



**HIPP
DESIGN +
CONSULTING**

SHOP DRAWING / SUBMITTAL ACTION TICKET

CLIENT NAME	Eli Lilly
CONSTRUCTION MANAGER	BE&K
PROJECT NAME	Project Concord DAP
PROJECT NUMBER	G22131

SUBMITTAL NUMBER: #140 (#238216.11-19)		SUBMITTAL TITLE: Duct Mounted Reheat Coils Rev 3 For Recor	
CONTRACTOR / VENDOR: Kirlin-Way Mechanical		DATE RECEIVED: 07SEP2023	
RECEIVED BY: NR		DATE DUE: 14SEP2023	
DISPOSITION: <input checked="" type="checkbox"/> NO EXCEPTION TAKEN <input type="checkbox"/> APPROVED AS NOTED <input type="checkbox"/> REVISE AND RESUBMIT <input type="checkbox"/> REJECTED, RESUBMIT <input type="checkbox"/> NOT REVIEWED		DISTRIBUTION: <input type="checkbox"/> CIVIL _____ <input type="checkbox"/> ARCHITECTURAL _____ <input type="checkbox"/> STRUCTURAL _____ <input checked="" type="checkbox"/> MECHANICAL _____ <input type="checkbox"/> PROCESS _____ <input type="checkbox"/> ELECTRICAL _____ <input type="checkbox"/> INST & CONT. _____ <input type="checkbox"/> PROJ. LEADER _____ <input type="checkbox"/> OTHER _____	

Checking is only for general conformance with the design concept of the project and general compliance with the information given in the contract documents. Any action shown is subject to the requirements of the plans and specifications. Contractor is responsible for dimensions which shall be confirmed and correlated at the job site; fabrication processes and techniques of construction, coordination of his work with that of all other trades, and the satisfactory performance of his work.

REMARKS:

HVAC: No Exception Taken

Adam J. Anderson, P.E.

 PRIMARY DISCIPLINE LEAD

Mechanical

 DISCIPLINE

15SEP2023

 DATE



BE&K Building Group
 710 Slater Rd, Suite 400
 Morrisville, North Carolina 27560
 P: (919) 781-0054

Project: 306232 Lilly — DAP, Warehouse Interface, + Central Corridor Fit Out
 1420 Concord Parkway South
 Concord, North Carolina 28027

Submittal #238216. 11-19.3 - Duct Mounted Reheat Coils 238216. 11 - Hydronic Air Coils

Revision	3	Submittal Manager	Laura Bates (BE&K Building Group - Raleigh)
Status	Open	Date Created	Jun 8, 2023
Issue Date	Jun 8, 2023	Spec Section	238216. 11 - Hydronic Air Coils
Responsible Contractor	Kirlin-Way Mechanical, LLC	Received From	Jonathon Ross (Kirlin-Way Mechanical, LLC)
Received Date	Jan 4, 2023	Submit By	Jan 6, 2023
Final Due Date	Sep 21, 2023	Lead Time	
		Cost Code	
Location		Type	Product Data
Approvers	Laura Bates (BE&K Building Group - Raleigh), Matt Schiebel (BE&K Building Group - Raleigh), Natasha R (Hipp Engineering & Consulting Inc), Laura Bates (BE&K Building Group - Raleigh), Matt Schiebel (BE&K Building Group - Raleigh)		
Ball in Court	Natasha R (Hipp Engineering & Consulting Inc)		
Distribution			
Description	Please address HIPPs comment and submit a cleaned up "For Record Submittal"		

Submittal Workflow

Name	Sent Date	Due Date	Returned Date	Response	Attachments
General Information Attachments					Submittal #078 - Duct Mounted Reheat Coils - For Record - (AAN).pdf
Jarred Goldsmith	Jun 23, 2023	Jun 30, 2023	Sep 7, 2023	Submitted	Record Submittal 005 - Duct Mounted Reheat Coils Rev4.pdf
Comment	For Record				
Laura Bates	Sep 7, 2023	Sep 14, 2023	Sep 7, 2023	Reviewed	
Comment	For record copy.				
Matt Schiebel	Sep 7, 2023	Sep 14, 2023		Pending	
Natasha R	Sep 7, 2023	Sep 14, 2023		Pending	
Laura Bates		Sep 21, 2023		Pending	
Matt Schiebel		Sep 21, 2023		Pending	



KIRLIN-WAY MECH PROJECT NAME: Eli-Lilly Concord

KIRLIN WAY MECH
SUBMITTAL NO: 005

SUBMITTAL DATA

ARCHITECT: Hansbury
223 S. Wilmington Street, Suite 200
Raleigh, NC 27601

Submittal Date: 9/07/23

ENGINEER: HIPP Design & Consulting
2301 Rexwoods Dr. #200
Raleigh, NC 27607

GENERAL CONTRACTOR: BE&K
SUBCONTRACTOR: Kirlin-Way

Specification Section:

Description:

Vendor / Supplier: Hoffman

Manufacturer: Heatcraft

Clarifications: Building 4&6 RH Coils

Deviations:

Substitutions:

Submittal Prepared By: Jarred Goldsmith
Phone: 704-451-8756
Email: Jgoldsmith@kirlinway.com

LOCATION: Raleigh, NC

DATE: 7/07/23

SALESMAN: Bennett Funderburk **ORDER #** 620.621.1315

PROJECT: *ELI LILLY Project Concord*

ENGINEER: *HIPP*

CONTRACTOR: *Kirlin Way Mechanical*

PRODUCT(S): *Reheat Coils Buildings 4&6, Rev.4*

MANUFACTURER(S): *Modine Heatcraft*

NOTE(S): *All runs adjusted for 705 ft. elevation.
RHC-4910B airflow corrected to 12,385cfm
For record*



SUBMITTAL DATA

APPROVAL REQUIRED

HOFFMAN • HOFFMAN, INC.

HVAC Manufacturers Representative

Website: www.hoffman-hoffman.com

Asheville, NC	(828) 296-0111	Charleston, SC	(843) 884-3201
Charlotte, NC	(704) 364-4700	Columbia, SC	(803) 765-9360
Raleigh, NC	(919) 781-8011	Greenville, SC	(864) 676-1888
Wilmington, NC	(910) 791-4775	Chesapeake, VA	(757) 548-1700
Chattanooga, TN	(423) 693-2890	Richmond, VA	(804) 272-1500
Knoxville, TN	(865) 540-9770	Roanoke, VA	(540) 725-8701

Corporate: Greensboro, NC (336) 292-8777

We have exercised care in the preparation of this submittal. We believe it satisfies our interpretation of the designer's intent and scope. It contains the list of materials, quantities, sizes, style and the finish as we propose to furnish for this job. Please examine and check carefully that all items are exactly as required and that our interpretation of the applicable plans and/or specifications are consistent with the design. Approval by the engineer and purchaser will be required before release of this equipment for production. If any discrepancies are discovered, please notify us as soon as possible.

COILCALC FLUID SCHEDULE

Customer		Date	7/7/2023 3:51:12 PM
Contact		By	Bennett Funderburk
Telephone		Company	Hoffman & Hoffman, Inc.
Email		Return telephone	9197818011
Project	(116102) Eli Lilly - Building 4 Concord	Email	bennett.funderburk@hoffman-hoffman.com
Saved run:	2656828, 2656829, 2656833, 2656834, 2656835, 2656836, 2656837, 2656838, 2656845, 2656839, 2656840, 2656849, 2656846, 2676435, 2676437, 2664471, 2656841, 2656842, 2656848, 2656850, 2656843, 2656844, 2676436, 2656851, 2654690, 2673130, 2748499, 2654691, 2654693, 2655021, 2655022, 2655023, 2675103, 2656816, 2656817, 2656818, 2656819, 2656820, 2656821, 2656823, 2676434, 2656824, 2656825, 2656852, 2656853, 2656854, 2656855		

Item	Model	Coils in bank	Face area [ft²]	Air flow [CFM]	Face vel [ft/min]	EAT db/wb [°F]	LAT db/wb [°F]	Capacity tot/sens [MBH]	APD [in wg]	Fluid	Fluid temp ent/lvg [°F]	Fluid pd [ft H2O]	Fluid vel [ft/s]	Fluid flow [gpm]
RHC-4101A	5MI1201B - 21.00 x 24.00	1	3.500	2,100	600.0	46.00 / N/A	71.06 / N/A	57.07/57.07	0.1855	Water	130.0/112.2	3.648	3.909	6.500
RHC-4101B	5MI1201C - 24.00 x 26.00	1	4.333	2,700	623.1	46.00 / N/A	71.16 / N/A	73.67/73.67	0.3091	Water	130.0/112.5	2.627	3.408	8.500
RHC-4101C	3MQ0602C - 12.00 x 13.00	1	1.083	700.0	646.2	46.00 / N/A	72.87 / N/A	20.40/20.40	0.2423	Water	130.0/108.3	2.397	2.342	1.900
RHC-4102, 4108, 4114, 4202, 4208	3MQ0902B - 7.000 x 6.000	1	0.2917	200.0	685.7	46.00 / N/A	71.15 / N/A	5.454/5.454	0.2601	Water	130.0/111.6	0.5058	1.109	0.6000
RHC-4103	3MI0602C - 10.00 x 10.00	1	0.6944	450.0	648.0	46.00 / N/A	73.12 / N/A	13.24/13.24	0.2435	Water	130.0/109.4	3.193	2.404	1.300
RHC-4107, 4122A, 4207	3MQ0802B - 12.00 x 14.00	1	1.167	800.0	685.7	46.00 / N/A	72.39 / N/A	22.90/22.90	0.2402	Water	130.0/108.9	3.185	2.712	2.200
RHC-4110, 4210	3MQ0602C - 8.000 x 10.00	1	0.5556	350.0	630.0	46.00 / N/A	72.66 / N/A	10.12/10.12	0.2320	Water	130.0/109.5	1.451	1.849	1.000
RHC-4112	5MI0702B - 24.00 x 24.00	1	4.000	2,500	625.0	46.00 / N/A	71.87 / N/A	70.13/70.13	0.2555	Water	130.0/109.1	2.956	2.726	6.800
RHC-4113A	3MI0702B - 10.00 x 12.00	1	0.8333	500.0	600.0	46.00 / N/A	72.02 / N/A	14.11/14.11	0.1749	Water	130.0/109.6	3.824	2.588	1.400
RHC-4113B, 4122B	5MI0802A - 18.00 x 24.00	1	3.000	2,000	666.7	46.00 / N/A	71.89 / N/A	56.15/56.15	0.1848	Water	130.0/109.0	4.305	3.247	5.400
RHC-4113C	5MI0802A - 18.00 x 21.00	1	2.625	1,800	685.7	46.00 / N/A	71.44 / N/A	49.65/49.65	0.1937	Water	130.0/109.5	3.419	2.947	4.900
RHC-4115	3MQ0602C - 8.000 x 8.000	1	0.4444	250.0	562.5	46.00 / N/A	72.73 / N/A	7.248/7.248	0.1912	Water	130.0/109.1	0.7281	1.294	0.7000
RHC-4117	3MI0702B - 10.00 x 13.00	1	0.9028	600.0	664.6	46.00 / N/A	71.31 / N/A	16.47/16.47	0.2087	Water	130.0/110.4	5.503	3.143	1.700

COILCALC FLUID SCHEDULE

Item	Model	Coils in bank	Face area [ft²]	Air flow [CFM]	Face vel [ft/min]	EAT db/wb [°F]	LAT db/wb [°F]	Capacity tot/sens [MBH]	APD [in wg]	Fluid	Fluid temp ent/lvg [°F]	Fluid pd [ft H2O]	Fluid vel [ft/s]	Fluid flow [gpm]
RHC-4118, 4203	3MI0602C - 10.00 x 10.00	1	0.6944	450.0	648.0	46.00 / N/A	73.12 / N/A	13.24/13.24	0.2435	Water	130.0/109.4	3.193	2.404	1.300
RHC-4120B	5MI0702B - 24.00 x 24.00	1	4.000	2,500	625.0	46.00 / N/A	71.87 / N/A	70.13/70.13	0.2555	Water	130.0/109.1	2.956	2.726	6.800
RHC-4120F, 4123F	3MQ0602C - 10.00 x 8.000	1	0.5556	350.0	630.0	46.00 / N/A	71.27 / N/A	9.591/9.591	0.2320	Water	130.0/110.6	0.6262	1.233	1.000
RHC-4121, 4213B	5MI0902A - 15.00 x 16.00	1	1.667	1,100	660.0	46.00 / N/A	72.38 / N/A	31.47/31.47	0.1993	Water	130.0/108.8	1.211	1.804	3.000
RHC-4123B	5MI0702B - 24.00 x 24.00	1	4.000	2,450	612.5	46.00 / N/A	72.06 / N/A	69.23/69.23	0.2467	Water	130.0/109.1	2.880	2.686	6.700
RHC-4124	3MI0702B - 12.00 x 13.00	1	1.083	700.0	646.2	46.00 / N/A	71.69 / N/A	19.50/19.50	0.1988	Water	130.0/109.2	7.107	3.513	1.900
RHC-4211A	3MI1201C - 14.00 x 14.00	1	1.361	850.0	624.5	46.00 / N/A	71.14 / N/A	23.18/23.18	0.1824	Water	130.0/109.6	5.793	4.252	2.300
RHC-4211B	5MI0802A - 18.00 x 24.00	1	3.000	2,100	700.0	46.00 / N/A	71.51 / N/A	58.09/58.09	0.2006	Water	130.0/109.4	4.736	3.428	5.700
RHC-4211C	5MI0802A - 24.00 x 24.00	1	4.000	2,700	675.0	46.00 / N/A	71.56 / N/A	74.85/74.85	0.1887	Water	130.0/109.3	3.352	2.927	7.300
RHC-4212	3MQ0802B - 12.00 x 14.00	1	1.167	800.0	685.7	46.00 / N/A	72.39 / N/A	22.90/22.90	0.2402	Water	130.0/108.9	3.185	2.712	2.200
RHC-4213A	3MQ0702B - 8.000 x 12.00	1	0.6667	400.0	600.0	46.00 / N/A	71.41 / N/A	11.02/11.02	0.1749	Water	130.0/109.7	1.815	2.034	1.100
RHC-4901A	5MQ1101B - 45.00 x 50.00	1	15.63	10,740	687.4	46.00 / N/A	66.99 / N/A	244.5/244.5	0.2193	Water	130.0/108.9	3.282	3.533	23.50
RHC-4901B,D; RHC-4902B; RHC-4904B,C; RHC-4905B	5MQ1101B - 45.00 x 50.00	1	15.63	10,740	687.4	46.00 / N/A	66.99 / N/A	244.5/244.5	0.2193	Water	130.0/108.9	3.282	3.533	23.50
RHC-4901B,D; RHC-4902B; RHC-4904B,C; RHC-4905B -COPY	5MQ1101B - 45.00 x 50.00	1	15.63	10,740	687.4	46.00 / N/A	66.99 / N/A	244.5/244.5	0.2193	Water	130.0/108.9	3.282	3.533	23.50
RHC-4901C	5MQ1001C - 45.00 x 55.00	1	17.19	12,000	698.2	46.00 / N/A	66.74 / N/A	270.0/270.0	0.2891	Water	130.0/109.0	4.082	3.909	26.00
RHC-4902A	5MQ1001B - 46.50 x 60.00	1	19.38	13,500	696.8	46.00 / N/A	66.04 / N/A	293.3/293.3	0.2117	Water	130.0/110.7	4.975	4.116	30.80
RHC-4902C	5MQ1001C - 34.50 x 44.00	1	10.54	7,230	685.8	46.00 / N/A	66.02 / N/A	157.0/157.0	0.2797	Water	130.0/109.8	1.831	2.698	15.70
RHC-4902D	5MQ1001C - 48.00 x 48.00	1	18.83	12,810	680.2	46.00 / N/A	67.11 / N/A	293.3/293.3	0.2754	Water	130.0/108.6	5.218	4.165	27.70

COILCALC FLUID SCHEDULE

Item	Model	Coils in bank	Face area [ft²]	Air flow [CFM]	Face vel [ft/min]	EAT db/wb [°F]	LAT db/wb [°F]	Capacity tot/sens [MBH]	APD [in wg]	Fluid	Fluid temp ent/lvg [°F]	Fluid pd [ft H2O]	Fluid vel [ft/s]	Fluid flow [gpm]
	56.50													
RHC-4903A,D	5MI1101B - 33.00 x 36.00	1	8.250	5,660	686.1	46.00 / N/A	67.10 / N/A	129.5/129.5	0.2186	Water	130.0/108.7	3.571	3.699	12.30
RHC-4903B	5MI1101B - 33.00 x 36.00	1	8.250	5,660	686.1	46.00 / N/A	67.10 / N/A	129.5/129.5	0.2186	Water	130.0/108.7	3.571	3.699	12.30
RHC-4903C	5MQ1101B - 45.00 x 53.00	1	16.56	11,580	699.2	46.00 / N/A	66.95 / N/A	263.1/263.1	0.2255	Water	130.0/108.8	3.778	3.774	25.10
RHC-4904A	5MQ1101B - 43.50 x 45.00	1	13.59	9,200	676.8	46.00 / N/A	66.62 / N/A	205.7/205.7	0.2138	Water	130.0/108.8	2.300	2.947	19.60
RHC-4904D	5MQ1101B - 46.50 x 61.00	1	19.70	13,740	697.5	46.00 / N/A	67.08 / N/A	314.1/314.1	0.2246	Water	130.0/108.6	4.680	3.969	29.70
RHC-4905A	5MQ1101B - 46.50 x 62.00	1	20.02	13,980	698.3	46.00 / N/A	67.10 / N/A	319.9/319.9	0.2250	Water	130.0/108.6	4.855	4.036	30.20
RHC-4905C	5MQ1101B - 40.50 x 43.00	1	12.09	8,460	699.5	46.00 / N/A	66.16 / N/A	184.9/184.9	0.2257	Water	130.0/109.6	1.995	2.751	18.30
RHC-4905D	5MQ1101B - 46.50 x 60.00	1	19.38	13,540	698.8	46.00 / N/A	67.03 / N/A	308.8/308.8	0.2253	Water	130.0/108.7	4.538	3.916	29.30
RHC-4906A	5MI1101B - 34.50 x 38.00	1	9.104	6,320	694.2	46.00 / N/A	67.29 / N/A	145.9/145.9	0.2229	Water	130.0/108.8	4.658	4.180	13.90
RHC-4906B	5MI1101B - 34.50 x 38.00	1	9.104	6,320	694.2	46.00 / N/A	67.29 / N/A	145.9/145.9	0.2229	Water	130.0/108.8	4.658	4.180	13.90
RHC-4906C	5MQ1101B - 36.00 x 43.00	1	10.75	7,320	680.9	46.00 / N/A	67.48 / N/A	170.5/170.5	0.2159	Water	130.0/110.8	3.244	3.608	18.00
RHC-4906D	5MI1101B - 34.50 x 38.00	1	9.104	6,320	694.2	46.00 / N/A	67.29 / N/A	145.9/145.9	0.2229	Water	130.0/108.8	4.658	4.180	13.90
RHC-4910A	5MQ1101B - 45.00 x 54.00	1	16.88	11,695	693.0	46.00 / N/A	67.05 / N/A	267.0/267.0	0.2223	Water	130.0/108.7	3.858	3.804	25.30
RHC-4910B	5MQ1101B - 45.00 x 57.00	1	17.81	12,385	695.3	46.00 / N/A	67.13 / N/A	283.7/283.7	0.2235	Water	130.0/108.5	4.341	4.014	26.70
RHC-4910C	5MQ1001B - 52.50 x 69.00	1	25.16	17,490	695.3	46.00 / N/A	66.07 / N/A	380.7/380.7	0.2110	Water	130.0/109.5	6.606	4.522	37.60
RHC-4910D	5MQ1001B - 46.50 x 69.00	1	22.28	15,110	678.1	46.00 / N/A	66.26 / N/A	332.0/332.0	0.2024	Water	130.0/109.5	5.842	4.370	32.70

COILCALC FLUID VERIFICATION

Customer	Date	7/7/2023 3:51:06 PM
Contact	By	Bennett Funderburk
Telephone	Company	Hoffman & Hoffman, Inc.
Email	Return telephone	9197818011
Project (116102) Eli Lilly - Building 4 Concord	Email	bennett.funderburk@hoffman-hoffman.com

Saved run: 2656828
Item/Description RHC-4101A

CONSTRUCTION DATA

Model	5M11201B - 21 x 24	Connection material	Carbon Steel
Coils per bank	1	Connection type	MPT
Coil duty	Heat-Return Bend	Connection rotation	None
Tube OD [in]	5/8	Connection size [in]	1.50
Fin spacing [/in]	12.00	Connection qty	1
Rows	1	Connection end	Same End
Fin surface	B		
Fin height x length [in]	21.00 x 24.00		
Circuiting	One Sixth		
Tube material [in]	0.035 Copper		
Fin material [in]	0.0095 Aluminum		

THERMODYNAMIC

AIR SIDE			FLUID SIDE		
Face velocity (Standard)	[ft/min]	600.0	Fluid		Water
Air flow (Standard)	[cfm]	2,100	Fouling factor		0
Altitude	[ft]	705.0	Entering fluid temp.	[°F]	130.0
EAT db	[°F]	46.00	Fluid flow	[gpm]	6.500
Fin fouling factor		0			

OPTIONS/SPECIALTIES

Casing material	Galvanized Steel
Casing type	Flanged
Coating	None
Hand	Left
Vent / Drain	.50 FPT on Face

RESULTS

CONSTRUCTION			AIR SIDE		
Weight	[lbs]	41.79	Total / Sensible capacity	[MBH]	57.07 / 57.07
Weight with fluid	[lbs]	50.25	LAT db	[°F]	71.06
Face area	[ft²]	3.500	Air pressure drop (Standard)	[in wg]	0.1855
			FLUID SIDE		
			Fluid pressure drop	[ft H2O]	3.648
			Fluid flow rate	[gpm]	6.500
			Leaving fluid temp.	[°F]	112.2
			Internal volume	[in³]	237.0
			Tubeside velocity	[ft/s]	3.909

NOTES FROM CALCULATIONS

A - Certified in accordance with the AHRI Forced-Circulation Air-Cooling and Air-Heating Coils Certification Program which is based on AHRI Standard 410 within the Range of Standard Rating Conditions listed in Table 1 of the Standard. Certified units may be found in the AHRI Directory at www.ahridirectory.org.

K - Face and row spacing on 1.5 inch centers.

L - Coil rating valid for Heatcraft coils only.

USER NOTES

COILCALC FLUID VERIFICATION

Customer	Date	7/7/2023 3:51:06 PM
Contact	By	Bennett Funderburk
Telephone	Company	Hoffman & Hoffman, Inc.
Email	Return telephone	9197818011
Project (116102) Eli Lilly - Building 4 Concord	Email	bennett.funderburk@hoffman-hoffman.com

Saved run: 2656829
Item/Description RHC-4101B

CONSTRUCTION DATA

Model	5M11201C - 24 x 26	Connection material	Carbon Steel
Coils per bank	1	Connection type	MPT
Coil duty	Heat-Return Bend	Connection rotation	None
Tube OD [in]	5/8	Connection size [in]	1.50
Fin spacing [/in]	12.00	Connection qty	1
Rows	1	Connection end	Same End
Fin surface	C		
Fin height x length [in]	24.00 x 26.00		
Circuiting	One Sixth		
Tube material [in]	0.035 Copper		
Fin material [in]	0.0095 Aluminum		

THERMODYNAMIC

AIR SIDE			FLUID SIDE		
Face velocity (Standard)	[ft/min]	623.1	Fluid		Water
Air flow (Standard)	[cfm]	2,700	Fouling factor		0
Altitude	[ft]	705.0	Entering fluid temp.	[°F]	130.0
EAT db	[°F]	46.00	Fluid flow	[gpm]	8.500
Fin fouling factor		0			

OPTIONS/SPECIALTIES

Casing material	Galvanized Steel
Casing type	Flanged
Coating	None
Hand	Left
Vent / Drain	.50 FPT on Face

RESULTS

CONSTRUCTION			AIR SIDE		
Weight	[lbs]	48.50	Total / Sensible capacity	[MBH]	73.67 / 73.67
Weight with fluid	[lbs]	58.44	LAT db	[°F]	71.16
Face area	[ft²]	4.333	Air pressure drop (Standard)	[in wg]	0.3091
			FLUID SIDE		
			Fluid pressure drop	[ft H2O]	2.627
			Fluid flow rate	[gpm]	8.500
			Leaving fluid temp.	[°F]	112.5
			Internal volume	[in³]	278.3
			Tubeside velocity	[ft/s]	3.408

NOTES FROM CALCULATIONS

A - Certified in accordance with the AHRI Forced-Circulation Air-Cooling and Air-Heating Coils Certification Program which is based on AHRI Standard 410 within the Range of Standard Rating Conditions listed in Table 1 of the Standard. Certified units may be found in the AHRI Directory at www.ahridirectory.org.

K - Face and row spacing on 1.5 inch centers.

L - Coil rating valid for Heatcraft coils only.

USER NOTES

COILCALC FLUID VERIFICATION

Customer	Date	7/7/2023 3:51:06 PM
Contact	By	Bennett Funderburk
Telephone	Company	Hoffman & Hoffman, Inc.
Email	Return telephone	9197818011
Project (116102) Eli Lilly - Building 4 Concord	Email	bennett.funderburk@hoffman-hoffman.com

Saved run: 2656833
Item/Description RHC-4101C

CONSTRUCTION DATA

Model	3MQ0602C - 12 x 13	Connection material	Carbon Steel
Coils per bank	1	Connection type	MPT
Coil duty	Heat-Return Bend	Connection rotation	None
Tube OD [in]	3/8	Connection size [in]	1.50
Fin spacing [/in]	6.000	Connection qty	1
Rows	2	Connection end	Same End
Fin surface	C		
Fin height x length [in]	12.00 x 13.00		
Circuiting	Quarter		
Tube material [in]	0.030 Copper		
Fin material [in]	0.0095 Aluminum		

THERMODYNAMIC

AIR SIDE			FLUID SIDE		
Face velocity (Standard)	[ft/min]	646.2	Fluid		Water
Air flow (Standard)	[cfm]	700.0	Fouling factor		0
Altitude	[ft]	705.0	Entering fluid temp.	[°F]	130.0
EAT db	[°F]	46.00	Fluid flow	[gpm]	1.900
Fin fouling factor		0			

OPTIONS/SPECIALTIES

Casing material	Galvanized Steel
Casing type	Flanged
Coating	None
Hand	Right
Vent / Drain	.50 FPT on Face

RESULTS

CONSTRUCTION			AIR SIDE		
Weight	[lbs]	20.02	Total / Sensible capacity	[MBH]	20.40 / 20.40
Weight with fluid	[lbs]	24.04	LAT db	[°F]	72.87
Face area	[ft²]	1.083	Air pressure drop (Standard)	[in wg]	0.2423
			FLUID SIDE		
			Fluid pressure drop	[ft H2O]	2.397
			Fluid flow rate	[gpm]	1.900
			Leaving fluid temp.	[°F]	108.3
			Internal volume	[in³]	112.6
			Tubeside velocity	[ft/s]	2.342

NOTES FROM CALCULATIONS

C - Coil is NOT certified by AHRI. Coil is within the scope of the AHRI Forced-Circulation Air-Cooling and Air-Heating Coils Certification Program.
 L - Coil rating valid for Heatcraft coils only.

USER NOTES

COILCALC FLUID VERIFICATION

Customer	Date	7/7/2023 3:51:07 PM
Contact	By	Bennett Funderburk
Telephone	Company	Hoffman & Hoffman, Inc.
Email	Return telephone	9197818011
Project (116102) Eli Lilly - Building 4 Concord	Email	bennett.funderburk@hoffman-hoffman.com

Saved run: 2656834
Item/Description RHC-4102, 4108, 4114, 4202, 4208

CONSTRUCTION DATA

Model	3MQ0902B - 7 x 6	Connection material	Carbon Steel
Coils per bank	1	Connection type	MPT
Coil duty	Heat-Return Bend	Connection rotation	None
Tube OD [in]	3/8	Connection size [in]	1.50
Fin spacing [/in]	9.000	Connection qty	1
Rows	2	Connection end	Same End
Fin surface	B		
Fin height x length [in]	7.000 x 6.000		
Circuiting	Quarter		
Tube material [in]	0.030 Copper		
Fin material [in]	0.0095 Aluminum		

THERMODYNAMIC

AIR SIDE			FLUID SIDE		
Face velocity (Standard) [ft/min]	685.7		Fluid		Water
Air flow (Standard) [cfm]	200.0		Fouling factor		0
Altitude [ft]	705.0		Entering fluid temp. [°F]		130.0
EAT db [°F]	46.00		Fluid flow [gpm]		0.6000
Fin fouling factor	0				

OPTIONS/SPECIALTIES

Casing material	Galvanized Steel
Casing type	Flanged
Coating	None
Hand	Left
Vent / Drain	.50 FPT on Face

RESULTS

CONSTRUCTION			AIR SIDE		
Weight [lbs]	9.976		Total / Sensible capacity [MBH]		5.454 / 5.454
Weight with fluid [lbs]	12.24		LAT db [°F]		71.15
Face area [ft²]	0.2917		Air pressure drop (Standard) [in wg]		0.2601
			FLUID SIDE		
			Fluid pressure drop [ft H2O]		0.5058
			Fluid flow rate [gpm]		0.6000
			Leaving fluid temp. [°F]		111.6
			Internal volume [in³]		63.58
			Tubeside velocity [ft/s]		1.109

NOTES FROM CALCULATIONS

C - Coil is NOT certified by AHRI. Coil is within the scope of the AHRI Forced-Circulation Air-Cooling and Air-Heating Coils Certification Program.

L - Coil rating valid for Heatcraft coils only.

USER NOTES

COILCALC FLUID VERIFICATION

Customer	Date	7/7/2023 3:51:07 PM
Contact	By	Bennett Funderburk
Telephone	Company	Hoffman & Hoffman, Inc.
Email	Return telephone	9197818011
Project (116102) Eli Lilly - Building 4 Concord	Email	bennett.funderburk@hoffman-hoffman.com

Saved run: 2656835
Item/Description RHC-4103

CONSTRUCTION DATA

Model	3MI0602C - 10 x 10	Connection material	Carbon Steel
Coils per bank	1	Connection type	MPT
Coil duty	Heat-Return Bend	Connection rotation	None
Tube OD [in]	3/8	Connection size [in]	1.50
Fin spacing [/in]	6.000	Connection qty	1
Rows	2	Connection end	Same End
Fin surface	C		
Fin height x length [in]	10.00 x 10.00		
Circuiting	One Sixth		
Tube material [in]	0.030 Copper		
Fin material [in]	0.0095 Aluminum		

THERMODYNAMIC

AIR SIDE			FLUID SIDE		
Face velocity (Standard)	[ft/min]	648.0	Fluid		Water
Air flow (Standard)	[cfm]	450.0	Fouling factor		0
Altitude	[ft]	705.0	Entering fluid temp.	[°F]	130.0
EAT db	[°F]	46.00	Fluid flow	[gpm]	1.300
Fin fouling factor		0			

OPTIONS/SPECIALTIES

Casing material	Galvanized Steel
Casing type	Flanged
Coating	None
Hand	Right
Vent / Drain	.50 FPT on Face

RESULTS

CONSTRUCTION			AIR SIDE		
Weight	[lbs]	15.54	Total / Sensible capacity	[MBH]	13.24 / 13.24
Weight with fluid	[lbs]	18.83	LAT db	[°F]	73.12
Face area	[ft²]	0.6944	Air pressure drop (Standard)	[in wg]	0.2435
			FLUID SIDE		
			Fluid pressure drop	[ft H2O]	3.193
			Fluid flow rate	[gpm]	1.300
			Leaving fluid temp.	[°F]	109.4
			Internal volume	[in³]	92.24
			Tubeside velocity	[ft/s]	2.404

NOTES FROM CALCULATIONS

C - Coil is NOT certified by AHRI. Coil is within the scope of the AHRI Forced-Circulation Air-Cooling and Air-Heating Coils Certification Program.
 L - Coil rating valid for Heatcraft coils only.

USER NOTES

COILCALC FLUID VERIFICATION

Customer	Date	7/7/2023 3:51:07 PM
Contact	By	Bennett Funderburk
Telephone	Company	Hoffman & Hoffman, Inc.
Email	Return telephone	9197818011
Project (116102) Eli Lilly - Building 4 Concord	Email	bennett.funderburk@hoffman-hoffman.com

Saved run: 2656836
Item/Description RHC-4107, 4122A, 4207

CONSTRUCTION DATA

Model	3MQ0802B - 12 x 14	Connection material	Carbon Steel
Coils per bank	1	Connection type	MPT
Coil duty	Heat-Return Bend	Connection rotation	None
Tube OD [in]	3/8	Connection size [in]	1.50
Fin spacing [/in]	8.000	Connection qty	1
Rows	2	Connection end	Same End
Fin surface	B		
Fin height x length [in]	12.00 x 14.00		
Circuiting	Quarter		
Tube material [in]	0.030 Copper		
Fin material [in]	0.0095 Aluminum		

THERMODYNAMIC

AIR SIDE			FLUID SIDE		
Face velocity (Standard)	[ft/min]	685.7	Fluid		Water
Air flow (Standard)	[cfm]	800.0	Fouling factor		0
Altitude	[ft]	705.0	Entering fluid temp.	[°F]	130.0
EAT db	[°F]	46.00	Fluid flow	[gpm]	2.200
Fin fouling factor		0			

OPTIONS/SPECIALTIES

Casing material	Galvanized Steel
Casing type	Flanged
Coating	None
Hand	Left
Vent / Drain	.50 FPT on Face

RESULTS

CONSTRUCTION			AIR SIDE		
Weight	[lbs]	21.41	Total / Sensible capacity	[MBH]	22.90 / 22.90
Weight with fluid	[lbs]	25.58	LAT db	[°F]	72.39
Face area	[ft²]	1.167	Air pressure drop (Standard)	[in wg]	0.2402
			FLUID SIDE		
			Fluid pressure drop	[ft H2O]	3.185
			Fluid flow rate	[gpm]	2.200
			Leaving fluid temp.	[°F]	108.9
			Internal volume	[in³]	116.8
			Tubeside velocity	[ft/s]	2.712

NOTES FROM CALCULATIONS

C - Coil is NOT certified by AHRI. Coil is within the scope of the AHRI Forced-Circulation Air-Cooling and Air-Heating Coils Certification Program.

L - Coil rating valid for Heatcraft coils only.

USER NOTES

COILCALC FLUID VERIFICATION

Customer	Date	7/7/2023 3:51:07 PM
Contact	By	Bennett Funderburk
Telephone	Company	Hoffman & Hoffman, Inc.
Email	Return telephone	9197818011
Project (116102) Eli Lilly - Building 4 Concord	Email	bennett.funderburk@hoffman-hoffman.com

Saved run: 2656837
Item/Description RHC-4110, 4210

CONSTRUCTION DATA

Model	3MQ0602C - 8 x 10	Connection material	Carbon Steel
Coils per bank	1	Connection type	MPT
Coil duty	Heat-Return Bend	Connection rotation	None
Tube OD [in]	3/8	Connection size [in]	1.50
Fin spacing [/in]	6.000	Connection qty	1
Rows	2	Connection end	Same End
Fin surface	C		
Fin height x length [in]	8.000 x 10.00		
Circuiting	Quarter		
Tube material [in]	0.030 Copper		
Fin material [in]	0.0095 Aluminum		

THERMODYNAMIC

AIR SIDE			FLUID SIDE		
Face velocity (Standard) [ft/min]	630.0		Fluid		Water
Air flow (Standard) [cfm]	350.0		Fouling factor		0
Altitude [ft]	705.0		Entering fluid temp. [°F]		130.0
EAT db [°F]	46.00		Fluid flow [gpm]		1.000
Fin fouling factor	0				

OPTIONS/SPECIALTIES

Casing material	Galvanized Steel
Casing type	Flanged
Coating	None
Hand	Left
Vent / Drain	.50 FPT on Face

RESULTS

CONSTRUCTION			AIR SIDE		
Weight [lbs]	13.21		Total / Sensible capacity [MBH]		10.12 / 10.12
Weight with fluid [lbs]	15.94		LAT db [°F]		72.66
Face area [ft²]	0.5556		Air pressure drop (Standard) [in wg]		0.2320
			FLUID SIDE		
			Fluid pressure drop [ft H2O]		1.451
			Fluid flow rate [gpm]		1.000
			Leaving fluid temp. [°F]		109.5
			Internal volume [in³]		76.37
			Tubeside velocity [ft/s]		1.849

NOTES FROM CALCULATIONS

C - Coil is NOT certified by AHRI. Coil is within the scope of the AHRI Forced-Circulation Air-Cooling and Air-Heating Coils Certification Program.
 L - Coil rating valid for Heatcraft coils only.

USER NOTES

COILCALC FLUID VERIFICATION

Customer	Date	7/7/2023 3:51:07 PM
Contact	By	Bennett Funderburk
Telephone	Company	Hoffman & Hoffman, Inc.
Email	Return telephone	9197818011
Project (116102) Eli Lilly - Building 4 Concord	Email	bennett.funderburk@hoffman-hoffman.com

Saved run: 2656838
Item/Description RHC-4112

CONSTRUCTION DATA

Model	5MI0702B - 24 x 24	Connection material	Carbon Steel
Coils per bank	1	Connection type	MPT
Coil duty	Heat-Return Bend	Connection rotation	None
Tube OD [in]	5/8	Connection size [in]	1.50
Fin spacing [/in]	7.000	Connection qty	1
Rows	2	Connection end	Same End
Fin surface	B		
Fin height x length [in]	24.00 x 24.00		
Circuiting	One Sixth		
Tube material [in]	0.035 Copper		
Fin material [in]	0.0095 Aluminum		

THERMODYNAMIC

AIR SIDE			FLUID SIDE		
Face velocity (Standard) [ft/min]	625.0		Fluid		Water
Air flow (Standard) [cfm]	2,500		Fouling factor		0
Altitude [ft]	705.0		Entering fluid temp. [°F]		130.0
EAT db [°F]	46.00		Fluid flow [gpm]		6.800
Fin fouling factor	0				

OPTIONS/SPECIALTIES

Casing material	Galvanized Steel
Casing type	Flanged
Coating	None
Hand	Left
Vent / Drain	.50 FPT on Face

RESULTS

CONSTRUCTION			AIR SIDE		
Weight [lbs]	56.32		Total / Sensible capacity [MBH]		70.13 / 70.13
Weight with fluid [lbs]	70.27		LAT db [°F]		71.87
Face area [ft²]	4.000		Air pressure drop (Standard) [in wg]		0.2555
			FLUID SIDE		
			Fluid pressure drop [ft H2O]		2.956
			Fluid flow rate [gpm]		6.800
			Leaving fluid temp. [°F]		109.1
			Internal volume [in³]		390.9
			Tubeside velocity [ft/s]		2.726

NOTES FROM CALCULATIONS

A - Certified in accordance with the AHRI Forced-Circulation Air-Cooling and Air-Heating Coils Certification Program which is based on AHRI Standard 410 within the Range of Standard Rating Conditions listed in Table 1 of the Standard. Certified units may be found in the AHRI Directory at www.ahridirectory.org.

L - Coil rating valid for Heatcraft coils only.

USER NOTES

COILCALC FLUID VERIFICATION

Customer		Date	7/7/2023 3:51:07 PM
Contact		By	Bennett Funderburk
Telephone		Company	Hoffman & Hoffman, Inc.
Email		Return telephone	9197818011
Project	(116102) Eli Lilly - Building 4 Concord	Email	bennett.funderburk@hoffman-hoffman.com

Saved run: 2656845
Item/Description RHC-4113A

CONSTRUCTION DATA

Model	3MI0702B - 10 x 12	Connection material	Carbon Steel
Coils per bank	1	Connection type	MPT
Coil duty	Heat-Return Bend	Connection rotation	None
Tube OD [in]	3/8	Connection size [in]	1.50
Fin spacing [in]	7.000	Connection qty	1
Rows	2	Connection end	Same End
Fin surface	B		
Fin height x length [in]	10.00 x 12.00		
Circuiting	One Sixth		
Tube material [in]	0.030 Copper		
Fin material [in]	0.0095 Aluminum		

THERMODYNAMIC

AIR SIDE			FLUID SIDE		
Face velocity (Standard)	[ft/min]	600.0	Fluid		Water
Air flow (Standard)	[cfm]	500.0	Fouling factor		0
Altitude	[ft]	705.0	Entering fluid temp.	[°F]	130.0
EAT db	[°F]	46.00	Fluid flow	[gpm]	1.400
Fin fouling factor		0			

OPTIONS/SPECIALTIES

Casing material	Galvanized Steel
Casing type	Flanged
Coating	None
Hand	Left
Vent / Drain	.50 FPT on Face

RESULTS

CONSTRUCTION			AIR SIDE		
Weight	[lbs]	17.11	Total / Sensible capacity	[MBH]	14.11 / 14.11
Weight with fluid	[lbs]	20.52	LAT db	[°F]	72.02
Face area	[ft²]	0.8333	Air pressure drop (Standard)	[in wg]	0.1749
			FLUID SIDE		
			Fluid pressure drop	[ft H2O]	3.824
			Fluid flow rate	[gpm]	1.400
			Leaving fluid temp.	[°F]	109.6
			Internal volume	[in³]	95.71
			Tubeside velocity	[ft/s]	2.588

NOTES FROM CALCULATIONS

C - Coil is NOT certified by AHRI. Coil is within the scope of the AHRI Forced-Circulation Air-Cooling and Air-Heating Coils Certification Program.
L - Coil rating valid for Heatcraft coils only.

USER NOTES

COILCALC FLUID VERIFICATION

Customer	Date	7/7/2023 3:51:07 PM
Contact	By	Bennett Funderburk
Telephone	Company	Hoffman & Hoffman, Inc.
Email	Return telephone	9197818011
Project (116102) Eli Lilly - Building 4 Concord	Email	bennett.funderburk@hoffman-hoffman.com

Saved run: 2656839
Item/Description RHC-4113B, 4122B

CONSTRUCTION DATA

Model	5MI0802A - 18 x 24	Connection material	Carbon Steel
Coils per bank	1	Connection type	MPT
Coil duty	Heat-Return Bend	Connection rotation	None
Tube OD [in]	5/8	Connection size [in]	1.50
Fin spacing [/in]	8.000	Connection qty	1
Rows	2	Connection end	Same End
Fin surface	A		
Fin height x length [in]	18.00 x 24.00		
Circuiting	One Sixth		
Tube material [in]	0.035 Copper		
Fin material [in]	0.0095 Aluminum		

THERMODYNAMIC

AIR SIDE			FLUID SIDE		
Face velocity (Standard)	[ft/min]	666.7	Fluid		Water
Air flow (Standard)	[cfm]	2,000	Fouling factor		0
Altitude	[ft]	705.0	Entering fluid temp.	[°F]	130.0
EAT db	[°F]	46.00	Fluid flow	[gpm]	5.400
Fin fouling factor		0			

OPTIONS/SPECIALTIES

Casing material	Galvanized Steel
Casing type	Flanged
Coating	None
Hand	Right
Vent / Drain	.50 FPT on Face

RESULTS

CONSTRUCTION			AIR SIDE		
Weight	[lbs]	45.45	Total / Sensible capacity	[MBH]	56.15 / 56.15
Weight with fluid	[lbs]	56.01	LAT db	[°F]	71.89
Face area	[ft²]	3.000	Air pressure drop (Standard)	[in wg]	0.1848
			FLUID SIDE		
			Fluid pressure drop	[ft H2O]	4.305
			Fluid flow rate	[gpm]	5.400
			Leaving fluid temp.	[°F]	109.0
			Internal volume	[in³]	296.0
			Tubeside velocity	[ft/s]	3.247

NOTES FROM CALCULATIONS

A - Certified in accordance with the AHRI Forced-Circulation Air-Cooling and Air-Heating Coils Certification Program which is based on AHRI Standard 410 within the Range of Standard Rating Conditions listed in Table 1 of the Standard. Certified units may be found in the AHRI Directory at www.ahridirectory.org.

L - Coil rating valid for Heatcraft coils only.

USER NOTES

COILCALC FLUID VERIFICATION

Customer	Date	7/7/2023 3:51:07 PM
Contact	By	Bennett Funderburk
Telephone	Company	Hoffman & Hoffman, Inc.
Email	Return telephone	9197818011
Project (116102) Eli Lilly - Building 4 Concord	Email	bennett.funderburk@hoffman-hoffman.com

Saved run: 2656840
Item/Description RHC-4113C

CONSTRUCTION DATA

Model	5MI0802A - 18 x 21	Connection material	Carbon Steel
Coils per bank	1	Connection type	MPT
Coil duty	Heat-Return Bend	Connection rotation	None
Tube OD [in]	5/8	Connection size [in]	1.50
Fin spacing [/in]	8.000	Connection qty	1
Rows	2	Connection end	Same End
Fin surface	A		
Fin height x length [in]	18.00 x 21.00		
Circuiting	One Sixth		
Tube material [in]	0.035 Copper		
Fin material [in]	0.0095 Aluminum		

THERMODYNAMIC

AIR SIDE			FLUID SIDE		
Face velocity (Standard) [ft/min]	685.7		Fluid		Water
Air flow (Standard) [cfm]	1,800		Fouling factor		0
Altitude [ft]	705.0		Entering fluid temp. [°F]		130.0
EAT db [°F]	46.00		Fluid flow [gpm]		4.900
Fin fouling factor	0				

OPTIONS/SPECIALTIES

Casing material	Galvanized Steel
Casing type	Flanged
Coating	None
Hand	Left
Vent / Drain	.50 FPT on Face

RESULTS

CONSTRUCTION			AIR SIDE		
Weight [lbs]	41.77		Total / Sensible capacity [MBH]		49.65 / 49.65
Weight with fluid [lbs]	51.42		LAT db [°F]		71.44
Face area [ft²]	2.625		Air pressure drop (Standard) [in wg]		0.1937
			FLUID SIDE		
			Fluid pressure drop [ft H2O]		3.419
			Fluid flow rate [gpm]		4.900
			Leaving fluid temp. [°F]		109.5
			Internal volume [in³]		270.4
			Tubeside velocity [ft/s]		2.947

NOTES FROM CALCULATIONS

A - Certified in accordance with the AHRI Forced-Circulation Air-Cooling and Air-Heating Coils Certification Program which is based on AHRI Standard 410 within the Range of Standard Rating Conditions listed in Table 1 of the Standard. Certified units may be found in the AHRI Directory at www.ahridirectory.org.

L - Coil rating valid for Heatcraft coils only.

USER NOTES

COILCALC FLUID VERIFICATION

Customer	Date	7/7/2023 3:51:07 PM
Contact	By	Bennett Funderburk
Telephone	Company	Hoffman & Hoffman, Inc.
Email	Return telephone	9197818011
Project (116102) Eli Lilly - Building 4 Concord	Email	bennett.funderburk@hoffman-hoffman.com

Saved run: 2656849
Item/Description RHC-4115

CONSTRUCTION DATA

Model	3MQ0602C - 8 x 8	Connection material	Carbon Steel
Coils per bank	1	Connection type	MPT
Coil duty	Heat-Return Bend	Connection rotation	None
Tube OD [in]	3/8	Connection size [in]	1.50
Fin spacing [/in]	6.000	Connection qty	1
Rows	2	Connection end	Same End
Fin surface	C		
Fin height x length [in]	8.000 x 8.000		
Circuiting	Quarter		
Tube material [in]	0.030 Copper		
Fin material [in]	0.0095 Aluminum		

THERMODYNAMIC

AIR SIDE			FLUID SIDE		
Face velocity (Standard) [ft/min]	562.5		Fluid		Water
Air flow (Standard) [cfm]	250.0		Fouling factor		0
Altitude [ft]	705.0		Entering fluid temp. [°F]		130.0
EAT db [°F]	46.00		Fluid flow [gpm]		0.7000
Fin fouling factor	0				

OPTIONS/SPECIALTIES

Casing material	Galvanized Steel
Casing type	Flanged
Coating	None
Hand	Left
Vent / Drain	.50 FPT on Face

RESULTS

CONSTRUCTION			AIR SIDE		
Weight [lbs]	12.00		Total / Sensible capacity [MBH]		7.248 / 7.248
Weight with fluid [lbs]	14.62		LAT db [°F]		72.73
Face area [ft²]	0.4444		Air pressure drop (Standard) [in wg]		0.1912
			FLUID SIDE		
			Fluid pressure drop [ft H2O]		0.7281
			Fluid flow rate [gpm]		0.7000
			Leaving fluid temp. [°F]		109.1
			Internal volume [in³]		73.59
			Tubeside velocity [ft/s]		1.294

NOTES FROM CALCULATIONS

C - Coil is NOT certified by AHRI. Coil is within the scope of the AHRI Forced-Circulation Air-Cooling and Air-Heating Coils Certification Program.

L - Coil rating valid for Heatcraft coils only.

USER NOTES

COILCALC FLUID VERIFICATION

Customer		Date	7/7/2023 3:51:08 PM
Contact		By	Bennett Funderburk
Telephone		Company	Hoffman & Hoffman, Inc.
Email		Return telephone	9197818011
Project	(116102) Eli Lilly - Building 4 Concord	Email	bennett.funderburk@hoffman-hoffman.com

Saved run: 2656846
Item/Description RHC-4117

CONSTRUCTION DATA

Model	3MI0702B - 10 x 13	Connection material	Carbon Steel
Coils per bank	1	Connection type	MPT
Coil duty	Heat-Return Bend	Connection rotation	None
Tube OD [in]	3/8	Connection size [in]	1.50
Fin spacing [in]	7.000	Connection qty	1
Rows	2	Connection end	Same End
Fin surface	B		
Fin height x length [in]	10.00 x 13.00		
Circuiting	One Sixth		
Tube material [in]	0.030 Copper		
Fin material [in]	0.0095 Aluminum		

THERMODYNAMIC

AIR SIDE			FLUID SIDE		
Face velocity (Standard)	[ft/min]	664.6	Fluid		Water
Air flow (Standard)	[cfm]	600.0	Fouling factor		0
Altitude	[ft]	705.0	Entering fluid temp.	[°F]	130.0
EAT db	[°F]	46.00	Fluid flow	[gpm]	1.700
Fin fouling factor		0			

OPTIONS/SPECIALTIES

Casing material	Galvanized Steel
Casing type	Flanged
Coating	None
Hand	Left
Vent / Drain	.50 FPT on Face

RESULTS

CONSTRUCTION			AIR SIDE		
Weight	[lbs]	17.79	Total / Sensible capacity	[MBH]	16.47 / 16.47
Weight with fluid	[lbs]	21.21	LAT db	[°F]	71.31
Face area	[ft²]	0.9028	Air pressure drop (Standard)	[in wg]	0.2087
			FLUID SIDE		
			Fluid pressure drop	[ft H2O]	5.503
			Fluid flow rate	[gpm]	1.700
			Leaving fluid temp.	[°F]	110.4
			Internal volume	[in³]	95.71
			Tubeside velocity	[ft/s]	3.143

NOTES FROM CALCULATIONS

C - Coil is NOT certified by AHRI. Coil is within the scope of the AHRI Forced-Circulation Air-Cooling and Air-Heating Coils Certification Program.

L - Coil rating valid for Heatcraft coils only.

USER NOTES

COILCALC FLUID VERIFICATION

Customer	Date	7/7/2023 3:51:08 PM
Contact	By	Bennett Funderburk
Telephone	Company	Hoffman & Hoffman, Inc.
Email	Return telephone	9197818011
Project (116102) Eli Lilly - Building 4 Concord	Email	bennett.funderburk@hoffman-hoffman.com

Saved run: 2676435
Item/Description RHC-4118, 4203

CONSTRUCTION DATA

Model	3MI0602C - 10 x 10	Connection material	Carbon Steel
Coils per bank	1	Connection type	MPT
Coil duty	Heat-Return Bend	Connection rotation	None
Tube OD [in]	3/8	Connection size [in]	1.50
Fin spacing [/in]	6.000	Connection qty	1
Rows	2	Connection end	Same End
Fin surface	C		
Fin height x length [in]	10.00 x 10.00		
Circuiting	One Sixth		
Tube material [in]	0.030 Copper		
Fin material [in]	0.0095 Aluminum		

THERMODYNAMIC

AIR SIDE			FLUID SIDE		
Face velocity (Standard)	[ft/min]	648.0	Fluid		Water
Air flow (Standard)	[cfm]	450.0	Fouling factor		0
Altitude	[ft]	705.0	Entering fluid temp.	[°F]	130.0
EAT db	[°F]	46.00	Fluid flow	[gpm]	1.300
Fin fouling factor		0			

OPTIONS/SPECIALTIES

Casing material	Galvanized Steel
Casing type	Flanged
Coating	None
Hand	Left
Vent / Drain	.50 FPT on Face

RESULTS

CONSTRUCTION			AIR SIDE		
Weight	[lbs]	15.54	Total / Sensible capacity	[MBH]	13.24 / 13.24
Weight with fluid	[lbs]	18.83	LAT db	[°F]	73.12
Face area	[ft²]	0.6944	Air pressure drop (Standard)	[in wg]	0.2435
			FLUID SIDE		
			Fluid pressure drop	[ft H2O]	3.193
			Fluid flow rate	[gpm]	1.300
			Leaving fluid temp.	[°F]	109.4
			Internal volume	[in³]	92.24
			Tubeside velocity	[ft/s]	2.404

NOTES FROM CALCULATIONS

C - Coil is NOT certified by AHRI. Coil is within the scope of the AHRI Forced-Circulation Air-Cooling and Air-Heating Coils Certification Program.
 L - Coil rating valid for Heatcraft coils only.

USER NOTES

COILCALC FLUID VERIFICATION

Customer	Date	7/7/2023 3:51:08 PM
Contact	By	Bennett Funderburk
Telephone	Company	Hoffman & Hoffman, Inc.
Email	Return telephone	9197818011
Project (116102) Eli Lilly - Building 4 Concord	Email	bennett.funderburk@hoffman-hoffman.com

Saved run: 2676437
Item/Description RHC-4120B

CONSTRUCTION DATA

Model	5MI0702B - 24 x 24	Connection material	Carbon Steel
Coils per bank	1	Connection type	MPT
Coil duty	Heat-Return Bend	Connection rotation	None
Tube OD [in]	5/8	Connection size [in]	1.50
Fin spacing [/in]	7.000	Connection qty	1
Rows	2	Connection end	Same End
Fin surface	B		
Fin height x length [in]	24.00 x 24.00		
Circuiting	One Sixth		
Tube material [in]	0.035 Copper		
Fin material [in]	0.0095 Aluminum		

THERMODYNAMIC

AIR SIDE			FLUID SIDE		
Face velocity (Standard) [ft/min]	625.0		Fluid		Water
Air flow (Standard) [cfm]	2,500		Fouling factor		0
Altitude [ft]	705.0		Entering fluid temp. [°F]		130.0
EAT db [°F]	46.00		Fluid flow [gpm]		6.800
Fin fouling factor	0				

OPTIONS/SPECIALTIES

Casing material	Galvanized Steel
Casing type	Flanged
Coating	None
Hand	Right
Vent / Drain	.50 FPT on Face

RESULTS

CONSTRUCTION			AIR SIDE		
Weight [lbs]	56.32		Total / Sensible capacity [MBH]		70.13 / 70.13
Weight with fluid [lbs]	70.27		LAT db [°F]		71.87
Face area [ft²]	4.000		Air pressure drop (Standard) [in wg]		0.2555
			FLUID SIDE		
			Fluid pressure drop [ft H2O]		2.956
			Fluid flow rate [gpm]		6.800
			Leaving fluid temp. [°F]		109.1
			Internal volume [in³]		390.9
			Tubeside velocity [ft/s]		2.726

NOTES FROM CALCULATIONS

A - Certified in accordance with the AHRI Forced-Circulation Air-Cooling and Air-Heating Coils Certification Program which is based on AHRI Standard 410 within the Range of Standard Rating Conditions listed in Table 1 of the Standard. Certified units may be found in the AHRI Directory at www.ahridirectory.org.

L - Coil rating valid for Heatcraft coils only.

USER NOTES

COILCALC FLUID VERIFICATION

Customer		Date	7/7/2023 3:51:08 PM
Contact		By	Bennett Funderburk
Telephone		Company	Hoffman & Hoffman, Inc.
Email		Return telephone	9197818011
Project	(116102) Eli Lilly - Building 4 Concord	Email	bennett.funderburk@hoffman-hoffman.com

Saved run: 2664471
Item/Description RHC-4120F, 4123F

CONSTRUCTION DATA

Model	3MQ0602C - 10 x 8	Connection material	Carbon Steel
Coils per bank	1	Connection type	MPT
Coil duty	Heat-Return Bend	Connection rotation	None
Tube OD [in]	3/8	Connection size [in]	1.50
Fin spacing [/in]	6.000	Connection qty	1
Rows	2	Connection end	Same End
Fin surface	C		
Fin height x length [in]	10.00 x 8.000		
Circuiting	Quarter		
Tube material [in]	0.030 Copper		
Fin material [in]	0.0095 Aluminum		

THERMODYNAMIC

AIR SIDE			FLUID SIDE		
Face velocity (Standard) [ft/min]	630.0		Fluid		Water
Air flow (Standard) [cfm]	350.0		Fouling factor		0
Altitude [ft]	705.0		Entering fluid temp. [°F]		130.0
EAT db [°F]	46.00		Fluid flow [gpm]		1.000
Fin fouling factor	0				

OPTIONS/SPECIALTIES

Casing material	Galvanized Steel
Casing type	Flanged
Coating	None
Hand	Right
Vent / Drain	.50 FPT on Face

RESULTS

CONSTRUCTION			AIR SIDE		
Weight [lbs]	14.21		Total / Sensible capacity [MBH]		9.591 / 9.591
Weight with fluid [lbs]	17.39		LAT db [°F]		71.27
Face area [ft²]	0.5556		Air pressure drop (Standard) [in wg]		0.2320
			FLUID SIDE		
			Fluid pressure drop [ft H2O]		0.6262
			Fluid flow rate [gpm]		1.000
			Leaving fluid temp. [°F]		110.6
			Internal volume [in³]		89.11
			Tubeside velocity [ft/s]		1.233

NOTES FROM CALCULATIONS

C - Coil is NOT certified by AHRI. Coil is within the scope of the AHRI Forced-Circulation Air-Cooling and Air-Heating Coils Certification Program.
L - Coil rating valid for Heatcraft coils only.

USER NOTES

COILCALC FLUID VERIFICATION

Customer	Date	7/7/2023 3:51:08 PM
Contact	By	Bennett Funderburk
Telephone	Company	Hoffman & Hoffman, Inc.
Email	Return telephone	9197818011
Project (116102) Eli Lilly - Building 4 Concord	Email	bennett.funderburk@hoffman-hoffman.com

Saved run: 2656841
Item/Description RHC-4121, 4213B

CONSTRUCTION DATA

Model	5MI0902A - 15 x 16	Connection material	Carbon Steel
Coils per bank	1	Connection type	MPT
Coil duty	Heat-Return Bend	Connection rotation	None
Tube OD [in]	5/8	Connection size [in]	1.50
Fin spacing [/in]	9.000	Connection qty	1
Rows	2	Connection end	Same End
Fin surface	A		
Fin height x length [in]	15.00 x 16.00		
Circuiting	One Sixth		
Tube material [in]	0.035 Copper		
Fin material [in]	0.0095 Aluminum		

THERMODYNAMIC

AIR SIDE			FLUID SIDE		
Face velocity (Standard) [ft/min]	660.0		Fluid		Water
Air flow (Standard) [cfm]	1,100		Fouling factor		0
Altitude [ft]	705.0		Entering fluid temp. [°F]		130.0
EAT db [°F]	46.00		Fluid flow [gpm]		3.000
Fin fouling factor	0				

OPTIONS/SPECIALTIES

Casing material	Galvanized Steel
Casing type	Flanged
Coating	None
Hand	Right
Vent / Drain	.50 FPT on Face

RESULTS

CONSTRUCTION			AIR SIDE		
Weight [lbs]	31.22		Total / Sensible capacity [MBH]		31.47 / 31.47
Weight with fluid [lbs]	38.59		LAT db [°F]		72.38
Face area [ft²]	1.667		Air pressure drop (Standard) [in wg]		0.1993
			FLUID SIDE		
			Fluid pressure drop [ft H2O]		1.211
			Fluid flow rate [gpm]		3.000
			Leaving fluid temp. [°F]		108.8
			Internal volume [in³]		206.3
			Tubeside velocity [ft/s]		1.804

NOTES FROM CALCULATIONS

A - Certified in accordance with the AHRI Forced-Circulation Air-Cooling and Air-Heating Coils Certification Program which is based on AHRI Standard 410 within the Range of Standard Rating Conditions listed in Table 1 of the Standard. Certified units may be found in the AHRI Directory at www.ahridirectory.org.

L - Coil rating valid for Heatcraft coils only.

USER NOTES

COILCALC FLUID VERIFICATION

Customer		Date	7/7/2023 3:51:08 PM
Contact		By	Bennett Funderburk
Telephone		Company	Hoffman & Hoffman, Inc.
Email		Return telephone	9197818011
Project	(116102) Eli Lilly - Building 4 Concord	Email	bennett.funderburk@hoffman-hoffman.com

Saved run: 2656842
Item/Description RHC-4123B

CONSTRUCTION DATA

Model	5MI0702B - 24 x 24	Connection material	Carbon Steel
Coils per bank	1	Connection type	MPT
Coil duty	Heat-Return Bend	Connection rotation	None
Tube OD [in]	5/8	Connection size [in]	1.50
Fin spacing [/in]	7.000	Connection qty	1
Rows	2	Connection end	Same End
Fin surface	B		
Fin height x length [in]	24.00 x 24.00		
Circuiting	One Sixth		
Tube material [in]	0.035 Copper		
Fin material [in]	0.0095 Aluminum		

THERMODYNAMIC

AIR SIDE			FLUID SIDE		
Face velocity (Standard)	[ft/min]	612.5	Fluid		Water
Air flow (Standard)	[cfm]	2,450	Fouling factor		0
Altitude	[ft]	705.0	Entering fluid temp.	[°F]	130.0
EAT db	[°F]	46.00	Fluid flow	[gpm]	6.700
Fin fouling factor		0			

OPTIONS/SPECIALTIES

Casing material	Galvanized Steel
Casing type	Flanged
Coating	None
Hand	Right
Vent / Drain	.50 FPT on Face

RESULTS

CONSTRUCTION			AIR SIDE		
Weight	[lbs]	56.32	Total / Sensible capacity	[MBH]	69.23 / 69.23
Weight with fluid	[lbs]	70.27	LAT db	[°F]	72.06
Face area	[ft²]	4.000	Air pressure drop (Standard)	[in wg]	0.2467
			FLUID SIDE		
			Fluid pressure drop	[ft H2O]	2.880
			Fluid flow rate	[gpm]	6.700
			Leaving fluid temp.	[°F]	109.1
			Internal volume	[in³]	390.9
			Tubeside velocity	[ft/s]	2.686

NOTES FROM CALCULATIONS

A - Certified in accordance with the AHRI Forced-Circulation Air-Cooling and Air-Heating Coils Certification Program which is based on AHRI Standard 410 within the Range of Standard Rating Conditions listed in Table 1 of the Standard. Certified units may be found in the AHRI Directory at www.ahridirectory.org.

L - Coil rating valid for Heatcraft coils only.

USER NOTES

COILCALC FLUID VERIFICATION

Customer		Date	7/7/2023 3:51:08 PM
Contact		By	Bennett Funderburk
Telephone		Company	Hoffman & Hoffman, Inc.
Email		Return telephone	9197818011
Project	(116102) Eli Lilly - Building 4 Concord	Email	bennett.funderburk@hoffman-hoffman.com

Saved run: 2656848
Item/Description RHC-4124

CONSTRUCTION DATA

Model	3MI0702B - 12 x 13	Connection material	Carbon Steel
Coils per bank	1	Connection type	MPT
Coil duty	Heat-Return Bend	Connection rotation	None
Tube OD [in]	3/8	Connection size [in]	1.50
Fin spacing [in]	7.000	Connection qty	1
Rows	2	Connection end	Same End
Fin surface	B		
Fin height x length [in]	12.00 x 13.00		
Circuiting	One Sixth		
Tube material [in]	0.030 Copper		
Fin material [in]	0.0095 Aluminum		

THERMODYNAMIC

AIR SIDE			FLUID SIDE		
Face velocity (Standard)	[ft/min]	646.2	Fluid		Water
Air flow (Standard)	[cfm]	700.0	Fouling factor		0
Altitude	[ft]	705.0	Entering fluid temp.	[°F]	130.0
EAT db	[°F]	46.00	Fluid flow	[gpm]	1.900
Fin fouling factor		0			

OPTIONS/SPECIALTIES

Casing material	Galvanized Steel
Casing type	Flanged
Coating	None
Hand	Right
Vent / Drain	.50 FPT on Face

RESULTS

CONSTRUCTION			AIR SIDE		
Weight	[lbs]	20.33	Total / Sensible capacity	[MBH]	19.50 / 19.50
Weight with fluid	[lbs]	24.34	LAT db	[°F]	71.69
Face area	[ft²]	1.083	Air pressure drop (Standard)	[in wg]	0.1988
			FLUID SIDE		
			Fluid pressure drop	[ft H2O]	7.107
			Fluid flow rate	[gpm]	1.900
			Leaving fluid temp.	[°F]	109.2
			Internal volume	[in³]	112.3
			Tubeside velocity	[ft/s]	3.513

NOTES FROM CALCULATIONS

C - Coil is NOT certified by AHRI. Coil is within the scope of the AHRI Forced-Circulation Air-Cooling and Air-Heating Coils Certification Program.

L - Coil rating valid for Heatcraft coils only.

USER NOTES

COILCALC FLUID VERIFICATION

Customer		Date	7/7/2023 3:51:08 PM
Contact		By	Bennett Funderburk
Telephone		Company	Hoffman & Hoffman, Inc.
Email		Return telephone	9197818011
Project	(116102) Eli Lilly - Building 4 Concord	Email	bennett.funderburk@hoffman-hoffman.com

Saved run: 2656850
Item/Description RHC-4211A

CONSTRUCTION DATA

Model	3MI1201C - 14 x 14	Connection material	Carbon Steel
Coils per bank	1	Connection type	MPT
Coil duty	Heat-Return Bend	Connection rotation	None
Tube OD [in]	3/8	Connection size [in]	1.50
Fin spacing [in]	12.00	Connection qty	1
Rows	1	Connection end	Same End
Fin surface	C		
Fin height x length [in]	14.00 x 14.00		
Circuiting	One Sixth		
Tube material [in]	0.030 Copper		
Fin material [in]	0.0095 Aluminum		

THERMODYNAMIC

AIR SIDE			FLUID SIDE		
Face velocity (Standard)	[ft/min]	624.5	Fluid		Water
Air flow (Standard)	[cfm]	850.0	Fouling factor		0
Altitude	[ft]	705.0	Entering fluid temp.	[°F]	130.0
EAT db	[°F]	46.00	Fluid flow	[gpm]	2.300
Fin fouling factor		0			

OPTIONS/SPECIALTIES

Casing material	Galvanized Steel
Casing type	Flanged
Coating	None
Hand	Left
Vent / Drain	.50 FPT on Face

RESULTS

CONSTRUCTION			AIR SIDE		
Weight	[lbs]	21.79	Total / Sensible capacity	[MBH]	23.18 / 23.18
Weight with fluid	[lbs]	25.80	LAT db	[°F]	71.14
Face area	[ft²]	1.361	Air pressure drop (Standard)	[in wg]	0.1824
			FLUID SIDE		
			Fluid pressure drop	[ft H2O]	5.793
			Fluid flow rate	[gpm]	2.300
			Leaving fluid temp.	[°F]	109.6
			Internal volume	[in³]	112.3
			Tubeside velocity	[ft/s]	4.252

NOTES FROM CALCULATIONS

C - Coil is NOT certified by AHRI. Coil is within the scope of the AHRI Forced-Circulation Air-Cooling and Air-Heating Coils Certification Program.
 L - Coil rating valid for Heatcraft coils only.

USER NOTES

COILCALC FLUID VERIFICATION

Customer	Date	7/7/2023 3:51:08 PM
Contact	By	Bennett Funderburk
Telephone	Company	Hoffman & Hoffman, Inc.
Email	Return telephone	9197818011
Project (116102) Eli Lilly - Building 4 Concord	Email	bennett.funderburk@hoffman-hoffman.com

Saved run: 2656843
Item/Description RHC-4211B

CONSTRUCTION DATA

Model	5MI0802A - 18 x 24	Connection material	Carbon Steel
Coils per bank	1	Connection type	MPT
Coil duty	Heat-Return Bend	Connection rotation	None
Tube OD [in]	5/8	Connection size [in]	1.50
Fin spacing [/in]	8.000	Connection qty	1
Rows	2	Connection end	Same End
Fin surface	A		
Fin height x length [in]	18.00 x 24.00		
Circuiting	One Sixth		
Tube material [in]	0.035 Copper		
Fin material [in]	0.0095 Aluminum		

THERMODYNAMIC

AIR SIDE			FLUID SIDE		
Face velocity (Standard)	[ft/min]	700.0	Fluid		Water
Air flow (Standard)	[cfm]	2,100	Fouling factor		0
Altitude	[ft]	705.0	Entering fluid temp.	[°F]	130.0
EAT db	[°F]	46.00	Fluid flow	[gpm]	5.700
Fin fouling factor		0			

OPTIONS/SPECIALTIES

Casing material	Galvanized Steel
Casing type	Flanged
Coating	None
Hand	Left
Vent / Drain	.50 FPT on Face

RESULTS

CONSTRUCTION			AIR SIDE		
Weight	[lbs]	45.45	Total / Sensible capacity	[MBH]	58.09 / 58.09
Weight with fluid	[lbs]	56.01	LAT db	[°F]	71.51
Face area	[ft²]	3.000	Air pressure drop (Standard)	[in wg]	0.2006
			FLUID SIDE		
			Fluid pressure drop	[ft H2O]	4.736
			Fluid flow rate	[gpm]	5.700
			Leaving fluid temp.	[°F]	109.4
			Internal volume	[in³]	296.0
			Tubeside velocity	[ft/s]	3.428

NOTES FROM CALCULATIONS

A - Certified in accordance with the AHRI Forced-Circulation Air-Cooling and Air-Heating Coils Certification Program which is based on AHRI Standard 410 within the Range of Standard Rating Conditions listed in Table 1 of the Standard. Certified units may be found in the AHRI Directory at www.ahridirectory.org.

L - Coil rating valid for Heatcraft coils only.

USER NOTES

COILCALC FLUID VERIFICATION

Customer	Date	7/7/2023 3:51:09 PM
Contact	By	Bennett Funderburk
Telephone	Company	Hoffman & Hoffman, Inc.
Email	Return telephone	9197818011
Project (116102) Eli Lilly - Building 4 Concord	Email	bennett.funderburk@hoffman-hoffman.com

Saved run: 2656844
Item/Description RHC-4211C

CONSTRUCTION DATA

Model	5MI0802A - 24 x 24	Connection material	Carbon Steel
Coils per bank	1	Connection type	MPT
Coil duty	Heat-Return Bend	Connection rotation	None
Tube OD [in]	5/8	Connection size [in]	1.50
Fin spacing [/in]	8.000	Connection qty	1
Rows	2	Connection end	Same End
Fin surface	A		
Fin height x length [in]	24.00 x 24.00		
Circuiting	One Sixth		
Tube material [in]	0.035 Copper		
Fin material [in]	0.0095 Aluminum		

THERMODYNAMIC

AIR SIDE			FLUID SIDE		
Face velocity (Standard) [ft/min]	675.0		Fluid		Water
Air flow (Standard) [cfm]	2,700		Fouling factor		0
Altitude [ft]	705.0		Entering fluid temp. [°F]		130.0
EAT db [°F]	46.00		Fluid flow [gpm]		7.300
Fin fouling factor	0				

OPTIONS/SPECIALTIES

Casing material	Galvanized Steel
Casing type	Flanged
Coating	None
Hand	Left
Vent / Drain	.50 FPT on Face

RESULTS

CONSTRUCTION			AIR SIDE		
Weight [lbs]	57.48		Total / Sensible capacity [MBH]		74.85 / 74.85
Weight with fluid [lbs]	71.43		LAT db [°F]		71.56
Face area [ft²]	4.000		Air pressure drop (Standard) [in wg]		0.1887
			FLUID SIDE		
			Fluid pressure drop [ft H2O]		3.352
			Fluid flow rate [gpm]		7.300
			Leaving fluid temp. [°F]		109.3
			Internal volume [in³]		390.9
			Tubeside velocity [ft/s]		2.927

NOTES FROM CALCULATIONS

A - Certified in accordance with the AHRI Forced-Circulation Air-Cooling and Air-Heating Coils Certification Program which is based on AHRI Standard 410 within the Range of Standard Rating Conditions listed in Table 1 of the Standard. Certified units may be found in the AHRI Directory at www.ahridirectory.org.

L - Coil rating valid for Heatcraft coils only.

USER NOTES

COILCALC FLUID VERIFICATION

Customer	Date	7/7/2023 3:51:09 PM
Contact	By	Bennett Funderburk
Telephone	Company	Hoffman & Hoffman, Inc.
Email	Return telephone	9197818011
Project (116102) Eli Lilly - Building 4 Concord	Email	bennett.funderburk@hoffman-hoffman.com

Saved run: 2676436
Item/Description RHC-4212

CONSTRUCTION DATA

Model	3MQ0802B - 12 x 14	Connection material	Carbon Steel
Coils per bank	1	Connection type	MPT
Coil duty	Heat-Return Bend	Connection rotation	None
Tube OD [in]	3/8	Connection size [in]	1.50
Fin spacing [in]	8.000	Connection qty	1
Rows	2	Connection end	Same End
Fin surface	B		
Fin height x length [in]	12.00 x 14.00		
Circuiting	Quarter		
Tube material [in]	0.030 Copper		
Fin material [in]	0.0095 Aluminum		

THERMODYNAMIC

AIR SIDE			FLUID SIDE		
Face velocity (Standard)	[ft/min]	685.7	Fluid		Water
Air flow (Standard)	[cfm]	800.0	Fouling factor		0
Altitude	[ft]	705.0	Entering fluid temp.	[°F]	130.0
EAT db	[°F]	46.00	Fluid flow	[gpm]	2.200
Fin fouling factor		0			

OPTIONS/SPECIALTIES

Casing material	Galvanized Steel
Casing type	Flanged
Coating	None
Hand	Right
Vent / Drain	.50 FPT on Face

RESULTS

CONSTRUCTION			AIR SIDE		
Weight	[lbs]	21.41	Total / Sensible capacity	[MBH]	22.90 / 22.90
Weight with fluid	[lbs]	25.58	LAT db	[°F]	72.39
Face area	[ft²]	1.167	Air pressure drop (Standard)	[in wg]	0.2402
			FLUID SIDE		
			Fluid pressure drop	[ft H2O]	3.185
			Fluid flow rate	[gpm]	2.200
			Leaving fluid temp.	[°F]	108.9
			Internal volume	[in³]	116.8
			Tubeside velocity	[ft/s]	2.712

NOTES FROM CALCULATIONS

C - Coil is NOT certified by AHRI. Coil is within the scope of the AHRI Forced-Circulation Air-Cooling and Air-Heating Coils Certification Program.

L - Coil rating valid for Heatcraft coils only.

USER NOTES

COILCALC FLUID VERIFICATION

Customer	Date	7/7/2023 3:51:09 PM
Contact	By	Bennett Funderburk
Telephone	Company	Hoffman & Hoffman, Inc.
Email	Return telephone	9197818011
Project (116102) Eli Lilly - Building 4 Concord	Email	bennett.funderburk@hoffman-hoffman.com

Saved run: 2656851
Item/Description RHC-4213A

CONSTRUCTION DATA

Model	3MQ0702B - 8 x 12	Connection material	Carbon Steel
Coils per bank	1	Connection type	MPT
Coil duty	Heat-Return Bend	Connection rotation	None
Tube OD [in]	3/8	Connection size [in]	1.50
Fin spacing [/in]	7.000	Connection qty	1
Rows	2	Connection end	Same End
Fin surface	B		
Fin height x length [in]	8.000 x 12.00		
Circuiting	Quarter		
Tube material [in]	0.030 Copper		
Fin material [in]	0.0095 Aluminum		

THERMODYNAMIC

AIR SIDE			FLUID SIDE		
Face velocity (Standard) [ft/min]	600.0		Fluid		Water
Air flow (Standard) [cfm]	400.0		Fouling factor		0
Altitude [ft]	705.0		Entering fluid temp. [°F]		130.0
EAT db [°F]	46.00		Fluid flow [gpm]		1.100
Fin fouling factor	0				

OPTIONS/SPECIALTIES

Casing material	Galvanized Steel
Casing type	Flanged
Coating	None
Hand	Right
Vent / Drain	.50 FPT on Face

RESULTS

CONSTRUCTION			AIR SIDE		
Weight [lbs]	14.62		Total / Sensible capacity [MBH]		11.02 / 11.02
Weight with fluid [lbs]	17.45		LAT db [°F]		71.41
Face area [ft²]	0.6667		Air pressure drop (Standard) [in wg]		0.1749
			FLUID SIDE		
			Fluid pressure drop [ft H2O]		1.815
			Fluid flow rate [gpm]		1.100
			Leaving fluid temp. [°F]		109.7
			Internal volume [in³]		79.15
			Tubeside velocity [ft/s]		2.034

NOTES FROM CALCULATIONS

C - Coil is NOT certified by AHRI. Coil is within the scope of the AHRI Forced-Circulation Air-Cooling and Air-Heating Coils Certification Program.

L - Coil rating valid for Heatcraft coils only.

USER NOTES

COILCALC FLUID VERIFICATION

Customer	Date	7/7/2023 3:51:09 PM
Contact	By	Bennett Funderburk
Telephone	Company	Hoffman & Hoffman, Inc.
Email	Return telephone	9197818011
Project (116102) Eli Lilly - Building 4 Concord	Email	bennett.funderburk@hoffman-hoffman.com

Saved run: 2654690
Item/Description RHC-4901A

CONSTRUCTION DATA

Model	5MQ1101B - 45 x 50	Connection material	Carbon Steel
Coils per bank	1	Connection type	MPT
Coil duty	Heat-Return Bend	Connection rotation	None
Tube OD [in]	5/8	Connection size [in]	1.50
Fin spacing [in]	11.00	Connection qty	1
Rows	1	Connection end	Same End
Fin surface	B		
Fin height x length [in]	45.00 x 50.00		
Circuiting	Quarter		
Tube material [in]	0.035 Copper		
Fin material [in]	0.0095 Aluminum		

THERMODYNAMIC

AIR SIDE			FLUID SIDE		
Face velocity (Standard)	[ft/min]	687.4	Fluid		Water
Air flow (Standard)	[cfm]	10,740	Fouling factor		0
Altitude	[ft]	705.0	Entering fluid temp.	[°F]	130.0
EAT db	[°F]	46.00	Fluid flow	[gpm]	23.50
Fin fouling factor		0			

OPTIONS/SPECIALTIES

Casing material	Galvanized Steel
Casing type	Flanged
Coating	None
Hand	Right
Vent / Drain	.50 FPT on Face

RESULTS

CONSTRUCTION			AIR SIDE		
Weight	[lbs]	118.6	Total / Sensible capacity	[MBH]	244.5 / 244.5
Weight with fluid	[lbs]	143.7	LAT db	[°F]	66.99
Face area	[ft²]	15.63	Air pressure drop (Standard)	[in wg]	0.2193
			FLUID SIDE		
			Fluid pressure drop	[ft H2O]	3.282
			Fluid flow rate	[gpm]	23.50
			Leaving fluid temp.	[°F]	108.9
			Internal volume	[in³]	705.4
			Tubeside velocity	[ft/s]	3.533

NOTES FROM CALCULATIONS

A - Certified in accordance with the AHRI Forced-Circulation Air-Cooling and Air-Heating Coils Certification Program which is based on AHRI Standard 410 within the Range of Standard Rating Conditions listed in Table 1 of the Standard. Certified units may be found in the AHRI Directory at www.ahridirectory.org.

K - Face and row spacing on 1.5 inch centers.

L - Coil rating valid for Heatcraft coils only.

USER NOTES

COILCALC FLUID VERIFICATION

Customer	Date	7/7/2023 3:51:09 PM
Contact	By	Bennett Funderburk
Telephone	Company	Hoffman & Hoffman, Inc.
Email	Return telephone	9197818011
Project (116102) Eli Lilly - Building 4 Concord	Email	bennett.funderburk@hoffman-hoffman.com

Saved run: 2673130
Item/Description RHC-4901B,D; RHC-4902B; RHC-4904B,C; RHC-4905B

CONSTRUCTION DATA

Model	5MQ1101B - 45 x 50	Connection material	Carbon Steel
Coils per bank	1	Connection type	MPT
Coil duty	Heat-Return Bend	Connection rotation	None
Tube OD [in]	5/8	Connection size [in]	1.50
Fin spacing [/in]	11.00	Connection qty	1
Rows	1	Connection end	Same End
Fin surface	B		
Fin height x length [in]	45.00 x 50.00		
Circuiting	Quarter		
Tube material [in]	0.035 Copper		
Fin material [in]	0.0095 Aluminum		

THERMODYNAMIC

AIR SIDE			FLUID SIDE		
Face velocity (Standard)	[ft/min]	687.4	Fluid		Water
Air flow (Standard)	[cfm]	10,740	Fouling factor		0
Altitude	[ft]	705.0	Entering fluid temp.	[°F]	130.0
EAT db	[°F]	46.00	Fluid flow	[gpm]	23.50
Fin fouling factor		0			

OPTIONS/SPECIALTIES

Casing material	Galvanized Steel
Casing type	Flanged
Coating	None
Hand	Left
Vent / Drain	.50 FPT on Face

RESULTS

CONSTRUCTION			AIR SIDE		
Weight	[lbs]	118.6	Total / Sensible capacity	[MBH]	244.5 / 244.5
Weight with fluid	[lbs]	143.7	LAT db	[°F]	66.99
Face area	[ft²]	15.63	Air pressure drop (Standard)	[in wg]	0.2193
			FLUID SIDE		
			Fluid pressure drop	[ft H2O]	3.282
			Fluid flow rate	[gpm]	23.50
			Leaving fluid temp.	[°F]	108.9
			Internal volume	[in³]	705.4
			Tubeside velocity	[ft/s]	3.533

NOTES FROM CALCULATIONS

A - Certified in accordance with the AHRI Forced-Circulation Air-Cooling and Air-Heating Coils Certification Program which is based on AHRI Standard 410 within the Range of Standard Rating Conditions listed in Table 1 of the Standard. Certified units may be found in the AHRI Directory at www.ahridirectory.org.

