



Product Data

Project Name:	Sharonville Convention Center Expansion	Submittal Code:	236426.00-PD-00	REV: 00
Document Set:	Bid/Construction			
KLH Project #:	21108.00-Bid	Received Date:	02/15/2022	
Section Name:	Rotary-Screw Water Chillers			
Section Number:	236426.00			
Submitted By:	CT Consultants, Inc.			
Authored By:	Driekast Piping Corp			
Client Name:	CT Consultants, Inc.			

SUBMITTAL REVIEW

Exceptions Noted

By: Daniel R. Sharp Date: 03/14/2022

ENGINEER'S REVIEW IS FOR GENERAL CONFORMANCE WITH THE CONTRACT DOCUMENTS. COMMENTS DO NOT RELIEVE THE CONTRACTOR FROM COMPLIANCE WITH THE CONTRACT DOCUMENTS. THE CONTRACTOR REMAINS RESPONSIBLE FOR ACCURACY OF QUANTITIES, DIMENSIONS, DETAILS AND COORDINATION WITH OTHER TRADES.

General

- 1.1 No exceptions taken.

End of Submittal Review

Note: Additional submittals are not required where "Exceptions Noted" is indicated. It will be assumed however that all necessary corrections will be executed. Provide as-built record copies within OM Manuals at project close-out (not before) for all affected submittals.

*This Page
Intentionally
Left Blank*



DRIEKAST PIPING CORP

11290 SEBRING DRIVE CINCINNATI, OHIO 45240
PH. (513) 674-9110 FAX (513) 674-9113



SUBMITTAL

Project Name: Sharonville Convention Center Expansion		
Project Address: 11355 Chester Road	City, State: Cincinnati	Zip Code: 41016

General Contractor: Megan Construction			
Project Manager: Wes Dorger		Prepared By: Wes Dorger	
HVAC <input type="checkbox"/>	Plumbing <input type="checkbox"/>	Submittal #:	Date:1/10/2022
Specification #: 23-7713		Description: Chiller Submittal	

Reviewed

Reviewed as Noted

Revise & Resubmit

Sharonville Convention Center Expansion
City of Sharonville
11355 Chester Rd, Cincinnati, OH 45246

Chiller Submittal
Specification Section:
236426
Unit Tag(s):
CHIL-3

Prepared for:
KLH Engineers
1538 Alexandria Pike, Suite 11
Ft. Thomas, KY 41075

Sold To:
Driekast Piping Corporation
11290 Sebring Drive
Cincinnati, OH 45240

1/5/2022

Project Engineer:
Casey Topp
ElitAire
caseytopp@elitaire.com
cell 614-203-9908

Project Manager:
Max Rouse
ElitAire
mrouse@elitaire.com
cell 513-578-4430



General Notes:

Compressor-Motor

Dual single stage, rotary screw compressor
Dual hermetic, refrigerant cooled motors
Standard oil lubricated bearings
R-134A refrigerant

Evaporator

0.025" copper tube thickness
Marine waterbox w/ grooved connection
Thermal dispersion flow switch

Condenser

0.025" copper tube thickness
Marine waterbox w/ grooved connection
Thermal dispersion flow switch
Refrigerant isolation valves
Spring loaded relief valve

Motor Starter

Unit mounted variable frequency drive w/ NEMA 1 enclosure
Single point power w/ 65,000 SCCR disconnect switch
3 kVA transformer
Phase monitor
Under/over voltage protection

Controls

DDC microprocessor controller
21" Touch screen user interface
BACnet MSTP communication card
Control power transformer

Miscellaneous

0.75" closed cell foam insulation all cold surfaces
Neoprene isolators - **Field Installed by others**

Testing / Start-up / Warranty

Factory start-up and owner training
One year parts and labor warranty on entire unit

Notes/Clarifications

Final waterbox orientation to be determined during submittal process
Manual pressure indicators for the refrigerant pressures are not included
ARI load/ efficiency test is not included

Technical Data Sheet for CHIL-3



Job Information		Technical Data Sheet	
Job Name	Sharonville Convention Center Expansion		
Date	1/4/2022		
Submitted By	Ryan Halvorsen		
Software Version	17.60		
Unit Tag	CHIL-3		
Country of Origin	USA		

Unit Overview						
Model Number	Net Capacity ton	NPLV.iP kW/ton	Voltage	Starter Type	ASHRAE 90.1	LEED EA Credit 4
WWVRNNSASND	250.0	0.3800	460 v / 60 Hz / 3 Ph	VFD	'07, '10, '13 & '16	Qualifies

Unit							
Model/Evap/Cond Number:					WWVRNNSASND/E2410-GB2C-DZ-2/C2410-HB2C-1	Vintage:	A
Approval:					AHRI and ETL / cETL		
Vessel Code:					ASME		
Unit Shipping Weight		Unit Operating Weight		Overall Unit Length		Overall Unit Width	Overall Unit Height
10571 lb		14696 lb		162.0 in		61.6 in	99.6 in
Compressor Quantity		Capacity Control		Refrigerant Type		Refrigerant Weight	
1		VFD		R134a		408 lb	
Altitude		Chassis Class		Maximum Mechanical Room Ambient Temperature		Suction & Discharge Shut-off Valve	
0 to 3,280 ft		H		113.0 °F		With	
Evaporator							
Input Type		Entering Fluid Temperature	Leaving Fluid Temperature	Fluid Type	Actual Fluid Flow	Minimum Fluid Flow	
EWT + LWT		56.00 °F	42.00 °F	Water	427.4 gpm	249.3 gpm	
Length		Diameter	Number of Passes	Tube		Fouling Factor	
10 ft		24 in	2	Material	Wall Thickness	0.000100 °F.ft².h/Btu	
Copper		0.025 in					
Condenser							
Input Type		Entering Fluid Temperature	Leaving Fluid Temperature	Fluid Type		Fluid Flow	
EWT + LWT		85.00 °F	94.30 °F	Water		766.4 gpm	
Length		Diameter	Number of Passes	Tube		Fouling Factor	
10 ft		24 in	1	Material	Wall Thickness	0.000250 °F.ft².h/Btu	
Copper		0.025 in					

Unit Performance (AHRI 550/590)											
Design Points Rated with AHRI Condenser Relief – With Water											
Net Capacity ton	Input kW	Cooling Efficiency kW/ton	NPLV.iP kW/ton	Compr. RPS	Part Load Cooling Efficiency			Evaporator Fluid		Condenser Fluid	
					75% kW/ton	50% kW/ton	25% kW/ton	Pressure Drop ft H ₂ O	Entering Temperature °F	Pressure Drop ft H ₂ O	Leaving Temperature °F
250.0	161.1	0.6446	0.3800	63	0.4734	0.3314	0.3233	6.43	56.00	6.35	94.30

Technical Data Sheet for CHIL-3

Unit Performance (AHRI 550/590)													
Performance Points Rated with AHRI Condenser Relief – With Water													
Point #	% of Design Load	Net Capacity ton	Input kW	Cooling Efficiency kW/ton	Compr. RPS	Evaporator Fluid				Condenser Fluid			
						Flow gpm	Temperature		Pressure Drop ft H ₂ O	Flow gpm	Temperature		Pressure Drop ft H ₂ O
							Entering °F	Leaving °F			Entering °F	Leaving °F	
1	100.0	250.0	161.1	0.6446	63	427.4	56.00	42.00	6.43	766.4	85.00	94.30	6.35
2	90.0	225.0	127.2	0.5654	55	427.4	54.60	42.00	6.43	766.4	81.00	89.20	6.35
3	80.0	200.0	100.3	0.5014	48	427.4	53.20	42.00	6.43	766.4	77.00	84.17	6.36
4	70.0	175.0	78.21	0.4469	41	427.4	51.79	42.00	6.42	766.4	73.00	79.19	6.36
5	60.0	150.0	59.24	0.3949	35	427.4	50.39	42.00	6.42	766.4	69.00	74.23	6.37
6	50.0	125.0	41.43	0.3314	29	427.4	48.99	42.00	6.42	766.4	65.00	69.28	6.37
7	40.0	100.0	30.88	0.3088	24	427.4	47.59	42.00	6.42	766.4	65.00	68.41	6.37
8	30.0	75.00	22.98	0.3064	18	427.4	46.19	42.00	6.42	766.4	65.00	67.55	6.37
9	20.0	Chiller unable to run at requested load point (50 ton). The minimum capacity at the entered design conditions is (53 ton).											
10	10.0	Chiller unable to run at requested load point (25 ton). The minimum capacity at the entered design conditions is (53.6 ton). Cycle Diverged – the selection engine was unable to find a rating at your requested conditions. Please select different conditions or contact Factory as this may be a software bug.											

