Manhattan
Building excellence.

First Baptist Dallas Renovation Work - Criswell Basement

SUBMITTAL NO: **238413-2**

DATE: **12/1/2025**

DESCRIPTION: **FCU & Hot Water Coil - PD**

CONTRACTOR: **SCG Mechanical, LP dba Way Mechanical**

MANHATTAN CONSTRUCTION COMPANY

MANHATTAN CONSTRUCTION COMPANY

This submittal has been reviewed for general compliance with the plans and specifications. This review and the response indicated below does not relieve the subcontractor/supplier of any contractual responsibilities including the furnishing of all items required by the documents and the confirmation of all quantities and dimensions.

DATE: **12/1/2025** BY: **Maxwell Lewis**

RETURN SUBMITTAL BY:

X NO EXCEPTIONS **12/15/2025**

___ EXCEPTIONS NOTED DELIVERY REQUIRED FOR THESE

___ REVISE AND RESUBMIT MATERIALS ___

SUBMITTAL NO. **238413-2**

SHOP DRAWING REVIEW

ENGINEER'S REVIEW	CONTRACTOR RESPONSE
☒ Approved as Submitted	☐ Revise and Resubmit
☐ Approved as Noted	☐ Confirm Items Noted
☐ Rejected	☐ Resubmit Specific Items Noted
☐ Reviewed	☐ See Comments

This review was performed only for general conformance with the design concept of the project and general compliance with the information given in the Contract Documents. Modifications or comments made on the shop drawings during this review do not relieve contractor from compliance with the requirements of the plans and specifications. Approval of a specific item does not include approval of the assembly of which the item is a component. Contractor is responsible for dimensions to be confirmed and correlated at the jobsite, confirming quantities, required information that pertains solely to the fabrication processes or to the means, methods, techniques, sequences, and procedures of construction; coordination of the work of all trades and for performing all work in a safe and satisfactory manner.

BAIRD, HAMPTON & BROWN, INC.

By ***Eric Sweeney*** Date *12/02/2025*

BECK ARCHITECTURE, LLC
SUBMITTAL REVIEW

REVIEWED AS TO GENERAL COMPLIANCE WITH THE CONTRACT DOCUMENTS. SUBMITTER TO VERIFY DIMENSIONS, QUANTITIES, AND FIELD CONDITIONS FOR PROPER AND COMPLETE PERFORMANCE OF THE SUBMITTED ITEMS. REVIEW DOES NOT RELIEVE SUBMITTER FROM RESPONSIBILITY FOR ERRORS OR DEVIATIONS FROM CONTRACT DOCUMENTS. REVIEW DOES NOT CONSTITUTE APPROVAL OF SAFETY PRECAUTIONS OR OF ANY CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES OR PROCEDURES. REVIEW OF A SPECIFIC ITEM SHALL NOT INDICATE APPROVAL OF AN ASSEMBLY OF WHICH THE ITEM IS A COMPONENT.

- ☐ NOT REVIEWED
- ☑ NO EXCEPTIONS TAKEN
- ☐ EXCEPTIONS NOTED
- ☐ REVISE AND RESUBMIT
- ☐ SEE CONSULTANT COMMENTS
- ☐ REJECTED
- ☐ CONFIRM NOTED ITEMS
- ☐ SUBMIT ADDITIONAL INFORMATION

REVIEWED BY: Marlon Perkins Jr DATE: 12/3/2025

WAY MECHANICAL

WAY MECH PROJECT NAME: First Baptist Dallas

WAY MECH SUBMITTAL NO. 124

SUBMITTAL DATA

ARCHITECT: Beck

Submittal Date: 11/20/25

ENGINEER: Baird Hampton & Brown

GENERAL CONTRACTOR: Manhattan Construction

SUBCONTRACTOR: Way Mechanical

Specification Section: 238413

Description: Hydronic Terminal Units

Vendor/Supplier: Trane

Manufacturer:

Clarifications:

Deviations:

Substitutions:

Submittal Prepared By: Carson Bettison

Phone: 682-208-5162

Email: Carsonb@waymech.com

BASEMENT FCU
(Blower Coil) Submittal

Design Consultant:
Baird Hampton & Brown Inc

Mech. Contractor:
Way Mechanical

Date:
November 18, 2025

Job Name:
First Baptist Church Criswell Generator & Basement

Opportunity ID: 8242687

Trane U.S. Inc. is pleased to provide the following submittal for your review and approval.

Product Summary

Qty	Product
01	*Blower Coil - Tag(s): FCU-B-2*

Notes:

1. Hydronic specialties, disconnects, **labor warranty, startup,** extended warranties not listed within the submittal, auxiliary drain pans, **smoke detectors**, extra belts/sheaves/filters**, mixing boxes, OA/RA dampers and/or actuators,** equipment wiring, installation, equipment supports and/or isolators are excluded.
2. **Please verify "handedness" of equipment prior to release into production. Trane designates left/right hand connections by looking into the leaving air side of the unit w/ the air hitting you in the face.**
3. Piping packages (ball valves, strainers, unions, etc.) are specifically excluded and not provided by Trane.
4. **Unit includes factory mounted, wired, and engineered Tracer Symbio BACnet controls to connect to current Trane Tracer BAS system.**

Spencer Rothery, Systems Account Manager
Trane U.S. Inc.
4200 N. Sylvania Avenue
Fort Worth, TX 76137
E-mail: spencer.rothery@trane.com
Office Phone: (817) 838-1300
Cell: (512) 903-0738

The attached information describes the equipment we propose to furnish for this project and is submitted for your approval.

Submittal acceptance and return is a critical step, so please ensure submittals are returned with approval to release to production within 14 days of submittal date.

Product performance and submittal data is valid for a period of 6 months from the date of submittal generation. If six months or more has elapsed between submittal generation and equipment release, the product performance and submittal data will need to be verified. It is the customer's responsibility to obtain such verification.

Table of Contents

Tag Data - Blower coil (Qty: 1)

Item	Tag(s)	Qty	Description	Model Number
A1	FCU-B-2	1	BCXE Blower Coil (BCXE)	BCHE054GAB0A1AC4A000000B0EJ00J0000BC

Product Data - Blower coil
Item: A1 Qty: 1 Tag(s): FCU-B-2

Horizontal Blower Coil Unit
Unit Size 54
460/60/3
Matte face insulation 1"
Back return
PVC Drain pan - **RIGHT HAND COIL/CONTROL CONNECTIONS**
1 Row Heating Hydronic Coil
6 Row Hydronic Coil
1 Horsepower
2" Pleated MERV 8 - (1) SET
Symbio 400-B BACnet
Field Supplied, Modulating (Wire Harness)
Field Supplied, Modulating (Wire Harness)
Condensate Overflow & Low Limit
Outside Air & Discharge Air Sensor (Field Installed)
Hydronic Preheat
Without Factory Addressing
1st year total unit parts warranty (Trane 12/18)

Product Report - Blower coil
Item: A1 Qty: 1 Tag(s): FCU-B-2

Unit Overview

Model Number	Design Airflow	Elevation	External Dimensions			Weight	
			Length	Width	Height	Shipping	Operating
BCHE054	880 cfm	0.00 ft	35.800 in	46.000 in	18.000 in	205.3 lb	221.9 lb

Unit Features

Insulation type	1 in. Matte Face Insulation
Filter type	2" Pleated MERV 8
Mounting Accessories	Lifting Lugs