K - Face and row spacing on 1.5 inch centers.

L - Coil rating valid for Heatcraft coils only.

USER NOTES

COILCALC FLUID VERIFICATION

Customer	Date	7/7/2023 3:51:09 PM
Contact	By	Bennett Funderburk
Telephone	Company	Hoffman & Hoffman, Inc.
Email	Return telephone	9197818011
Project (116102) Eli Lilly - Building 4 Concord	Email	bennett.funderburk@hoffman-hoffman.com

Saved run: 2748499
Item/Description RHC-4901B,D; RHC-4902B; RHC-4904B,C; RHC-4905B -COPY

CONSTRUCTION DATA

Model	5MQ1101B - 45 x 50	Connection material	Carbon Steel
Coils per bank	1	Connection type	MPT
Coil duty	Heat-Return Bend	Connection rotation	None
Tube OD [in]	5/8	Connection size [in]	1.50
Fin spacing [/in]	11.00	Connection qty	1
Rows	1	Connection end	Same End
Fin surface	B		
Fin height x length [in]	45.00 x 50.00		
Circuiting	Quarter		
Tube material [in]	0.035 Copper		
Fin material [in]	0.0095 Aluminum		

THERMODYNAMIC

AIR SIDE			FLUID SIDE		
Face velocity (Standard)	[ft/min]	687.4	Fluid		Water
Air flow (Standard)	[cfm]	10,740	Fouling factor		0
Altitude	[ft]	705.0	Entering fluid temp.	[°F]	130.0
EAT db	[°F]	46.00	Fluid flow	[gpm]	23.50
Fin fouling factor		0			

OPTIONS/SPECIALTIES

Casing material	Galvanized Steel
Casing type	Flanged
Coating	None
Hand	Left
Vent / Drain	.50 FPT on Face

RESULTS

CONSTRUCTION			AIR SIDE		
Weight	[lbs]	118.6	Total / Sensible capacity	[MBH]	244.5 / 244.5
Weight with fluid	[lbs]	143.7	LAT db	[°F]	66.99
Face area	[ft²]	15.63	Air pressure drop (Standard)	[in wg]	0.2193
			FLUID SIDE		
			Fluid pressure drop	[ft H2O]	3.282
			Fluid flow rate	[gpm]	23.50
			Leaving fluid temp.	[°F]	108.9
			Internal volume	[in³]	705.4
			Tubeside velocity	[ft/s]	3.533

NOTES FROM CALCULATIONS

A - Certified in accordance with the AHRI Forced-Circulation Air-Cooling and Air-Heating Coils Certification Program which is based on AHRI Standard 410 within the Range of Standard Rating Conditions listed in Table 1 of the Standard. Certified units may be found in the AHRI Directory at www.ahridirectory.org.

K - Face and row spacing on 1.5 inch centers.

L - Coil rating valid for Heatcraft coils only.

USER NOTES

COILCALC FLUID VERIFICATION

Customer	Date	7/7/2023 3:51:09 PM
Contact	By	Bennett Funderburk
Telephone	Company	Hoffman & Hoffman, Inc.
Email	Return telephone	9197818011
Project (116102) Eli Lilly - Building 4 Concord	Email	bennett.funderburk@hoffman-hoffman.com

Saved run: 2654691
Item/Description RHC-4901C

CONSTRUCTION DATA

Model	5MQ1001C - 45 x 55	Connection material	Carbon Steel
Coils per bank	1	Connection type	MPT
Coil duty	Heat-Return Bend	Connection rotation	None
Tube OD [in]	5/8	Connection size [in]	1.50
Fin spacing [/in]	10.00	Connection qty	1
Rows	1	Connection end	Same End
Fin surface	C		
Fin height x length [in]	45.00 x 55.00		
Circuiting	Quarter		
Tube material [in]	0.035 Copper		
Fin material [in]	0.0095 Aluminum		

THERMODYNAMIC

AIR SIDE		FLUID SIDE	
Face velocity (Standard) [ft/min]	698.2	Fluid	Water
Air flow (Standard) [cfm]	12,000	Fouling factor	0
Altitude [ft]	705.0	Entering fluid temp. [°F]	130.0
EAT db [°F]	46.00	Fluid flow [gpm]	26.00
Fin fouling factor	0		

OPTIONS/SPECIALTIES

Casing material	Galvanized Steel
Casing type	Flanged
Coating	None
Hand	Right
Vent / Drain	.50 FPT on Face

RESULTS

CONSTRUCTION		AIR SIDE	
Weight [lbs]	123.9	Total / Sensible capacity [MBH]	270.0 / 270.0
Weight with fluid [lbs]	150.3	LAT db [°F]	66.74
Face area [ft²]	17.19	Air pressure drop (Standard) [in wg]	0.2891
		FLUID SIDE	
		Fluid pressure drop [ft H2O]	4.082
		Fluid flow rate [gpm]	26.00
		Leaving fluid temp. [°F]	109.0
		Internal volume [in³]	737.5
		Tubeside velocity [ft/s]	3.909

NOTES FROM CALCULATIONS

A - Certified in accordance with the AHRI Forced-Circulation Air-Cooling and Air-Heating Coils Certification Program which is based on AHRI Standard 410 within the Range of Standard Rating Conditions listed in Table 1 of the Standard. Certified units may be found in the AHRI Directory at www.ahridirectory.org.

K - Face and row spacing on 1.5 inch centers.

L - Coil rating valid for Heatcraft coils only.

USER NOTES

COILCALC FLUID VERIFICATION

Customer	Date	7/7/2023 3:51:09 PM
Contact	By	Bennett Funderburk
Telephone	Company	Hoffman & Hoffman, Inc.
Email	Return telephone	9197818011
Project (116102) Eli Lilly - Building 4 Concord	Email	bennett.funderburk@hoffman-hoffman.com

Saved run: 2654693
Item/Description RHC-4902A

CONSTRUCTION DATA

Model	5MQ1001B - 46.5 x 60	Connection material	Carbon Steel
Coils per bank	1	Connection type	MPT
Coil duty	Heat-Return Bend	Connection rotation	None
Tube OD [in]	5/8	Connection size [in]	1.50
Fin spacing [/in]	10.00	Connection qty	1
Rows	1	Connection end	Same End
Fin surface	B		
Fin height x length [in]	46.50 x 60.00		
Circuiting	Quarter		
Tube material [in]	0.035 Copper		
Fin material [in]	0.0095 Aluminum		

THERMODYNAMIC

AIR SIDE			FLUID SIDE		
Face velocity (Standard)	[ft/min]	696.8	Fluid		Water
Air flow (Standard)	[cfm]	13,500	Fouling factor		0
Altitude	[ft]	705.0	Entering fluid temp.	[°F]	130.0
EAT db	[°F]	46.00	Fluid flow	[gpm]	30.80
Fin fouling factor		0			

OPTIONS/SPECIALTIES

Casing material	Galvanized Steel
Casing type	Flanged
Coating	None
Hand	Left
Vent / Drain	.50 FPT on Face

RESULTS

CONSTRUCTION			AIR SIDE		
Weight	[lbs]	135.2	Total / Sensible capacity	[MBH]	293.3 / 293.3
Weight with fluid	[lbs]	164.1	LAT db	[°F]	66.04
Face area	[ft²]	19.38	Air pressure drop (Standard)	[in wg]	0.2117
			FLUID SIDE		
			Fluid pressure drop	[ft H2O]	4.975
			Fluid flow rate	[gpm]	30.80
			Leaving fluid temp.	[°F]	110.7
			Internal volume	[in³]	812.0
			Tubeside velocity	[ft/s]	4.116

NOTES FROM CALCULATIONS

A - Certified in accordance with the AHRI Forced-Circulation Air-Cooling and Air-Heating Coils Certification Program which is based on AHRI Standard 410 within the Range of Standard Rating Conditions listed in Table 1 of the Standard. Certified units may be found in the AHRI Directory at www.ahridirectory.org.

K - Face and row spacing on 1.5 inch centers.

L - Coil rating valid for Heatcraft coils only.

USER NOTES

COILCALC FLUID VERIFICATION

Customer	Date	7/7/2023 3:51:10 PM
Contact	By	Bennett Funderburk
Telephone	Company	Hoffman & Hoffman, Inc.
Email	Return telephone	9197818011
Project (116102) Eli Lilly - Building 4 Concord	Email	bennett.funderburk@hoffman-hoffman.com

Saved run: 2655021
Item/Description RHC-4902C

CONSTRUCTION DATA

Model	5MQ1001C - 34.5 x 44	Connection material	Carbon Steel
Coils per bank	1	Connection type	MPT
Coil duty	Heat-Return Bend	Connection rotation	None
Tube OD [in]	5/8	Connection size [in]	1.50
Fin spacing [in]	10.00	Connection qty	1
Rows	1	Connection end	Same End
Fin surface	C		
Fin height x length [in]	34.50 x 44.00		
Circuiting	Quarter		
Tube material [in]	0.035 Copper		
Fin material [in]	0.0095 Aluminum		

THERMODYNAMIC

AIR SIDE			FLUID SIDE		
Face velocity (Standard)	[ft/min]	685.8	Fluid		Water
Air flow (Standard)	[cfm]	7,230	Fouling factor		0
Altitude	[ft]	705.0	Entering fluid temp.	[°F]	130.0
EAT db	[°F]	46.00	Fluid flow	[gpm]	15.70
Fin fouling factor		0			

OPTIONS/SPECIALTIES

Casing material	Galvanized Steel
Casing type	Flanged
Coating	None
Hand	Left
Vent / Drain	.50 FPT on Face

RESULTS

CONSTRUCTION			AIR SIDE		
Weight	[lbs]	86.17	Total / Sensible capacity	[MBH]	157.0 / 157.0
Weight with fluid	[lbs]	104.3	LAT db	[°F]	66.02
Face area	[ft²]	10.54	Air pressure drop (Standard)	[in wg]	0.2797
			FLUID SIDE		
			Fluid pressure drop	[ft H2O]	1.831
			Fluid flow rate	[gpm]	15.70
			Leaving fluid temp.	[°F]	109.8
			Internal volume	[in³]	507.6
			Tubeside velocity	[ft/s]	2.698

NOTES FROM CALCULATIONS

A - Certified in accordance with the AHRI Forced-Circulation Air-Cooling and Air-Heating Coils Certification Program which is based on AHRI Standard 410 within the Range of Standard Rating Conditions listed in Table 1 of the Standard. Certified units may be found in the AHRI Directory at www.ahridirectory.org.

K - Face and row spacing on 1.5 inch centers.

L - Coil rating valid for Heatcraft coils only.

USER NOTES

COILCALC FLUID VERIFICATION

Customer	Date	7/7/2023 3:51:10 PM
Contact	By	Bennett Funderburk
Telephone	Company	Hoffman & Hoffman, Inc.
Email	Return telephone	9197818011
Project (116102) Eli Lilly - Building 4 Concord	Email	bennett.funderburk@hoffman-hoffman.com

Saved run: 2655022
Item/Description RHC-4902D

CONSTRUCTION DATA

Model	5MQ1001C - 48 x 56.5	Connection material	Carbon Steel
Coils per bank	1	Connection type	MPT
Coil duty	Heat-Return Bend	Connection rotation	None
Tube OD [in]	5/8	Connection size [in]	1.50
Fin spacing [/in]	10.00	Connection qty	1
Rows	1	Connection end	Same End
Fin surface	C		
Fin height x length [in]	48.00 x 56.50		
Circuiting	Quarter		
Tube material [in]	0.035 Copper		
Fin material [in]	0.0095 Aluminum		

THERMODYNAMIC

AIR SIDE			FLUID SIDE		
Face velocity (Standard)	[ft/min]	680.2	Fluid		Water
Air flow (Standard)	[cfm]	12,810	Fouling factor		0
Altitude	[ft]	705.0	Entering fluid temp.	[°F]	130.0
EAT db	[°F]	46.00	Fluid flow	[gpm]	27.70
Fin fouling factor		0			

OPTIONS/SPECIALTIES

Casing material	Galvanized Steel
Casing type	Flanged
Coating	None
Hand	Right
Vent / Drain	.50 FPT on Face

RESULTS

CONSTRUCTION			AIR SIDE		
Weight	[lbs]	133.2	Total / Sensible capacity	[MBH]	293.3 / 293.3
Weight with fluid	[lbs]	161.8	LAT db	[°F]	67.11
Face area	[ft²]	18.83	Air pressure drop (Standard)	[in wg]	0.2754
			FLUID SIDE		
			Fluid pressure drop	[ft H2O]	5.218
			Fluid flow rate	[gpm]	27.70
			Leaving fluid temp.	[°F]	108.6
			Internal volume	[in³]	802.5
			Tubeside velocity	[ft/s]	4.165

NOTES FROM CALCULATIONS

A - Certified in accordance with the AHRI Forced-Circulation Air-Cooling and Air-Heating Coils Certification Program which is based on AHRI Standard 410 within the Range of Standard Rating Conditions listed in Table 1 of the Standard. Certified units may be found in the AHRI Directory at www.ahridirectory.org.

K - Face and row spacing on 1.5 inch centers.

L - Coil rating valid for Heatcraft coils only.

USER NOTES

COILCALC FLUID VERIFICATION

Customer		Date	7/7/2023 3:51:10 PM
Contact		By	Bennett Funderburk
Telephone		Company	Hoffman & Hoffman, Inc.
Email		Return telephone	9197818011
Project	(116102) Eli Lilly - Building 4 Concord	Email	bennett.funderburk@hoffman-hoffman.com

Saved run: 2655023
Item/Description RHC-4903A,D

CONSTRUCTION DATA

Model	5MI1101B - 33 x 36	Connection material	Carbon Steel
Coils per bank	1	Connection type	MPT
Coil duty	Heat-Return Bend	Connection rotation	None
Tube OD [in]	5/8	Connection size [in]	1.50
Fin spacing [/in]	11.00	Connection qty	1
Rows	1	Connection end	Same End
Fin surface	B		
Fin height x length [in]	33.00 x 36.00		
Circuiting	One Sixth		
Tube material [in]	0.035 Copper		
Fin material [in]	0.0095 Aluminum		

THERMODYNAMIC

AIR SIDE			FLUID SIDE		
Face velocity (Standard) [ft/min]	686.1		Fluid		Water
Air flow (Standard) [cfm]	5,660		Fouling factor		0
Altitude [ft]	705.0		Entering fluid temp. [°F]		130.0
EAT db [°F]	46.00		Fluid flow [gpm]		12.30
Fin fouling factor	0				

OPTIONS/SPECIALTIES

Casing material	Galvanized Steel
Casing type	Flanged
Coating	None
Hand	Right
Vent / Drain	.50 FPT on Face

RESULTS

CONSTRUCTION			AIR SIDE		
Weight [lbs]	74.58		Total / Sensible capacity [MBH]		129.5 / 129.5
Weight with fluid [lbs]	90.16		LAT db [°F]		67.10
Face area [ft²]	8.250		Air pressure drop (Standard) [in wg]		0.2186
			FLUID SIDE		
			Fluid pressure drop [ft H2O]		3.571
			Fluid flow rate [gpm]		12.30
			Leaving fluid temp. [°F]		108.7
			Internal volume [in³]		436.7
			Tubeside velocity [ft/s]		3.699

NOTES FROM CALCULATIONS

A - Certified in accordance with the AHRI Forced-Circulation Air-Cooling and Air-Heating Coils Certification Program which is based on AHRI Standard 410 within the Range of Standard Rating Conditions listed in Table 1 of the Standard. Certified units may be found in the AHRI Directory at www.ahridirectory.org.

K - Face and row spacing on 1.5 inch centers.

L - Coil rating valid for Heatcraft coils only.

USER NOTES

COILCALC FLUID VERIFICATION

Customer	Date	7/7/2023 3:51:10 PM
Contact	By	Bennett Funderburk
Telephone	Company	Hoffman & Hoffman, Inc.
Email	Return telephone	9197818011
Project (116102) Eli Lilly - Building 4 Concord	Email	bennett.funderburk@hoffman-hoffman.com

Saved run: 2675103
Item/Description RHC-4903B

CONSTRUCTION DATA

Model	5MI1101B - 33 x 36	Connection material	Carbon Steel
Coils per bank	1	Connection type	MPT
Coil duty	Heat-Return Bend	Connection rotation	None
Tube OD [in]	5/8	Connection size [in]	1.50
Fin spacing [in]	11.00	Connection qty	1
Rows	1	Connection end	Same End
Fin surface	B		
Fin height x length [in]	33.00 x 36.00		
Circuiting	One Sixth		
Tube material [in]	0.035 Copper		
Fin material [in]	0.0095 Aluminum		

THERMODYNAMIC

AIR SIDE			FLUID SIDE		
Face velocity (Standard) [ft/min]	686.1		Fluid		Water
Air flow (Standard) [cfm]	5,660		Fouling factor		0
Altitude [ft]	705.0		Entering fluid temp. [°F]		130.0
EAT db [°F]	46.00		Fluid flow [gpm]		12.30
Fin fouling factor	0				

OPTIONS/SPECIALTIES

Casing material	Galvanized Steel
Casing type	Flanged
Coating	None
Hand	Left
Vent / Drain	.50 FPT on Face

RESULTS

CONSTRUCTION			AIR SIDE		
Weight [lbs]	74.58		Total / Sensible capacity [MBH]		129.5 / 129.5
Weight with fluid [lbs]	90.16		LAT db [°F]		67.10
Face area [ft²]	8.250		Air pressure drop (Standard) [in wg]		0.2186
			FLUID SIDE		
			Fluid pressure drop [ft H2O]		3.571
			Fluid flow rate [gpm]		12.30
			Leaving fluid temp. [°F]		108.7
			Internal volume [in³]		436.7
			Tubeside velocity [ft/s]		3.699

NOTES FROM CALCULATIONS

A - Certified in accordance with the AHRI Forced-Circulation Air-Cooling and Air-Heating Coils Certification Program which is based on AHRI Standard 410 within the Range of Standard Rating Conditions listed in Table 1 of the Standard. Certified units may be found in the AHRI Directory at www.ahridirectory.org.

K - Face and row spacing on 1.5 inch centers.

L - Coil rating valid for Heatcraft coils only.

USER NOTES

COILCALC FLUID VERIFICATION

Customer		Date	7/7/2023 3:51:10 PM
Contact		By	Bennett Funderburk
Telephone		Company	Hoffman & Hoffman, Inc.
Email		Return telephone	9197818011
Project	(116102) Eli Lilly - Building 4 Concord	Email	bennett.funderburk@hoffman-hoffman.com

Saved run: 2656816
Item/Description RHC-4903C

CONSTRUCTION DATA

Model	5MQ1101B - 45 x 53	Connection material	Carbon Steel
Coils per bank	1	Connection type	MPT
Coil duty	Heat-Return Bend	Connection rotation	None
Tube OD [in]	5/8	Connection size [in]	1.50
Fin spacing [in]	11.00	Connection qty	1
Rows	1	Connection end	Same End
Fin surface	B		
Fin height x length [in]	45.00 x 53.00		
Circuiting	Quarter		
Tube material [in]	0.035 Copper		
Fin material [in]	0.0095 Aluminum		

THERMODYNAMIC

AIR SIDE

Face velocity (Standard) [ft/min]	699.2
Air flow (Standard) [cfm]	11,580
Altitude [ft]	705.0
EAT db [°F]	46.00
Fin fouling factor	0

FLUID SIDE

Fluid	Water
Fouling factor	0
Entering fluid temp. [°F]	130.0
Fluid flow [gpm]	25.10

OPTIONS/SPECIALTIES

Casing material	Galvanized Steel
Casing type	Flanged
Coating	None
Hand	Right
Vent / Drain	.50 FPT on Face

RESULTS

CONSTRUCTION

Weight [lbs]	123.3
Weight with fluid [lbs]	149.0
Face area [ft²]	16.56

AIR SIDE

Total / Sensible capacity [MBH]	263.1 / 263.1
LAT db [°F]	66.95
Air pressure drop (Standard) [in wg]	0.2255

FLUID SIDE

Fluid pressure drop [ft H2O]	3.778
Fluid flow rate [gpm]	25.10
Leaving fluid temp. [°F]	108.8
Internal volume [in³]	721.5
Tubeside velocity [ft/s]	3.774

NOTES FROM CALCULATIONS

A - Certified in accordance with the AHRI Forced-Circulation Air-Cooling and Air-Heating Coils Certification Program which is based on AHRI Standard 410 within the Range of Standard Rating Conditions listed in Table 1 of the Standard. Certified units may be found in the AHRI Directory at www.ahridirectory.org.

K - Face and row spacing on 1.5 inch centers.

L - Coil rating valid for Heatcraft coils only.

USER NOTES

COILCALC FLUID VERIFICATION

Customer	Date	7/7/2023 3:51:10 PM
Contact	By	Bennett Funderburk
Telephone	Company	Hoffman & Hoffman, Inc.
Email	Return telephone	9197818011
Project (116102) Eli Lilly - Building 4 Concord	Email	bennett.funderburk@hoffman-hoffman.com

Saved run: 2656817
Item/Description RHC-4904A

CONSTRUCTION DATA

Model	5MQ1101B - 43.5 x 45	Connection material	Carbon Steel
Coils per bank	1	Connection type	MPT
Coil duty	Heat-Return Bend	Connection rotation	None
Tube OD [in]	5/8	Connection size [in]	1.50
Fin spacing [/in]	11.00	Connection qty	1
Rows	1	Connection end	Same End
Fin surface	B		
Fin height x length [in]	43.50 x 45.00		
Circuiting	Quarter		
Tube material [in]	0.035 Copper		
Fin material [in]	0.0095 Aluminum		

THERMODYNAMIC

AIR SIDE			FLUID SIDE		
Face velocity (Standard)	[ft/min]	676.8	Fluid		Water
Air flow (Standard)	[cfm]	9,200	Fouling factor		0
Altitude	[ft]	705.0	Entering fluid temp.	[°F]	130.0
EAT db	[°F]	46.00	Fluid flow	[gpm]	19.60
Fin fouling factor		0			

OPTIONS/SPECIALTIES

Casing material	Galvanized Steel
Casing type	Flanged
Coating	None
Hand	Left
Vent / Drain	.50 FPT on Face

RESULTS

CONSTRUCTION			AIR SIDE		
Weight	[lbs]	107.6	Total / Sensible capacity	[MBH]	205.7 / 205.7
Weight with fluid	[lbs]	130.3	LAT db	[°F]	66.62
Face area	[ft²]	13.59	Air pressure drop (Standard)	[in wg]	0.2138
			FLUID SIDE		
			Fluid pressure drop	[ft H2O]	2.300
			Fluid flow rate	[gpm]	19.60
			Leaving fluid temp.	[°F]	108.8
			Internal volume	[in³]	636.1
			Tubeside velocity	[ft/s]	2.947

NOTES FROM CALCULATIONS

A - Certified in accordance with the AHRI Forced-Circulation Air-Cooling and Air-Heating Coils Certification Program which is based on AHRI Standard 410 within the Range of Standard Rating Conditions listed in Table 1 of the Standard. Certified units may be found in the AHRI Directory at www.ahridirectory.org.

K - Face and row spacing on 1.5 inch centers.

L - Coil rating valid for Heatcraft coils only.

USER NOTES

COILCALC FLUID VERIFICATION

Customer	Date	7/7/2023 3:51:10 PM
Contact	By	Bennett Funderburk
Telephone	Company	Hoffman & Hoffman, Inc.
Email	Return telephone	9197818011
Project (116102) Eli Lilly - Building 4 Concord	Email	bennett.funderburk@hoffman-hoffman.com

Saved run: 2656818
Item/Description RHC-4904D

CONSTRUCTION DATA

Model	5MQ1101B - 46.5 x 61	Connection material	Carbon Steel
Coils per bank	1	Connection type	MPT
Coil duty	Heat-Return Bend	Connection rotation	None
Tube OD [in]	5/8	Connection size [in]	1.50
Fin spacing [in]	11.00	Connection qty	1
Rows	1	Connection end	Same End
Fin surface	B		
Fin height x length [in]	46.50 x 61.00		
Circuiting	Quarter		
Tube material [in]	0.035 Copper		
Fin material [in]	0.0095 Aluminum		

THERMODYNAMIC

AIR SIDE			FLUID SIDE		
Face velocity (Standard)	[ft/min]	697.5	Fluid		Water
Air flow (Standard)	[cfm]	13,740	Fouling factor		0
Altitude	[ft]	705.0	Entering fluid temp.	[°F]	130.0
EAT db	[°F]	46.00	Fluid flow	[gpm]	29.70
Fin fouling factor		0			

OPTIONS/SPECIALTIES

Casing material	Galvanized Steel
Casing type	Flanged
Coating	None
Hand	Left
Vent / Drain	.50 FPT on Face

RESULTS

CONSTRUCTION			AIR SIDE		
Weight	[lbs]	139.6	Total / Sensible capacity	[MBH]	314.1 / 314.1
Weight with fluid	[lbs]	168.5	LAT db	[°F]	67.08
Face area	[ft²]	19.70	Air pressure drop (Standard)	[in wg]	0.2246
			FLUID SIDE		
			Fluid pressure drop	[ft H2O]	4.680
			Fluid flow rate	[gpm]	29.70
			Leaving fluid temp.	[°F]	108.6
			Internal volume	[in³]	812.0
			Tubeside velocity	[ft/s]	3.969

NOTES FROM CALCULATIONS

A - Certified in accordance with the AHRI Forced-Circulation Air-Cooling and Air-Heating Coils Certification Program which is based on AHRI Standard 410 within the Range of Standard Rating Conditions listed in Table 1 of the Standard. Certified units may be found in the AHRI Directory at www.ahridirectory.org.

K - Face and row spacing on 1.5 inch centers.

L - Coil rating valid for Heatcraft coils only.

USER NOTES

COILCALC FLUID VERIFICATION

Customer	Date	7/7/2023 3:51:10 PM
Contact	By	Bennett Funderburk
Telephone	Company	Hoffman & Hoffman, Inc.
Email	Return telephone	9197818011
Project (116102) Eli Lilly - Building 4 Concord	Email	bennett.funderburk@hoffman-hoffman.com

Saved run: 2656819
Item/Description RHC-4905A

CONSTRUCTION DATA

Model	5MQ1101B - 46.5 x 62	Connection material	Carbon Steel
Coils per bank	1	Connection type	MPT
Coil duty	Heat-Return Bend	Connection rotation	None
Tube OD [in]	5/8	Connection size [in]	1.50
Fin spacing [in]	11.00	Connection qty	1
Rows	1	Connection end	Same End
Fin surface	B		
Fin height x length [in]	46.50 x 62.00		
Circuiting	Quarter		
Tube material [in]	0.035 Copper		
Fin material [in]	0.0095 Aluminum		

THERMODYNAMIC

AIR SIDE			FLUID SIDE		
Face velocity (Standard)	[ft/min]	698.3	Fluid		Water
Air flow (Standard)	[cfm]	13,980	Fouling factor		0
Altitude	[ft]	705.0	Entering fluid temp.	[°F]	130.0
EAT db	[°F]	46.00	Fluid flow	[gpm]	30.20
Fin fouling factor		0			

OPTIONS/SPECIALTIES

Casing material	Galvanized Steel
Casing type	Flanged
Coating	None
Hand	Right
Vent / Drain	.50 FPT on Face

RESULTS

CONSTRUCTION			AIR SIDE		
Weight	[lbs]	141.2	Total / Sensible capacity	[MBH]	319.9 / 319.9
Weight with fluid	[lbs]	170.7	LAT db	[°F]	67.10
Face area	[ft²]	20.02	Air pressure drop (Standard)	[in wg]	0.2250
			FLUID SIDE		
			Fluid pressure drop	[ft H2O]	4.855
			Fluid flow rate	[gpm]	30.20
			Leaving fluid temp.	[°F]	108.6
			Internal volume	[in³]	828.5
			Tubeside velocity	[ft/s]	4.036

NOTES FROM CALCULATIONS

A - Certified in accordance with the AHRI Forced-Circulation Air-Cooling and Air-Heating Coils Certification Program which is based on AHRI Standard 410 within the Range of Standard Rating Conditions listed in Table 1 of the Standard. Certified units may be found in the AHRI Directory at www.ahridirectory.org.

K - Face and row spacing on 1.5 inch centers.

L - Coil rating valid for Heatcraft coils only.

USER NOTES

COILCALC FLUID VERIFICATION

Customer	Date	7/7/2023 3:51:10 PM
Contact	By	Bennett Funderburk
Telephone	Company	Hoffman & Hoffman, Inc.
Email	Return telephone	9197818011
Project (116102) Eli Lilly - Building 4 Concord	Email	bennett.funderburk@hoffman-hoffman.com

Saved run: 2656820
Item/Description RHC-4905C

CONSTRUCTION DATA

Model	5MQ1101B - 40.5 x 43	Connection material	Carbon Steel
Coils per bank	1	Connection type	MPT
Coil duty	Heat-Return Bend	Connection rotation	None
Tube OD [in]	5/8	Connection size [in]	1.50
Fin spacing [in]	11.00	Connection qty	1
Rows	1	Connection end	Same End
Fin surface	B		
Fin height x length [in]	40.50 x 43.00		
Circuiting	Quarter		
Tube material [in]	0.035 Copper		
Fin material [in]	0.0095 Aluminum		

THERMODYNAMIC

AIR SIDE			FLUID SIDE		
Face velocity (Standard)	[ft/min]	699.5	Fluid		Water
Air flow (Standard)	[cfm]	8,460	Fouling factor		0
Altitude	[ft]	705.0	Entering fluid temp.	[°F]	130.0
EAT db	[°F]	46.00	Fluid flow	[gpm]	18.30
Fin fouling factor		0			

OPTIONS/SPECIALTIES

Casing material	Galvanized Steel
Casing type	Flanged
Coating	None
Hand	Left
Vent / Drain	.50 FPT on Face

RESULTS

CONSTRUCTION			AIR SIDE		
Weight	[lbs]	98.49	Total / Sensible capacity	[MBH]	184.9 / 184.9
Weight with fluid	[lbs]	119.2	LAT db	[°F]	66.16
Face area	[ft²]	12.09	Air pressure drop (Standard)	[in wg]	0.2257
			FLUID SIDE		
			Fluid pressure drop	[ft H2O]	1.995
			Fluid flow rate	[gpm]	18.30
			Leaving fluid temp.	[°F]	109.6
			Internal volume	[in³]	579.2
			Tubeside velocity	[ft/s]	2.751

NOTES FROM CALCULATIONS

A - Certified in accordance with the AHRI Forced-Circulation Air-Cooling and Air-Heating Coils Certification Program which is based on AHRI Standard 410 within the Range of Standard Rating Conditions listed in Table 1 of the Standard. Certified units may be found in the AHRI Directory at www.ahridirectory.org.

K - Face and row spacing on 1.5 inch centers.

L - Coil rating valid for Heatcraft coils only.

USER NOTES

COILCALC FLUID VERIFICATION

Customer	Date	7/7/2023 3:51:11 PM
Contact	By	Bennett Funderburk
Telephone	Company	Hoffman & Hoffman, Inc.
Email	Return telephone	9197818011
Project (116102) Eli Lilly - Building 4 Concord	Email	bennett.funderburk@hoffman-hoffman.com

Saved run: 2656821
Item/Description RHC-4905D

CONSTRUCTION DATA

Model	5MQ1101B - 46.5 x 60	Connection material	Carbon Steel
Coils per bank	1	Connection type	MPT
Coil duty	Heat-Return Bend	Connection rotation	None
Tube OD [in]	5/8	Connection size [in]	1.50
Fin spacing [/in]	11.00	Connection qty	1
Rows	1	Connection end	Same End
Fin surface	B		
Fin height x length [in]	46.50 x 60.00		
Circuiting	Quarter		
Tube material [in]	0.035 Copper		
Fin material [in]	0.0095 Aluminum		

THERMODYNAMIC

AIR SIDE			FLUID SIDE		
Face velocity (Standard)	[ft/min]	698.8	Fluid		Water
Air flow (Standard)	[cfm]	13,540	Fouling factor		0
Altitude	[ft]	705.0	Entering fluid temp.	[°F]	130.0
EAT db	[°F]	46.00	Fluid flow	[gpm]	29.30
Fin fouling factor		0			

OPTIONS/SPECIALTIES

Casing material	Galvanized Steel
Casing type	Flanged
Coating	None
Hand	Right
Vent / Drain	.50 FPT on Face

RESULTS

CONSTRUCTION			AIR SIDE		
Weight	[lbs]	137.9	Total / Sensible capacity	[MBH]	308.8 / 308.8
Weight with fluid	[lbs]	166.9	LAT db	[°F]	67.03
Face area	[ft²]	19.38	Air pressure drop (Standard)	[in wg]	0.2253
			FLUID SIDE		
			Fluid pressure drop	[ft H2O]	4.538
			Fluid flow rate	[gpm]	29.30
			Leaving fluid temp.	[°F]	108.7
			Internal volume	[in³]	812.0
			Tubeside velocity	[ft/s]	3.916

NOTES FROM CALCULATIONS

A - Certified in accordance with the AHRI Forced-Circulation Air-Cooling and Air-Heating Coils Certification Program which is based on AHRI Standard 410 within the Range of Standard Rating Conditions listed in Table 1 of the Standard. Certified units may be found in the AHRI Directory at www.ahridirectory.org.

K - Face and row spacing on 1.5 inch centers.

L - Coil rating valid for Heatcraft coils only.

USER NOTES

COILCALC FLUID VERIFICATION

Customer	Date	7/7/2023 3:51:11 PM
Contact	By	Bennett Funderburk
Telephone	Company	Hoffman & Hoffman, Inc.
Email	Return telephone	9197818011
Project (116102) Eli Lilly - Building 4 Concord	Email	bennett.funderburk@hoffman-hoffman.com

Saved run: 2656823
Item/Description RHC-4906A

CONSTRUCTION DATA

Model	5M1101B - 34.5 x 38	Connection material	Carbon Steel
Coils per bank	1	Connection type	MPT
Coil duty	Heat-Return Bend	Connection rotation	None
Tube OD [in]	5/8	Connection size [in]	1.50
Fin spacing [in]	11.00	Connection qty	1
Rows	1	Connection end	Same End
Fin surface	B		
Fin height x length [in]	34.50 x 38.00		
Circuiting	One Sixth		
Tube material [in]	0.035 Copper		
Fin material [in]	0.0095 Aluminum		

THERMODYNAMIC

AIR SIDE			FLUID SIDE		
Face velocity (Standard)	[ft/min]	694.2	Fluid		Water
Air flow (Standard)	[cfm]	6,320	Fouling factor		0
Altitude	[ft]	705.0	Entering fluid temp.	[°F]	130.0
EAT db	[°F]	46.00	Fluid flow	[gpm]	13.90
Fin fouling factor		0			

OPTIONS/SPECIALTIES

Casing material	Galvanized Steel
Casing type	Flanged
Coating	None
Hand	Left
Vent / Drain	.50 FPT on Face

RESULTS

CONSTRUCTION			AIR SIDE		
Weight	[lbs]	79.92	Total / Sensible capacity	[MBH]	145.9 / 145.9
Weight with fluid	[lbs]	96.62	LAT db	[°F]	67.29
Face area	[ft²]	9.104	Air pressure drop (Standard)	[in wg]	0.2229
			FLUID SIDE		
			Fluid pressure drop	[ft H2O]	4.658
			Fluid flow rate	[gpm]	13.90
			Leaving fluid temp.	[°F]	108.8
			Internal volume	[in³]	468.1
			Tubeside velocity	[ft/s]	4.180

NOTES FROM CALCULATIONS

A - Certified in accordance with the AHRI Forced-Circulation Air-Cooling and Air-Heating Coils Certification Program which is based on AHRI Standard 410 within the Range of Standard Rating Conditions listed in Table 1 of the Standard. Certified units may be found in the AHRI Directory at www.ahridirectory.org.

K - Face and row spacing on 1.5 inch centers.

L - Coil rating valid for Heatcraft coils only.

USER NOTES

COILCALC FLUID VERIFICATION

Customer	Date	7/7/2023 3:51:11 PM
Contact	By	Bennett Funderburk
Telephone	Company	Hoffman & Hoffman, Inc.
Email	Return telephone	9197818011
Project (116102) Eli Lilly - Building 4 Concord	Email	bennett.funderburk@hoffman-hoffman.com

Saved run: 2676434
Item/Description RHC-4906B

CONSTRUCTION DATA

Model	5MI1101B - 34.5 x 38	Connection material	Carbon Steel
Coils per bank	1	Connection type	MPT
Coil duty	Heat-Return Bend	Connection rotation	None
Tube OD [in]	5/8	Connection size [in]	1.50
Fin spacing [in]	11.00	Connection qty	1
Rows	1	Connection end	Same End
Fin surface	B		
Fin height x length [in]	34.50 x 38.00		
Circuiting	One Sixth		
Tube material [in]	0.035 Copper		
Fin material [in]	0.0095 Aluminum		

THERMODYNAMIC

AIR SIDE			FLUID SIDE		
Face velocity (Standard)	[ft/min]	694.2	Fluid		Water
Air flow (Standard)	[cfm]	6,320	Fouling factor		0
Altitude	[ft]	705.0	Entering fluid temp.	[°F]	130.0
EAT db	[°F]	46.00	Fluid flow	[gpm]	13.90
Fin fouling factor		0			

OPTIONS/SPECIALTIES

Casing material	Galvanized Steel
Casing type	Flanged
Coating	None
Hand	Right
Vent / Drain	.50 FPT on Face

RESULTS

CONSTRUCTION			AIR SIDE		
Weight	[lbs]	79.92	Total / Sensible capacity	[MBH]	145.9 / 145.9
Weight with fluid	[lbs]	96.62	LAT db	[°F]	67.29
Face area	[ft²]	9.104	Air pressure drop (Standard)	[in wg]	0.2229
			FLUID SIDE		
			Fluid pressure drop	[ft H2O]	4.658
			Fluid flow rate	[gpm]	13.90
			Leaving fluid temp.	[°F]	108.8
			Internal volume	[in³]	468.1
			Tubeside velocity	[ft/s]	4.180

NOTES FROM CALCULATIONS

A - Certified in accordance with the AHRI Forced-Circulation Air-Cooling and Air-Heating Coils Certification Program which is based on AHRI Standard 410 within the Range of Standard Rating Conditions listed in Table 1 of the Standard. Certified units may be found in the AHRI Directory at www.ahridirectory.org.

K - Face and row spacing on 1.5 inch centers.

L - Coil rating valid for Heatcraft coils only.

USER NOTES

COILCALC FLUID VERIFICATION

Customer	Date	7/7/2023 3:51:11 PM
Contact	By	Bennett Funderburk
Telephone	Company	Hoffman & Hoffman, Inc.
Email	Return telephone	9197818011
Project (116102) Eli Lilly - Building 4 Concord	Email	bennett.funderburk@hoffman-hoffman.com

Saved run: 2656824
Item/Description RHC-4906C

CONSTRUCTION DATA

Model	5MQ1101B - 36 x 43	Connection material	Carbon Steel
Coils per bank	1	Connection type	MPT
Coil duty	Heat-Return Bend	Connection rotation	None
Tube OD [in]	5/8	Connection size [in]	1.50
Fin spacing [in]	11.00	Connection qty	1
Rows	1	Connection end	Same End
Fin surface	B		
Fin height x length [in]	36.00 x 43.00		
Circuiting	Quarter		
Tube material [in]	0.035 Copper		
Fin material [in]	0.0095 Aluminum		

THERMODYNAMIC

AIR SIDE			FLUID SIDE		
Face velocity (Standard) [ft/min]	680.9		Fluid		Water
Air flow (Standard) [cfm]	7,320		Fouling factor		0
Altitude [ft]	705.0		Entering fluid temp. [°F]		130.0
EAT db [°F]	46.00		Fluid flow [gpm]		18.00
Fin fouling factor	0				

OPTIONS/SPECIALTIES

Casing material	Galvanized Steel
Casing type	Flanged
Coating	None
Hand	Left
Vent / Drain	.50 FPT on Face

RESULTS

CONSTRUCTION			AIR SIDE		
Weight [lbs]	89.42		Total / Sensible capacity [MBH]		170.5 / 170.5
Weight with fluid [lbs]	107.8		LAT db [°F]		67.48
Face area [ft²]	10.75		Air pressure drop (Standard) [in wg]		0.2159
			FLUID SIDE		
			Fluid pressure drop [ft H2O]		3.244
			Fluid flow rate [gpm]		18.00
			Leaving fluid temp. [°F]		110.8
			Internal volume [in³]		515.2
			Tubeside velocity [ft/s]		3.608

NOTES FROM CALCULATIONS

A - Certified in accordance with the AHRI Forced-Circulation Air-Cooling and Air-Heating Coils Certification Program which is based on AHRI Standard 410 within the Range of Standard Rating Conditions listed in Table 1 of the Standard. Certified units may be found in the AHRI Directory at www.ahridirectory.org.

K - Face and row spacing on 1.5 inch centers.

L - Coil rating valid for Heatcraft coils only.

USER NOTES

COILCALC FLUID VERIFICATION

Customer	Date	7/7/2023 3:51:11 PM
Contact	By	Bennett Funderburk
Telephone	Company	Hoffman & Hoffman, Inc.
Email	Return telephone	9197818011
Project (116102) Eli Lilly - Building 4 Concord	Email	bennett.funderburk@hoffman-hoffman.com

Saved run: 2656825
Item/Description RHC-4906D

CONSTRUCTION DATA

Model	5MI1101B - 34.5 x 38	Connection material	Carbon Steel
Coils per bank	1	Connection type	MPT
Coil duty	Heat-Return Bend	Connection rotation	None
Tube OD [in]	5/8	Connection size [in]	1.50
Fin spacing [/in]	11.00	Connection qty	1
Rows	1	Connection end	Same End
Fin surface	B		
Fin height x length [in]	34.50 x 38.00		
Circuiting	One Sixth		
Tube material [in]	0.035 Copper		
Fin material [in]	0.0095 Aluminum		

THERMODYNAMIC

AIR SIDE			FLUID SIDE		
Face velocity (Standard)	[ft/min]	694.2	Fluid		Water
Air flow (Standard)	[cfm]	6,320	Fouling factor		0
Altitude	[ft]	705.0	Entering fluid temp.	[°F]	130.0
EAT db	[°F]	46.00	Fluid flow	[gpm]	13.90
Fin fouling factor		0			

OPTIONS/SPECIALTIES

Casing material	Galvanized Steel
Casing type	Flanged
Coating	None
Hand	Left
Vent / Drain	.50 FPT on Face

RESULTS

CONSTRUCTION			AIR SIDE		
Weight	[lbs]	79.92	Total / Sensible capacity	[MBH]	145.9 / 145.9
Weight with fluid	[lbs]	96.62	LAT db	[°F]	67.29
Face area	[ft²]	9.104	Air pressure drop (Standard)	[in wg]	0.2229
			FLUID SIDE		
			Fluid pressure drop	[ft H2O]	4.658
			Fluid flow rate	[gpm]	13.90
			Leaving fluid temp.	[°F]	108.8
			Internal volume	[in³]	468.1
			Tubeside velocity	[ft/s]	4.180

NOTES FROM CALCULATIONS

A - Certified in accordance with the AHRI Forced-Circulation Air-Cooling and Air-Heating Coils Certification Program which is based on AHRI Standard 410 within the Range of Standard Rating Conditions listed in Table 1 of the Standard. Certified units may be found in the AHRI Directory at www.ahridirectory.org.

K - Face and row spacing on 1.5 inch centers.

L - Coil rating valid for Heatcraft coils only.

USER NOTES

COILCALC FLUID VERIFICATION

Customer	Date	7/7/2023 3:51:11 PM
Contact	By	Bennett Funderburk
Telephone	Company	Hoffman & Hoffman, Inc.
Email	Return telephone	9197818011
Project (116102) Eli Lilly - Building 4 Concord	Email	bennett.funderburk@hoffman-hoffman.com

Saved run: 2656852
Item/Description RHC-4910A

CONSTRUCTION DATA

Model	5MQ1101B - 45 x 54	Connection material	Carbon Steel
Coils per bank	1	Connection type	MPT
Coil duty	Heat-Return Bend	Connection rotation	None
Tube OD [in]	5/8	Connection size [in]	1.50
Fin spacing [in]	11.00	Connection qty	1
Rows	1	Connection end	Same End
Fin surface	B		
Fin height x length [in]	45.00 x 54.00		
Circuiting	Quarter		
Tube material [in]	0.035 Copper		
Fin material [in]	0.0095 Aluminum		

THERMODYNAMIC

AIR SIDE			FLUID SIDE		
Face velocity (Standard)	[ft/min]	693.0	Fluid		Water
Air flow (Standard)	[cfm]	11,695	Fouling factor		0
Altitude	[ft]	705.0	Entering fluid temp.	[°F]	130.0
EAT db	[°F]	46.00	Fluid flow	[gpm]	25.30
Fin fouling factor		0			

OPTIONS/SPECIALTIES

Casing material	Galvanized Steel
Casing type	Flanged
Coating	None
Hand	Left
Vent / Drain	.50 FPT on Face

RESULTS

CONSTRUCTION			AIR SIDE		
Weight	[lbs]	124.8	Total / Sensible capacity	[MBH]	267.0 / 267.0
Weight with fluid	[lbs]	151.2	LAT db	[°F]	67.05
Face area	[ft²]	16.88	Air pressure drop (Standard)	[in wg]	0.2223
			FLUID SIDE		
			Fluid pressure drop	[ft H2O]	3.858
			Fluid flow rate	[gpm]	25.30
			Leaving fluid temp.	[°F]	108.7
			Internal volume	[in³]	737.5
			Tubeside velocity	[ft/s]	3.804

NOTES FROM CALCULATIONS

A - Certified in accordance with the AHRI Forced-Circulation Air-Cooling and Air-Heating Coils Certification Program which is based on AHRI Standard 410 within the Range of Standard Rating Conditions listed in Table 1 of the Standard. Certified units may be found in the AHRI Directory at www.ahridirectory.org.

K - Face and row spacing on 1.5 inch centers.

L - Coil rating valid for Heatcraft coils only.

USER NOTES

COILCALC FLUID VERIFICATION

Customer	Date	7/7/2023 3:51:11 PM
Contact	By	Bennett Funderburk
Telephone	Company	Hoffman & Hoffman, Inc.
Email	Return telephone	9197818011
Project (116102) Eli Lilly - Building 4 Concord	Email	bennett.funderburk@hoffman-hoffman.com

Saved run: 2656853
Item/Description RHC-4910B

CONSTRUCTION DATA

Model	5MQ1101B - 45 x 57	Connection material	Carbon Steel
Coils per bank	1	Connection type	MPT
Coil duty	Heat-Return Bend	Connection rotation	None
Tube OD [in]	5/8	Connection size [in]	1.50
Fin spacing [in]	11.00	Connection qty	1
Rows	1	Connection end	Same End
Fin surface	B		
Fin height x length [in]	45.00 x 57.00		
Circuiting	Quarter		
Tube material [in]	0.035 Copper		
Fin material [in]	0.0095 Aluminum		

THERMODYNAMIC

AIR SIDE			FLUID SIDE		
Face velocity (Standard) [ft/min]	695.3		Fluid		Water
Air flow (Standard) [cfm]	12,385		Fouling factor		0
Altitude [ft]	705.0		Entering fluid temp. [°F]		130.0
EAT db [°F]	46.00		Fluid flow [gpm]		26.70
Fin fouling factor	0				

OPTIONS/SPECIALTIES

Casing material	Galvanized Steel
Casing type	Flanged
Coating	None
Hand	Right
Vent / Drain	.50 FPT on Face

RESULTS

CONSTRUCTION			AIR SIDE		
Weight [lbs]	129.5		Total / Sensible capacity [MBH]		283.7 / 283.7
Weight with fluid [lbs]	156.4		LAT db [°F]		67.13
Face area [ft²]	17.81		Air pressure drop (Standard) [in wg]		0.2235
			FLUID SIDE		
			Fluid pressure drop [ft H2O]		4.341
			Fluid flow rate [gpm]		26.70
			Leaving fluid temp. [°F]		108.5
			Internal volume [in³]		753.5
			Tubeside velocity [ft/s]		4.014

NOTES FROM CALCULATIONS

A - Certified in accordance with the AHRI Forced-Circulation Air-Cooling and Air-Heating Coils Certification Program which is based on AHRI Standard 410 within the Range of Standard Rating Conditions listed in Table 1 of the Standard. Certified units may be found in the AHRI Directory at www.ahridirectory.org.

K - Face and row spacing on 1.5 inch centers.

L - Coil rating valid for Heatcraft coils only.

USER NOTES

COILCALC FLUID VERIFICATION

Customer	Date	7/7/2023 3:51:11 PM
Contact	By	Bennett Funderburk
Telephone	Company	Hoffman & Hoffman, Inc.
Email	Return telephone	9197818011
Project (116102) Eli Lilly - Building 4 Concord	Email	bennett.funderburk@hoffman-hoffman.com

Saved run: 2656854
Item/Description RHC-4910C

CONSTRUCTION DATA

Model	5MQ1001B - 52.5 x 69	Connection material	Carbon Steel
Coils per bank	1	Connection type	MPT
Coil duty	Heat-Return Bend	Connection rotation	None
Tube OD [in]	5/8	Connection size [in]	1.50
Fin spacing [/in]	10.00	Connection qty	1
Rows	1	Connection end	Same End
Fin surface	B		
Fin height x length [in]	52.50 x 69.00		
Circuiting	Quarter		
Tube material [in]	0.035 Copper		
Fin material [in]	0.0095 Aluminum		

THERMODYNAMIC

AIR SIDE			FLUID SIDE		
Face velocity (Standard)	[ft/min]	695.3	Fluid		Water
Air flow (Standard)	[cfm]	17,490	Fouling factor		0
Altitude	[ft]	705.0	Entering fluid temp.	[°F]	130.0
EAT db	[°F]	46.00	Fluid flow	[gpm]	37.60
Fin fouling factor		0			

OPTIONS/SPECIALTIES

Casing material	Galvanized Steel
Casing type	Flanged
Coating	None
Hand	Right
Vent / Drain	.50 FPT on Face

RESULTS

CONSTRUCTION			AIR SIDE		
Weight	[lbs]	165.0	Total / Sensible capacity	[MBH]	380.7 / 380.7
Weight with fluid	[lbs]	200.3	LAT db	[°F]	66.07
Face area	[ft²]	25.16	Air pressure drop (Standard)	[in wg]	0.2110
			FLUID SIDE		
			Fluid pressure drop	[ft H2O]	6.606
			Fluid flow rate	[gpm]	37.60
			Leaving fluid temp.	[°F]	109.5
			Internal volume	[in³]	989.8
			Tubeside velocity	[ft/s]	4.522

NOTES FROM CALCULATIONS

A - Certified in accordance with the AHRI Forced-Circulation Air-Cooling and Air-Heating Coils Certification Program which is based on AHRI Standard 410 within the Range of Standard Rating Conditions listed in Table 1 of the Standard. Certified units may be found in the AHRI Directory at www.ahridirectory.org.

K - Face and row spacing on 1.5 inch centers.

L - Coil rating valid for Heatcraft coils only.

USER NOTES

COILCALC FLUID VERIFICATION

Customer	Date	7/7/2023 3:51:11 PM
Contact	By	Bennett Funderburk
Telephone	Company	Hoffman & Hoffman, Inc.
Email	Return telephone	9197818011
Project (116102) Eli Lilly - Building 4 Concord	Email	bennett.funderburk@hoffman-hoffman.com

Saved run: 2656855
Item/Description RHC-4910D

CONSTRUCTION DATA

Model	5MQ1001B - 46.5 x 69	Connection material	Carbon Steel
Coils per bank	1	Connection type	MPT
Coil duty	Heat-Return Bend	Connection rotation	None
Tube OD [in]	5/8	Connection size [in]	1.50
Fin spacing [/in]	10.00	Connection qty	1
Rows	1	Connection end	Same End
Fin surface	B		
Fin height x length [in]	46.50 x 69.00		
Circuiting	Quarter		
Tube material [in]	0.035 Copper		
Fin material [in]	0.0095 Aluminum		

THERMODYNAMIC

AIR SIDE			FLUID SIDE		
Face velocity (Standard) [ft/min]	678.1		Fluid		Water
Air flow (Standard) [cfm]	15,110		Fouling factor		0
Altitude [ft]	705.0		Entering fluid temp. [°F]		130.0
EAT db [°F]	46.00		Fluid flow [gpm]		32.70
Fin fouling factor	0				

OPTIONS/SPECIALTIES

Casing material	Galvanized Steel
Casing type	Flanged
Coating	None
Hand	Left
Vent / Drain	.50 FPT on Face

RESULTS

CONSTRUCTION			AIR SIDE		
Weight [lbs]	149.2		Total / Sensible capacity [MBH]		332.0 / 332.0
Weight with fluid [lbs]	180.6		LAT db [°F]		66.26
Face area [ft²]	22.28		Air pressure drop (Standard) [in wg]		0.2024
			FLUID SIDE		
			Fluid pressure drop [ft H2O]		5.842
			Fluid flow rate [gpm]		32.70
			Leaving fluid temp. [°F]		109.5
			Internal volume [in³]		878.2
			Tubeside velocity [ft/s]		4.370

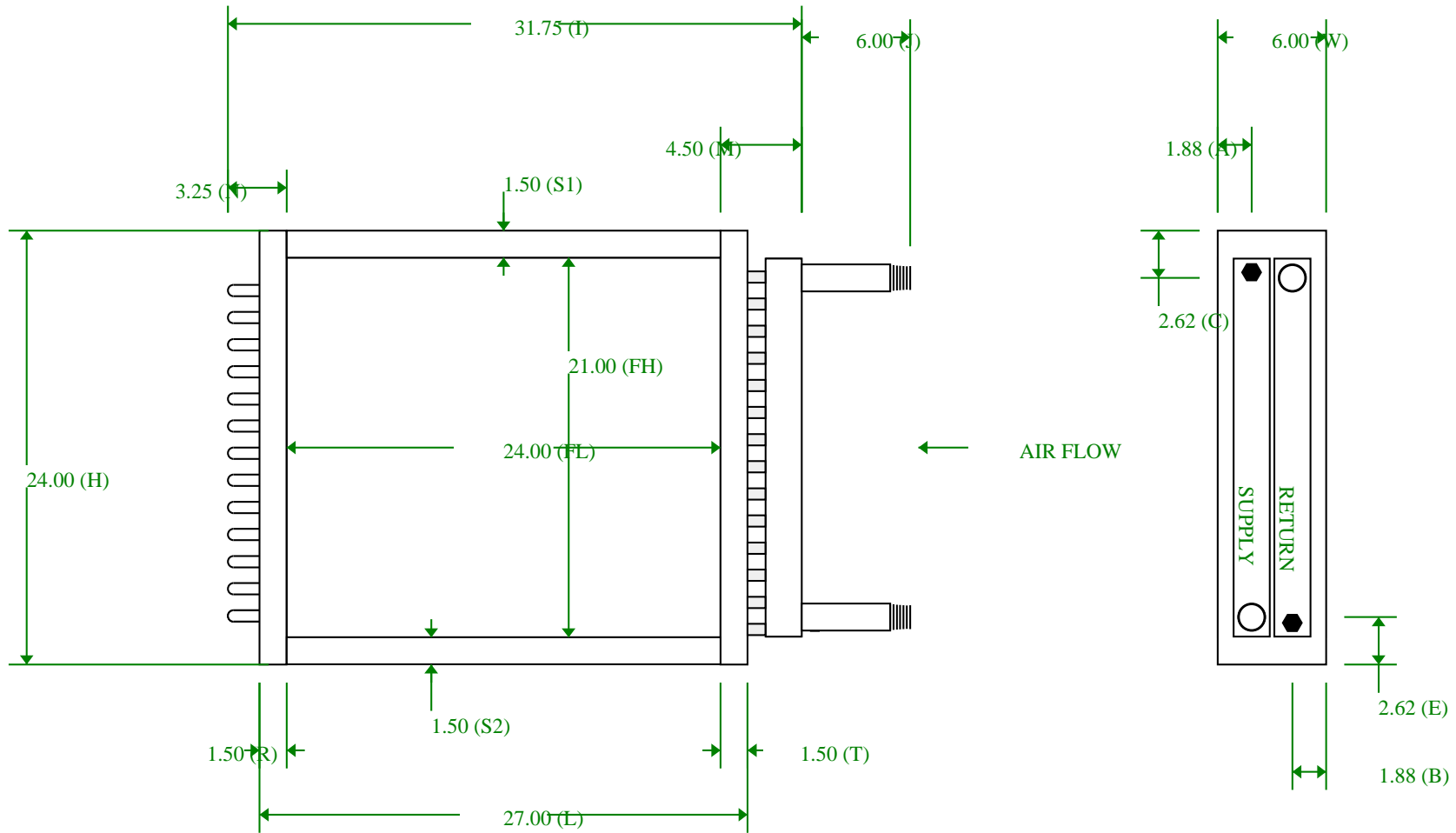
NOTES FROM CALCULATIONS

A - Certified in accordance with the AHRI Forced-Circulation Air-Cooling and Air-Heating Coils Certification Program which is based on AHRI Standard 410 within the Range of Standard Rating Conditions listed in Table 1 of the Standard. Certified units may be found in the AHRI Directory at www.ahridirectory.org.

K - Face and row spacing on 1.5 inch centers.

L - Coil rating valid for Heatcraft coils only.

USER NOTES



General Notes

1. All dimensions are in inches.
2. Manually verifying dimensions is highly recommended.
3. The supply line should be connected to the lower connection on the leaving air side for counterflow operation.
4. Coils will vent and drain through factory-installed vent and drain fittings when mounted level for horizontal flow.
5. Connection location other than standard could affect vent and drain locations. Consult factory.

Options

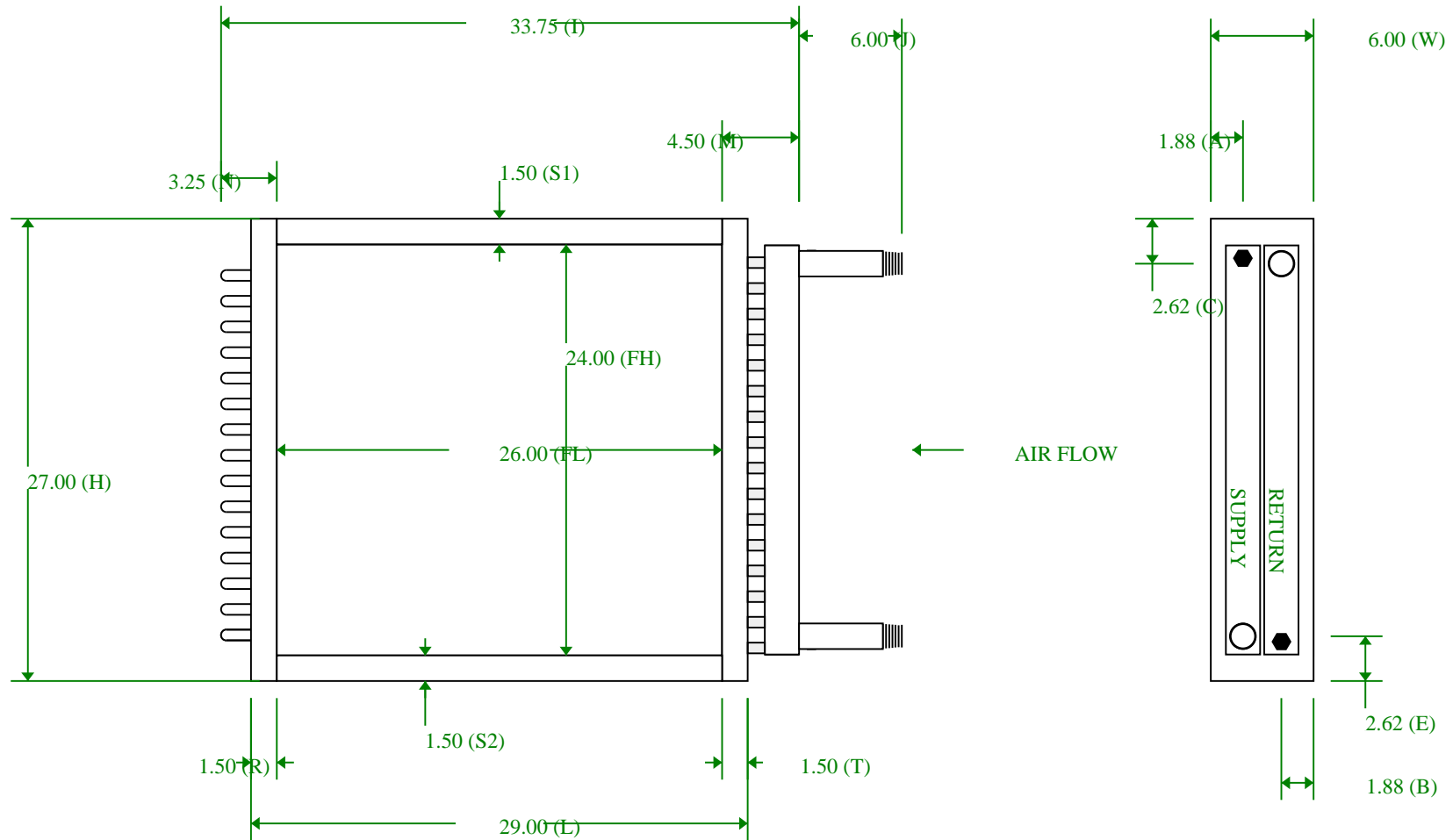
Casing type: Flanged
 Fluid: Water
 Vent/Drain: .50 FPT on Face

Materials of Construction

Tube [in]: 5/8 x 0.035 Copper
 Fin [in]: 12 FPI, 0.0095 Aluminum
 Rows: 1
 Casing material: Galvanized Steel
 Hand: Left
 Conn. material: Carbon Steel
 Conn. type: MPT
 Conn. qty: 1
 Conn. size [in]: 1.50 Same End
 Weight [lbs]: 41.79



Date: 07-07-2023
Item: RHC-4101A
Quantity: 1
Model: 5MI1201B - 21 x 24
Project: (116102) Eli Lilly - Building 4 Concord
Saved run:



General Notes

1. All dimensions are in inches.
2. Manually verifying dimensions is highly recommended.
3. The supply line should be connected to the lower connection on the leaving air side for counterflow operation.
4. Coils will vent and drain through factory-installed vent and drain fittings when mounted level for horizontal flow.
5. Connection location other than standard could affect vent and drain locations. Consult factory.

Options

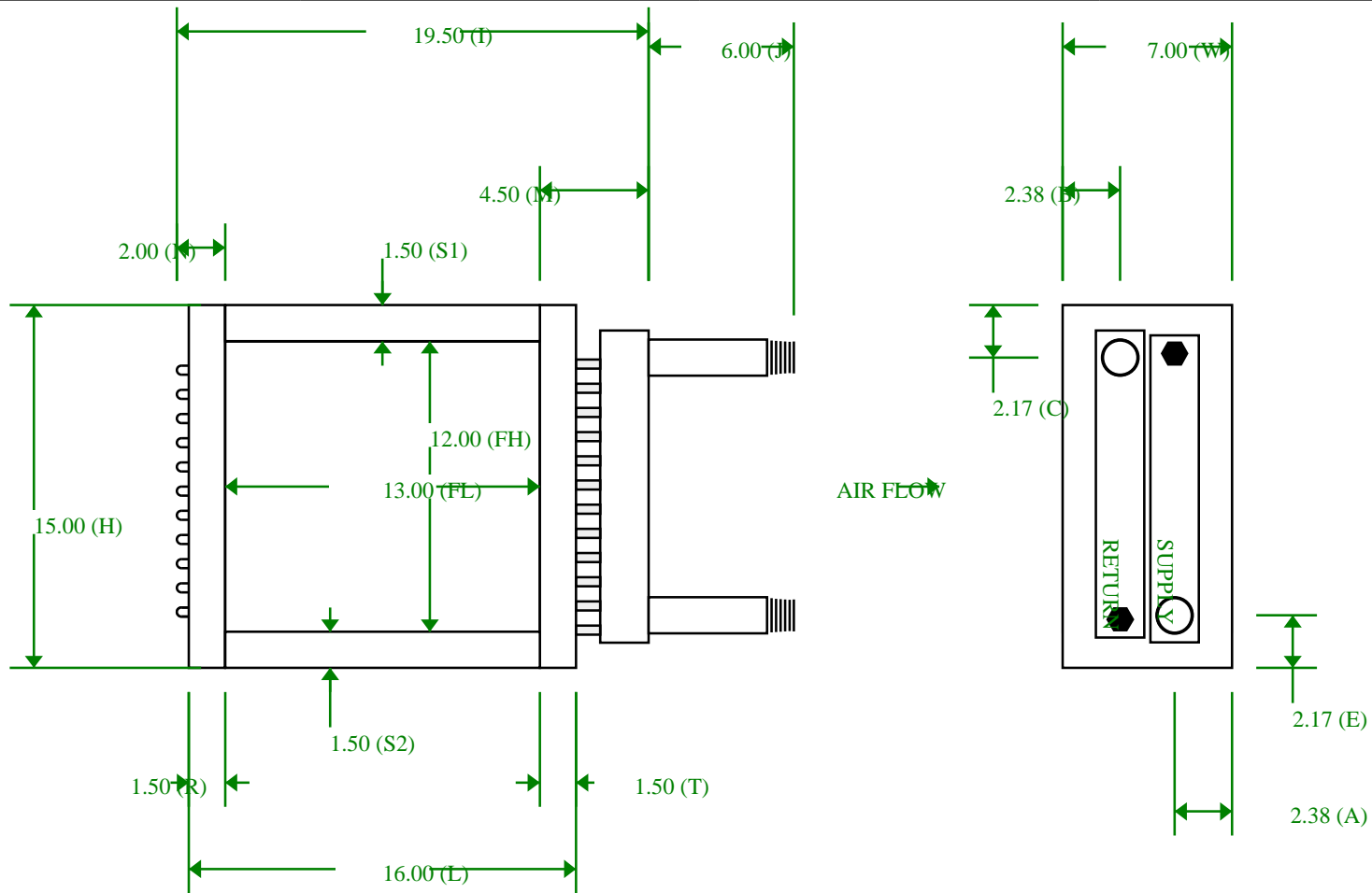
Casing type: Flanged
 Fluid: Water
 Vent/Drain: .50 FPT on Face

Materials of Construction

Tube [in]: 5/8 x 0.035 Copper
 Fin [in]: 12 FPI, 0.0095 Aluminum
 Rows: 1
 Casing material: Galvanized Steel
 Hand: Left
 Conn. material: Carbon Steel
 Conn. type: MPT
 Conn. qty: 1
 Conn. size [in]: 1.50 Same End
 Weight [lbs]: 48.50



Date: 07-07-2023
Item: RHC-4101B
Quantity: 1
Model: 5M1201C - 24 x 26
Project: (116102) Eli Lilly - Building 4 Concord
Saved run:



General Notes

1. All dimensions are in inches.
2. Manually verifying dimensions is highly recommended.
3. The supply line should be connected to the lower connection on the leaving air side for counterflow operation.
4. Coils will vent and drain through factory-installed vent and drain fittings when mounted level for horizontal flow.
5. Connection location other than standard could affect vent and drain locations. Consult factory.

Options

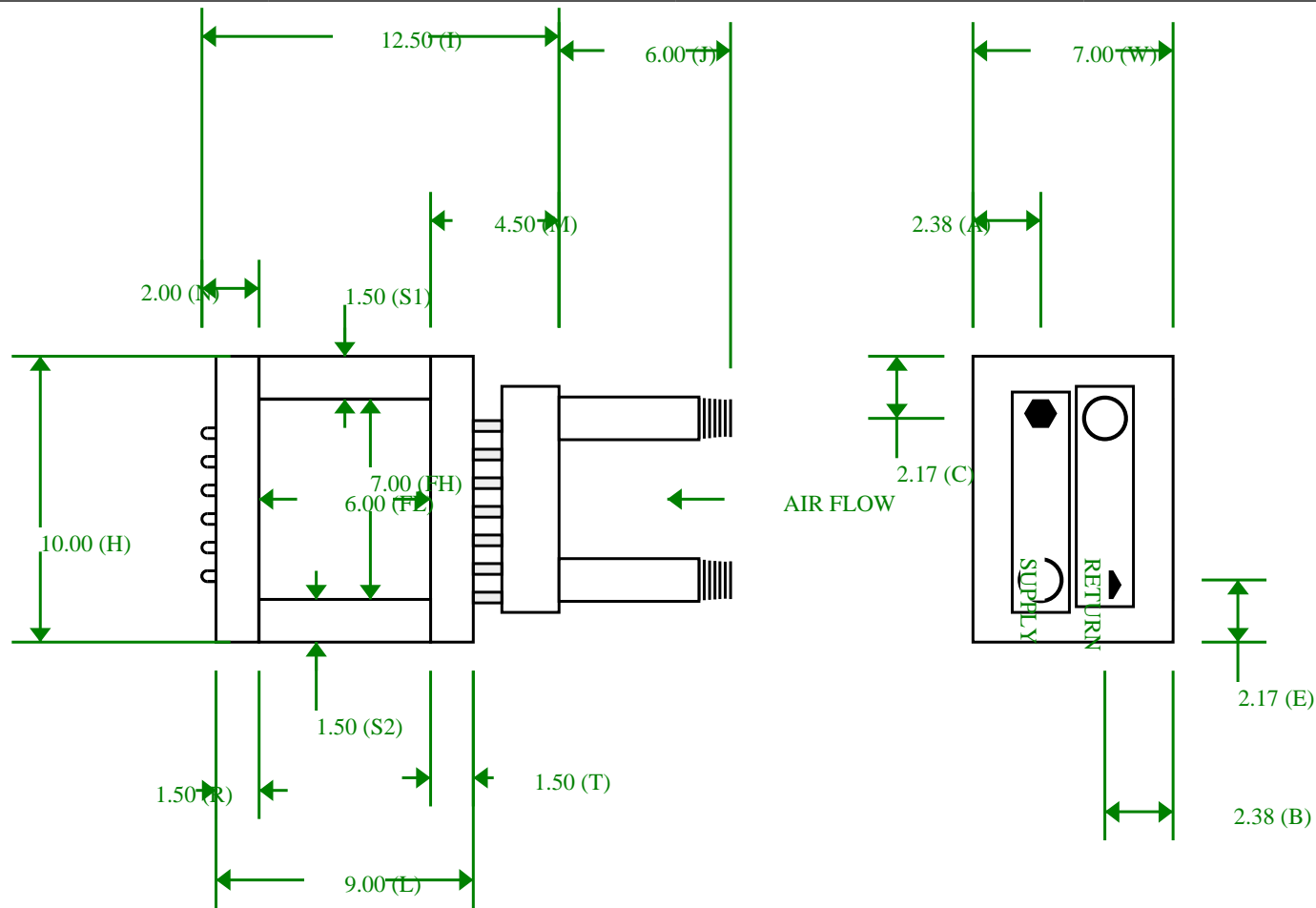
Casing type: Flanged
 Fluid: Water
 Vent/Drain: .50 FPT on Face

Materials of Construction

Tube [in]: 3/8 x 0.030 Copper
 Fin [in]: 6 FPI, 0.0095 Aluminum
 Rows: 2
 Casing material: Galvanized Steel
 Hand: Right
 Conn. material: Carbon Steel
 Conn. type: MPT
 Conn. qty: 1
 Conn. size [in]: 1.50 Same End
 Weight [lbs]: 20.02



Date: 07-07-2023
Item: RHC-4101C
Quantity: 1
Model: 3MQ0602C - 12 x 13
Project: (116102) Eli Lilly - Building 4 Concord
Saved run:



General Notes

1. All dimensions are in inches.
2. Manually verifying dimensions is highly recommended.
3. The supply line should be connected to the lower connection on the leaving air side for counterflow operation.
4. Coils will vent and drain through factory-installed vent and drain fittings when mounted level for horizontal flow.
5. Connection location other than standard could affect vent and drain locations. Consult factory.

Options

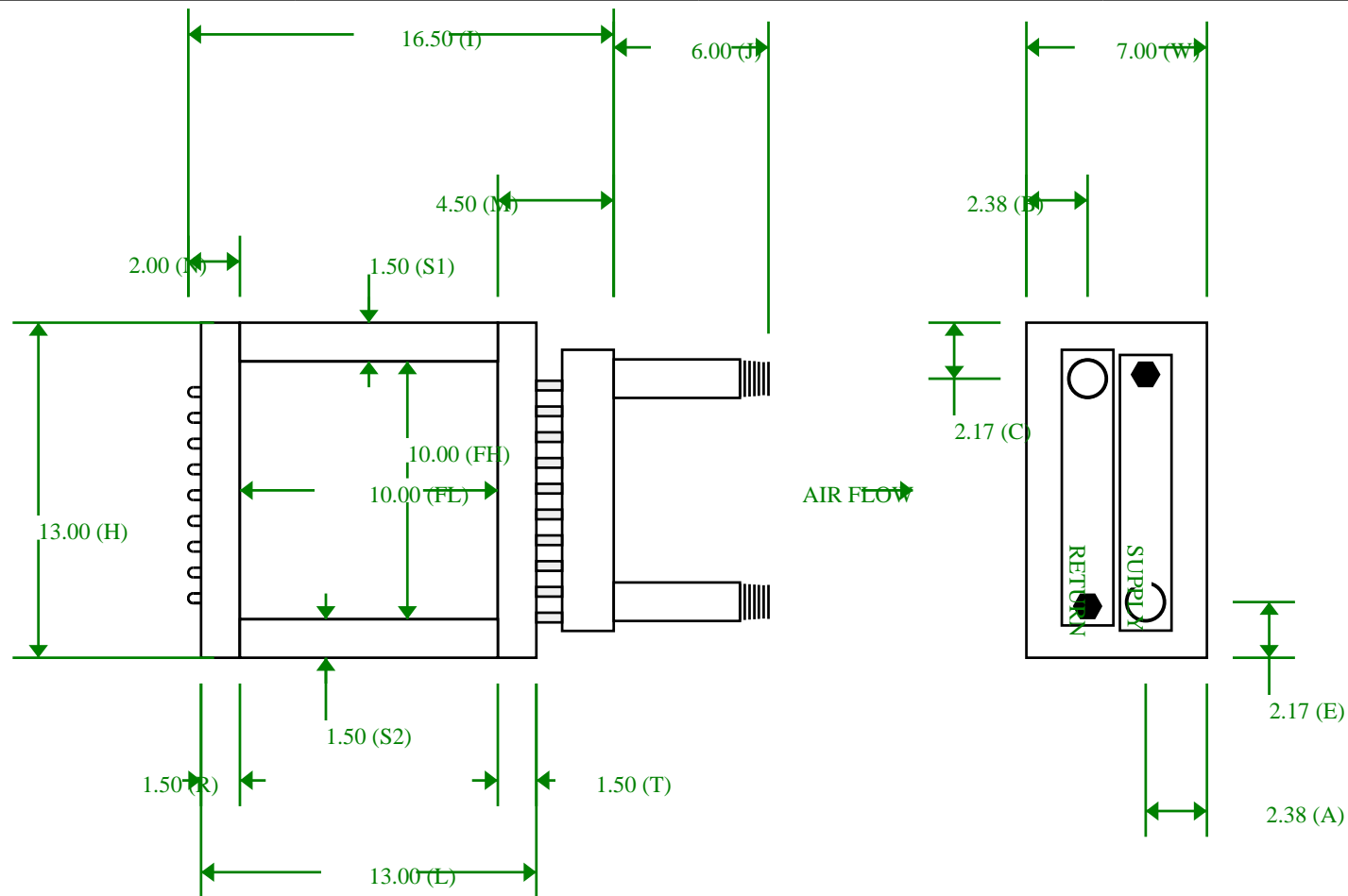
Casing type: Flanged
 Fluid: Water
 Vent/Drain: .50 FPT on Face

Materials of Construction

Tube [in]: 3/8 x 0.030 Copper
 Fin [in]: 9 FPI, 0.0095 Aluminum
 Rows: 2
 Casing material: Galvanized Steel
 Hand: Left
 Conn. material: Carbon Steel
 Conn. type: MPT
 Conn. qty: 1
 Conn. size [in]: 1.50 Same End
 Weight [lbs]: 9.976



Date: 07-07-2023
Item: RHC-4102, 4108, 4114, 4202, 4208
Quantity: 5
Model: 3MQ0902B - 7 x 6
Project: (116102) Eli Lilly - Building 4 Concord
Saved run:



General Notes

1. All dimensions are in inches.
2. Manually verifying dimensions is highly recommended.
3. The supply line should be connected to the lower connection on the leaving air side for counterflow operation.
4. Coils will vent and drain through factory-installed vent and drain fittings when mounted level for horizontal flow.
5. Connection location other than standard could affect vent and drain locations. Consult factory.

Options

Casing type: Flanged
 Fluid: Water
 Vent/Drain: .50 FPT on Face

Materials of Construction

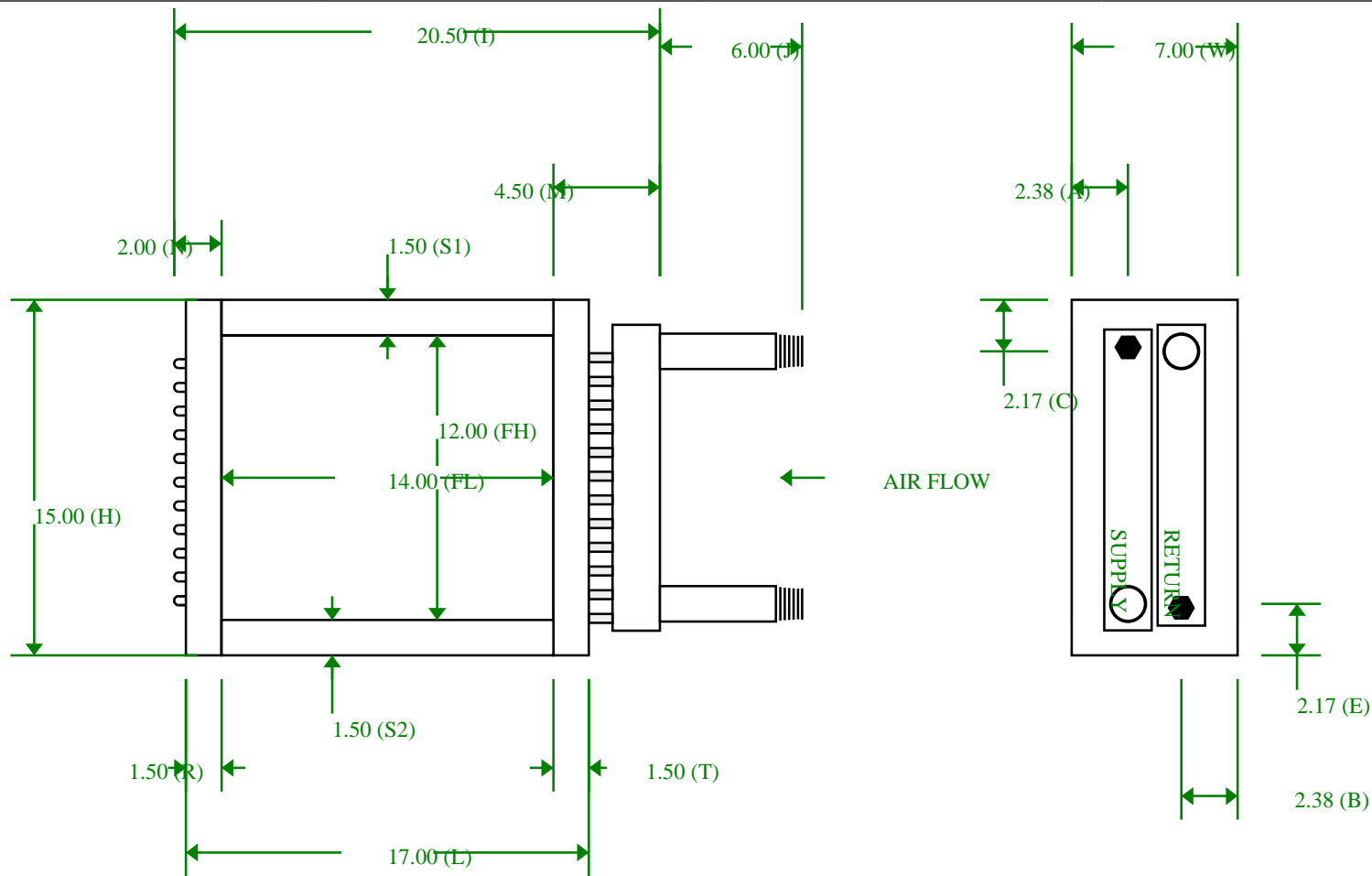
Tube [in]: 3/8 x 0.030 Copper
 Fin [in]: 6 FPI, 0.0095 Aluminum
 Rows: 2
 Casing material: Galvanized Steel
 Hand: Right
 Conn. material: Carbon Steel
 Conn. type: MPT
 Conn. qty: 1
 Conn. size [in]: 1.50 Same End
 Weight [lbs]: 15.54



Heatcraft® heat transfer coils



Date: 07-07-2023
Item: RHC-4103
Quantity: 1
Model: 3MI0602C - 10 x 10
Project: (116102) Eli Lilly - Building 4 Concord
Saved run:



General Notes

1. All dimensions are in inches.
2. Manually verifying dimensions is highly recommended.
3. The supply line should be connected to the lower connection on the leaving air side for counterflow operation.
4. Coils will vent and drain through factory-installed vent and drain fittings when mounted level for horizontal flow.
5. Connection location other than standard could affect vent and drain locations. Consult factory.