Service Data							
Service Points Rated with AHRI Condenser Relief							
Point #	Evaporator Fluid			Condenser Fluid			
	Temperature °F	Pressure psig	Velocity ft/s	Temperature °F	Pressure psig	Velocity ft/s	Velocity ft/s
1	41.1	36.1	3.5	98.8	124.3	3.7	3.7
2	41.1	36.1	3.5	93.1	112.6	3.7	3.7
3	41.1	36.1	3.5	87.6	102.2	3.7	3.7
4	41.1	36.1	3.5	82.3	92.8	3.7	3.7
5	41.1	36.1	3.5	77.1	84.0	3.7	3.7
6	41.1	36.1	3.5	72.0	76.0	3.7	3.7
7	41.1	36.1	3.5	70.9	74.3	3.7	3.7
8	41.1	36.1	3.5	69.5	72.2	3.7	3.7
9	Chiller unable to run at requested load point (50 ton). The minimum capacity at the entered design conditions is (53 ton).						
10	Chiller unable to run at requested load point (25 ton). The minimum capacity at the entered design conditions is (53.6 ton). Cycle Diverged – the selection engine was unable to find a rating at your requested conditions. Please select different conditions or contact Factory as this may be a software bug.						

Physical					
Evaporator					
Inlet Location	Header			Tube Sheet Material	Design Pressure (Waterside)
	Type	Orientation	Material		
Right	Marine Water Box, Grooved	Rear	Carbon Steel	Carbon Steel	150 psig
Condenser					
Inlet Location	Header			Tube Sheet Material	Design Pressure (Waterside)
	Type	Orientation	Material		
Left	Marine Water Box, Grooved	Front	Carbon Steel	Carbon Steel	150 psig

Electrical				
Voltage:	460 v / 60 Hz / 3 Ph		Power Connection:	Single Point
Rated Load Amps (RLA)	Minimum Circuit Ampacity (MCA)	Recommended Overcurrent Protection Size (ROCP)	Maximum Overcurrent Protection Size (MOCP)	Lug Connection Size (wires per phase)
230 A	289 A	350 A	500 A	(2) 3/0-250MCM
<i>Above RLA, MCA, MOCP & LRA values are per compressor.</i>				

Technical Data Sheet for CHIL-3

Drive				
Type	Model	Location	Enclosure Type	Motor Protection
VFD	VFD102N250T4	Unit Mounted	NEMA 1	Standard
Short Circuit Current Rating			Approval	
65 KA			ETL, ETLc	

Sound (individual chiller) (without insulation)										
Sound Pressure										
Point #	% of Design Load	63 Hz	125 Hz	250 Hz	500 Hz	1 kHz	2 kHz	4 kHz	8 kHz	Overall
1	100.0	52	61	73	80	83	82	76	66	87
2	90.0	52	60	79	80	81	79	74	62	86
3	80.0	51	60	80	80	80	77	72	60	86
4	70.0	51	60	74	77	78	74	71	57	83
5	60.0	51	60	70	75	78	72	69	56	81
6	50.0	50	61	67	74	78	70	68	54	80
7	40.0	50	61	66	71	73	68	66	54	77
8	30.0	50	61	67	68	69	66	63	54	74
9	21.4	50	59	68	68	68	65	61	54	74
10	20.0	Chiller unable to run at requested load point (50 ton). The minimum capacity at the entered design conditions is (53 ton).								
11	10.0	Chiller unable to run at requested load point (25 ton). The minimum capacity at the entered design conditions is (53.6 ton). Cycle Diverged – the selection engine was unable to find a rating at your requested conditions. Please select different conditions or contact Factory as this may be a software bug.								

One-third Octave Band																									
Point #	% Load	50 Hz	63 Hz	80 Hz	100 Hz	125 Hz	160 Hz	200 Hz	250 Hz	315 Hz	400 Hz	500 Hz	630 Hz	800 Hz	1 kHz	1.25 kHz	1.6 kHz	2 kHz	2.5 kHz	3.15 kHz	4 kHz	5 kHz	6.3 kHz	8 kHz	10 kHz
1	100.0	42	48	48	49	58	56	58	61	73	78	68	75	81	76	76	77	76	77	74	70	67	65	60	55
2	90.0	42	48	48	50	57	56	57	66	79	75	68	78	77	76	75	74	74	74	72	67	64	61	56	51
3	80.0	42	47	48	50	57	56	57	71	80	72	69	79	75	74	76	73	72	71	70	65	61	58	53	48
4	70.0	42	47	48	49	57	56	60	73	67	70	68	75	77	71	70	70	70	68	69	63	60	56	51	46
5	60.0	42	47	47	49	57	57	60	67	65	70	68	73	76	73	69	68	68	67	68	61	58	54	48	43
6	50.0	41	47	46	49	57	58	60	60	65	69	67	71	74	74	69	67	65	65	67	60	56	53	46	41
7	40.0	39	46	47	51	59	56	58	63	63	67	64	67	69	69	66	64	63	63	65	58	54	53	46	41
8	30.0	37	46	48	51	59	54	56	64	63	65	62	63	64	65	63	62	61	60	61	57	52	53	45	40
9	21.4	37	45	48	48	57	54	55	64	65	64	61	63	63	64	63	61	60	58	58	57	52	53	44	39
10	20.0	Chiller unable to run at requested load point (50 ton). The minimum capacity at the entered design conditions is (53 ton).																							
11	10.0	Chiller unable to run at requested load point (25 ton). The minimum capacity at the entered design conditions is (53.6 ton). Cycle Diverged – the selection engine was unable to find a rating at your requested conditions. Please select different conditions or contact Factory as this may be a software bug.																							

Sound Pressure (dB) measured in accordance with ANSI/AHRI Standard 575-2008 ('A' weighted)

Options	
Basic Unit	
Packaging:	Bagging only
Knockdown:	Type A; Fully Assembled Bolted Construction
Water Flow Indicators:	Both Evap. and Cond. (Thermal Dispersion)
Insulation	
Thermal:	0.75" on Evaporator Shell, Suction Piping, Compressor Inlet, Motor Barrel & High Humidity
Head:	Evaporator Return & Connection Heads
Control	
Communication Protocol:	BACnet MS/TP

Technical Data Sheet for CHIL-3

Warranty

Unit Startup:	Domestic by Daikin Factory Service (Std.)
Standard Warranty:	Domestic, First Year Standard Warranty (Parts & Labor)
Extended Warranty:	None
Refrigerant Warranty:	None
Delayed Warranty Start:	None (Startup 12-18 months after ship date)