Motor/Electrical Information

Unit voltage	460/60/3
Motor full load amps	2.50 A
Fan electrical power	306.0 W
Min circuit ampacity	3.13 A
Maximum overcurrent protection	15.00 A
Brake horsepower	0.291 hp
ECM horsepower	1.000 hp
ESP	0.750 in H2O
TSP	1.057 in H2O
Design fan speed	1256 rpm
Medium fan speed	1067 rpm
Low fan speed	828 rpm
Certification	Certified in accordance with AHRI 430-2020

Coil Information

Coil #1	1R Hydronic Htg.	Cooling face velocity	238 ft/min
Coil #2	6R Hydronic	Preheat face velocity	238 ft/min
		Cooling fluid type	Water
		Preheat fluid type	Water

Coil Performance - Cooling			
Total cooling capacity	44.89 MBh	Cooling ent fluid temp	44.00 F
Sensible capacity	38.17 MBh	Cooling leaving fluid temp	60.00 F
Cooling EDB	94.20 F	Cooling delta T	16.00 F
Cooling EWB	70.60 F	Cooling flow rate	5.59 gpm
Cooling LDB	54.83 F	Cooling fluid PD	0.97 ft H2O
Cooling LWB	54.71 F	Fluid velocity	1.20 ft/s
		APD	0.213 in H2O

Coil Performance - Preheat			
Total capacity	64.78 MBh	Delta T	30.00 F
EAT	26.30 F	Fluid PD	0.82 ft H2O
LAT	94.18 F	Valve Kit PD	0.00 ft H2O
Ent fluid temp	180.00 F	APD	0.033 in H2O
Lvg fluid temp	150.00 F	Fluid freeze pt	32.00 F
Flow rate	4.32 gpm	Fluid velocity	1.85 ft/s

Controls, Sensors and Valves

Control type	Symbio 400-B	Coil end devices	Condensate Overflow & Low Limit
Supply Fan Configuration	Fan cycling operation	Temperature sensors	Outside Air & Discharge Air Sensor
Factory Mounted End Devices Options	Condensate Overflow & Low Limit	Unit Coil #2 control valve type	Field Supplied, Modulating
Unit Coil #1 control valve type	Field Supplied, Modulating		

Product Report - Blower coil
Item: A1 Qty: 1 Tag(s): FCU-B-2

Trane Select Assist Version Number:	301
Data Generation Date:	11/18/2025

Mechanical Specifications - Blower coil
Item: A1 Qty: 1 Tag(s): FCU-B-2

BCHE General
The product line consists of a horizontal air handling unit and optional accessories. Air-handling airflow data is certified in accordance with AHRI standard 430. The unit is UL listed to U. S. and Canadian safety standards and complies with NFPA 90A. Air handlers consist of a hydronic and/or DX coil, drain pan, and centrifugal fan with motor in a common cabinet. Air handlers are provided with mounting brackets on the top and bottom in all four corners for installing the unit suspended from the ceiling with threaded rods. Unit and accessories are insulated with 1" 1.0 lb/cu. ft density fiberglass insulation. Double wall is also available. Large motor access panels are provided on one side of the unit.

Casing
Casings are constructed of galvanized steel, insulated with 1" 1.0 lb/cu. ft density fiberglass fire resistant and odorless glass fiber material to provide thermal and acoustical insulation. Fan housing sides are directly attached to the air handler top and bottom panels strengthening the entire unit assembly. Coil access panels are located on one side of the air handler Main access panels provide generous access to the fan and motor from one side of the air handler.

Matte Faced Insulation
The interior surface of the unit casing is acoustically and thermally lined with 1" glass fiber insulation. The insulation has a density of 1.0 lb/cu. ft and an R-Value of 4.2. The insulation is UL listed and meets NFPA-90A and UL191 standards.

Coil #1 Hydronic Heating Coils
Heating coils are one or two row hot water. All water coils are 12 fins per inch and have 3/8" tubes with 0.012" wall thickness. All water coils use highly efficient Trane Delta Flo, Type H aluminum fins, mechanically bonded to seamless copper tubes. All coils are specifically designed and circuited for water use. All coils are factory tested with 450.00 psi air under water. Maximum standard operating conditions are 300.00 psi at 200.0 F. Sweat type connections are standard. Coil performance data is in accordance with the current edition of AHRI Standard 410.

Coil #2 Hydronic Cooling Coils
Cooling coils are four, six, or eight row chilled water. All water coils are 12 fins per inch and have 3/8" tubes with 0.012" wall thickness. All water coils use highly efficient Trane Delta Flo, Type H aluminum fins, mechanically bonded to seamless copper tubes. All coils are specifically designed and circuited for water use. All coils are factory tested with 450.00 psi air under water. Maximum standard operating conditions are 300.00 psi at 200.0 F. Sweat type connections are standard. Coil performance data is in accordance with the current edition of AHRI Standard 410.

Unit Fan
The fans are DWDI (double width double inlet) forward curved centrifugal blower type. The fans are direct drive mounted directly to the motor shaft. All fans are dynamically balanced. All air handlers have a single fan.

Electronically Commutated Motors (ECM) - Three Phase
All motors are brushless DC (BLDC) electronically commutated motors (ECM) factory programmed and run tested in assembled units. The motor controller is mounted in a control box with a built in integrated user interface and LED tachometer. If adjustments are needed, motor parameters can be adjusted through momentary contact switches accessible without factory service personnel on the motor control board. Motors will soft ramp between speeds to lessen the acoustics due to sudden speed changes. Motors can be operated at three speeds or at variable speed with factory supplied or field supplied controllers. The motor will choose the highest speed if there are simultaneous or conflicting speed requests. All motors have integral overload protection with a maximum ambient operating temperature of 130.0 F and use permanently sealed ball bearings. Motors can operate at plus or minus 10 percent of rated voltage on all speed settings.

2" Pleated Throw-Away Merv 8 Filter
2-inch pleated media filters made with 100% synthetic fibers that are continuously laminated to a supported steel-wire grid with water repellent adhesive shall be provided. Filters shall be capable of operating up to 625 fpm face velocity without loss of filter efficiency and holding capacity. The filters shall have a MERV 8 rating when tested in accordance with the ANSI/ASHRAE Standard 52.2.

Non Corrosive Drain Pan

The drain pan is noncorrosive and double-sloped to allow condensate drainage. The drainpan construction is polymer. Coils mount above the drain pan, not in the drain pan - thus allowing the drain pan to be fully inspected and cleaned. The drain pan can also be removed for cleaning. The drain pan connections are unthreaded 3/4" schedule 40 PVC for solvent bonding. The main drain connection is at the lowest point of the drain pan. An auxiliary drain connection is provided on the same side as the main connection.