Options

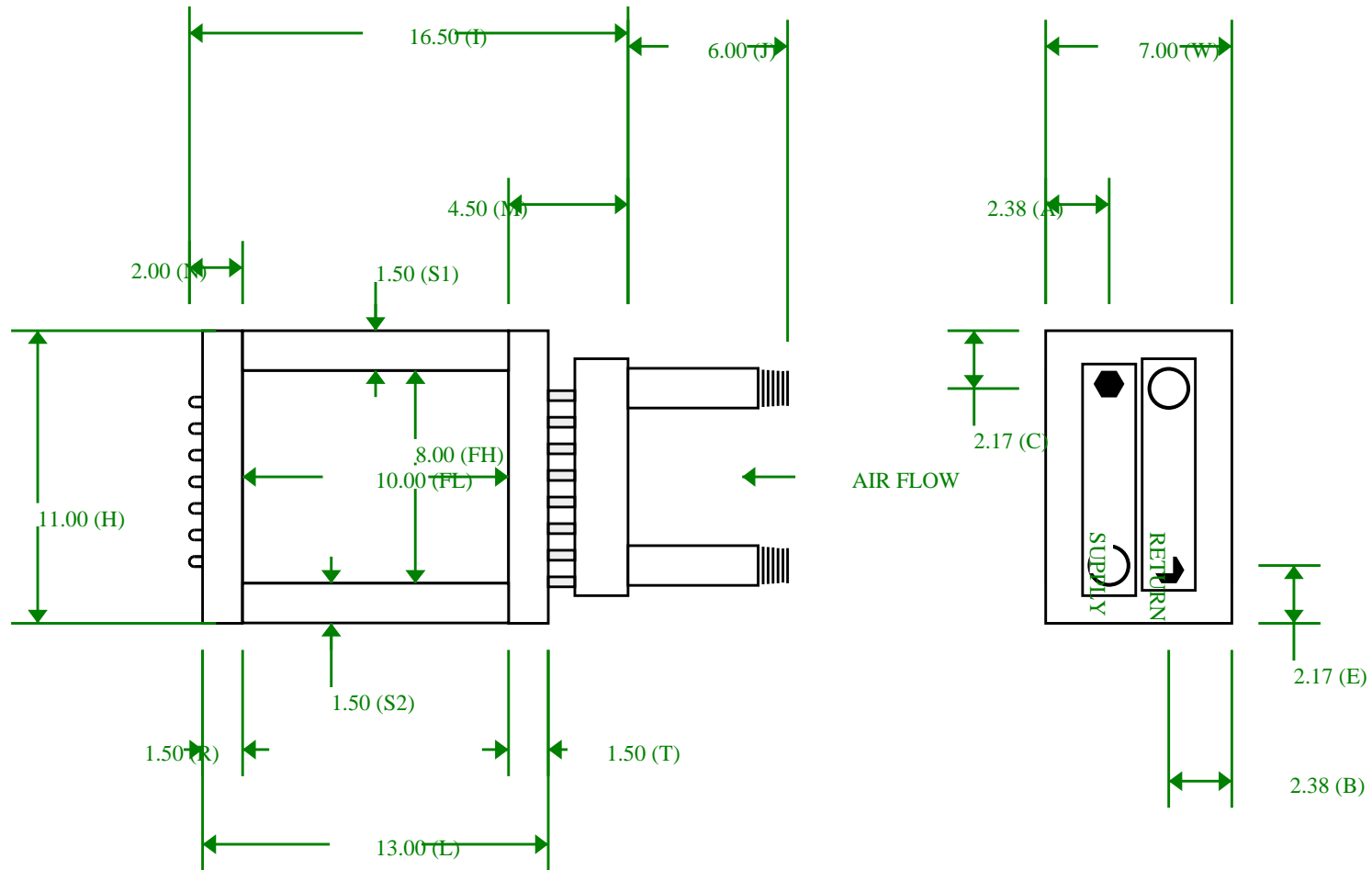
Casing type: Flanged
 Fluid: Water
 Vent/Drain: .50 FPT on Face

Materials of Construction

Tube [in]: 3/8 x 0.030 Copper
 Fin [in]: 8 FPI, 0.0095 Aluminum
 Rows: 2
 Casing material: Galvanized Steel
 Hand: Left
 Conn. material: Carbon Steel
 Conn. type: MPT
 Conn. qty: 1
 Conn. size [in]: 1.50 Same End
 Weight [lbs]: 21.41



Date: 07-07-2023
Item: RHC-4107, 4122A, 4207
Quantity: 3
Model: 3MQ0802B - 12 x 14
Project: (116102) Eli Lilly - Building 4 Concord
Saved run:



General Notes

1. All dimensions are in inches.
2. Manually verifying dimensions is highly recommended.
3. The supply line should be connected to the lower connection on the leaving air side for counterflow operation.
4. Coils will vent and drain through factory-installed vent and drain fittings when mounted level for horizontal flow.
5. Connection location other than standard could affect vent and drain locations. Consult factory.

Options

Casing type: Flanged
 Fluid: Water
 Vent/Drain: .50 FPT on Face

Materials of Construction

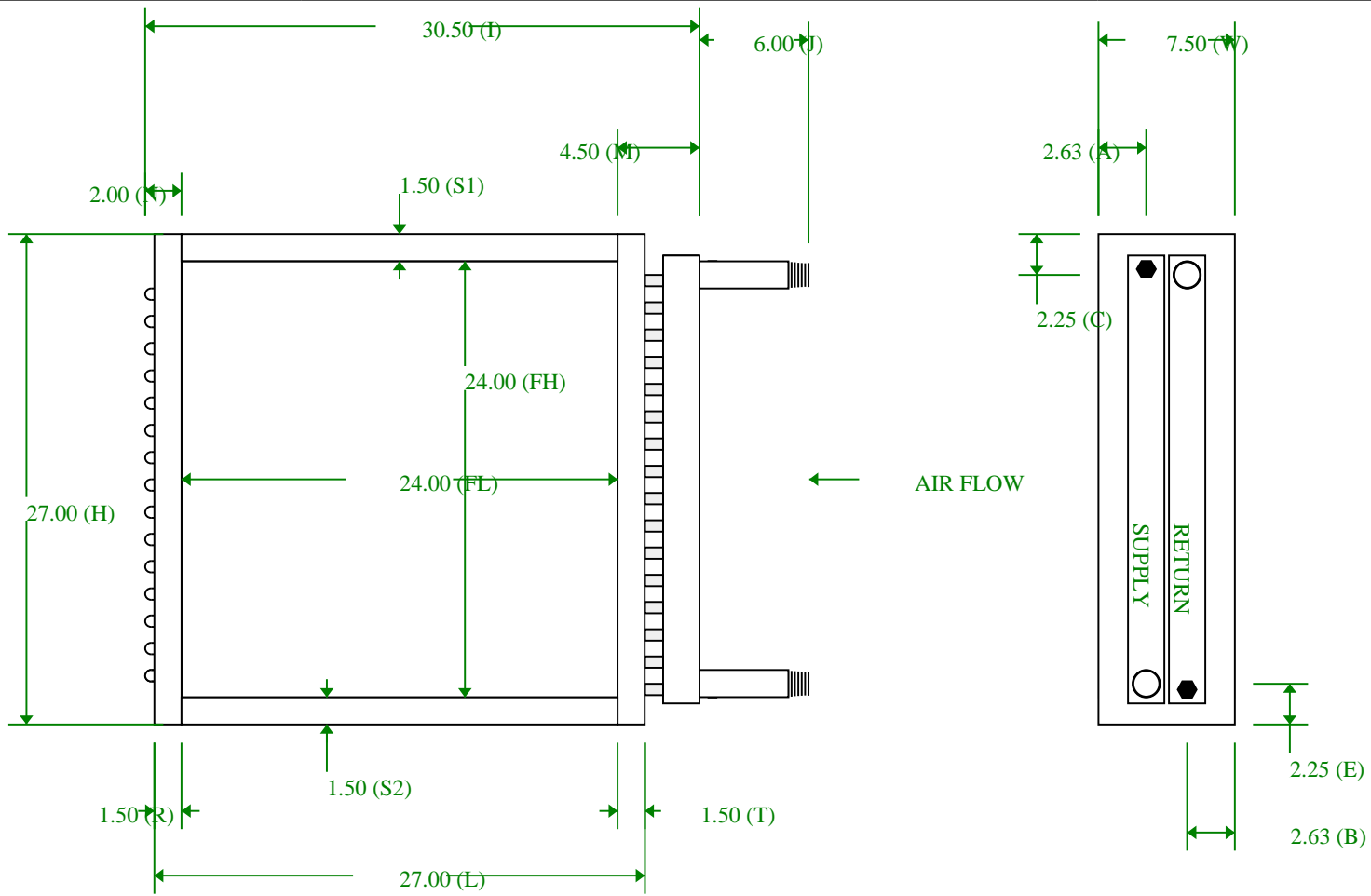
Tube [in]: 3/8 x 0.030 Copper
 Fin [in]: 6 FPI, 0.0095 Aluminum
 Rows: 2
 Casing material: Galvanized Steel
 Hand: Left
 Conn. material: Carbon Steel
 Conn. type: MPT
 Conn. qty: 1
 Conn. size [in]: 1.50 Same End
 Weight [lbs]: 13.21



Heatcraft® heat transfer coils



Date: 07-07-2023
Item: RHC-4110, 4210
Quantity: 2
Model: 3MQ0602C - 8 x 10
Project: (116102) Eli Lilly - Building 4 Concord
Saved run:



General Notes

1. All dimensions are in inches.
2. Manually verifying dimensions is highly recommended.
3. The supply line should be connected to the lower connection on the leaving air side for counterflow operation.
4. Coils will vent and drain through factory-installed vent and drain fittings when mounted level for horizontal flow.
5. Connection location other than standard could affect vent and drain locations. Consult factory.

Options

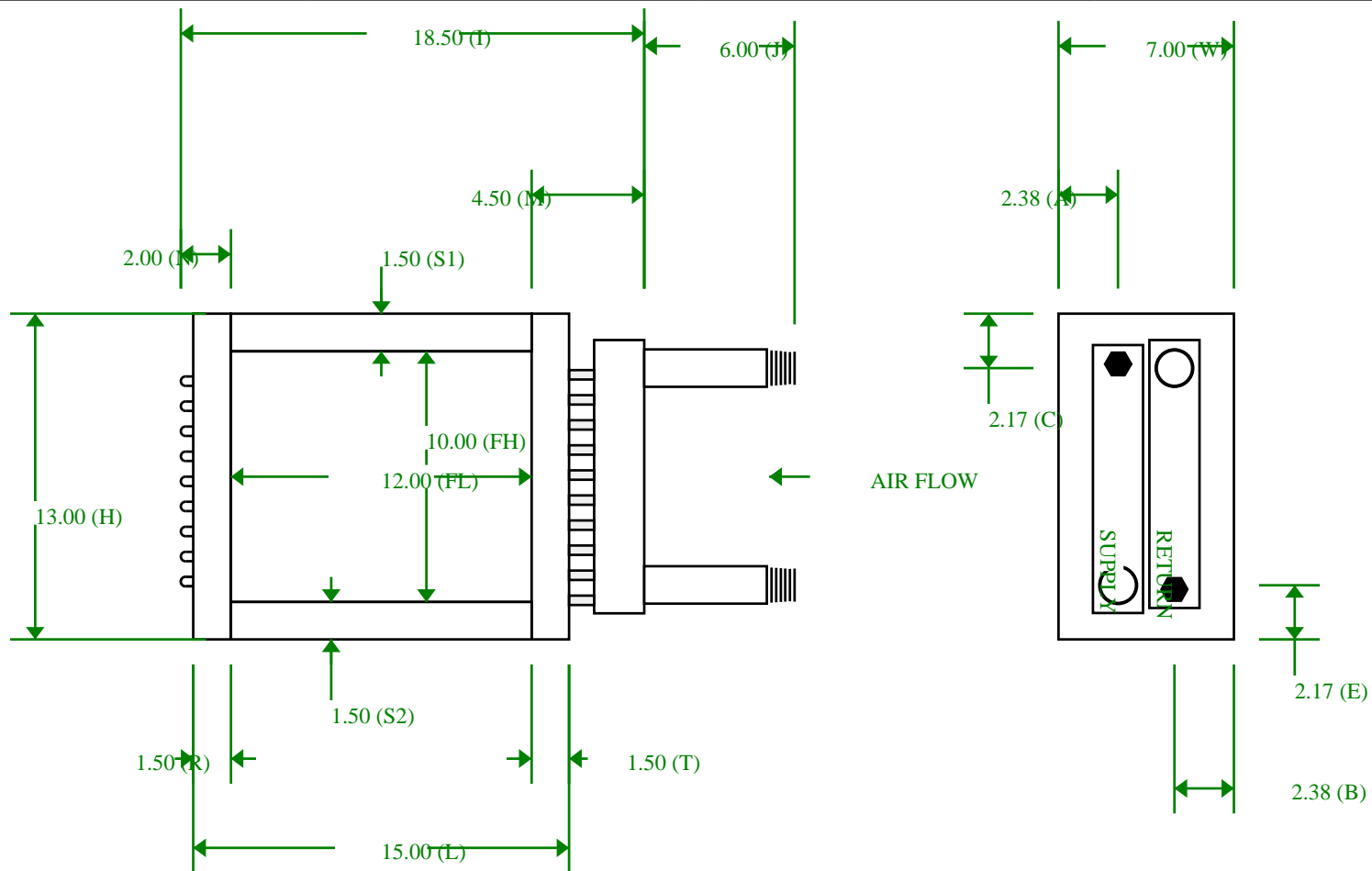
Casing type: Flanged
 Fluid: Water
 Vent/Drain: .50 FPT on Face

Materials of Construction

Tube [in]: 5/8 x 0.035 Copper
 Fin [in]: 7 FPI, 0.0095 Aluminum
 Rows: 2
 Casing material: Galvanized Steel
 Hand: Left
 Conn. material: Carbon Steel
 Conn. type: MPT
 Conn. qty: 1
 Conn. size [in]: 1.50 Same End
 Weight [lbs]: 56.32



Date: 07-07-2023
Item: RHC-4112
Quantity: 1
Model: 5MI0702B - 24 x 24
Project: (116102) Eli Lilly - Building 4 Concord
Saved run:



General Notes

1. All dimensions are in inches.
2. Manually verifying dimensions is highly recommended.
3. The supply line should be connected to the lower connection on the leaving air side for counterflow operation.
4. Coils will vent and drain through factory-installed vent and drain fittings when mounted level for horizontal flow.
5. Connection location other than standard could affect vent and drain locations. Consult factory.

Options

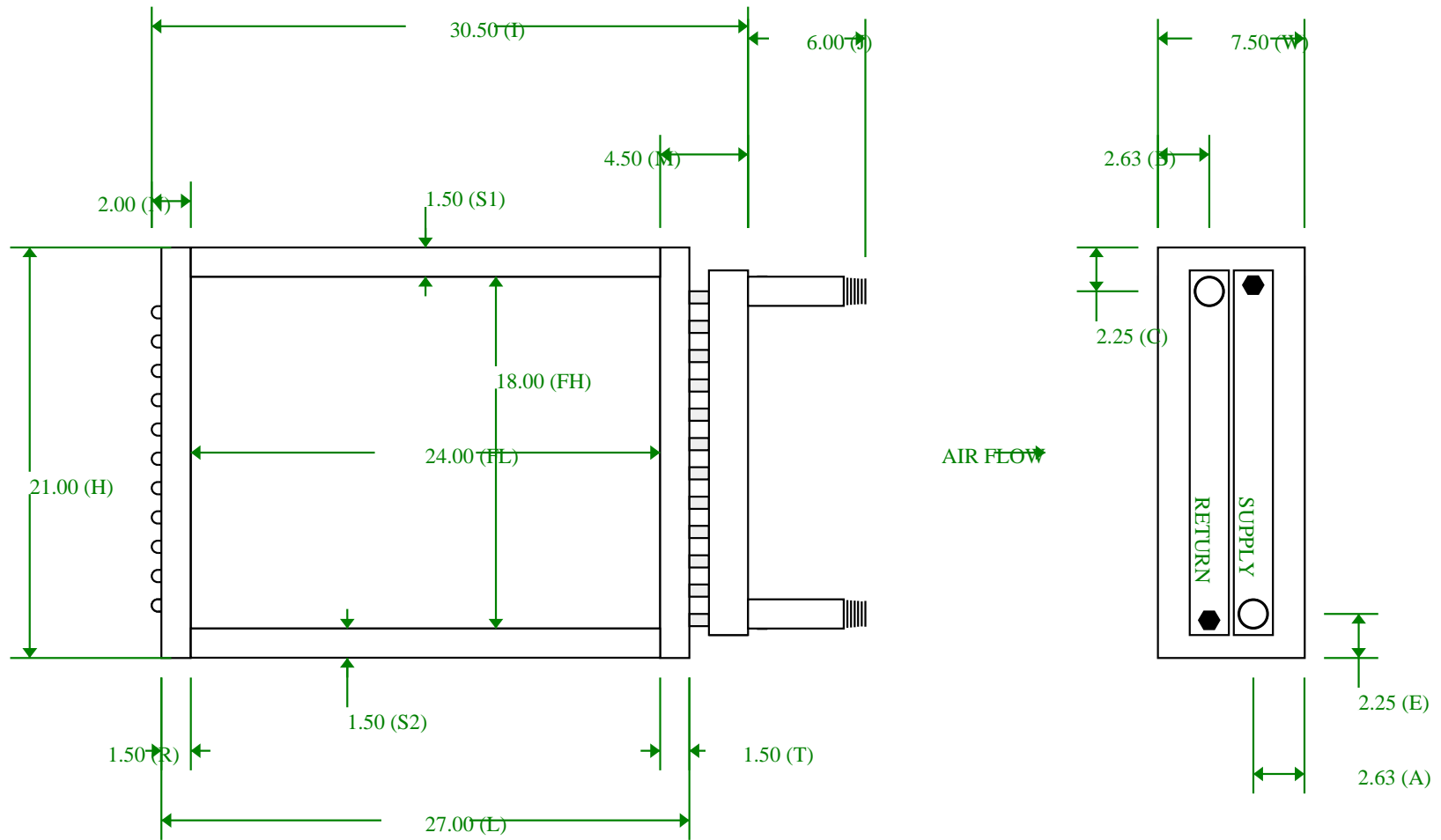
Casing type: Flanged
 Fluid: Water
 Vent/Drain: .50 FPT on Face

Materials of Construction

Tube [in]: 3/8 x 0.030 Copper
 Fin [in]: 7 FPI, 0.0095 Aluminum
 Rows: 2
 Casing material: Galvanized Steel
 Hand: Left
 Conn. material: Carbon Steel
 Conn. type: MPT
 Conn. qty: 1
 Conn. size [in]: 1.50 Same End
 Weight [lbs]: 17.11



Date: 07-07-2023
Item: RHC-4113A
Quantity: 1
Model: 3MI0702B - 10 x 12
Project: (116102) Eli Lilly - Building 4 Concord
Saved run:



General Notes

1. All dimensions are in inches.
2. Manually verifying dimensions is highly recommended.
3. The supply line should be connected to the lower connection on the leaving air side for counterflow operation.
4. Coils will vent and drain through factory-installed vent and drain fittings when mounted level for horizontal flow.
5. Connection location other than standard could affect vent and drain locations. Consult factory.

Options

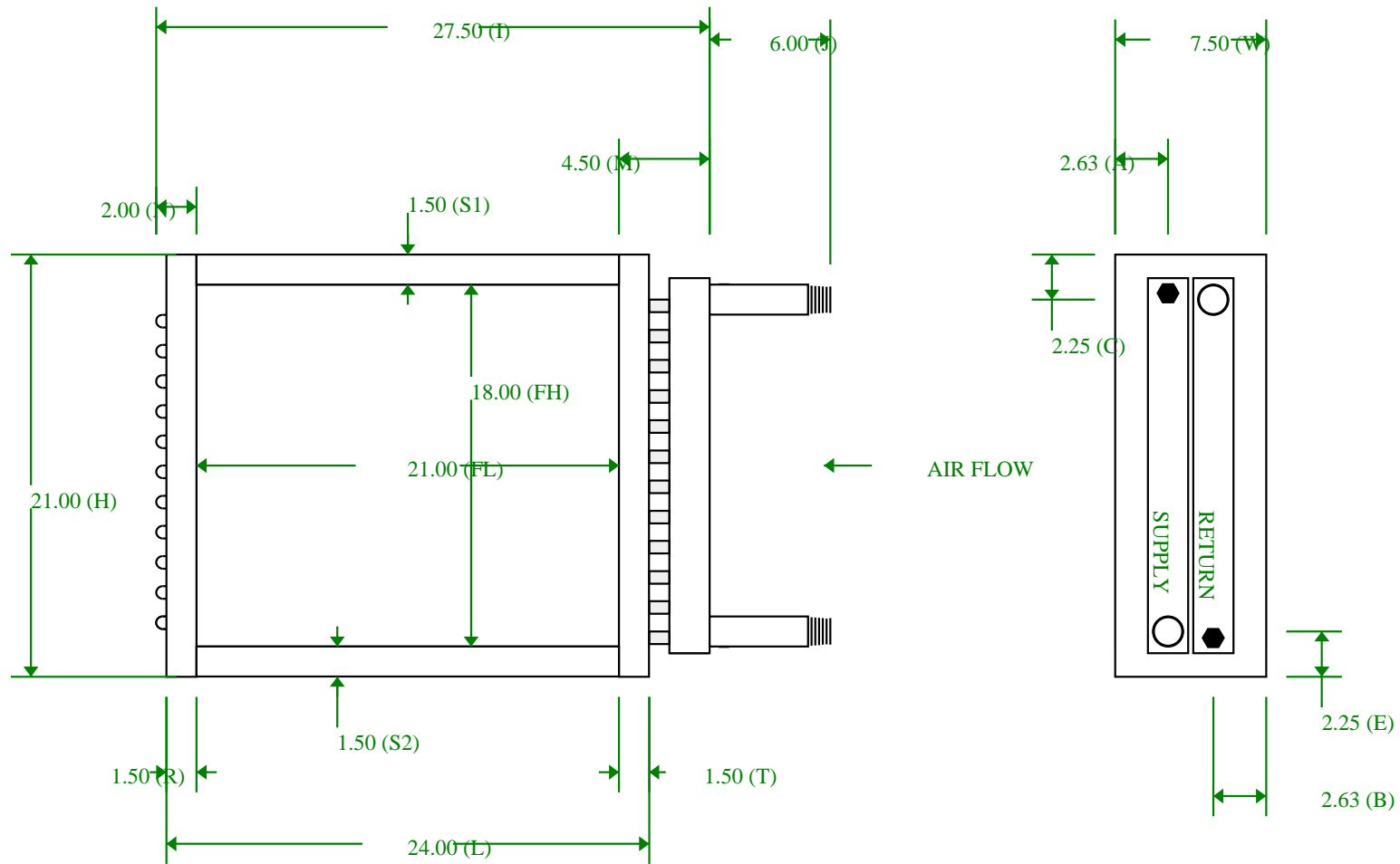
Casing type: Flanged
 Fluid: Water
 Vent/Drain: .50 FPT on Face

Materials of Construction

Tube [in]: 5/8 x 0.035 Copper
 Fin [in]: 8 FPI, 0.0095 Aluminum
 Rows: 2
 Casing material: Galvanized Steel
 Hand: Right
 Conn. material: Carbon Steel
 Conn. type: MPT
 Conn. qty: 1
 Conn. size [in]: 1.50 Same End
 Weight [lbs]: 45.45



Date: 07-07-2023
Item: RHC-4113B, 4122B
Quantity: 2
Model: 5MI0802A - 18 x 24
Project: (116102) Eli Lilly - Building 4 Concord
Saved run:



General Notes

1. All dimensions are in inches.
2. Manually verifying dimensions is highly recommended.
3. The supply line should be connected to the lower connection on the leaving air side for counterflow operation.
4. Coils will vent and drain through factory-installed vent and drain fittings when mounted level for horizontal flow.
5. Connection location other than standard could affect vent and drain locations. Consult factory.

Options

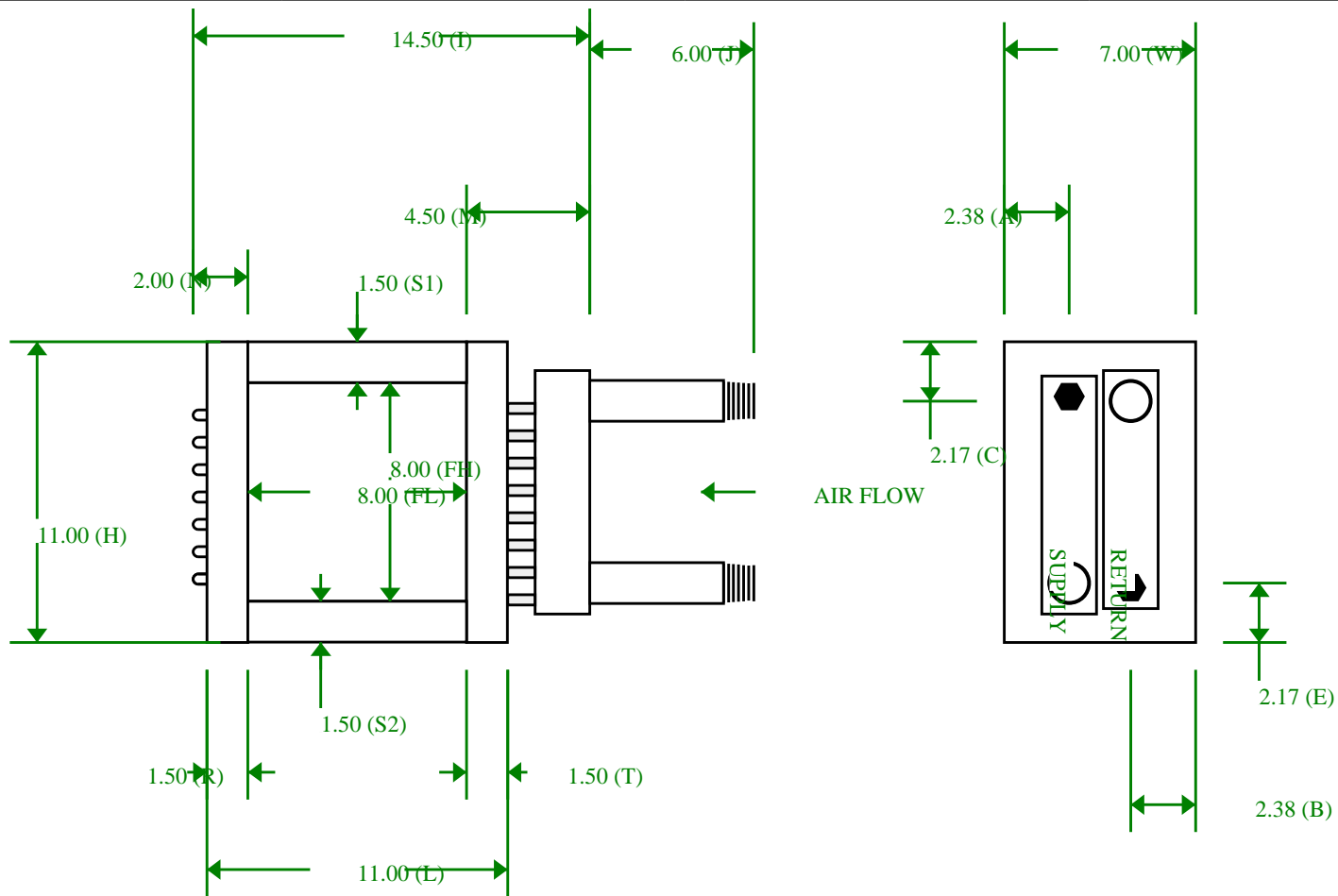
Casing type: Flanged
 Fluid: Water
 Vent/Drain: .50 FPT on Face

Materials of Construction

Tube [in]: 5/8 x 0.035 Copper
 Fin [in]: 8 FPI, 0.0095 Aluminum
 Rows: 2
 Casing material: Galvanized Steel
 Hand: Left
 Conn. material: Carbon Steel
 Conn. type: MPT
 Conn. qty: 1
 Conn. size [in]: 1.50 Same End
 Weight [lbs]: 41.77



Date: 07-07-2023
Item: RHC-4113C
Quantity: 1
Model: 5MI0802A - 18 x 21
Project: (116102) Eli Lilly - Building 4 Concord
Saved run:



General Notes

1. All dimensions are in inches.
2. Manually verifying dimensions is highly recommended.
3. The supply line should be connected to the lower connection on the leaving air side for counterflow operation.
4. Coils will vent and drain through factory-installed vent and drain fittings when mounted level for horizontal flow.
5. Connection location other than standard could affect vent and drain locations. Consult factory.

Options

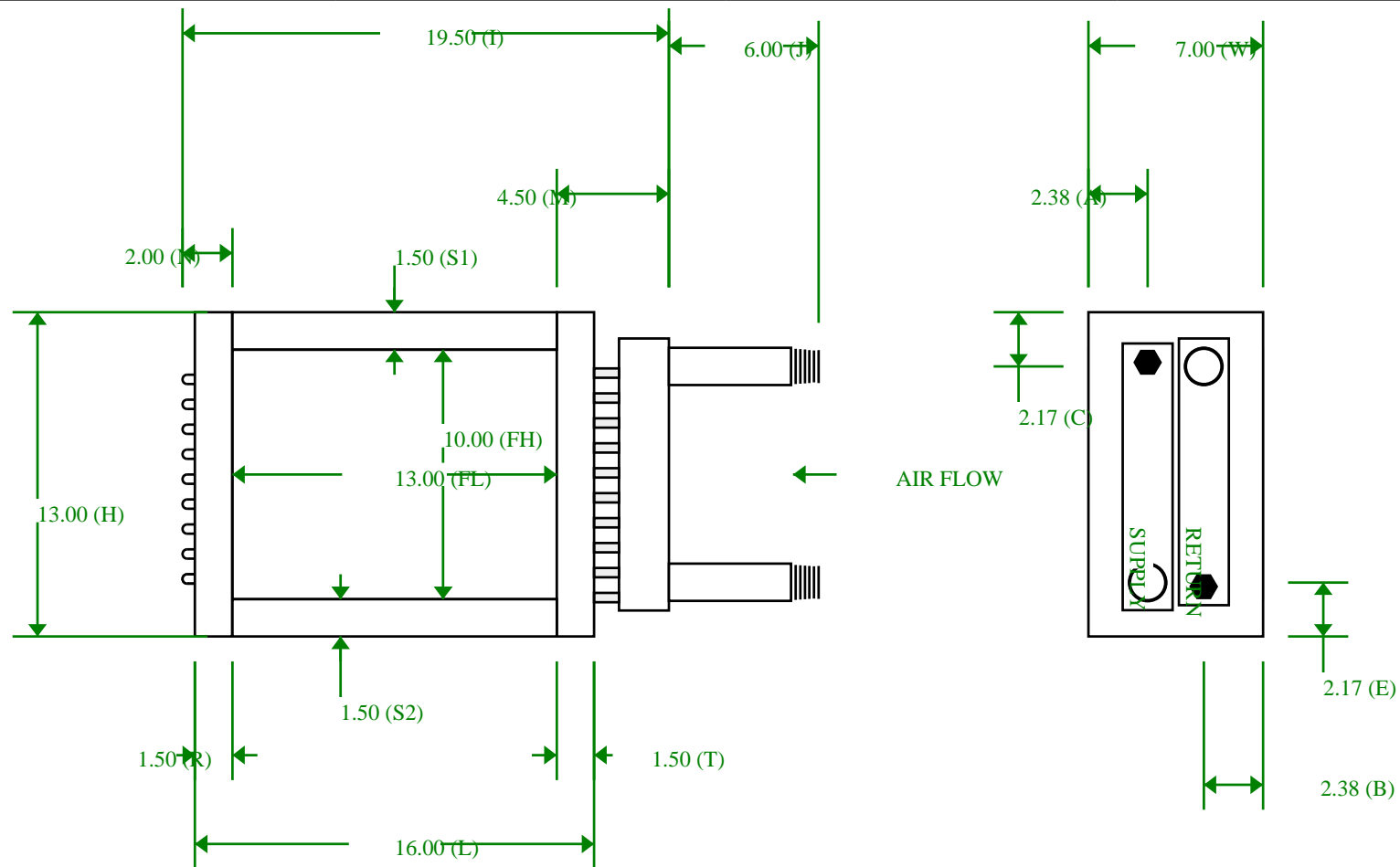
Casing type: Flanged
 Fluid: Water
 Vent/Drain: .50 FPT on Face

Materials of Construction

Tube [in]: 3/8 x 0.030 Copper
 Fin [in]: 6 FPI, 0.0095 Aluminum
 Rows: 2
 Casing material: Galvanized Steel
 Hand: Left
 Conn. material: Carbon Steel
 Conn. type: MPT
 Conn. qty: 1
 Conn. size [in]: 1.50 Same End
 Weight [lbs]: 12.00



Date: 07-07-2023
Item: RHC-4115
Quantity: 1
Model: 3MQ0602C - 8 x 8
Project: (116102) Eli Lilly - Building 4 Concord
Saved run:



General Notes

1. All dimensions are in inches.
2. Manually verifying dimensions is highly recommended.
3. The supply line should be connected to the lower connection on the leaving air side for counterflow operation.
4. Coils will vent and drain through factory-installed vent and drain fittings when mounted level for horizontal flow.
5. Connection location other than standard could affect vent and drain locations. Consult factory.

Options

Casing type: Flanged
 Fluid: Water
 Vent/Drain: .50 FPT on Face

Materials of Construction

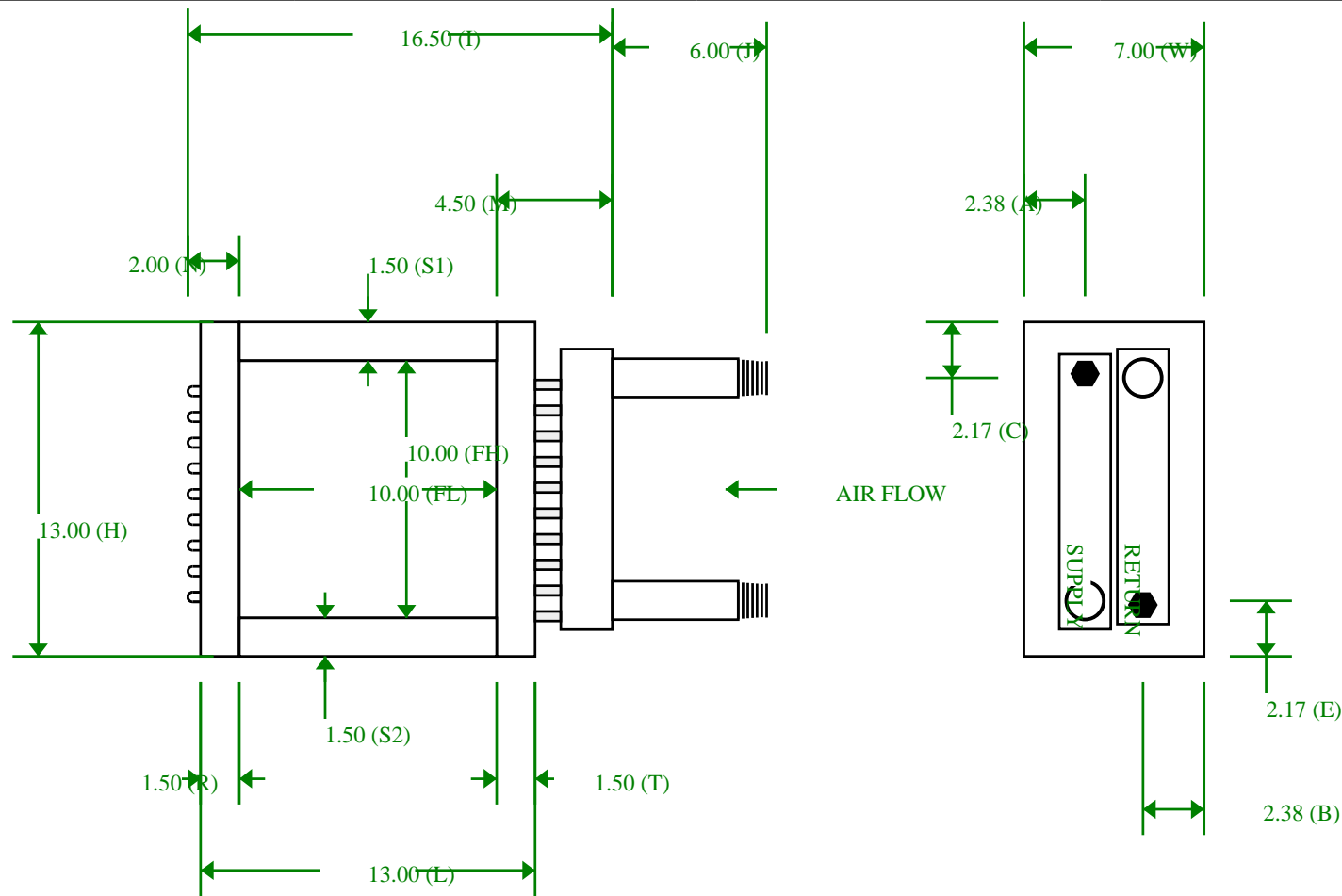
Tube [in]: 3/8 x 0.030 Copper
 Fin [in]: 7 FPI, 0.0095 Aluminum
 Rows: 2
 Casing material: Galvanized Steel
 Hand: Left
 Conn. material: Carbon Steel
 Conn. type: MPT
 Conn. qty: 1
 Conn. size [in]: 1.50 Same End
 Weight [lbs]: 17.79



Heatcraft® heat transfer coils



Date: 07-07-2023
Item: RHC-4117
Quantity: 1
Model: 3MI0702B - 10 x 13
Project: (116102) Eli Lilly - Building 4 Concord
Saved run:



General Notes

1. All dimensions are in inches.
2. Manually verifying dimensions is highly recommended.
3. The supply line should be connected to the lower connection on the leaving air side for counterflow operation.
4. Coils will vent and drain through factory-installed vent and drain fittings when mounted level for horizontal flow.
5. Connection location other than standard could affect vent and drain locations. Consult factory.

Options

Casing type: Flanged
 Fluid: Water
 Vent/Drain: .50 FPT on Face

Materials of Construction

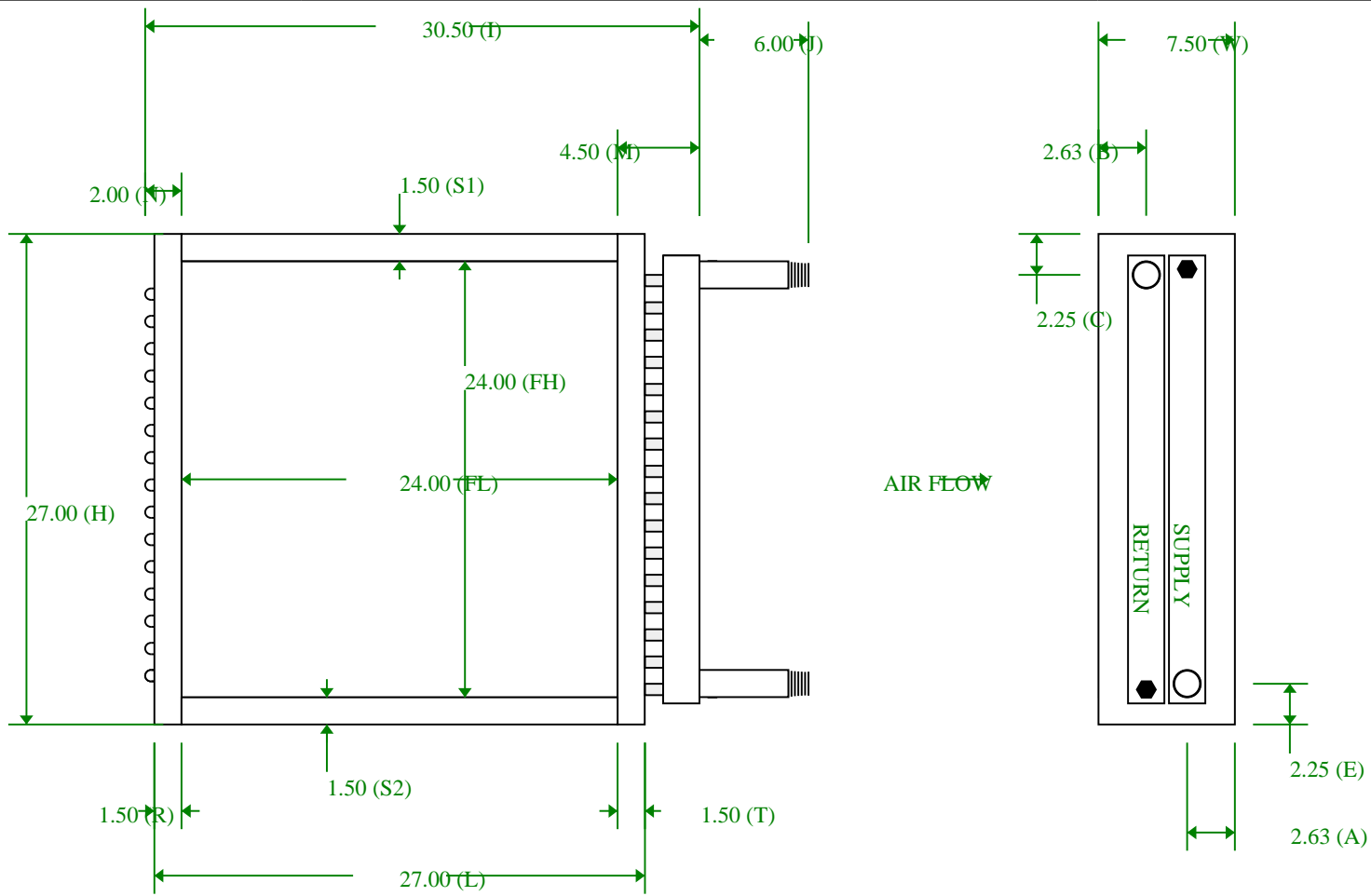
Tube [in]: 3/8 x 0.030 Copper
 Fin [in]: 6 FPI, 0.0095 Aluminum
 Rows: 2
 Casing material: Galvanized Steel
 Hand: Left
 Conn. material: Carbon Steel
 Conn. type: MPT
 Conn. qty: 1
 Conn. size [in]: 1.50 Same End
 Weight [lbs]: 15.54



Heatcraft® heat transfer coils



Date: 07-07-2023
Item: RHC-4118, 4203
Quantity: 2
Model: 3MI0602C - 10 x 10
Project: (116102) Eli Lilly - Building 4 Concord
Saved run:



General Notes

1. All dimensions are in inches.
2. Manually verifying dimensions is highly recommended.
3. The supply line should be connected to the lower connection on the leaving air side for counterflow operation.
4. Coils will vent and drain through factory-installed vent and drain fittings when mounted level for horizontal flow.
5. Connection location other than standard could affect vent and drain locations. Consult factory.

Options

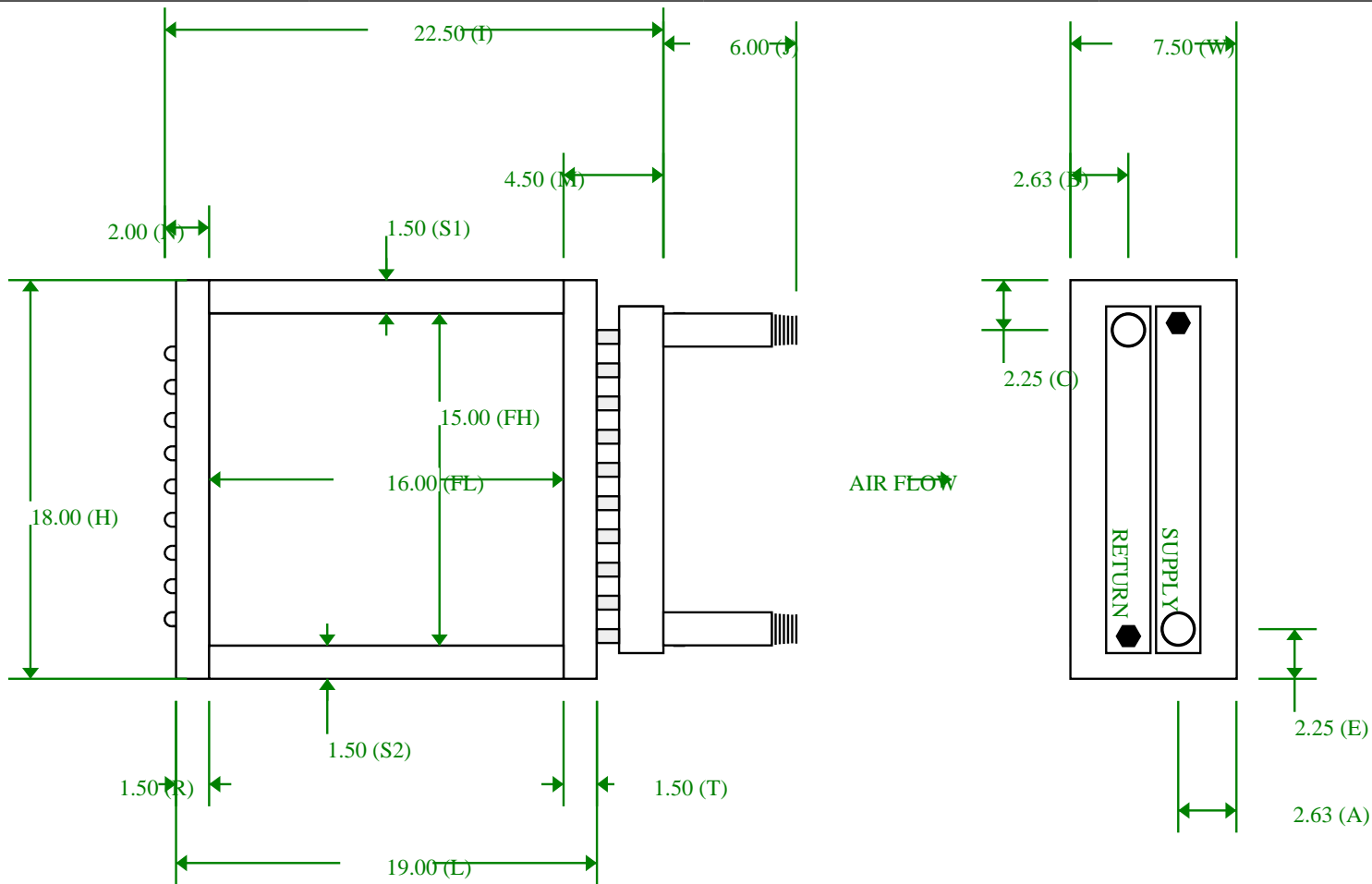
Casing type: Flanged
 Fluid: Water
 Vent/Drain: .50 FPT on Face

Materials of Construction

Tube [in]: 5/8 x 0.035 Copper
 Fin [in]: 7 FPI, 0.0095 Aluminum
 Rows: 2
 Casing material: Galvanized Steel
 Hand: Right
 Conn. material: Carbon Steel
 Conn. type: MPT
 Conn. qty: 1
 Conn. size [in]: 1.50 Same End
 Weight [lbs]: 56.32



Date: 07-07-2023
Item: RHC-4120B
Quantity: 1
Model: 5MI0702B - 24 x 24
Project: (116102) Eli Lilly - Building 4 Concord
Saved run:



General Notes

1. All dimensions are in inches.
2. Manually verifying dimensions is highly recommended.
3. The supply line should be connected to the lower connection on the leaving air side for counterflow operation.
4. Coils will vent and drain through factory-installed vent and drain fittings when mounted level for horizontal flow.
5. Connection location other than standard could affect vent and drain locations. Consult factory.

Options

Casing type: Flanged
 Fluid: Water
 Vent/Drain: .50 FPT on Face

Materials of Construction

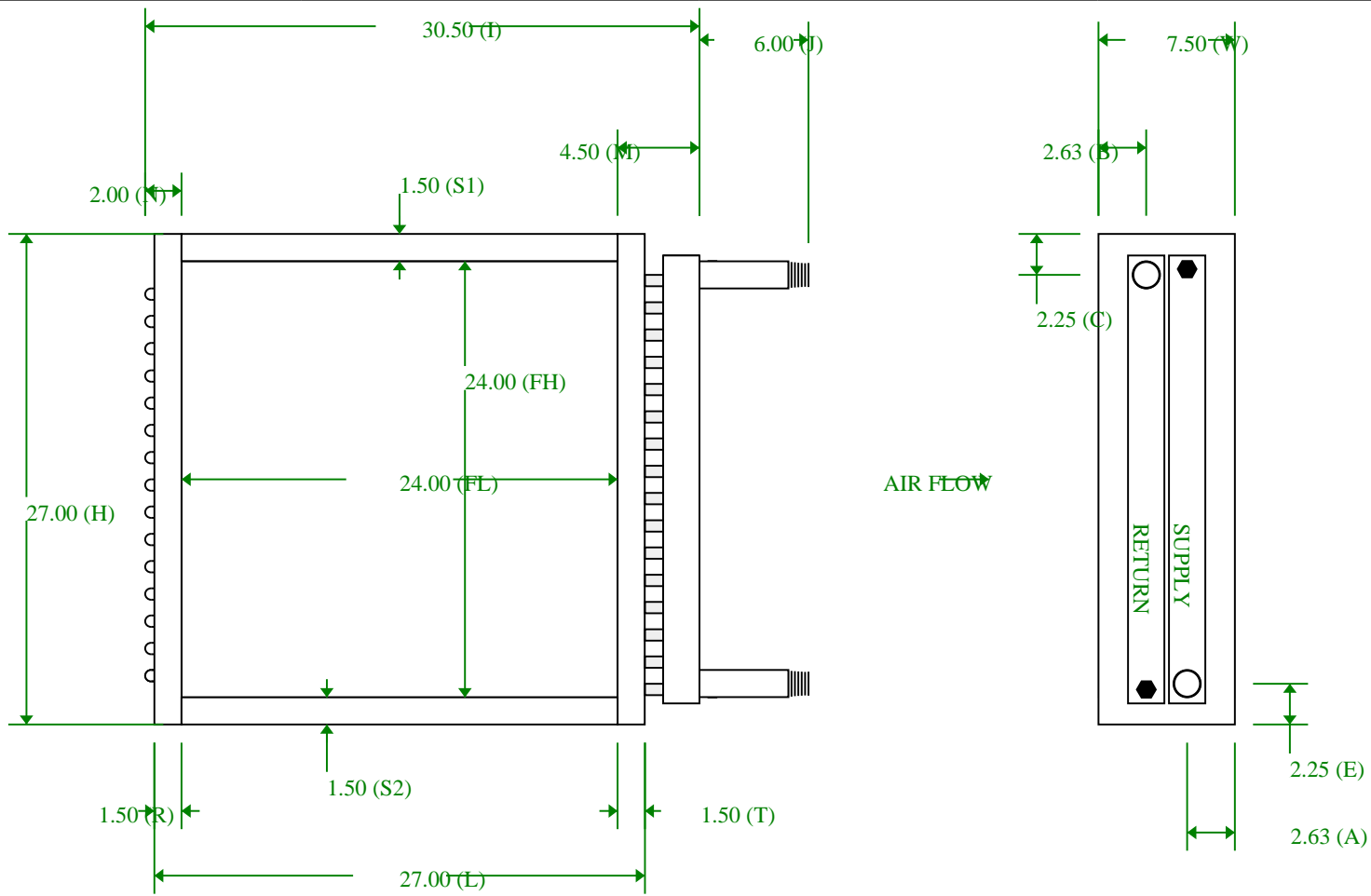
Tube [in]: 5/8 x 0.035 Copper
 Fin [in]: 9 FPI, 0.0095 Aluminum
 Rows: 2
 Casing material: Galvanized Steel
 Hand: Right
 Conn. material: Carbon Steel
 Conn. type: MPT
 Conn. qty: 1
 Conn. size [in]: 1.50 Same End
 Weight [lbs]: 31.22



Heatcraft® heat transfer coils



Date: 07-07-2023
Item: RHC-4121, 4213B
Quantity: 2
Model: 5MI0902A - 15 x 16
Project: (116102) Eli Lilly - Building 4 Concord
Saved run:



General Notes

1. All dimensions are in inches.
2. Manually verifying dimensions is highly recommended.
3. The supply line should be connected to the lower connection on the leaving air side for counterflow operation.
4. Coils will vent and drain through factory-installed vent and drain fittings when mounted level for horizontal flow.
5. Connection location other than standard could affect vent and drain locations. Consult factory.

Options

Casing type: Flanged
 Fluid: Water
 Vent/Drain: .50 FPT on Face

Materials of Construction

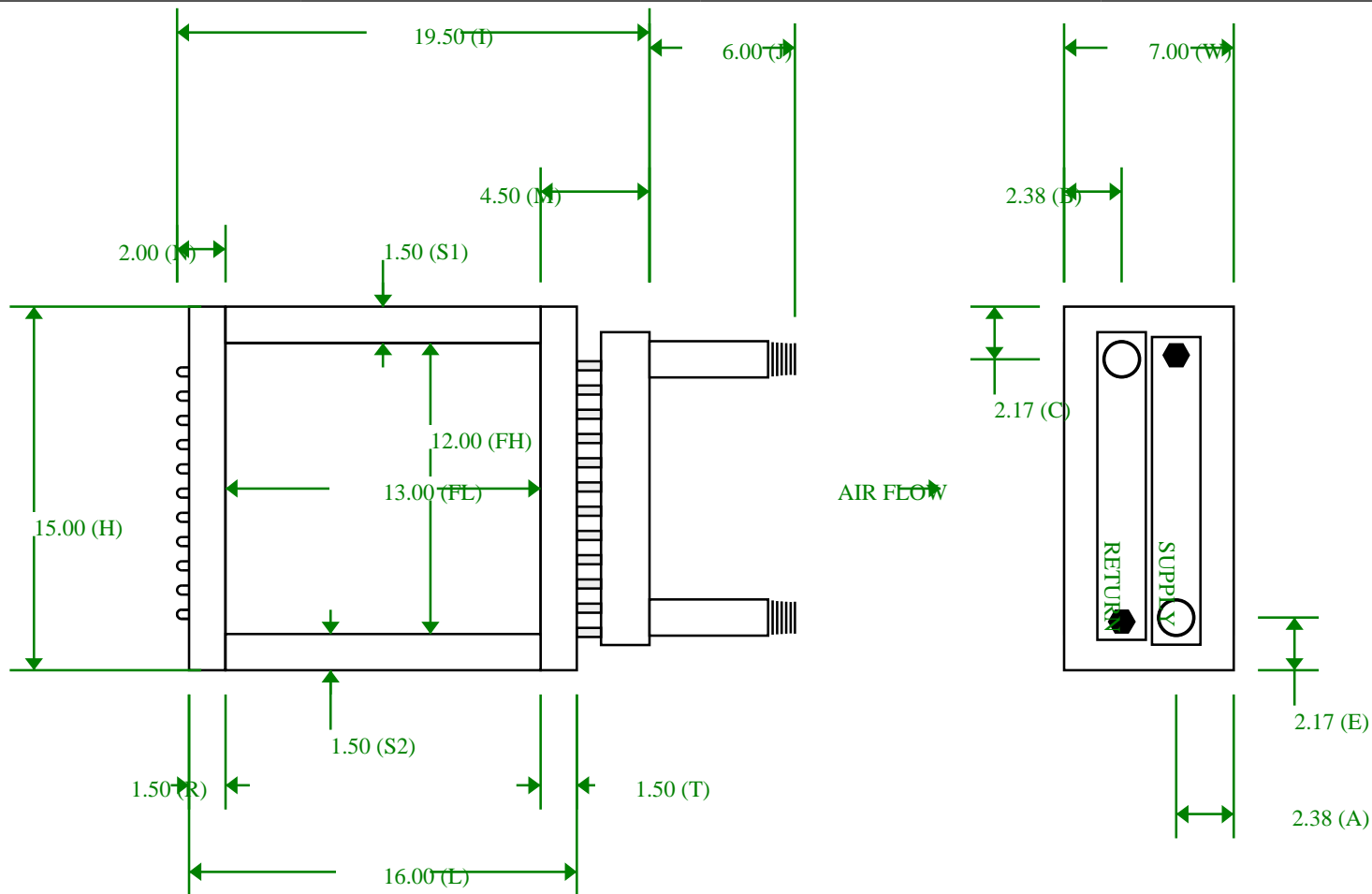
Tube [in]: 5/8 x 0.035 Copper
 Fin [in]: 7 FPI, 0.0095 Aluminum
 Rows: 2
 Casing material: Galvanized Steel
 Hand: Right
 Conn. material: Carbon Steel
 Conn. type: MPT
 Conn. qty: 1
 Conn. size [in]: 1.50 Same End
 Weight [lbs]: 56.32



Heatcraft® heat transfer coils



Date: 07-07-2023
Item: RHC-4123B
Quantity: 1
Model: 5MI0702B - 24 x 24
Project: (116102) Eli Lilly - Building 4 Concord
Saved run:



General Notes

1. All dimensions are in inches.
2. Manually verifying dimensions is highly recommended.
3. The supply line should be connected to the lower connection on the leaving air side for counterflow operation.
4. Coils will vent and drain through factory-installed vent and drain fittings when mounted level for horizontal flow.
5. Connection location other than standard could affect vent and drain locations. Consult factory.

Options

Casing type: Flanged
 Fluid: Water
 Vent/Drain: .50 FPT on Face

Materials of Construction

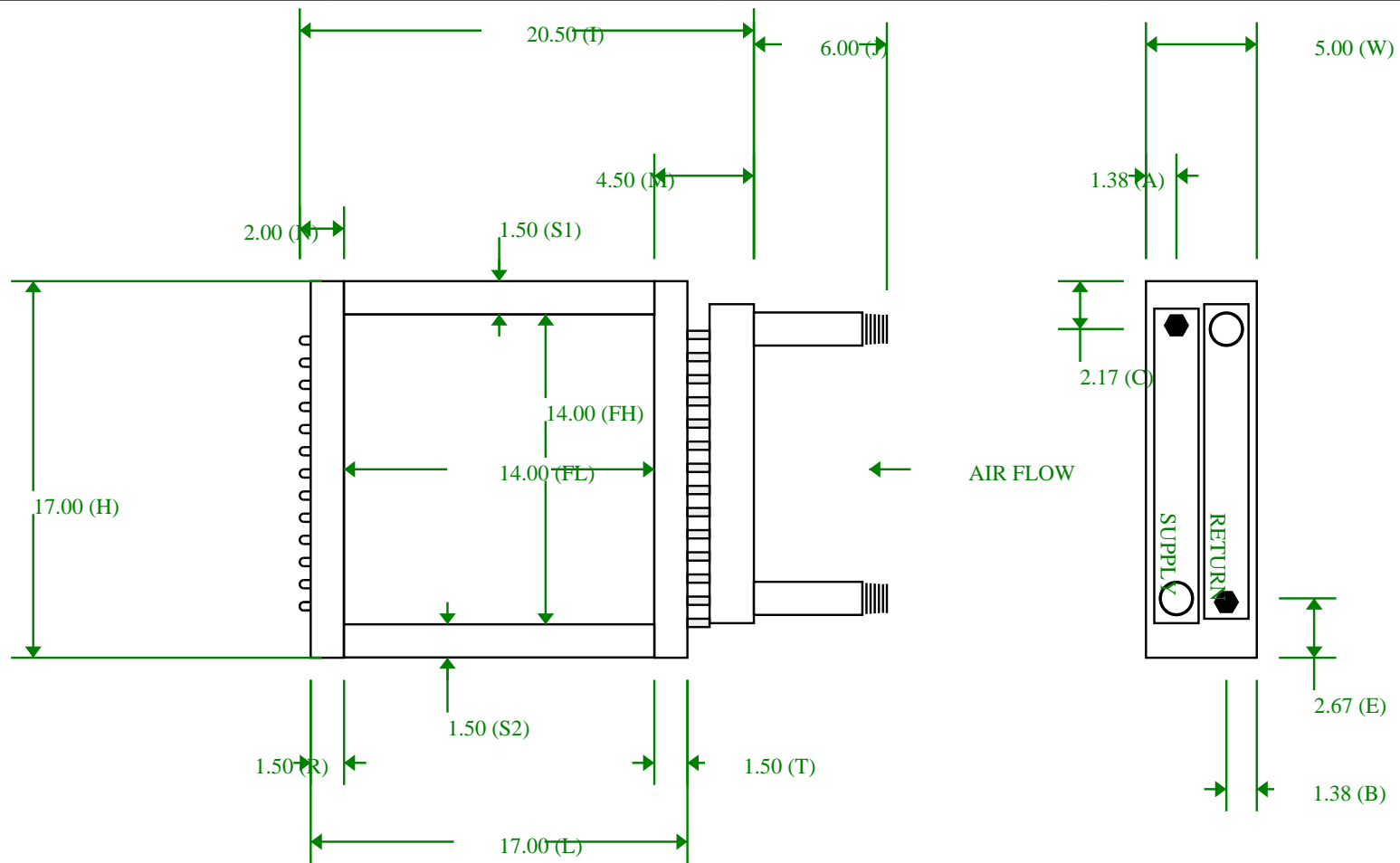
Tube [in]: 3/8 x 0.030 Copper
 Fin [in]: 7 FPI, 0.0095 Aluminum
 Rows: 2
 Casing material: Galvanized Steel
 Hand: Right
 Conn. material: Carbon Steel
 Conn. type: MPT
 Conn. qty: 1
 Conn. size [in]: 1.50 Same End
 Weight [lbs]: 20.33



Heatcraft® heat transfer coils



Date: 07-07-2023
Item: RHC-4124
Quantity: 1
Model: 3MI0702B - 12 x 13
Project: (116102) Eli Lilly - Building 4 Concord
Saved run:



General Notes

1. All dimensions are in inches.
2. Manually verifying dimensions is highly recommended.
3. The supply line should be connected to the lower connection on the leaving air side for counterflow operation.
4. Coils will vent and drain through factory-installed vent and drain fittings when mounted level for horizontal flow.
5. Connection location other than standard could affect vent and drain locations. Consult factory.

Options

Casing type: Flanged
 Fluid: Water
 Vent/Drain: .50 FPT on Face

Materials of Construction

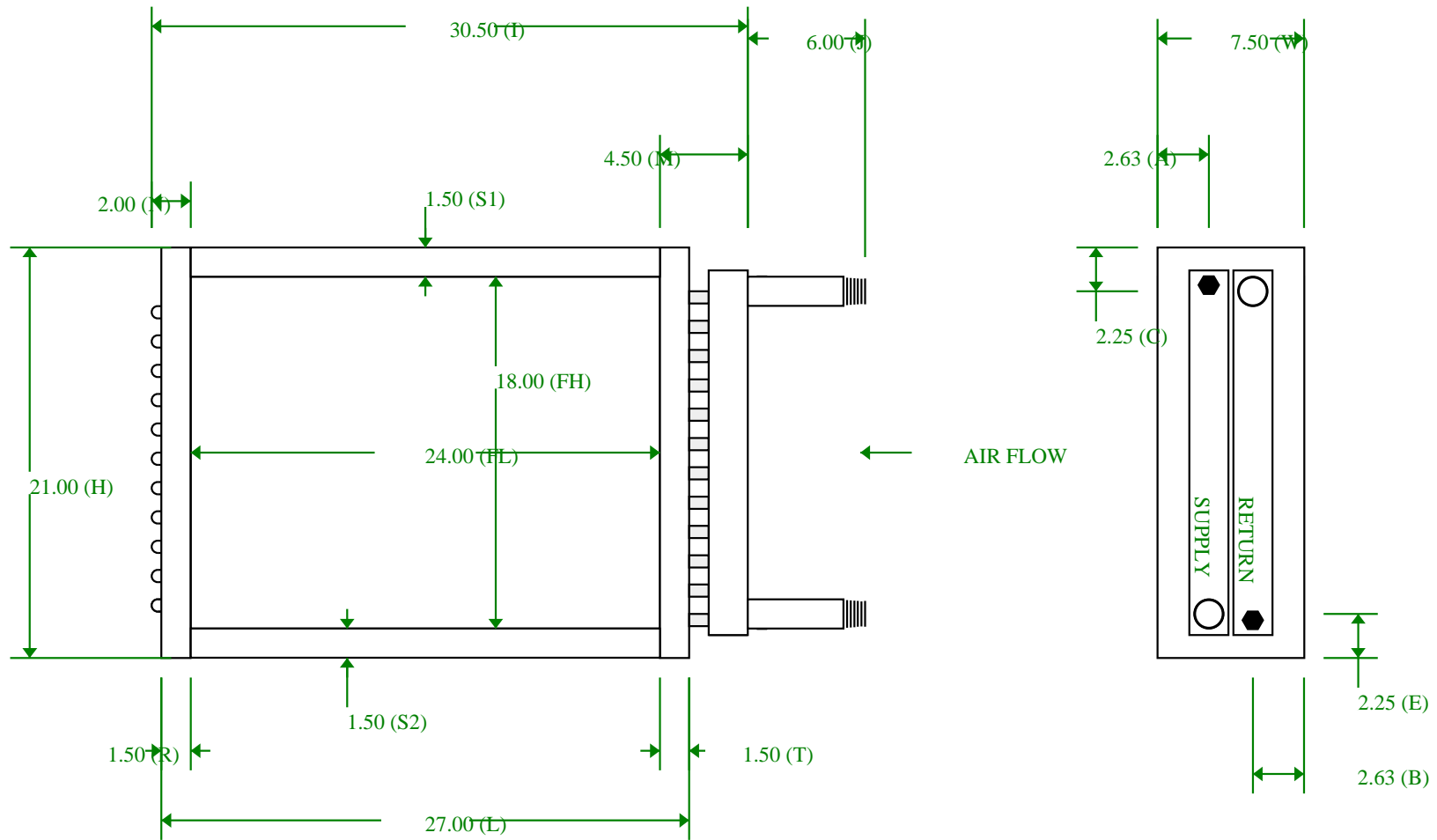
Tube [in]: 3/8 x 0.030 Copper
 Fin [in]: 12 FPI, 0.0095 Aluminum
 Rows: 1
 Casing material: Galvanized Steel
 Hand: Left
 Conn. material: Carbon Steel
 Conn. type: MPT
 Conn. qty: 1
 Conn. size [in]: 1.50 Same End
 Weight [lbs]: 21.79



Heatcraft® heat transfer coils



Date: 07-07-2023
Item: RHC-4211A
Quantity: 1
Model: 3M1201C - 14 x 14
Project: (116102) Eli Lilly - Building 4 Concord
Saved run:



General Notes

1. All dimensions are in inches.
2. Manually verifying dimensions is highly recommended.
3. The supply line should be connected to the lower connection on the leaving air side for counterflow operation.
4. Coils will vent and drain through factory-installed vent and drain fittings when mounted level for horizontal flow.
5. Connection location other than standard could affect vent and drain locations. Consult factory.

Options

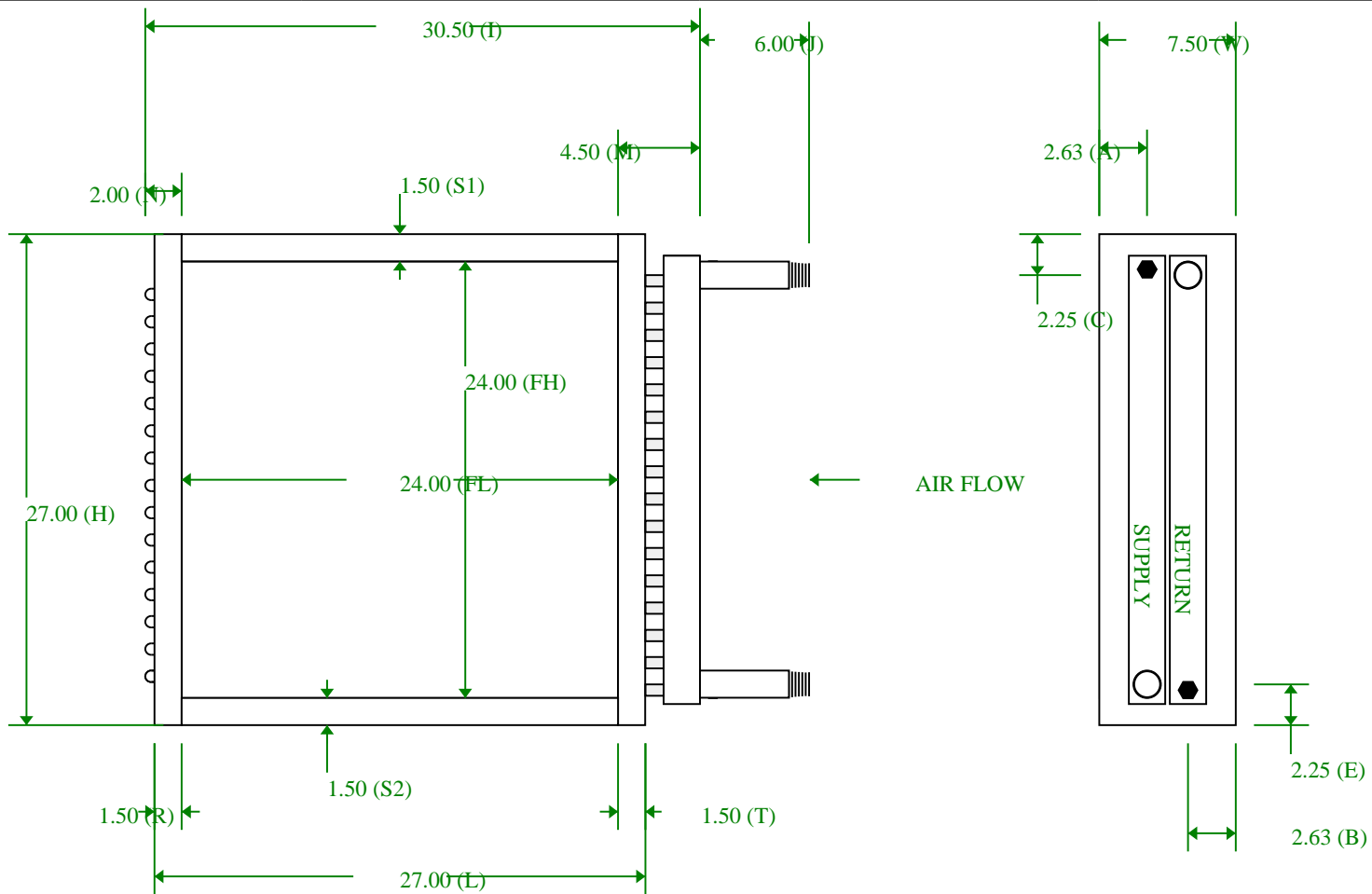
Casing type: Flanged
 Fluid: Water
 Vent/Drain: .50 FPT on Face

Materials of Construction

Tube [in]: 5/8 x 0.035 Copper
 Fin [in]: 8 FPI, 0.0095 Aluminum
 Rows: 2
 Casing material: Galvanized Steel
 Hand: Left
 Conn. material: Carbon Steel
 Conn. type: MPT
 Conn. qty: 1
 Conn. size [in]: 1.50 Same End
 Weight [lbs]: 45.45



Date: 07-07-2023
Item: RHC-4211B
Quantity: 1
Model: 5MI0802A - 18 x 24
Project: (116102) Eli Lilly - Building 4 Concord
Saved run:



General Notes

1. All dimensions are in inches.
2. Manually verifying dimensions is highly recommended.
3. The supply line should be connected to the lower connection on the leaving air side for counterflow operation.
4. Coils will vent and drain through factory-installed vent and drain fittings when mounted level for horizontal flow.
5. Connection location other than standard could affect vent and drain locations. Consult factory.

Options

Casing type: Flanged
 Fluid: Water
 Vent/Drain: .50 FPT on Face

Materials of Construction

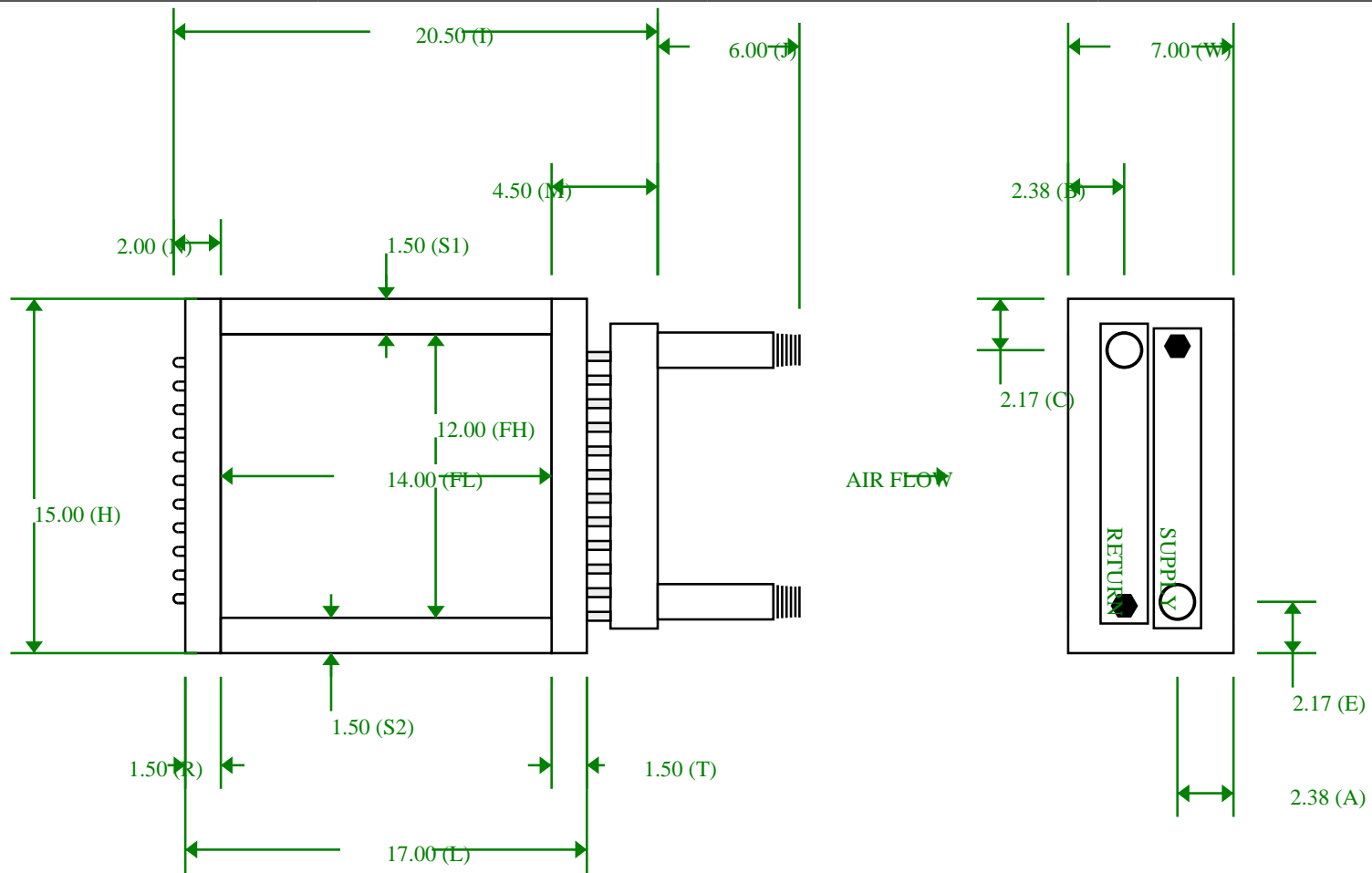
Tube [in]: 5/8 x 0.035 Copper
 Fin [in]: 8 FPI, 0.0095 Aluminum
 Rows: 2
 Casing material: Galvanized Steel
 Hand: Left
 Conn. material: Carbon Steel
 Conn. type: MPT
 Conn. qty: 1
 Conn. size [in]: 1.50 Same End
 Weight [lbs]: 57.48



Heatcraft® heat transfer coils



Date: 07-07-2023
Item: RHC-4211C
Quantity: 1
Model: 5MI0802A - 24 x 24
Project: (116102) Eli Lilly - Building 4 Concord
Saved run:



General Notes

1. All dimensions are in inches.
2. Manually verifying dimensions is highly recommended.
3. The supply line should be connected to the lower connection on the leaving air side for counterflow operation.
4. Coils will vent and drain through factory-installed vent and drain fittings when mounted level for horizontal flow.
5. Connection location other than standard could affect vent and drain locations. Consult factory.

Options

Casing type: Flanged
 Fluid: Water
 Vent/Drain: .50 FPT on Face

Materials of Construction

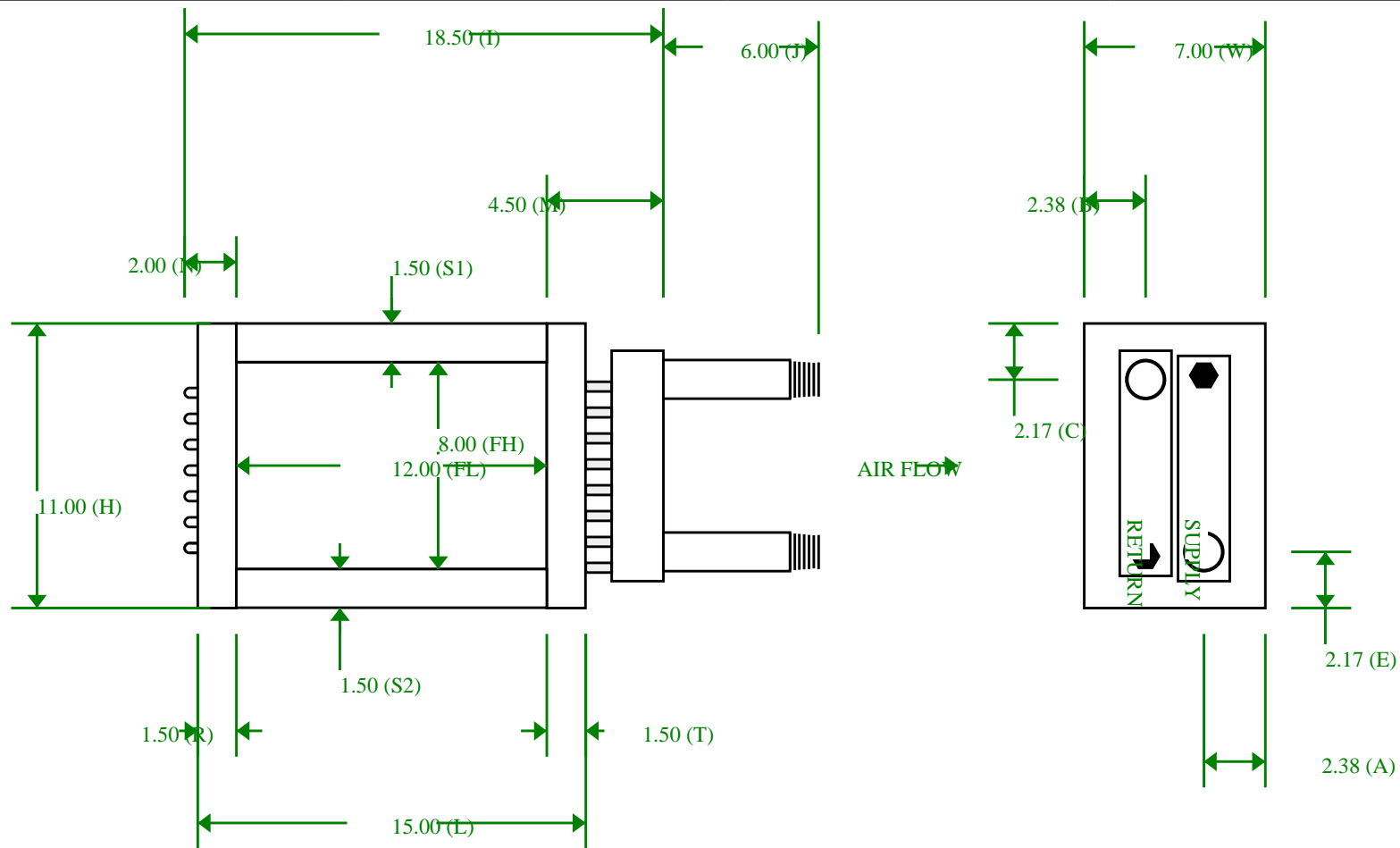
Tube [in]: 3/8 x 0.030 Copper
 Fin [in]: 8 FPI, 0.0095 Aluminum
 Rows: 2
 Casing material: Galvanized Steel
 Hand: Right
 Conn. material: Carbon Steel
 Conn. type: MPT
 Conn. qty: 1
 Conn. size [in]: 1.50 Same End
 Weight [lbs]: 21.41



Heatcraft® heat transfer coils



Date: 07-07-2023
Item: RHC-4212
Quantity: 1
Model: 3MQ0802B - 12 x 14
Project: (116102) Eli Lilly - Building 4 Concord
Saved run:



General Notes

1. All dimensions are in inches.
2. Manually verifying dimensions is highly recommended.
3. The supply line should be connected to the lower connection on the leaving air side for counterflow operation.
4. Coils will vent and drain through factory-installed vent and drain fittings when mounted level for horizontal flow.
5. Connection location other than standard could affect vent and drain locations. Consult factory.