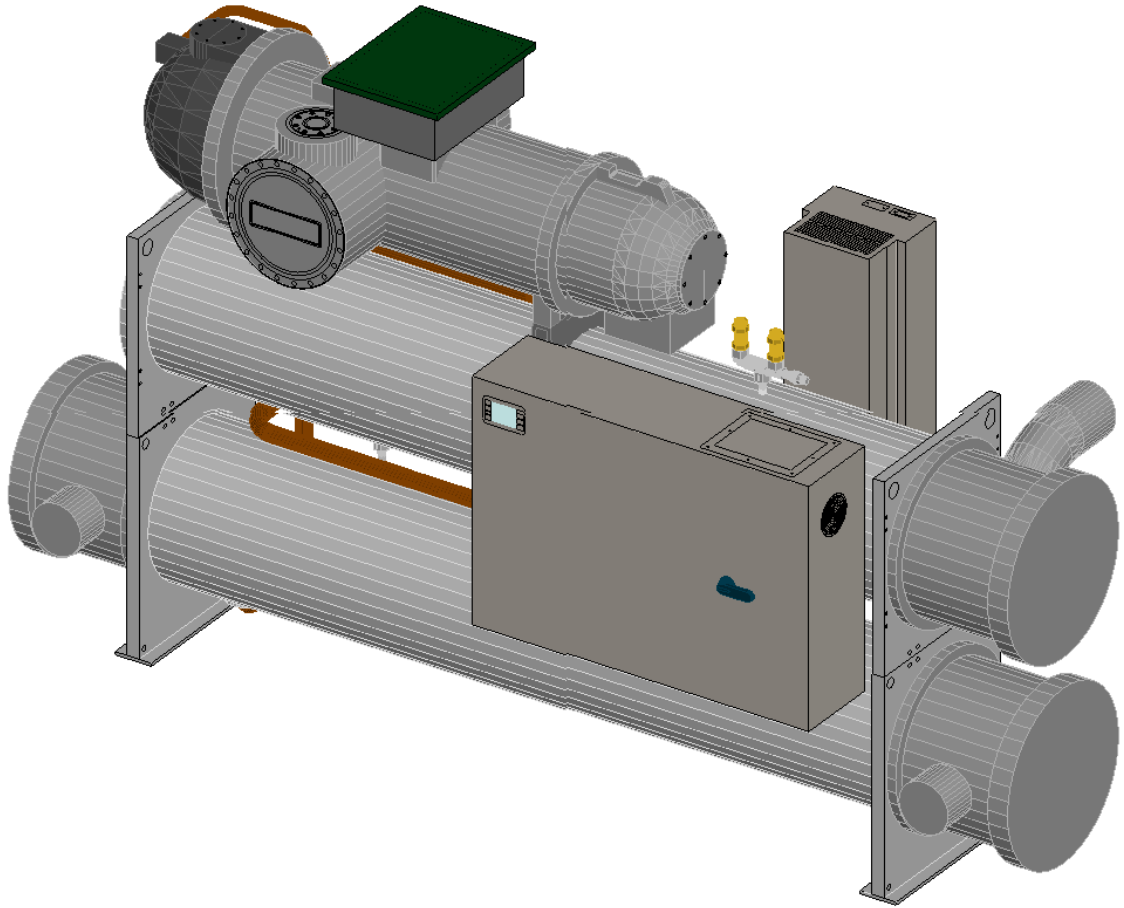
AHRI Certification



Certified in accordance with the AHRI Water-Cooled Water-Chilling and Heat Pump Water-Heating Packages Certification Program, which is based on AHRI Standard 550/590 (I-P) and AHRI Standard 551/591 (SI). Certified units may be found in the AHRI Directory at www.ahridirectory.org.

Notes

1. Above RLA, MCA, MOCP & LRA values are per compressor..
2. Performance kW & kW/ton values are total values unless noted otherwise.
3. Minimum flow is based upon standard condenser water relief and not increased lift due to constant condenser water temperature.
4. This model utilizes a water cooled oil cooler as standard equipment.
5. The USGBC bases its LEED EA credit 4 calculations for Enhanced Refrigerant Management on the default values for a water cooled centrifugal chiller with a 25-year life, 10% end of life loss and 2% annual leak rate. The gross AHRI cooling capacity for the unit is at least 10 tons, and the refrigerant charge is 10 lbs.
6. The LEED result above considers the chiller only. When applying this information for credit or prerequisite compliance the entire building must be considered.
7. Power wiring connections to the chiller may be done with either copper or aluminum wiring. Copper wire should be sized and installed per the required version of NEC and/or local codes. Aluminum wire shall be installed in accordance with the required version of NECA/AA 104, Standard for Installing Aluminum Building Wire and Cable (ANSI).
8. For orientation purposes, left and right hand vessel connection locations are determined by facing the electrical panel. The unit front is the long dimension side with the electrical panel and rear is the opposite side long dimension.




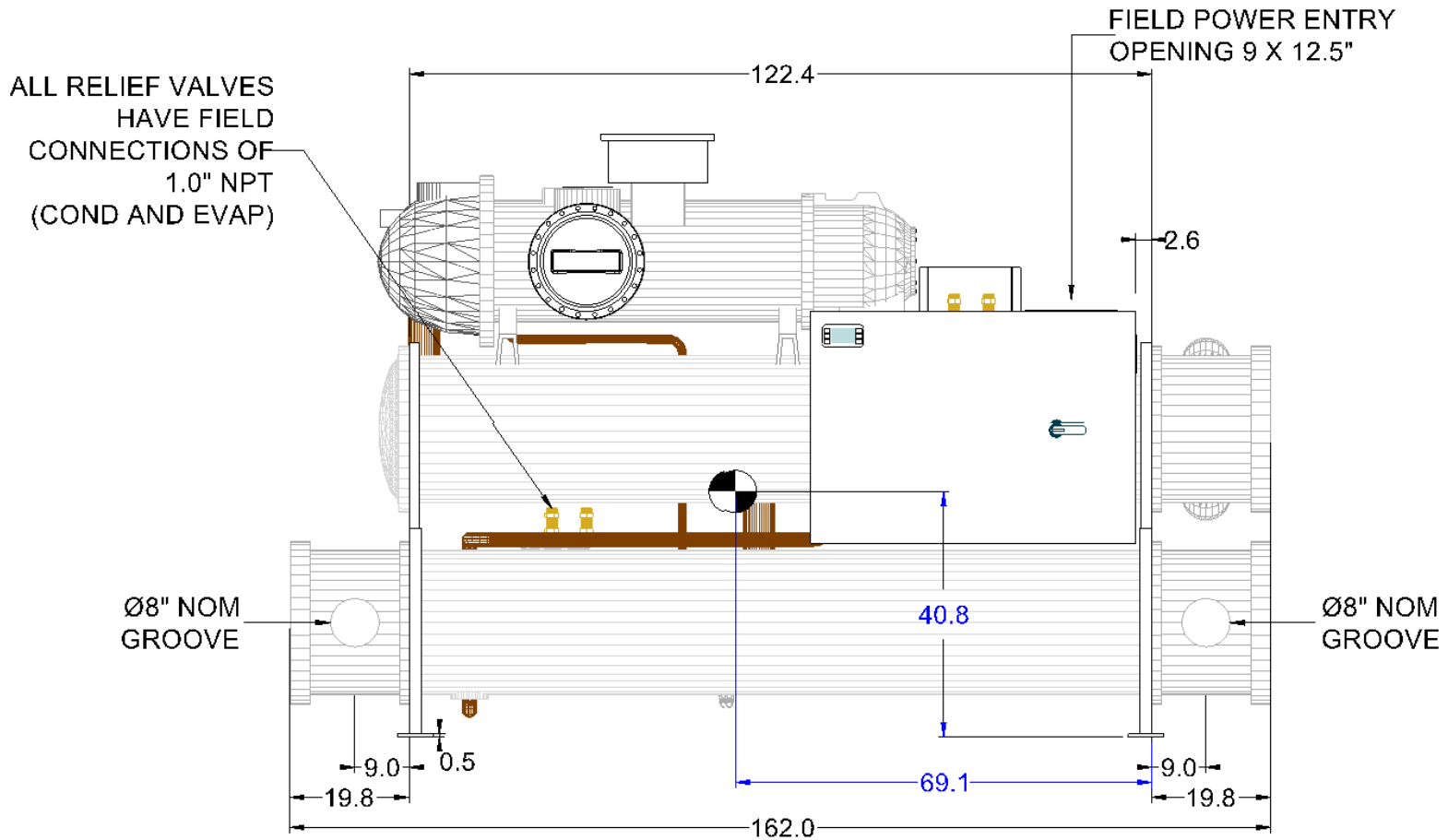
Job Number: XHQD8
 Job Name: Sharonville Convention Center