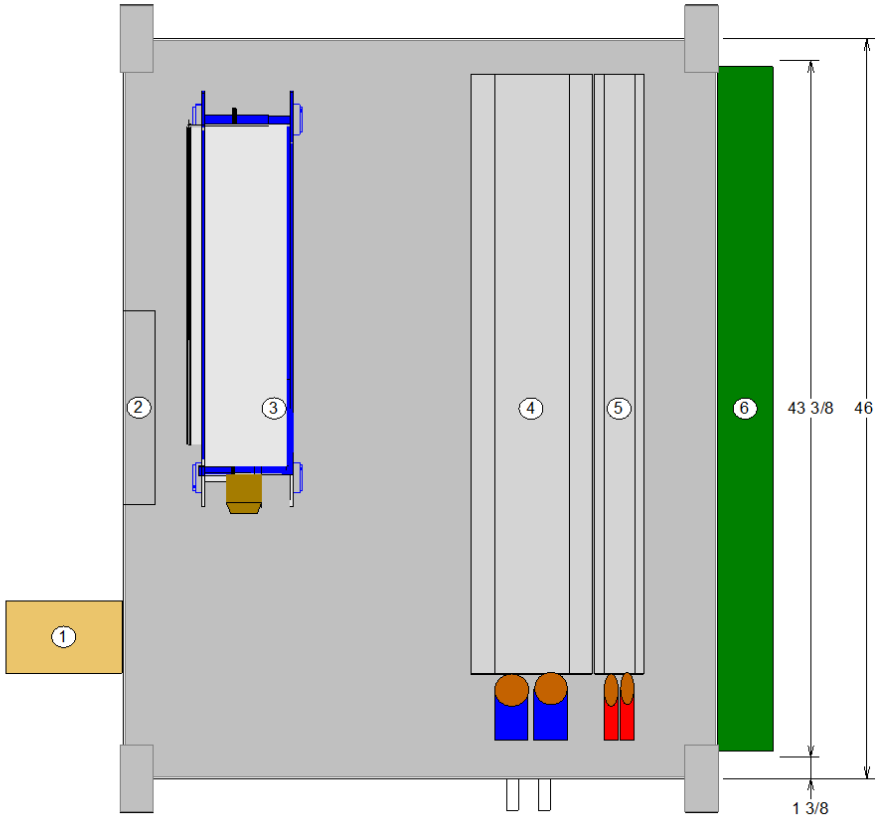
UC400-B/SYMBIO 400-B
The UC400-B/SYMBIO 400-B controller is a factory installed microprocessor based controller. The controller is located in a control box containing line voltage to a 24VAC transformer, ECM engine board, adapter board and optional disconnect switch. The wires from the transformer are terminated in the factory on the control board. All factory mounted end devices are installed and wires are terminated on the control board. All field connections other than power are made with screw-type connections on the control board with the exception of field supplied valves which are connected to a factory supplied harness. This option can be used in a stand-alone application or as part of a Trane Integrated Comfort System (ICS). The UC400-B/SYMBIO 400-B controller ships with a unit of measure over BACnet link in SI units. When a Building Automation System (BAS) is unable to convert to other desired units, a free software tool is available for changing to another unit of measure. A number of control options may be configured to meet the customer's needs at the factory, through an Integrated Comfort System (ICS) or by using Integrated Comfort System (ICS) service tool software. Refer to the current installation operation programming guide (IOM) for all available configurations and control options.

Freezestat
A freezestat is a normally closed protection device that opens the circuit when the entering air temperature to the main coil is below a specific trip temperature. This circuit will not close until the entering air temperature exceeds a specific release temperature.

Outside Air Sensor
This factory provided, field mounted outside air sensor is for use only with the Tracer control options. This is specifically intended for use in economizer applications or as a status point. If the unit is not being used in an economizer application, the outside air temperature is a status value only; it does not impact the control algorithm. If the unit is being used in an economizer application, an outside air temperature signal must be provided either by this sensor or by a Trane building automation system such as Tracer 100 or Tracer Summit systems.

Discharge Air Sensor
The factory supplied, factory mounted (field mounted with electric heat) discharge air sensor is for use with the unit controller option only. This sensor is mounted on the fan housing which is downstream of the main and auxiliary coils. When electric heat is provided, the discharge air sensor is field mounted in the ductwork downstream of the electric heater. The temperature signal provided is used as a status point or with other control algorithms.

Dimensional Drawings - Blower coil
Item: A1 Qty: 1 Tag(s): FCU-B-2



1 External control box front
2 Opening front
10 x 12.1
3 Housed fan
4 Cooling coil
5 Heating coil
6 Flat filters - Unit mounted

OPENING AND DIMENSIONS MAY VARY FROM CONTRACT DOCUMENTS / RETURN OF APPROVED DRAWINGS CONSTITUTES ACCEPTANCE OF THESE VARIANCES / NOT TO SCALE

Unit size (Nominal CFM): 54 (1800 CFM)	Job Name: First Baptist Church Criswell Generator & Basement	Unit Insulation: 1 in. Matte Face Insulation
Seismic certification:	Design airflow: 880 cfm	Proposal Number
	Sales Office	Tags: FCU-B-2
		Rigging/Installed Weight: 205.3 lb / 221.9 lb

Dimensional Drawings - Blower coil
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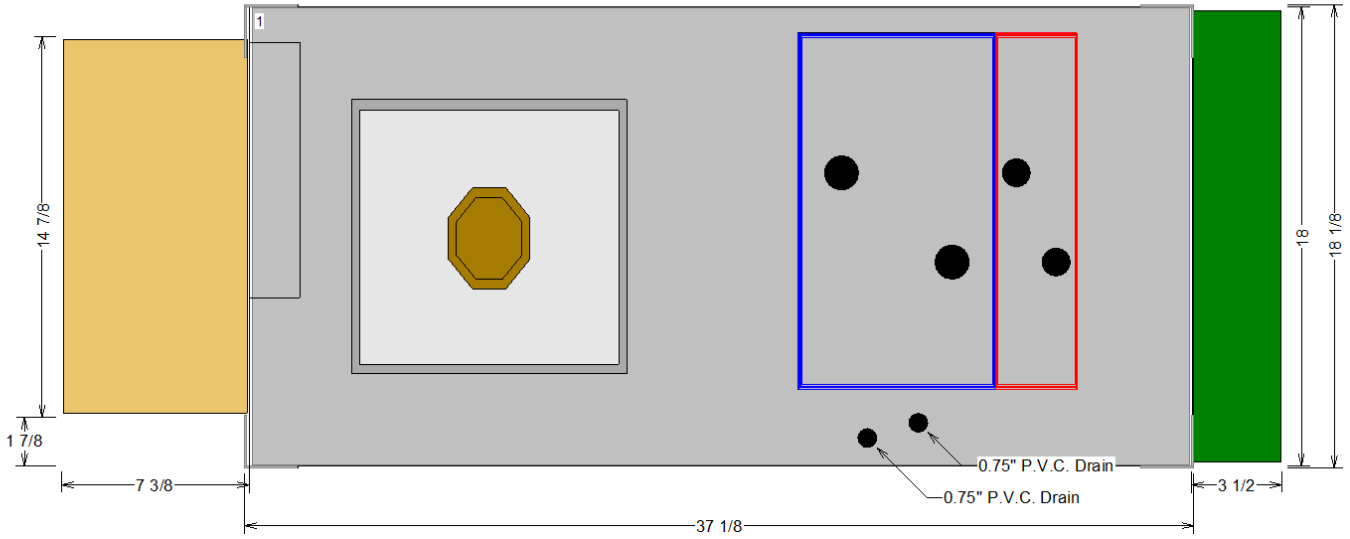