Options

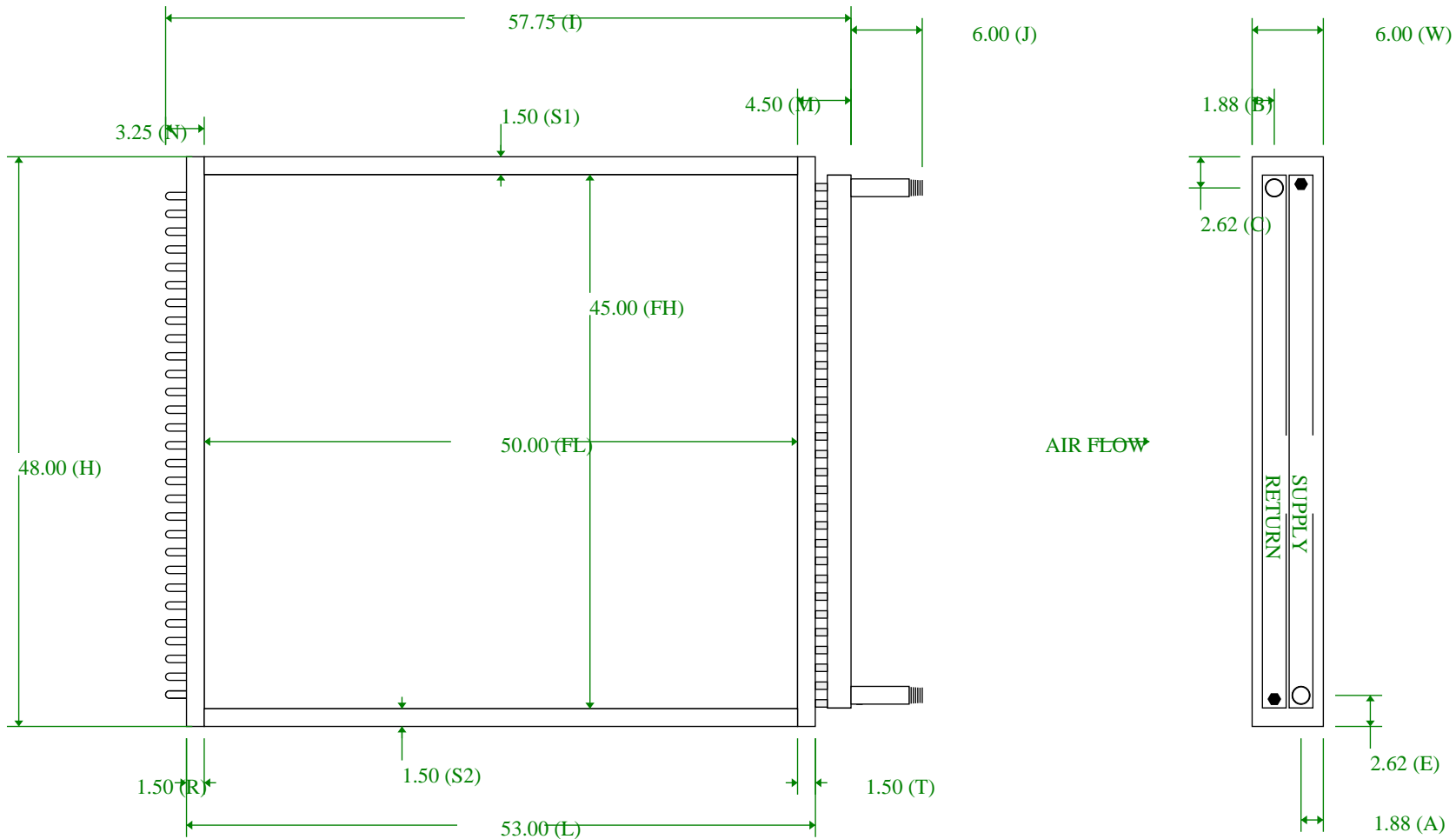
Casing type: Flanged
 Fluid: Water
 Vent/Drain: .50 FPT on Face

Materials of Construction

Tube [in]: 3/8 x 0.030 Copper
 Fin [in]: 7 FPI, 0.0095 Aluminum
 Rows: 2
 Casing material: Galvanized Steel
 Hand: Right
 Conn. material: Carbon Steel
 Conn. type: MPT
 Conn. qty: 1
 Conn. size [in]: 1.50 Same End
 Weight [lbs]: 14.62



Date: 07-07-2023
Item: RHC-4213A
Quantity: 1
Model: 3MQ0702B - 8 x 12
Project: (116102) Eli Lilly - Building 4 Concord
Saved run:



General Notes

1. All dimensions are in inches.
2. Manually verifying dimensions is highly recommended.
3. One intermediate tube support fabricated from stock of the same material as the casing will be provided.
4. The supply line should be connected to the lower connection on the leaving air side for counterflow operation.
5. Coils will vent and drain through factory-installed vent and drain fittings when mounted level for horizontal flow.
6. Connection location other than standard could affect vent and drain locations. Consult factory.

Options

Casing type: Flanged
 Fluid: Water
 Vent/Drain: .50 FPT on Face

Materials of Construction

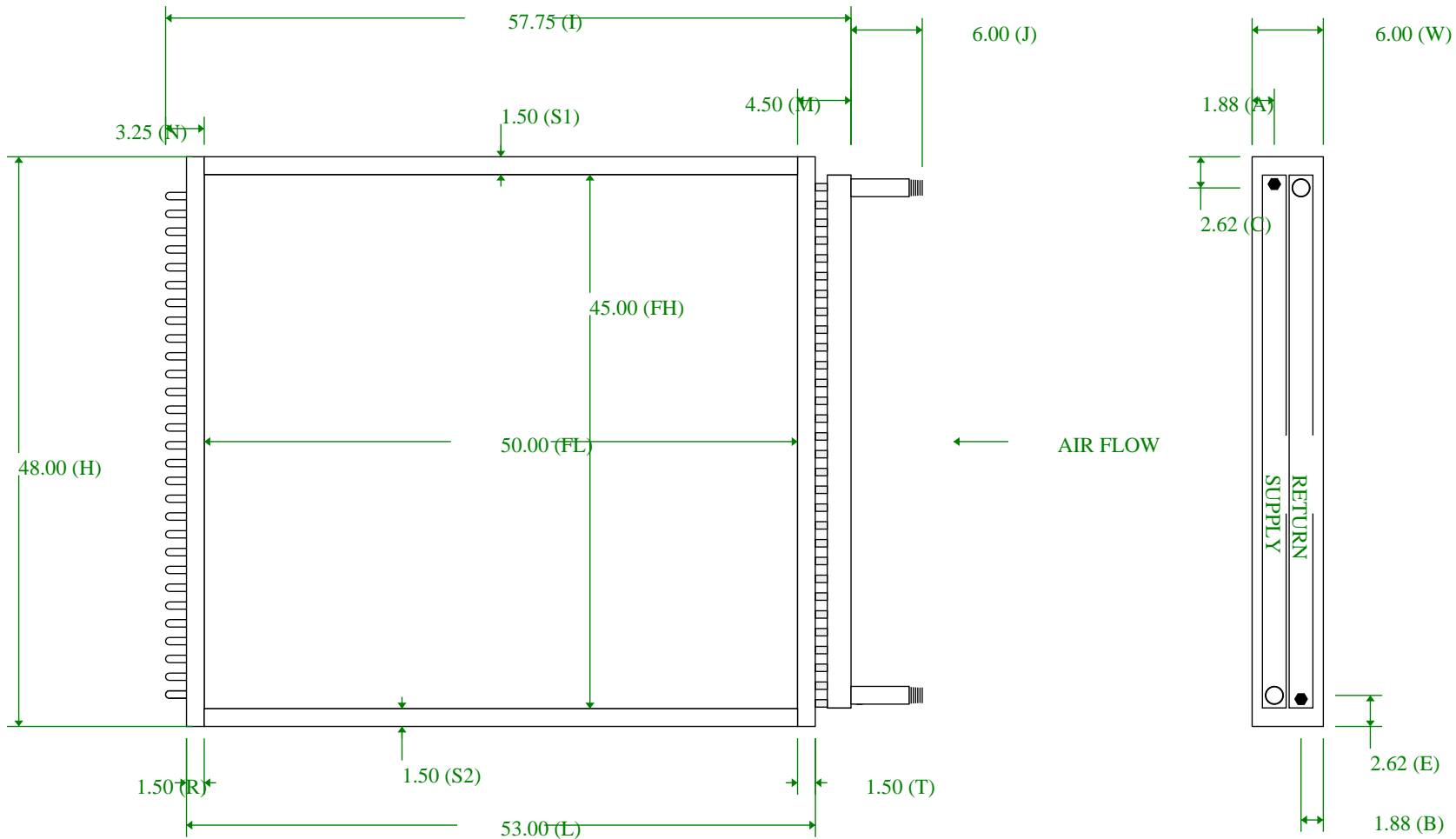
Tube [in]: 5/8 x 0.035 Copper
 Fin [in]: 11 FPI, 0.0095 Aluminum
 Rows: 1
 Casing material: Galvanized Steel
 Hand: Right
 Conn. material: Carbon Steel
 Conn. type: MPT
 Conn. qty: 1
 Conn. size [in]: 1.50 Same End
 Weight [lbs]: 118.6



Heatcraft® heat transfer coils



Date: 07-07-2023
Item: RHC-4901A
Quantity: 1
Model: 5MQ1101B - 45 x 50
Project: (116102) Eli Lilly - Building 4 Concord
Saved run:



General Notes

1. All dimensions are in inches.
2. Manually verifying dimensions is highly recommended.
3. One intermediate tube support fabricated from stock of the same material as the casing will be provided.
4. The supply line should be connected to the lower connection on the leaving air side for counterflow operation.
5. Coils will vent and drain through factory-installed vent and drain fittings when mounted level for horizontal flow.
6. Connection location other than standard could affect vent and drain locations. Consult factory.

Options

Casing type: Flanged
 Fluid: Water
 Vent/Drain: .50 FPT on Face

Materials of Construction

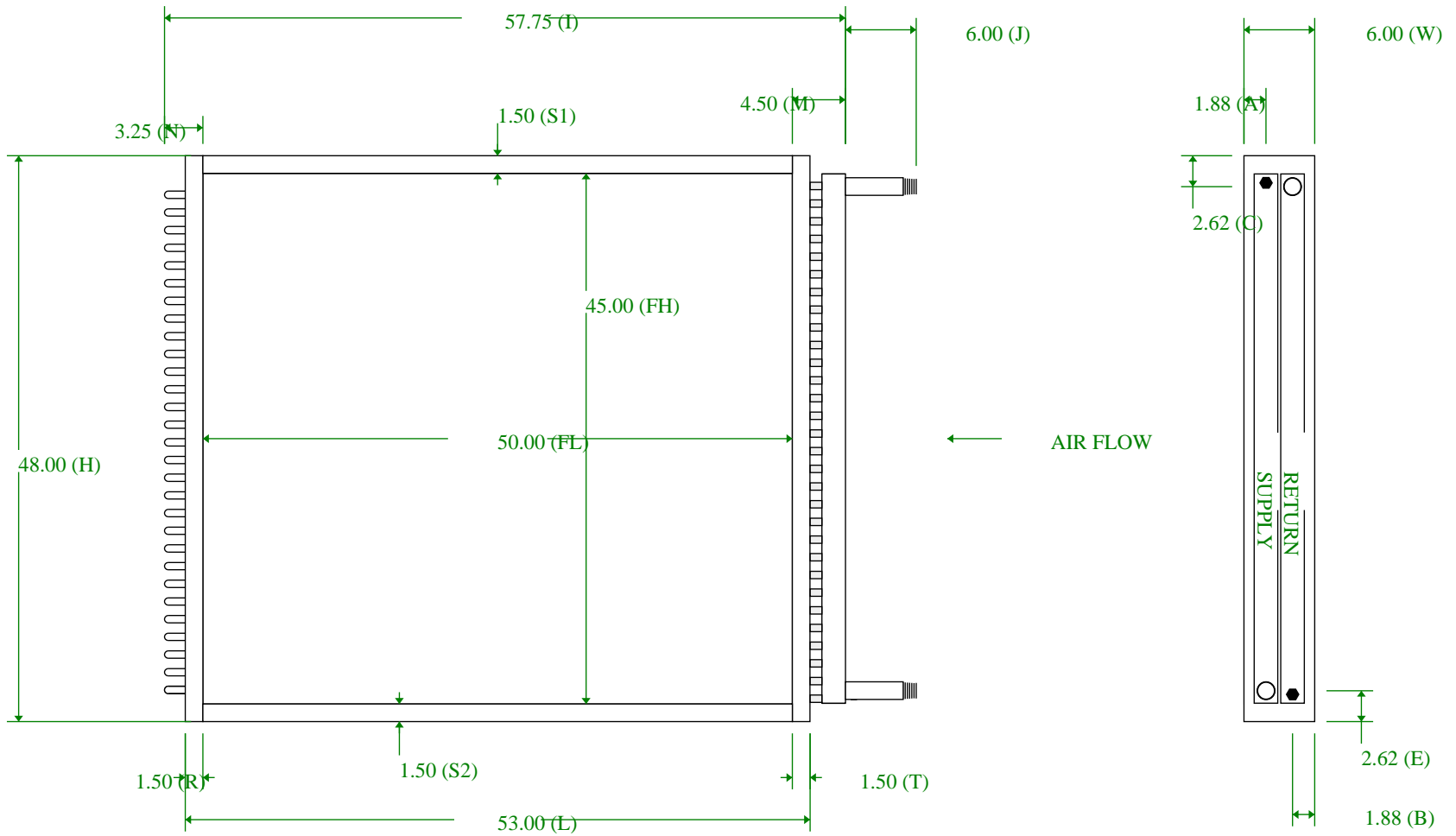
Tube [in]: 5/8 x 0.035 Copper
 Fin [in]: 11 FPI, 0.0095 Aluminum
 Rows: 1
 Casing material: Galvanized Steel
 Hand: Left
 Conn. material: Carbon Steel
 Conn. type: MPT
 Conn. qty: 1
 Conn. size [in]: 1.50 Same End
 Weight [lbs]: 118.6



Heatcraft® heat transfer coils



Date: 07-07-2023
Item: RHC-4901B,D; RHC-4902B; RHC-4904B,C; RHC-4905B
Quantity: 6
Model: 5MQ1101B - 45 x 50
Project: (116102) Eli Lilly - Building 4 Concord
Saved run:



General Notes

1. All dimensions are in inches.
2. Manually verifying dimensions is highly recommended.
3. One intermediate tube support fabricated from stock of the same material as the casing will be provided.
4. The supply line should be connected to the lower connection on the leaving air side for counterflow operation.
5. Coils will vent and drain through factory-installed vent and drain fittings when mounted level for horizontal flow.
6. Connection location other than standard could affect vent and drain locations. Consult factory.

Options

Casing type: Flanged
 Fluid: Water
 Vent/Drain: .50 FPT on Face

Materials of Construction

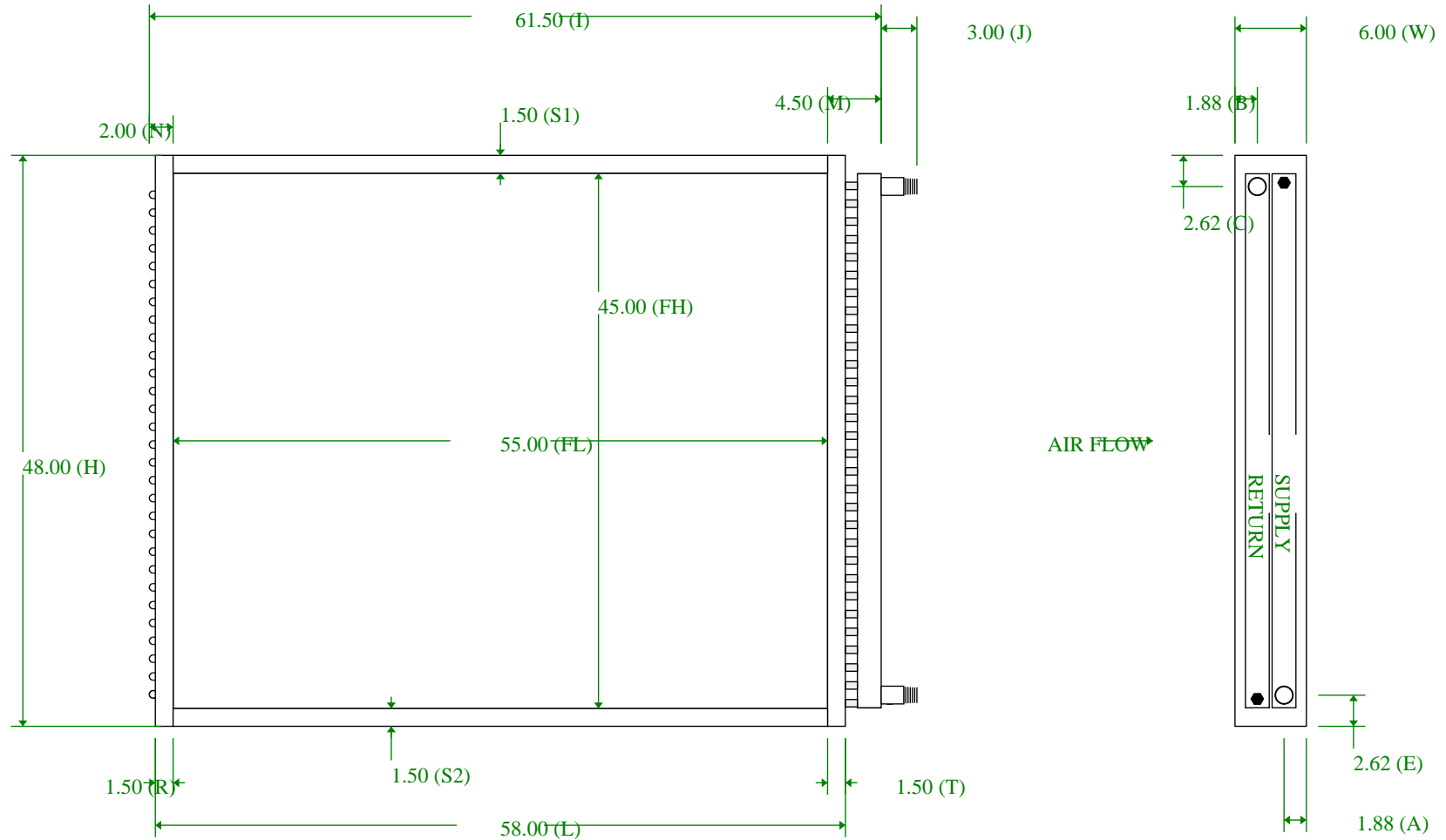
Tube [in]: 5/8 x 0.035 Copper
 Fin [in]: 11 FPI, 0.0095 Aluminum
 Rows: 1
 Casing material: Galvanized Steel
 Hand: Left
 Conn. material: Carbon Steel
 Conn. type: MPT
 Conn. qty: 1
 Conn. size [in]: 1.50 Same End
 Weight [lbs]: 118.6



Heatcraft® heat transfer coils



Date: 07-07-2023
Item: RHC-4901B,D; RHC-4902B; RHC-4904B,C; RHC-4905B -COPY
Quantity: 6
Model: 5MQ1101B - 45 x 50
Project: (116102) Eli Lilly - Building 4 Concord
Saved run:



General Notes

1. All dimensions are in inches.
2. Manually verifying dimensions is highly recommended.
3. One intermediate tube support fabricated from stock of the same material as the casing will be provided.
4. The supply line should be connected to the lower connection on the leaving air side for counterflow operation.
5. Coils will vent and drain through factory-installed vent and drain fittings when mounted level for horizontal flow.
6. Connection location other than standard could affect vent and drain locations. Consult factory.

Options

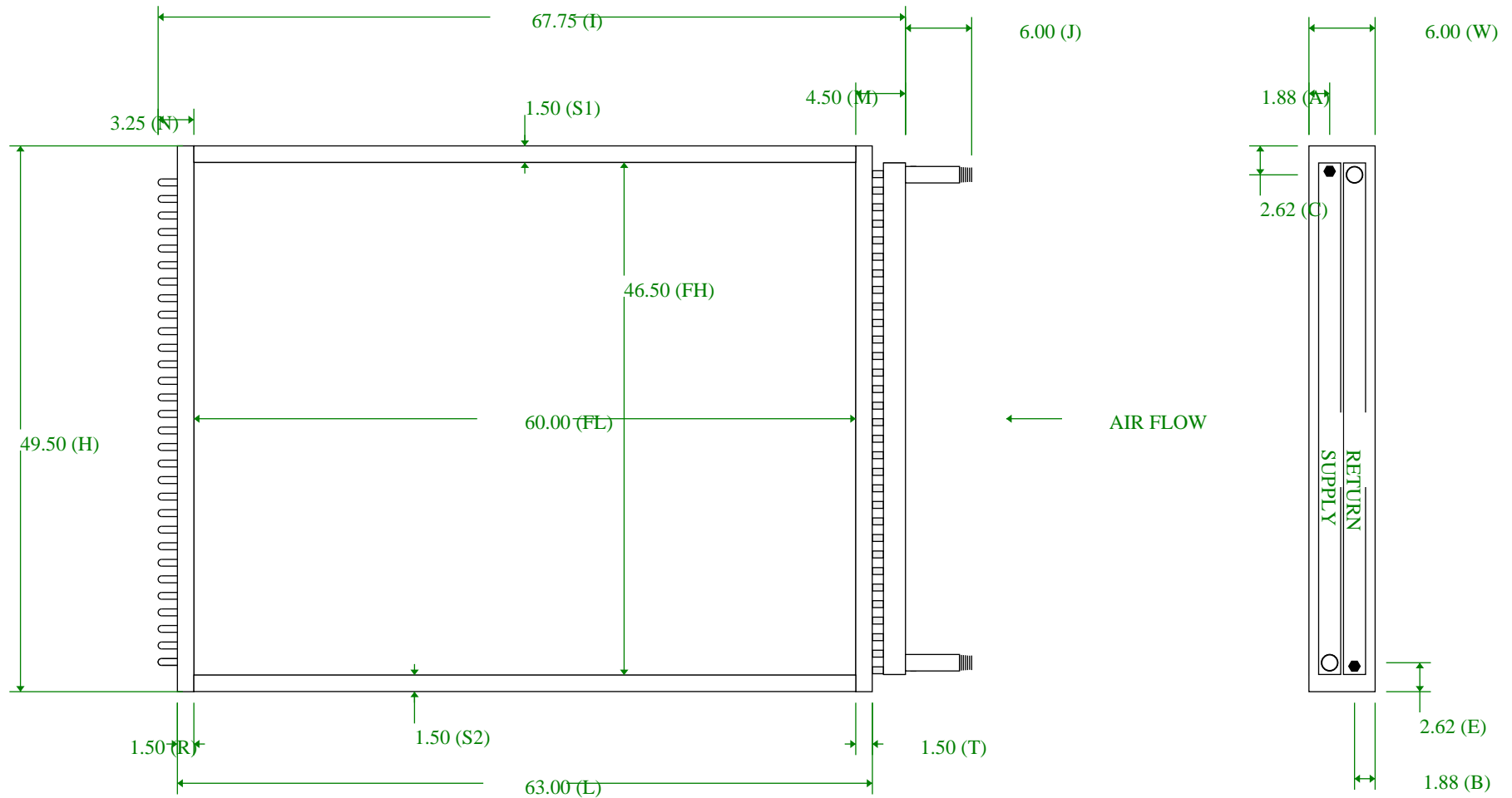
Casing type: Flanged
 Fluid: Water
 Vent/Drain: .50 FPT on Face

Materials of Construction

Tube [in]: 5/8 x 0.035 Copper
 Fin [in]: 10 FPI, 0.0095 Aluminum
 Rows: 1
 Casing material: Galvanized Steel
 Hand: Right
 Conn. material: Carbon Steel
 Conn. type: MPT
 Conn. qty: 1
 Conn. size [in]: 1.50 Same End
 Weight [lbs]: 123.9



Date: 07-07-2023
Item: RHC-4901C
Quantity: 1
Model: 5MQ1001C - 45 x 55
Project: (116102) Eli Lilly - Building 4 Concord
Saved run:



General Notes

1. All dimensions are in inches.
2. Manually verifying dimensions is highly recommended.
3. One intermediate tube support fabricated from stock of the same material as the casing will be provided.
4. The supply line should be connected to the lower connection on the leaving air side for counterflow operation.
5. Coils will vent and drain through factory-installed vent and drain fittings when mounted level for horizontal flow.
6. Connection location other than standard could affect vent and drain locations. Consult factory.

Options

Casing type: Flanged
 Fluid: Water
 Vent/Drain: .50 FPT on Face

Materials of Construction

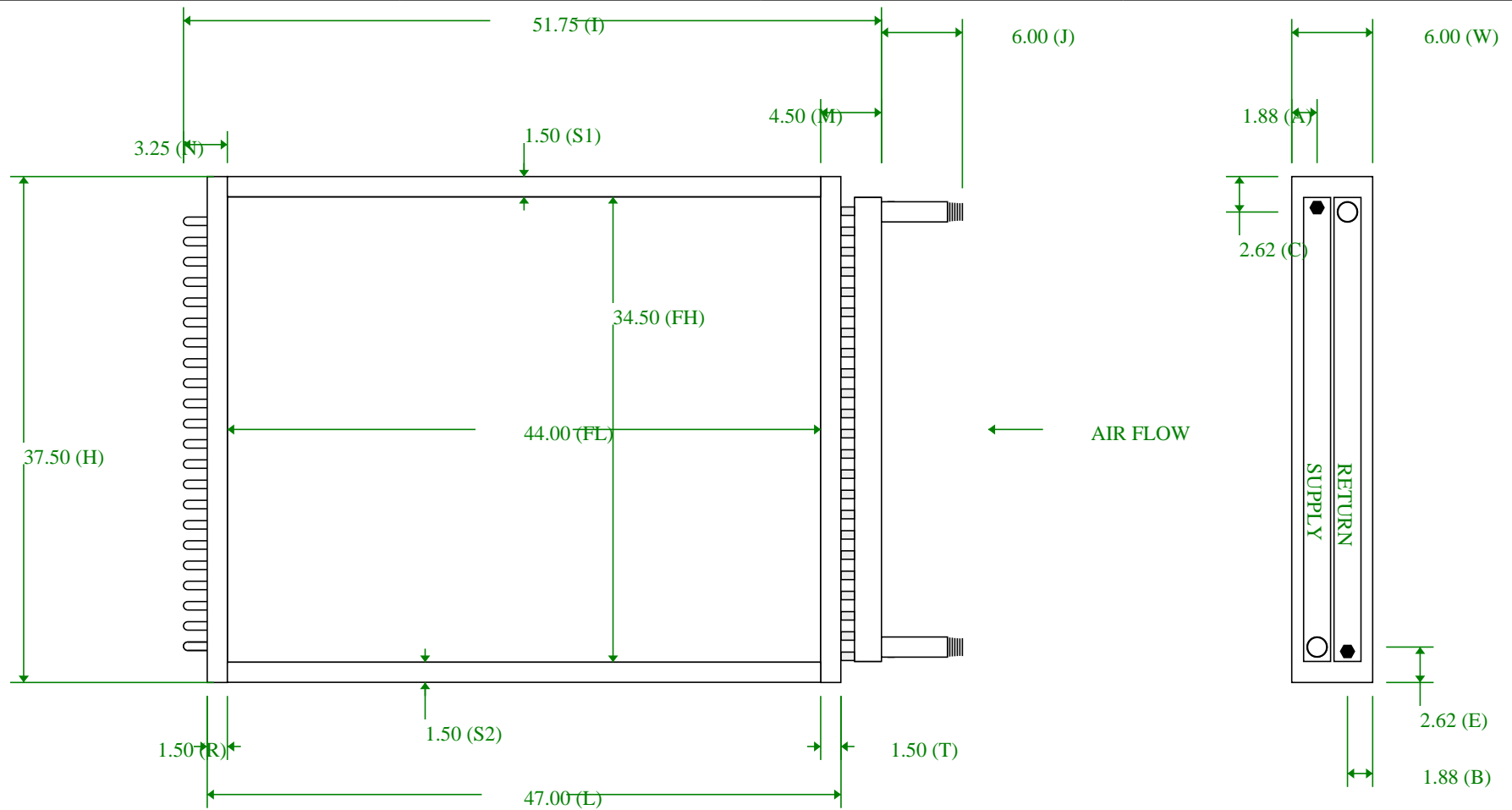
Tube [in]: 5/8 x 0.035 Copper
 Fin [in]: 10 FPI, 0.0095 Aluminum
 Rows: 1
 Casing material: Galvanized Steel
 Hand: Left
 Conn. material: Carbon Steel
 Conn. type: MPT
 Conn. qty: 1
 Conn. size [in]: 1.50 Same End
 Weight [lbs]: 135.2



Heatcraft heat transfer coils



Date: 07-07-2023
Item: RHC-4902A
Quantity: 1
Model: 5MQ1001B - 46.5 x 60
Project: (116102) Eli Lilly - Building 4 Concord
Saved run:



General Notes

1. All dimensions are in inches.
2. Manually verifying dimensions is highly recommended.
3. The supply line should be connected to the lower connection on the leaving air side for counterflow operation.
4. Coils will vent and drain through factory-installed vent and drain fittings when mounted level for horizontal flow.
5. Connection location other than standard could affect vent and drain locations. Consult factory.

Options

Casing type: Flanged
 Fluid: Water
 Vent/Drain: .50 FPT on Face

Materials of Construction

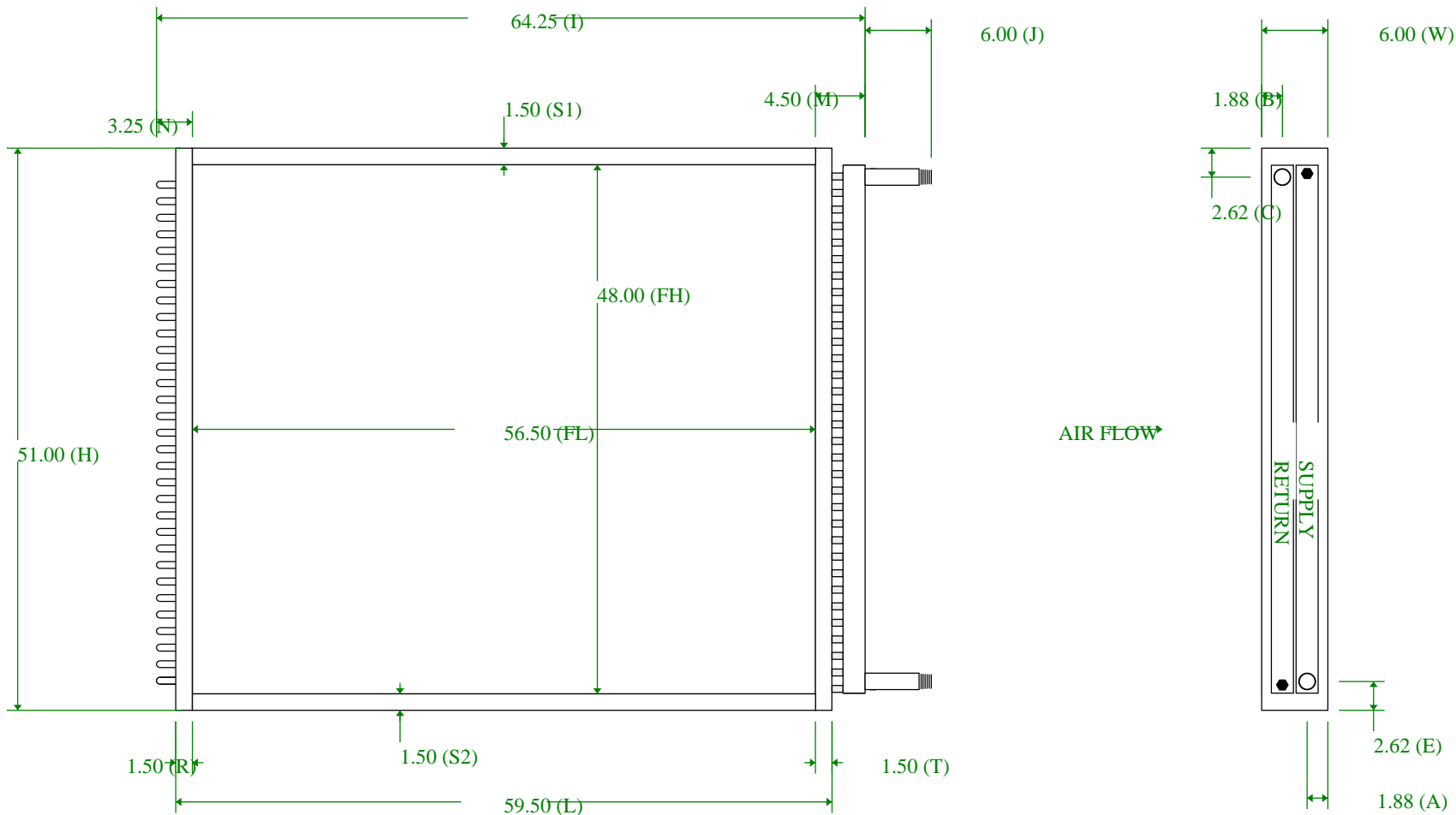
Tube [in]: 5/8 x 0.035 Copper
 Fin [in]: 10 FPI, 0.0095 Aluminum
 Rows: 1
 Casing material: Galvanized Steel
 Hand: Left
 Conn. material: Carbon Steel
 Conn. type: MPT
 Conn. qty: 1
 Conn. size [in]: 1.50 Same End
 Weight [lbs]: 86.17



Heatcraft heat transfer coils



Date: 07-07-2023
Item: RHC-4902C
Quantity: 1
Model: 5MQ1001C - 34.5 x 44
Project: (116102) Eli Lilly - Building 4 Concord
Saved run:



General Notes

1. All dimensions are in inches.
2. Manually verifying dimensions is highly recommended.
3. One intermediate tube support fabricated from stock of the same material as the casing will be provided.
4. The supply line should be connected to the lower connection on the leaving air side for counterflow operation.
5. Coils will vent and drain through factory-installed vent and drain fittings when mounted level for horizontal flow.
6. Connection location other than standard could affect vent and drain locations. Consult factory.

Options

Casing type: Flanged
 Fluid: Water
 Vent/Drain: .50 FPT on Face

Materials of Construction

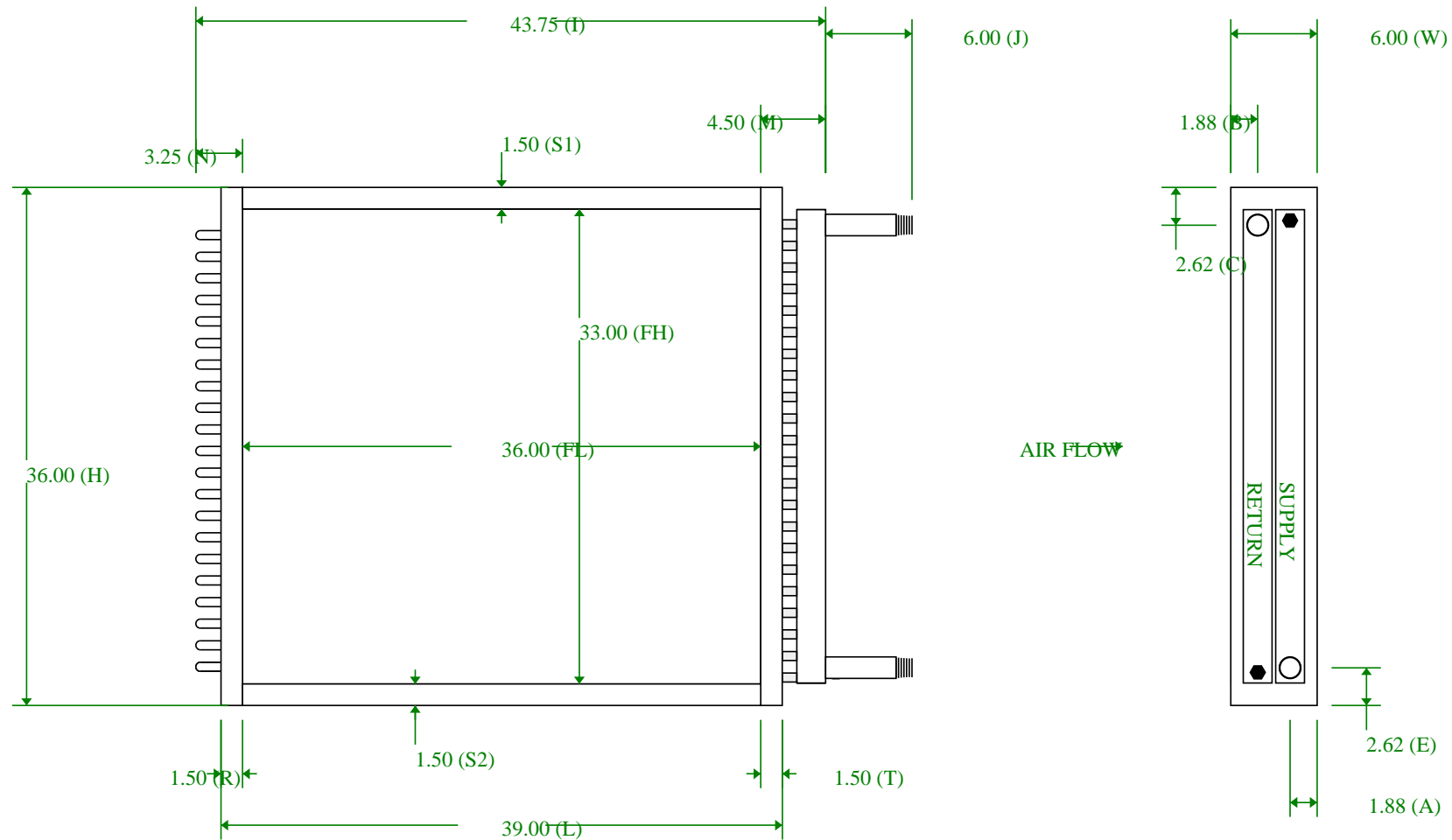
Tube [in]: 5/8 x 0.035 Copper
 Fin [in]: 10 FPI, 0.0095 Aluminum
 Rows: 1
 Casing material: Galvanized Steel
 Hand: Right
 Conn. material: Carbon Steel
 Conn. type: MPT
 Conn. qty: 1
 Conn. size [in]: 1.50 Same End
 Weight [lbs]: 133.2



Heatcraft® heat transfer coils



Date: 07-07-2023
Item: RHC-4902D
Quantity: 1
Model: 5MQ1001C - 48 x 56.5
Project: (116102) Eli Lilly - Building 4 Concord
Saved run:



General Notes

1. All dimensions are in inches.
2. Manually verifying dimensions is highly recommended.
3. The supply line should be connected to the lower connection on the leaving air side for counterflow operation.
4. Coils will vent and drain through factory-installed vent and drain fittings when mounted level for horizontal flow.
5. Connection location other than standard could affect vent and drain locations. Consult factory.

Options

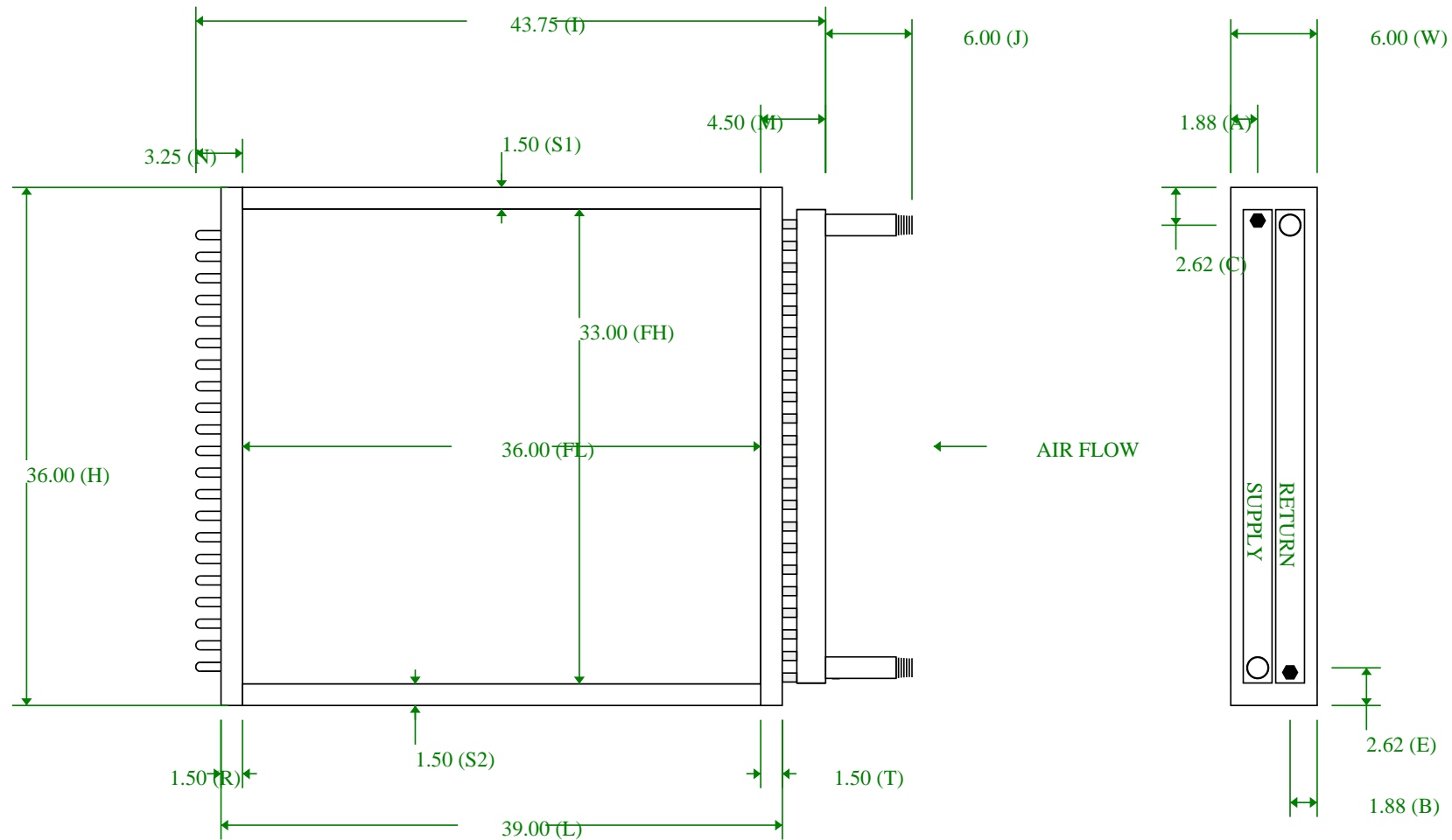
Casing type: Flanged
 Fluid: Water
 Vent/Drain: .50 FPT on Face

Materials of Construction

Tube [in]: 5/8 x 0.035 Copper
 Fin [in]: 11 FPI, 0.0095 Aluminum
 Rows: 1
 Casing material: Galvanized Steel
 Hand: Right
 Conn. material: Carbon Steel
 Conn. type: MPT
 Conn. qty: 1
 Conn. size [in]: 1.50 Same End
 Weight [lbs]: 74.58



Date: 07-07-2023
Item: RHC-4903A,D
Quantity: 2
Model: 5MI1101B - 33 x 36
Project: (116102) Eli Lilly - Building 4 Concord
Saved run:



General Notes

1. All dimensions are in inches.
2. Manually verifying dimensions is highly recommended.
3. The supply line should be connected to the lower connection on the leaving air side for counterflow operation.
4. Coils will vent and drain through factory-installed vent and drain fittings when mounted level for horizontal flow.
5. Connection location other than standard could affect vent and drain locations. Consult factory.

Options

Casing type: Flanged
 Fluid: Water
 Vent/Drain: .50 FPT on Face

Materials of Construction

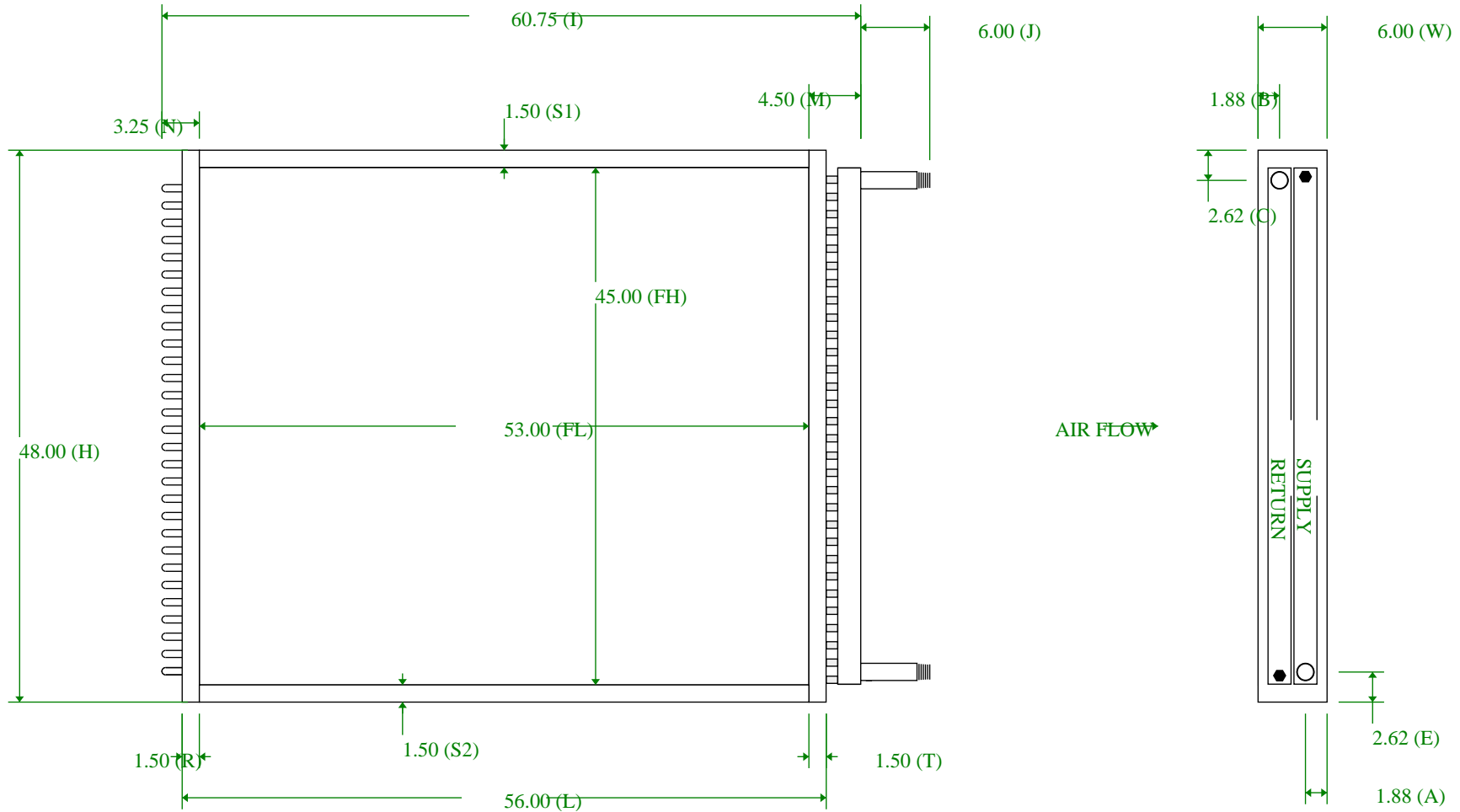
Tube [in]: 5/8 x 0.035 Copper
 Fin [in]: 11 FPI, 0.0095 Aluminum
 Rows: 1
 Casing material: Galvanized Steel
 Hand: Left
 Conn. material: Carbon Steel
 Conn. type: MPT
 Conn. qty: 1
 Conn. size [in]: 1.50 Same End
 Weight [lbs]: 74.58



Heatcraft® heat transfer coils



Date: 07-07-2023
Item: RHC-4903B
Quantity: 1
Model: 5MI1101B - 33 x 36
Project: (116102) Eli Lilly - Building 4 Concord
Saved run:



General Notes

1. All dimensions are in inches.
2. Manually verifying dimensions is highly recommended.
3. One intermediate tube support fabricated from stock of the same material as the casing will be provided.
4. The supply line should be connected to the lower connection on the leaving air side for counterflow operation.
5. Coils will vent and drain through factory-installed vent and drain fittings when mounted level for horizontal flow.
6. Connection location other than standard could affect vent and drain locations. Consult factory.

Options

Casing type: Flanged
 Fluid: Water
 Vent/Drain: .50 FPT on Face

Materials of Construction

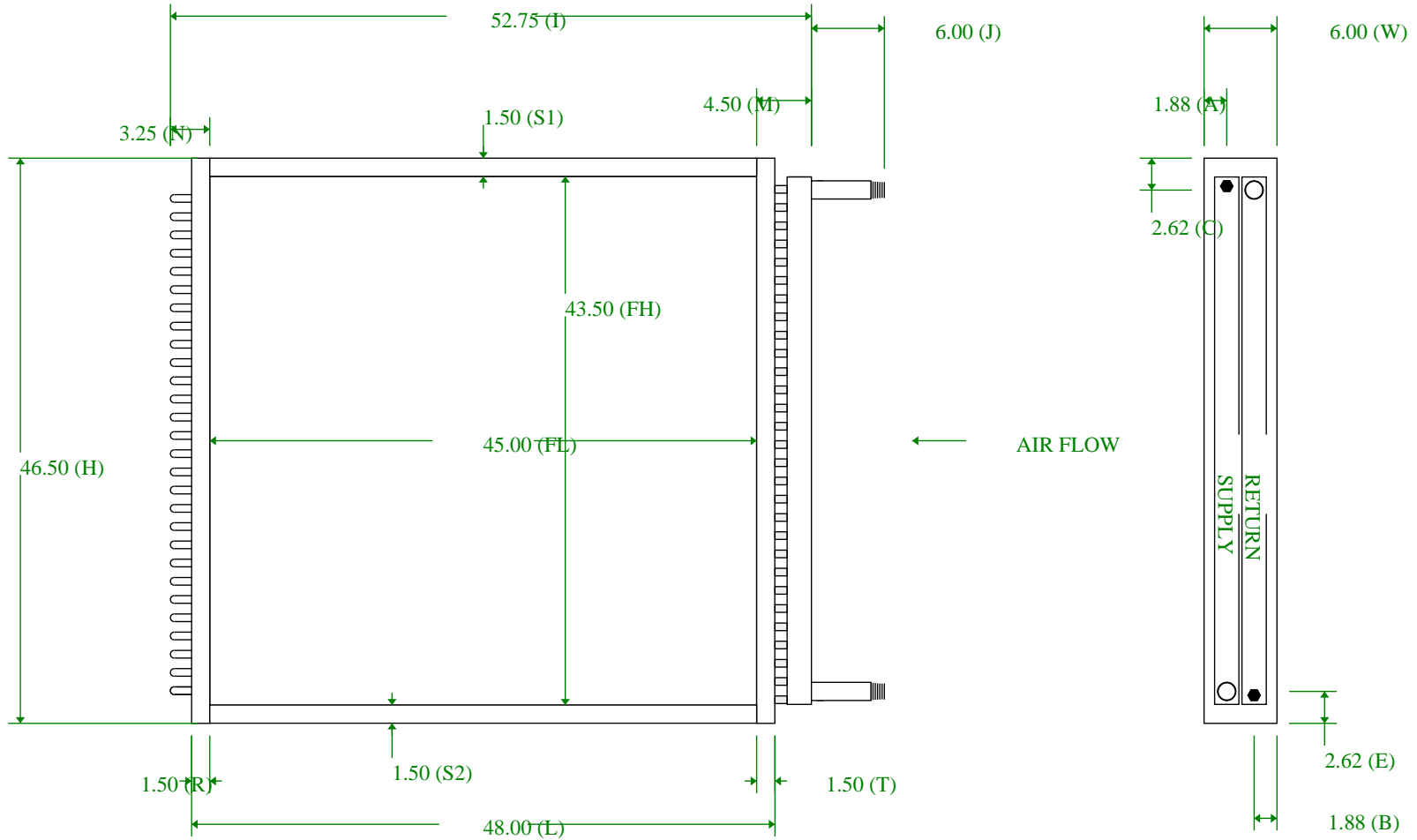
Tube [in]: 5/8 x 0.035 Copper
 Fin [in]: 11 FPI, 0.0095 Aluminum
 Rows: 1
 Casing material: Galvanized Steel
 Hand: Right
 Conn. material: Carbon Steel
 Conn. type: MPT
 Conn. qty: 1
 Conn. size [in]: 1.50 Same End
 Weight [lbs]: 123.3



Heatcraft heat transfer coils



Date: 07-07-2023
Item: RHC-4903C
Quantity: 1
Model: 5MQ1101B - 45 x 53
Project: (116102) Eli Lilly - Building 4 Concord
Saved run:



General Notes

1. All dimensions are in inches.
2. Manually verifying dimensions is highly recommended.
3. The supply line should be connected to the lower connection on the leaving air side for counterflow operation.
4. Coils will vent and drain through factory-installed vent and drain fittings when mounted level for horizontal flow.
5. Connection location other than standard could affect vent and drain locations. Consult factory.

Options

Casing type: Flanged
 Fluid: Water
 Vent/Drain: .50 FPT on Face

Materials of Construction

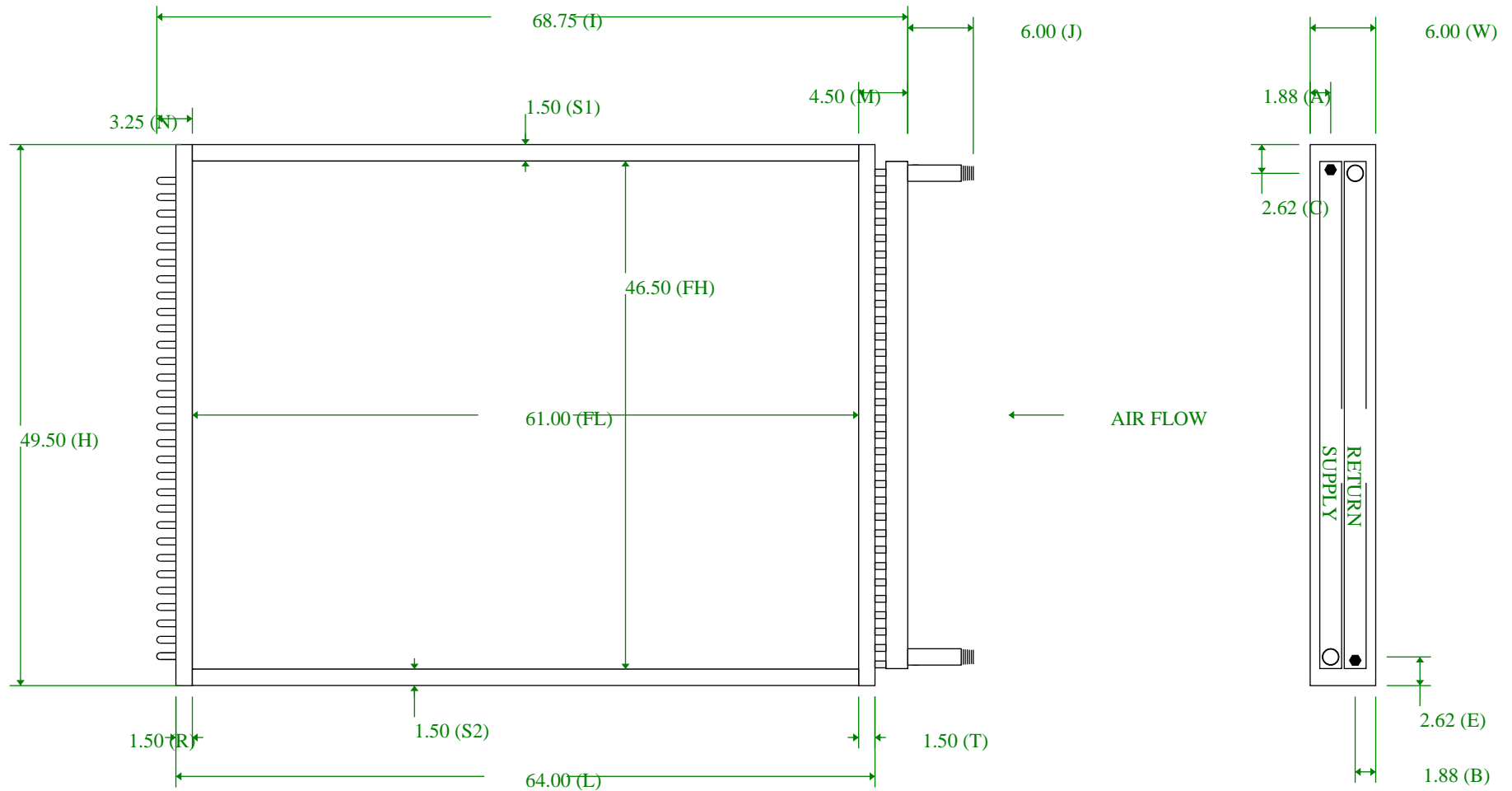
Tube [in]: 5/8 x 0.035 Copper
 Fin [in]: 11 FPI, 0.0095 Aluminum
 Rows: 1
 Casing material: Galvanized Steel
 Hand: Left
 Conn. material: Carbon Steel
 Conn. type: MPT
 Conn. qty: 1
 Conn. size [in]: 1.50 Same End
 Weight [lbs]: 107.6



Heatcraft® heat transfer coils



Date: 07-07-2023
Item: RHC-4904A
Quantity: 1
Model: 5MQ1101B - 43.5 x 45
Project: (116102) Eli Lilly - Building 4 Concord
Saved run:



General Notes

1. All dimensions are in inches.
2. Manually verifying dimensions is highly recommended.
3. One intermediate tube support fabricated from stock of the same material as the casing will be provided.
4. The supply line should be connected to the lower connection on the leaving air side for counterflow operation.
5. Coils will vent and drain through factory-installed vent and drain fittings when mounted level for horizontal flow.
6. Connection location other than standard could affect vent and drain locations. Consult factory.

Options

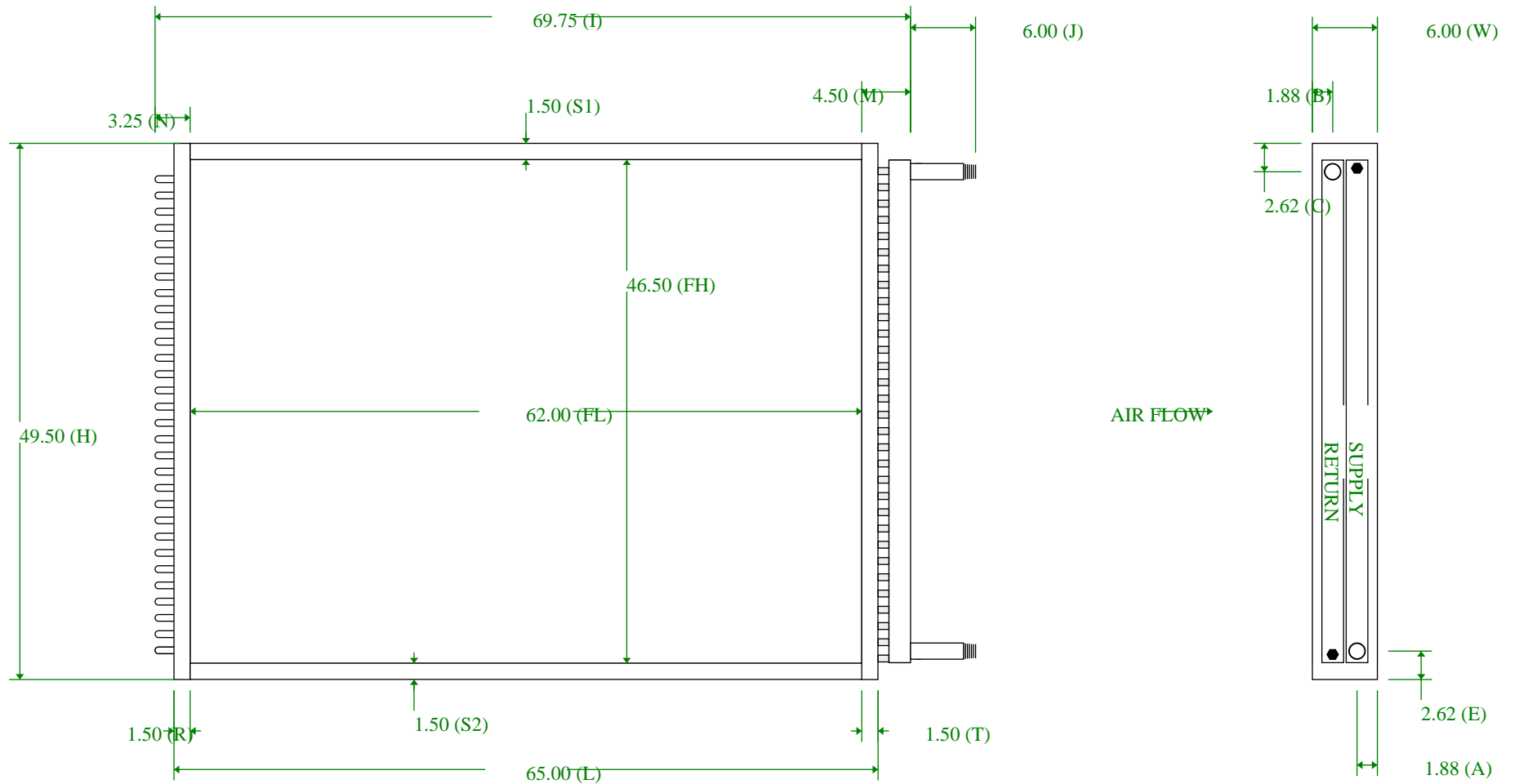
Casing type: Flanged
 Fluid: Water
 Vent/Drain: .50 FPT on Face

Materials of Construction

Tube [in]: 5/8 x 0.035 Copper
 Fin [in]: 11 FPI, 0.0095 Aluminum
 Rows: 1
 Casing material: Galvanized Steel
 Hand: Left
 Conn. material: Carbon Steel
 Conn. type: MPT
 Conn. qty: 1
 Conn. size [in]: 1.50 Same End
 Weight [lbs]: 139.6



Date: 07-07-2023
Item: RHC-4904D
Quantity: 1
Model: 5MQ1101B - 46.5 x 61
Project: (116102) Eli Lilly - Building 4 Concord
Saved run:



General Notes

1. All dimensions are in inches.
2. Manually verifying dimensions is highly recommended.
3. One intermediate tube support fabricated from stock of the same material as the casing will be provided.
4. The supply line should be connected to the lower connection on the leaving air side for counterflow operation.
5. Coils will vent and drain through factory-installed vent and drain fittings when mounted level for horizontal flow.
6. Connection location other than standard could affect vent and drain locations. Consult factory.

Options

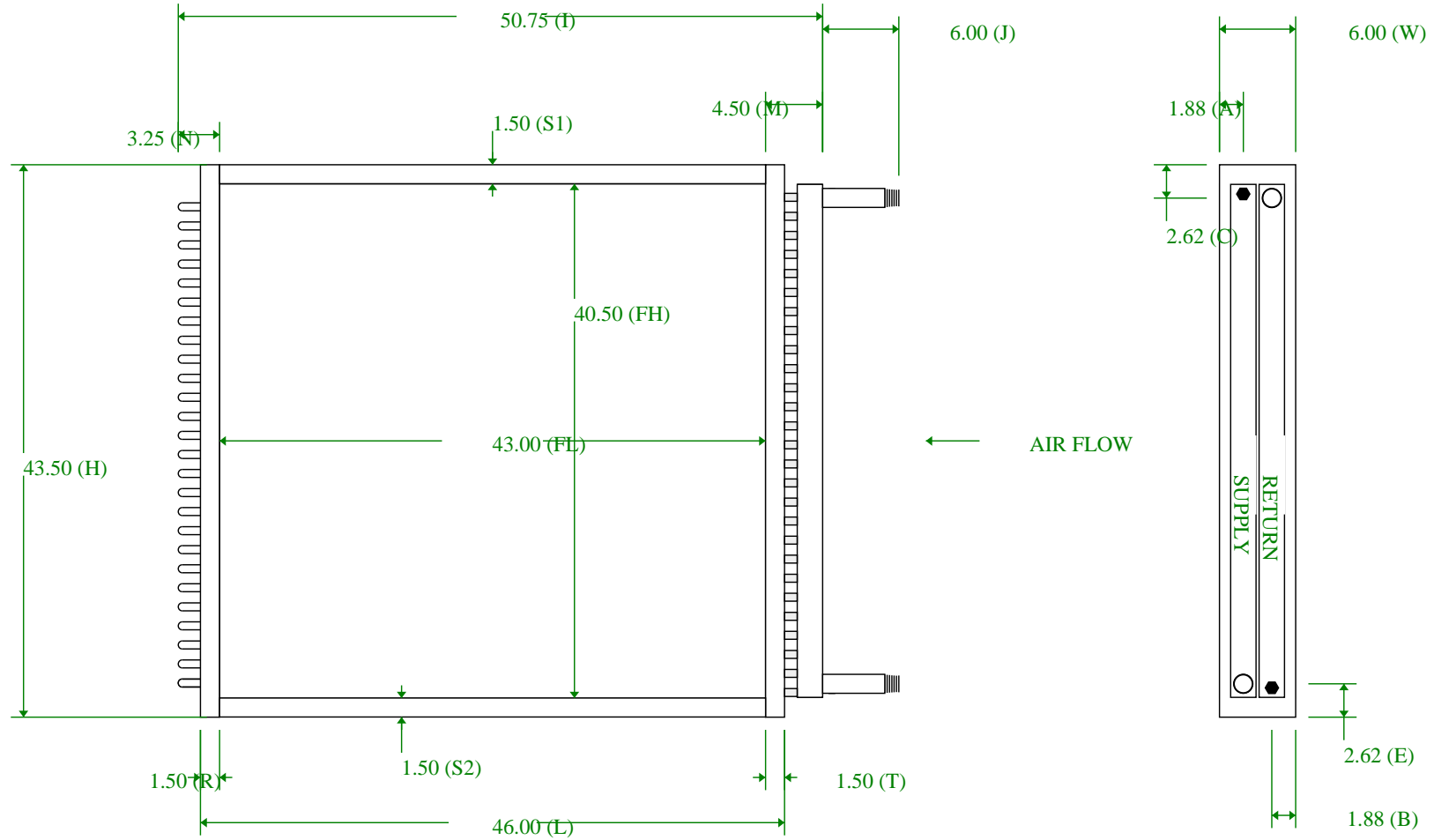
Casing type: Flanged
 Fluid: Water
 Vent/Drain: .50 FPT on Face

Materials of Construction

Tube [in]: 5/8 x 0.035 Copper
 Fin [in]: 11 FPI, 0.0095 Aluminum
 Rows: 1
 Casing material: Galvanized Steel
 Hand: Right
 Conn. material: Carbon Steel
 Conn. type: MPT
 Conn. qty: 1
 Conn. size [in]: 1.50 Same End
 Weight [lbs]: 141.2



Date: 07-07-2023
Item: RHC-4905A
Quantity: 1
Model: 5MQ1101B - 46.5 x 62
Project: (116102) Eli Lilly - Building 4 Concord
Saved run:



General Notes

1. All dimensions are in inches.
2. Manually verifying dimensions is highly recommended.
3. The supply line should be connected to the lower connection on the leaving air side for counterflow operation.
4. Coils will vent and drain through factory-installed vent and drain fittings when mounted level for horizontal flow.
5. Connection location other than standard could affect vent and drain locations. Consult factory.

Options

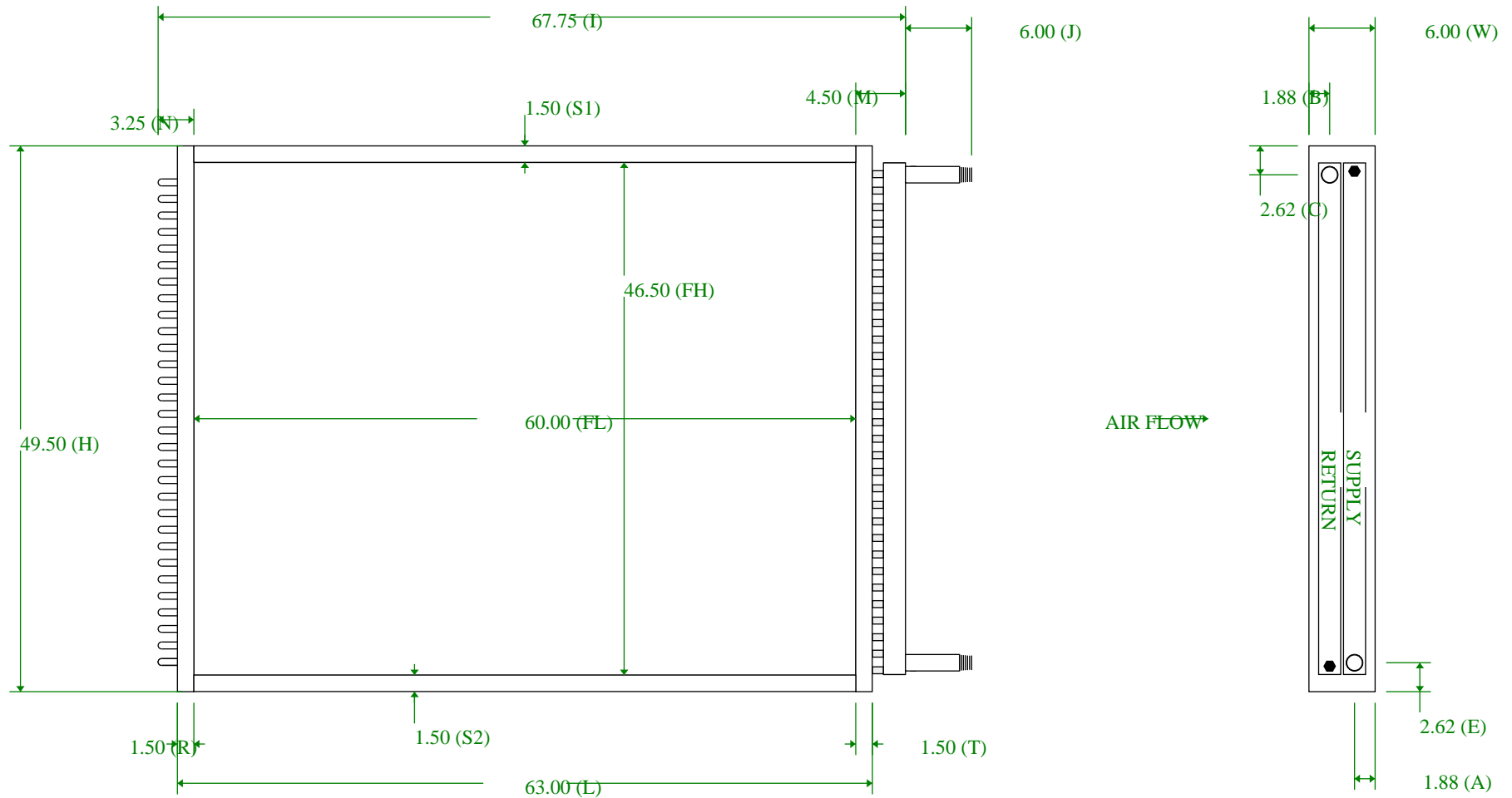
Casing type: Flanged
 Fluid: Water
 Vent/Drain: .50 FPT on Face

Materials of Construction

Tube [in]: 5/8 x 0.035 Copper
 Fin [in]: 11 FPI, 0.0095 Aluminum
 Rows: 1
 Casing material: Galvanized Steel
 Hand: Left
 Conn. material: Carbon Steel
 Conn. type: MPT
 Conn. qty: 1
 Conn. size [in]: 1.50 Same End
 Weight [lbs]: 98.49



Date: 07-07-2023
Item: RHC-4905C
Quantity: 1
Model: 5MQ1101B - 40.5 x 43
Project: (116102) Eli Lilly - Building 4 Concord
Saved run:



General Notes

1. All dimensions are in inches.
2. Manually verifying dimensions is highly recommended.
3. One intermediate tube support fabricated from stock of the same material as the casing will be provided.
4. The supply line should be connected to the lower connection on the leaving air side for counterflow operation.
5. Coils will vent and drain through factory-installed vent and drain fittings when mounted level for horizontal flow.
6. Connection location other than standard could affect vent and drain locations. Consult factory.

Options

Casing type: Flanged
 Fluid: Water
 Vent/Drain: .50 FPT on Face

Materials of Construction

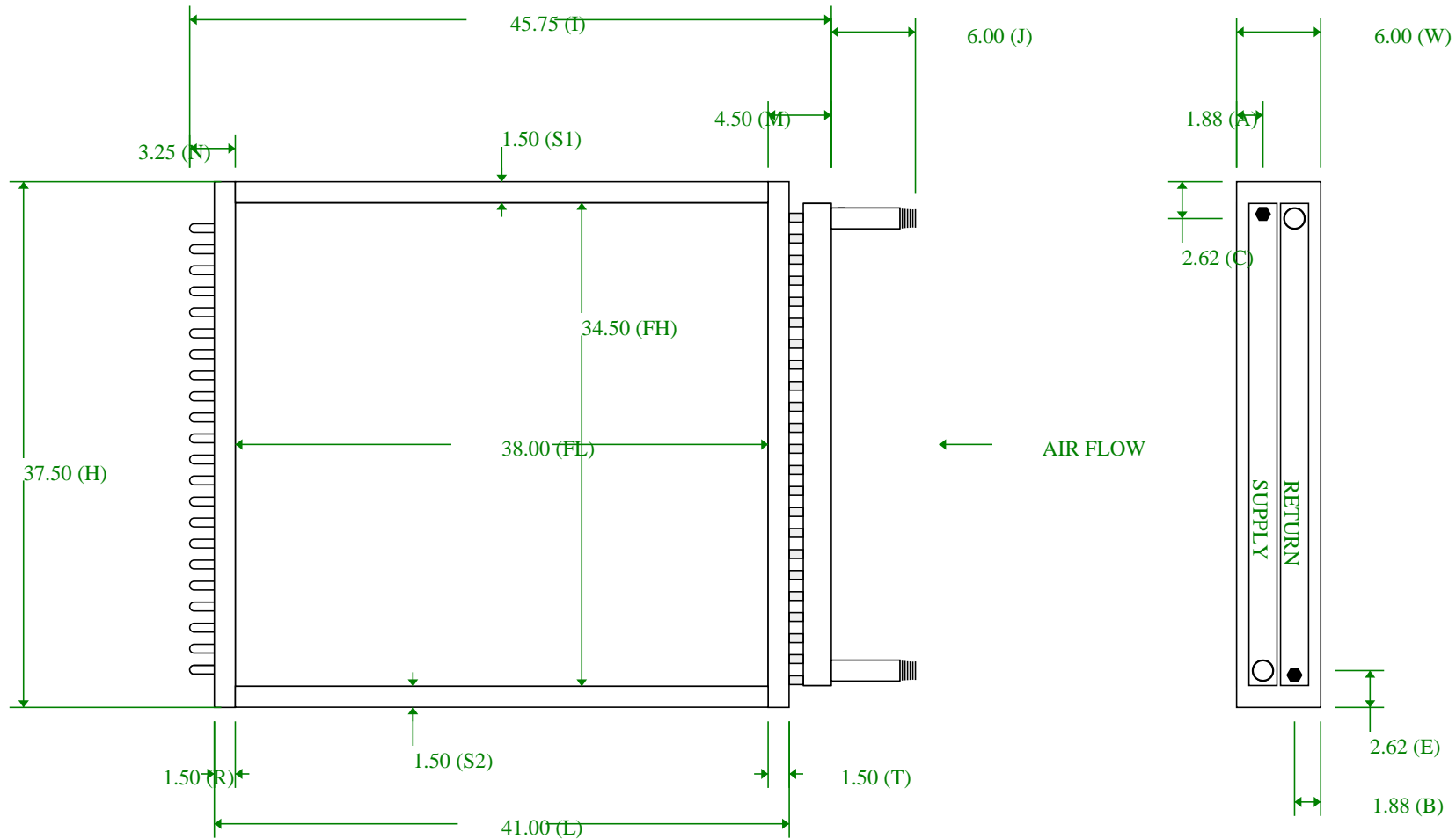
Tube [in]: 5/8 x 0.035 Copper
 Fin [in]: 11 FPI, 0.0095 Aluminum
 Rows: 1
 Casing material: Galvanized Steel
 Hand: Right
 Conn. material: Carbon Steel
 Conn. type: MPT
 Conn. qty: 1
 Conn. size [in]: 1.50 Same End
 Weight [lbs]: 137.9



Heatcraft® heat transfer coils



Date: 07-07-2023
Item: RHC-4905D
Quantity: 1
Model: 5MQ1101B - 46.5 x 60
Project: (116102) Eli Lilly - Building 4 Concord
Saved run:



General Notes

1. All dimensions are in inches.
2. Manually verifying dimensions is highly recommended.
3. The supply line should be connected to the lower connection on the leaving air side for counterflow operation.
4. Coils will vent and drain through factory-installed vent and drain fittings when mounted level for horizontal flow.
5. Connection location other than standard could affect vent and drain locations. Consult factory.

Options

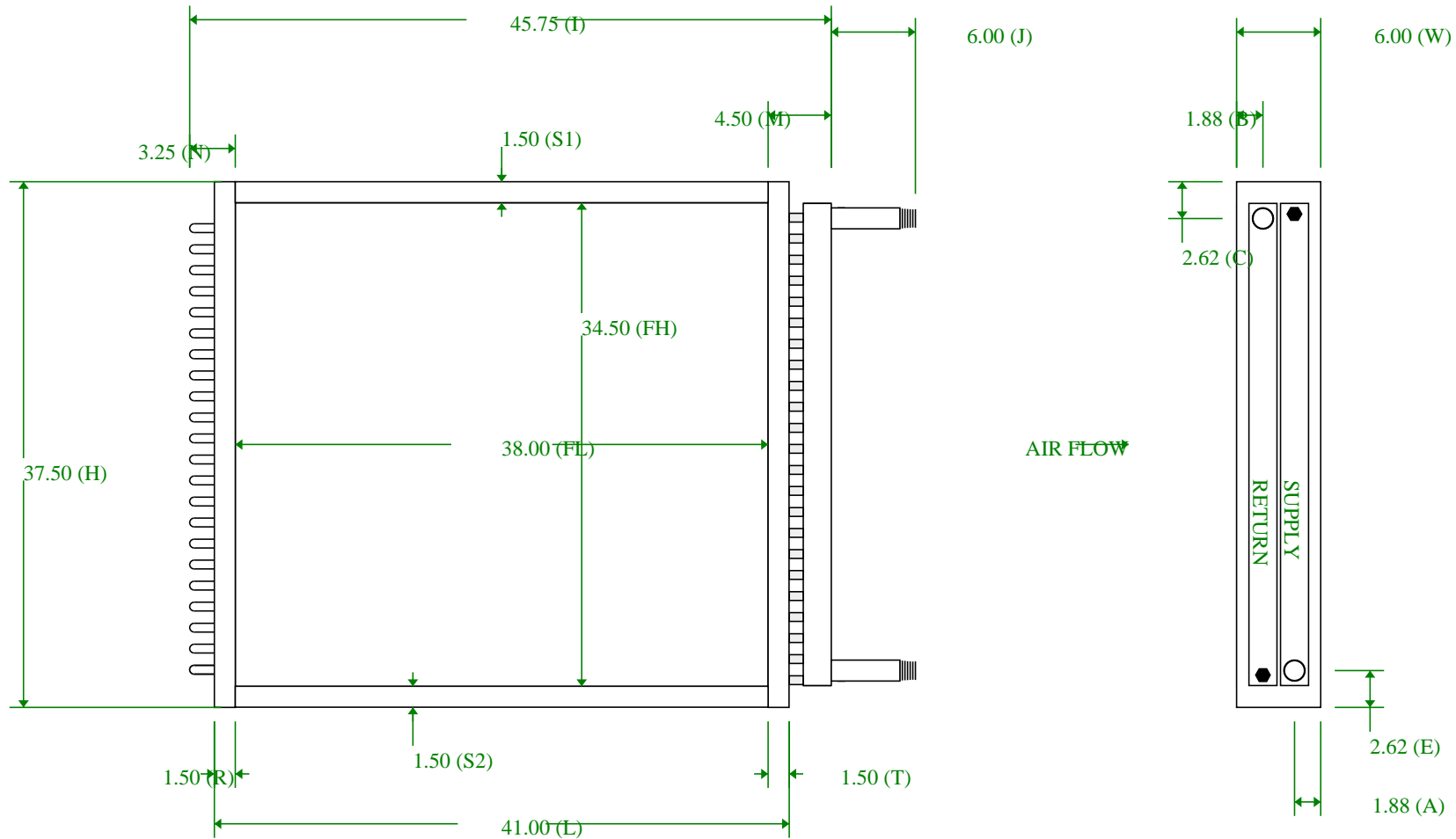
Casing type: Flanged
 Fluid: Water
 Vent/Drain: .50 FPT on Face

Materials of Construction

Tube [in]: 5/8 x 0.035 Copper
 Fin [in]: 11 FPI, 0.0095 Aluminum
 Rows: 1
 Casing material: Galvanized Steel
 Hand: Left
 Conn. material: Carbon Steel
 Conn. type: MPT
 Conn. qty: 1
 Conn. size [in]: 1.50 Same End
 Weight [lbs]: 79.92



Date: 07-07-2023
Item: RHC-4906A
Quantity: 1
Model: 5MI1101B - 34.5 x 38
Project: (116102) Eli Lilly - Building 4 Concord
Saved run:



General Notes

1. All dimensions are in inches.
2. Manually verifying dimensions is highly recommended.
3. The supply line should be connected to the lower connection on the leaving air side for counterflow operation.
4. Coils will vent and drain through factory-installed vent and drain fittings when mounted level for horizontal flow.
5. Connection location other than standard could affect vent and drain locations. Consult factory.