Page 7 of 18

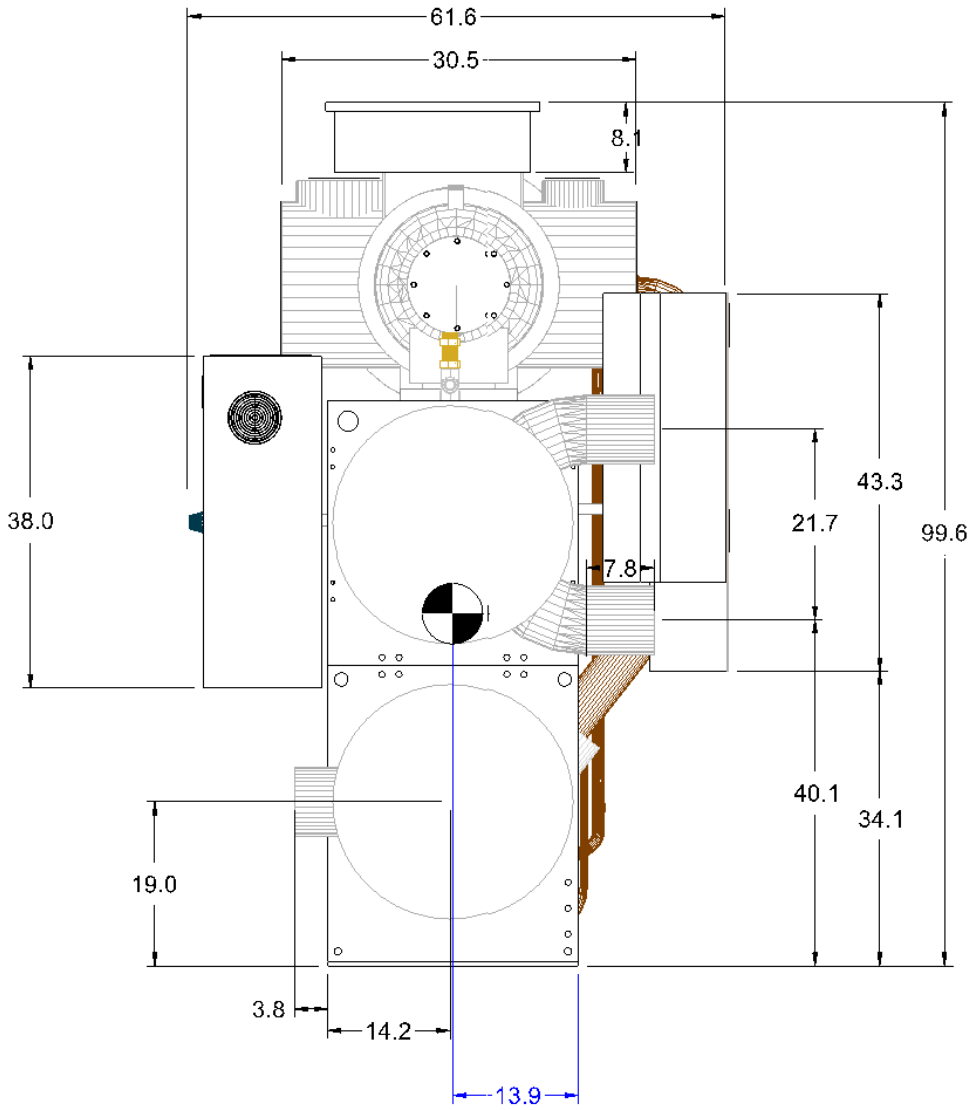
Prepared Date:


1/4/2022
 www.DaikinApplied.com

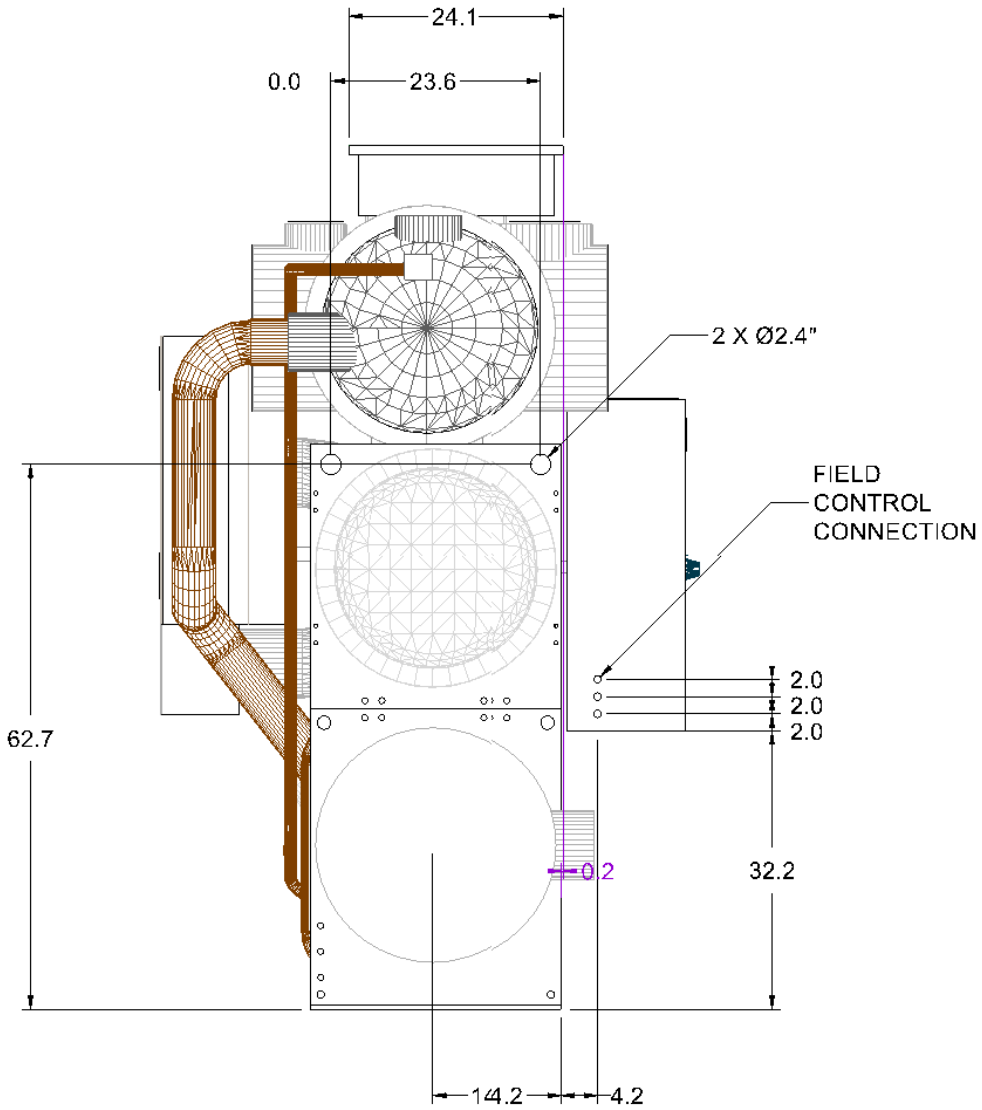
Model View	Unit Tag: CHIL-3	Sales Office: ElitAire, Inc.			 13600 Industrial Park Blvd. Minneapolis, MN 55441 www.DaikinApplied.com Software Version: 17.60	
Product: Navigator® Chiller	Project Name: Sharonville Convention	Sales Engineer:				
Model: WVVRRNSASND/E2410-GB2C-DZ-2/C2410-HB2C-1-U	Jan. 04, 2022	Ver/Rev:	Sheet: 1 of 1	Scale: NTS	Tolerance: +/- 1.0"	Dwg Units: In
WVVRRNSASNAC00460H6A/E2410GB2CR2VHN4A/C2410HB2CL1VFN4A/SNA03800						
No change to this drawing may be made unless approved in writing by Daikin Applied. Purchaser must determine that the equipment is fit and sufficient for the job specifications.						