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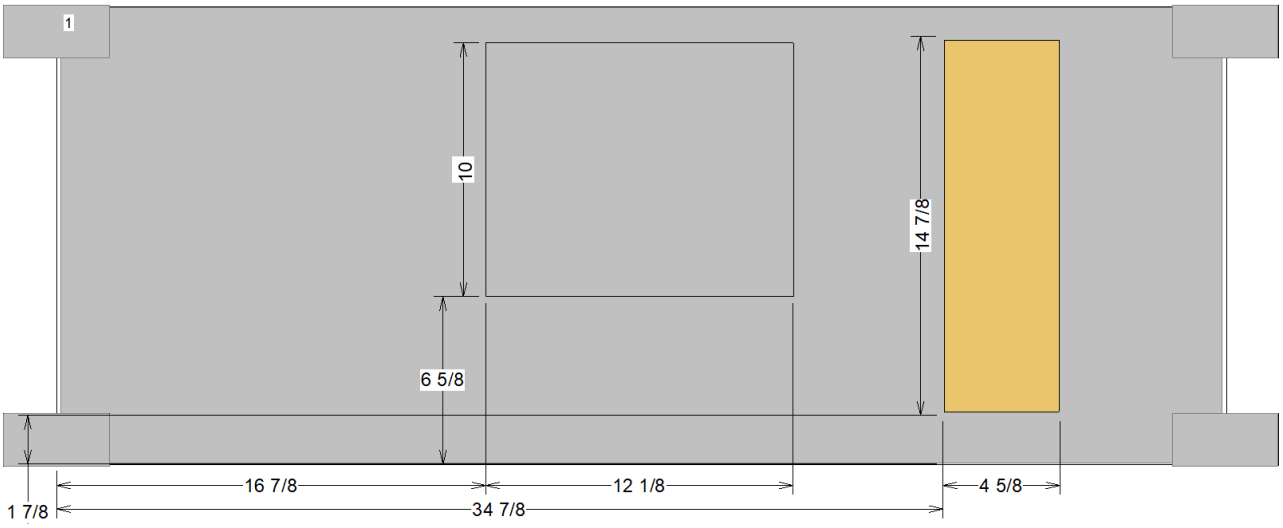
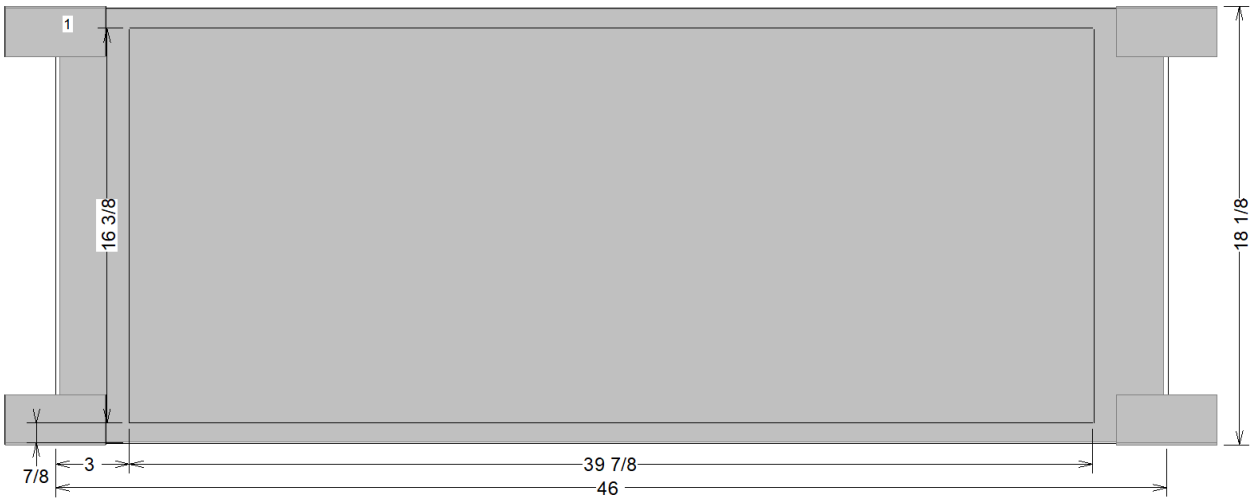


Detailed Elevation View: Front - Measurements in inches



Detailed Elevation View: Back - Measurements in inches

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Seismic certification:	Design airflow: 880 cfm	Proposal Number
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Dimensional Drawings - Blower coil
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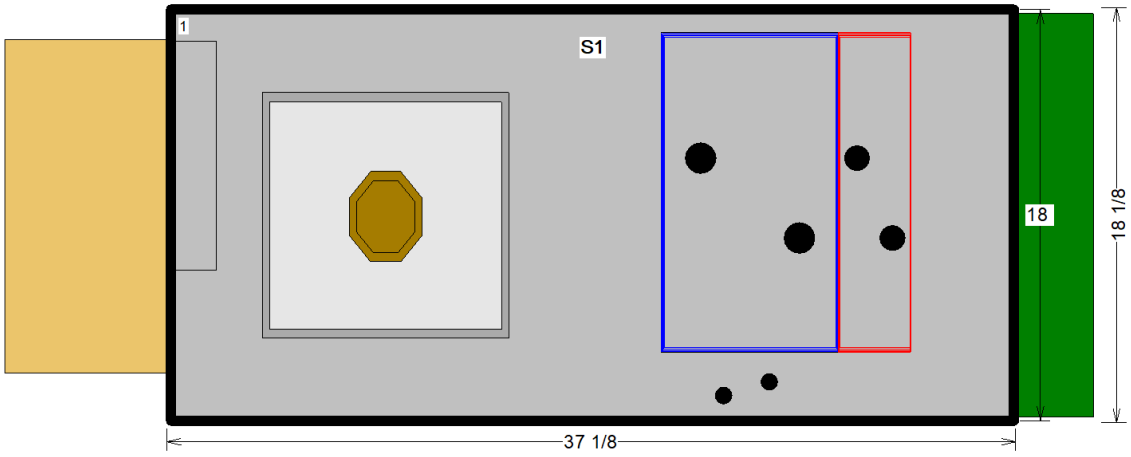
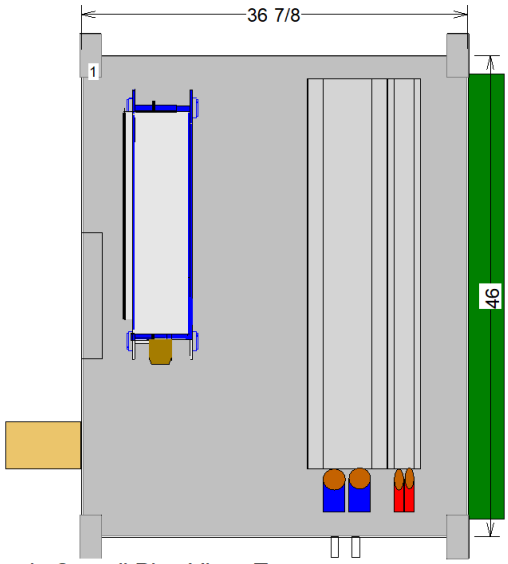


Shipping splits are indicated by thick black lines

Pos #	Module	Length	Weight
1	Fan and coil section	36 7/8	221.90
	Installed Unit Weight		221.90 lbs