Options

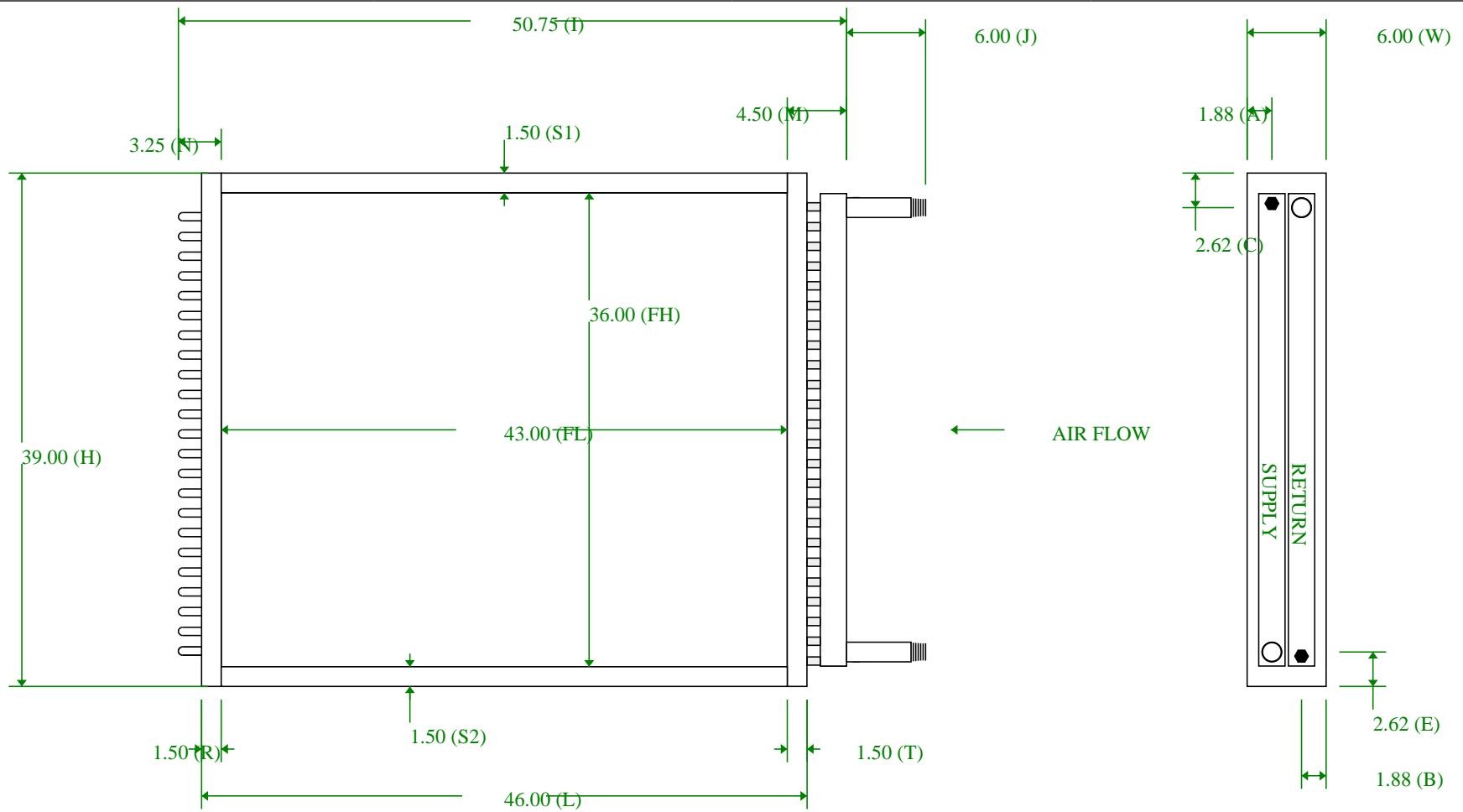
Casing type: Flanged
 Fluid: Water
 Vent/Drain: .50 FPT on Face

Materials of Construction

Tube [in]: 5/8 x 0.035 Copper
 Fin [in]: 11 FPI, 0.0095 Aluminum
 Rows: 1
 Casing material: Galvanized Steel
 Hand: Right
 Conn. material: Carbon Steel
 Conn. type: MPT
 Conn. qty: 1
 Conn. size [in]: 1.50 Same End
 Weight [lbs]: 79.92



Date: 07-07-2023
Item: RHC-4906B
Quantity: 1
Model: 5MI1101B - 34.5 x 38
Project: (116102) Eli Lilly - Building 4 Concord
Saved run:



General Notes

1. All dimensions are in inches.
2. Manually verifying dimensions is highly recommended.
3. The supply line should be connected to the lower connection on the leaving air side for counterflow operation.
4. Coils will vent and drain through factory-installed vent and drain fittings when mounted level for horizontal flow.
5. Connection location other than standard could affect vent and drain locations. Consult factory.

Options

Casing type: Flanged
 Fluid: Water
 Vent/Drain: .50 FPT on Face

Materials of Construction

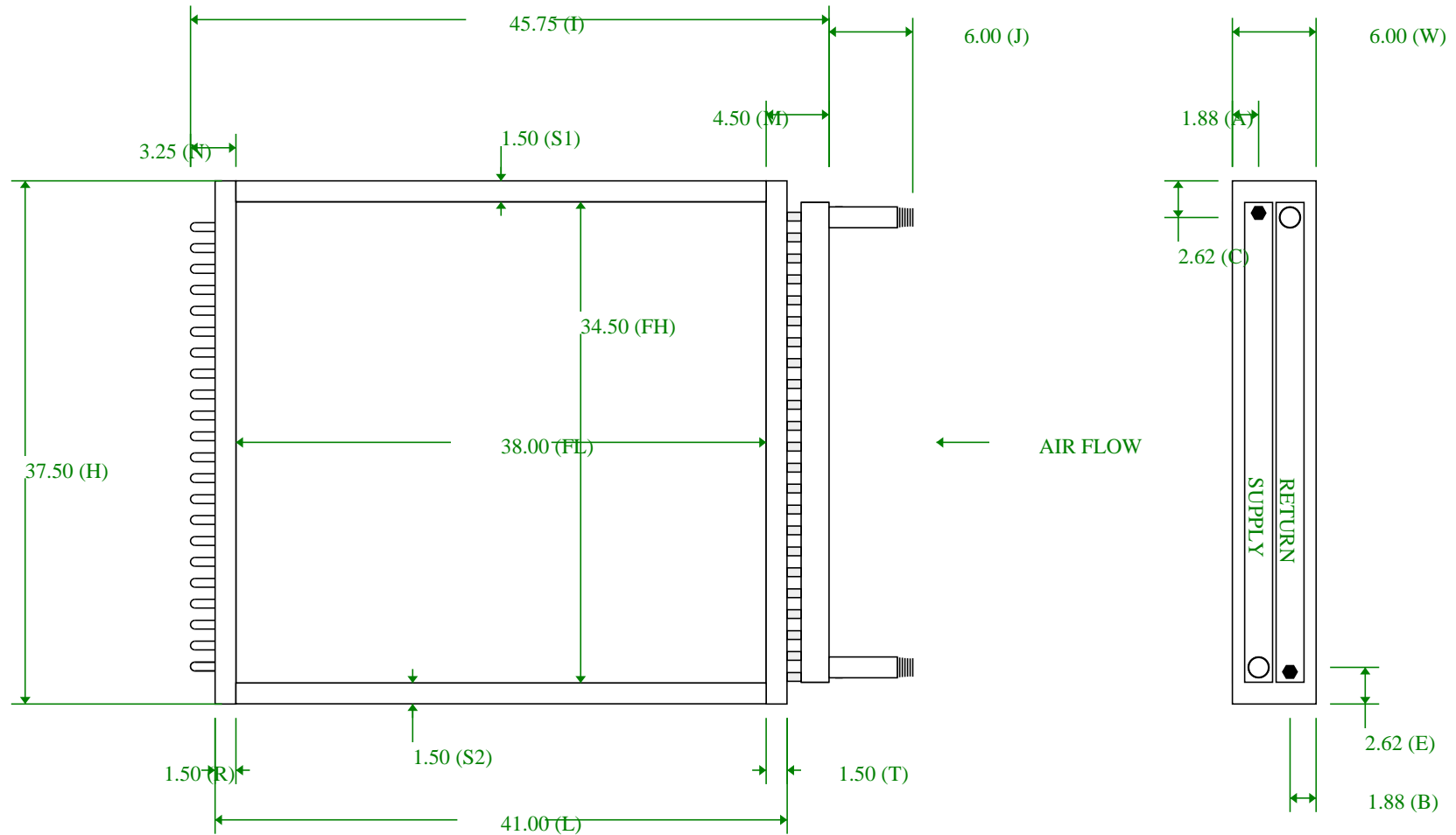
Tube [in]: 5/8 x 0.035 Copper
 Fin [in]: 11 FPI, 0.0095 Aluminum
 Rows: 1
 Casing material: Galvanized Steel
 Hand: Left
 Conn. material: Carbon Steel
 Conn. type: MPT
 Conn. qty: 1
 Conn. size [in]: 1.50 Same End
 Weight [lbs]: 89.42



Heatcraft® heat transfer coils



Date: 07-07-2023
Item: RHC-4906C
Quantity: 1
Model: 5MQ1101B - 36 x 43
Project: (116102) Eli Lilly - Building 4 Concord
Saved run:



General Notes

1. All dimensions are in inches.
2. Manually verifying dimensions is highly recommended.
3. The supply line should be connected to the lower connection on the leaving air side for counterflow operation.
4. Coils will vent and drain through factory-installed vent and drain fittings when mounted level for horizontal flow.
5. Connection location other than standard could affect vent and drain locations. Consult factory.

Options

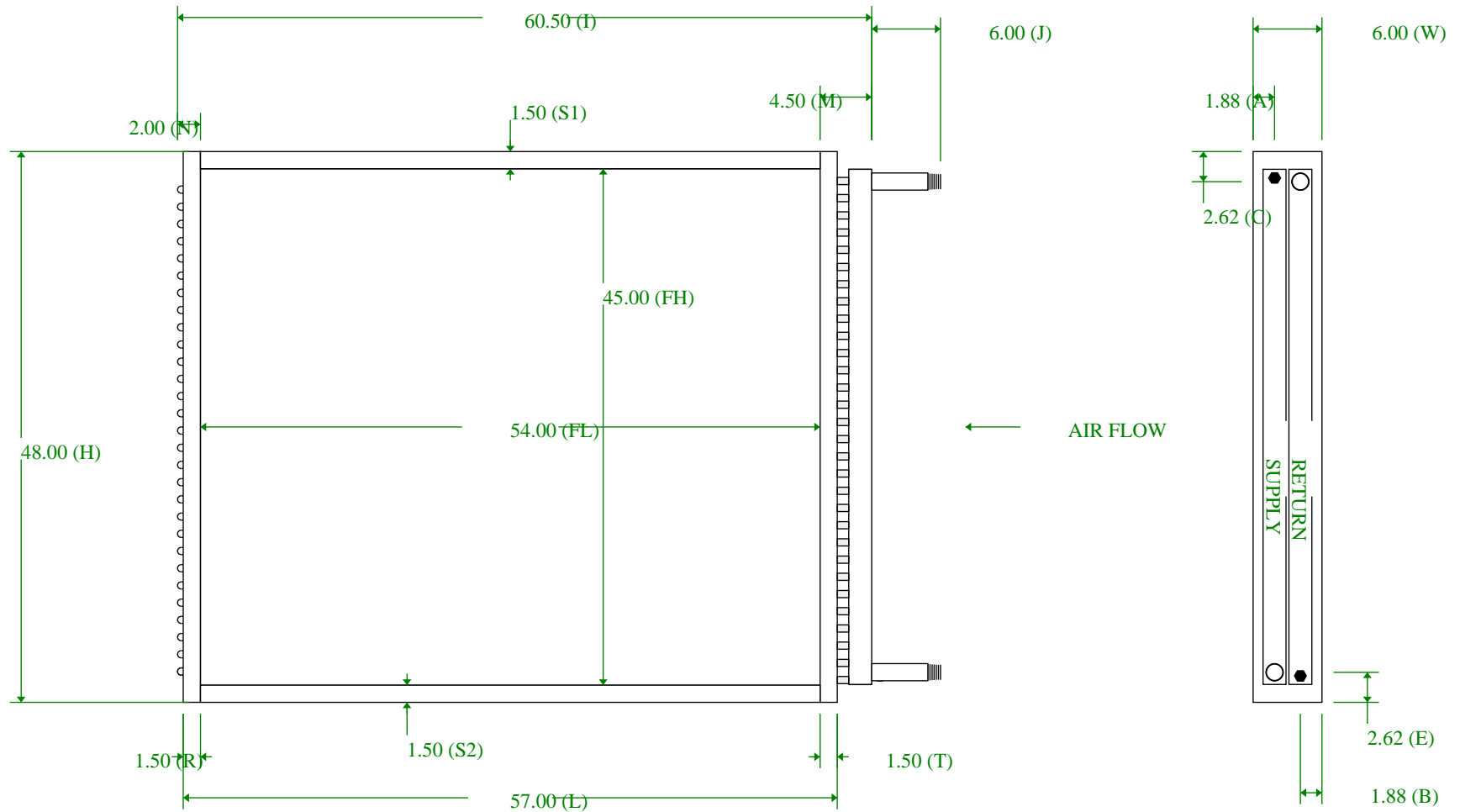
Casing type: Flanged
 Fluid: Water
 Vent/Drain: .50 FPT on Face

Materials of Construction

Tube [in]: 5/8 x 0.035 Copper
 Fin [in]: 11 FPI, 0.0095 Aluminum
 Rows: 1
 Casing material: Galvanized Steel
 Hand: Left
 Conn. material: Carbon Steel
 Conn. type: MPT
 Conn. qty: 1
 Conn. size [in]: 1.50 Same End
 Weight [lbs]: 79.92



Date: 07-07-2023
Item: RHC-4906D
Quantity: 1
Model: 5MI1101B - 34.5 x 38
Project: (116102) Eli Lilly - Building 4 Concord
Saved run:



General Notes

1. All dimensions are in inches.
2. Manually verifying dimensions is highly recommended.
3. One intermediate tube support fabricated from stock of the same material as the casing will be provided.
4. The supply line should be connected to the lower connection on the leaving air side for counterflow operation.
5. Coils will vent and drain through factory-installed vent and drain fittings when mounted level for horizontal flow.
6. Connection location other than standard could affect vent and drain locations. Consult factory.

Options

Casing type: Flanged
 Fluid: Water
 Vent/Drain: .50 FPT on Face

Materials of Construction

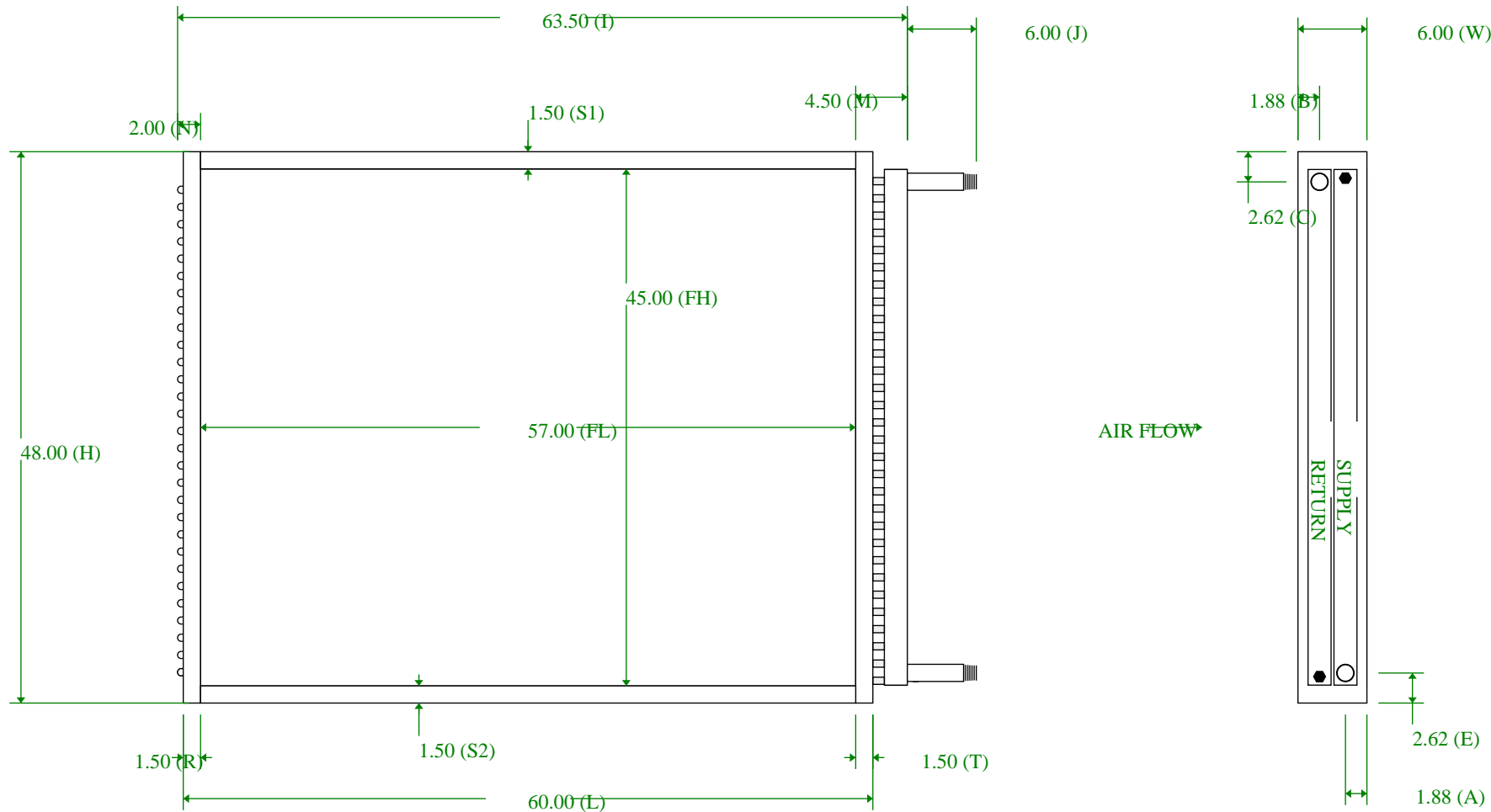
Tube [in]: 5/8 x 0.035 Copper
 Fin [in]: 11 FPI, 0.0095 Aluminum
 Rows: 1
 Casing material: Galvanized Steel
 Hand: Left
 Conn. material: Carbon Steel
 Conn. type: MPT
 Conn. qty: 1
 Conn. size [in]: 1.50 Same End
 Weight [lbs]: 124.8



Heatcraft heat transfer coils



Date: 07-07-2023
Item: RHC-4910A
Quantity: 1
Model: 5MQ1101B - 45 x 54
Project: (116102) Eli Lilly - Building 4 Concord
Saved run:



General Notes

1. All dimensions are in inches.
2. Manually verifying dimensions is highly recommended.
3. One intermediate tube support fabricated from stock of the same material as the casing will be provided.
4. The supply line should be connected to the lower connection on the leaving air side for counterflow operation.
5. Coils will vent and drain through factory-installed vent and drain fittings when mounted level for horizontal flow.
6. Connection location other than standard could affect vent and drain locations. Consult factory.

Options

Casing type: Flanged
 Fluid: Water
 Vent/Drain: .50 FPT on Face

Materials of Construction

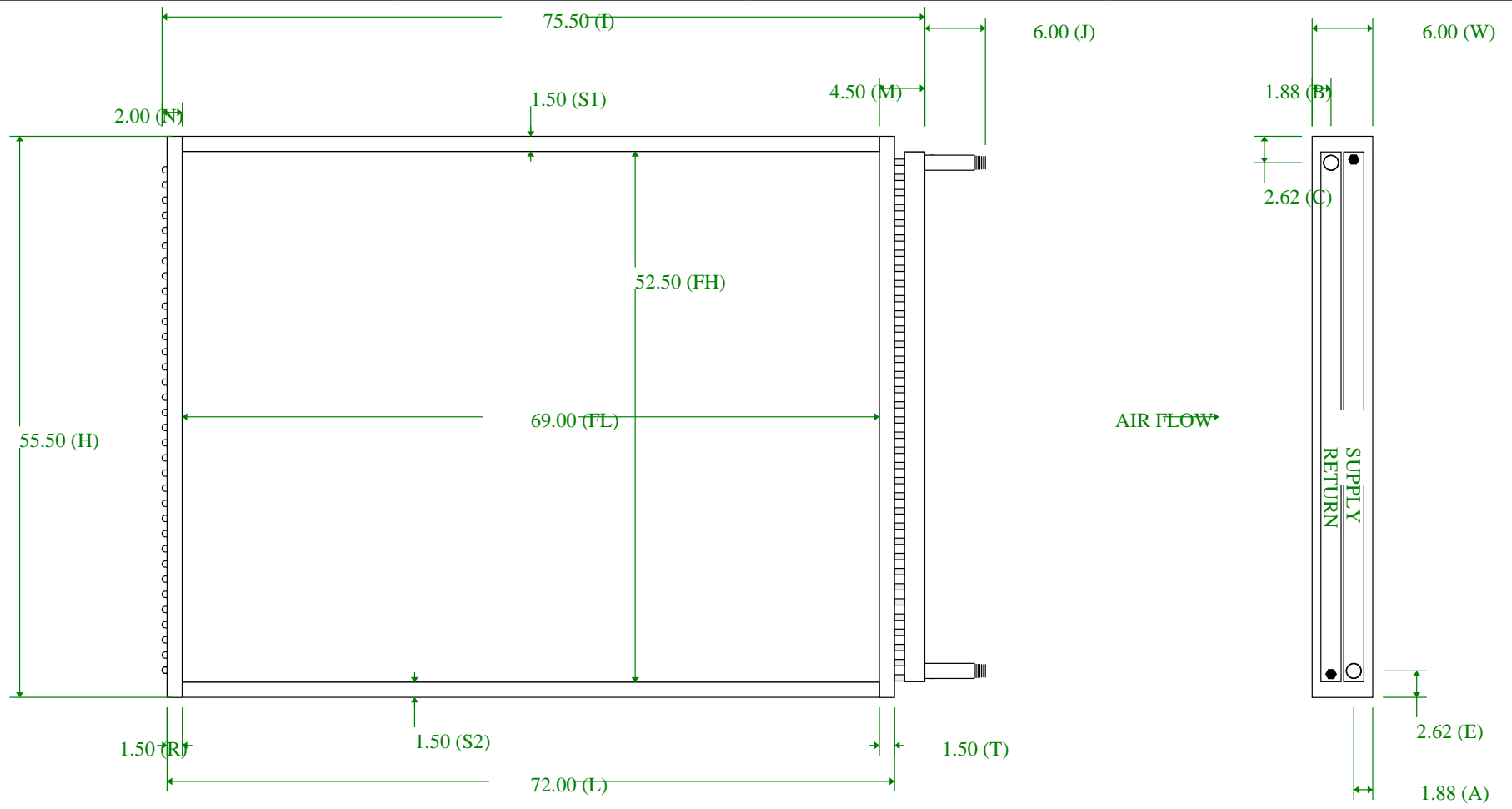
Tube [in]: 5/8 x 0.035 Copper
 Fin [in]: 11 FPI, 0.0095 Aluminum
 Rows: 1
 Casing material: Galvanized Steel
 Hand: Right
 Conn. material: Carbon Steel
 Conn. type: MPT
 Conn. qty: 1
 Conn. size [in]: 1.50 Same End
 Weight [lbs]: 129.5



Heatcraft® heat transfer coils



Date: 07-07-2023
Item: RHC-4910B
Quantity: 1
Model: 5MQ1101B - 45 x 57
Project: (116102) Eli Lilly - Building 4 Concord
Saved run:



General Notes

1. All dimensions are in inches.
2. Manually verifying dimensions is highly recommended.
3. One intermediate tube support fabricated from stock of the same material as the casing will be provided.
4. The supply line should be connected to the lower connection on the leaving air side for counterflow operation.
5. Coils will vent and drain through factory-installed vent and drain fittings when mounted level for horizontal flow.
6. Connection location other than standard could affect vent and drain locations. Consult factory.

Options

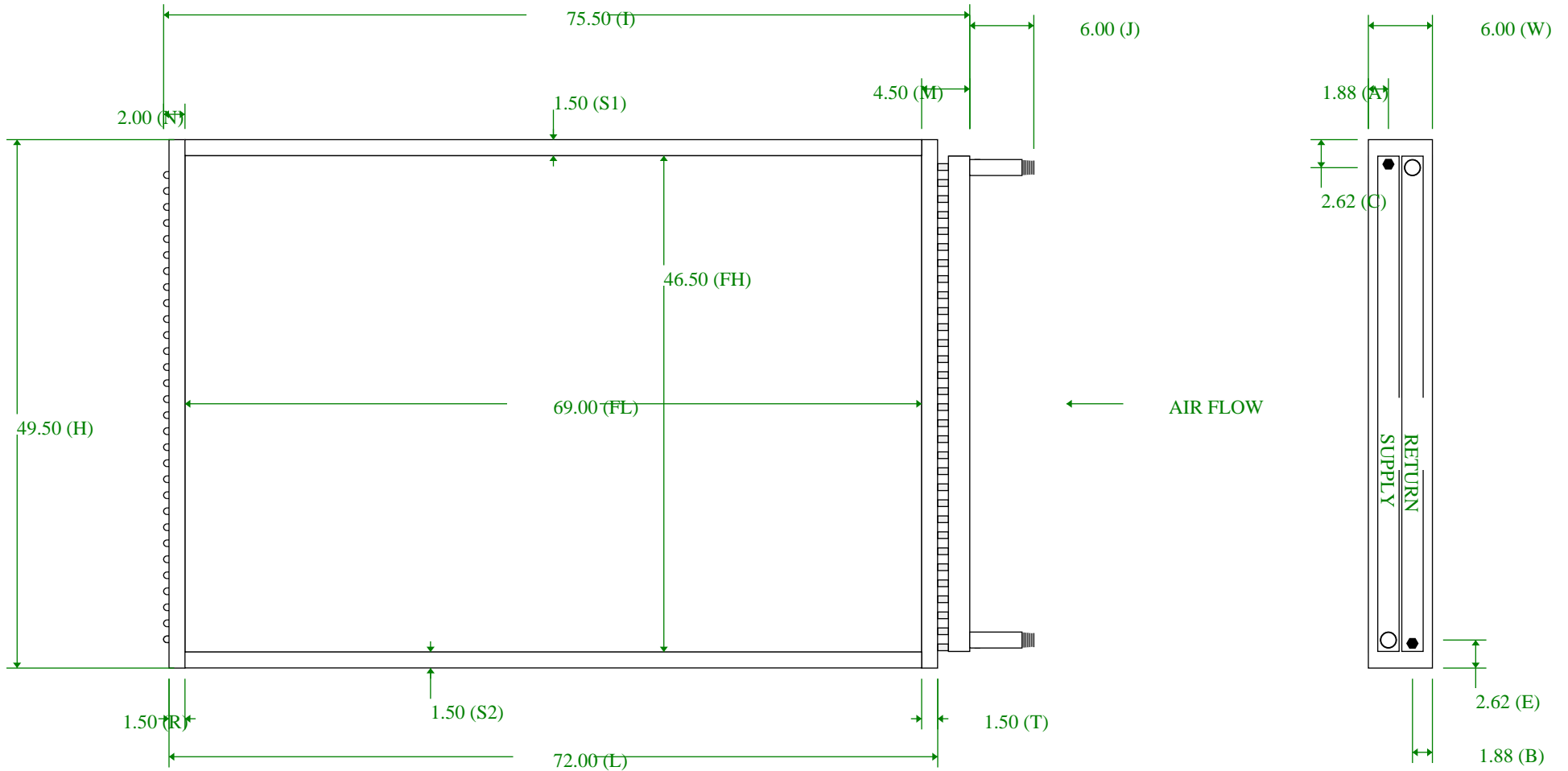
Casing type: Flanged
 Fluid: Water
 Vent/Drain: .50 FPT on Face

Materials of Construction

Tube [in]: 5/8 x 0.035 Copper
 Fin [in]: 10 FPI, 0.0095 Aluminum
 Rows: 1
 Casing material: Galvanized Steel
 Hand: Right
 Conn. material: Carbon Steel
 Conn. type: MPT
 Conn. qty: 1
 Conn. size [in]: 1.50 Same End
 Weight [lbs]: 165.0



Date: 07-07-2023
Item: RHC-4910C
Quantity: 1
Model: 5MQ1001B - 52.5 x 69
Project: (116102) Eli Lilly - Building 4 Concord
Saved run:



General Notes

1. All dimensions are in inches.
2. Manually verifying dimensions is highly recommended.
3. One intermediate tube support fabricated from stock of the same material as the casing will be provided.
4. The supply line should be connected to the lower connection on the leaving air side for counterflow operation.
5. Coils will vent and drain through factory-installed vent and drain fittings when mounted level for horizontal flow.
6. Connection location other than standard could affect vent and drain locations. Consult factory.

Options

Casing type: Flanged
 Fluid: Water
 Vent/Drain: .50 FPT on Face

Materials of Construction

Tube [in]: 5/8 x 0.035 Copper
 Fin [in]: 10 FPI, 0.0095 Aluminum
 Rows: 1
 Casing material: Galvanized Steel
 Hand: Left
 Conn. material: Carbon Steel
 Conn. type: MPT
 Conn. qty: 1
 Conn. size [in]: 1.50 Same End
 Weight [lbs]: 149.2



Date: 07-07-2023
Item: RHC-4910D
Quantity: 1
Model: 5MQ1001B - 46.5 x 69
Project: (116102) Eli Lilly - Building 4 Concord
Saved run:



**HIPP
DESIGN +
CONSULTING**

SHOP DRAWING / SUBMITTAL ACTION TICKET

CLIENT NAME	Eli Lilly
CONSTRUCTION MANAGER	BE&K
PROJECT NAME	Project Concord DAP
PROJECT NUMBER	G22131

SUBMITTAL NUMBER: #078		SUBMITTAL TITLE: Duct Mounted Reheat Coils - For Record	
CONTRACTOR / VENDOR: Kirlin-Way Mechanical		DATE RECEIVED: 02MAY2023	
RECEIVED BY: NR		DATE DUE: 15MAY2023	
DISPOSITION: <input type="checkbox"/> NO EXCEPTION TAKEN <input checked="" type="checkbox"/> APPROVED AS NOTED <input type="checkbox"/> REVISE AND RESUBMIT <input type="checkbox"/> REJECTED, RESUBMIT <input type="checkbox"/> NOT REVIEWED		DISTRIBUTION: <input type="checkbox"/> CIVIL _____ <input type="checkbox"/> ARCHITECTURAL _____ <input type="checkbox"/> STRUCTURAL _____ <input checked="" type="checkbox"/> MECHANICAL <u>A. Anderson</u> <input type="checkbox"/> PROCESS _____ <input type="checkbox"/> ELECTRICAL _____ <input type="checkbox"/> INST & CONT. _____ <input checked="" type="checkbox"/> PROJ. LEADER <u>A. Stone</u> <input type="checkbox"/> OTHER _____	

Checking is only for general conformance with the design concept of the project and general compliance with the information given in the contract documents. Any action shown is subject to the requirements of the plans and specifications. Contractor is responsible for dimensions which shall be confirmed and correlated at the job site; fabrication processes and techniques of construction, coordination of his work with that of all other trades, and the satisfactory performance of his work.

REMARKS:

HVAC:
 1) RHC 4910B should be 12,385 CFM. Face area of coil will work with corrected CFM and required velocity limits. Correct the CFM and required GPM to maintain desired air side temperature rise and resubmit for record.
 2) All altitudes are still listed as 300 ft as in previous submittal please correct to 700 ft for all.

Project Leader:
 Provide updated submittal for record.

Adam J. Anderson, P.E.

 PRIMARY DISCIPLINE LEAD

Mechanical

 DISCIPLINE

09MAY2023

 DATE



KIRLIN-WAY MECH PROJECT NAME: Eli-Lilly Concord

KIRLIN WAY MECH
SUBMITTAL NO: 05

SUBMITTAL DATA

ARCHITECT: Hansbury
223 S. Wilmington Street, Suite 200
Raleigh, NC 27601

Submittal Date: 4/27/23

ENGINEER: HIPP Design & Consulting
2301 Rexwoods Dr. #200
Raleigh, NC 27607

GENERAL CONTRACTOR: BE&K
SUBCONTRACTOR: Kirlin-Way

Specification Section:

Description: Reheat Coil Rev.3

Vendor / Supplier: Hoffman & Hoffman

Manufacturer: Heatcraft

Clarifications: Final Submittal for Record

Deviations:

Substitutions:

Submittal Prepared By: Jason Brindle
Phone: 704-785-6853
Email: Jbrindle@kirlinway.com

LOCATION: Raleigh, NC

DATE: 1/05/23

SALESMAN: Bennett Funderburk **ORDER #** 620.621.1315

PROJECT: *ELI LILLY Project Concord*

ENGINEER: *HIPP*

CONTRACTOR: *Kirlin Way Mechanical*

PRODUCT(S): *Reheat Coils Buildings 4 & 6, Rev.3*

MANUFACTURER(S): *Modine Heatcraft*



SUBMITTAL DATA

APPROVAL REQUIRED

HOFFMAN • HOFFMAN, INC.

HVAC Manufacturers Representative

Website: www.hoffman-hoffman.com

Asheville, NC	(828) 296-0111	Charleston, SC	(843) 884-3201
Charlotte, NC	(704) 364-4700	Columbia, SC	(803) 765-9360
Raleigh, NC	(919) 781-8011	Greenville, SC	(864) 676-1888
Wilmington, NC	(910) 791-4775	Chesapeake, VA	(757) 548-1700
Chattanooga, TN	(423) 693-2890	Richmond, VA	(804) 272-1500
Knoxville, TN	(865) 540-9770	Roanoke, VA	(540) 725-8701

Corporate: Greensboro, NC (336) 292-8777

We have exercised care in the preparation of this submittal. We believe it satisfies our interpretation of the designer's intent and scope. It contains the list of materials, quantities, sizes, style and the finish as we propose to furnish for this job. Please examine and check carefully that all items are exactly as required and that our interpretation of the applicable plans and/or specifications are consistent with the design. **Approval by the engineer and purchaser will be required before release of this equipment for production.** If any discrepancies are discovered, please notify us as soon as possible.

COILCALC FLUID SCHEDULE

Customer
Contact
Telephone
Email
Project (116102) Eli Lilly - Building 4 Concord
Savedrun 2654690

Date 1/5/2023 4:48:42 PM
By Bennett Funderburk
Company Hoffman & Hoffman, Inc.
Return telephone 9197818011
Email bennett.funderburk@hoffman-hoffman.com

Item	Model	Coils in bank	Face area [ft²]	Air flow [CFM]	Face vel [ft/min]	EAT db/wb [°F]	LAT db/wb [°F]	Capacity tot/sens [MBH]	APD [in wg]	Fluid	Fluid temp ent/lvg [°F]	Fluid pd [ft H2O]	Fluid vel [ft/s]	Fluid flow [gpm]
RHC-4901A,B,D; RHC-4902B; RHC-4904B,C;	5MQ1101B - 45.00 x													
RHC-4905B	50.00	1	15.63	10,740	687.4	46.00 / N/A	66.99 / N/A	244.5/244.5	0.2193	Water	130.0/108.9	3.282	3.533	23.50
	5MQ1001C - 45.00 x													
RHC-4901C	55.00	1	17.19	12,000	698.2	46.00 / N/A	66.74 / N/A	270.0/270.0	0.2891	Water	130.0/109.0	4.082	3.909	26.00
	5MQ1001B - 46.50 x													
RHC-4902A	60.00	1	19.38	13,500	696.8	46.00 / N/A	66.04 / N/A	293.3/293.3	0.2117	Water	130.0/110.7	4.975	4.116	30.80
	5MQ1001C - 34.50 x													
RHC-4902C	44.00	1	10.54	7,230	685.8	46.00 / N/A	66.02 / N/A	157.0/157.0	0.2797	Water	130.0/109.8	1.831	2.698	15.70
	5MQ1001C - 48.00 x													
RHC-4902D	56.50	1	18.83	12,810	680.2	46.00 / N/A	67.11 / N/A	293.3/293.3	0.2754	Water	130.0/108.6	5.218	4.165	27.70
	5MI1101B - 33.00 x													
RHC-4903A,B,D	36.00	1	8.250	5,660	686.1	46.00 / N/A	67.10 / N/A	129.5/129.5	0.2186	Water	130.0/108.7	3.571	3.699	12.30
	5MQ1101B - 45.00 x													
RHC-4903C	53.00	1	16.56	11,580	699.2	46.00 / N/A	66.95 / N/A	263.1/263.1	0.2255	Water	130.0/108.8	3.778	3.774	25.10
	5MQ1101B - 43.50 x													
RHC-4904A	45.00	1	13.59	9,200	676.8	46.00 / N/A	66.62 / N/A	205.7/205.7	0.2138	Water	130.0/108.8	2.300	2.947	19.60
	5MQ1101B - 46.50 x													
RHC-4904D	61.00	1	19.70	13,740	697.5	46.00 / N/A	67.08 / N/A	314.1/314.1	0.2246	Water	130.0/108.6	4.680	3.969	29.70
	5MQ1101B - 46.50 x													
RHC-4905A	62.00	1	20.02	13,980	698.3	46.00 / N/A	67.10 / N/A	319.9/319.9	0.2250	Water	130.0/108.6	4.855	4.036	30.20
	5MQ1101B - 40.50 x													
RHC-4905C	43.00	1	12.09	8,460	699.5	46.00 / N/A	66.16 / N/A	184.9/184.9	0.2257	Water	130.0/109.6	1.995	2.751	18.30
	5MQ1101B - 46.50 x													
RHC-4905D	60.00	1	19.38	13,540	698.8	46.00 / N/A	67.03 / N/A	308.8/308.8	0.2253	Water	130.0/108.7	4.538	3.916	29.30
	5MI1101B - 34.50 x													
RHC-4906A,B	38.00	1	9.104	6,320	694.2	46.00 / N/A	67.29 / N/A	145.9/145.9	0.2229	Water	130.0/108.8	4.658	4.180	13.90
RHC-4906D	5MI1101B - 34.50 x	1	9.104	6,320	694.2	46.00 / N/A	67.29 / N/A	145.9/145.9	0.2229	Water	130.0/108.8	4.658	4.180	13.90

COILCALC FLUID SCHEDULE

Item	Model	Coils in bank	Face area [ft²]	Air flow [CFM]	Face vel [ft/min]	EAT db/wb [°F]	LAT db/wb [°F]	Capacity tot/sens [MBH]	APD [in wg]	Fluid	Fluid temp ent/lvg [°F]	Fluid pd [ft H2O]	Fluid vel [ft/s]	Fluid flow [gpm]
	38.00													
RHC-4906C	5MQ1101B - 36.00 x 43.00	1	10.75	7,320	680.9	46.00 / N/A	67.48 / N/A	170.5/170.5	0.2159	Water	130.0/110.8	3.244	3.608	18.00
RHC-4101A	5MI1201B - 21.00 x 24.00	1	3.500	2,100	600.0	46.00 / N/A	71.06 / N/A	57.07/57.07	0.1855	Water	130.0/112.2	3.648	3.909	6.500
RHC-4101B	5MI1201C - 24.00 x 26.00	1	4.333	2,700	623.1	46.00 / N/A	71.16 / N/A	73.67/73.67	0.3091	Water	130.0/112.5	2.627	3.408	8.500
RHC-4101C	3MQ0602C - 12.00 x 13.00	1	1.083	700.0	646.2	46.00 / N/A	72.87 / N/A	20.40/20.40	0.2423	Water	130.0/108.3	2.397	2.342	1.900
RHC-4102, 4108, 4114, 4202, 4208	3MQ0902B - 7.000 x 6.000	1	0.2917	200.0	685.7	46.00 / N/A	71.15 / N/A	5.454/5.454	0.2601	Water	130.0/111.6	0.5058	1.109	0.6000
RHC-4103, 4118, 4203	3MI0602C - 10.00 x 10.00	1	0.6944	450.0	648.0	46.00 / N/A	73.12 / N/A	13.24/13.24	0.2435	Water	130.0/109.4	3.193	2.404	1.300
RHC-4107, 4122A, 4212, 4207	3MQ0802B - 12.00 x 14.00	1	1.167	800.0	685.7	46.00 / N/A	72.39 / N/A	22.90/22.90	0.2402	Water	130.0/108.9	3.185	2.712	2.200
RHC-4110, 4210	3MQ0602C - 8.000 x 10.00	1	0.5556	350.0	630.0	46.00 / N/A	72.66 / N/A	10.12/10.12	0.2320	Water	130.0/109.5	1.451	1.849	1.000
RHC-4120F, 4123F	3MQ0602C - 10.00 x 8.000	1	0.5556	350.0	630.0	46.00 / N/A	71.27 / N/A	9.591/9.591	0.2320	Water	130.0/110.6	0.6262	1.233	1.000
RHC-4112, 4120B	5MI0702B - 24.00 x 24.00	1	4.000	2,500	625.0	46.00 / N/A	71.87 / N/A	70.13/70.13	0.2555	Water	130.0/109.1	2.956	2.726	6.800
RHC-4113B, 4122B	5MI0802A - 18.00 x 24.00	1	3.000	2,000	666.7	46.00 / N/A	71.89 / N/A	56.15/56.15	0.1848	Water	130.0/109.0	4.305	3.247	5.400
RHC-4113C	5MI0802A - 18.00 x 21.00	1	2.625	1,800	685.7	46.00 / N/A	71.44 / N/A	49.65/49.65	0.1937	Water	130.0/109.5	3.419	2.947	4.900
RHC-4121, 4213B	5MI0902A - 15.00 x 16.00	1	1.667	1,100	660.0	46.00 / N/A	72.38 / N/A	31.47/31.47	0.1993	Water	130.0/108.8	1.211	1.804	3.000
RHC-4123B	5MI0702B - 24.00 x 24.00	1	4.000	2,450	612.5	46.00 / N/A	72.06 / N/A	69.23/69.23	0.2467	Water	130.0/109.1	2.880	2.686	6.700
RHC-4211B	5MI0802A - 18.00 x 24.00	1	3.000	2,100	700.0	46.00 / N/A	71.51 / N/A	58.09/58.09	0.2006	Water	130.0/109.4	4.736	3.428	5.700
RHC-4211C	5MI0802A - 24.00 x 24.00	1	4.000	2,700	675.0	46.00 / N/A	71.56 / N/A	74.85/74.85	0.1887	Water	130.0/109.3	3.352	2.927	7.300
RHC-4113A	3MI0702B - 10.00 x 12.00	1	0.8333	500.0	600.0	46.00 / N/A	72.02 / N/A	14.11/14.11	0.1749	Water	130.0/109.6	3.824	2.588	1.400
RHC-4117	3MI0702B - 10.00 x 13.00	1	0.9028	600.0	664.6	46.00 / N/A	71.31 / N/A	16.47/16.47	0.2087	Water	130.0/110.4	5.503	3.143	1.700

COILCALC FLUID SCHEDULE

Item	Model	Coils in bank	Face area [ft²]	Air flow [CFM]	Face vel [ft/min]	EAT db/wb [°F]	LAT db/wb [°F]	Capacity tot/sens [MBH]	APD [in wg]	Fluid	Fluid temp ent/lvg [°F]	Fluid pd [ft H2O]	Fluid vel [ft/s]	Fluid flow [gpm]
RHC-4124	3MI0702B - 12.00 x 13.00	1	1.083	700.0	646.2	46.00 / N/A	71.69 / N/A	19.50/19.50	0.1988	Water	130.0/109.2	7.107	3.513	1.900
RHC-4115	3MQ0602C - 8.000 x 8.000	1	0.4444	250.0	562.5	46.00 / N/A	72.73 / N/A	7.248/7.248	0.1912	Water	130.0/109.1	0.7281	1.294	0.7000
RHC-4211A	3MI1201C - 14.00 x 14.00	1	1.361	850.0	624.5	46.00 / N/A	71.14 / N/A	23.18/23.18	0.1824	Water	130.0/109.6	5.793	4.252	2.300
RHC-4213A	3MQ0702B - 8.000 x 12.00	1	0.6667	400.0	600.0	46.00 / N/A	71.41 / N/A	11.02/11.02	0.1749	Water	130.0/109.7	1.815	2.034	1.100
RHC-4910A	5MQ1101B - 45.00 x 54.00	1	16.88	11,695	693.0	46.00 / N/A	67.05 / N/A	267.0/267.0	0.2223	Water	130.0/108.7	3.858	3.804	25.30
RHC-4910B	5MQ1101B - 45.00 x 57.00	1	17.81	12,345	693.1	46.00 / N/A	67.17 / N/A	283.4/283.4	0.2223	Water	130.0/108.5	4.341	4.014	26.70
RHC-4910C	5MQ1001B - 52.50 x 69.00	1	25.16	17,490	695.3	46.00 / N/A	66.07 / N/A	380.7/380.7	0.2110	Water	130.0/109.5	6.606	4.522	37.60
RHC-4910D	5MQ1001B - 46.50 x 69.00	1	22.28	15,110	678.1	46.00 / N/A	66.26 / N/A	332.0/332.0	0.2024	Water	130.0/109.5	5.842	4.370	32.70

This should be 12,385 CFM

COILCALC FLUID VERIFICATION

Customer		Date	1/5/2023 4:48:37 PM
Contact		By	Bennett Funderburk
Telephone		Company	Hoffman & Hoffman, Inc.
Email		Return telephone	9197818011
Project	(116102) Eli Lilly - Building 4 Concord	Email	bennett.funderburk@hoffman-hoffman.com
Savedrun	2654690		

Item/Description RHC-4901A,B,D; RHC-4902B; RHC-4904B,C; RHC-4905B

CONSTRUCTION DATA

Model	5MQ1101B - 45 x 50	Connection material	Carbon Steel
Coils per bank	1	Connection type	MPT
Coil duty	Heat-Return Bend	Connection rotation	None
Tube OD [in]	5/8	Connection size [in]	1.50
Fin spacing [in/]	11.00	Connection qty	1
Rows	1	Connection end	Same End
Fin surface	B		
Fin height x length [in]	45.00 x 50.00		
Circuiting	Quarter		
Tube material [in]	0.035 Copper		
Fin material [in]	0.0095 Aluminum		

THERMODYNAMIC

AIR SIDE

Face velocity (Standard)	[ft/min]	687.4
Air flow (Standard)	[cfm]	10,740
Altitude	[ft]	300.0
EAT db	[°F]	46.00
Fin fouling factor		0

FLUID SIDE

Fluid	Water
Fouling factor	0
Entering fluid temp.	[°F] 130.0
Fluid flow	[gpm] 23.50

OPTIONS/SPECIALTIES

Item quantity	7
Casing material	Galvanized Steel
Casing type	Flanged
Coating	None
Hand	Right
Vent / Drain	.50 FPT on Face

All altitudes are still at 300 ft as in previous submittal

RESULTS

CONSTRUCTION

Weight	[lbs]	118.6
Weight with fluid	[lbs]	143.7
Face area	[ft²]	15.63

AIR SIDE

Total / Sensible capacity	[MBH]	244.5 / 244.5
LAT db	[°F]	66.99
Air pressure drop (Standard)	[in wg]	0.2193

FLUID SIDE

Fluid pressure drop	[ft H2O]	3.282
Fluid flow rate	[gpm]	23.50
Leaving fluid temp.	[°F]	108.9
Internal volume	[in³]	705.4
Tubeside velocity	[ft/s]	3.533

NOTES FROM CALCULATIONS

- A - Certified in accordance with the AHRI Forced-Circulation Air-Cooling and Air-Heating Coils Certification Program which is based on AHRI Standard 410 within the Range of Standard Rating Conditions listed in Table 1 of the Standard. Certified units may be found in the AHRI Directory at www.ahridirectory.org.
- K - Face and row spacing on 1.5 inch centers.
- L - Coil rating valid for Heatcraft coils only.

USER NOTES

COILCALC FLUID VERIFICATION

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Contact		By	Bennett Funderburk
Telephone		Company	Hoffman & Hoffman, Inc.
Email		Return telephone	9197818011
Project	(116102) Eli Lilly - Building 4 Concord	Email	bennett.funderburk@hoffman-hoffman.com
Savedrun	2654690		

Item/Description RHC-4901C

CONSTRUCTION DATA

Model	5MQ1001C - 45 x 55	Connection material	Carbon Steel
Coils per bank	1	Connection type	MPT
Coil duty	Heat-Return Bend	Connection rotation	None
Tube OD [in]	5/8	Connection size [in]	1.50
Fin spacing [in/]	10.00	Connection qty	1
Rows	1	Connection end	Same End
Fin surface	C		
Fin height x length [in]	45.00 x 55.00		
Circuiting	Quarter		
Tube material [in]	0.035 Copper		
Fin material [in]	0.0095 Aluminum		

THERMODYNAMIC

AIR SIDE			FLUID SIDE		
Face velocity (Standard)	[ft/min]	698.2	Fluid		Water
Air flow (Standard)	[cfm]	12,000	Fouling factor		0
Altitude	[ft]	300.0	Entering fluid temp.	[°F]	130.0
EAT db	[°F]	46.00	Fluid flow	[gpm]	26.00
Fin fouling factor		0			

OPTIONS/SPECIALTIES

Item quantity	1
Casing material	Galvanized Steel
Casing type	Flanged
Coating	None
Hand	Right
Vent / Drain	.50 FPT on Face

RESULTS

CONSTRUCTION			AIR SIDE		
Weight	[lbs]	123.9	Total / Sensible capacity	[MBH]	270.0 / 270.0
Weight with fluid	[lbs]	150.3	LAT db	[°F]	66.74
Face area	[ft²]	17.19	Air pressure drop (Standard)	[in wg]	0.2891
			FLUID SIDE		
			Fluid pressure drop	[ft H2O]	4.082
			Fluid flow rate	[gpm]	26.00
			Leaving fluid temp.	[°F]	109.0
			Internal volume	[in³]	737.5
			Tubeside velocity	[ft/s]	3.909

NOTES FROM CALCULATIONS

A - Certified in accordance with the AHRI Forced-Circulation Air-Cooling and Air-Heating Coils Certification Program which is based on AHRI Standard 410 within the Range of Standard Rating Conditions listed in Table 1 of the Standard. Certified units may be found in the AHRI Directory at www.ahridirectory.org.

K - Face and row spacing on 1.5 inch centers.

L - Coil rating valid for Heatcraft coils only.

USER NOTES

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Email		Return telephone	9197818011
Project	(116102) Eli Lilly - Building 4 Concord	Email	bennett.funderburk@hoffman-hoffman.com
Savedrun	2654690		

Item/Description RHC-4902A

CONSTRUCTION DATA

Model	5MQ1001B - 46.5 x 60	Connection material	Carbon Steel
Coils per bank	1	Connection type	MPT
Coil duty	Heat-Return Bend	Connection rotation	None
Tube OD [in]	5/8	Connection size [in]	1.50
Fin spacing [in/]	10.00	Connection qty	1
Rows	1	Connection end	Same End
Fin surface	B		
Fin height x length [in]	46.50 x 60.00		
Circuiting	Quarter		
Tube material [in]	0.035 Copper		
Fin material [in]	0.0095 Aluminum		

THERMODYNAMIC

AIR SIDE			FLUID SIDE		
Face velocity (Standard)	[ft/min]	696.8	Fluid		Water
Air flow (Standard)	[cfm]	13,500	Fouling factor		0
Altitude	[ft]	300.0	Entering fluid temp.	[°F]	130.0
EAT db	[°F]	46.00	Fluid flow	[gpm]	30.80
Fin fouling factor		0			

OPTIONS/SPECIALTIES

Item quantity	1
Casing material	Galvanized Steel
Casing type	Flanged
Coating	None
Hand	Right
Vent / Drain	.50 FPT on Face

RESULTS

CONSTRUCTION			AIR SIDE		
Weight	[lbs]	135.2	Total / Sensible capacity	[MBH]	293.3 / 293.3
Weight with fluid	[lbs]	164.1	LAT db	[°F]	66.04
Face area	[ft²]	19.38	Air pressure drop (Standard)	[in wg]	0.2117
			FLUID SIDE		
			Fluid pressure drop	[ft H2O]	4.975
			Fluid flow rate	[gpm]	30.80
			Leaving fluid temp.	[°F]	110.7
			Internal volume	[in³]	812.0
			Tubeside velocity	[ft/s]	4.116

NOTES FROM CALCULATIONS

A - Certified in accordance with the AHRI Forced-Circulation Air-Cooling and Air-Heating Coils Certification Program which is based on AHRI Standard 410 within the Range of Standard Rating Conditions listed in Table 1 of the Standard. Certified units may be found in the AHRI Directory at www.ahridirectory.org.

K - Face and row spacing on 1.5 inch centers.

L - Coil rating valid for Heatcraft coils only.

USER NOTES

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Email		Return telephone	9197818011
Project	(116102) Eli Lilly - Building 4 Concord	Email	bennett.funderburk@hoffman-hoffman.com
Savedrun	2654690		

Item/Description RHC-4902C

CONSTRUCTION DATA

Model	5MQ1001C - 34.5 x 44	Connection material	Carbon Steel
Coils per bank	1	Connection type	MPT
Coil duty	Heat-Return Bend	Connection rotation	None
Tube OD [in]	5/8	Connection size [in]	1.50
Fin spacing [in/]	10.00	Connection qty	1
Rows	1	Connection end	Same End
Fin surface	C		
Fin height x length [in]	34.50 x 44.00		
Circuiting	Quarter		
Tube material [in]	0.035 Copper		
Fin material [in]	0.0095 Aluminum		

THERMODYNAMIC

AIR SIDE			FLUID SIDE		
Face velocity (Standard)	[ft/min]	685.8	Fluid		Water
Air flow (Standard)	[cfm]	7,230	Fouling factor		0
Altitude	[ft]	300.0	Entering fluid temp.	[°F]	130.0
EAT db	[°F]	46.00	Fluid flow	[gpm]	15.70
Fin fouling factor		0			

OPTIONS/SPECIALTIES

Item quantity	1
Casing material	Galvanized Steel
Casing type	Flanged
Coating	None
Hand	Right
Vent / Drain	.50 FPT on Face

RESULTS

CONSTRUCTION			AIR SIDE		
Weight	[lbs]	86.17	Total / Sensible capacity	[MBH]	157.0 / 157.0
Weight with fluid	[lbs]	104.3	LAT db	[°F]	66.02
Face area	[ft²]	10.54	Air pressure drop (Standard)	[in wg]	0.2797
			FLUID SIDE		
			Fluid pressure drop	[ft H2O]	1.831
			Fluid flow rate	[gpm]	15.70
			Leaving fluid temp.	[°F]	109.8
			Internal volume	[in³]	507.6
			Tubeside velocity	[ft/s]	2.698

NOTES FROM CALCULATIONS

A - Certified in accordance with the AHRI Forced-Circulation Air-Cooling and Air-Heating Coils Certification Program which is based on AHRI Standard 410 within the Range of Standard Rating Conditions listed in Table 1 of the Standard. Certified units may be found in the AHRI Directory at www.ahridirectory.org.

K - Face and row spacing on 1.5 inch centers.

L - Coil rating valid for Heatcraft coils only.

USER NOTES

COILCALC FLUID VERIFICATION

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Telephone		Company	Hoffman & Hoffman, Inc.
Email		Return telephone	9197818011
Project	(116102) Eli Lilly - Building 4 Concord	Email	bennett.funderburk@hoffman-hoffman.com
Savedrun	2654690		

Item/Description RHC-4902D

CONSTRUCTION DATA

Model	5MQ1001C - 48 x 56.5	Connection material	Carbon Steel
Coils per bank	1	Connection type	MPT
Coil duty	Heat-Return Bend	Connection rotation	None
Tube OD [in]	5/8	Connection size [in]	1.50
Fin spacing [in/]	10.00	Connection qty	1
Rows	1	Connection end	Same End
Fin surface	C		
Fin height x length [in]	48.00 x 56.50		
Circuiting	Quarter		
Tube material [in]	0.035 Copper		
Fin material [in]	0.0095 Aluminum		

THERMODYNAMIC

AIR SIDE			FLUID SIDE		
Face velocity (Standard)	[ft/min]	680.2	Fluid		Water
Air flow (Standard)	[cfm]	12,810	Fouling factor		0
Altitude	[ft]	300.0	Entering fluid temp.	[°F]	130.0
EAT db	[°F]	46.00	Fluid flow	[gpm]	27.70
Fin fouling factor		0			

OPTIONS/SPECIALTIES

Item quantity	1
Casing material	Galvanized Steel
Casing type	Flanged
Coating	None
Hand	Right
Vent / Drain	.50 FPT on Face

RESULTS

CONSTRUCTION			AIR SIDE		
Weight	[lbs]	133.2	Total / Sensible capacity	[MBH]	293.3 / 293.3
Weight with fluid	[lbs]	161.8	LAT db	[°F]	67.11
Face area	[ft²]	18.83	Air pressure drop (Standard)	[in wg]	0.2754
			FLUID SIDE		
			Fluid pressure drop	[ft H2O]	5.218
			Fluid flow rate	[gpm]	27.70
			Leaving fluid temp.	[°F]	108.6
			Internal volume	[in³]	802.5
			Tubeside velocity	[ft/s]	4.165

NOTES FROM CALCULATIONS

A - Certified in accordance with the AHRI Forced-Circulation Air-Cooling and Air-Heating Coils Certification Program which is based on AHRI Standard 410 within the Range of Standard Rating Conditions listed in Table 1 of the Standard. Certified units may be found in the AHRI Directory at www.ahridirectory.org.

K - Face and row spacing on 1.5 inch centers.

L - Coil rating valid for Heatcraft coils only.

USER NOTES

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Email		Return telephone	9197818011
Project	(116102) Eli Lilly - Building 4 Concord	Email	bennett.funderburk@hoffman-hoffman.com
Savedrun	2654690		

Item/Description RHC-4903A,B,D

CONSTRUCTION DATA

Model	5MI1101B - 33 x 36	Connection material	Carbon Steel
Coils per bank	1	Connection type	MPT
Coil duty	Heat-Return Bend	Connection rotation	None
Tube OD [in]	5/8	Connection size [in]	1.50
Fin spacing [in/]	11.00	Connection qty	1
Rows	1	Connection end	Same End
Fin surface	B		
Fin height x length [in]	33.00 x 36.00		
Circuiting	One Sixth		
Tube material [in]	0.035 Copper		
Fin material [in]	0.0095 Aluminum		

THERMODYNAMIC

AIR SIDE			FLUID SIDE		
Face velocity (Standard) [ft/min]	686.1		Fluid		Water
Air flow (Standard) [cfm]	5,660		Fouling factor		0
Altitude [ft]	300.0		Entering fluid temp. [°F]		130.0
EAT db [°F]	46.00		Fluid flow [gpm]		12.30
Fin fouling factor	0				

OPTIONS/SPECIALTIES

Item quantity	3
Casing material	Galvanized Steel
Casing type	Flanged
Coating	None
Hand	Right
Vent / Drain	.50 FPT on Face

RESULTS

CONSTRUCTION			AIR SIDE		
Weight [lbs]	74.58		Total / Sensible capacity [MBH]		129.5 / 129.5
Weight with fluid [lbs]	90.16		LAT db [°F]		67.10
Face area [ft²]	8.250		Air pressure drop (Standard) [in wg]		0.2186
			FLUID SIDE		
			Fluid pressure drop [ft H2O]		3.571
			Fluid flow rate [gpm]		12.30
			Leaving fluid temp. [°F]		108.7
			Internal volume [in³]		436.7
			Tubeside velocity [ft/s]		3.699

NOTES FROM CALCULATIONS

A - Certified in accordance with the AHRI Forced-Circulation Air-Cooling and Air-Heating Coils Certification Program which is based on AHRI Standard 410 within the Range of Standard Rating Conditions listed in Table 1 of the Standard. Certified units may be found in the AHRI Directory at www.ahridirectory.org.

K - Face and row spacing on 1.5 inch centers.

L - Coil rating valid for Heatcraft coils only.

USER NOTES

COILCALC FLUID VERIFICATION

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Telephone		Company	Hoffman & Hoffman, Inc.
Email		Return telephone	9197818011
Project	(116102) Eli Lilly - Building 4 Concord	Email	bennett.funderburk@hoffman-hoffman.com
Savedrun	2654690		

Item/Description RHC-4903C

CONSTRUCTION DATA

Model	5MQ1101B - 45 x 53	Connection material	Carbon Steel
Coils per bank	1	Connection type	MPT
Coil duty	Heat-Return Bend	Connection rotation	None
Tube OD [in]	5/8	Connection size [in]	1.50
Fin spacing [in/]	11.00	Connection qty	1
Rows	1	Connection end	Same End
Fin surface	B		
Fin height x length [in]	45.00 x 53.00		
Circuiting	Quarter		
Tube material [in]	0.035 Copper		
Fin material [in]	0.0095 Aluminum		

THERMODYNAMIC

AIR SIDE			FLUID SIDE		
Face velocity (Standard)	[ft/min]	699.2	Fluid		Water
Air flow (Standard)	[cfm]	11,580	Fouling factor		0
Altitude	[ft]	300.0	Entering fluid temp.	[°F]	130.0
EAT db	[°F]	46.00	Fluid flow	[gpm]	25.10
Fin fouling factor		0			

OPTIONS/SPECIALTIES

Item quantity	1
Casing material	Galvanized Steel
Casing type	Flanged
Coating	None
Hand	Right
Vent / Drain	.50 FPT on Face

RESULTS

CONSTRUCTION			AIR SIDE		
Weight	[lbs]	123.3	Total / Sensible capacity	[MBH]	263.1 / 263.1
Weight with fluid	[lbs]	149.0	LAT db	[°F]	66.95
Face area	[ft²]	16.56	Air pressure drop (Standard)	[in wg]	0.2255
			FLUID SIDE		
			Fluid pressure drop	[ft H2O]	3.778
			Fluid flow rate	[gpm]	25.10
			Leaving fluid temp.	[°F]	108.8
			Internal volume	[in³]	721.5
			Tubeside velocity	[ft/s]	3.774

NOTES FROM CALCULATIONS

A - Certified in accordance with the AHRI Forced-Circulation Air-Cooling and Air-Heating Coils Certification Program which is based on AHRI Standard 410 within the Range of Standard Rating Conditions listed in Table 1 of the Standard. Certified units may be found in the AHRI Directory at www.ahridirectory.org.

K - Face and row spacing on 1.5 inch centers.

L - Coil rating valid for Heatcraft coils only.

USER NOTES

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Email		Return telephone	9197818011
Project	(116102) Eli Lilly - Building 4 Concord	Email	bennett.funderburk@hoffman-hoffman.com
Savedrun	2654690		

Item/Description RHC-4904A

CONSTRUCTION DATA

Model	5MQ1101B - 43.5 x 45	Connection material	Carbon Steel
Coils per bank	1	Connection type	MPT
Coil duty	Heat-Return Bend	Connection rotation	None
Tube OD [in]	5/8	Connection size [in]	1.50
Fin spacing [in/]	11.00	Connection qty	1
Rows	1	Connection end	Same End
Fin surface	B		
Fin height x length [in]	43.50 x 45.00		
Circuiting	Quarter		
Tube material [in]	0.035 Copper		
Fin material [in]	0.0095 Aluminum		

THERMODYNAMIC

AIR SIDE			FLUID SIDE		
Face velocity (Standard)	[ft/min]	676.8	Fluid		Water
Air flow (Standard)	[cfm]	9,200	Fouling factor		0
Altitude	[ft]	300.0	Entering fluid temp.	[°F]	130.0
EAT db	[°F]	46.00	Fluid flow	[gpm]	19.60
Fin fouling factor		0			

OPTIONS/SPECIALTIES

Item quantity	1
Casing material	Galvanized Steel
Casing type	Flanged
Coating	None
Hand	Right
Vent / Drain	.50 FPT on Face

RESULTS

CONSTRUCTION			AIR SIDE		
Weight	[lbs]	107.6	Total / Sensible capacity	[MBH]	205.7 / 205.7
Weight with fluid	[lbs]	130.3	LAT db	[°F]	66.62
Face area	[ft²]	13.59	Air pressure drop (Standard)	[in wg]	0.2138
			FLUID SIDE		
			Fluid pressure drop	[ft H2O]	2.300
			Fluid flow rate	[gpm]	19.60
			Leaving fluid temp.	[°F]	108.8
			Internal volume	[in³]	636.1
			Tubeside velocity	[ft/s]	2.947

NOTES FROM CALCULATIONS

A - Certified in accordance with the AHRI Forced-Circulation Air-Cooling and Air-Heating Coils Certification Program which is based on AHRI Standard 410 within the Range of Standard Rating Conditions listed in Table 1 of the Standard. Certified units may be found in the AHRI Directory at www.ahridirectory.org.

K - Face and row spacing on 1.5 inch centers.

L - Coil rating valid for Heatcraft coils only.

USER NOTES

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Email		Return telephone	9197818011
Project	(116102) Eli Lilly - Building 4 Concord	Email	bennett.funderburk@hoffman-hoffman.com
Savedrun	2654690		

Item/Description RHC-4904D

CONSTRUCTION DATA

Model	5MQ1101B - 46.5 x 61	Connection material	Carbon Steel
Coils per bank	1	Connection type	MPT
Coil duty	Heat-Return Bend	Connection rotation	None
Tube OD [in]	5/8	Connection size [in]	1.50
Fin spacing [in/]	11.00	Connection qty	1
Rows	1	Connection end	Same End
Fin surface	B		
Fin height x length [in]	46.50 x 61.00		
Circuiting	Quarter		
Tube material [in]	0.035 Copper		
Fin material [in]	0.0095 Aluminum		

THERMODYNAMIC

AIR SIDE			FLUID SIDE		
Face velocity (Standard)	[ft/min]	697.5	Fluid		Water
Air flow (Standard)	[cfm]	13,740	Fouling factor		0
Altitude	[ft]	300.0	Entering fluid temp.	[°F]	130.0
EAT db	[°F]	46.00	Fluid flow	[gpm]	29.70
Fin fouling factor		0			

OPTIONS/SPECIALTIES

Item quantity	1
Casing material	Galvanized Steel
Casing type	Flanged
Coating	None
Hand	Right
Vent / Drain	.50 FPT on Face

RESULTS

CONSTRUCTION			AIR SIDE		
Weight	[lbs]	139.6	Total / Sensible capacity	[MBH]	314.1 / 314.1
Weight with fluid	[lbs]	168.5	LAT db	[°F]	67.08
Face area	[ft²]	19.70	Air pressure drop (Standard)	[in wg]	0.2246
			FLUID SIDE		
			Fluid pressure drop	[ft H2O]	4.680
			Fluid flow rate	[gpm]	29.70
			Leaving fluid temp.	[°F]	108.6
			Internal volume	[in³]	812.0
			Tubeside velocity	[ft/s]	3.969

NOTES FROM CALCULATIONS

A - Certified in accordance with the AHRI Forced-Circulation Air-Cooling and Air-Heating Coils Certification Program which is based on AHRI Standard 410 within the Range of Standard Rating Conditions listed in Table 1 of the Standard. Certified units may be found in the AHRI Directory at www.ahridirectory.org.

K - Face and row spacing on 1.5 inch centers.

L - Coil rating valid for Heatcraft coils only.

USER NOTES

COILCALC FLUID VERIFICATION

Customer		Date	1/5/2023 4:48:38 PM
Contact		By	Bennett Funderburk
Telephone		Company	Hoffman & Hoffman, Inc.
Email		Return telephone	9197818011
Project	(116102) Eli Lilly - Building 4 Concord	Email	bennett.funderburk@hoffman-hoffman.com
Savedrun	2654690		

Item/Description RHC-4905A

CONSTRUCTION DATA

Model	5MQ1101B - 46.5 x 62	Connection material	Carbon Steel
Coils per bank	1	Connection type	MPT
Coil duty	Heat-Return Bend	Connection rotation	None
Tube OD [in]	5/8	Connection size [in]	1.50
Fin spacing [in/]	11.00	Connection qty	1
Rows	1	Connection end	Same End
Fin surface	B		
Fin height x length [in]	46.50 x 62.00		
Circuiting	Quarter		
Tube material [in]	0.035 Copper		
Fin material [in]	0.0095 Aluminum		

THERMODYNAMIC

AIR SIDE			FLUID SIDE		
Face velocity (Standard)	[ft/min]	698.3	Fluid		Water
Air flow (Standard)	[cfm]	13,980	Fouling factor		0
Altitude	[ft]	300.0	Entering fluid temp.	[°F]	130.0
EAT db	[°F]	46.00	Fluid flow	[gpm]	30.20
Fin fouling factor		0			

OPTIONS/SPECIALTIES

Item quantity	1
Casing material	Galvanized Steel
Casing type	Flanged
Coating	None
Hand	Right
Vent / Drain	.50 FPT on Face

RESULTS

CONSTRUCTION			AIR SIDE		
Weight	[lbs]	141.2	Total / Sensible capacity	[MBH]	319.9 / 319.9
Weight with fluid	[lbs]	170.7	LAT db	[°F]	67.10
Face area	[ft²]	20.02	Air pressure drop (Standard)	[in wg]	0.2250
			FLUID SIDE		
			Fluid pressure drop	[ft H2O]	4.855
			Fluid flow rate	[gpm]	30.20
			Leaving fluid temp.	[°F]	108.6
			Internal volume	[in³]	828.5
			Tubeside velocity	[ft/s]	4.036

NOTES FROM CALCULATIONS

A - Certified in accordance with the AHRI Forced-Circulation Air-Cooling and Air-Heating Coils Certification Program which is based on AHRI Standard 410 within the Range of Standard Rating Conditions listed in Table 1 of the Standard. Certified units may be found in the AHRI Directory at www.ahridirectory.org.

K - Face and row spacing on 1.5 inch centers.

L - Coil rating valid for Heatcraft coils only.

USER NOTES

COILCALC FLUID VERIFICATION

Customer	Date	1/5/2023 4:48:39 PM
Contact	By	Bennett Funderburk
Telephone	Company	Hoffman & Hoffman, Inc.
Email	Return telephone	9197818011
Project (116102) Eli Lilly - Building 4 Concord	Email	bennett.funderburk@hoffman-hoffman.com
Savedrun 2654690		

Item/Description RHC-4905C

CONSTRUCTION DATA

Model	5MQ1101B - 40.5 x 43	Connection material	Carbon Steel
Coils per bank	1	Connection type	MPT
Coil duty	Heat-Return Bend	Connection rotation	None
Tube OD [in]	5/8	Connection size [in]	1.50
Fin spacing [in/]	11.00	Connection qty	1
Rows	1	Connection end	Same End
Fin surface	B		
Fin height x length [in]	40.50 x 43.00		
Circuiting	Quarter		
Tube material [in]	0.035 Copper		
Fin material [in]	0.0095 Aluminum		

THERMODYNAMIC

AIR SIDE			FLUID SIDE		
Face velocity (Standard) [ft/min]	699.5	Fluid	Water		
Air flow (Standard) [cfm]	8,460	Fouling factor	0		
Altitude [ft]	300.0	Entering fluid temp. [°F]	130.0		
EAT db [°F]	46.00	Fluid flow [gpm]	18.30		
Fin fouling factor	0				

OPTIONS/SPECIALTIES

Item quantity	1
Casing material	Galvanized Steel
Casing type	Flanged
Coating	None
Hand	Right
Vent / Drain	.50 FPT on Face

RESULTS

CONSTRUCTION			AIR SIDE		
Weight [lbs]	98.49	Total / Sensible capacity [MBH]	184.9 / 184.9		
Weight with fluid [lbs]	119.2	LAT db [°F]	66.16		
Face area [ft²]	12.09	Air pressure drop (Standard) [in wg]	0.2257		
		FLUID SIDE			
		Fluid pressure drop [ft H2O]	1.995		
		Fluid flow rate [gpm]	18.30		
		Leaving fluid temp. [°F]	109.6		
		Internal volume [in³]	579.2		
		Tubeside velocity [ft/s]	2.751		

NOTES FROM CALCULATIONS

A - Certified in accordance with the AHRI Forced-Circulation Air-Cooling and Air-Heating Coils Certification Program which is based on AHRI Standard 410 within the Range of Standard Rating Conditions listed in Table 1 of the Standard. Certified units may be found in the AHRI Directory at www.ahridirectory.org.

K - Face and row spacing on 1.5 inch centers.

L - Coil rating valid for Heatcraft coils only.

USER NOTES

COILCALC FLUID VERIFICATION

Customer		Date	1/5/2023 4:48:39 PM
Contact		By	Bennett Funderburk
Telephone		Company	Hoffman & Hoffman, Inc.
Email		Return telephone	9197818011
Project	(116102) Eli Lilly - Building 4 Concord	Email	bennett.funderburk@hoffman-hoffman.com
Savedrun	2654690		

Item/Description RHC-4905D

CONSTRUCTION DATA

Model	5MQ1101B - 46.5 x 60	Connection material	Carbon Steel
Coils per bank	1	Connection type	MPT
Coil duty	Heat-Return Bend	Connection rotation	None
Tube OD [in]	5/8	Connection size [in]	1.50
Fin spacing [in/]	11.00	Connection qty	1
Rows	1	Connection end	Same End
Fin surface	B		
Fin height x length [in]	46.50 x 60.00		
Circuiting	Quarter		
Tube material [in]	0.035 Copper		
Fin material [in]	0.0095 Aluminum		

THERMODYNAMIC

AIR SIDE			FLUID SIDE		
Face velocity (Standard)	[ft/min]	698.8	Fluid		Water
Air flow (Standard)	[cfm]	13,540	Fouling factor		0
Altitude	[ft]	300.0	Entering fluid temp.	[°F]	130.0
EAT db	[°F]	46.00	Fluid flow	[gpm]	29.30
Fin fouling factor		0			

OPTIONS/SPECIALTIES

Item quantity	1
Casing material	Galvanized Steel
Casing type	Flanged
Coating	None
Hand	Right
Vent / Drain	.50 FPT on Face

RESULTS

CONSTRUCTION			AIR SIDE		
Weight	[lbs]	137.9	Total / Sensible capacity	[MBH]	308.8 / 308.8
Weight with fluid	[lbs]	166.9	LAT db	[°F]	67.03
Face area	[ft²]	19.38	Air pressure drop (Standard)	[in wg]	0.2253
			FLUID SIDE		
			Fluid pressure drop	[ft H2O]	4.538
			Fluid flow rate	[gpm]	29.30
			Leaving fluid temp.	[°F]	108.7
			Internal volume	[in³]	812.0
			Tubeside velocity	[ft/s]	3.916

NOTES FROM CALCULATIONS

A - Certified in accordance with the AHRI Forced-Circulation Air-Cooling and Air-Heating Coils Certification Program which is based on AHRI Standard 410 within the Range of Standard Rating Conditions listed in Table 1 of the Standard. Certified units may be found in the AHRI Directory at www.ahridirectory.org.

K - Face and row spacing on 1.5 inch centers.

L - Coil rating valid for Heatcraft coils only.

USER NOTES

COILCALC FLUID VERIFICATION

Customer		Date	1/5/2023 4:48:39 PM
Contact		By	Bennett Funderburk
Telephone		Company	Hoffman & Hoffman, Inc.
Email		Return telephone	9197818011
Project	(116102) Eli Lilly - Building 4 Concord	Email	bennett.funderburk@hoffman-hoffman.com
Savedrun	2654690		

Item/Description RHC-4906A,B

CONSTRUCTION DATA

Model	5MI1101B - 34.5 x 38	Connection material	Carbon Steel
Coils per bank	1	Connection type	MPT
Coil duty	Heat-Return Bend	Connection rotation	None
Tube OD [in]	5/8	Connection size [in]	1.50
Fin spacing [in/]	11.00	Connection qty	1
Rows	1	Connection end	Same End
Fin surface	B		
Fin height x length [in]	34.50 x 38.00		
Circuiting	One Sixth		
Tube material [in]	0.035 Copper		
Fin material [in]	0.0095 Aluminum		

THERMODYNAMIC

AIR SIDE			FLUID SIDE		
Face velocity (Standard)	[ft/min]	694.2	Fluid		Water
Air flow (Standard)	[cfm]	6,320	Fouling factor		0
Altitude	[ft]	300.0	Entering fluid temp.	[°F]	130.0
EAT db	[°F]	46.00	Fluid flow	[gpm]	13.90
Fin fouling factor		0			

OPTIONS/SPECIALTIES

Item quantity	2
Casing material	Galvanized Steel
Casing type	Flanged
Coating	None
Hand	Right
Vent / Drain	.50 FPT on Face

RESULTS

CONSTRUCTION			AIR SIDE		
Weight	[lbs]	79.92	Total / Sensible capacity	[MBH]	145.9 / 145.9
Weight with fluid	[lbs]	96.62	LAT db	[°F]	67.29
Face area	[ft²]	9.104	Air pressure drop (Standard)	[in wg]	0.2229
			FLUID SIDE		
			Fluid pressure drop	[ft H2O]	4.658
			Fluid flow rate	[gpm]	13.90
			Leaving fluid temp.	[°F]	108.8
			Internal volume	[in³]	468.1
			Tubeside velocity	[ft/s]	4.180

NOTES FROM CALCULATIONS

A - Certified in accordance with the AHRI Forced-Circulation Air-Cooling and Air-Heating Coils Certification Program which is based on AHRI Standard 410 within the Range of Standard Rating Conditions listed in Table 1 of the Standard. Certified units may be found in the AHRI Directory at www.ahridirectory.org.

K - Face and row spacing on 1.5 inch centers.

L - Coil rating valid for Heatcraft coils only.

USER NOTES

COILCALC FLUID VERIFICATION

Customer	Date	1/5/2023 4:48:39 PM
Contact	By	Bennett Funderburk
Telephone	Company	Hoffman & Hoffman, Inc.
Email	Return telephone	9197818011
Project (116102) Eli Lilly - Building 4 Concord	Email	bennett.funderburk@hoffman-hoffman.com
Savedrun 2654690		

Item/Description RHC-4906C

CONSTRUCTION DATA

Model	5MQ1101B - 36 x 43	Connection material	Carbon Steel
Coils per bank	1	Connection type	MPT
Coil duty	Heat-Return Bend	Connection rotation	None
Tube OD [in]	5/8	Connection size [in]	1.50
Fin spacing [in/]	11.00	Connection qty	1
Rows	1	Connection end	Same End
Fin surface	B		
Fin height x length [in]	36.00 x 43.00		
Circuiting	Quarter		
Tube material [in]	0.035 Copper		
Fin material [in]	0.0095 Aluminum		

THERMODYNAMIC

AIR SIDE

Face velocity (Standard)	[ft/min]	680.9
Air flow (Standard)	[cfm]	7,320
Altitude	[ft]	300.0
EAT db	[°F]	46.00
Fin fouling factor		0

FLUID SIDE

Fluid	Water
Fouling factor	0
Entering fluid temp.	[°F] 130.0
Fluid flow	[gpm] 18.00

OPTIONS/SPECIALTIES

Item quantity	1
Casing material	Galvanized Steel
Casing type	Flanged
Coating	None
Hand	Right
Vent / Drain	.50 FPT on Face

RESULTS

CONSTRUCTION

Weight	[lbs]	89.42
Weight with fluid	[lbs]	107.8
Face area	[ft²]	10.75

AIR SIDE

Total / Sensible capacity	[MBH]	170.5 / 170.5
LAT db	[°F]	67.48
Air pressure drop (Standard)	[in wg]	0.2159

FLUID SIDE

Fluid pressure drop	[ft H2O]	3.244
Fluid flow rate	[gpm]	18.00
Leaving fluid temp.	[°F]	110.8
Internal volume	[in³]	515.2
Tubeside velocity	[ft/s]	3.608

NOTES FROM CALCULATIONS

A - Certified in accordance with the AHRI Forced-Circulation Air-Cooling and Air-Heating Coils Certification Program which is based on AHRI Standard 410 within the Range of Standard Rating Conditions listed in Table 1 of the Standard. Certified units may be found in the AHRI Directory at www.ahridirectory.org.

K - Face and row spacing on 1.5 inch centers.

L - Coil rating valid for Heatcraft coils only.

USER NOTES

COILCALC FLUID VERIFICATION

Customer		Date	1/5/2023 4:48:39 PM
Contact		By	Bennett Funderburk
Telephone		Company	Hoffman & Hoffman, Inc.
Email		Return telephone	9197818011
Project	(116102) Eli Lilly - Building 4 Concord	Email	bennett.funderburk@hoffman-hoffman.com
Savedrun	2654690		

Item/Description RHC-4101A

CONSTRUCTION DATA

Model	5MI1201B - 21 x 24	Connection material	Carbon Steel
Coils per bank	1	Connection type	MPT
Coil duty	Heat-Return Bend	Connection rotation	None
Tube OD [in]	5/8	Connection size [in]	1.50
Fin spacing [in/]	12.00	Connection qty	1
Rows	1	Connection end	Same End
Fin surface	B		
Fin height x length [in]	21.00 x 24.00		
Circuiting	One Sixth		
Tube material [in]	0.035 Copper		
Fin material [in]	0.0095 Aluminum		

THERMODYNAMIC

AIR SIDE			FLUID SIDE		
Face velocity (Standard)	[ft/min]	600.0	Fluid		Water
Air flow (Standard)	[cfm]	2,100	Fouling factor		0
Altitude	[ft]	300.0	Entering fluid temp.	[°F]	130.0
EAT db	[°F]	46.00	Fluid flow	[gpm]	6.500
Fin fouling factor		0			

OPTIONS/SPECIALTIES

Item quantity	1
Casing material	Galvanized Steel
Casing type	Flanged
Coating	None
Hand	Right
Vent / Drain	.50 FPT on Face

RESULTS

CONSTRUCTION			AIR SIDE		
Weight	[lbs]	41.79	Total / Sensible capacity	[MBH]	57.07 / 57.07
Weight with fluid	[lbs]	50.25	LAT db	[°F]	71.06
Face area	[ft²]	3.500	Air pressure drop (Standard)	[in wg]	0.1855
			FLUID SIDE		
			Fluid pressure drop	[ft H2O]	3.648
			Fluid flow rate	[gpm]	6.500
			Leaving fluid temp.	[°F]	112.2
			Internal volume	[in³]	237.0
			Tubeside velocity	[ft/s]	3.909

NOTES FROM CALCULATIONS

A - Certified in accordance with the AHRI Forced-Circulation Air-Cooling and Air-Heating Coils Certification Program which is based on AHRI Standard 410 within the Range of Standard Rating Conditions listed in Table 1 of the Standard. Certified units may be found in the AHRI Directory at www.ahridirectory.org.