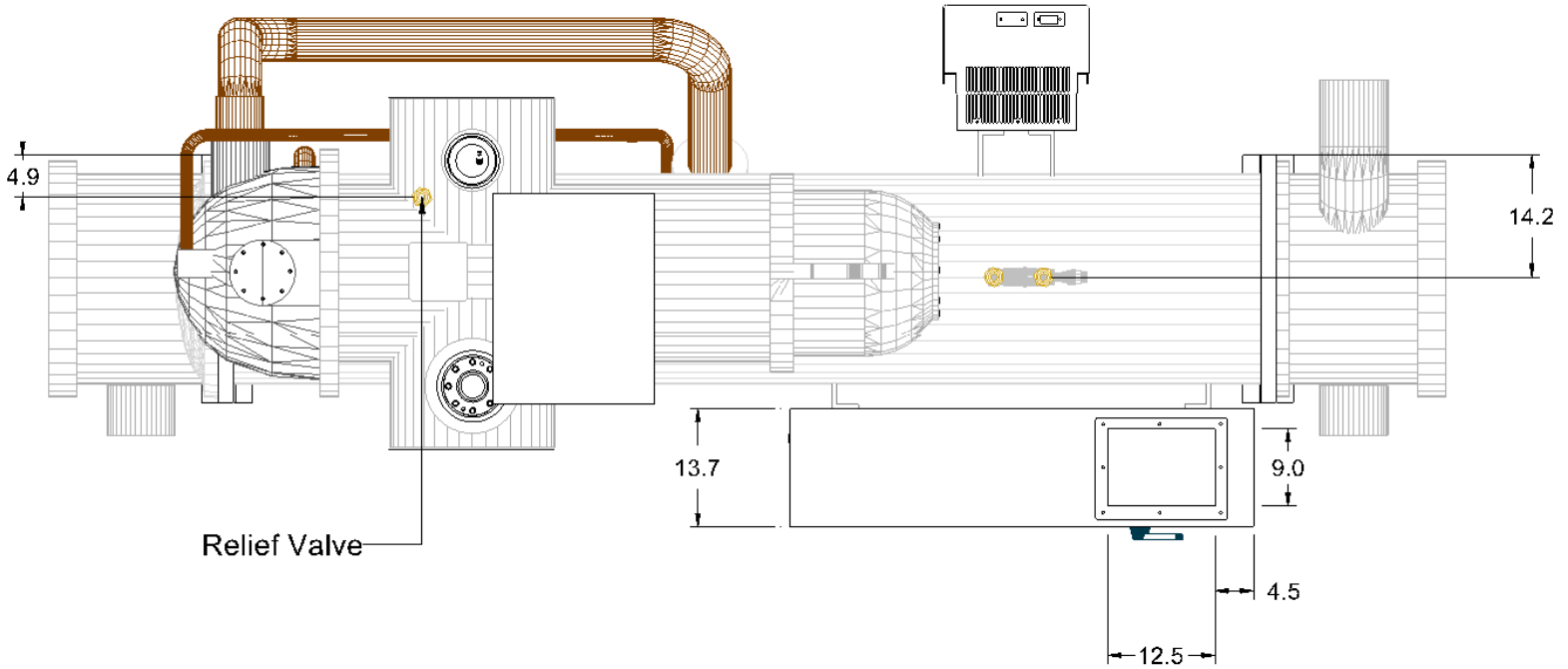
Front View	Unit Tag: CHIL-3	Sales Office: ElitAire, Inc.			 13600 Industrial Park Blvd. Minneapolis, MN 55441 www.DaikinApplied.com Software Version: 17.60	
Product: Navigator® Chiller	Project Name: Sharonville Convention	Sales Engineer:				
Model: WVVRRNSASND/E2410-GB2C-DZ-2/C2410-HB2C-1-U	Jan. 04, 2022	Ver/Rev:	Sheet: 1 of 1	Scale: NTS	Tolerance: +/- 1.0"	Dwg Units: In
WVVRRNSASNAC00460H6A/E2410GB2CR2VHN4A/C2410HB2CL1VFN4A/SNA03800						
No change to this drawing may be made unless approved in writing by Daikin Applied. Purchaser must determine that the equipment is fit and sufficient for the job specifications.						




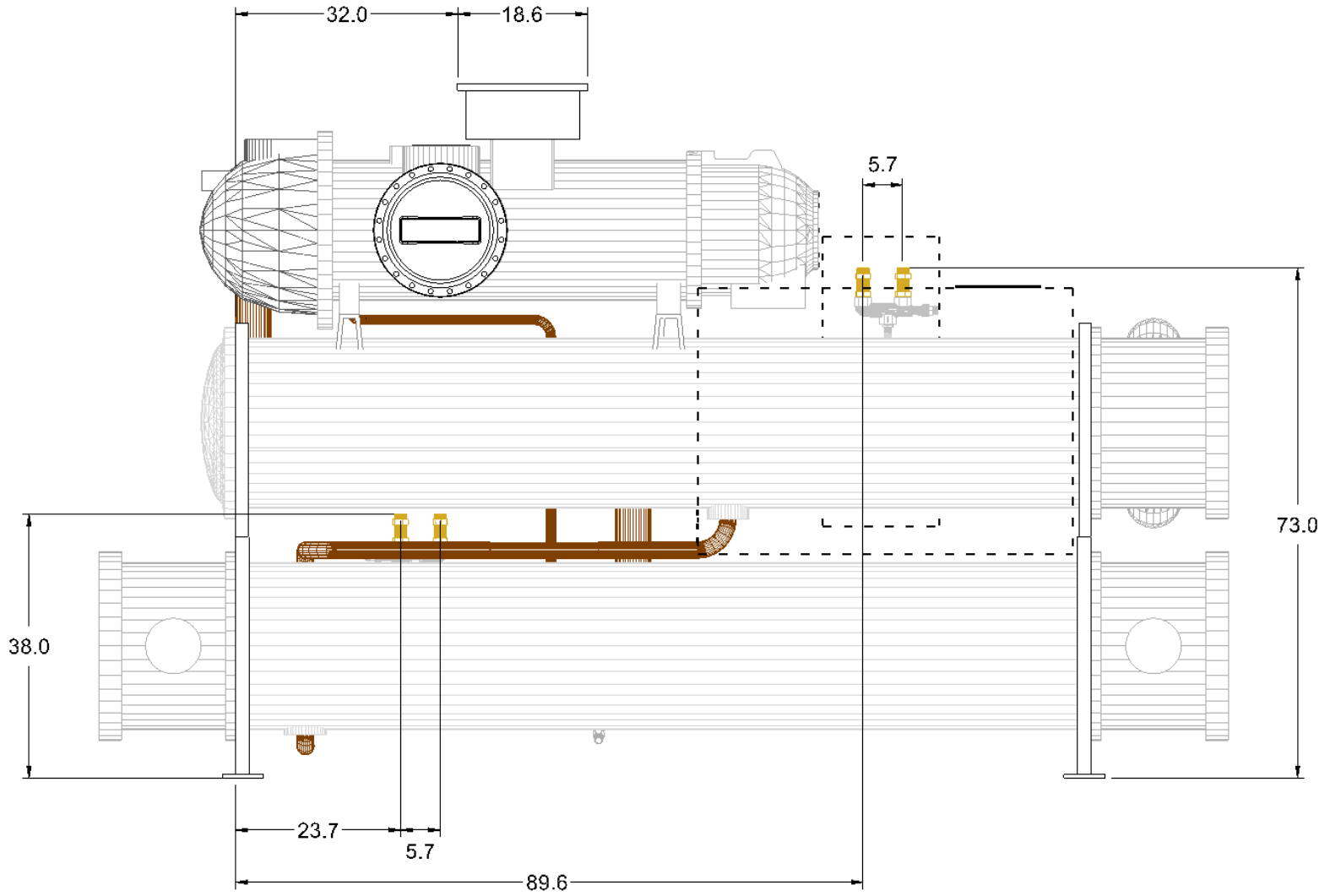
Right View	Unit Tag: CHIL-3		Sales Office: ElitAire, Inc.				 13600 Industrial Park Blvd. Minneapolis, MN 55441 www.DaikinApplied.com Software Version: 17.60
Product: Navigator® Chiller	Project Name: Sharonville Convention		Sales Engineer:				
Model: WWVRNNSASND/E2410-GB2C-DZ-2/C2410-HB2C-1-U	Jan. 04, 2022	Ver/Rev:	Sheet: 1 of 1	Scale: NTS	Tolerance: +/- 1.0"	Dwg Units: In	
WWVRNNSASNAC00460H6A/E2410GB2CR2VHN4A/C2410HB2CL1VFN4A/SNA03800							
No change to this drawing may be made unless approved in writing by Daikin Applied. Purchaser must determine that the equipment is fit and sufficient for the job specifications.							