Basic Overall Plan View: Top - Measurements in inches

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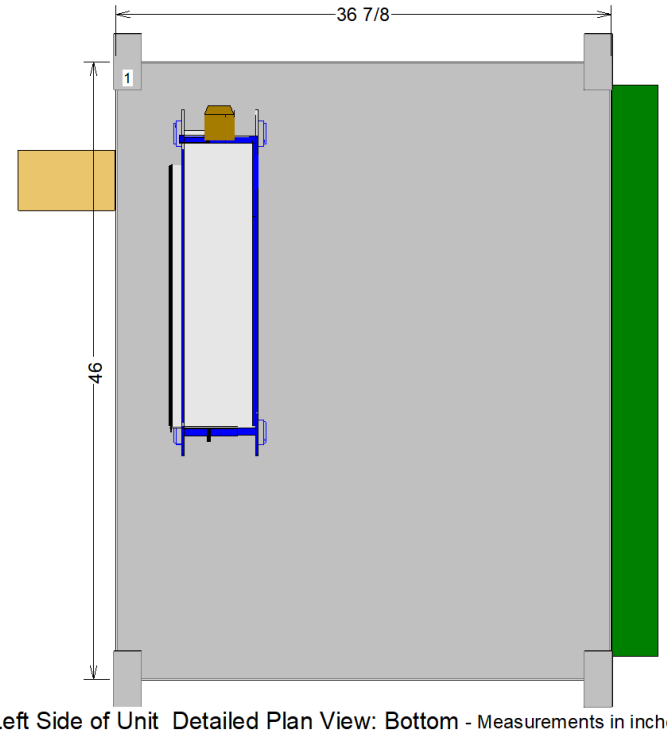
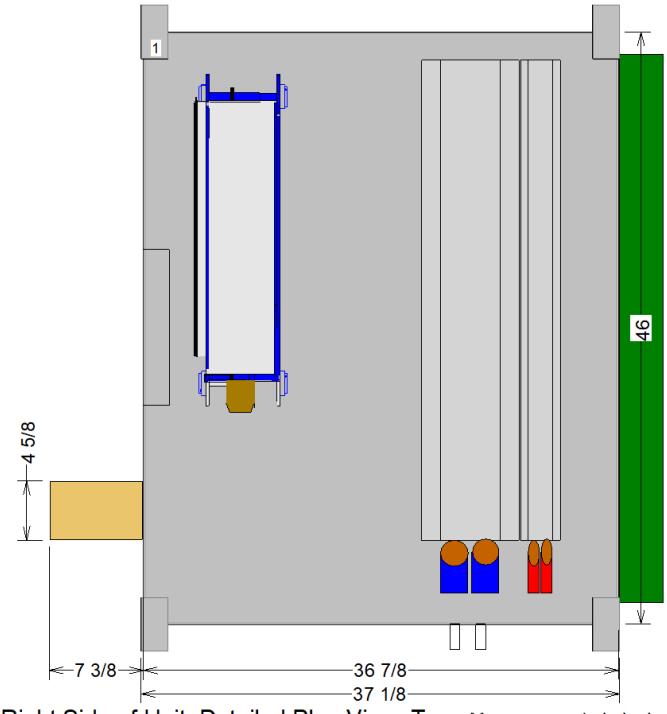
Unit size (Nominal CFM): 54 (1800 CFM)	Job Name: First Baptist Church Criswell Generator & Basement	Unit Insulation: 1 in. Matte Face Insulation
Seismic certification:	Design airflow: 880 cfm	Proposal Number
	Sales Office	Tags: FCU-B-2
		Rigging/Installed Weight: 205.3 lb / 221.9 lb

Dimensional Drawings - Blower coil
Item: A1 Qty: 1 Tag(s): FCU-B-2



Left Side of Unit Detailed Plan View: Bottom - Measurements in inches



Right Side of Unit Detailed Plan View: Top - Measurements in inches

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Seismic certification:	Design airflow: 880 cfm	Proposal Number
	Sales Office	Tags: FCU-B-2
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Dimensional Drawings - Blower coil
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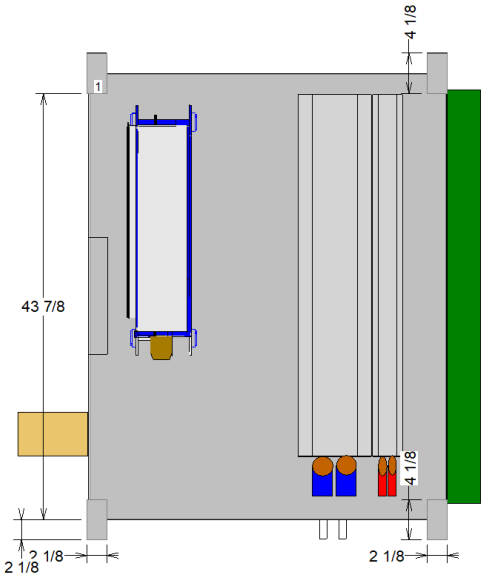
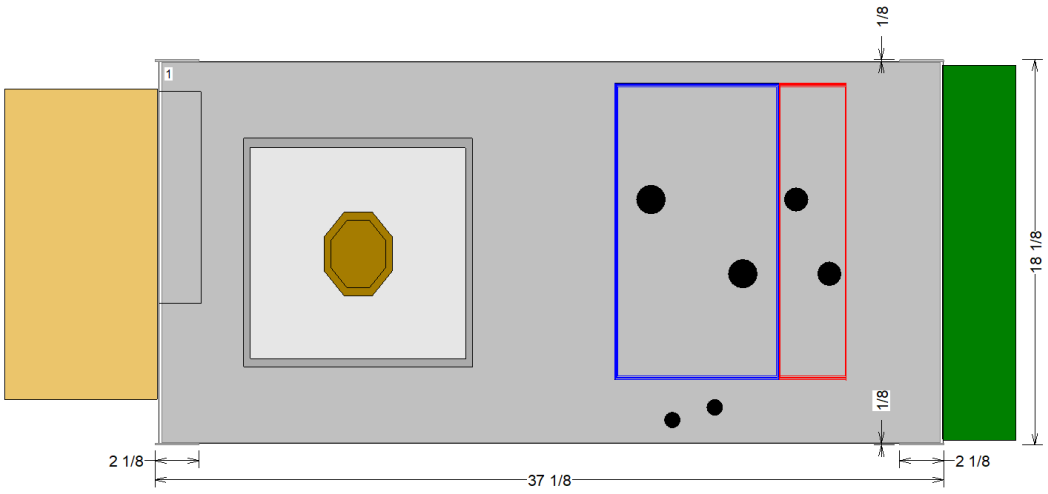


Lifting Lugs: Top - Measurements in inches



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Seismic certification:	Design airflow: 880 cfm	Proposal Number
	Sales Office	Tags: FCU-B-2
		Rigging/Installed Weight: 205.3 lb / 221.9 lb

Dimensional Drawings - Blower coil
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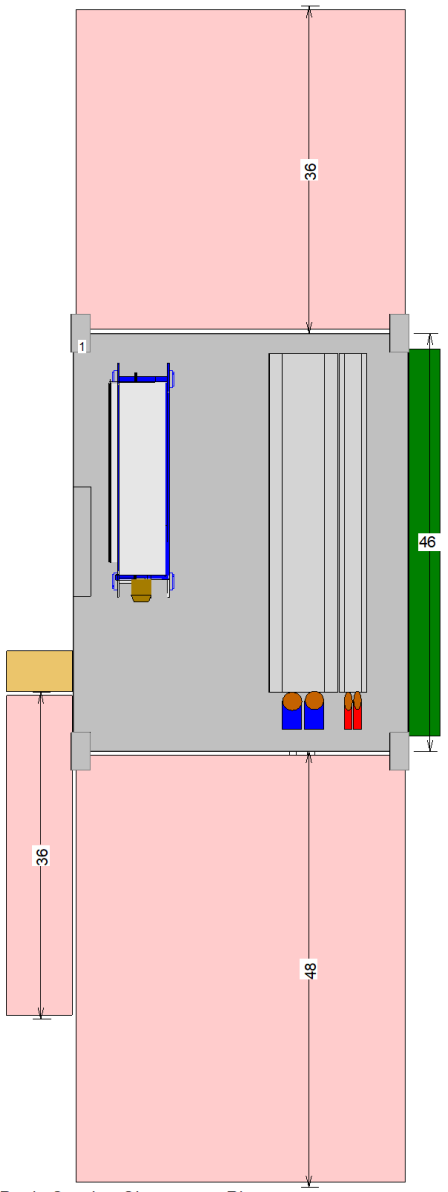