K - Face and row spacing on 1.5 inch centers.

L - Coil rating valid for Heatcraft coils only.

USER NOTES

COILCALC FLUID VERIFICATION

Customer		Date	1/5/2023 4:48:39 PM
Contact		By	Bennett Funderburk
Telephone		Company	Hoffman & Hoffman, Inc.
Email		Return telephone	9197818011
Project	(116102) Eli Lilly - Building 4 Concord	Email	bennett.funderburk@hoffman-hoffman.com
Savedrun	2654690		

Item/Description RHC-4101B

CONSTRUCTION DATA

Model	5MI1201C - 24 x 26	Connection material	Carbon Steel
Coils per bank	1	Connection type	MPT
Coil duty	Heat-Return Bend	Connection rotation	None
Tube OD [in]	5/8	Connection size [in]	1.50
Fin spacing [in/]	12.00	Connection qty	1
Rows	1	Connection end	Same End
Fin surface	C		
Fin height x length [in]	24.00 x 26.00		
Circuiting	One Sixth		
Tube material [in]	0.035 Copper		
Fin material [in]	0.0095 Aluminum		

THERMODYNAMIC

AIR SIDE			FLUID SIDE		
Face velocity (Standard)	[ft/min]	623.1	Fluid		Water
Air flow (Standard)	[cfm]	2,700	Fouling factor		0
Altitude	[ft]	300.0	Entering fluid temp.	[°F]	130.0
EAT db	[°F]	46.00	Fluid flow	[gpm]	8.500
Fin fouling factor		0			

OPTIONS/SPECIALTIES

Item quantity	1
Casing material	Galvanized Steel
Casing type	Flanged
Coating	None
Hand	Right
Vent / Drain	.50 FPT on Face

RESULTS

CONSTRUCTION			AIR SIDE		
Weight	[lbs]	48.50	Total / Sensible capacity	[MBH]	73.67 / 73.67
Weight with fluid	[lbs]	58.44	LAT db	[°F]	71.16
Face area	[ft²]	4.333	Air pressure drop (Standard)	[in wg]	0.3091
			FLUID SIDE		
			Fluid pressure drop	[ft H2O]	2.627
			Fluid flow rate	[gpm]	8.500
			Leaving fluid temp.	[°F]	112.5
			Internal volume	[in³]	278.3
			Tubeside velocity	[ft/s]	3.408

NOTES FROM CALCULATIONS

A - Certified in accordance with the AHRI Forced-Circulation Air-Cooling and Air-Heating Coils Certification Program which is based on AHRI Standard 410 within the Range of Standard Rating Conditions listed in Table 1 of the Standard. Certified units may be found in the AHRI Directory at www.ahridirectory.org.

K - Face and row spacing on 1.5 inch centers.

L - Coil rating valid for Heatcraft coils only.

USER NOTES

COILCALC FLUID VERIFICATION

Customer	Date	1/5/2023 4:48:39 PM
Contact	By	Bennett Funderburk
Telephone	Company	Hoffman & Hoffman, Inc.
Email	Return telephone	9197818011
Project (116102) Eli Lilly - Building 4 Concord	Email	bennett.funderburk@hoffman-hoffman.com
Savedrun 2654690		

Item/Description RHC-4101C

CONSTRUCTION DATA

Model	3MQ0602C - 12 x 13	Connection material	Carbon Steel
Coils per bank	1	Connection type	MPT
Coil duty	Heat-Return Bend	Connection rotation	None
Tube OD [in]	3/8	Connection size [in]	1.50
Fin spacing [in/]	6.000	Connection qty	1
Rows	2	Connection end	Same End
Fin surface	C		
Fin height x length [in]	12.00 x 13.00		
Circuiting	Quarter		
Tube material [in]	0.030 Copper		
Fin material [in]	0.0095 Aluminum		

THERMODYNAMIC

AIR SIDE			FLUID SIDE		
Face velocity (Standard)	[ft/min]	646.2	Fluid		Water
Air flow (Standard)	[cfm]	700.0	Fouling factor		0
Altitude	[ft]	300.0	Entering fluid temp.	[°F]	130.0
EAT db	[°F]	46.00	Fluid flow	[gpm]	1.900
Fin fouling factor		0			

OPTIONS/SPECIALTIES

Item quantity	1
Casing material	Galvanized Steel
Casing type	Flanged
Coating	None
Hand	Right
Vent / Drain	.50 FPT on Face

RESULTS

CONSTRUCTION			AIR SIDE		
Weight	[lbs]	20.02	Total / Sensible capacity	[MBH]	20.40 / 20.40
Weight with fluid	[lbs]	24.04	LAT db	[°F]	72.87
Face area	[ft²]	1.083	Air pressure drop (Standard)	[in wg]	0.2423
			FLUID SIDE		
			Fluid pressure drop	[ft H2O]	2.397
			Fluid flow rate	[gpm]	1.900
			Leaving fluid temp.	[°F]	108.3
			Internal volume	[in³]	112.6
			Tubeside velocity	[ft/s]	2.342

NOTES FROM CALCULATIONS

C - Coil is NOT certified by AHRI. Coil is within the scope of the AHRI Forced-Circulation Air-Cooling and Air-Heating Coils Certification Program.
 L - Coil rating valid for Heatcraft coils only.

USER NOTES

COILCALC FLUID VERIFICATION

Customer		Date	1/5/2023 4:48:40 PM
Contact		By	Bennett Funderburk
Telephone		Company	Hoffman & Hoffman, Inc.
Email		Return telephone	9197818011
Project	(116102) Eli Lilly - Building 4 Concord	Email	bennett.funderburk@hoffman-hoffman.com
Savedrun	2654690		

Item/Description RHC-4102, 4108, 4114, 4202, 4208

CONSTRUCTION DATA

Model	3MQ0902B - 7 x 6	Connection material	Carbon Steel
Coils per bank	1	Connection type	MPT
Coil duty	Heat-Return Bend	Connection rotation	None
Tube OD [in]	3/8	Connection size [in]	1.50
Fin spacing [in/]	9.000	Connection qty	1
Rows	2	Connection end	Same End
Fin surface	B		
Fin height x length [in]	7.000 x 6.000		
Circuiting	Quarter		
Tube material [in]	0.030 Copper		
Fin material [in]	0.0095 Aluminum		

THERMODYNAMIC

AIR SIDE

Face velocity (Standard)	[ft/min]	685.7
Air flow (Standard)	[cfm]	200.0
Altitude	[ft]	300.0
EAT db	[°F]	46.00
Fin fouling factor		0

FLUID SIDE

Fluid	Water
Fouling factor	0
Entering fluid temp.	[°F] 130.0
Fluid flow	[gpm] 0.6000

OPTIONS/SPECIALTIES

Item quantity	5
Casing material	Galvanized Steel
Casing type	Flanged
Coating	None
Hand	Right
Vent / Drain	.50 FPT on Face

RESULTS

CONSTRUCTION

Weight	[lbs]	9.976
Weight with fluid	[lbs]	12.24
Face area	[ft²]	0.2917

AIR SIDE

Total / Sensible capacity	[MBH]	5.454 / 5.454
LAT db	[°F]	71.15
Air pressure drop (Standard)	[in wg]	0.2601

FLUID SIDE

Fluid pressure drop	[ft H2O]	0.5058
Fluid flow rate	[gpm]	0.6000
Leaving fluid temp.	[°F]	111.6
Internal volume	[in³]	63.58
Tubeside velocity	[ft/s]	1.109

NOTES FROM CALCULATIONS

C - Coil is NOT certified by AHRI. Coil is within the scope of the AHRI Forced-Circulation Air-Cooling and Air-Heating Coils Certification Program.

L - Coil rating valid for Heatcraft coils only.

USER NOTES

COILCALC FLUID VERIFICATION

Customer		Date	1/5/2023 4:48:40 PM
Contact		By	Bennett Funderburk
Telephone		Company	Hoffman & Hoffman, Inc.
Email		Return telephone	9197818011
Project	(116102) Eli Lilly - Building 4 Concord	Email	bennett.funderburk@hoffman-hoffman.com
Savedrun	2654690		

Item/Description RHC-4103, 4118, 4203

CONSTRUCTION DATA

Model	3MI0602C - 10 x 10	Connection material	Carbon Steel
Coils per bank	1	Connection type	MPT
Coil duty	Heat-Return Bend	Connection rotation	None
Tube OD [in]	3/8	Connection size [in]	1.50
Fin spacing [in/]	6.000	Connection qty	1
Rows	2	Connection end	Same End
Fin surface	C		
Fin height x length [in]	10.00 x 10.00		
Circuiting	One Sixth		
Tube material [in]	0.030 Copper		
Fin material [in]	0.0095 Aluminum		

THERMODYNAMIC

AIR SIDE			FLUID SIDE		
Face velocity (Standard)	[ft/min]	648.0	Fluid		Water
Air flow (Standard)	[cfm]	450.0	Fouling factor		0
Altitude	[ft]	300.0	Entering fluid temp.	[°F]	130.0
EAT db	[°F]	46.00	Fluid flow	[gpm]	1.300
Fin fouling factor		0			

OPTIONS/SPECIALTIES

Item quantity	3
Casing material	Galvanized Steel
Casing type	Flanged
Coating	None
Hand	Right
Vent / Drain	.50 FPT on Face

RESULTS

CONSTRUCTION			AIR SIDE		
Weight	[lbs]	15.54	Total / Sensible capacity	[MBH]	13.24 / 13.24
Weight with fluid	[lbs]	18.83	LAT db	[°F]	73.12
Face area	[ft²]	0.6944	Air pressure drop (Standard)	[in wg]	0.2435
			FLUID SIDE		
			Fluid pressure drop	[ft H2O]	3.193
			Fluid flow rate	[gpm]	1.300
			Leaving fluid temp.	[°F]	109.4
			Internal volume	[in³]	92.24
			Tubeside velocity	[ft/s]	2.404

NOTES FROM CALCULATIONS

C - Coil is NOT certified by AHRI. Coil is within the scope of the AHRI Forced-Circulation Air-Cooling and Air-Heating Coils Certification Program.

L - Coil rating valid for Heatcraft coils only.

USER NOTES

COILCALC FLUID VERIFICATION

Customer		Date	1/5/2023 4:48:40 PM
Contact		By	Bennett Funderburk
Telephone		Company	Hoffman & Hoffman, Inc.
Email		Return telephone	9197818011
Project	(116102) Eli Lilly - Building 4 Concord	Email	bennett.funderburk@hoffman-hoffman.com
Savedrun	2654690		

Item/Description RHC-4107, 4122A, 4212, 4207

CONSTRUCTION DATA

Model	3MQ0802B - 12 x 14	Connection material	Carbon Steel
Coils per bank	1	Connection type	MPT
Coil duty	Heat-Return Bend	Connection rotation	None
Tube OD	[in] 3/8	Connection size	[in] 1.50
Fin spacing	[in/] 8.000	Connection qty	1
Rows	2	Connection end	Same End
Fin surface	B		
Fin height x length	[in] 12.00 x 14.00		
Circuiting	Quarter		
Tube material	[in] 0.030 Copper		
Fin material	[in] 0.0095 Aluminum		

THERMODYNAMIC

AIR SIDE			FLUID SIDE		
Face velocity (Standard)	[ft/min]	685.7	Fluid		Water
Air flow (Standard)	[cfm]	800.0	Fouling factor		0
Altitude	[ft]	300.0	Entering fluid temp.	[°F]	130.0
EAT db	[°F]	46.00	Fluid flow	[gpm]	2.200
Fin fouling factor		0			

OPTIONS/SPECIALTIES

Item quantity	4
Casing material	Galvanized Steel
Casing type	Flanged
Coating	None
Hand	Right
Vent / Drain	.50 FPT on Face

RESULTS

CONSTRUCTION			AIR SIDE		
Weight	[lbs]	21.41	Total / Sensible capacity	[MBH]	22.90 / 22.90
Weight with fluid	[lbs]	25.58	LAT db	[°F]	72.39
Face area	[ft²]	1.167	Air pressure drop (Standard)	[in wg]	0.2402
			FLUID SIDE		
			Fluid pressure drop	[ft H2O]	3.185
			Fluid flow rate	[gpm]	2.200
			Leaving fluid temp.	[°F]	108.9
			Internal volume	[in³]	116.8
			Tubeside velocity	[ft/s]	2.712

NOTES FROM CALCULATIONS

C - Coil is NOT certified by AHRI. Coil is within the scope of the AHRI Forced-Circulation Air-Cooling and Air-Heating Coils Certification Program.
 L - Coil rating valid for Heatcraft coils only.

USER NOTES

COILCALC FLUID VERIFICATION

Customer	Date	1/5/2023 4:48:40 PM
Contact	By	Bennett Funderburk
Telephone	Company	Hoffman & Hoffman, Inc.
Email	Return telephone	9197818011
Project (116102) Eli Lilly - Building 4 Concord	Email	bennett.funderburk@hoffman-hoffman.com
Savedrun 2654690		

Item/Description RHC-4110, 4210

CONSTRUCTION DATA

Model	3MQ0602C - 8 x 10	Connection material	Carbon Steel
Coils per bank	1	Connection type	MPT
Coil duty	Heat-Return Bend	Connection rotation	None
Tube OD [in]	3/8	Connection size [in]	1.50
Fin spacing [in/]	6.000	Connection qty	1
Rows	2	Connection end	Same End
Fin surface	C		
Fin height x length [in]	8.000 x 10.00		
Circuiting	Quarter		
Tube material [in]	0.030 Copper		
Fin material [in]	0.0095 Aluminum		

THERMODYNAMIC

AIR SIDE			FLUID SIDE		
Face velocity (Standard)	[ft/min]	630.0	Fluid		Water
Air flow (Standard)	[cfm]	350.0	Fouling factor		0
Altitude	[ft]	300.0	Entering fluid temp.	[°F]	130.0
EAT db	[°F]	46.00	Fluid flow	[gpm]	1.000
Fin fouling factor		0			

OPTIONS/SPECIALTIES

Item quantity	2
Casing material	Galvanized Steel
Casing type	Flanged
Coating	None
Hand	Right
Vent / Drain	.50 FPT on Face

RESULTS

CONSTRUCTION			AIR SIDE		
Weight	[lbs]	13.21	Total / Sensible capacity	[MBH]	10.12 / 10.12
Weight with fluid	[lbs]	15.94	LAT db	[°F]	72.66
Face area	[ft²]	0.5556	Air pressure drop (Standard)	[in wg]	0.2320
			FLUID SIDE		
			Fluid pressure drop	[ft H2O]	1.451
			Fluid flow rate	[gpm]	1.000
			Leaving fluid temp.	[°F]	109.5
			Internal volume	[in³]	76.37
			Tubeside velocity	[ft/s]	1.849

NOTES FROM CALCULATIONS

C - Coil is NOT certified by AHRI. Coil is within the scope of the AHRI Forced-Circulation Air-Cooling and Air-Heating Coils Certification Program.
 L - Coil rating valid for Heatcraft coils only.

USER NOTES

COILCALC FLUID VERIFICATION

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Telephone		Company	Hoffman & Hoffman, Inc.
Email		Return telephone	9197818011
Project	(116102) Eli Lilly - Building 4 Concord	Email	bennett.funderburk@hoffman-hoffman.com
Savedrun	2654690		

Item/Description RHC-4120F, 4123F

CONSTRUCTION DATA

Model	3MQ0602C - 10 x 8	Connection material	Carbon Steel
Coils per bank	1	Connection type	MPT
Coil duty	Heat-Return Bend	Connection rotation	None
Tube OD	[in] 3/8	Connection size	[in] 1.50
Fin spacing	[in/] 6.000	Connection qty	1
Rows	2	Connection end	Same End
Fin surface	C		
Fin height x length	[in] 10.00 x 8.000		
Circuiting	Quarter		
Tube material	[in] 0.030 Copper		
Fin material	[in] 0.0095 Aluminum		

THERMODYNAMIC

AIR SIDE			FLUID SIDE		
Face velocity (Standard)	[ft/min]	630.0	Fluid		Water
Air flow (Standard)	[cfm]	350.0	Fouling factor		0
Altitude	[ft]	300.0	Entering fluid temp.	[°F]	130.0
EAT db	[°F]	46.00	Fluid flow	[gpm]	1.000
Fin fouling factor		0			

OPTIONS/SPECIALTIES

Item quantity	2
Casing material	Galvanized Steel
Casing type	Flanged
Coating	None
Hand	Right
Vent / Drain	.50 FPT on Face

RESULTS

CONSTRUCTION			AIR SIDE		
Weight	[lbs]	14.21	Total / Sensible capacity	[MBH]	9.591 / 9.591
Weight with fluid	[lbs]	17.39	LAT db	[°F]	71.27
Face area	[ft²]	0.5556	Air pressure drop (Standard)	[in wg]	0.2320
			FLUID SIDE		
			Fluid pressure drop	[ft H2O]	0.6262
			Fluid flow rate	[gpm]	1.000
			Leaving fluid temp.	[°F]	110.6
			Internal volume	[in³]	89.11
			Tubeside velocity	[ft/s]	1.233

NOTES FROM CALCULATIONS

C - Coil is NOT certified by AHRI. Coil is within the scope of the AHRI Forced-Circulation Air-Cooling and Air-Heating Coils Certification Program.

L - Coil rating valid for Heatcraft coils only.

USER NOTES

COILCALC FLUID VERIFICATION

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Telephone	Company	Hoffman & Hoffman, Inc.
Email	Return telephone	9197818011
Project (116102) Eli Lilly - Building 4 Concord	Email	bennett.funderburk@hoffman-hoffman.com
Savedrun 2654690		

Item/Description RHC-4112, 4120B

CONSTRUCTION DATA

Model	5MI0702B - 24 x 24	Connection material	Carbon Steel
Coils per bank	1	Connection type	MPT
Coil duty	Heat-Return Bend	Connection rotation	None
Tube OD [in]	5/8	Connection size [in]	1.50
Fin spacing [in/]	7.000	Connection qty	1
Rows	2	Connection end	Same End
Fin surface	B		
Fin height x length [in]	24.00 x 24.00		
Circuiting	One Sixth		
Tube material [in]	0.035 Copper		
Fin material [in]	0.0095 Aluminum		

THERMODYNAMIC

AIR SIDE			FLUID SIDE		
Face velocity (Standard)	[ft/min]	625.0	Fluid	Water	
Air flow (Standard)	[cfm]	2,500	Fouling factor	0	
Altitude	[ft]	300.0	Entering fluid temp.	[°F]	130.0
EAT db	[°F]	46.00	Fluid flow	[gpm]	6.800
Fin fouling factor		0			

OPTIONS/SPECIALTIES

Item quantity	2
Casing material	Galvanized Steel
Casing type	Flanged
Coating	None
Hand	Right
Vent / Drain	.50 FPT on Face

RESULTS

CONSTRUCTION			AIR SIDE		
Weight	[lbs]	56.32	Total / Sensible capacity	[MBH]	70.13 / 70.13
Weight with fluid	[lbs]	70.27	LAT db	[°F]	71.87
Face area	[ft²]	4.000	Air pressure drop (Standard)	[in wg]	0.2555
			FLUID SIDE		
			Fluid pressure drop	[ft H2O]	2.956
			Fluid flow rate	[gpm]	6.800
			Leaving fluid temp.	[°F]	109.1
			Internal volume	[in³]	390.9
			Tubeside velocity	[ft/s]	2.726

NOTES FROM CALCULATIONS

A - Certified in accordance with the AHRI Forced-Circulation Air-Cooling and Air-Heating Coils Certification Program which is based on AHRI Standard 410 within the Range of Standard Rating Conditions listed in Table 1 of the Standard. Certified units may be found in the AHRI Directory at www.ahridirectory.org.

L - Coil rating valid for Heatcraft coils only.

USER NOTES

COILCALC FLUID VERIFICATION

Customer		Date	1/5/2023 4:48:40 PM
Contact		By	Bennett Funderburk
Telephone		Company	Hoffman & Hoffman, Inc.
Email		Return telephone	9197818011
Project	(116102) Eli Lilly - Building 4 Concord	Email	bennett.funderburk@hoffman-hoffman.com
Savedrun	2654690		

Item/Description RHC-4113B, 4122B

CONSTRUCTION DATA

Model	5MI0802A - 18 x 24	Connection material	Carbon Steel
Coils per bank	1	Connection type	MPT
Coil duty	Heat-Return Bend	Connection rotation	None
Tube OD [in]	5/8	Connection size [in]	1.50
Fin spacing [in/]	8.000	Connection qty	1
Rows	2	Connection end	Same End
Fin surface	A		
Fin height x length [in]	18.00 x 24.00		
Circuiting	One Sixth		
Tube material [in]	0.035 Copper		
Fin material [in]	0.0095 Aluminum		

THERMODYNAMIC

AIR SIDE			FLUID SIDE		
Face velocity (Standard)	[ft/min]	666.7	Fluid		Water
Air flow (Standard)	[cfm]	2,000	Fouling factor		0
Altitude	[ft]	300.0	Entering fluid temp.	[°F]	130.0
EAT db	[°F]	46.00	Fluid flow	[gpm]	5.400
Fin fouling factor		0			

OPTIONS/SPECIALTIES

Item quantity	2
Casing material	Galvanized Steel
Casing type	Flanged
Coating	None
Hand	Right
Vent / Drain	.50 FPT on Face

RESULTS

CONSTRUCTION			AIR SIDE		
Weight	[lbs]	45.45	Total / Sensible capacity	[MBH]	56.15 / 56.15
Weight with fluid	[lbs]	56.01	LAT db	[°F]	71.89
Face area	[ft²]	3.000	Air pressure drop (Standard)	[in wg]	0.1848
			FLUID SIDE		
			Fluid pressure drop	[ft H2O]	4.305
			Fluid flow rate	[gpm]	5.400
			Leaving fluid temp.	[°F]	109.0
			Internal volume	[in³]	296.0
			Tubeside velocity	[ft/s]	3.247

NOTES FROM CALCULATIONS

A - Certified in accordance with the AHRI Forced-Circulation Air-Cooling and Air-Heating Coils Certification Program which is based on AHRI Standard 410 within the Range of Standard Rating Conditions listed in Table 1 of the Standard. Certified units may be found in the AHRI Directory at www.ahridirectory.org.

L - Coil rating valid for Heatcraft coils only.

USER NOTES

COILCALC FLUID VERIFICATION

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Telephone		Company	Hoffman & Hoffman, Inc.
Email		Return telephone	9197818011
Project	(116102) Eli Lilly - Building 4 Concord	Email	bennett.funderburk@hoffman-hoffman.com
Savedrun	2654690		

Item/Description RHC-4113C

CONSTRUCTION DATA

Model	5MI0802A - 18 x 21	Connection material	Carbon Steel
Coils per bank	1	Connection type	MPT
Coil duty	Heat-Return Bend	Connection rotation	None
Tube OD [in]	5/8	Connection size [in]	1.50
Fin spacing [in/]	8.000	Connection qty	1
Rows	2	Connection end	Same End
Fin surface	A		
Fin height x length [in]	18.00 x 21.00		
Circuiting	One Sixth		
Tube material [in]	0.035 Copper		
Fin material [in]	0.0095 Aluminum		

THERMODYNAMIC

AIR SIDE			FLUID SIDE		
Face velocity (Standard)	[ft/min]	685.7	Fluid		Water
Air flow (Standard)	[cfm]	1,800	Fouling factor		0
Altitude	[ft]	300.0	Entering fluid temp.	[°F]	130.0
EAT db	[°F]	46.00	Fluid flow	[gpm]	4.900
Fin fouling factor		0			

OPTIONS/SPECIALTIES

Item quantity	1
Casing material	Galvanized Steel
Casing type	Flanged
Coating	None
Hand	Right
Vent / Drain	.50 FPT on Face

RESULTS

CONSTRUCTION			AIR SIDE		
Weight	[lbs]	41.77	Total / Sensible capacity	[MBH]	49.65 / 49.65
Weight with fluid	[lbs]	51.42	LAT db	[°F]	71.44
Face area	[ft²]	2.625	Air pressure drop (Standard)	[in wg]	0.1937
			FLUID SIDE		
			Fluid pressure drop	[ft H2O]	3.419
			Fluid flow rate	[gpm]	4.900
			Leaving fluid temp.	[°F]	109.5
			Internal volume	[in³]	270.4
			Tubeside velocity	[ft/s]	2.947

NOTES FROM CALCULATIONS

A - Certified in accordance with the AHRI Forced-Circulation Air-Cooling and Air-Heating Coils Certification Program which is based on AHRI Standard 410 within the Range of Standard Rating Conditions listed in Table 1 of the Standard. Certified units may be found in the AHRI Directory at www.ahridirectory.org.

L - Coil rating valid for Heatcraft coils only.

USER NOTES

COILCALC FLUID VERIFICATION

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Contact		By	Bennett Funderburk
Telephone		Company	Hoffman & Hoffman, Inc.
Email		Return telephone	9197818011
Project	(116102) Eli Lilly - Building 4 Concord	Email	bennett.funderburk@hoffman-hoffman.com
Savedrun	2654690		

Item/Description RHC-4121, 4213B

CONSTRUCTION DATA

Model	5MI0902A - 15 x 16	Connection material	Carbon Steel
Coils per bank	1	Connection type	MPT
Coil duty	Heat-Return Bend	Connection rotation	None
Tube OD [in]	5/8	Connection size [in]	1.50
Fin spacing [in/]	9.000	Connection qty	1
Rows	2	Connection end	Same End
Fin surface	A		
Fin height x length [in]	15.00 x 16.00		
Circuiting	One Sixth		
Tube material [in]	0.035 Copper		
Fin material [in]	0.0095 Aluminum		

THERMODYNAMIC

AIR SIDE			FLUID SIDE		
Face velocity (Standard) [ft/min]	660.0		Fluid		Water
Air flow (Standard) [cfm]	1,100		Fouling factor		0
Altitude [ft]	300.0		Entering fluid temp. [°F]		130.0
EAT db [°F]	46.00		Fluid flow [gpm]		3.000
Fin fouling factor	0				

OPTIONS/SPECIALTIES

Item quantity	2
Casing material	Galvanized Steel
Casing type	Flanged
Coating	None
Hand	Right
Vent / Drain	.50 FPT on Face

RESULTS

CONSTRUCTION			AIR SIDE		
Weight [lbs]	31.22		Total / Sensible capacity [MBH]		31.47 / 31.47
Weight with fluid [lbs]	38.59		LAT db [°F]		72.38
Face area [ft²]	1.667		Air pressure drop (Standard) [in wg]		0.1993
			FLUID SIDE		
			Fluid pressure drop [ft H2O]		1.211
			Fluid flow rate [gpm]		3.000
			Leaving fluid temp. [°F]		108.8
			Internal volume [in³]		206.3
			Tubeside velocity [ft/s]		1.804

NOTES FROM CALCULATIONS

A - Certified in accordance with the AHRI Forced-Circulation Air-Cooling and Air-Heating Coils Certification Program which is based on AHRI Standard 410 within the Range of Standard Rating Conditions listed in Table 1 of the Standard. Certified units may be found in the AHRI Directory at www.ahridirectory.org.

L - Coil rating valid for Heatcraft coils only.

USER NOTES

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Telephone		Company	Hoffman & Hoffman, Inc.
Email		Return telephone	9197818011
Project	(116102) Eli Lilly - Building 4 Concord	Email	bennett.funderburk@hoffman-hoffman.com
Savedrun	2654690		

Item/Description RHC-4123B

CONSTRUCTION DATA

Model	5MI0702B - 24 x 24	Connection material	Carbon Steel
Coils per bank	1	Connection type	MPT
Coil duty	Heat-Return Bend	Connection rotation	None
Tube OD [in]	5/8	Connection size [in]	1.50
Fin spacing [in/]	7.000	Connection qty	1
Rows	2	Connection end	Same End
Fin surface	B		
Fin height x length [in]	24.00 x 24.00		
Circuiting	One Sixth		
Tube material [in]	0.035 Copper		
Fin material [in]	0.0095 Aluminum		

THERMODYNAMIC

AIR SIDE			FLUID SIDE		
Face velocity (Standard)	[ft/min]	612.5	Fluid		Water
Air flow (Standard)	[cfm]	2,450	Fouling factor		0
Altitude	[ft]	300.0	Entering fluid temp.	[°F]	130.0
EAT db	[°F]	46.00	Fluid flow	[gpm]	6.700
Fin fouling factor		0			

OPTIONS/SPECIALTIES

Item quantity	1
Casing material	Galvanized Steel
Casing type	Flanged
Coating	None
Hand	Right
Vent / Drain	.50 FPT on Face

RESULTS

CONSTRUCTION			AIR SIDE		
Weight	[lbs]	56.32	Total / Sensible capacity	[MBH]	69.23 / 69.23
Weight with fluid	[lbs]	70.27	LAT db	[°F]	72.06
Face area	[ft²]	4.000	Air pressure drop (Standard)	[in wg]	0.2467
			FLUID SIDE		
			Fluid pressure drop	[ft H2O]	2.880
			Fluid flow rate	[gpm]	6.700
			Leaving fluid temp.	[°F]	109.1
			Internal volume	[in³]	390.9
			Tubeside velocity	[ft/s]	2.686

NOTES FROM CALCULATIONS

A - Certified in accordance with the AHRI Forced-Circulation Air-Cooling and Air-Heating Coils Certification Program which is based on AHRI Standard 410 within the Range of Standard Rating Conditions listed in Table 1 of the Standard. Certified units may be found in the AHRI Directory at www.ahridirectory.org.

L - Coil rating valid for Heatcraft coils only.

USER NOTES

COILCALC FLUID VERIFICATION

Customer		Date	1/5/2023 4:48:41 PM
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Telephone		Company	Hoffman & Hoffman, Inc.
Email		Return telephone	9197818011
Project	(116102) Eli Lilly - Building 4 Concord	Email	bennett.funderburk@hoffman-hoffman.com
Savedrun	2654690		

Item/Description RHC-4211B

CONSTRUCTION DATA

Model	5MI0802A - 18 x 24	Connection material	Carbon Steel
Coils per bank	1	Connection type	MPT
Coil duty	Heat-Return Bend	Connection rotation	None
Tube OD [in]	5/8	Connection size [in]	1.50
Fin spacing [in/]	8.000	Connection qty	1
Rows	2	Connection end	Same End
Fin surface	A		
Fin height x length [in]	18.00 x 24.00		
Circuiting	One Sixth		
Tube material [in]	0.035 Copper		
Fin material [in]	0.0095 Aluminum		

THERMODYNAMIC

AIR SIDE			FLUID SIDE		
Face velocity (Standard)	[ft/min]	700.0	Fluid		Water
Air flow (Standard)	[cfm]	2,100	Fouling factor		0
Altitude	[ft]	300.0	Entering fluid temp.	[°F]	130.0
EAT db	[°F]	46.00	Fluid flow	[gpm]	5.700
Fin fouling factor		0			

OPTIONS/SPECIALTIES

Item quantity	1
Casing material	Galvanized Steel
Casing type	Flanged
Coating	None
Hand	Right
Vent / Drain	.50 FPT on Face

RESULTS

CONSTRUCTION			AIR SIDE		
Weight	[lbs]	45.45	Total / Sensible capacity	[MBH]	58.09 / 58.09
Weight with fluid	[lbs]	56.01	LAT db	[°F]	71.51
Face area	[ft²]	3.000	Air pressure drop (Standard)	[in wg]	0.2006
			FLUID SIDE		
			Fluid pressure drop	[ft H2O]	4.736
			Fluid flow rate	[gpm]	5.700
			Leaving fluid temp.	[°F]	109.4
			Internal volume	[in³]	296.0
			Tubeside velocity	[ft/s]	3.428

NOTES FROM CALCULATIONS

A - Certified in accordance with the AHRI Forced-Circulation Air-Cooling and Air-Heating Coils Certification Program which is based on AHRI Standard 410 within the Range of Standard Rating Conditions listed in Table 1 of the Standard. Certified units may be found in the AHRI Directory at www.ahridirectory.org.

L - Coil rating valid for Heatcraft coils only.

USER NOTES

COILCALC FLUID VERIFICATION

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Telephone		Company	Hoffman & Hoffman, Inc.
Email		Return telephone	9197818011
Project	(116102) Eli Lilly - Building 4 Concord	Email	bennett.funderburk@hoffman-hoffman.com
Savedrun	2654690		

Item/Description RHC-4211C

CONSTRUCTION DATA

Model	5MI0802A - 24 x 24	Connection material	Carbon Steel
Coils per bank	1	Connection type	MPT
Coil duty	Heat-Return Bend	Connection rotation	None
Tube OD [in]	5/8	Connection size [in]	1.50
Fin spacing [in/]	8.000	Connection qty	1
Rows	2	Connection end	Same End
Fin surface	A		
Fin height x length [in]	24.00 x 24.00		
Circuiting	One Sixth		
Tube material [in]	0.035 Copper		
Fin material [in]	0.0095 Aluminum		

THERMODYNAMIC

AIR SIDE			FLUID SIDE		
Face velocity (Standard)	[ft/min]	675.0	Fluid		Water
Air flow (Standard)	[cfm]	2,700	Fouling factor		0
Altitude	[ft]	300.0	Entering fluid temp.	[°F]	130.0
EAT db	[°F]	46.00	Fluid flow	[gpm]	7.300
Fin fouling factor		0			

OPTIONS/SPECIALTIES

Item quantity	1
Casing material	Galvanized Steel
Casing type	Flanged
Coating	None
Hand	Right
Vent / Drain	.50 FPT on Face

RESULTS

CONSTRUCTION			AIR SIDE		
Weight	[lbs]	57.48	Total / Sensible capacity	[MBH]	74.85 / 74.85
Weight with fluid	[lbs]	71.43	LAT db	[°F]	71.56
Face area	[ft²]	4.000	Air pressure drop (Standard)	[in wg]	0.1887
			FLUID SIDE		
			Fluid pressure drop	[ft H2O]	3.352
			Fluid flow rate	[gpm]	7.300
			Leaving fluid temp.	[°F]	109.3
			Internal volume	[in³]	390.9
			Tube side velocity	[ft/s]	2.927

NOTES FROM CALCULATIONS

A - Certified in accordance with the AHRI Forced-Circulation Air-Cooling and Air-Heating Coils Certification Program which is based on AHRI Standard 410 within the Range of Standard Rating Conditions listed in Table 1 of the Standard. Certified units may be found in the AHRI Directory at www.ahridirectory.org.

L - Coil rating valid for Heatcraft coils only.

USER NOTES

COILCALC FLUID VERIFICATION

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Telephone		Company	Hoffman & Hoffman, Inc.
Email		Return telephone	9197818011
Project	(116102) Eli Lilly - Building 4 Concord	Email	bennett.funderburk@hoffman-hoffman.com
Savedrun	2654690		

Item/Description RHC-4113A

CONSTRUCTION DATA

Model	3MI0702B - 10 x 12	Connection material	Carbon Steel
Coils per bank	1	Connection type	MPT
Coil duty	Heat-Return Bend	Connection rotation	None
Tube OD	[in] 3/8	Connection size	[in] 1.50
Fin spacing	[in/] 7.000	Connection qty	1
Rows	2	Connection end	Same End
Fin surface	B		
Fin height x length	[in] 10.00 x 12.00		
Circuiting	One Sixth		
Tube material	[in] 0.030 Copper		
Fin material	[in] 0.0095 Aluminum		

THERMODYNAMIC

AIR SIDE			FLUID SIDE		
Face velocity (Standard)	[ft/min]	600.0	Fluid		Water
Air flow (Standard)	[cfm]	500.0	Fouling factor		0
Altitude	[ft]	300.0	Entering fluid temp.	[°F]	130.0
EAT db	[°F]	46.00	Fluid flow	[gpm]	1.400
Fin fouling factor		0			

OPTIONS/SPECIALTIES

Item quantity	1
Casing material	Galvanized Steel
Casing type	Flanged
Coating	None
Hand	Right
Vent / Drain	.50 FPT on Face

RESULTS

CONSTRUCTION			AIR SIDE		
Weight	[lbs]	17.11	Total / Sensible capacity	[MBH]	14.11 / 14.11
Weight with fluid	[lbs]	20.52	LAT db	[°F]	72.02
Face area	[ft²]	0.8333	Air pressure drop (Standard)	[in wg]	0.1749
			FLUID SIDE		
			Fluid pressure drop	[ft H2O]	3.824
			Fluid flow rate	[gpm]	1.400
			Leaving fluid temp.	[°F]	109.6
			Internal volume	[in³]	95.71
			Tubeside velocity	[ft/s]	2.588

NOTES FROM CALCULATIONS

C - Coil is NOT certified by AHRI. Coil is within the scope of the AHRI Forced-Circulation Air-Cooling and Air-Heating Coils Certification Program.

L - Coil rating valid for Heatcraft coils only.

USER NOTES

COILCALC FLUID VERIFICATION

Customer		Date	1/5/2023 4:48:41 PM
Contact		By	Bennett Funderburk
Telephone		Company	Hoffman & Hoffman, Inc.
Email		Return telephone	9197818011
Project	(116102) Eli Lilly - Building 4 Concord	Email	bennett.funderburk@hoffman-hoffman.com
Savedrun	2654690		

Item/Description RHC-4117

CONSTRUCTION DATA

Model	3MI0702B - 10 x 13	Connection material	Carbon Steel
Coils per bank	1	Connection type	MPT
Coil duty	Heat-Return Bend	Connection rotation	None
Tube OD [in]	3/8	Connection size [in]	1.50
Fin spacing [in/]	7.000	Connection qty	1
Rows	2	Connection end	Same End
Fin surface	B		
Fin height x length [in]	10.00 x 13.00		
Circuiting	One Sixth		
Tube material [in]	0.030 Copper		
Fin material [in]	0.0095 Aluminum		

THERMODYNAMIC

AIR SIDE			FLUID SIDE		
Face velocity (Standard) [ft/min]	664.6		Fluid		Water
Air flow (Standard) [cfm]	600.0		Fouling factor		0
Altitude [ft]	300.0		Entering fluid temp. [°F]		130.0
EAT db [°F]	46.00		Fluid flow [gpm]		1.700
Fin fouling factor	0				

OPTIONS/SPECIALTIES

Item quantity	1
Casing material	Galvanized Steel
Casing type	Flanged
Coating	None
Hand	Right
Vent / Drain	.50 FPT on Face

RESULTS

CONSTRUCTION			AIR SIDE		
Weight [lbs]	17.79		Total / Sensible capacity [MBH]		16.47 / 16.47
Weight with fluid [lbs]	21.21		LAT db [°F]		71.31
Face area [ft²]	0.9028		Air pressure drop (Standard) [in wg]		0.2087
			FLUID SIDE		
			Fluid pressure drop [ft H2O]		5.503
			Fluid flow rate [gpm]		1.700
			Leaving fluid temp. [°F]		110.4
			Internal volume [in³]		95.71
			Tubeside velocity [ft/s]		3.143

NOTES FROM CALCULATIONS

C - Coil is NOT certified by AHRI. Coil is within the scope of the AHRI Forced-Circulation Air-Cooling and Air-Heating Coils Certification Program.

L - Coil rating valid for Heatcraft coils only.

USER NOTES

COILCALC FLUID VERIFICATION

Customer	Date	1/5/2023 4:48:41 PM
Contact	By	Bennett Funderburk
Telephone	Company	Hoffman & Hoffman, Inc.
Email	Return telephone	9197818011
Project (116102) Eli Lilly - Building 4 Concord	Email	bennett.funderburk@hoffman-hoffman.com
Savedrun 2654690		

Item/Description RHC-4124

CONSTRUCTION DATA

Model	3MI0702B - 12 x 13	Connection material	Carbon Steel
Coils per bank	1	Connection type	MPT
Coil duty	Heat-Return Bend	Connection rotation	None
Tube OD [in]	3/8	Connection size [in]	1.50
Fin spacing [in/]	7.000	Connection qty	1
Rows	2	Connection end	Same End
Fin surface	B		
Fin height x length [in]	12.00 x 13.00		
Circuiting	One Sixth		
Tube material [in]	0.030 Copper		
Fin material [in]	0.0095 Aluminum		

THERMODYNAMIC

AIR SIDE			FLUID SIDE		
Face velocity (Standard)	[ft/min]	646.2	Fluid		Water
Air flow (Standard)	[cfm]	700.0	Fouling factor		0
Altitude	[ft]	300.0	Entering fluid temp.	[°F]	130.0
EAT db	[°F]	46.00	Fluid flow	[gpm]	1.900
Fin fouling factor		0			

OPTIONS/SPECIALTIES

Item quantity	1
Casing material	Galvanized Steel
Casing type	Flanged
Coating	None
Hand	Right
Vent / Drain	.50 FPT on Face

RESULTS

CONSTRUCTION			AIR SIDE		
Weight	[lbs]	20.33	Total / Sensible capacity	[MBH]	19.50 / 19.50
Weight with fluid	[lbs]	24.34	LAT db	[°F]	71.69
Face area	[ft²]	1.083	Air pressure drop (Standard)	[in wg]	0.1988
			FLUID SIDE		
			Fluid pressure drop	[ft H2O]	7.107
			Fluid flow rate	[gpm]	1.900
			Leaving fluid temp.	[°F]	109.2
			Internal volume	[in³]	112.3
			Tubeside velocity	[ft/s]	3.513

NOTES FROM CALCULATIONS

C - Coil is NOT certified by AHRI. Coil is within the scope of the AHRI Forced-Circulation Air-Cooling and Air-Heating Coils Certification Program.

L - Coil rating valid for Heatcraft coils only.

USER NOTES

COILCALC FLUID VERIFICATION

Customer		Date	1/5/2023 4:48:41 PM
Contact		By	Bennett Funderburk
Telephone		Company	Hoffman & Hoffman, Inc.
Email		Return telephone	9197818011
Project	(116102) Eli Lilly - Building 4 Concord	Email	bennett.funderburk@hoffman-hoffman.com
Savedrun	2654690		

Item/Description RHC-4115

CONSTRUCTION DATA

Model	3MQ0602C - 8 x 8	Connection material	Carbon Steel
Coils per bank	1	Connection type	MPT
Coil duty	Heat-Return Bend	Connection rotation	None
Tube OD [in]	3/8	Connection size [in]	1.50
Fin spacing [in/]	6.000	Connection qty	1
Rows	2	Connection end	Same End
Fin surface	C		
Fin height x length [in]	8.000 x 8.000		
Circuiting	Quarter		
Tube material [in]	0.030 Copper		
Fin material [in]	0.0095 Aluminum		

THERMODYNAMIC

AIR SIDE

Face velocity (Standard)	[ft/min]	562.5
Air flow (Standard)	[cfm]	250.0
Altitude	[ft]	300.0
EAT db	[°F]	46.00
Fin fouling factor		0

FLUID SIDE

Fluid	Water
Fouling factor	0
Entering fluid temp.	[°F] 130.0
Fluid flow	[gpm] 0.7000

OPTIONS/SPECIALTIES

Item quantity	1
Casing material	Galvanized Steel
Casing type	Flanged
Coating	None
Hand	Right
Vent / Drain	.50 FPT on Face

RESULTS

CONSTRUCTION

Weight	[lbs]	12.00
Weight with fluid	[lbs]	14.62
Face area	[ft²]	0.4444

AIR SIDE

Total / Sensible capacity	[MBH]	7.248 / 7.248
LAT db	[°F]	72.73
Air pressure drop (Standard)	[in wg]	0.1912

FLUID SIDE

Fluid pressure drop	[ft H2O]	0.7281
Fluid flow rate	[gpm]	0.7000
Leaving fluid temp.	[°F]	109.1
Internal volume	[in³]	73.59
Tubeside velocity	[ft/s]	1.294

NOTES FROM CALCULATIONS

C - Coil is NOT certified by AHRI. Coil is within the scope of the AHRI Forced-Circulation Air-Cooling and Air-Heating Coils Certification Program.

L - Coil rating valid for Heatcraft coils only.

USER NOTES

COILCALC FLUID VERIFICATION

Customer	Date	1/5/2023 4:48:41 PM
Contact	By	Bennett Funderburk
Telephone	Company	Hoffman & Hoffman, Inc.
Email	Return telephone	9197818011
Project (116102) Eli Lilly - Building 4 Concord	Email	bennett.funderburk@hoffman-hoffman.com
Savedrun 2654690		

Item/Description RHC-4211A

CONSTRUCTION DATA

Model	3MI1201C - 14 x 14	Connection material	Carbon Steel
Coils per bank	1	Connection type	MPT
Coil duty	Heat-Return Bend	Connection rotation	None
Tube OD [in]	3/8	Connection size [in]	1.50
Fin spacing [in/]	12.00	Connection qty	1
Rows	1	Connection end	Same End
Fin surface	C		
Fin height x length [in]	14.00 x 14.00		
Circuiting	One Sixth		
Tube material [in]	0.030 Copper		
Fin material [in]	0.0095 Aluminum		

THERMODYNAMIC

AIR SIDE			FLUID SIDE		
Face velocity (Standard)	[ft/min]	624.5	Fluid		Water
Air flow (Standard)	[cfm]	850.0	Fouling factor		0
Altitude	[ft]	300.0	Entering fluid temp.	[°F]	130.0
EAT db	[°F]	46.00	Fluid flow	[gpm]	2.300
Fin fouling factor		0			

OPTIONS/SPECIALTIES

Item quantity	1
Casing material	Galvanized Steel
Casing type	Flanged
Coating	None
Hand	Right
Vent / Drain	.50 FPT on Face

RESULTS

CONSTRUCTION			AIR SIDE		
Weight	[lbs]	21.79	Total / Sensible capacity	[MBH]	23.18 / 23.18
Weight with fluid	[lbs]	25.80	LAT db	[°F]	71.14
Face area	[ft²]	1.361	Air pressure drop (Standard)	[in wg]	0.1824
			FLUID SIDE		
			Fluid pressure drop	[ft H2O]	5.793
			Fluid flow rate	[gpm]	2.300
			Leaving fluid temp.	[°F]	109.6
			Internal volume	[in³]	112.3
			Tubeside velocity	[ft/s]	4.252

NOTES FROM CALCULATIONS

C - Coil is NOT certified by AHRI. Coil is within the scope of the AHRI Forced-Circulation Air-Cooling and Air-Heating Coils Certification Program.

L - Coil rating valid for Heatcraft coils only.

USER NOTES

COILCALC FLUID VERIFICATION

Customer		Date	1/5/2023 4:48:41 PM
Contact		By	Bennett Funderburk
Telephone		Company	Hoffman & Hoffman, Inc.
Email		Return telephone	9197818011
Project	(116102) Eli Lilly - Building 4 Concord	Email	bennett.funderburk@hoffman-hoffman.com
Savedrun	2654690		

Item/Description RHC-4213A

CONSTRUCTION DATA

Model	3MQ0702B - 8 x 12	Connection material	Carbon Steel
Coils per bank	1	Connection type	MPT
Coil duty	Heat-Return Bend	Connection rotation	None
Tube OD	[in] 3/8	Connection size	[in] 1.50
Fin spacing	[in/] 7.000	Connection qty	1
Rows	2	Connection end	Same End
Fin surface	B		
Fin height x length	[in] 8.000 x 12.00		
Circuiting	Quarter		
Tube material	[in] 0.030 Copper		
Fin material	[in] 0.0095 Aluminum		

THERMODYNAMIC

AIR SIDE			FLUID SIDE		
Face velocity (Standard)	[ft/min]	600.0	Fluid		Water
Air flow (Standard)	[cfm]	400.0	Fouling factor		0
Altitude	[ft]	300.0	Entering fluid temp.	[°F]	130.0
EAT db	[°F]	46.00	Fluid flow	[gpm]	1.100
Fin fouling factor		0			

OPTIONS/SPECIALTIES

Item quantity	1
Casing material	Galvanized Steel
Casing type	Flanged
Coating	None
Hand	Right
Vent / Drain	.50 FPT on Face

RESULTS

CONSTRUCTION			AIR SIDE		
Weight	[lbs]	14.62	Total / Sensible capacity	[MBH]	11.02 / 11.02
Weight with fluid	[lbs]	17.45	LAT db	[°F]	71.41
Face area	[ft²]	0.6667	Air pressure drop (Standard)	[in wg]	0.1749
			FLUID SIDE		
			Fluid pressure drop	[ft H2O]	1.815
			Fluid flow rate	[gpm]	1.100
			Leaving fluid temp.	[°F]	109.7
			Internal volume	[in³]	79.15
			Tubeside velocity	[ft/s]	2.034

NOTES FROM CALCULATIONS

C - Coil is NOT certified by AHRI. Coil is within the scope of the AHRI Forced-Circulation Air-Cooling and Air-Heating Coils Certification Program.

L - Coil rating valid for Heatcraft coils only.

USER NOTES

COILCALC FLUID VERIFICATION

Customer		Date	1/5/2023 4:48:41 PM
Contact		By	Bennett Funderburk
Telephone		Company	Hoffman & Hoffman, Inc.
Email		Return telephone	9197818011
Project	(116102) Eli Lilly - Building 4 Concord	Email	bennett.funderburk@hoffman-hoffman.com
Savedrun	2654690		

Item/Description RHC-4910A

CONSTRUCTION DATA

Model	5MQ1101B - 45 x 54	Connection material	Carbon Steel
Coils per bank	1	Connection type	MPT
Coil duty	Heat-Return Bend	Connection rotation	None
Tube OD [in]	5/8	Connection size [in]	1.50
Fin spacing [in/]	11.00	Connection qty	1
Rows	1	Connection end	Same End
Fin surface	B		
Fin height x length [in]	45.00 x 54.00		
Circuiting	Quarter		
Tube material [in]	0.035 Copper		
Fin material [in]	0.0095 Aluminum		

THERMODYNAMIC

AIR SIDE			FLUID SIDE		
Face velocity (Standard)	[ft/min]	693.0	Fluid		Water
Air flow (Standard)	[cfm]	11,695	Fouling factor		0
Altitude	[ft]	300.0	Entering fluid temp.	[°F]	130.0
EAT db	[°F]	46.00	Fluid flow	[gpm]	25.30
Fin fouling factor		0			

OPTIONS/SPECIALTIES

Item quantity	1
Casing material	Galvanized Steel
Casing type	Flanged
Coating	None
Hand	Right
Vent / Drain	.50 FPT on Face

RESULTS

CONSTRUCTION			AIR SIDE		
Weight	[lbs]	124.8	Total / Sensible capacity	[MBH]	267.0 / 267.0
Weight with fluid	[lbs]	151.2	LAT db	[°F]	67.05
Face area	[ft²]	16.88	Air pressure drop (Standard)	[in wg]	0.2223
			FLUID SIDE		
			Fluid pressure drop	[ft H2O]	3.858
			Fluid flow rate	[gpm]	25.30
			Leaving fluid temp.	[°F]	108.7
			Internal volume	[in³]	737.5
			Tubeside velocity	[ft/s]	3.804

NOTES FROM CALCULATIONS

A - Certified in accordance with the AHRI Forced-Circulation Air-Cooling and Air-Heating Coils Certification Program which is based on AHRI Standard 410 within the Range of Standard Rating Conditions listed in Table 1 of the Standard. Certified units may be found in the AHRI Directory at www.ahridirectory.org.

K - Face and row spacing on 1.5 inch centers.

L - Coil rating valid for Heatcraft coils only.

USER NOTES

COILCALC FLUID VERIFICATION

Customer		Date	1/5/2023 4:48:42 PM
Contact		By	Bennett Funderburk
Telephone		Company	Hoffman & Hoffman, Inc.
Email		Return telephone	9197818011
Project	(116102) Eli Lilly - Building 4 Concord	Email	bennett.funderburk@hoffman-hoffman.com
Savedrun	2654690		

Item/Description RHC-4910B

CONSTRUCTION DATA

Model	5MQ1101B - 45 x 57	Connection material	Carbon Steel
Coils per bank	1	Connection type	MPT
Coil duty	Heat-Return Bend	Connection rotation	None
Tube OD [in]	5/8	Connection size [in]	1.50
Fin spacing [in/]	11.00	Connection qty	1
Rows	1	Connection end	Same End
Fin surface	B		
Fin height x length [in]	45.00 x 57.00		
Circuiting	Quarter		
Tube material [in]	0.035 Copper		
Fin material [in]	0.0095 Aluminum		

THERMODYNAMIC

AIR SIDE			FLUID SIDE		
Face velocity (Standard)	[ft/min]	693.1	Fluid		Water
Air flow (Standard)	[cfm]	12,345	Fouling factor		0
Altitude	[ft]	300.0	Entering fluid temp.	[°F]	130.0
EAT db	[°F]	46.00	Fluid flow	[gpm]	26.70
Fin fouling factor		0			

OPTIONS/SPECIALTIES

Item quantity	1
Casing material	Galvanized Steel
Casing type	Flanged
Coating	None
Hand	Right
Vent / Drain	.50 FPT on Face

RESULTS

CONSTRUCTION			AIR SIDE		
Weight	[lbs]	129.5	Total / Sensible capacity	[MBH]	283.4 / 283.4
Weight with fluid	[lbs]	156.4	LAT db	[°F]	67.17
Face area	[ft²]	17.81	Air pressure drop (Standard)	[in wg]	0.2223
			FLUID SIDE		
			Fluid pressure drop	[ft H2O]	4.341
			Fluid flow rate	[gpm]	26.70
			Leaving fluid temp.	[°F]	108.5
			Internal volume	[in³]	753.5
			Tubeside velocity	[ft/s]	4.014

NOTES FROM CALCULATIONS

A - Certified in accordance with the AHRI Forced-Circulation Air-Cooling and Air-Heating Coils Certification Program which is based on AHRI Standard 410 within the Range of Standard Rating Conditions listed in Table 1 of the Standard. Certified units may be found in the AHRI Directory at www.ahridirectory.org.

K - Face and row spacing on 1.5 inch centers.

L - Coil rating valid for Heatcraft coils only.

USER NOTES

COILCALC FLUID VERIFICATION

Customer	Date	1/5/2023 4:48:42 PM
Contact	By	Bennett Funderburk
Telephone	Company	Hoffman & Hoffman, Inc.
Email	Return telephone	9197818011
Project (116102) Eli Lilly - Building 4 Concord	Email	bennett.funderburk@hoffman-hoffman.com
Savedrun 2654690		

Item/Description RHC-4910C

CONSTRUCTION DATA

Model	5MQ1001B - 52.5 x 69	Connection material	Carbon Steel
Coils per bank	1	Connection type	MPT
Coil duty	Heat-Return Bend	Connection rotation	None
Tube OD [in]	5/8	Connection size [in]	1.50
Fin spacing [in/]	10.00	Connection qty	1
Rows	1	Connection end	Same End
Fin surface	B		
Fin height x length [in]	52.50 x 69.00		
Circuiting	Quarter		
Tube material [in]	0.035 Copper		
Fin material [in]	0.0095 Aluminum		

THERMODYNAMIC

AIR SIDE

Face velocity (Standard)	[ft/min]	695.3
Air flow (Standard)	[cfm]	17,490
Altitude	[ft]	300.0
EAT db	[°F]	46.00
Fin fouling factor		0

FLUID SIDE

Fluid		Water
Fouling factor		0
Entering fluid temp.	[°F]	130.0
Fluid flow	[gpm]	37.60

OPTIONS/SPECIALTIES

Item quantity		1
Casing material		Galvanized Steel
Casing type		Flanged
Coating		None
Hand		Right
Vent / Drain		.50 FPT on Face

RESULTS

CONSTRUCTION

Weight	[lbs]	165.0
Weight with fluid	[lbs]	200.3
Face area	[ft ²]	25.16

AIR SIDE

Total / Sensible capacity	[MBH]	380.7 / 380.7
LAT db	[°F]	66.07
Air pressure drop (Standard)	[in wg]	0.2110

FLUID SIDE

Fluid pressure drop	[ft H2O]	6.606
Fluid flow rate	[gpm]	37.60
Leaving fluid temp.	[°F]	109.5
Internal volume	[in ³]	989.8
Tubeside velocity	[ft/s]	4.522

NOTES FROM CALCULATIONS

A - Certified in accordance with the AHRI Forced-Circulation Air-Cooling and Air-Heating Coils Certification Program which is based on AHRI Standard 410 within the Range of Standard Rating Conditions listed in Table 1 of the Standard. Certified units may be found in the AHRI Directory at www.ahridirectory.org.

K - Face and row spacing on 1.5 inch centers.

L - Coil rating valid for Heatcraft coils only.

USER NOTES

COILCALC FLUID VERIFICATION

Customer		Date	1/5/2023 4:48:42 PM
Contact		By	Bennett Funderburk
Telephone		Company	Hoffman & Hoffman, Inc.
Email		Return telephone	9197818011
Project	(116102) Eli Lilly - Building 4 Concord	Email	bennett.funderburk@hoffman-hoffman.com
Savedrun	2654690		

Item/Description RHC-4910D

CONSTRUCTION DATA

Model	5MQ1001B - 46.5 x 69	Connection material	Carbon Steel
Coils per bank	1	Connection type	MPT
Coil duty	Heat-Return Bend	Connection rotation	None
Tube OD [in]	5/8	Connection size [in]	1.50
Fin spacing [in/]	10.00	Connection qty	1
Rows	1	Connection end	Same End
Fin surface	B		
Fin height x length [in]	46.50 x 69.00		
Circuiting	Quarter		
Tube material [in]	0.035 Copper		
Fin material [in]	0.0095 Aluminum		

THERMODYNAMIC

AIR SIDE			FLUID SIDE		
Face velocity (Standard)	[ft/min]	678.1	Fluid		Water
Air flow (Standard)	[cfm]	15,110	Fouling factor		0
Altitude	[ft]	300.0	Entering fluid temp.	[°F]	130.0
EAT db	[°F]	46.00	Fluid flow	[gpm]	32.70
Fin fouling factor		0			

OPTIONS/SPECIALTIES

Item quantity	1
Casing material	Galvanized Steel
Casing type	Flanged
Coating	None
Hand	Right
Vent / Drain	.50 FPT on Face

RESULTS

CONSTRUCTION			AIR SIDE		
Weight	[lbs]	149.2	Total / Sensible capacity	[MBH]	332.0 / 332.0
Weight with fluid	[lbs]	180.6	LAT db	[°F]	66.26
Face area	[ft²]	22.28	Air pressure drop (Standard)	[in wg]	0.2024
			FLUID SIDE		
			Fluid pressure drop	[ft H2O]	5.842
			Fluid flow rate	[gpm]	32.70
			Leaving fluid temp.	[°F]	109.5
			Internal volume	[in³]	878.2
			Tubeside velocity	[ft/s]	4.370

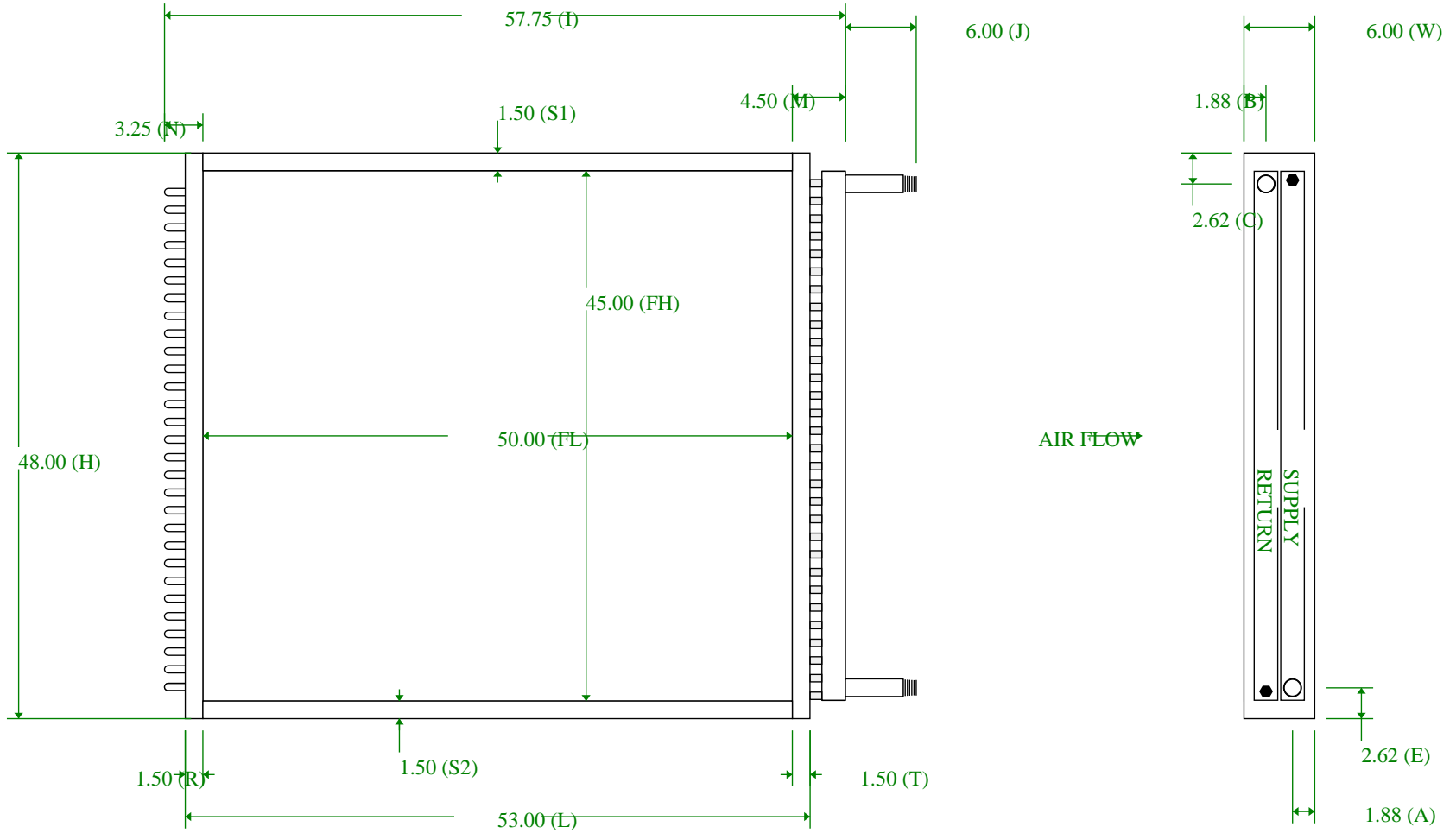
NOTES FROM CALCULATIONS

A - Certified in accordance with the AHRI Forced-Circulation Air-Cooling and Air-Heating Coils Certification Program which is based on AHRI Standard 410 within the Range of Standard Rating Conditions listed in Table 1 of the Standard. Certified units may be found in the AHRI Directory at www.ahridirectory.org.

K - Face and row spacing on 1.5 inch centers.

L - Coil rating valid for Heatcraft coils only.

USER NOTES



General Notes

1. All dimensions are in inches.
2. Manually verifying dimensions is highly recommended.
3. One intermediate tube support fabricated from stock of the same material as the casing will be provided.
4. The supply line should be connected to the lower connection on the leaving air side for counterflow operation.
5. Coils will vent and drain through factory-installed vent and drain fittings when mounted level for horizontal flow.
6. Connection location other than standard could affect vent and drain locations. Consult factory.

Options

Casing type: Flanged
 Fluid: Water
 Vent/Drain: .50 FPT on Face

Materials of Construction

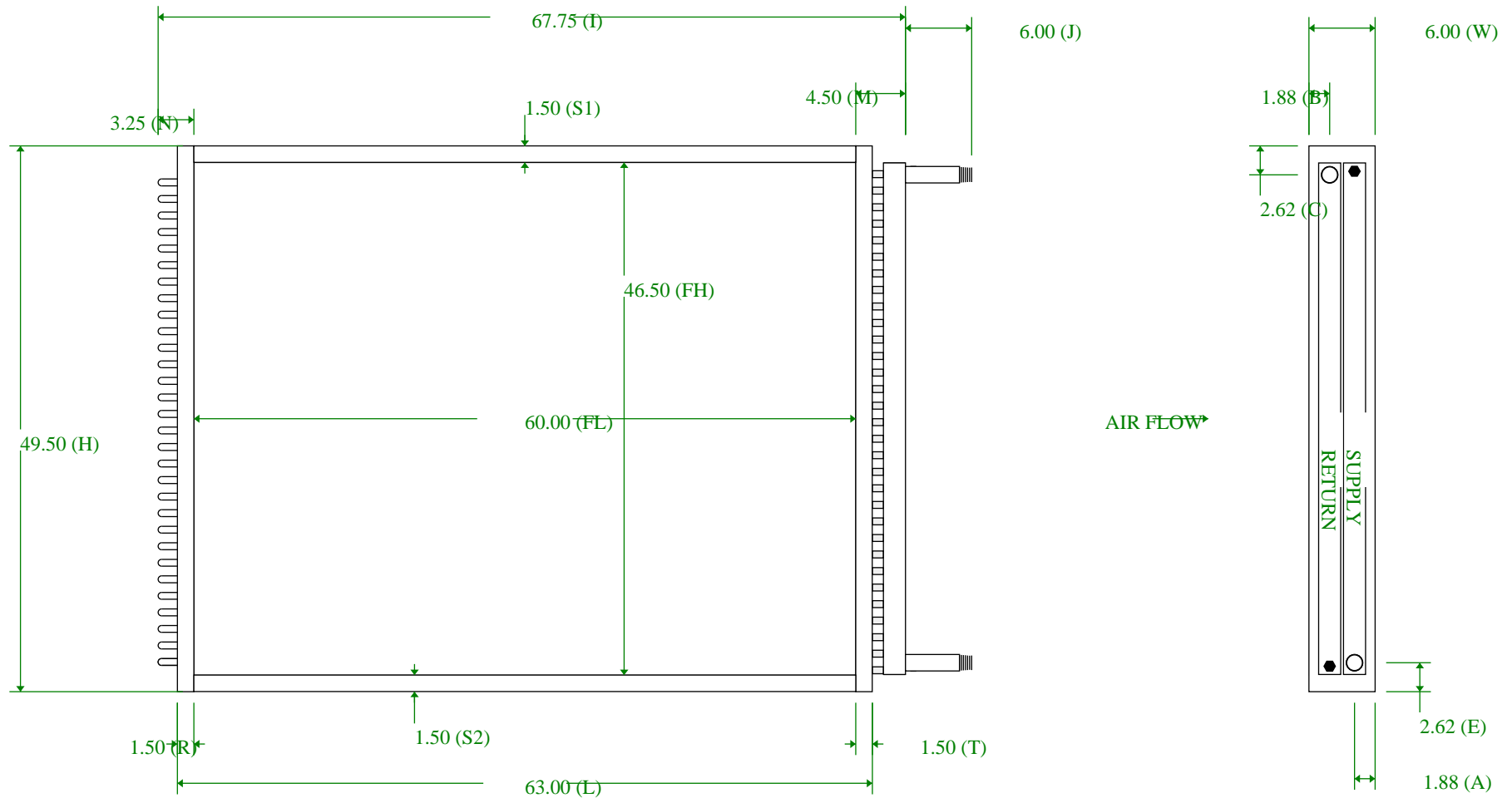
Tube material [in]: 0.035 Copper
 Fin material [in]: 0.0095 Aluminum
 Casing material: Galvanized Steel
 Hand: Right
 Conn. material: Carbon Steel
 Conn. type: MPT
 Conn. qty: 1
 Conn. size [in]: 1.50 Same End
 Weight [lbs]: 118.6



Heatcraft® heat transfer coils



Date: 01-05-2023
Item: RHC-4901A,B,D; RHC-4902B; RHC-4904B,C; RHC-4905B
Quantity: 7
Model: 5MQ1101B - 45 x 50
Project: (116102) Eli Lilly - Building 4 Concord
Saved run ID: 2654690



General Notes

1. All dimensions are in inches.
2. Manually verifying dimensions is highly recommended.
3. One intermediate tube support fabricated from stock of the same material as the casing will be provided.
4. The supply line should be connected to the lower connection on the leaving air side for counterflow operation.
5. Coils will vent and drain through factory-installed vent and drain fittings when mounted level for horizontal flow.
6. Connection location other than standard could affect vent and drain locations. Consult factory.

Options

Casing type: Flanged
 Fluid: Water
 Vent/Drain: .50 FPT on Face

Materials of Construction

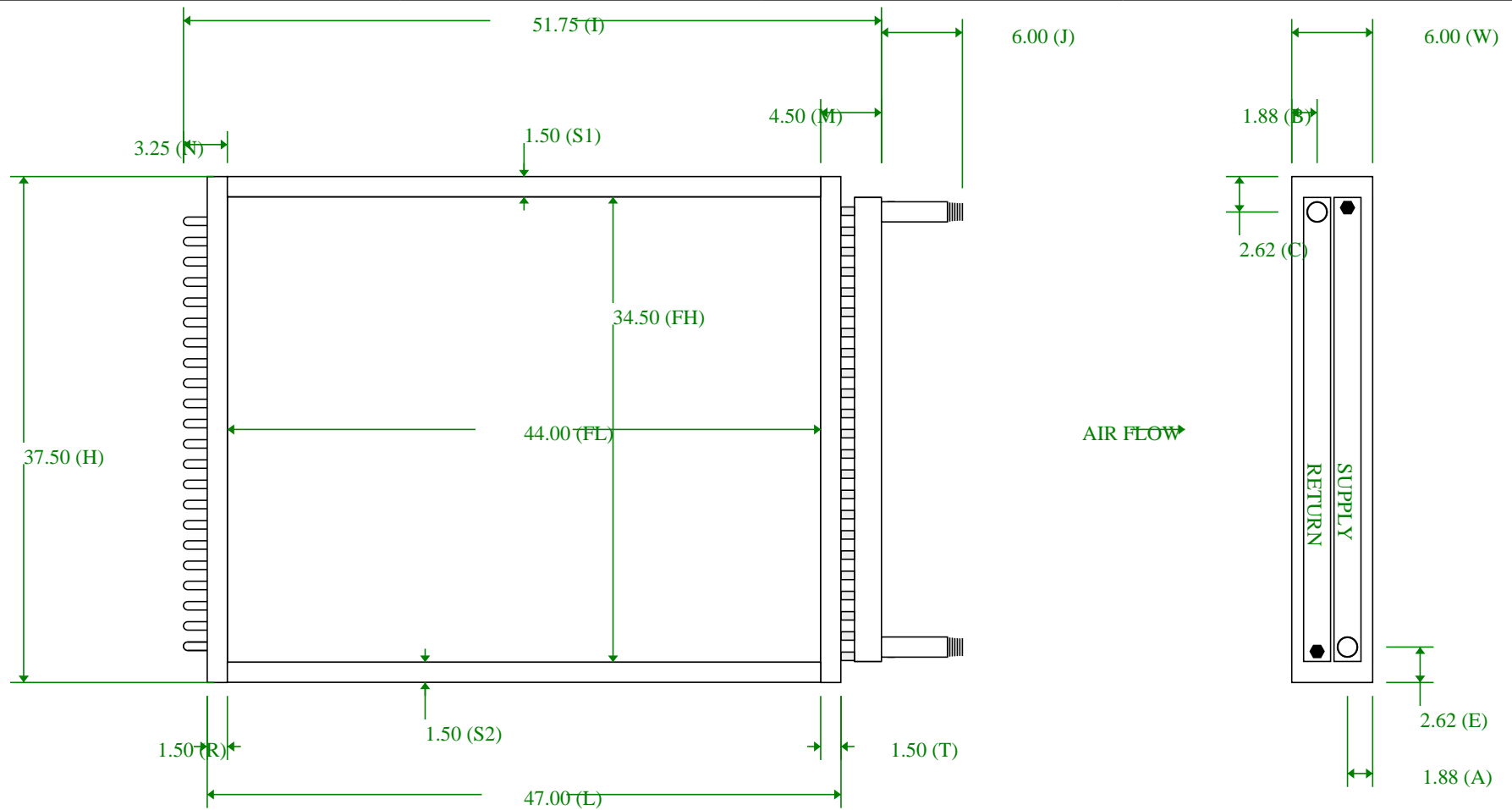
Tube material [in]: 0.035 Copper
 Fin material [in]: 0.0095 Aluminum
 Casing material: Galvanized Steel
 Hand: Right
 Conn. material: Carbon Steel
 Conn. type: MPT
 Conn. qty: 1
 Conn. size [in]: 1.50 Same End
 Weight [lbs]: 135.2



Heatcraft® heat transfer coils



Date: 01-05-2023
Item: RHC-4902A
Quantity: 1
Model: 5MQ1001B - 46.5 x 60
Project: (116102) Eli Lilly - Building 4 Concord
Saved run ID: 2654690



General Notes

1. All dimensions are in inches.
2. Manually verifying dimensions is highly recommended.
3. The supply line should be connected to the lower connection on the leaving air side for counterflow operation.
4. Coils will vent and drain through factory-installed vent and drain fittings when mounted level for horizontal flow.
5. Connection location other than standard could affect vent and drain locations. Consult factory.

Options

Casing type: Flanged
 Fluid: Water
 Vent/Drain: .50 FPT on Face

Materials of Construction

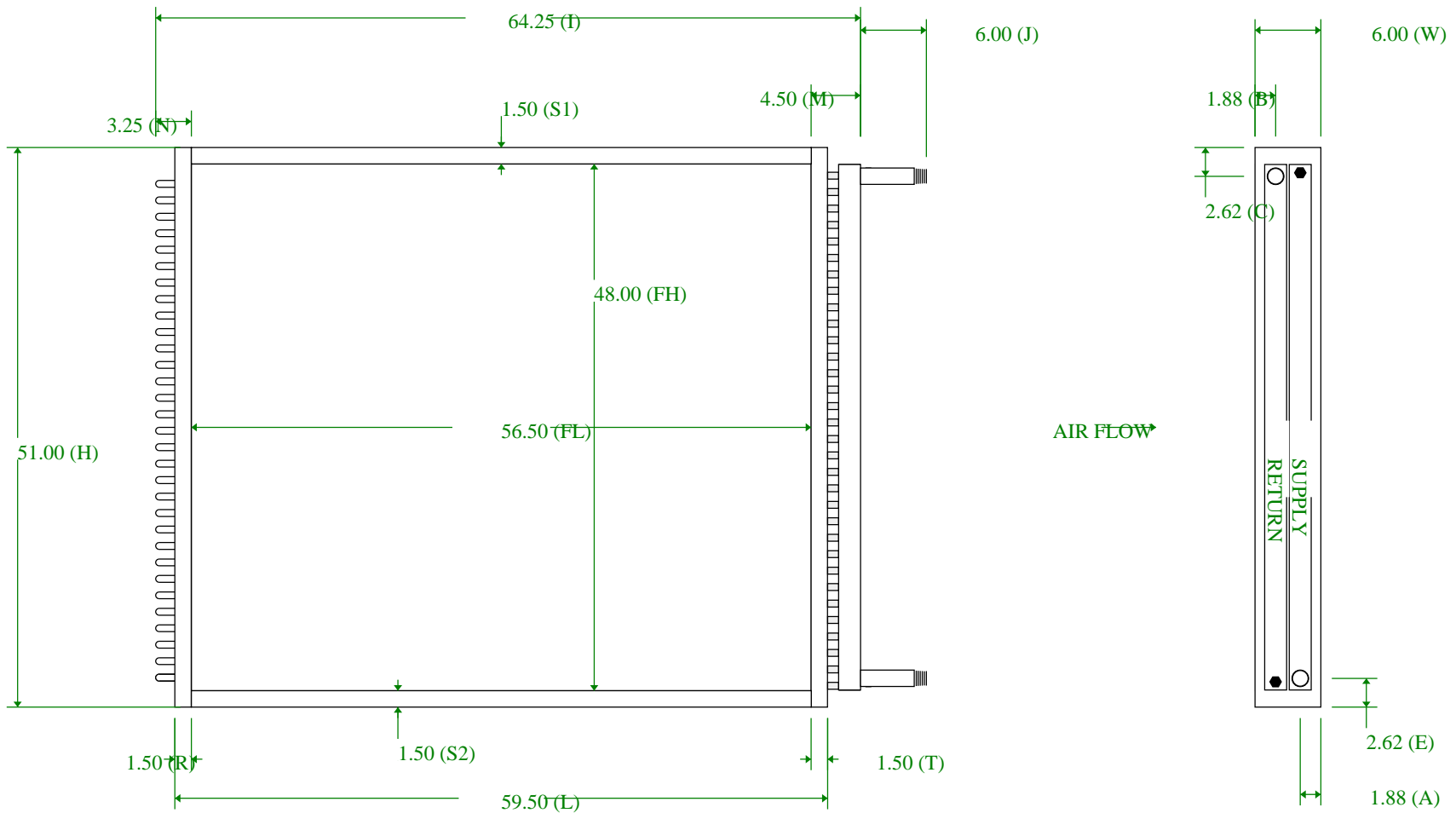
Tube material [in]: 0.035 Copper
 Fin material [in]: 0.0095 Aluminum
 Casing material: Galvanized Steel
 Hand: Right
 Conn. material: Carbon Steel
 Conn. type: MPT
 Conn. qty: 1
 Conn. size [in]: 1.50 Same End
 Weight [lbs]: 86.17



Heatcraft® heat transfer coils



Date: 01-05-2023
Item: RHC-4902C
Quantity: 1
Model: 5MQ1001C - 34.5 x 44
Project: (116102) Eli Lilly - Building 4 Concord
Saved run ID: 2654690



General Notes

1. All dimensions are in inches.
2. Manually verifying dimensions is highly recommended.
3. One intermediate tube support fabricated from stock of the same material as the casing will be provided.
4. The supply line should be connected to the lower connection on the leaving air side for counterflow operation.
5. Coils will vent and drain through factory-installed vent and drain fittings when mounted level for horizontal flow.
6. Connection location other than standard could affect vent and drain locations. Consult factory.

Options

Casing type: Flanged
 Fluid: Water
 Vent/Drain: .50 FPT on Face

Materials of Construction

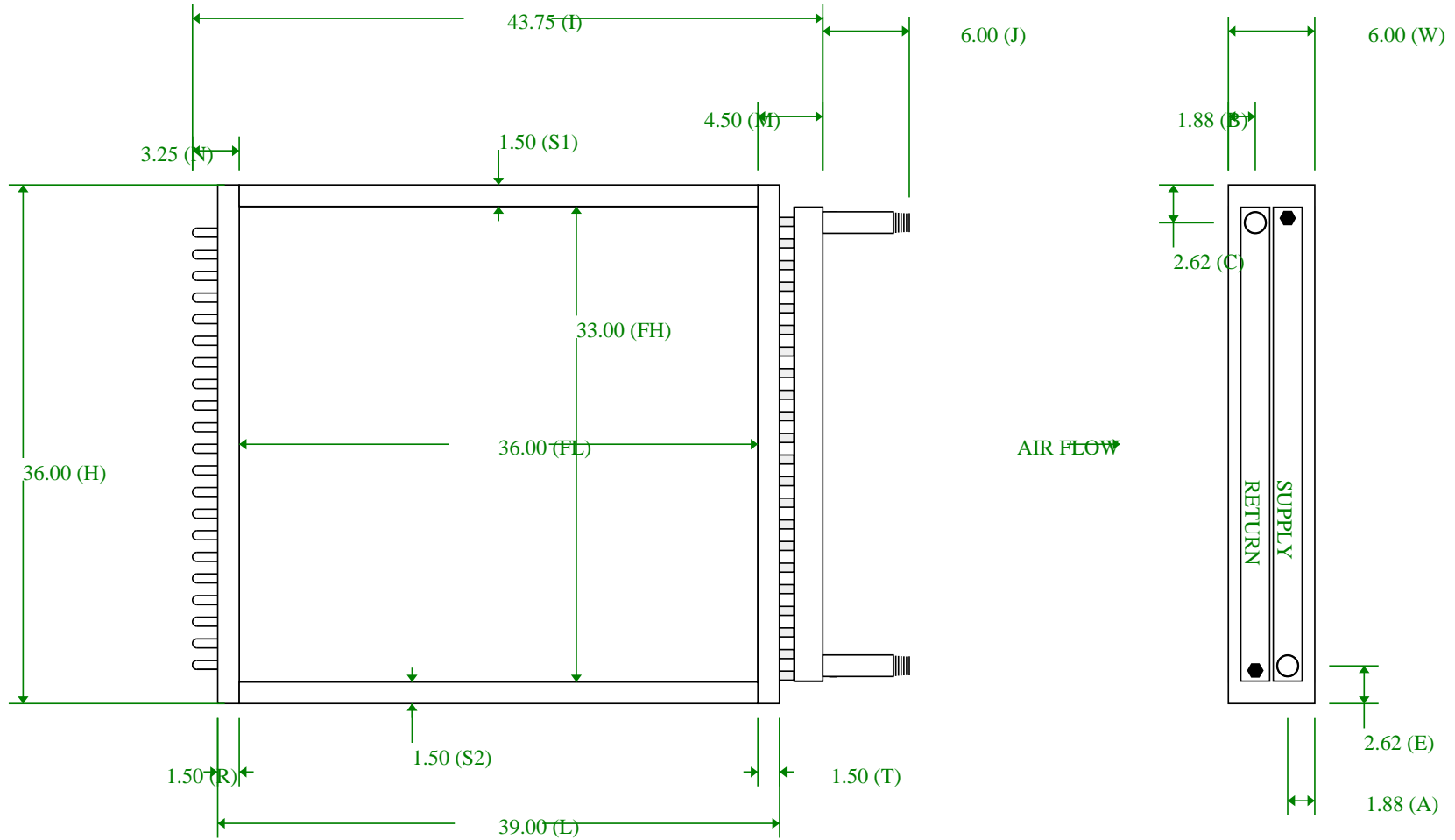
Tube material [in]: 0.035 Copper
 Fin material [in]: 0.0095 Aluminum
 Casing material: Galvanized Steel
 Hand: Right
 Conn. material: Carbon Steel
 Conn. type: MPT
 Conn. qty: 1
 Conn. size [in]: 1.50 Same End
 Weight [lbs]: 133.2



Heatcraft heat transfer coils



Date: 01-05-2023
Item: RHC-4902D
Quantity: 1
Model: 5MQ1001C - 48 x 56.5
Project: (116102) Eli Lilly - Building 4 Concord
Saved run ID: 2654690



General Notes

1. All dimensions are in inches.
2. Manually verifying dimensions is highly recommended.
3. The supply line should be connected to the lower connection on the leaving air side for counterflow operation.
4. Coils will vent and drain through factory-installed vent and drain fittings when mounted level for horizontal flow.
5. Connection location other than standard could affect vent and drain locations. Consult factory.