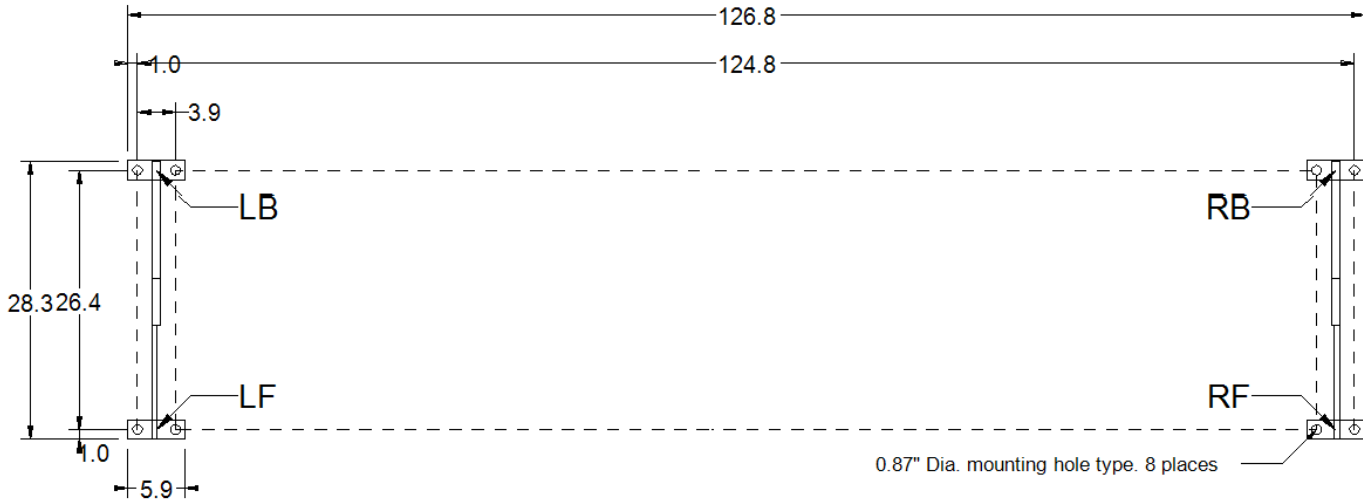
Left View	Unit Tag: CHIL-3			Sales Office: ElitAire, Inc.			 13600 Industrial Park Blvd. Minneapolis, MN 55441 www.DaikinApplied.com Software Version: 17.60
Product: Navigator® Chiller	Project Name: Sharonville Convention			Sales Engineer:			
Model: WVVRRNNSASND/E2410-GB2C-DZ-2/C2410-HB2C-1-U	Jan. 04, 2022	Ver/Rev:	Sheet: 1 of 1	Scale: NTS	Tolerance: +/- 1.0"	Dwg Units: In	
WVVRRNNSASNAC00460H6A/E2410GB2CR2VHN4A/C2410HB2CL1VFN4A/SNA03800							
No change to this drawing may be made unless approved in writing by Daikin Applied. Purchaser must determine that the equipment is fit and sufficient for the job specifications.							




Top View		Unit Tag: CHIL-3			Sales Office: ElitAire, Inc.			 13600 Industrial Park Blvd. Minneapolis, MN 55441 www.DaikinApplied.com Software Version: 17.60
Product: Navigator® Chiller		Project Name: Sharonville Convention			Sales Engineer:			
Model: WVVRRNNSASND/E2410-GB2C-DZ-2/C2410-HB2C-1-U	Jan. 04, 2022	Ver/Rev:	Sheet: 1 of 1	Scale: NTS	Tolerance: +/- 1.0"	Dwg Units: In		
WVVRRNNSASNAC00460H6A/E2410GB2CR2VHN4A/C2410HB2CL1VFN4A/SNA03800								
No change to this drawing may be made unless approved in writing by Daikin Applied. Purchaser must determine that the equipment is fit and sufficient for the job specifications.								