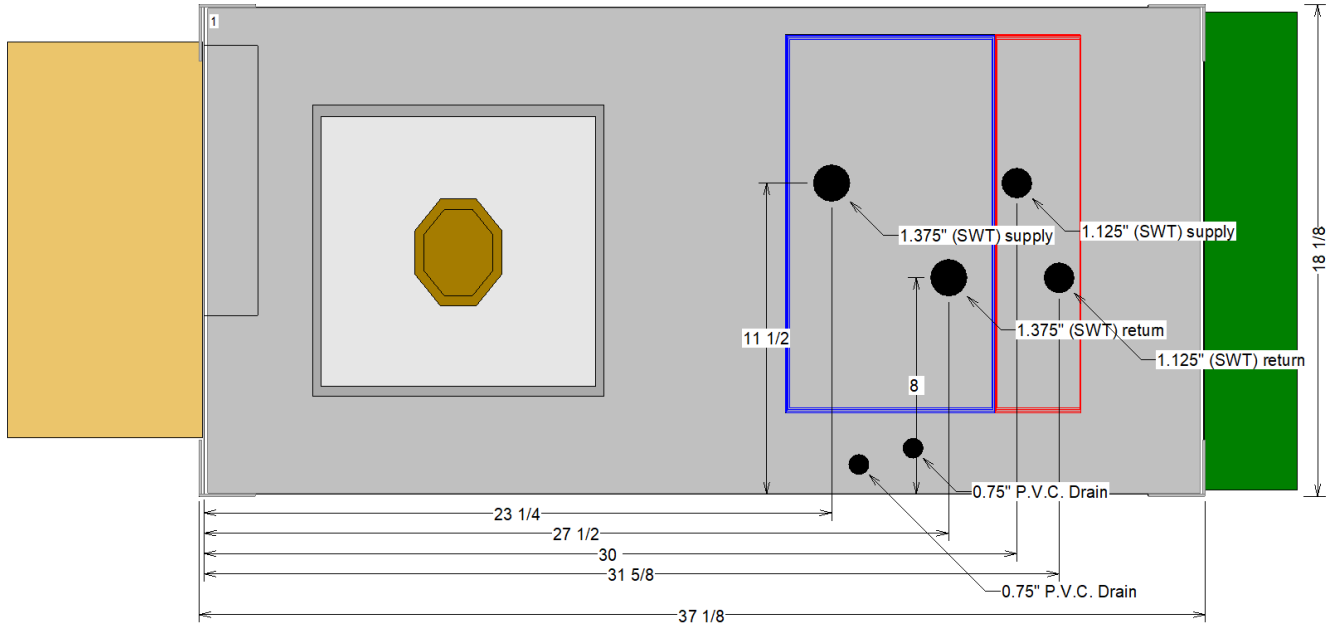
Basic Service Clearance - Plan - Measurements in inches

The coil(s) are intended to be removed from the coil connection side of the unit
In the event of a coil removal, the clearance located opposite of the coil connection side is required to remove hardware that secures the coil
****If the clearance opposite of the coil conection side of the unit is not available, the unit will need to be repositioned at the time of the coil removal****

OPENING AND DIMENSIONS MAY VARY FROM CONTRACT DOCUMENTS / RETURN OF APPROVED DRAWINGS CONSTITUTES ACCEPTANCE OF THESE VARIANCES / NOT TO SCALE

Unit size (Nominal CFM): 54 (1800 CFM)	Job Name: First Baptist Church Criswell Generator & Basement	Unit Insulation: 1 in. Matte Face Insulation	TRANE
Seismic certification:	Design airflow: 880 cfm	Proposal Number	
	Sales Office	Tags: FCU-B-2	
		Rigging/Installed Weight: 205.3 lb / 221.9 lb	

Dimensional Drawings - Blower coil
Item: A1 Qty: 1 Tag(s): FCU-B-2



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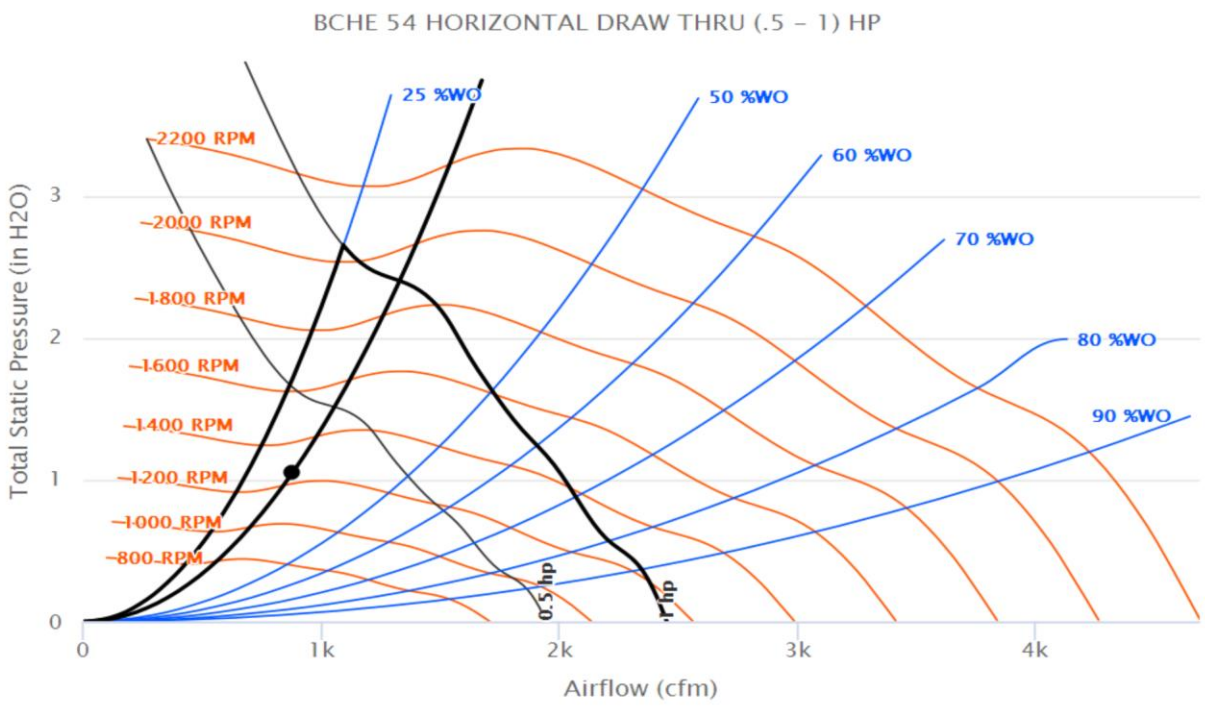
Seismic certification:	Design airflow: 880 cfm	Proposal Number
	Sales Office	Tags: FCU-B-2
		Rigging/Installed Weight: 205.3 lb / 221.9 lb

Fan Curve - Blower coil
Item: A1 Qty: 1 Tag(s): FCU-B-2

Fan Details

Unit Size	54 (1800 CFM)	**Operating Brake Power**	0.291 hp
Operating Airflow	880 cfm	**Altitude**	0.00 ft
Operating Static Pressure	1.057 in H2O	**Design Temp.**	94.20 F
Operating RPM	1,256 rpm		