Options

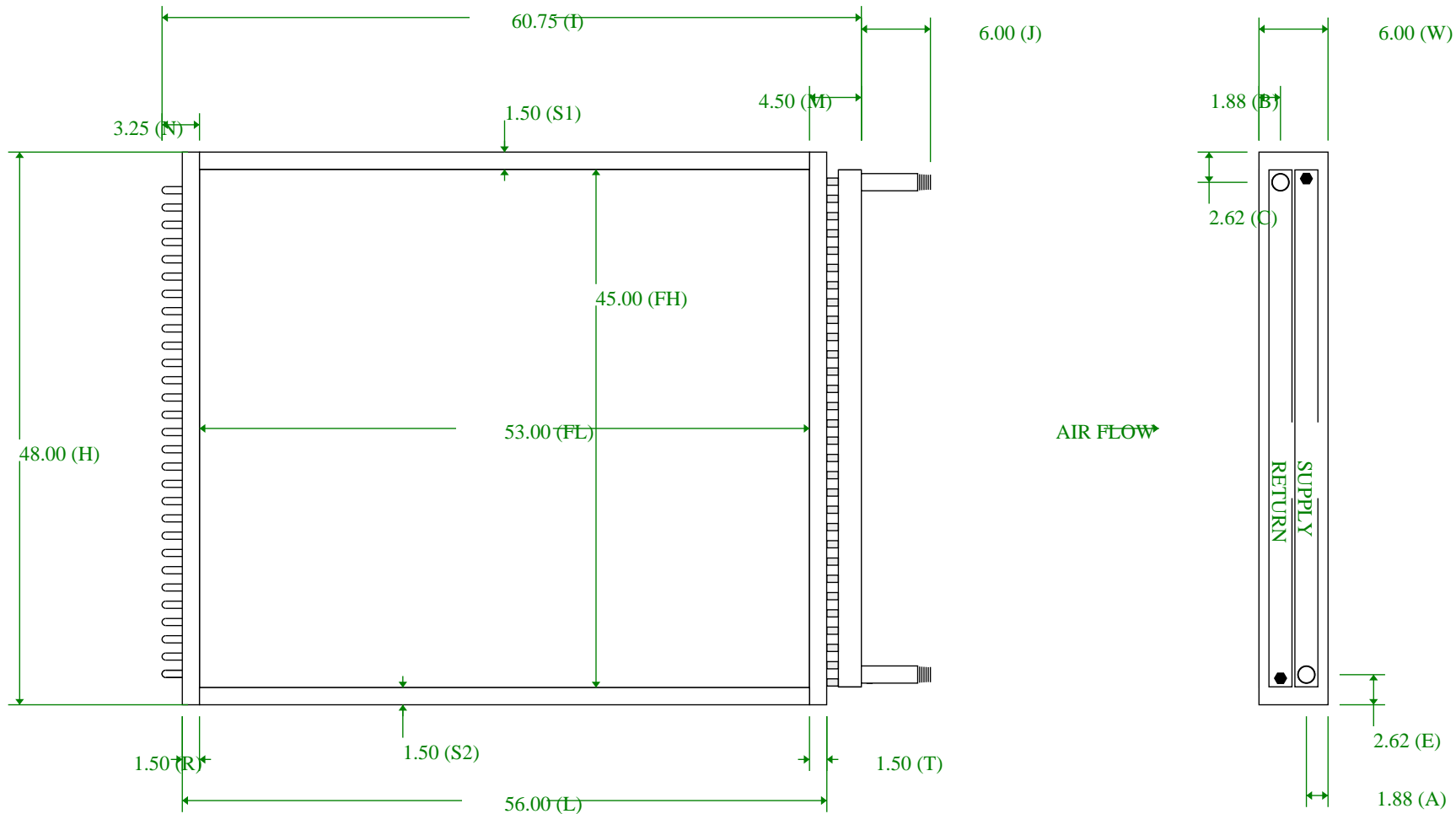
Casing type: Flanged
 Fluid: Water
 Vent/Drain: .50 FPT on Face

Materials of Construction

Tube material [in]: 0.035 Copper
 Fin material [in]: 0.0095 Aluminum
 Casing material: Galvanized Steel
 Hand: Right
 Conn. material: Carbon Steel
 Conn. type: MPT
 Conn. qty: 1
 Conn. size [in]: 1.50 Same End
 Weight [lbs]: 74.58



Date: 01-05-2023
Item: RHC-4903A,B,D
Quantity: 3
Model: 5M1101B - 33 x 36
Project: (116102) Eli Lilly - Building 4 Concord
Saved run ID: 2654690



General Notes

1. All dimensions are in inches.
2. Manually verifying dimensions is highly recommended.
3. One intermediate tube support fabricated from stock of the same material as the casing will be provided.
4. The supply line should be connected to the lower connection on the leaving air side for counterflow operation.
5. Coils will vent and drain through factory-installed vent and drain fittings when mounted level for horizontal flow.
6. Connection location other than standard could affect vent and drain locations. Consult factory.

Options

Casing type: Flanged
 Fluid: Water
 Vent/Drain: .50 FPT on Face

Materials of Construction

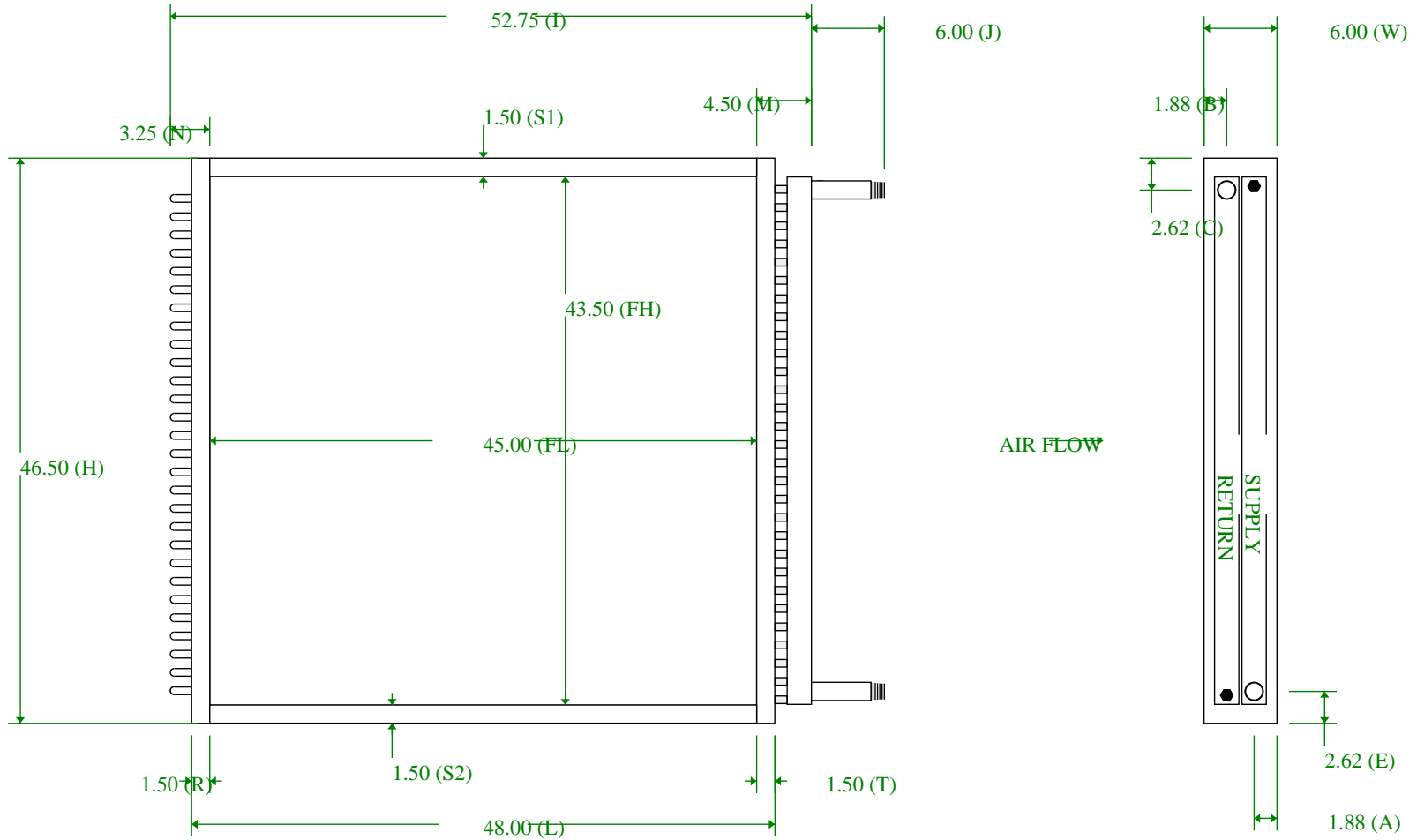
Tube material [in]: 0.035 Copper
 Fin material [in]: 0.0095 Aluminum
 Casing material: Galvanized Steel
 Hand: Right
 Conn. material: Carbon Steel
 Conn. type: MPT
 Conn. qty: 1
 Conn. size [in]: 1.50 Same End
 Weight [lbs]: 123.3



Heatcraft heat transfer coils



Date: 01-05-2023
Item: RHC-4903C
Quantity: 1
Model: 5MQ1101B - 45 x 53
Project: (116102) Eli Lilly - Building 4 Concord
Saved run ID: 2654690



General Notes

1. All dimensions are in inches.
2. Manually verifying dimensions is highly recommended.
3. The supply line should be connected to the lower connection on the leaving air side for counterflow operation.
4. Coils will vent and drain through factory-installed vent and drain fittings when mounted level for horizontal flow.
5. Connection location other than standard could affect vent and drain locations. Consult factory.

Options

Casing type: Flanged
 Fluid: Water
 Vent/Drain: .50 FPT on Face

Materials of Construction

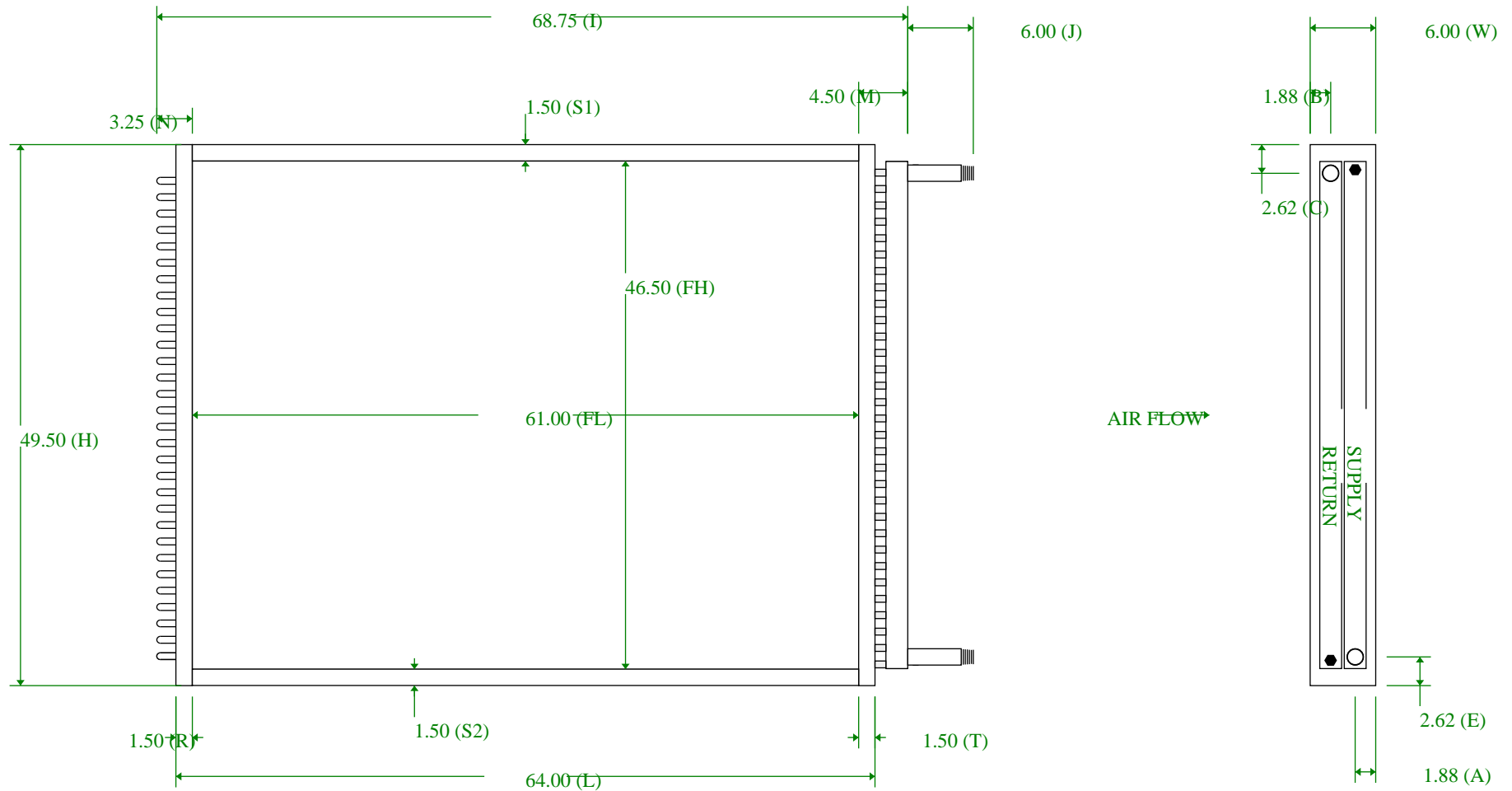
Tube material [in]: 0.035 Copper
 Fin material [in]: 0.0095 Aluminum
 Casing material: Galvanized Steel
 Hand: Right
 Conn. material: Carbon Steel
 Conn. type: MPT
 Conn. qty: 1
 Conn. size [in]: 1.50 Same End
 Weight [lbs]: 107.6



Heatcraft® heat transfer coils



Date: 01-05-2023
Item: RHC-4904A
Quantity: 1
Model: 5MQ1101B - 43.5 x 45
Project: (116102) Eli Lilly - Building 4 Concord
Saved run ID: 2654690



General Notes

1. All dimensions are in inches.
2. Manually verifying dimensions is highly recommended.
3. One intermediate tube support fabricated from stock of the same material as the casing will be provided.
4. The supply line should be connected to the lower connection on the leaving air side for counterflow operation.
5. Coils will vent and drain through factory-installed vent and drain fittings when mounted level for horizontal flow.
6. Connection location other than standard could affect vent and drain locations. Consult factory.

Options

Casing type: Flanged
 Fluid: Water
 Vent/Drain: .50 FPT on Face

Materials of Construction

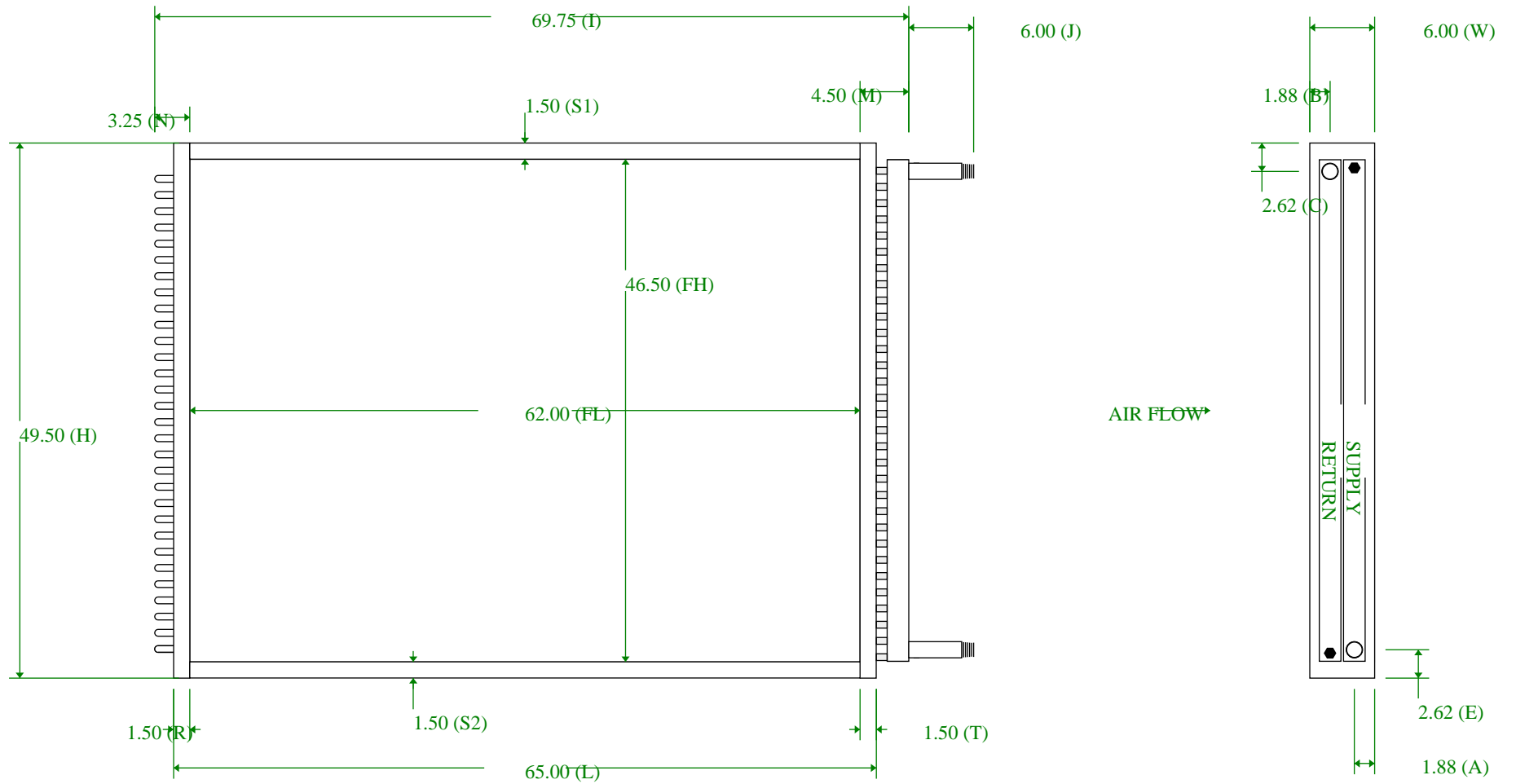
Tube material [in]: 0.035 Copper
 Fin material [in]: 0.0095 Aluminum
 Casing material: Galvanized Steel
 Hand: Right
 Conn. material: Carbon Steel
 Conn. type: MPT
 Conn. qty: 1
 Conn. size [in]: 1.50 Same End
 Weight [lbs]: 139.6



Heatcraft heat transfer coils



Date: 01-05-2023
Item: RHC-4904D
Quantity: 1
Model: 5MQ1101B - 46.5 x 61
Project: (116102) Eli Lilly - Building 4 Concord
Saved run ID: 2654690



General Notes

1. All dimensions are in inches.
2. Manually verifying dimensions is highly recommended.
3. One intermediate tube support fabricated from stock of the same material as the casing will be provided.
4. The supply line should be connected to the lower connection on the leaving air side for counterflow operation.
5. Coils will vent and drain through factory-installed vent and drain fittings when mounted level for horizontal flow.
6. Connection location other than standard could affect vent and drain locations. Consult factory.

Options

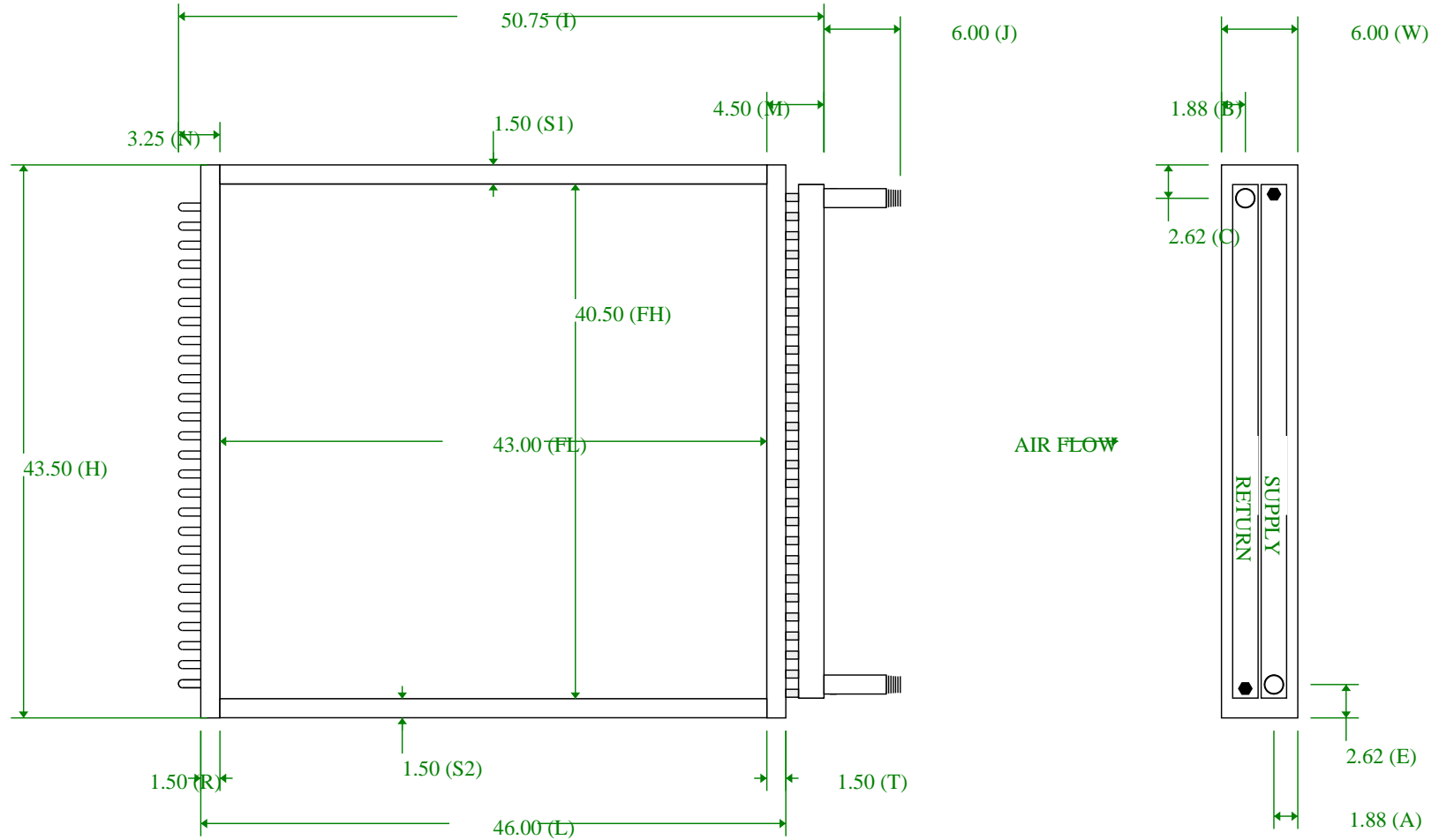
Casing type: Flanged
 Fluid: Water
 Vent/Drain: .50 FPT on Face

Materials of Construction

Tube material [in]: 0.035 Copper
 Fin material [in]: 0.0095 Aluminum
 Casing material: Galvanized Steel
 Hand: Right
 Conn. material: Carbon Steel
 Conn. type: MPT
 Conn. qty: 1
 Conn. size [in]: 1.50 Same End
 Weight [lbs]: 141.2



Date: 01-05-2023
Item: RHC-4905A
Quantity: 1
Model: 5MQ1101B - 46.5 x 62
Project: (116102) Eli Lilly - Building 4 Concord
Saved run ID: 2654690



General Notes

1. All dimensions are in inches.
2. Manually verifying dimensions is highly recommended.
3. The supply line should be connected to the lower connection on the leaving air side for counterflow operation.
4. Coils will vent and drain through factory-installed vent and drain fittings when mounted level for horizontal flow.
5. Connection location other than standard could affect vent and drain locations. Consult factory.

Options

Casing type: Flanged
 Fluid: Water
 Vent/Drain: .50 FPT on Face

Materials of Construction

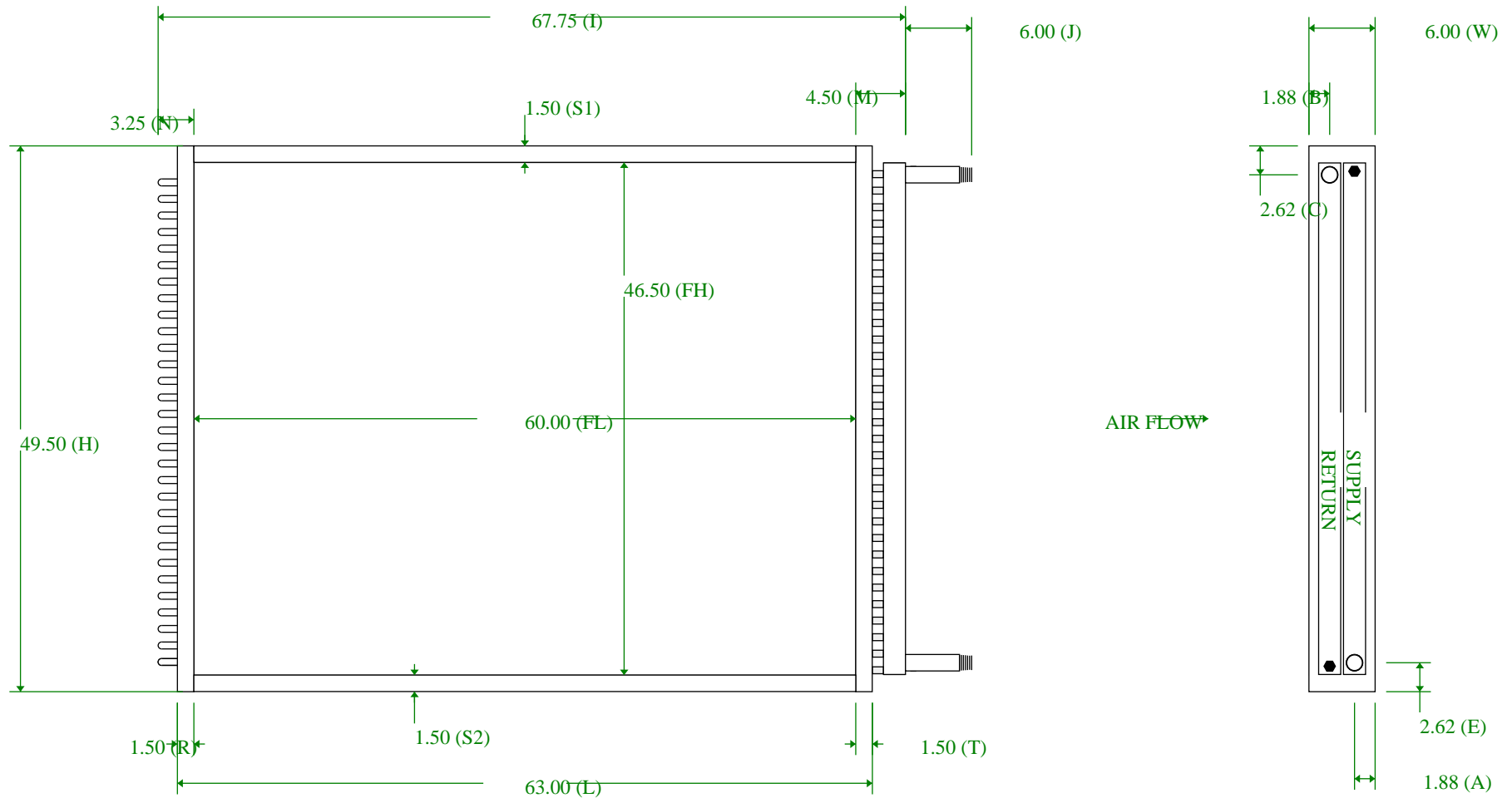
Tube material [in]: 0.035 Copper
 Fin material [in]: 0.0095 Aluminum
 Casing material: Galvanized Steel
 Hand: Right
 Conn. material: Carbon Steel
 Conn. type: MPT
 Conn. qty: 1
 Conn. size [in]: 1.50 Same End
 Weight [lbs]: 98.49



Heatcraft® heat transfer coils



Date: 01-05-2023
Item: RHC-4905C
Quantity: 1
Model: 5MQ1101B - 40.5 x 43
Project: (116102) Eli Lilly - Building 4 Concord
Saved run ID: 2654690



General Notes

1. All dimensions are in inches.
2. Manually verifying dimensions is highly recommended.
3. One intermediate tube support fabricated from stock of the same material as the casing will be provided.
4. The supply line should be connected to the lower connection on the leaving air side for counterflow operation.
5. Coils will vent and drain through factory-installed vent and drain fittings when mounted level for horizontal flow.
6. Connection location other than standard could affect vent and drain locations. Consult factory.

Options

Casing type: Flanged
 Fluid: Water
 Vent/Drain: .50 FPT on Face

Materials of Construction

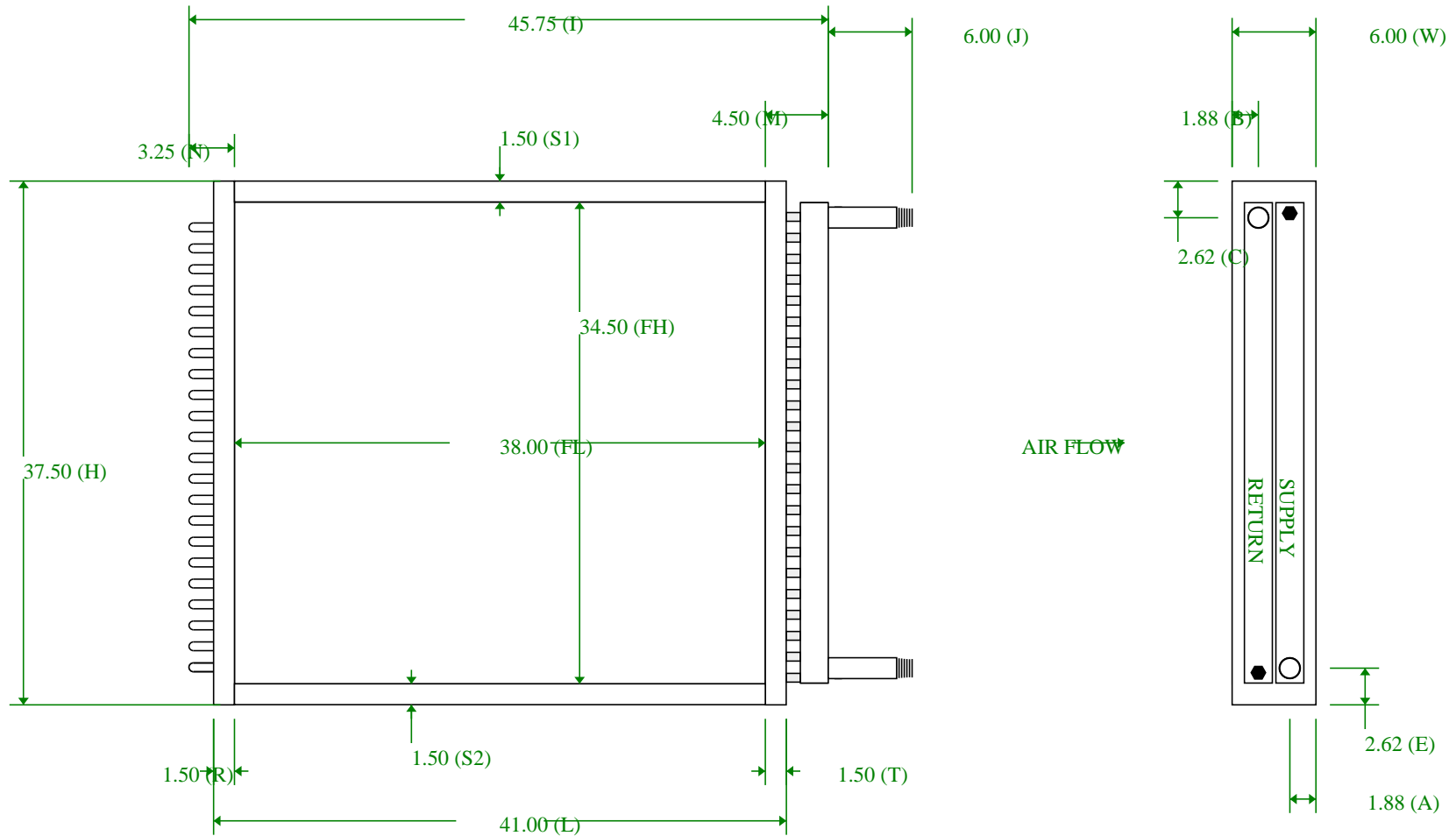
Tube material [in]: 0.035 Copper
 Fin material [in]: 0.0095 Aluminum
 Casing material: Galvanized Steel
 Hand: Right
 Conn. material: Carbon Steel
 Conn. type: MPT
 Conn. qty: 1
 Conn. size [in]: 1.50 Same End
 Weight [lbs]: 137.9



Heatcraft® heat transfer coils



Date: 01-05-2023
Item: RHC-4905D
Quantity: 1
Model: 5MQ1101B - 46.5 x 60
Project: (116102) Eli Lilly - Building 4 Concord
Saved run ID: 2654690



General Notes

1. All dimensions are in inches.
2. Manually verifying dimensions is highly recommended.
3. The supply line should be connected to the lower connection on the leaving air side for counterflow operation.
4. Coils will vent and drain through factory-installed vent and drain fittings when mounted level for horizontal flow.
5. Connection location other than standard could affect vent and drain locations. Consult factory.

Options

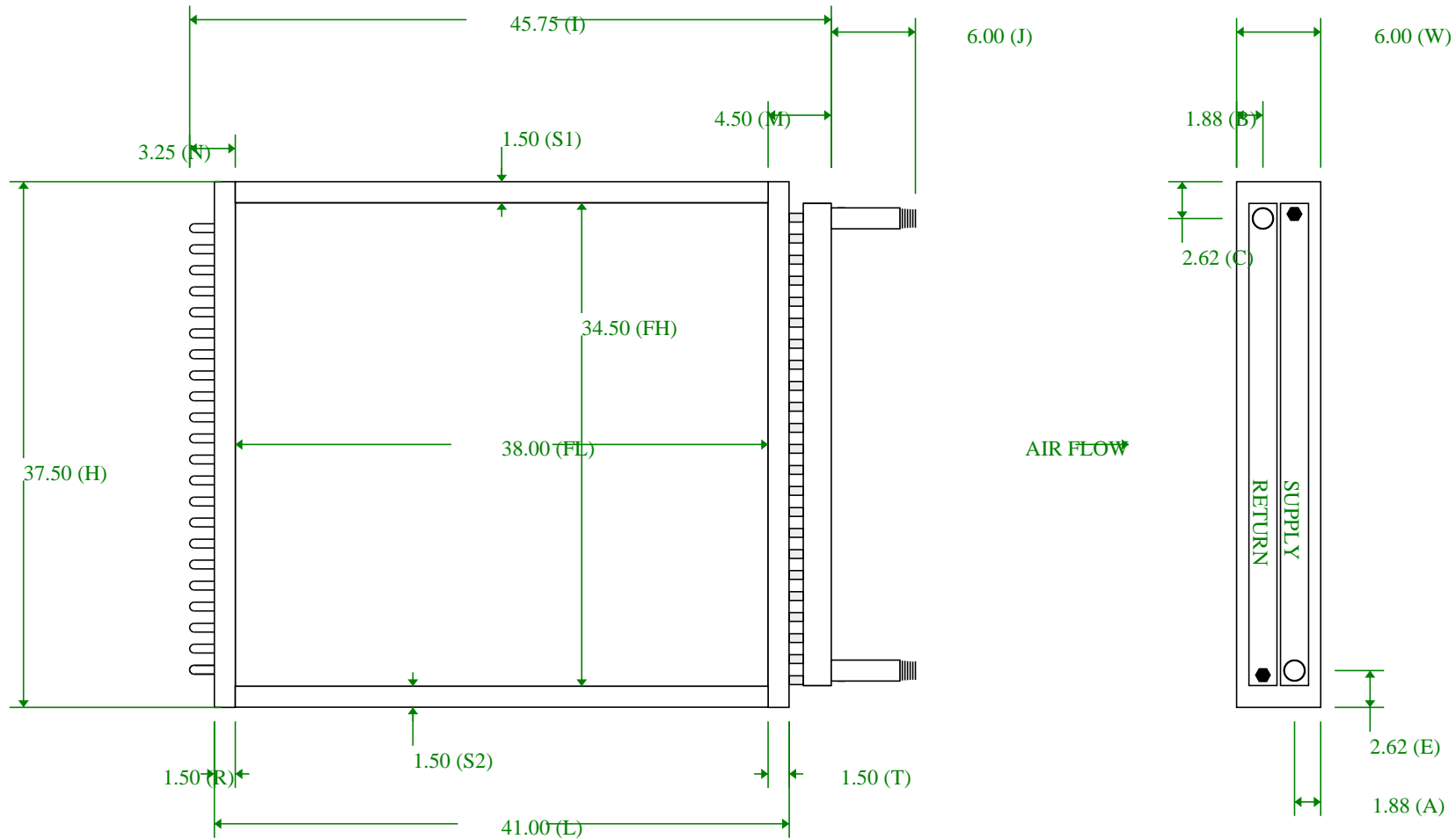
Casing type: Flanged
 Fluid: Water
 Vent/Drain: .50 FPT on Face

Materials of Construction

Tube material [in]: 0.035 Copper
 Fin material [in]: 0.0095 Aluminum
 Casing material: Galvanized Steel
 Hand: Right
 Conn. material: Carbon Steel
 Conn. type: MPT
 Conn. qty: 1
 Conn. size [in]: 1.50 Same End
 Weight [lbs]: 79.92



Date: 01-05-2023
Item: RHC-4906A,B
Quantity: 2
Model: 5M1101B - 34.5 x 38
Project: (116102) Eli Lilly - Building 4 Concord
Saved run ID: 2654690



General Notes

1. All dimensions are in inches.
2. Manually verifying dimensions is highly recommended.
3. The supply line should be connected to the lower connection on the leaving air side for counterflow operation.
4. Coils will vent and drain through factory-installed vent and drain fittings when mounted level for horizontal flow.
5. Connection location other than standard could affect vent and drain locations. Consult factory.

Options

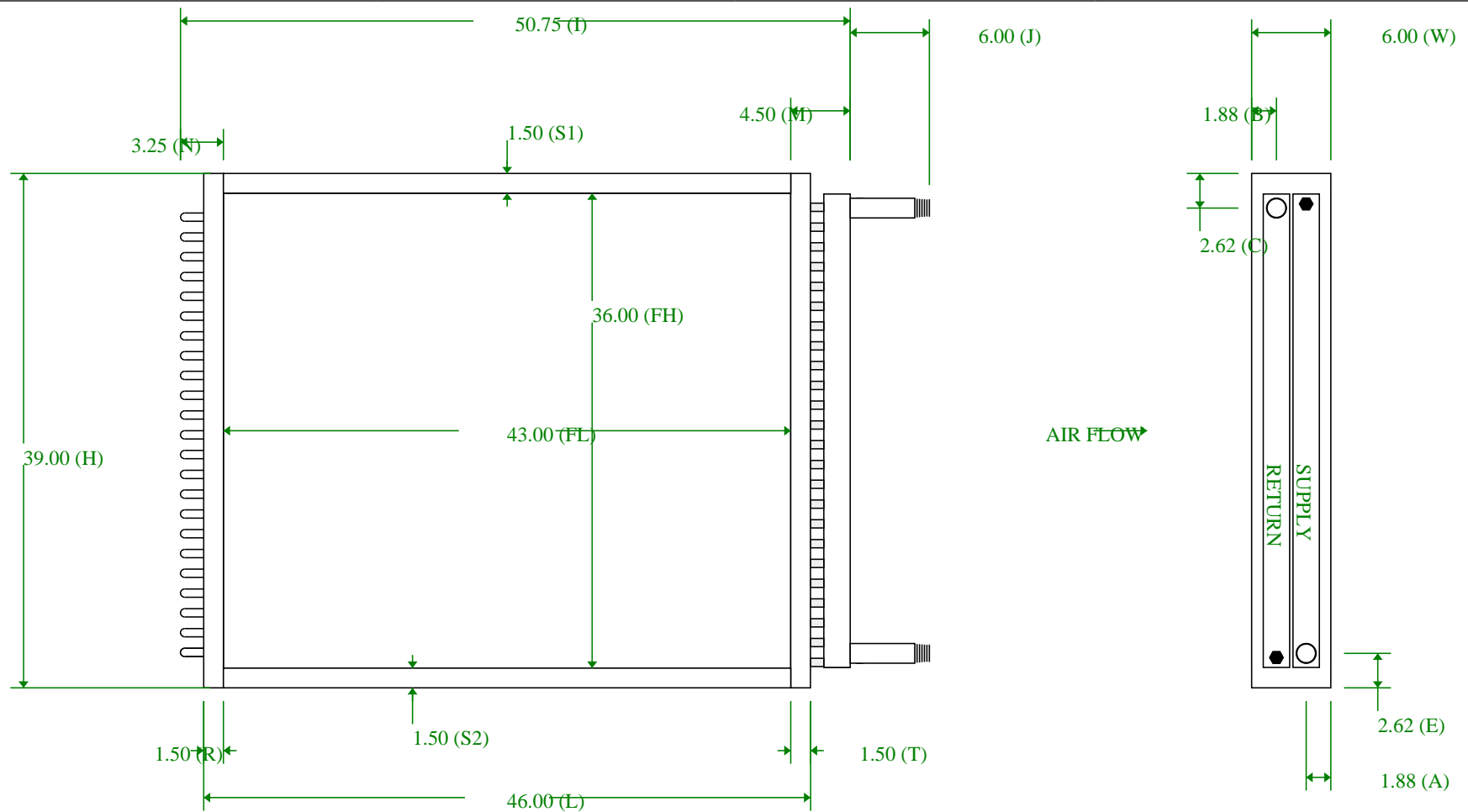
Casing type: Flanged
 Fluid: Water
 Vent/Drain: .50 FPT on Face

Materials of Construction

Tube material [in]: 0.035 Copper
 Fin material [in]: 0.0095 Aluminum
 Casing material: Galvanized Steel
 Hand: Right
 Conn. material: Carbon Steel
 Conn. type: MPT
 Conn. qty: 1
 Conn. size [in]: 1.50 Same End
 Weight [lbs]: 79.92



Date: 01-05-2023
Item: RHC-4906D
Quantity: 1
Model: 5M1101B - 34.5 x 38
Project: (116102) Eli Lilly - Building 4 Concord
Saved run ID: 2654690



General Notes

1. All dimensions are in inches.
2. Manually verifying dimensions is highly recommended.
3. The supply line should be connected to the lower connection on the leaving air side for counterflow operation.
4. Coils will vent and drain through factory-installed vent and drain fittings when mounted level for horizontal flow.
5. Connection location other than standard could affect vent and drain locations. Consult factory.

Options

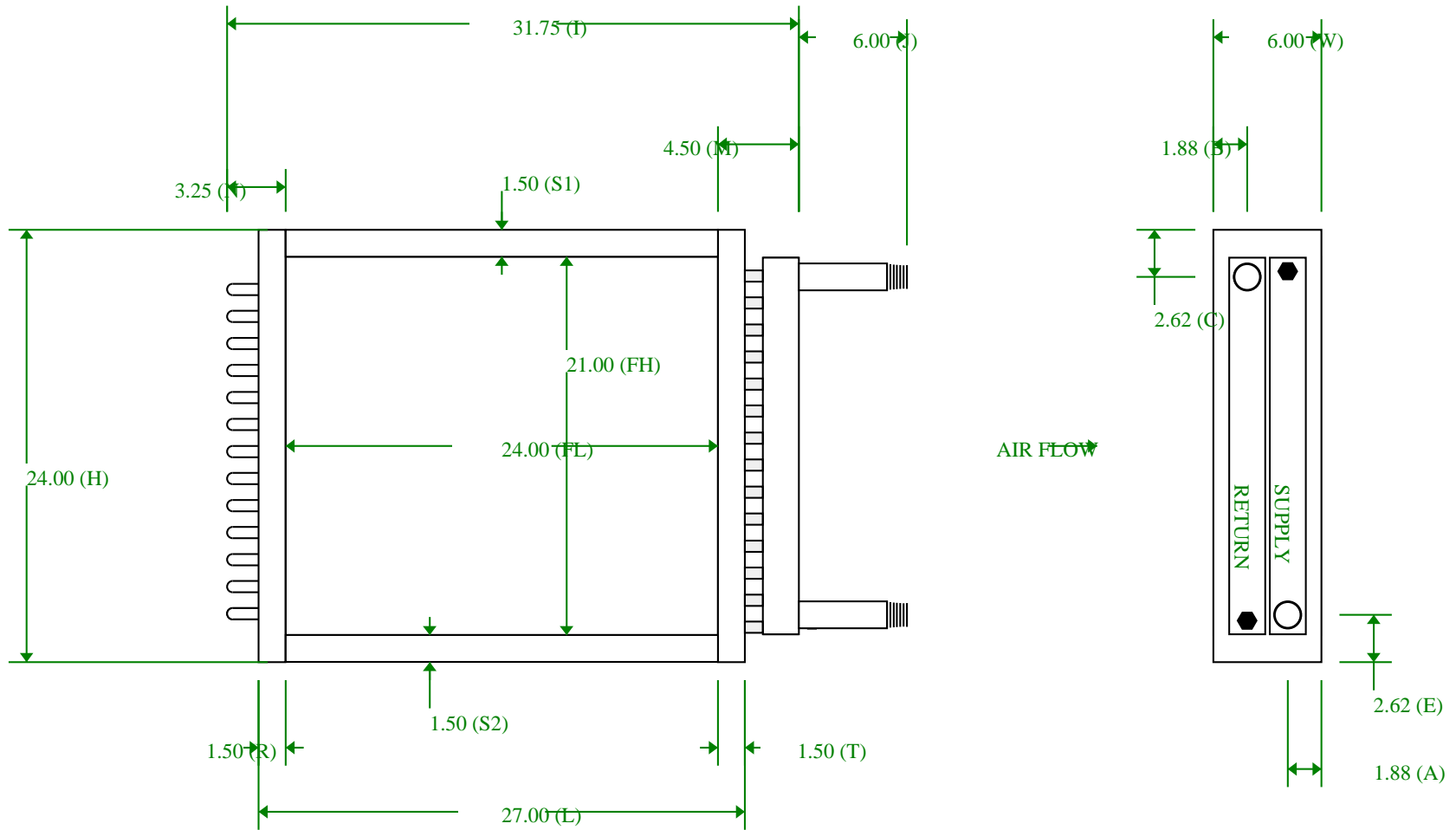
Casing type: Flanged
 Fluid: Water
 Vent/Drain: .50 FPT on Face

Materials of Construction

Tube material [in]: 0.035 Copper
 Fin material [in]: 0.0095 Aluminum
 Casing material: Galvanized Steel
 Hand: Right
 Conn. material: Carbon Steel
 Conn. type: MPT
 Conn. qty: 1
 Conn. size [in]: 1.50 Same End
 Weight [lbs]: 89.42



Date: 01-05-2023
Item: RHC-4906C
Quantity: 1
Model: 5MQ1101B - 36 x 43
Project: (116102) Eli Lilly - Building 4 Concord
Saved run ID: 2654690



General Notes

1. All dimensions are in inches.
2. Manually verifying dimensions is highly recommended.
3. The supply line should be connected to the lower connection on the leaving air side for counterflow operation.
4. Coils will vent and drain through factory-installed vent and drain fittings when mounted level for horizontal flow.
5. Connection location other than standard could affect vent and drain locations. Consult factory.

Options

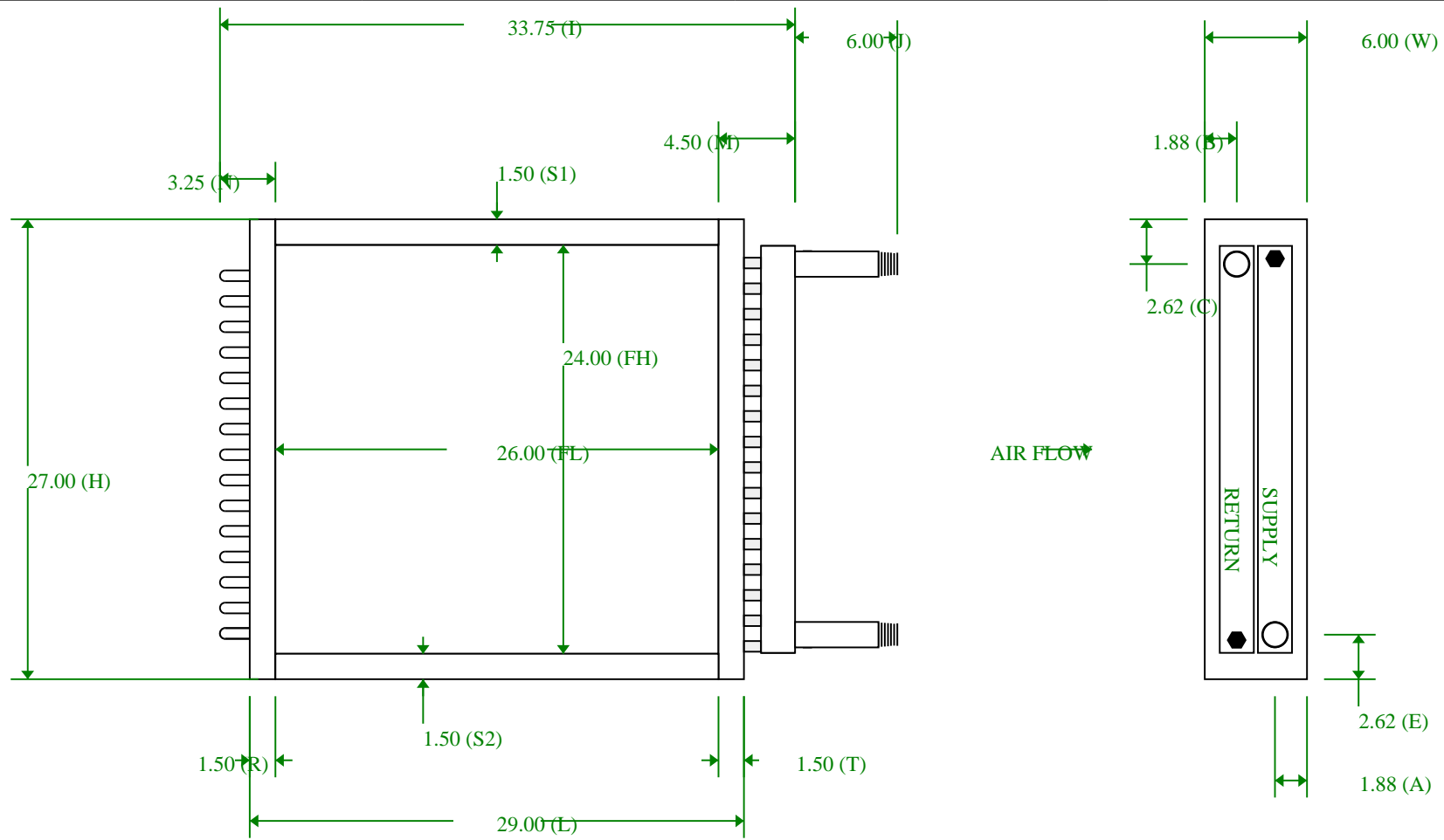
Casing type: Flanged
 Fluid: Water
 Vent/Drain: .50 FPT on Face

Materials of Construction

Tube material [in]: 0.035 Copper
 Fin material [in]: 0.0095 Aluminum
 Casing material: Galvanized Steel
 Hand: Right
 Conn. material: Carbon Steel
 Conn. type: MPT
 Conn. qty: 1
 Conn. size [in]: 1.50 Same End
 Weight [lbs]: 41.79



Date: 01-05-2023
Item: RHC-4101A
Quantity: 1
Model: 5MI1201B - 21 x 24
Project: (116102) Eli Lilly - Building 4 Concord
Saved run ID: 2654690



General Notes

1. All dimensions are in inches.
2. Manually verifying dimensions is highly recommended.
3. The supply line should be connected to the lower connection on the leaving air side for counterflow operation.
4. Coils will vent and drain through factory-installed vent and drain fittings when mounted level for horizontal flow.
5. Connection location other than standard could affect vent and drain locations. Consult factory.

Options

Casing type: Flanged
 Fluid: Water
 Vent/Drain: .50 FPT on Face

Materials of Construction

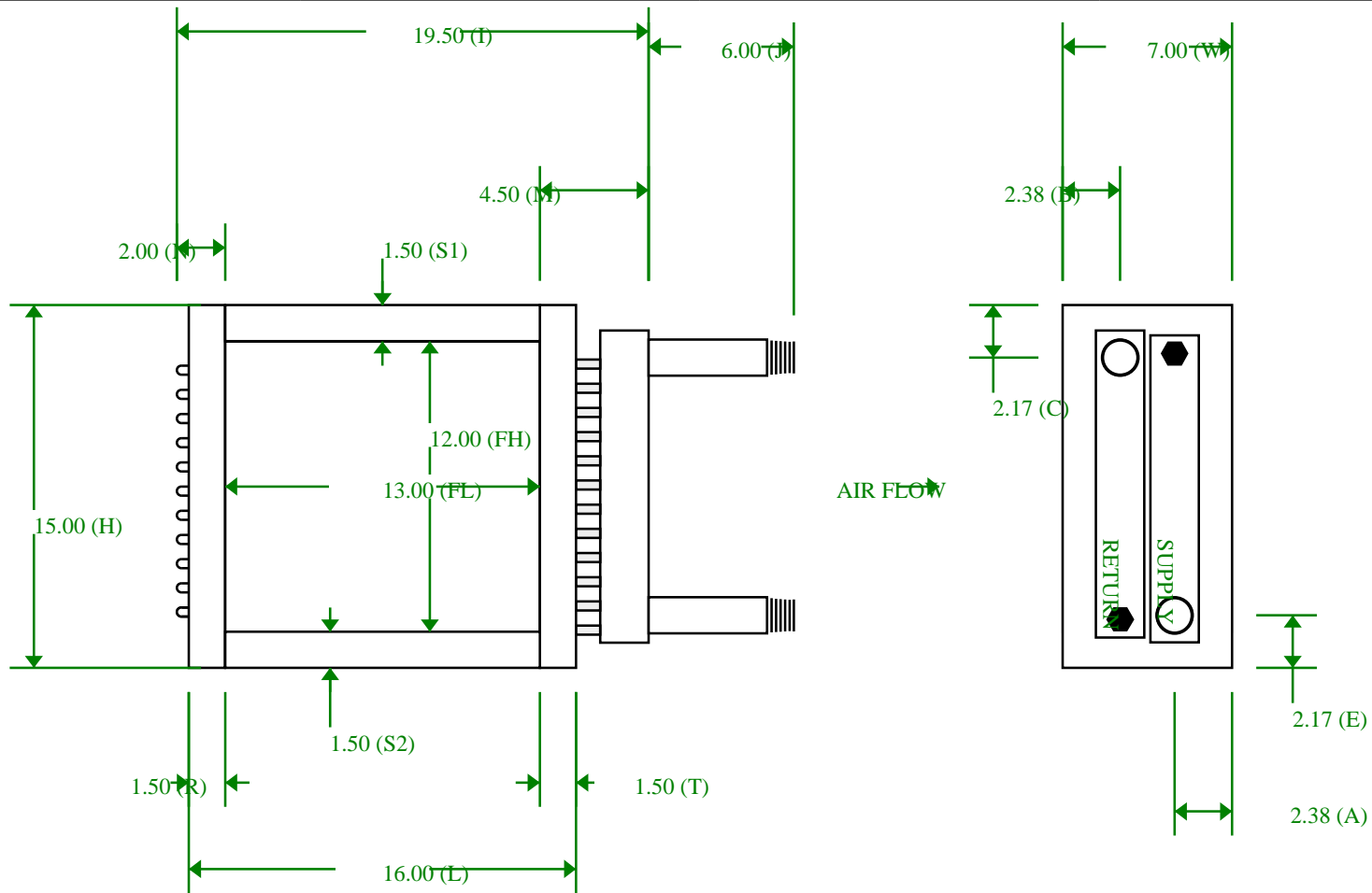
Tube material [in]: 0.035 Copper
 Fin material [in]: 0.0095 Aluminum
 Casing material: Galvanized Steel
 Hand: Right
 Conn. material: Carbon Steel
 Conn. type: MPT
 Conn. qty: 1
 Conn. size [in]: 1.50 Same End
 Weight [lbs]: 48.50



Heatcraft® heat transfer coils



Date: 01-05-2023
Item: RHC-4101B
Quantity: 1
Model: 5M1201C - 24 x 26
Project: (116102) Eli Lilly - Building 4 Concord
Saved run ID: 2654690



General Notes

1. All dimensions are in inches.
2. Manually verifying dimensions is highly recommended.
3. The supply line should be connected to the lower connection on the leaving air side for counterflow operation.
4. Coils will vent and drain through factory-installed vent and drain fittings when mounted level for horizontal flow.
5. Connection location other than standard could affect vent and drain locations. Consult factory.

Options

Casing type: Flanged
 Fluid: Water
 Vent/Drain: .50 FPT on Face

Materials of Construction

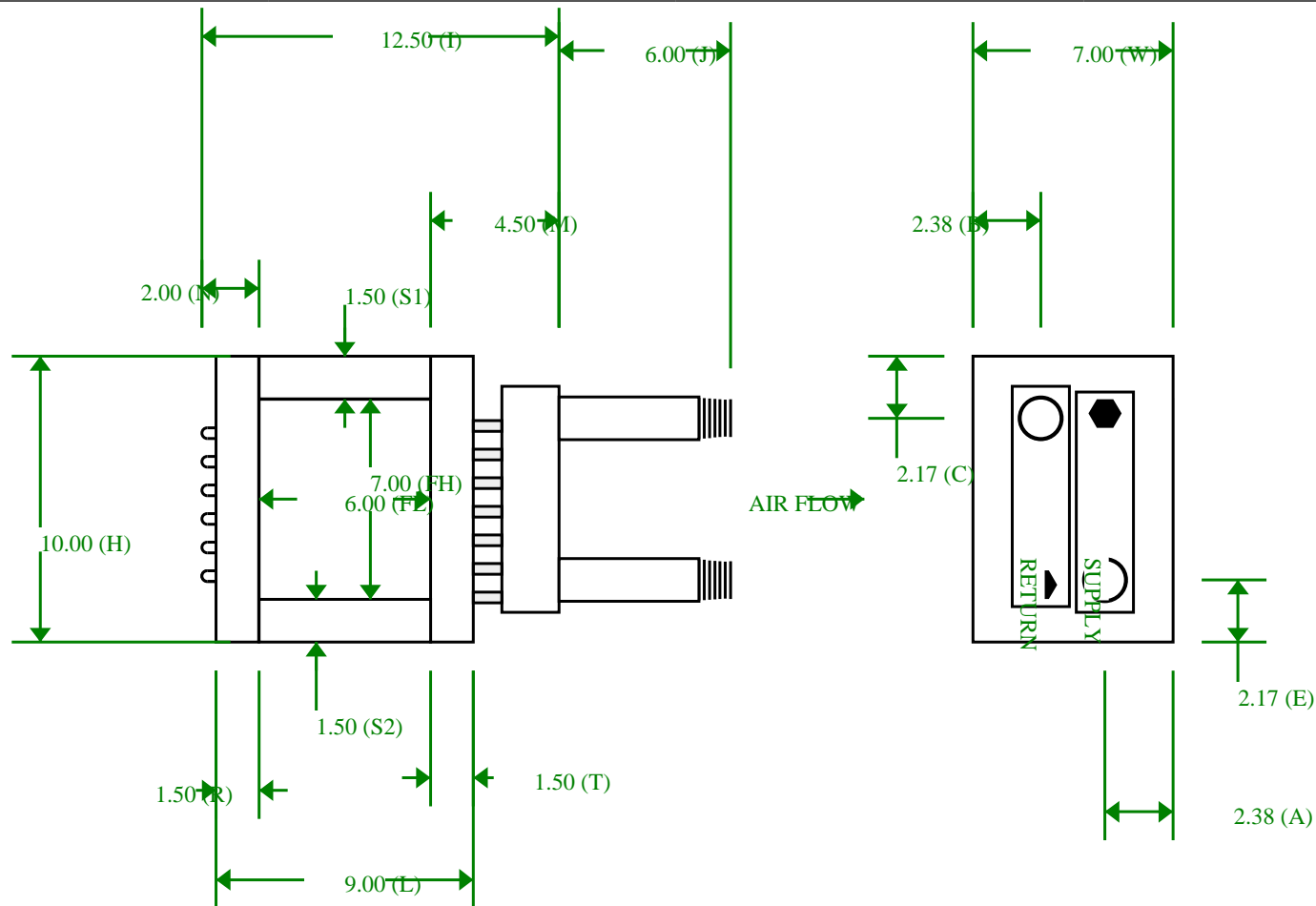
Tube material [in]: 0.030 Copper
 Fin material [in]: 0.0095 Aluminum
 Casing material: Galvanized Steel
 Hand: Right
 Conn. material: Carbon Steel
 Conn. type: MPT
 Conn. qty: 1
 Conn. size [in]: 1.50 Same End
 Weight [lbs]: 20.02



Heatcraft® heat transfer coils



Date: 01-05-2023
Item: RHC-4101C
Quantity: 1
Model: 3MQ0602C - 12 x 13
Project: (116102) Eli Lilly - Building 4 Concord
Saved run ID: 2654690



General Notes

1. All dimensions are in inches.
2. Manually verifying dimensions is highly recommended.
3. The supply line should be connected to the lower connection on the leaving air side for counterflow operation.
4. Coils will vent and drain through factory-installed vent and drain fittings when mounted level for horizontal flow.
5. Connection location other than standard could affect vent and drain locations. Consult factory.

Options

Casing type: Flanged
 Fluid: Water
 Vent/Drain: .50 FPT on Face

Materials of Construction

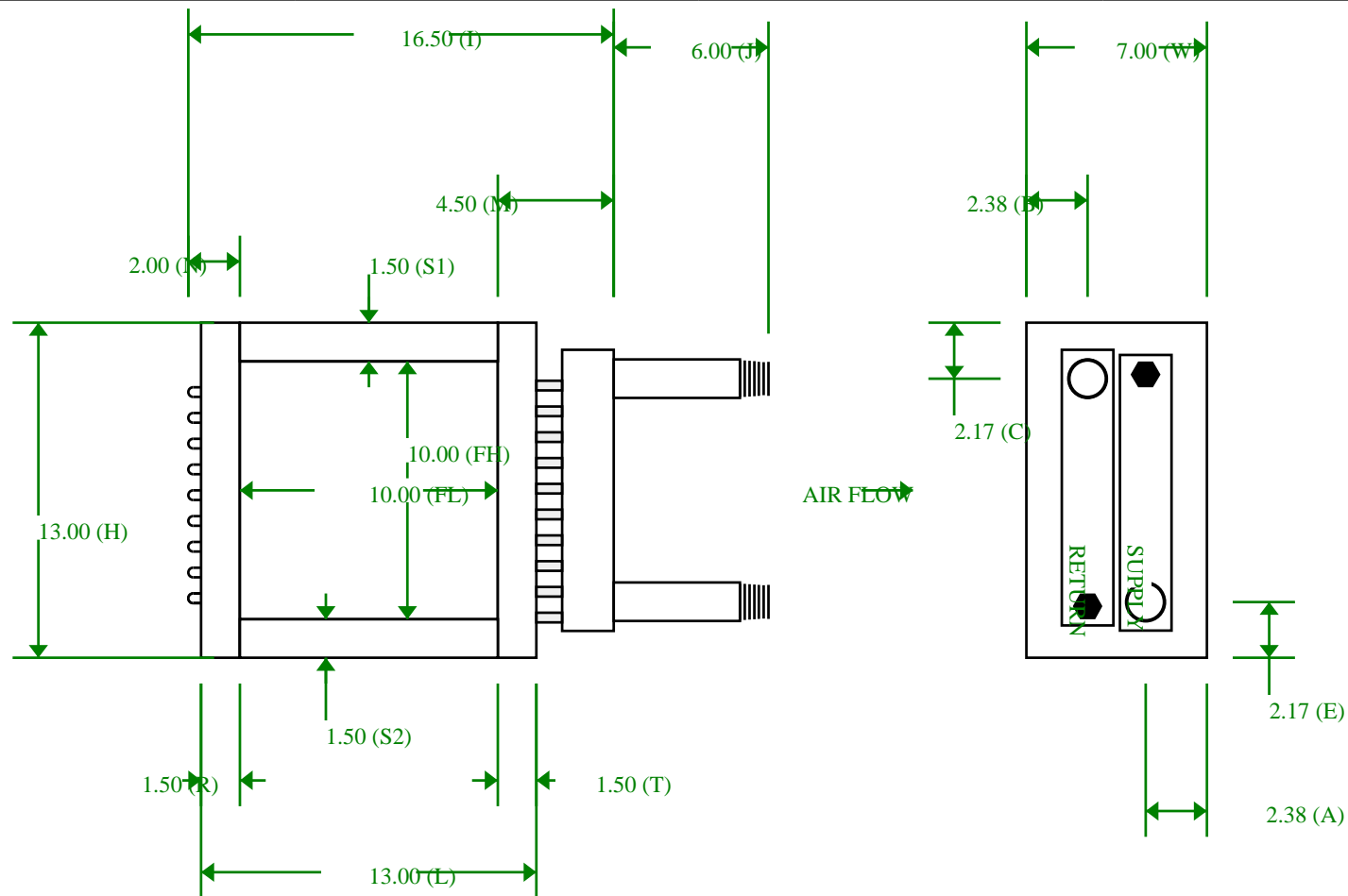
Tube material [in]: 0.030 Copper
 Fin material [in]: 0.0095 Aluminum
 Casing material: Galvanized Steel
 Hand: Right
 Conn. material: Carbon Steel
 Conn. type: MPT
 Conn. qty: 1
 Conn. size [in]: 1.50 Same End
 Weight [lbs]: 9.976



Heatcraft® heat transfer coils



Date: 01-05-2023
Item: RHC-4102, 4108, 4114, 4202, 4208
Quantity: 5
Model: 3MQ0902B - 7 x 6
Project: (116102) Eli Lilly - Building 4 Concord
Saved run ID: 2654690



General Notes

1. All dimensions are in inches.
2. Manually verifying dimensions is highly recommended.
3. The supply line should be connected to the lower connection on the leaving air side for counterflow operation.
4. Coils will vent and drain through factory-installed vent and drain fittings when mounted level for horizontal flow.
5. Connection location other than standard could affect vent and drain locations. Consult factory.

Options

Casing type: Flanged
 Fluid: Water
 Vent/Drain: .50 FPT on Face

Materials of Construction

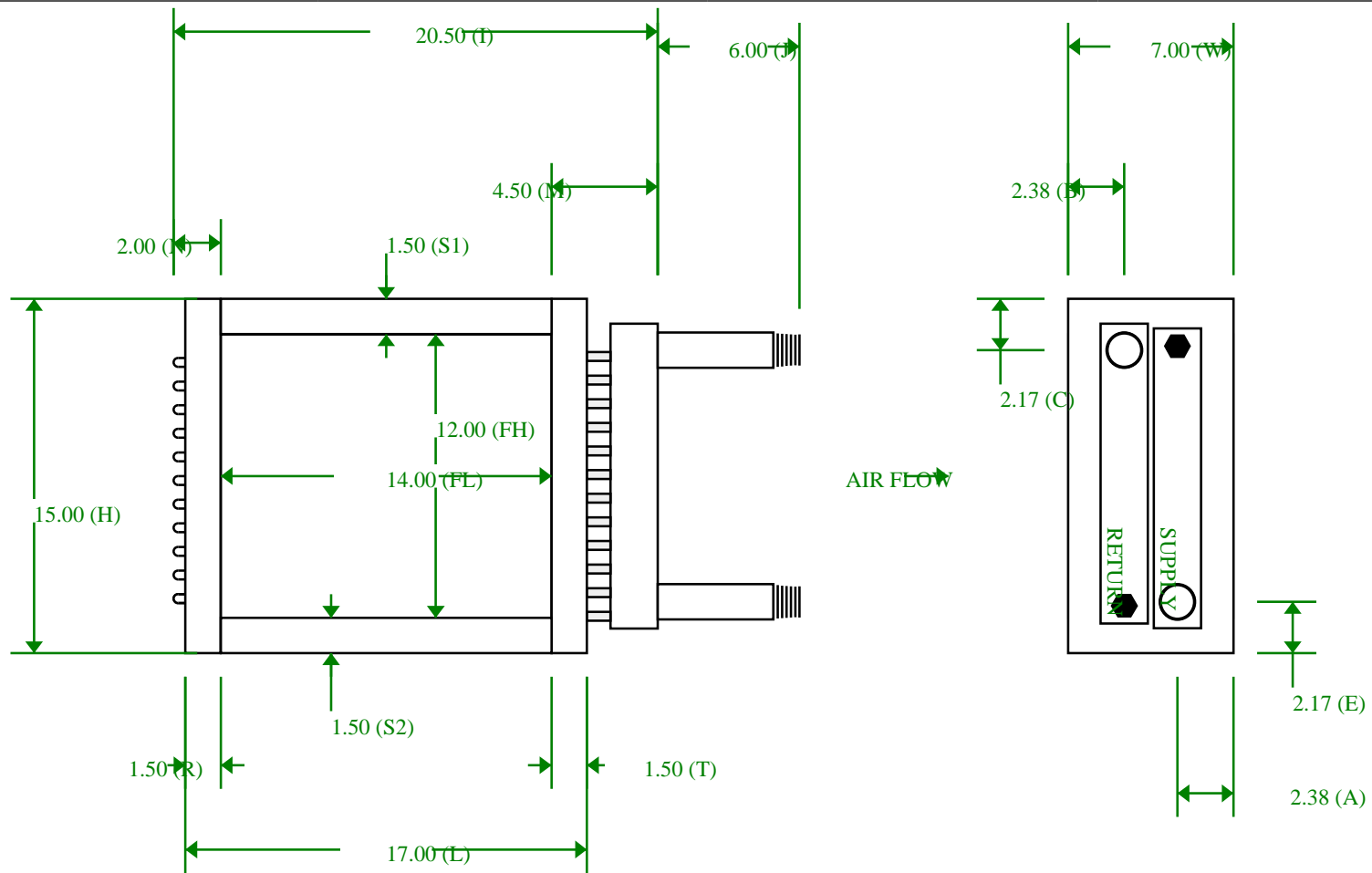
Tube material [in]: 0.030 Copper
 Fin material [in]: 0.0095 Aluminum
 Casing material: Galvanized Steel
 Hand: Right
 Conn. material: Carbon Steel
 Conn. type: MPT
 Conn. qty: 1
 Conn. size [in]: 1.50 Same End
 Weight [lbs]: 15.54



Heatcraft® heat transfer coils



Date: 01-05-2023
Item: RHC-4103, 4118, 4203
Quantity: 3
Model: 3MI0602C - 10 x 10
Project: (116102) Eli Lilly - Building 4 Concord
Saved run ID: 2654690



General Notes

1. All dimensions are in inches.
2. Manually verifying dimensions is highly recommended.
3. The supply line should be connected to the lower connection on the leaving air side for counterflow operation.
4. Coils will vent and drain through factory-installed vent and drain fittings when mounted level for horizontal flow.
5. Connection location other than standard could affect vent and drain locations. Consult factory.

Options

Casing type: Flanged
 Fluid: Water
 Vent/Drain: .50 FPT on Face

Materials of Construction

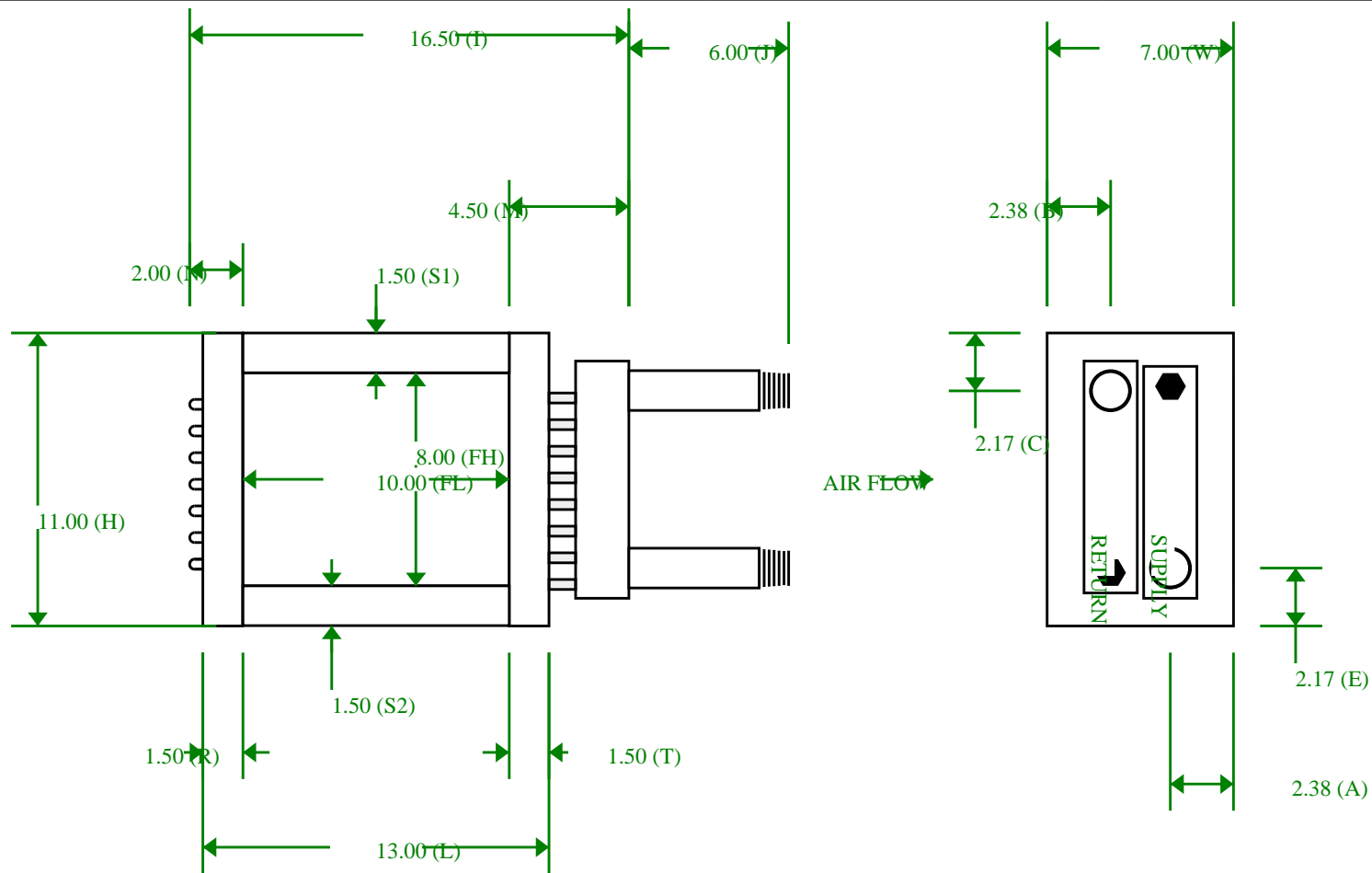
Tube material [in]: 0.030 Copper
 Fin material [in]: 0.0095 Aluminum
 Casing material: Galvanized Steel
 Hand: Right
 Conn. material: Carbon Steel
 Conn. type: MPT
 Conn. qty: 1
 Conn. size [in]: 1.50 Same End
 Weight [lbs]: 21.41



Heatcraft® heat transfer coils



Date: 01-05-2023
Item: RHC-4107, 4122A, 4212, 4207
Quantity: 4
Model: 3MQ0802B - 12 x 14
Project: (116102) Eli Lilly - Building 4 Concord
Saved run ID: 2654690



General Notes

1. All dimensions are in inches.
2. Manually verifying dimensions is highly recommended.
3. The supply line should be connected to the lower connection on the leaving air side for counterflow operation.
4. Coils will vent and drain through factory-installed vent and drain fittings when mounted level for horizontal flow.
5. Connection location other than standard could affect vent and drain locations. Consult factory.

Options

Casing type: Flanged
 Fluid: Water
 Vent/Drain: .50 FPT on Face

Materials of Construction

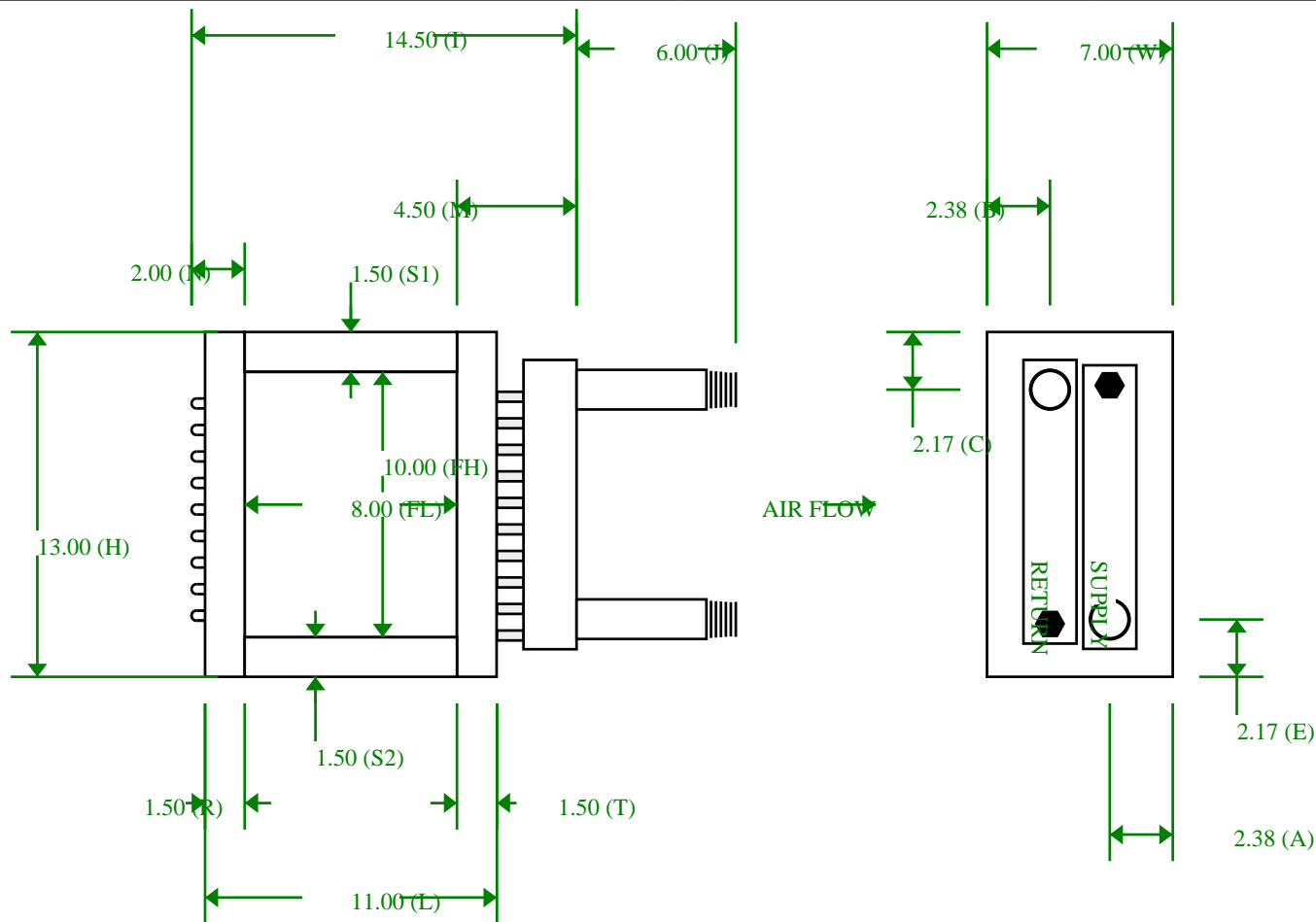
Tube material [in]: 0.030 Copper
 Fin material [in]: 0.0095 Aluminum
 Casing material: Galvanized Steel
 Hand: Right
 Conn. material: Carbon Steel
 Conn. type: MPT
 Conn. qty: 1
 Conn. size [in]: 1.50 Same End
 Weight [lbs]: 13.21



Heatcraft® heat transfer coils



Date: 01-05-2023
Item: RHC-4110, 4210
Quantity: 2
Model: 3MQ0602C - 8 x 10
Project: (116102) Eli Lilly - Building 4 Concord
Saved run ID: 2654690



General Notes

1. All dimensions are in inches.
2. Manually verifying dimensions is highly recommended.
3. The supply line should be connected to the lower connection on the leaving air side for counterflow operation.
4. Coils will vent and drain through factory-installed vent and drain fittings when mounted level for horizontal flow.
5. Connection location other than standard could affect vent and drain locations. Consult factory.