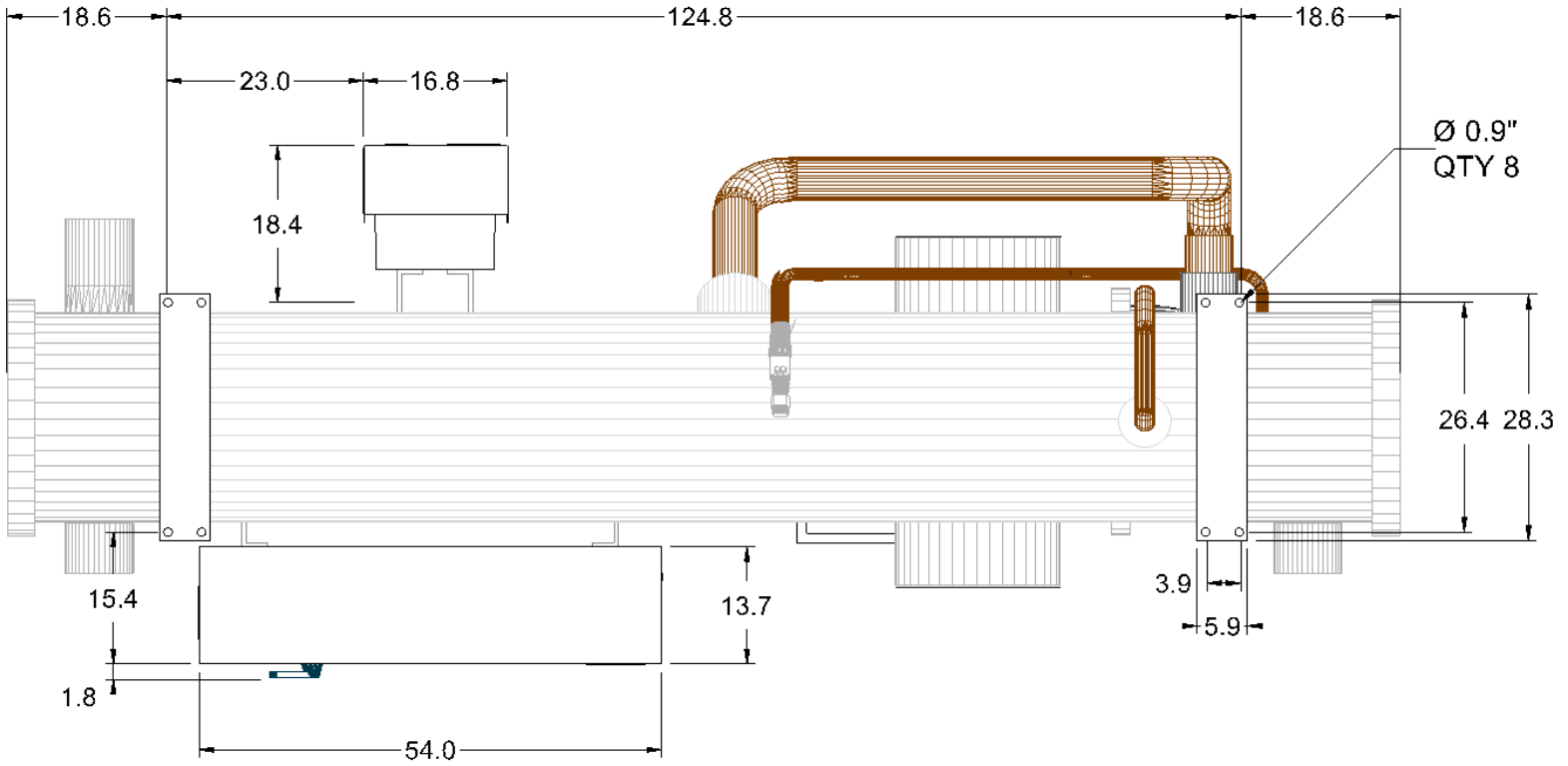



Relief Valves	Unit Tag: CHIL-3		Sales Office: ElitAire, Inc.		 13600 Industrial Park Blvd. Minneapolis, MN 55441 www.DaikinApplied.com Software Version: 17.60	
Product: Navigator® Chiller	Project Name: Sharonville Convention		Sales Engineer:			
Model: WVVRRNSASND/E2410-GB2C-DZ-2/C2410-HB2C-1-U	Jan. 04, 2022	Ver/Rev:	Sheet: 1 of 1	Scale: NTS	Tolerance: +/- 1.0"	Dwg Units: In
WVVRRNSASNAC00460H6A/E2410GB2CR2VHN4A/C2410HB2CL1VFN4A/SNA03800						
No change to this drawing may be made unless approved in writing by Daikin Applied. Purchaser must determine that the equipment is fit and sufficient for the job specifications.						

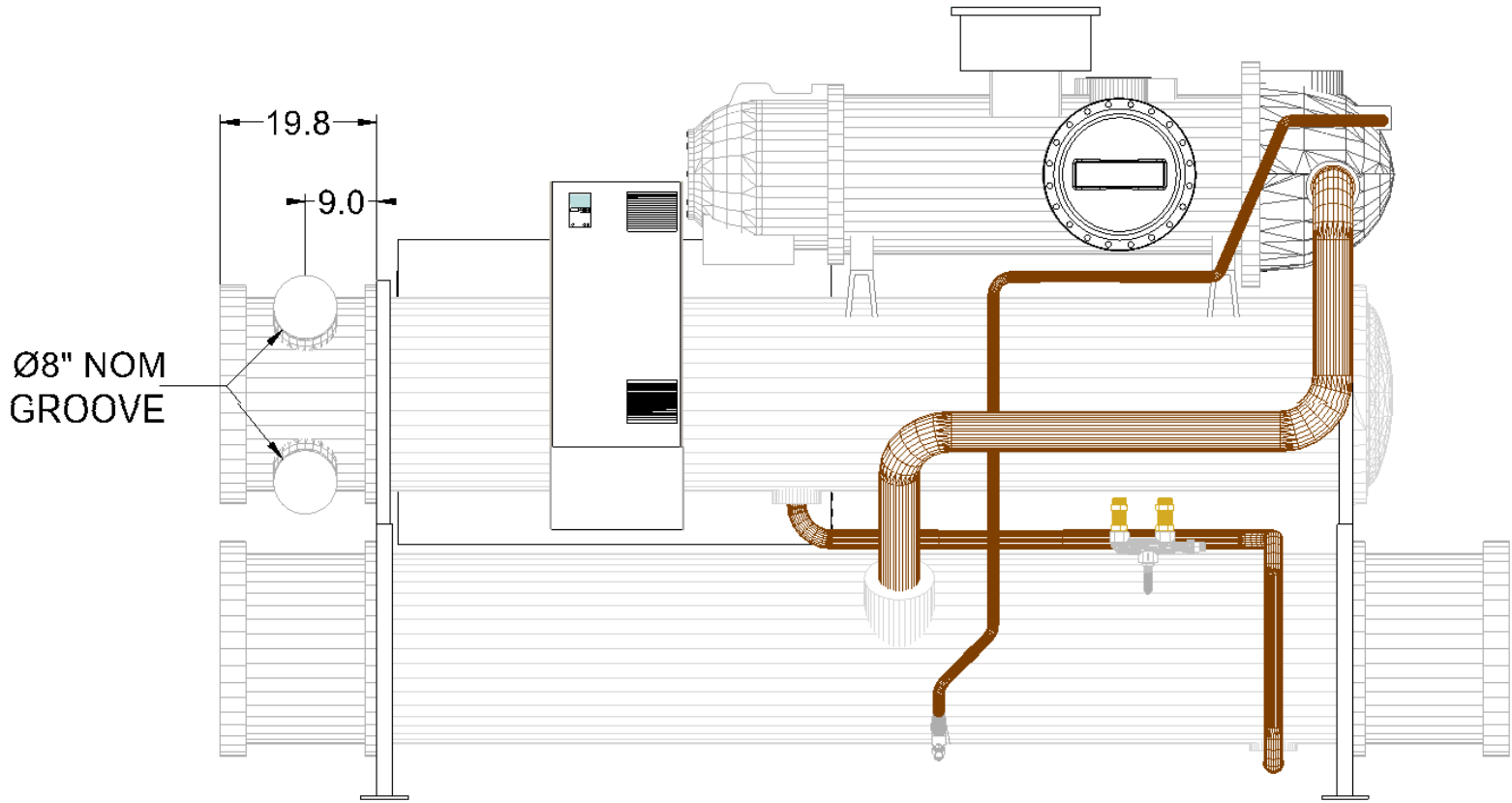



- NOTES:
 1) L = LIFTING WEIGHT
 2) M = MOUNTING LOAD
 3) UNIT SHIPPING WEIGHT = 10571lb
 4) UNIT OPERATING WEIGHT = 14696lb
 5) MOUNTING HOLE SIZE = 0.87"

Mounting View		Unit Tag: CHIL-3		Sales Office: ElitAire, Inc.			 13600 Industrial Park Blvd. Minneapolis, MN 55441 www.DaikinApplied.com Software Version: 17.60
Product: Navigator® Chiller		Project Name: Sharonville Convention		Sales Engineer:			
Model: WVVRRNNSASND/E2410-GB2C-DZ-2/C2410-HB2C-1-U	Jan. 04, 2022	Ver/Rev:	Sheet: 1 of 1	Scale: NTS	Tolerance: +/- 1.0"	Dwg Units: In	
WVVRRNNSASNAC00460H6A/E2410GB2CR2VHN4A/C2410HB2CL1VFN4A/SNA03800							
No change to this drawing may be made unless approved in writing by Daikin Applied. Purchaser must determine that the equipment is fit and sufficient for the job specifications.							