Accessory - Blower coil
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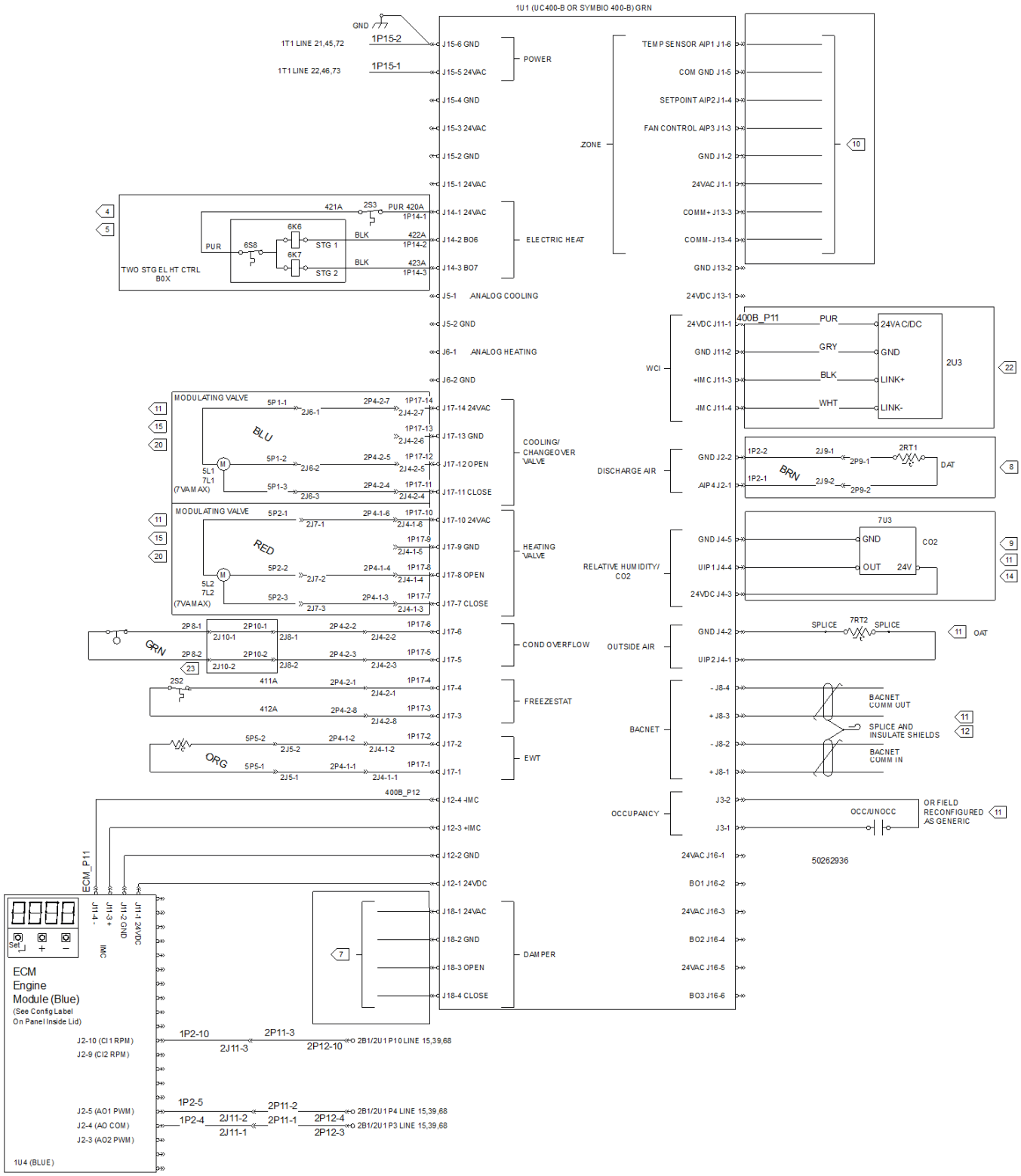

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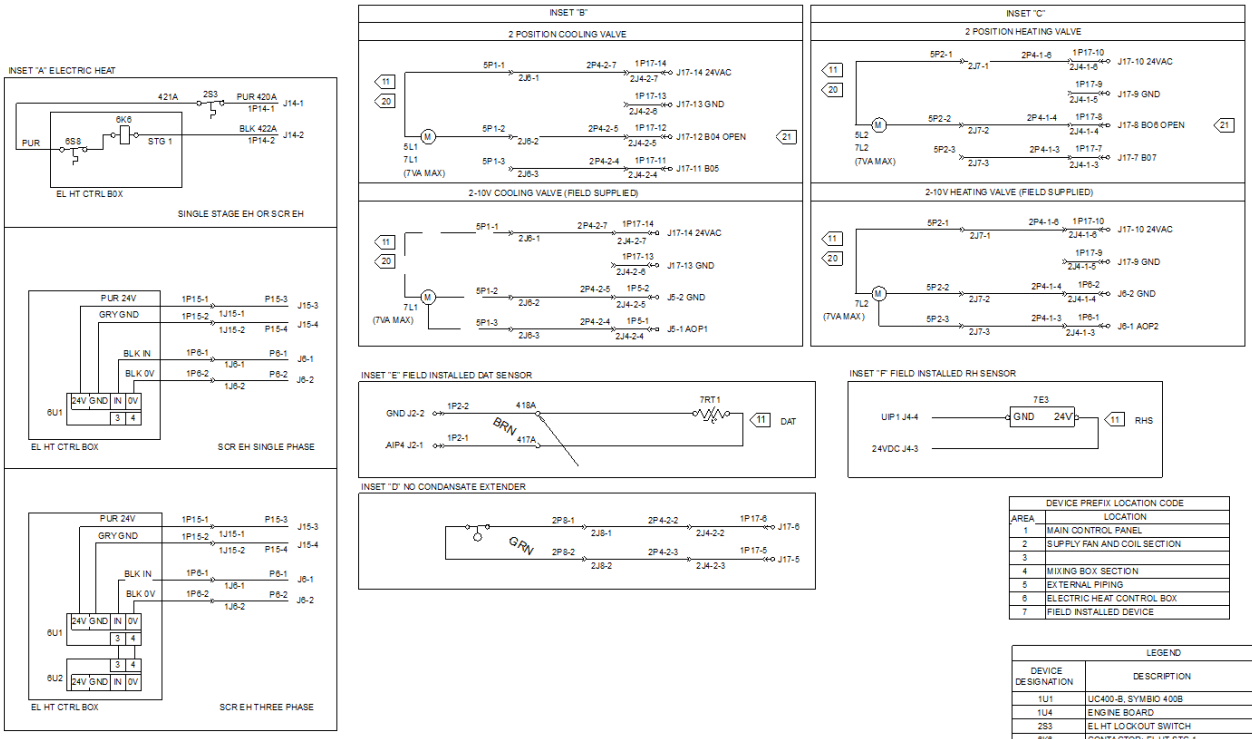


DEVICE PREFIX LOCATION CODE	
AREA	LOCATION
1	MAIN CONTROL PANEL
2	SUPPLY FAN AND COIL SECTION
3	
4	MIXING BOX SECTION
5	EXTERNAL PIPING
6	ELECTRIC HEAT CONTROL BOX
7	FIELD INSTALLED DEVICE

50262936

LEGEND		
DEVICE DESIGNATION	DESCRIPTION	LINE NUMBER
1U1	UC400-B, SYMBIO 400B	74
1U4	ENGINE BOARD	115
2S3	EL HT LOCKOUT SWITCH	81,117
6K6	CONTACTOR; EL HT STG 1	82,118
6S8	EL HT HIGH TEMP	82,118
6K7	CONTACTOR; EL HT STG 2	83
6U1	SCR CONTROLLER	126,133
6U2	SCR CONTROLLER	135
2U3	WIRELESS COM INTERFACE	86
5L1	COOLING COIL VALVE MOTOR	90,115
5L2	HEATING COIL VALVE MOTOR	94,115
7L1	COOLING COIL VALVE MOTOR	90,115,120
7L2	HEATING COIL VALVE MOTOR	94,115,120
2RT1	DISCHARGE AIR TEMP SNSR	89
7U3	CO2 SENSOR	92
2S1	CONDENSATE OVERFLOW SWTCH	96,127
7RT2	OUTSIDE AIR TEMP SENSOR	95
2S2	FREEZESTAT	98
5RT1	ENTERING WATER TEMP SENSOR	100
7RT1	FLD INSTALLED DAT SENSOR	123
7E3	FLD INSTALLED RH SENSOR	123