Options

Casing type: Flanged
 Fluid: Water
 Vent/Drain: .50 FPT on Face

Materials of Construction

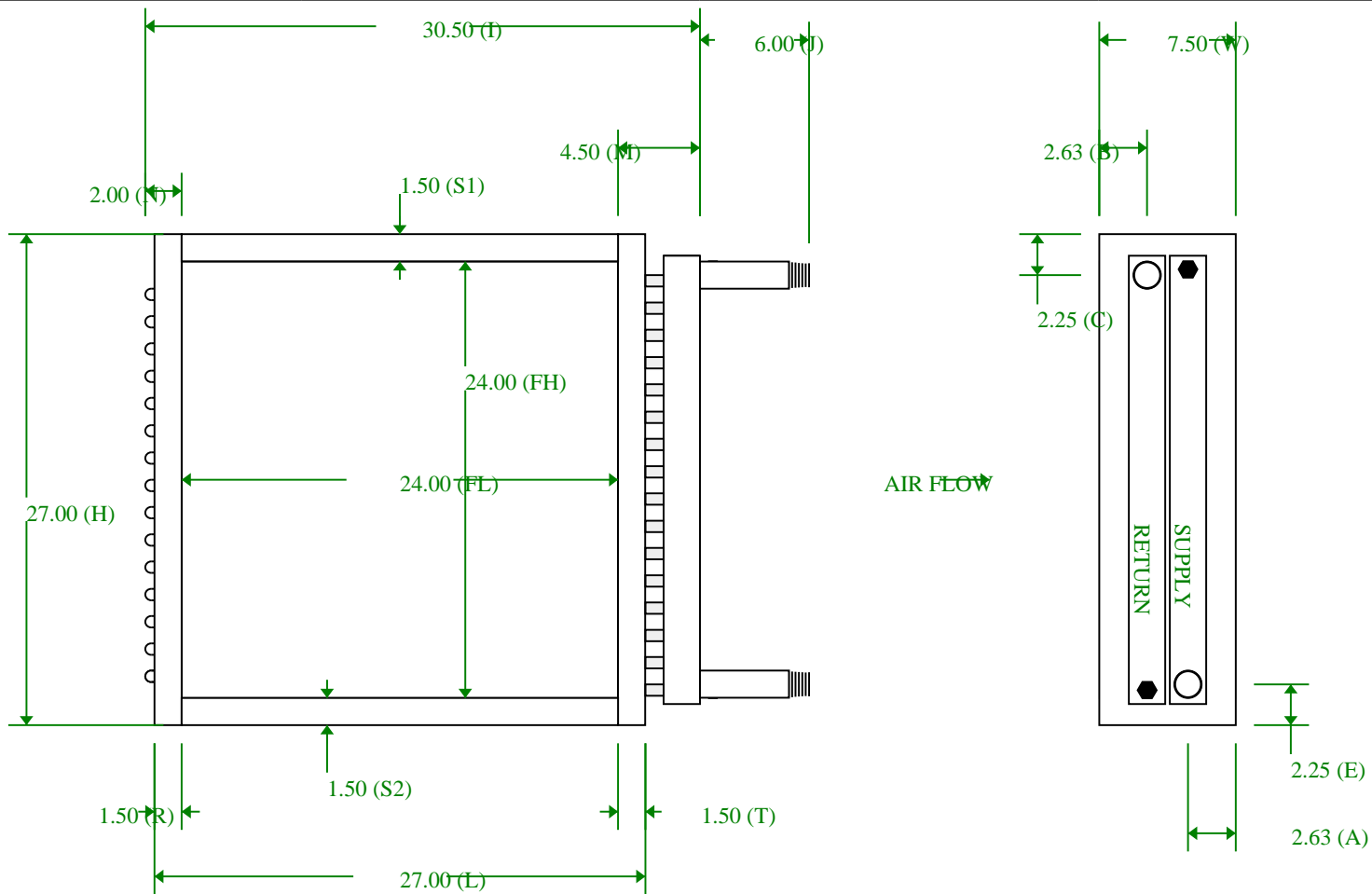
Tube material [in]: 0.030 Copper
 Fin material [in]: 0.0095 Aluminum
 Casing material: Galvanized Steel
 Hand: Right
 Conn. material: Carbon Steel
 Conn. type: MPT
 Conn. qty: 1
 Conn. size [in]: 1.50 Same End
 Weight [lbs]: 14.21



Heatcraft® heat transfer coils



Date: 01-05-2023
Item: RHC-4120F, 4123F
Quantity: 2
Model: 3MQ0602C - 10 x 8
Project: (116102) Eli Lilly - Building 4 Concord
Saved run ID: 2654690



General Notes

1. All dimensions are in inches.
2. Manually verifying dimensions is highly recommended.
3. The supply line should be connected to the lower connection on the leaving air side for counterflow operation.
4. Coils will vent and drain through factory-installed vent and drain fittings when mounted level for horizontal flow.
5. Connection location other than standard could affect vent and drain locations. Consult factory.

Options

Casing type: Flanged
 Fluid: Water
 Vent/Drain: .50 FPT on Face

Materials of Construction

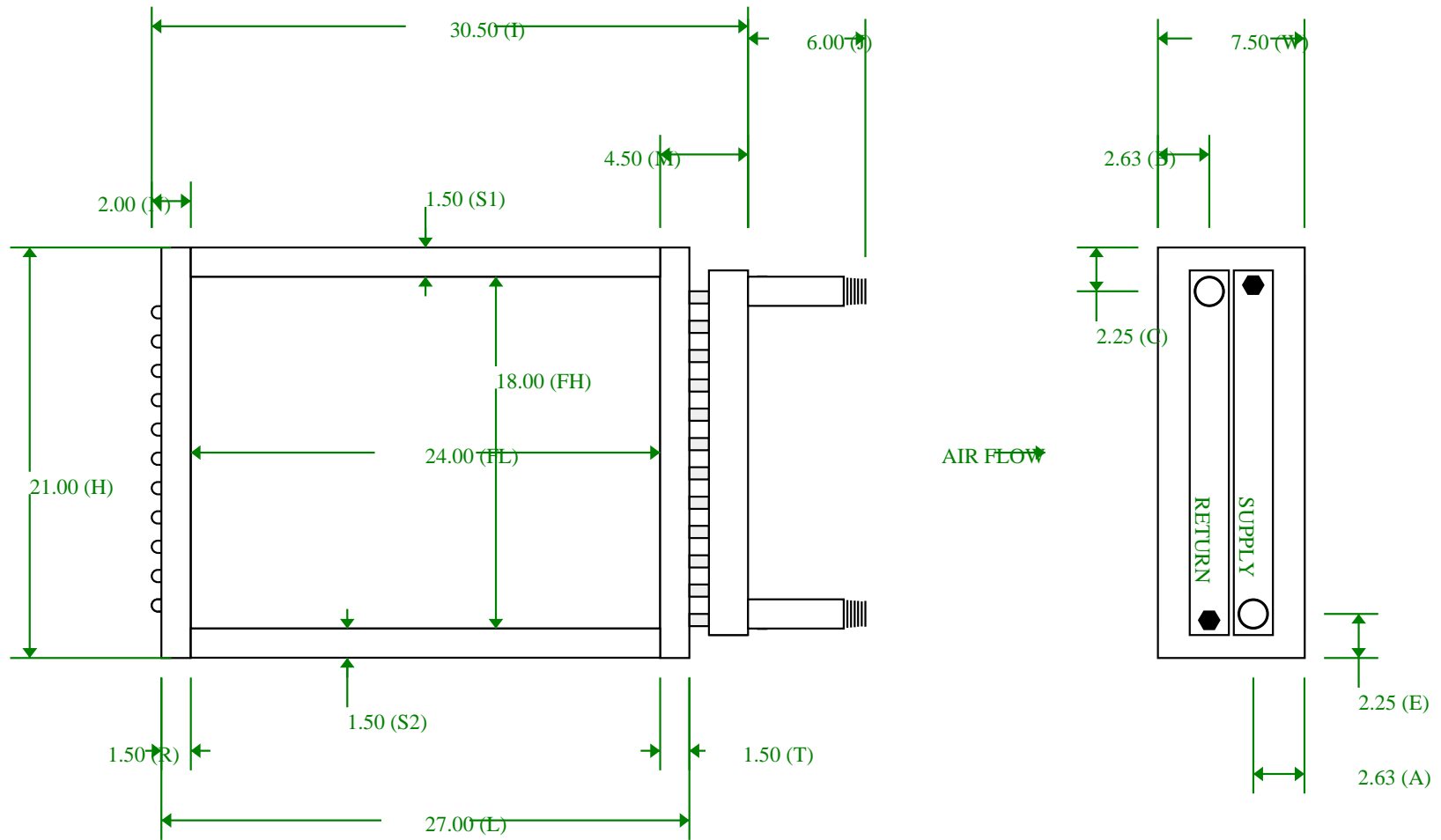
Tube material [in]: 0.035 Copper
 Fin material [in]: 0.0095 Aluminum
 Casing material: Galvanized Steel
 Hand: Right
 Conn. material: Carbon Steel
 Conn. type: MPT
 Conn. qty: 1
 Conn. size [in]: 1.50 Same End
 Weight [lbs]: 56.32



Heatcraft® heat transfer coils



Date: 01-05-2023
Item: RHC-4112, 4120B
Quantity: 2
Model: 5MI0702B - 24 x 24
Project: (116102) Eli Lilly - Building 4 Concord
Saved run ID: 2654690



General Notes

1. All dimensions are in inches.
2. Manually verifying dimensions is highly recommended.
3. The supply line should be connected to the lower connection on the leaving air side for counterflow operation.
4. Coils will vent and drain through factory-installed vent and drain fittings when mounted level for horizontal flow.
5. Connection location other than standard could affect vent and drain locations. Consult factory.

Options

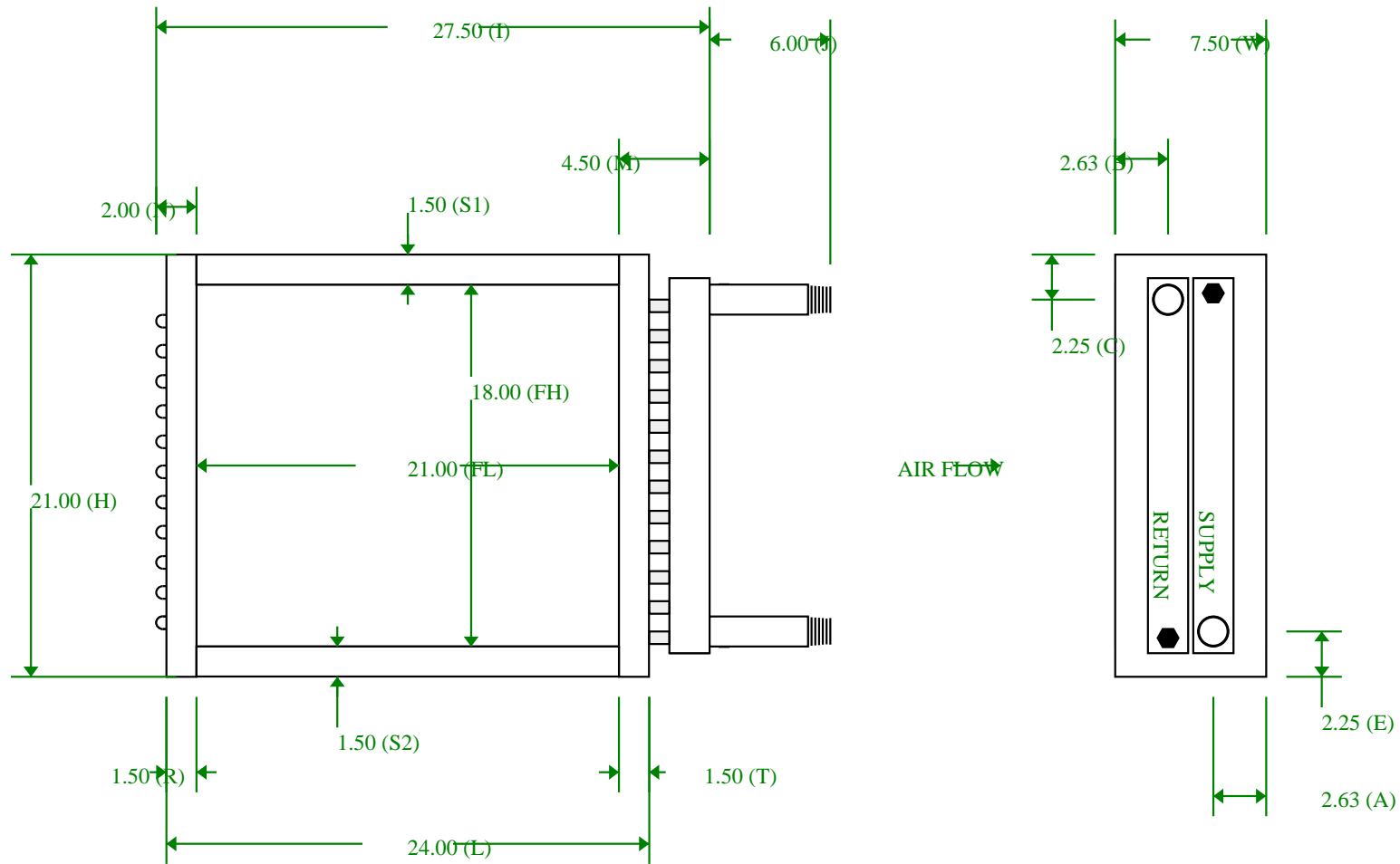
Casing type: Flanged
 Fluid: Water
 Vent/Drain: .50 FPT on Face

Materials of Construction

Tube material [in]: 0.035 Copper
 Fin material [in]: 0.0095 Aluminum
 Casing material: Galvanized Steel
 Hand: Right
 Conn. material: Carbon Steel
 Conn. type: MPT
 Conn. qty: 1
 Conn. size [in]: 1.50 Same End
 Weight [lbs]: 45.45



Date: 01-05-2023
Item: RHC-4113B, 4122B
Quantity: 2
Model: 5MI0802A - 18 x 24
Project: (116102) Eli Lilly - Building 4 Concord
Saved run ID: 2654690



General Notes

1. All dimensions are in inches.
2. Manually verifying dimensions is highly recommended.
3. The supply line should be connected to the lower connection on the leaving air side for counterflow operation.
4. Coils will vent and drain through factory-installed vent and drain fittings when mounted level for horizontal flow.
5. Connection location other than standard could affect vent and drain locations. Consult factory.

Options

Casing type: Flanged
 Fluid: Water
 Vent/Drain: .50 FPT on Face

Materials of Construction

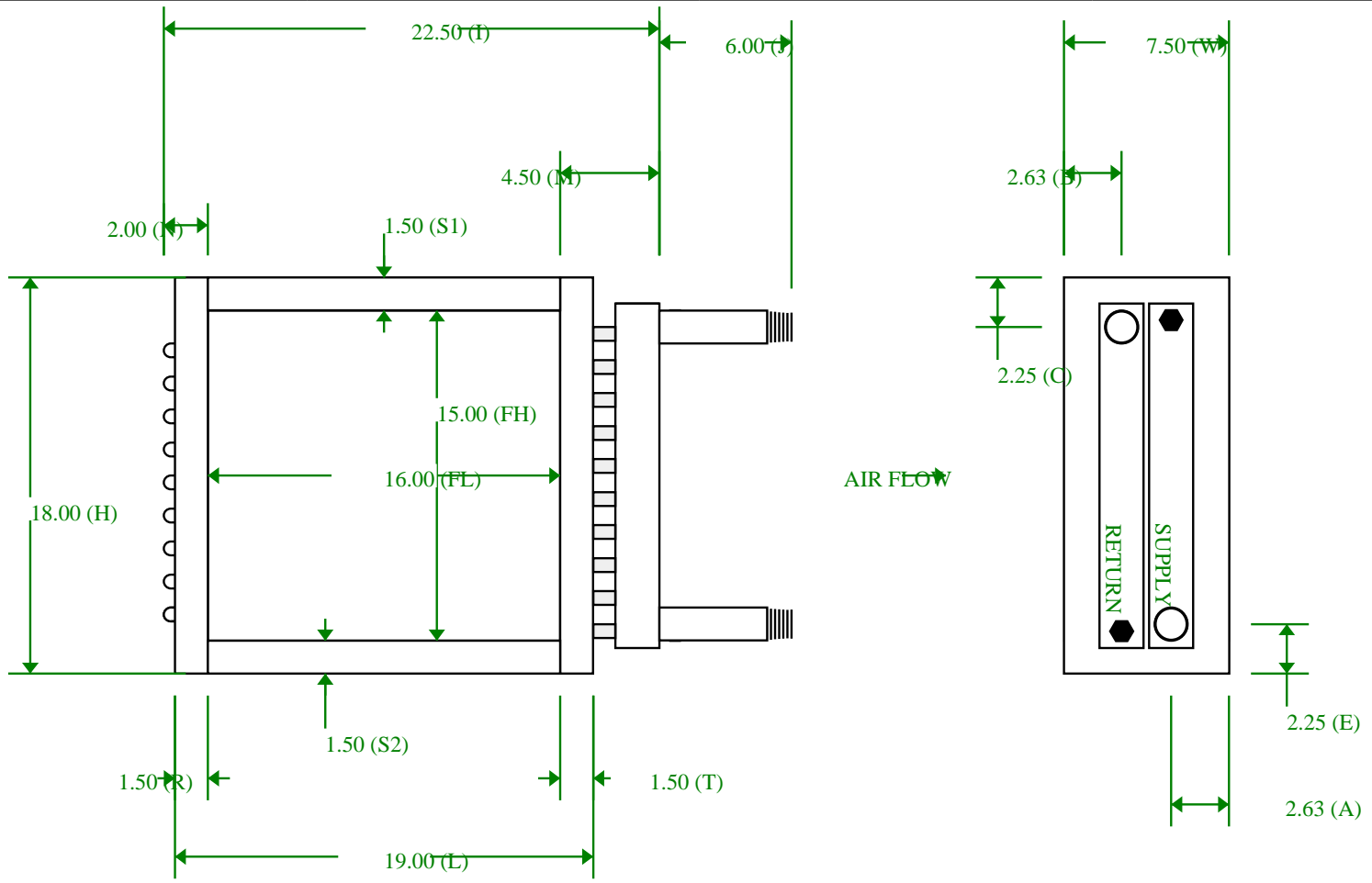
Tube material [in]: 0.035 Copper
 Fin material [in]: 0.0095 Aluminum
 Casing material: Galvanized Steel
 Hand: Right
 Conn. material: Carbon Steel
 Conn. type: MPT
 Conn. qty: 1
 Conn. size [in]: 1.50 Same End
 Weight [lbs]: 41.77



Heatcraft® heat transfer coils



Date: 01-05-2023
Item: RHC-4113C
Quantity: 1
Model: 5MI0802A - 18 x 21
Project: (116102) Eli Lilly - Building 4 Concord
Saved run ID: 2654690



General Notes

1. All dimensions are in inches.
2. Manually verifying dimensions is highly recommended.
3. The supply line should be connected to the lower connection on the leaving air side for counterflow operation.
4. Coils will vent and drain through factory-installed vent and drain fittings when mounted level for horizontal flow.
5. Connection location other than standard could affect vent and drain locations. Consult factory.

Options

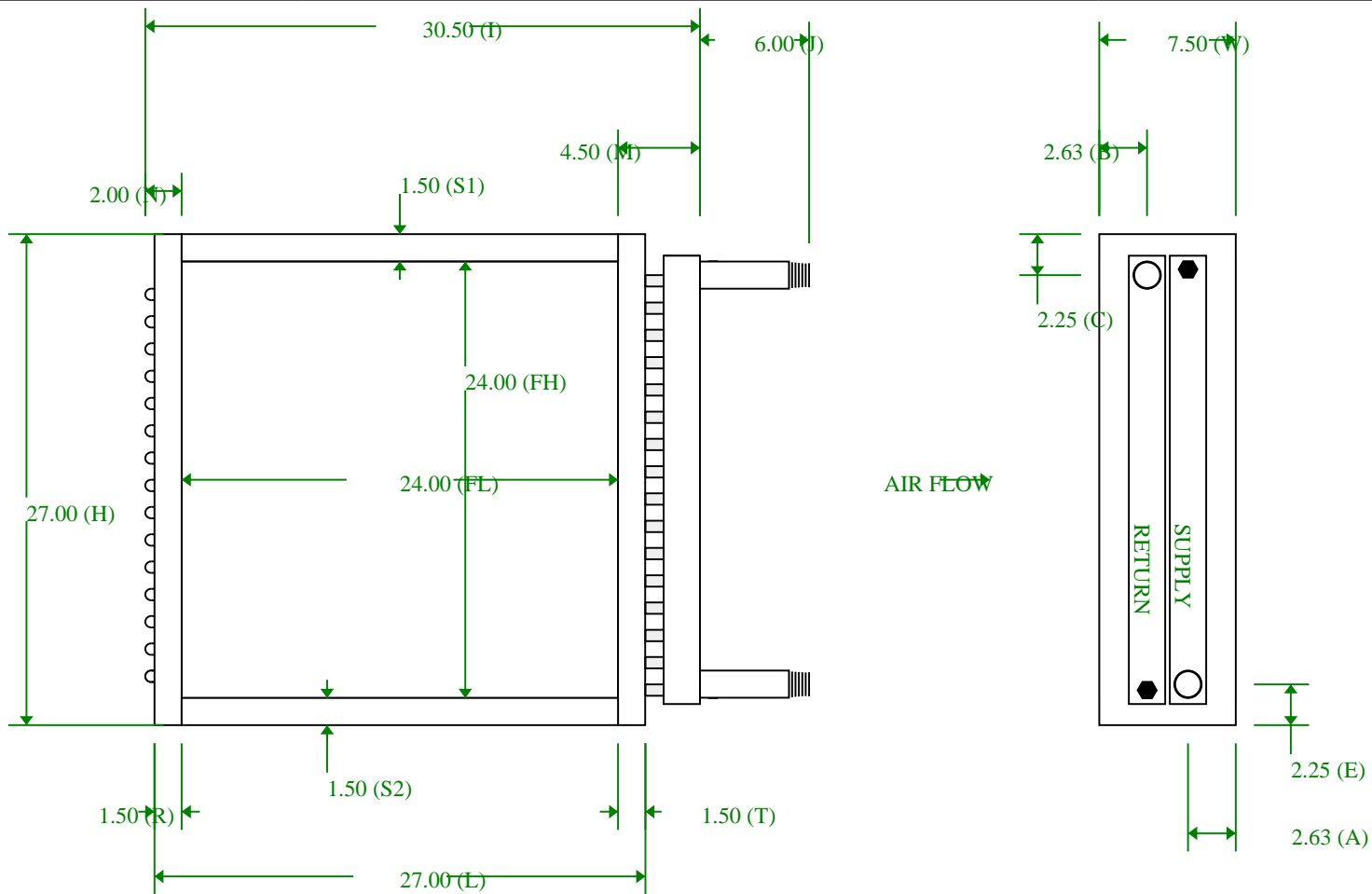
Casing type: Flanged
 Fluid: Water
 Vent/Drain: .50 FPT on Face

Materials of Construction

Tube material [in]: 0.035 Copper
 Fin material [in]: 0.0095 Aluminum
 Casing material: Galvanized Steel
 Hand: Right
 Conn. material: Carbon Steel
 Conn. type: MPT
 Conn. qty: 1
 Conn. size [in]: 1.50 Same End
 Weight [lbs]: 31.22



Date: 01-05-2023
Item: RHC-4121, 4213B
Quantity: 2
Model: 5MI0902A - 15 x 16
Project: (116102) Eli Lilly - Building 4 Concord
Saved run ID: 2654690



General Notes

1. All dimensions are in inches.
2. Manually verifying dimensions is highly recommended.
3. The supply line should be connected to the lower connection on the leaving air side for counterflow operation.
4. Coils will vent and drain through factory-installed vent and drain fittings when mounted level for horizontal flow.
5. Connection location other than standard could affect vent and drain locations. Consult factory.

Options

Casing type: Flanged
 Fluid: Water
 Vent/Drain: .50 FPT on Face

Materials of Construction

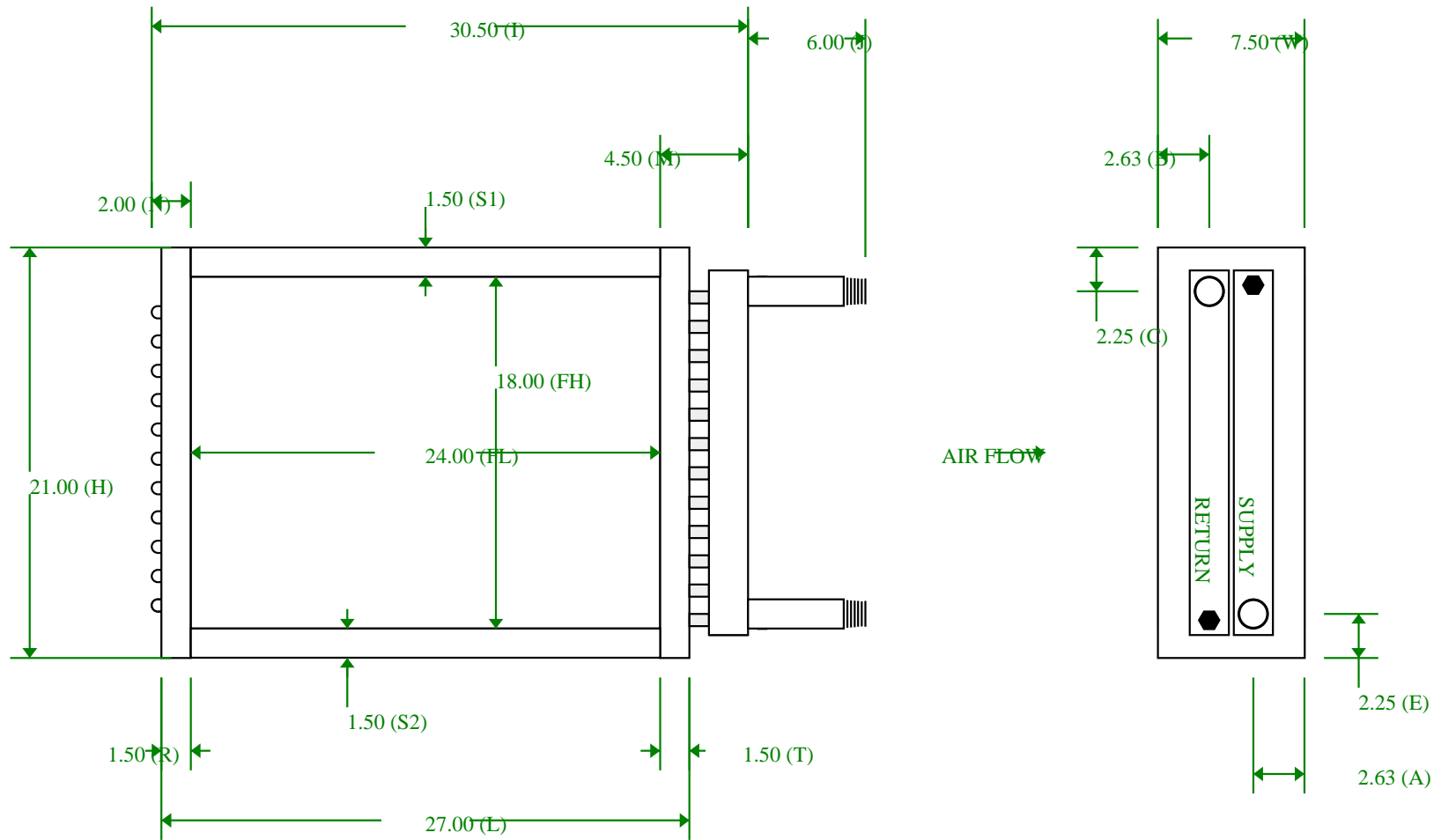
Tube material [in]: 0.035 Copper
 Fin material [in]: 0.0095 Aluminum
 Casing material: Galvanized Steel
 Hand: Right
 Conn. material: Carbon Steel
 Conn. type: MPT
 Conn. qty: 1
 Conn. size [in]: 1.50 Same End
 Weight [lbs]: 56.32



Heatcraft heat transfer coils



Date: 01-05-2023
Item: RHC-4123B
Quantity: 1
Model: 5MI0702B - 24 x 24
Project: (116102) Eli Lilly - Building 4 Concord
Saved run ID: 2654690



General Notes

1. All dimensions are in inches.
2. Manually verifying dimensions is highly recommended.
3. The supply line should be connected to the lower connection on the leaving air side for counterflow operation.
4. Coils will vent and drain through factory-installed vent and drain fittings when mounted level for horizontal flow.
5. Connection location other than standard could affect vent and drain locations. Consult factory.

Options

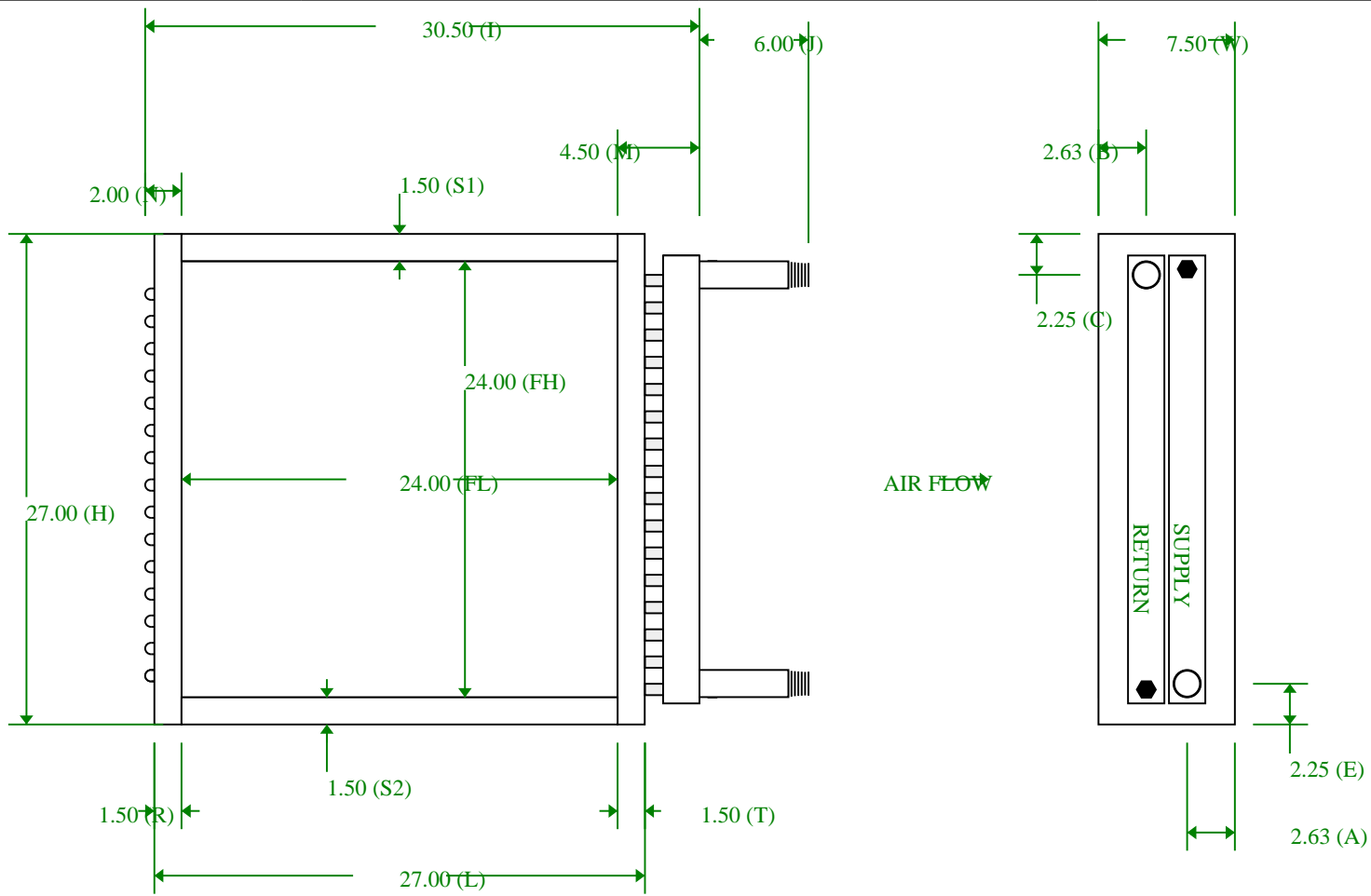
Casing type: Flanged
 Fluid: Water
 Vent/Drain: .50 FPT on Face

Materials of Construction

Tube material [in]: 0.035 Copper
 Fin material [in]: 0.0095 Aluminum
 Casing material: Galvanized Steel
 Hand: Right
 Conn. material: Carbon Steel
 Conn. type: MPT
 Conn. qty: 1
 Conn. size [in]: 1.50 Same End
 Weight [lbs]: 45.45



Date: 01-05-2023
Item: RHC-4211B
Quantity: 1
Model: 5MI0802A - 18 x 24
Project: (116102) Eli Lilly - Building 4 Concord
Saved run ID: 2654690



General Notes

1. All dimensions are in inches.
2. Manually verifying dimensions is highly recommended.
3. The supply line should be connected to the lower connection on the leaving air side for counterflow operation.
4. Coils will vent and drain through factory-installed vent and drain fittings when mounted level for horizontal flow.
5. Connection location other than standard could affect vent and drain locations. Consult factory.

Options

Casing type: Flanged
 Fluid: Water
 Vent/Drain: .50 FPT on Face

Materials of Construction

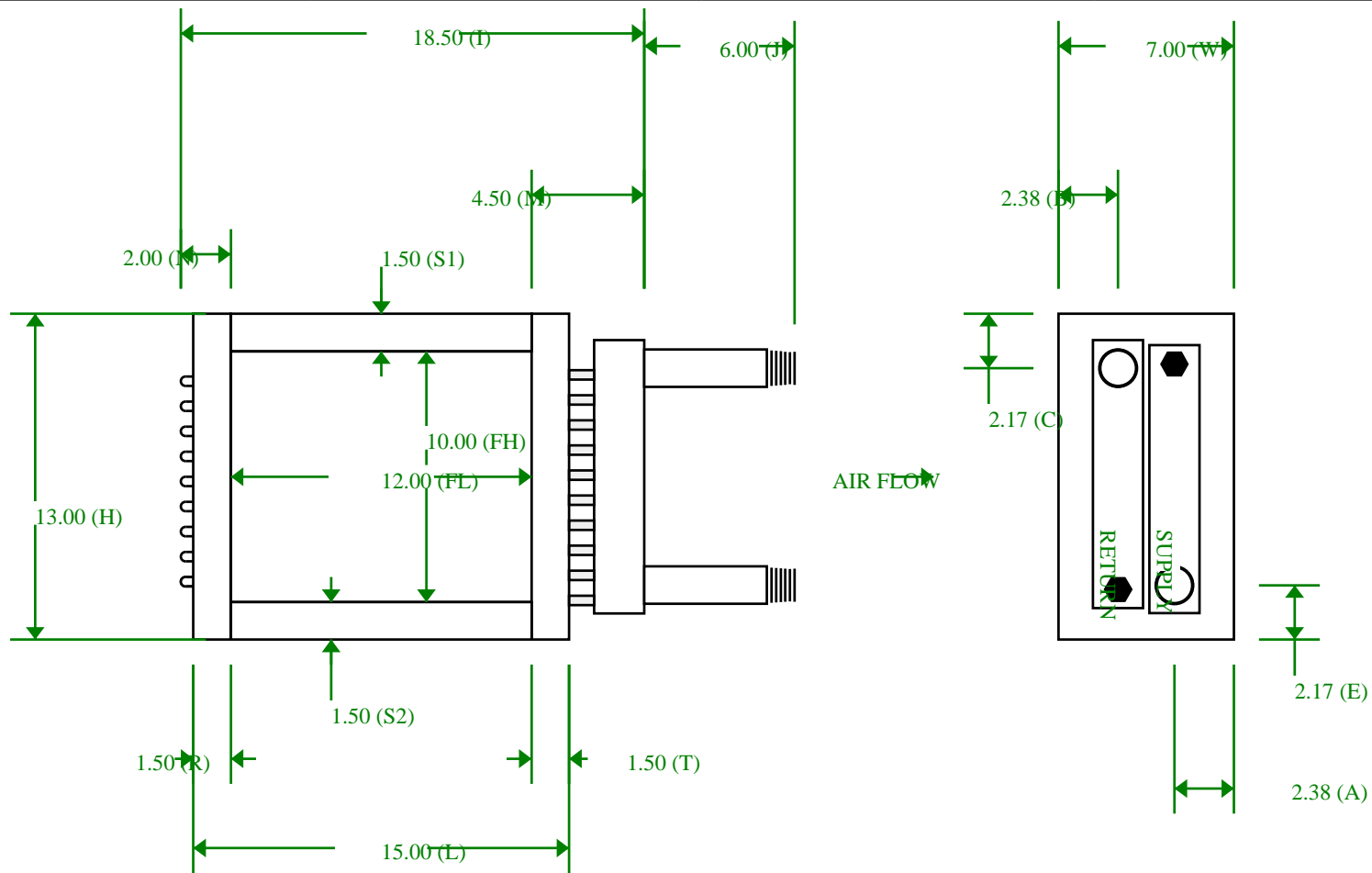
Tube material [in]: 0.035 Copper
 Fin material [in]: 0.0095 Aluminum
 Casing material: Galvanized Steel
 Hand: Right
 Conn. material: Carbon Steel
 Conn. type: MPT
 Conn. qty: 1
 Conn. size [in]: 1.50 Same End
 Weight [lbs]: 57.48



Heatcraft® heat transfer coils



Date: 01-05-2023
Item: RHC-4211C
Quantity: 1
Model: 5MI0802A - 24 x 24
Project: (116102) Eli Lilly - Building 4 Concord
Saved run ID: 2654690



General Notes

1. All dimensions are in inches.
2. Manually verifying dimensions is highly recommended.
3. The supply line should be connected to the lower connection on the leaving air side for counterflow operation.
4. Coils will vent and drain through factory-installed vent and drain fittings when mounted level for horizontal flow.
5. Connection location other than standard could affect vent and drain locations. Consult factory.

Options

Casing type: Flanged
 Fluid: Water
 Vent/Drain: .50 FPT on Face

Materials of Construction

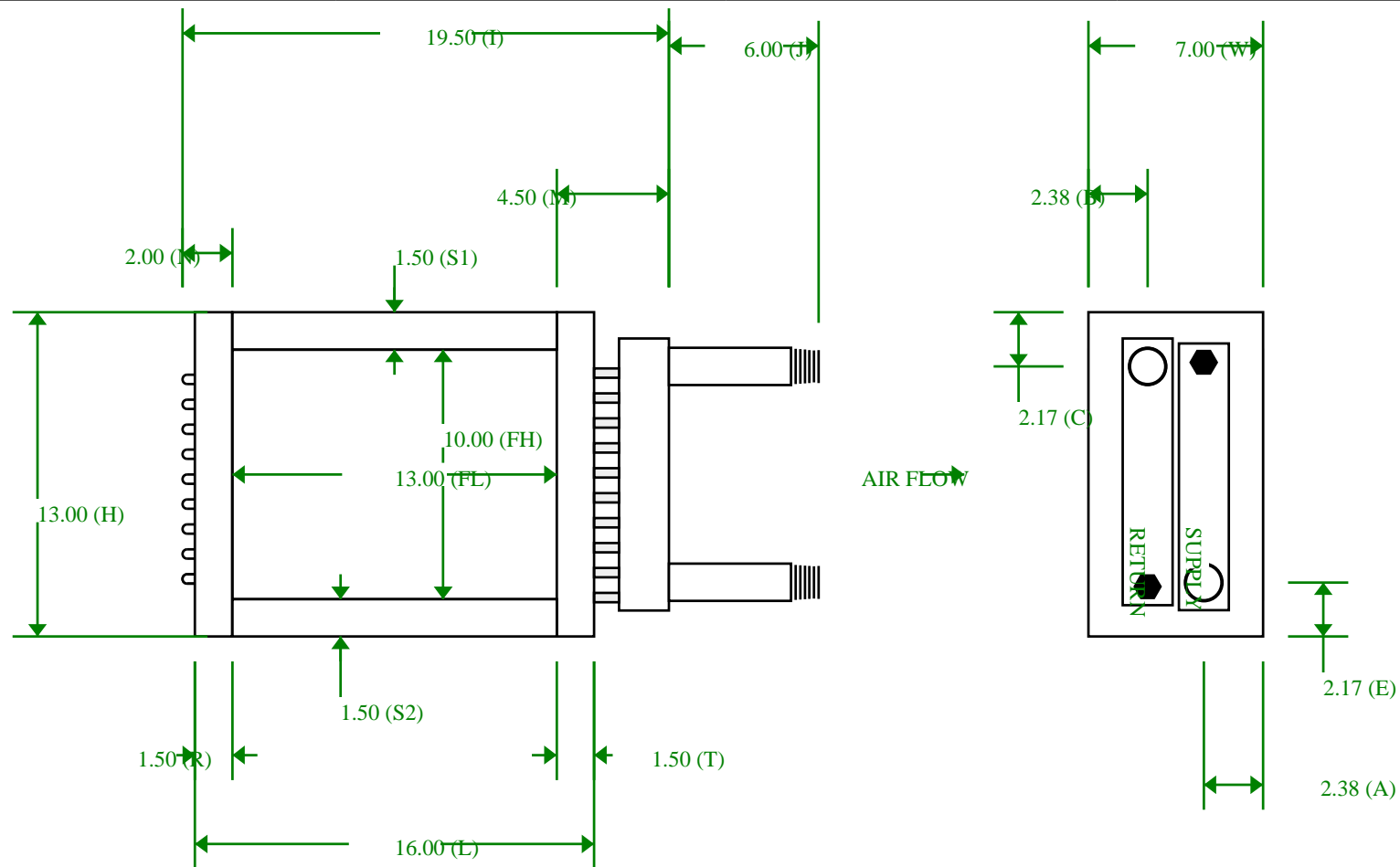
Tube material [in]: 0.030 Copper
 Fin material [in]: 0.0095 Aluminum
 Casing material: Galvanized Steel
 Hand: Right
 Conn. material: Carbon Steel
 Conn. type: MPT
 Conn. qty: 1
 Conn. size [in]: 1.50 Same End
 Weight [lbs]: 17.11



Heatcraft® heat transfer coils



Date: 01-05-2023
Item: RHC-4113A
Quantity: 1
Model: 3MI0702B - 10 x 12
Project: (116102) Eli Lilly - Building 4 Concord
Saved run ID: 2654690



General Notes

1. All dimensions are in inches.
2. Manually verifying dimensions is highly recommended.
3. The supply line should be connected to the lower connection on the leaving air side for counterflow operation.
4. Coils will vent and drain through factory-installed vent and drain fittings when mounted level for horizontal flow.
5. Connection location other than standard could affect vent and drain locations. Consult factory.

Options

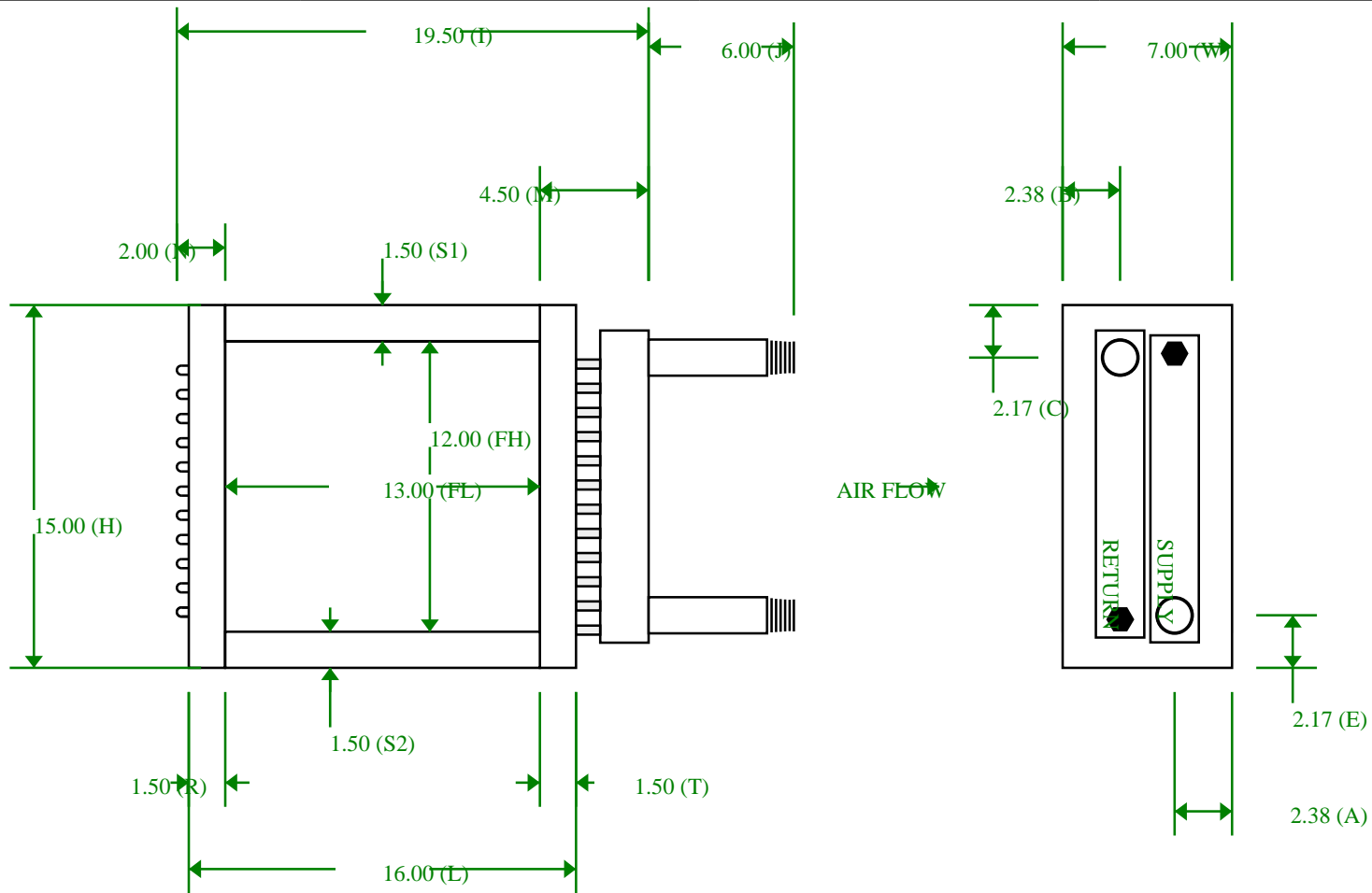
Casing type: Flanged
 Fluid: Water
 Vent/Drain: .50 FPT on Face

Materials of Construction

Tube material [in]: 0.030 Copper
 Fin material [in]: 0.0095 Aluminum
 Casing material: Galvanized Steel
 Hand: Right
 Conn. material: Carbon Steel
 Conn. type: MPT
 Conn. qty: 1
 Conn. size [in]: 1.50 Same End
 Weight [lbs]: 17.79



Date: 01-05-2023
Item: RHC-4117
Quantity: 1
Model: 3MI0702B - 10 x 13
Project: (116102) Eli Lilly - Building 4 Concord
Saved run ID: 2654690



General Notes

1. All dimensions are in inches.
2. Manually verifying dimensions is highly recommended.
3. The supply line should be connected to the lower connection on the leaving air side for counterflow operation.
4. Coils will vent and drain through factory-installed vent and drain fittings when mounted level for horizontal flow.
5. Connection location other than standard could affect vent and drain locations. Consult factory.

Options

Casing type: Flanged
 Fluid: Water
 Vent/Drain: .50 FPT on Face

Materials of Construction

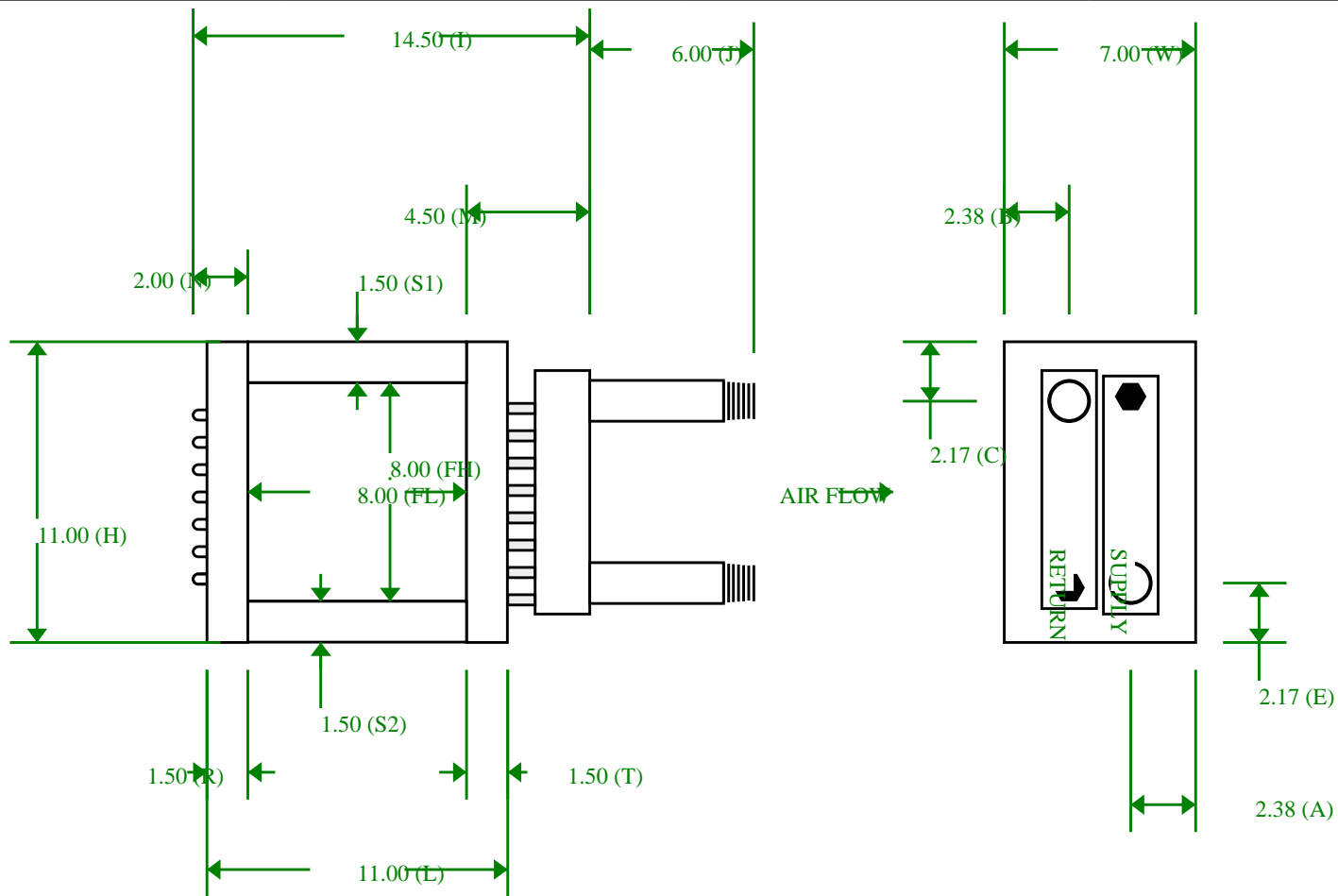
Tube material [in]: 0.030 Copper
 Fin material [in]: 0.0095 Aluminum
 Casing material: Galvanized Steel
 Hand: Right
 Conn. material: Carbon Steel
 Conn. type: MPT
 Conn. qty: 1
 Conn. size [in]: 1.50 Same End
 Weight [lbs]: 20.33



Heatcraft heat transfer coils



Date: 01-05-2023
Item: RHC-4124
Quantity: 1
Model: 3MI0702B - 12 x 13
Project: (116102) Eli Lilly - Building 4 Concord
Saved run ID: 2654690



General Notes

1. All dimensions are in inches.
2. Manually verifying dimensions is highly recommended.
3. The supply line should be connected to the lower connection on the leaving air side for counterflow operation.
4. Coils will vent and drain through factory-installed vent and drain fittings when mounted level for horizontal flow.
5. Connection location other than standard could affect vent and drain locations. Consult factory.

Options

Casing type: Flanged
 Fluid: Water
 Vent/Drain: .50 FPT on Face

Materials of Construction

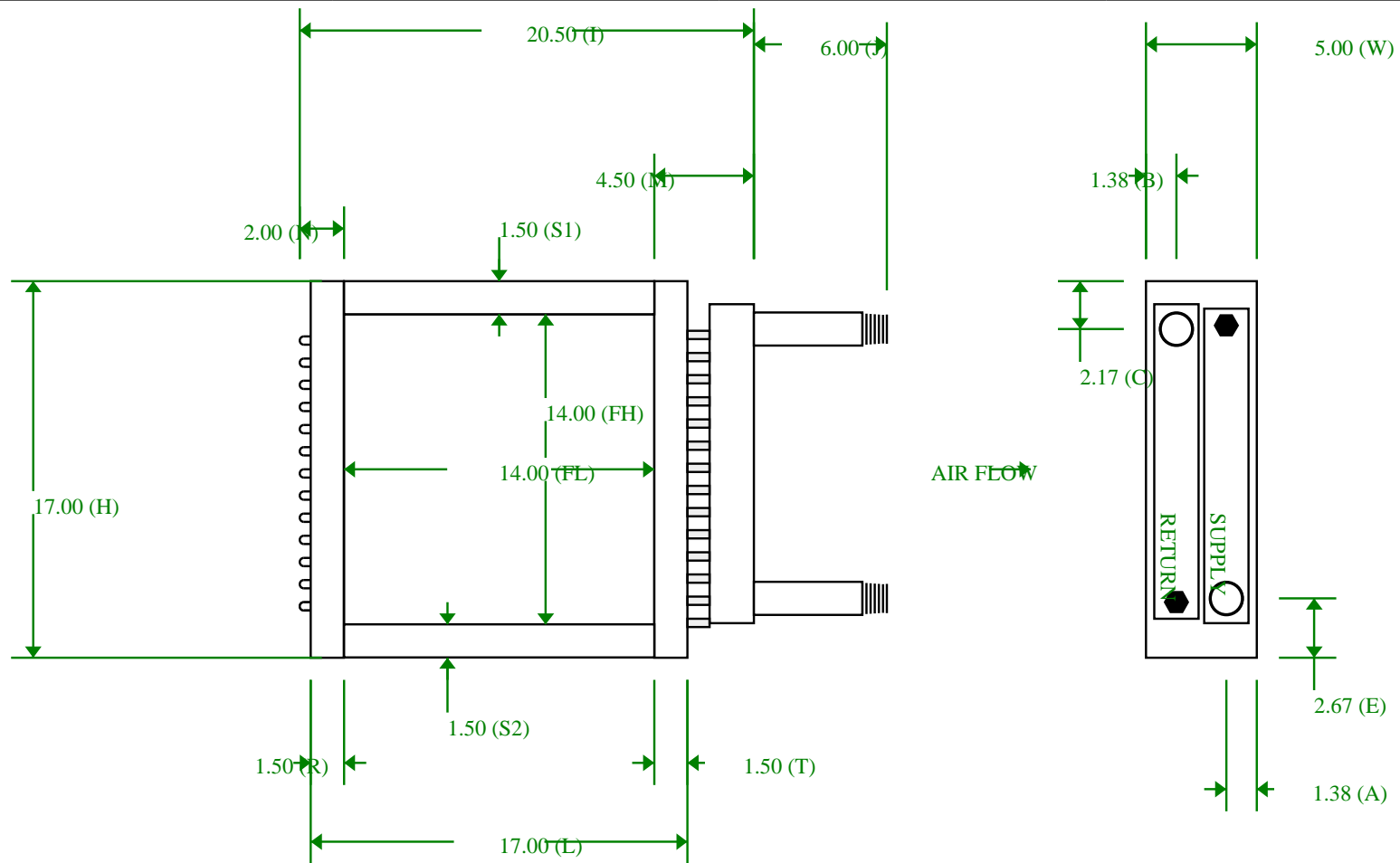
Tube material [in]: 0.030 Copper
 Fin material [in]: 0.0095 Aluminum
 Casing material: Galvanized Steel
 Hand: Right
 Conn. material: Carbon Steel
 Conn. type: MPT
 Conn. qty: 1
 Conn. size [in]: 1.50 Same End
 Weight [lbs]: 12.00



Heatcraft® heat transfer coils



Date: 01-05-2023
Item: RHC-4115
Quantity: 1
Model: 3MQ0602C - 8 x 8
Project: (116102) Eli Lilly - Building 4 Concord
Saved run ID: 2654690



General Notes

1. All dimensions are in inches.
2. Manually verifying dimensions is highly recommended.
3. The supply line should be connected to the lower connection on the leaving air side for counterflow operation.
4. Coils will vent and drain through factory-installed vent and drain fittings when mounted level for horizontal flow.
5. Connection location other than standard could affect vent and drain locations. Consult factory.

Options

Casing type: Flanged
 Fluid: Water
 Vent/Drain: .50 FPT on Face

Materials of Construction

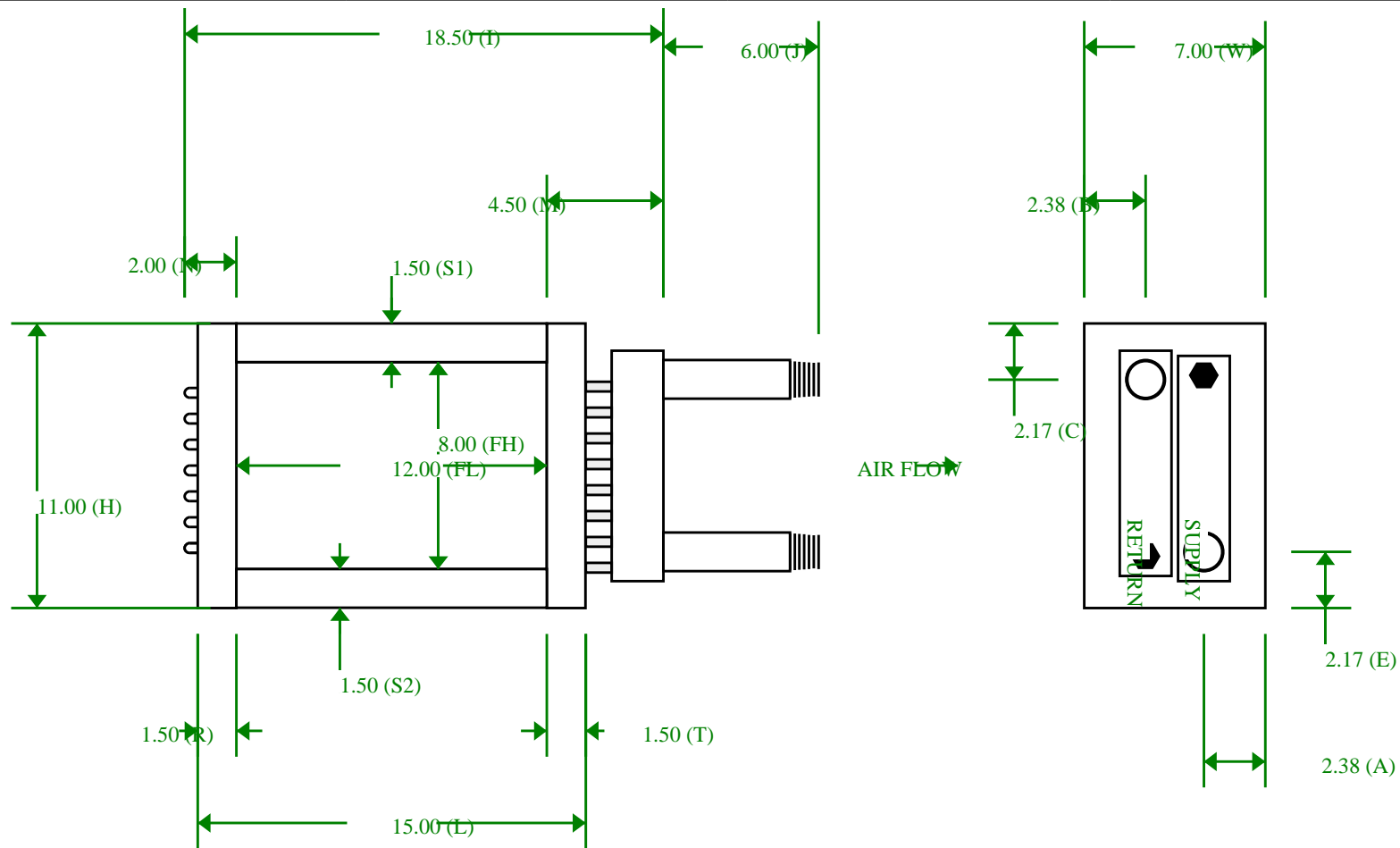
Tube material [in]: 0.030 Copper
 Fin material [in]: 0.0095 Aluminum
 Casing material: Galvanized Steel
 Hand: Right
 Conn. material: Carbon Steel
 Conn. type: MPT
 Conn. qty: 1
 Conn. size [in]: 1.50 Same End
 Weight [lbs]: 21.79



Heatcraft® heat transfer coils



Date: 01-05-2023
Item: RHC-4211A
Quantity: 1
Model: 3M1201C - 14 x 14
Project: (116102) Eli Lilly - Building 4 Concord
Saved run ID: 2654690



General Notes

1. All dimensions are in inches.
2. Manually verifying dimensions is highly recommended.
3. The supply line should be connected to the lower connection on the leaving air side for counterflow operation.
4. Coils will vent and drain through factory-installed vent and drain fittings when mounted level for horizontal flow.
5. Connection location other than standard could affect vent and drain locations. Consult factory.

Options

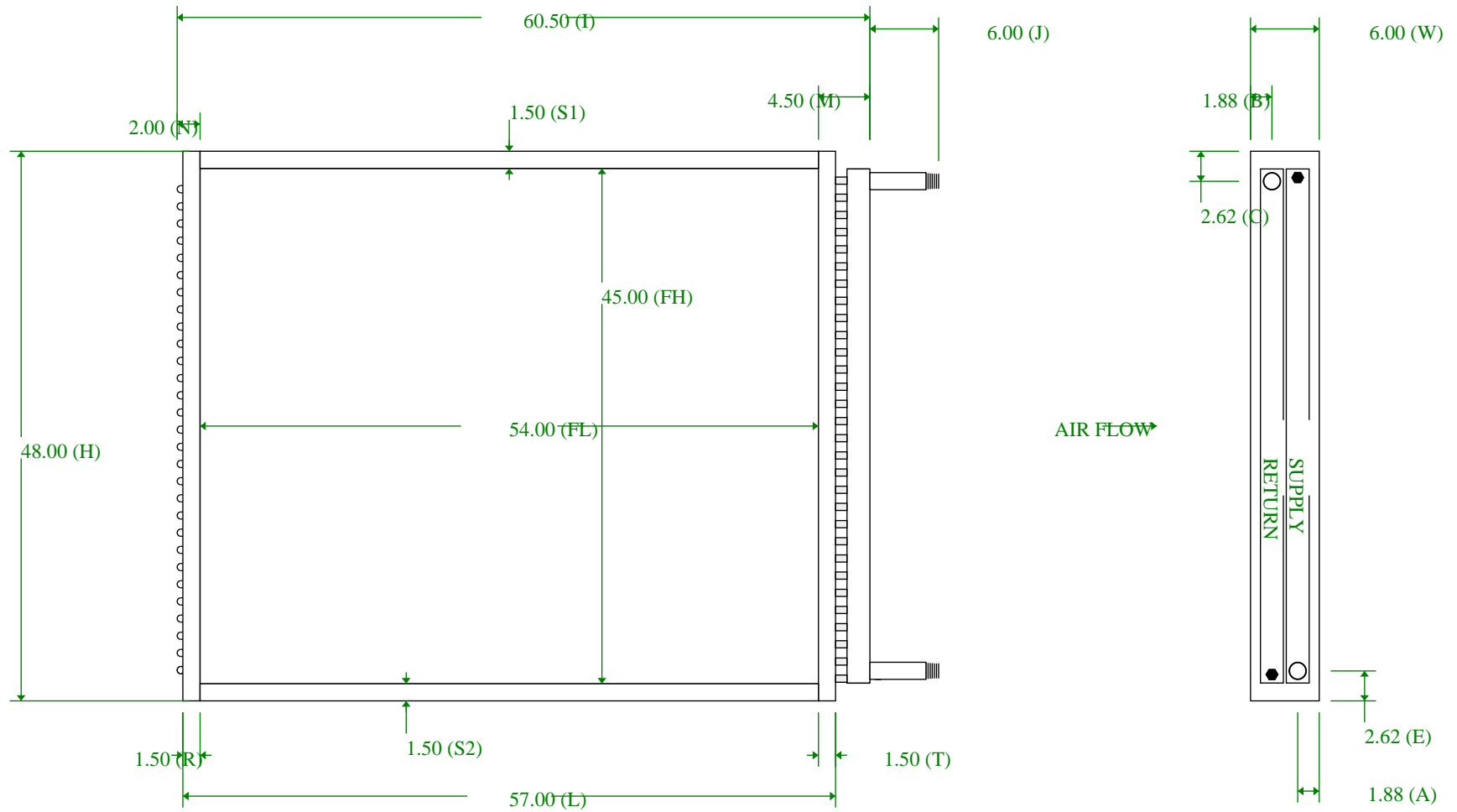
Casing type: Flanged
 Fluid: Water
 Vent/Drain: .50 FPT on Face

Materials of Construction

Tube material [in]: 0.030 Copper
 Fin material [in]: 0.0095 Aluminum
 Casing material: Galvanized Steel
 Hand: Right
 Conn. material: Carbon Steel
 Conn. type: MPT
 Conn. qty: 1
 Conn. size [in]: 1.50 Same End
 Weight [lbs]: 14.62



Date: 01-05-2023
Item: RHC-4213A
Quantity: 1
Model: 3MQ0702B - 8 x 12
Project: (116102) Eli Lilly - Building 4 Concord
Saved run ID: 2654690



General Notes

1. All dimensions are in inches.
2. Manually verifying dimensions is highly recommended.
3. One intermediate tube support fabricated from stock of the same material as the casing will be provided.
4. The supply line should be connected to the lower connection on the leaving air side for counterflow operation.
5. Coils will vent and drain through factory-installed vent and drain fittings when mounted level for horizontal flow.
6. Connection location other than standard could affect vent and drain locations. Consult factory.

Options

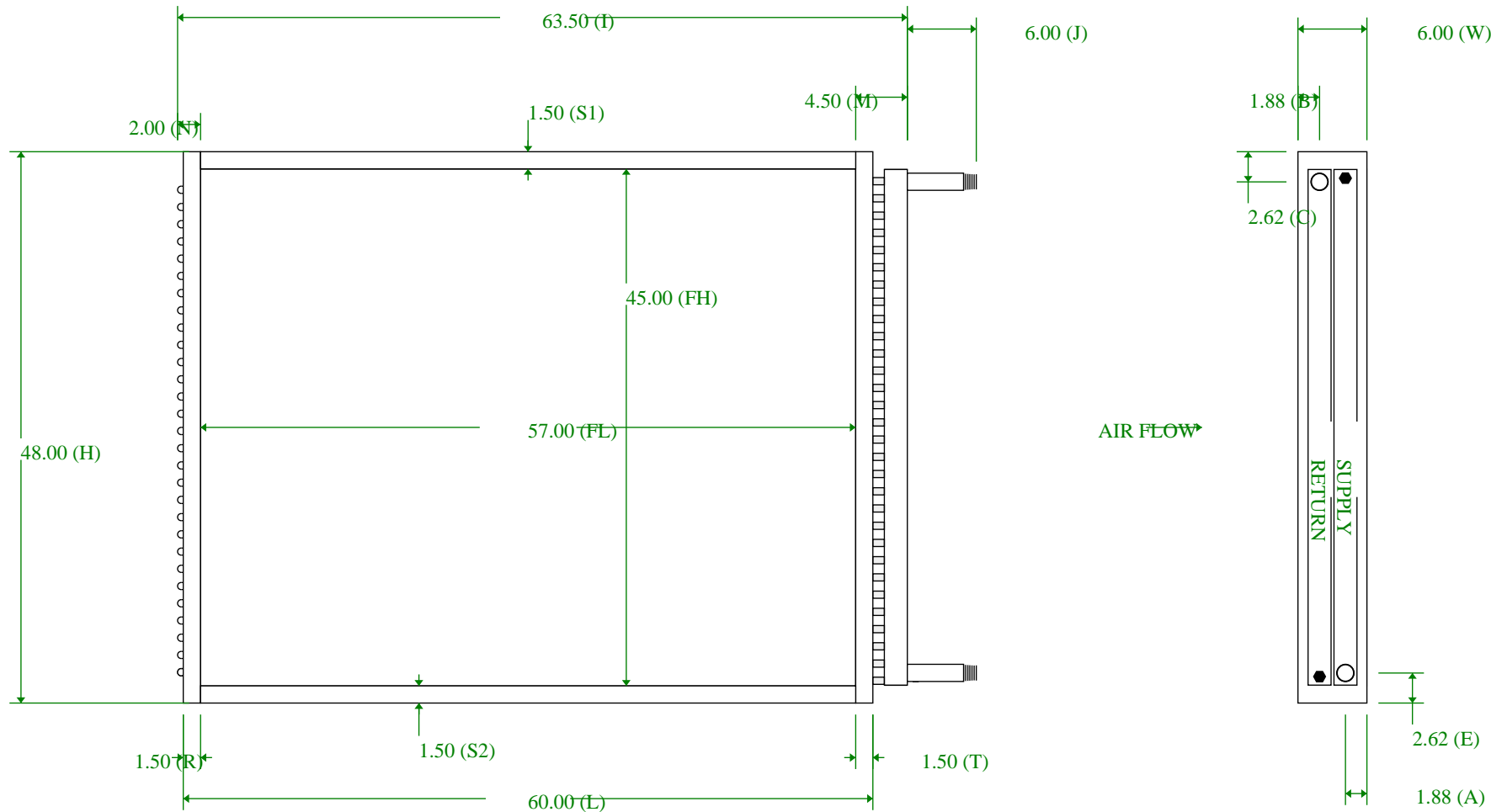
Casing type: Flanged
 Fluid: Water
 Vent/Drain: .50 FPT on Face

Materials of Construction

Tube material [in]: 0.035 Copper
 Fin material [in]: 0.0095 Aluminum
 Casing material: Galvanized Steel
 Hand: Right
 Conn. material: Carbon Steel
 Conn. type: MPT
 Conn. qty: 1
 Conn. size [in]: 1.50 Same End
 Weight [lbs]: 124.8



Date: 01-05-2023
Item: RHC-4910A
Quantity: 1
Model: 5MQ1101B - 45 x 54
Project: (116102) Eli Lilly - Building 4 Concord
Saved run ID: 2654690



General Notes

1. All dimensions are in inches.
2. Manually verifying dimensions is highly recommended.
3. One intermediate tube support fabricated from stock of the same material as the casing will be provided.
4. The supply line should be connected to the lower connection on the leaving air side for counterflow operation.
5. Coils will vent and drain through factory-installed vent and drain fittings when mounted level for horizontal flow.
6. Connection location other than standard could affect vent and drain locations. Consult factory.

Options

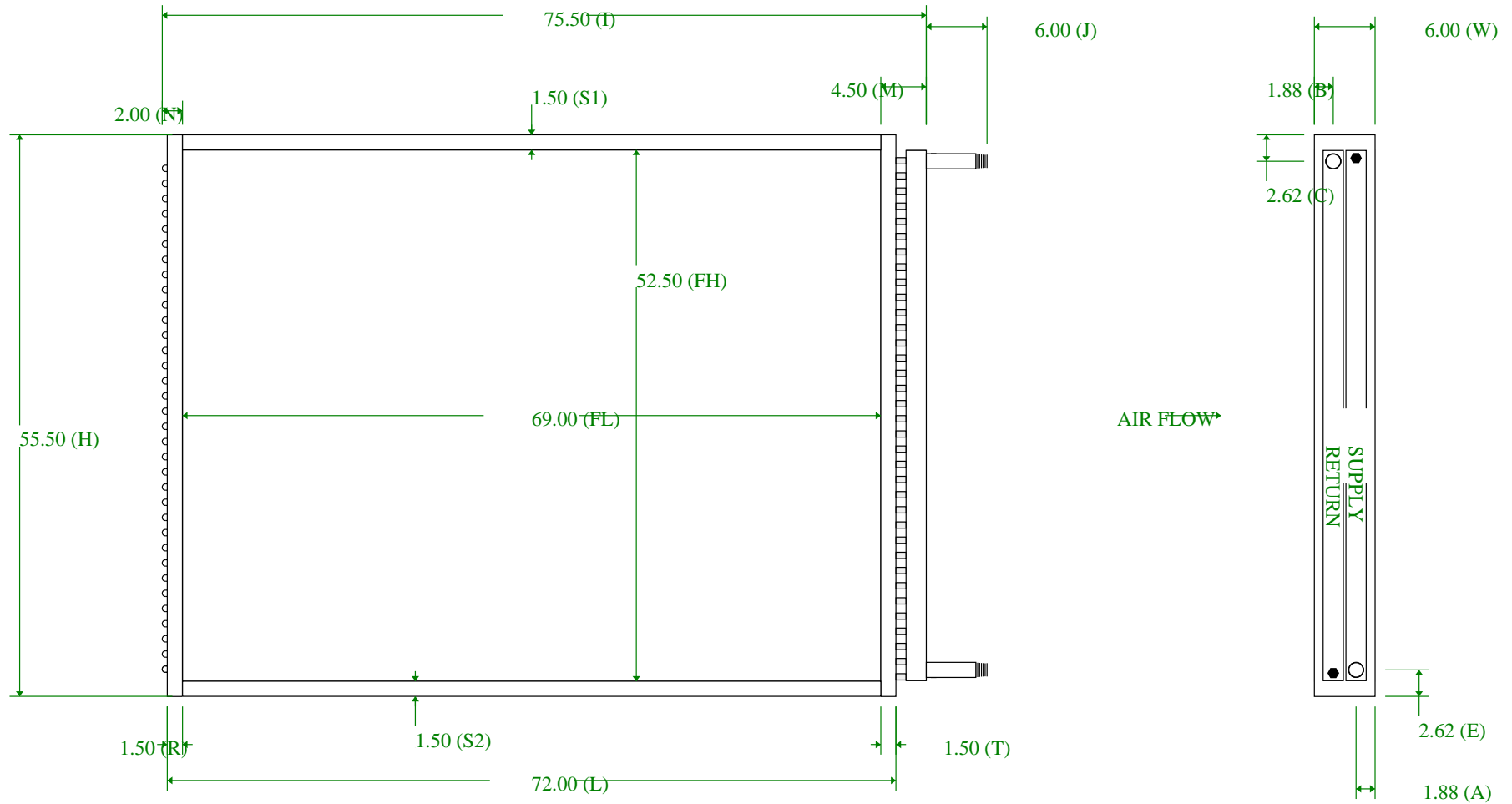
Casing type: Flanged
 Fluid: Water
 Vent/Drain: .50 FPT on Face

Materials of Construction

Tube material [in]: 0.035 Copper
 Fin material [in]: 0.0095 Aluminum
 Casing material: Galvanized Steel
 Hand: Right
 Conn. material: Carbon Steel
 Conn. type: MPT
 Conn. qty: 1
 Conn. size [in]: 1.50 Same End
 Weight [lbs]: 129.5



Date: 01-05-2023
Item: RHC-4910B
Quantity: 1
Model: 5MQ1101B - 45 x 57
Project: (116102) Eli Lilly - Building 4 Concord
Saved run ID: 2654690



General Notes

1. All dimensions are in inches.
2. Manually verifying dimensions is highly recommended.
3. One intermediate tube support fabricated from stock of the same material as the casing will be provided.
4. The supply line should be connected to the lower connection on the leaving air side for counterflow operation.
5. Coils will vent and drain through factory-installed vent and drain fittings when mounted level for horizontal flow.
6. Connection location other than standard could affect vent and drain locations. Consult factory.

Options

Casing type: Flanged
 Fluid: Water
 Vent/Drain: .50 FPT on Face

Materials of Construction

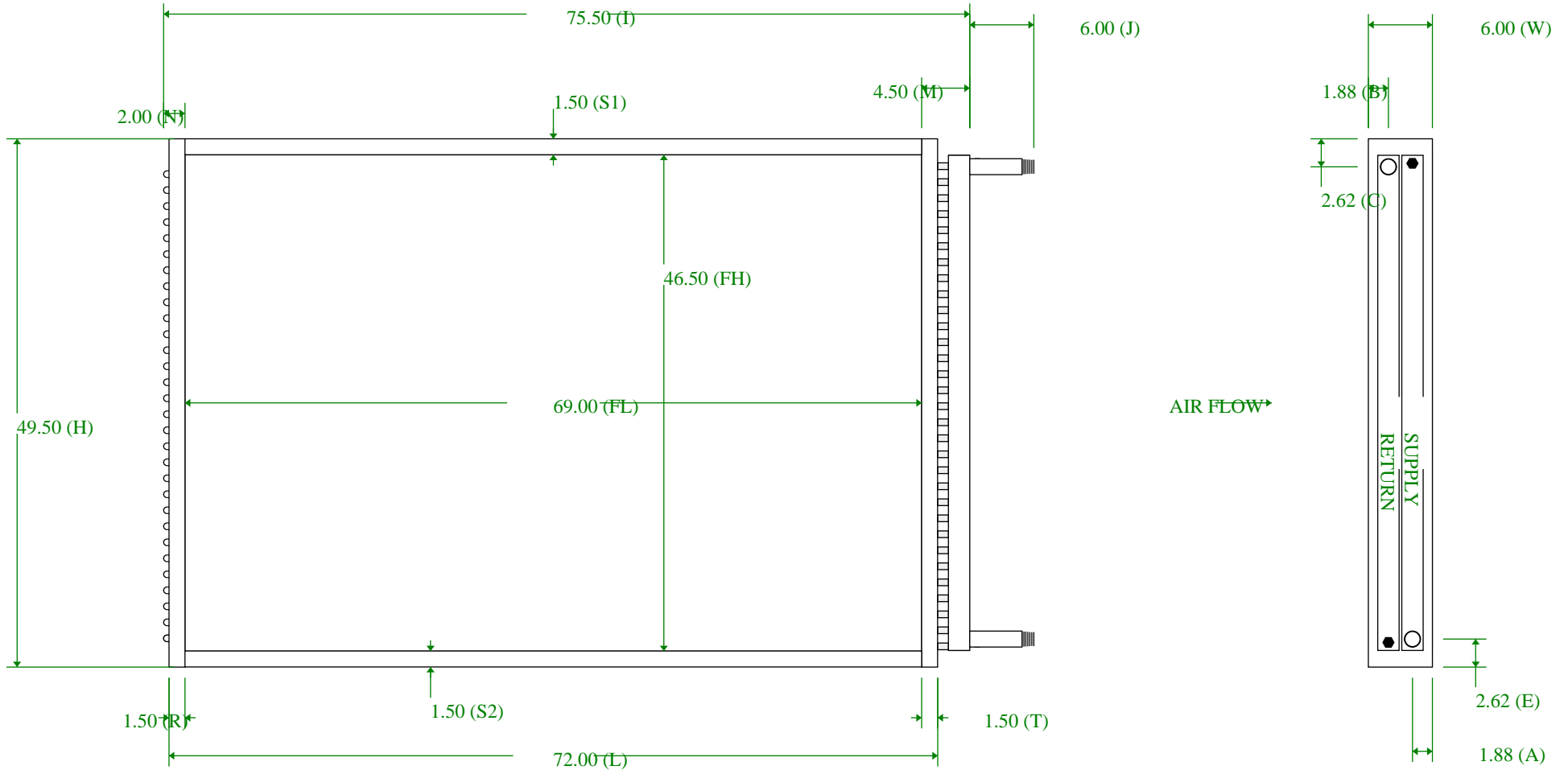
Tube material [in]: 0.035 Copper
 Fin material [in]: 0.0095 Aluminum
 Casing material: Galvanized Steel
 Hand: Right
 Conn. material: Carbon Steel
 Conn. type: MPT
 Conn. qty: 1
 Conn. size [in]: 1.50 Same End
 Weight [lbs]: 165.0



Heatcraft® heat transfer coils



Date: 01-05-2023
Item: RHC-4910C
Quantity: 1
Model: 5MQ1001B - 52.5 x 69
Project: (116102) Eli Lilly - Building 4 Concord
Saved run ID: 2654690



General Notes

1. All dimensions are in inches.
2. Manually verifying dimensions is highly recommended.
3. One intermediate tube support fabricated from stock of the same material as the casing will be provided.
4. The supply line should be connected to the lower connection on the leaving air side for counterflow operation.
5. Coils will vent and drain through factory-installed vent and drain fittings when mounted level for horizontal flow.
6. Connection location other than standard could affect vent and drain locations. Consult factory.

Options

Casing type: Flanged
 Fluid: Water
 Vent/Drain: .50 FPT on Face

Materials of Construction

Tube material [in]: 0.035 Copper
 Fin material [in]: 0.0095 Aluminum
 Casing material: Galvanized Steel
 Hand: Right
 Conn. material: Carbon Steel
 Conn. type: MPT
 Conn. qty: 1
 Conn. size [in]: 1.50 Same End
 Weight [lbs]: 149.2



Date: 01-05-2023
Item: RHC-4910D
Quantity: 1
Model: 5MQ1001B - 46.5 x 69
Project: (116102) Eli Lilly - Building 4 Concord
Saved run ID: 2654690