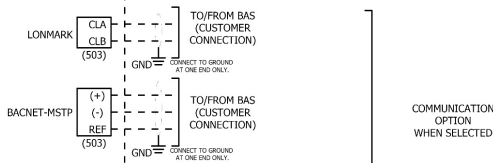
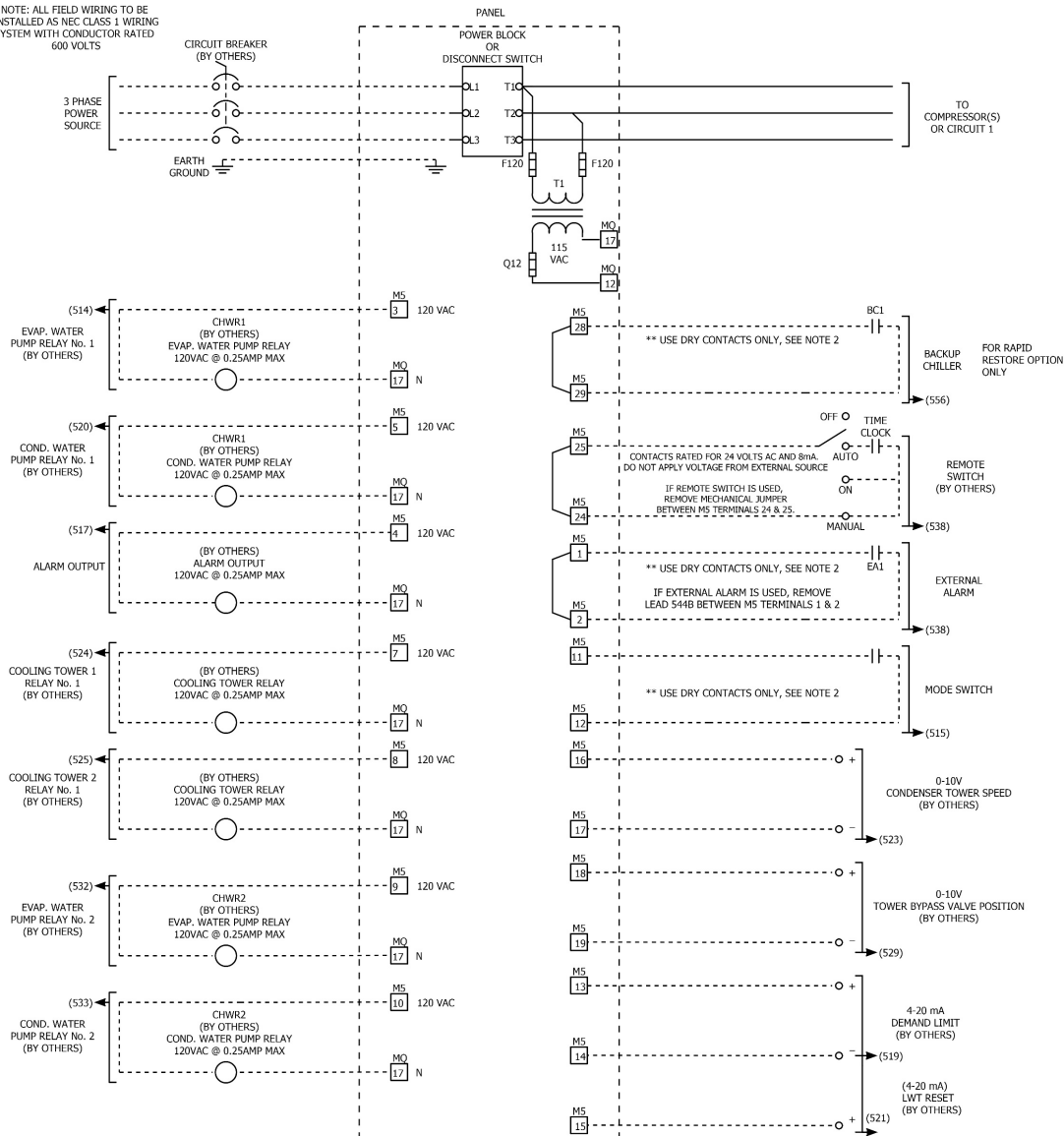
Bottom View		Unit Tag: CHIL-3		Sales Office: ElitAire, Inc.			 13600 Industrial Park Blvd. Minneapolis, MN 55441 www.DaikinApplied.com Software Version: 17.60
Product: Navigator® Chiller		Project Name: Sharonville Convention		Sales Engineer:			
Model: WVVRRNNSASND/E2410-GB2C-DZ-2/C2410-HB2C-1-U	Jan. 04, 2022	Ver/Rev:	Sheet: 1 of 1	Scale: NTS	Tolerance: +/- 1.0"	Dwg Units: In	
WVVRRNNSASNAC00460H6A/E2410GB2CR2VHN4A/C2410HB2CL1VFN4A/SNA03800							
No change to this drawing may be made unless approved in writing by Daikin Applied. Purchaser must determine that the equipment is fit and sufficient for the job specifications.							



Back View	Unit Tag: CHIL-3			Sales Office: ElitAire, Inc.			 13600 Industrial Park Blvd. Minneapolis, MN 55441 www.DaikinApplied.com Software Version: 17.60
Product: Navigator® Chiller	Project Name: Sharonville Convention			Sales Engineer:			
Model: WVVRRNSASND/E2410-GB2C-DZ-2/C2410-HB2C-1-U	Jan. 04, 2022	Ver/Rev:	Sheet: 1 of 1	Scale: NTS	Tolerance: +/- 1.0"	Dwg Units: In	
WVVRRNSASNAC00460H6A/E2410GB2CR2VHN4A/C2410HB2CL1VFN4A/SNA03800							
No change to this drawing may be made unless approved in writing by Daikin Applied. Purchaser must determine that the equipment is fit and sufficient for the job specifications.							

WWV 120-300 Single-Point Connection Field Wiring Diagram

NOTE: ALL FIELD WIRING TO BE INSTALLED AS NEC CLASS 1 WIRING SYSTEM WITH CONDUCTOR RATED 600 VOLTS



55441
on: 17.60

: N/A

fications.

COMMUNICATION
OPTION
WHEN SELECTED

Field Wiring D
Product: Water-
Model: WWV 12
Sales Engineer: C
No change to this dr:



MicroTech® III BACnet® MS-TP Communication Module

Part Number: 350147414

Description

The BACnet communication module connects the MicroTech III chiller unit controller to a building automation system (BAS). This interface enables the exchange of BACnet objects between the unit controller and the network. The BACnet communication module, together with the unit controller, support the BACnet MS/TP (EIA 485) data link layer (physical layer.)

Features

- Integration into a building automation and control system via BACnet MS/TP (B-AAC profile)
- Simple attachment to a MicroTech III chiller unit controller
- LEDs indicate communication status and network activity
- Network parameters configurable via the unit controller, BAS, or remote HMI
- BACnet application comes pre-installed and ready for custom configuration
- Circuit board components enclosed in protective housing
- Board-to-board connector: 10-pin plug between communication module and unit controller



Specifications

General	
Dimensions	W × H × D: 1.77 × 4.33 × 2.95 in (45 × 110 × 75 mm)
Weight	3.5 oz (98 g)
Operating	
Temperature	-40 – 158°F (-40 – 70°C)
Humidity	<90% RH
Atmospheric pressure	Min. 10 psi (70kPa), corresponding to max. 9,842 ft (3,000 m) above sea level
Storage and Transportation	
Temperature	-40 – 158°F (-40 – 70°C)
Humidity	<95% RH
Atmospheric pressure	Min. 3.77 psi (26kPa), corresponding to max. 32,808 ft (10,000 m) above sea level
Electrical	
Power	DC 5 V (+5% / -5%) bus connector, max. 270 mA
Network cable	RS-485 (EIA-485) 3-wire twisted pair, shielded
Bus connection/ Transceiver	Galvanically isolated; A+, B-, REF (3 wires) Isolated transceiver with fail-safe circuitry; 1/8 Unit load
Bus termination	680 Ω / 120 Ω +1 nF / 680 Ω (switch by software)
Agency Listings	
US	UL916, UL873
Canada	CSA C22.2M205
Europe	
EMC directive	2004/108/EC
Low-voltage directive	2006/95/EC Listings
RoHS directive	2002/95/EC

Daikin Applied reserves the right to alter, amend, modify, or change any product manufacture including, but not limited to, its designs, images or specifications at any time without notice, recourse, or remedy from the Owner, Contractor, or Buyer.

CSD-02007-00 (Mar-18)

©2019 Daikin Applied | (800) 432-1342 | www.DaikinApplied.com

1 of 1

CHIL-3, CHIL-3 SD BUDGET

Document Summary Page