NOTES:

1. UNLESS OTHERWISE NOTED, ALL SWITCHES ARE SHOWN AT 25° C (77° F), AT ATMOSPHERIC PRESSURE, AT 50 % RELATIVE HUMIDITY, WITH ALL UTILITIES TURNED OFF, AND AFTER A NORMAL SHUTDOWN HAS OCCURRED.
2. DASHED LINES INDICATE RECOMMENDED FIELD WIRING BY OTHERS. DASHED LINED ENCLOSURES AND/OR DASHED DEVICE OUTLINES INDICATE COMPONENTS PROVIDED BY THE FIELD. PHANTOM LINED ENCLOSURES INDICATE ALTERNATE CIRCUITRY OR AVAILABLE SALES OPTIONS. SOLID LINES INDICATE WIRING BY TRANE.
3. ALL FIELD WIRING MUST BE IN ACCORDANCE WITH THE NATIONAL ELECTRIC CODE (NEC). STATE AND LOCAL REQUIREMENTS. ALL FIELD WIRING MUST HAVE AN INSULATION VOLTAGE RATING THAT EQUALS OR EXCEEDS UNIT RATED VOLTAGE.

4 ELECTRIC HEAT SCHEMATIC IS LOCATED IN THE ELECTRIC HEAT CONTROL BOX PANEL.

5 WIRING SHOWN IS FOR TWO STAGE ELECTRIC HEAT. FOR SINGLE STAGE EH , SCR ELECTRIC HEAT SINGLE PHASE AND SCR ELECTRIC HEAT THREE PHASE , SEE INSET "A".

7 SEE SHEET 5026-2938 FOR DAMPER CONNECTIONS.

8 WIRING SHOWN IS FOR FACTORY INSTALLED DISCHARGE AIR SENSOR. FOR FIELD INSTALLED DISCHARGE AIR SENSOR SEE INSET "E".

9 WIRING SHOWN IS FOR CO2 SENSOR. FOR FIELD INSTALLED HUMIDITY SENSOR SEE INSET "F".

10 SEE SHEET 5026-2938 FOR ZONE SENSOR CONNECTIONS.

11 USE CLASS 2 WIRING.

12 COMMUNICATION WIRE MUST BE TRANE PART NO. 400-20-28, OR WINDY CITY OR CONNECT AIR "LEVEL 4" CABLE. MAXIMUM OF 4500 FOOT AGGREGATE RUN. CAUTION DO NOT RUN POWER IN THE SAME CONDUIT OR WIRE BUNDLE WITH COMMUNICATION LINK. FOR ADDITIONAL INFORMATION REFER TO EMTX-EB-68.

14 CONFIGURE THE CO2 SENSOR FOR 4-20mA OPERATION USING THE OUT2 JUMPER SUPPLIED WITH THE SENSOR.

16 WIRING SHOWN IS FOR MODULATING VALVE SECTION. FOR COOLING 2 POSITION AND 2-10V VALVE, SEE INSET "B". FOR HEATING 2 POSITION OR 2-10V VALVE, SEE INSET "C".

20 FIELD SUPPLIED ACTUATOR WIRING UTILIZES THE SAME CONNECTION POINTS AS FACTORY ACTUATOR WIRING.

21 VALVES SHOWN IN NORMALLY CLOSED POSITION, FOR NORMALLY OPEN POSITION, THE VALVE SIGNAL BECOMES CLOSE.

22 WIRING SHONW IS FOR THE UNIT WITH UC400-B, SYMBIO 400-B W/WCI.

23 WIRING SHONW IS FOR BCHE/BCVE UNIT CONDANSATE EXTENDER. FOR BCCE UNIT SEE INSET D

Accessory - Blower coil
Item: A1 Qty: 1 Tag(s): FCU-B-2

Air Temperature Sensor

NOTE:

1. NICKEL PLATED BRASS HOUSING, EPOXY FILLED ENTIRE LENGTH. THERMISTOR BEAD TO BE PLACED WITHIN 3/8" FROM END OF HOUSING. PROBE TO BE INDIVIDUALLY IDENTIFIED WITH VENDOR PART NUMBER AND DATE CODE.

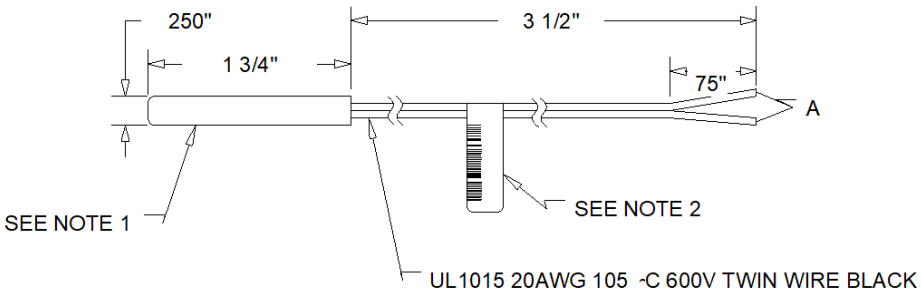
2. ID LABEL TO CONTAIN BAR CODE AND 12 DIGIT TRANE PART NUMBER (NO DASHES OR SPACES). BAR CODE TO BE PER STANDARD CODE 128. RECOMMENDED MINIMUM SIZE OF .40"X1.70". ID LABELS TO BE ATTACHED TO CABLE NEAR TERMINALS.

3. ALL PARTS UPDATES OR ADDITIONS SHOULD MEET TRANE STANDARD S65162000.

RESISTANCE TEMPERATURE CHARACTERISTICS			
TEMPERATURE	RESISTANCE		TEMP COEFF
	MIN	MAX	
-40°C	320.9K	369.0K	-6.61 % /°C
-25°C	125.6K	142.3K	-6.04 % /°C
0°C	31.17K	34.6K	-5.16 % /°C
25°C	9.56K	10.44K	-4.40 % /°C
65°C	2.012K	2.158K	-3.50 % /°C

X13790374

EXT	A	B
010	PLUG; AMP #172165-1 TERMINAL; PIN AMP #171638-1 (2 REQD)	16 ± .25

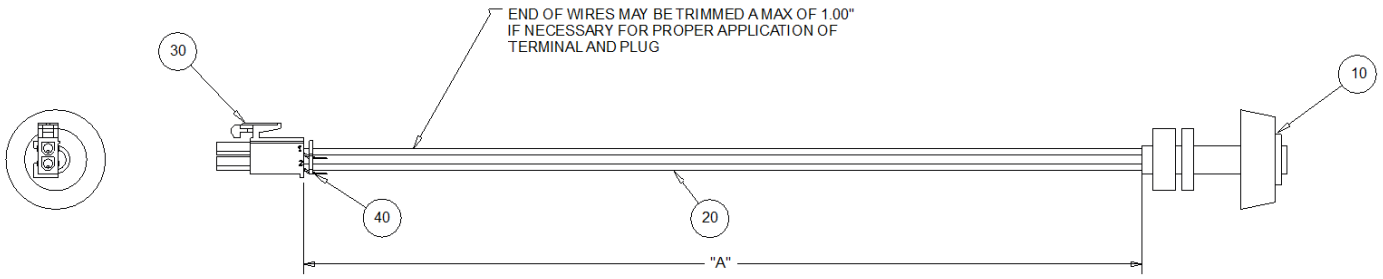


Accessory - Blower coil
Item: A1 Qty: 1 Tag(s): FCU-B-2

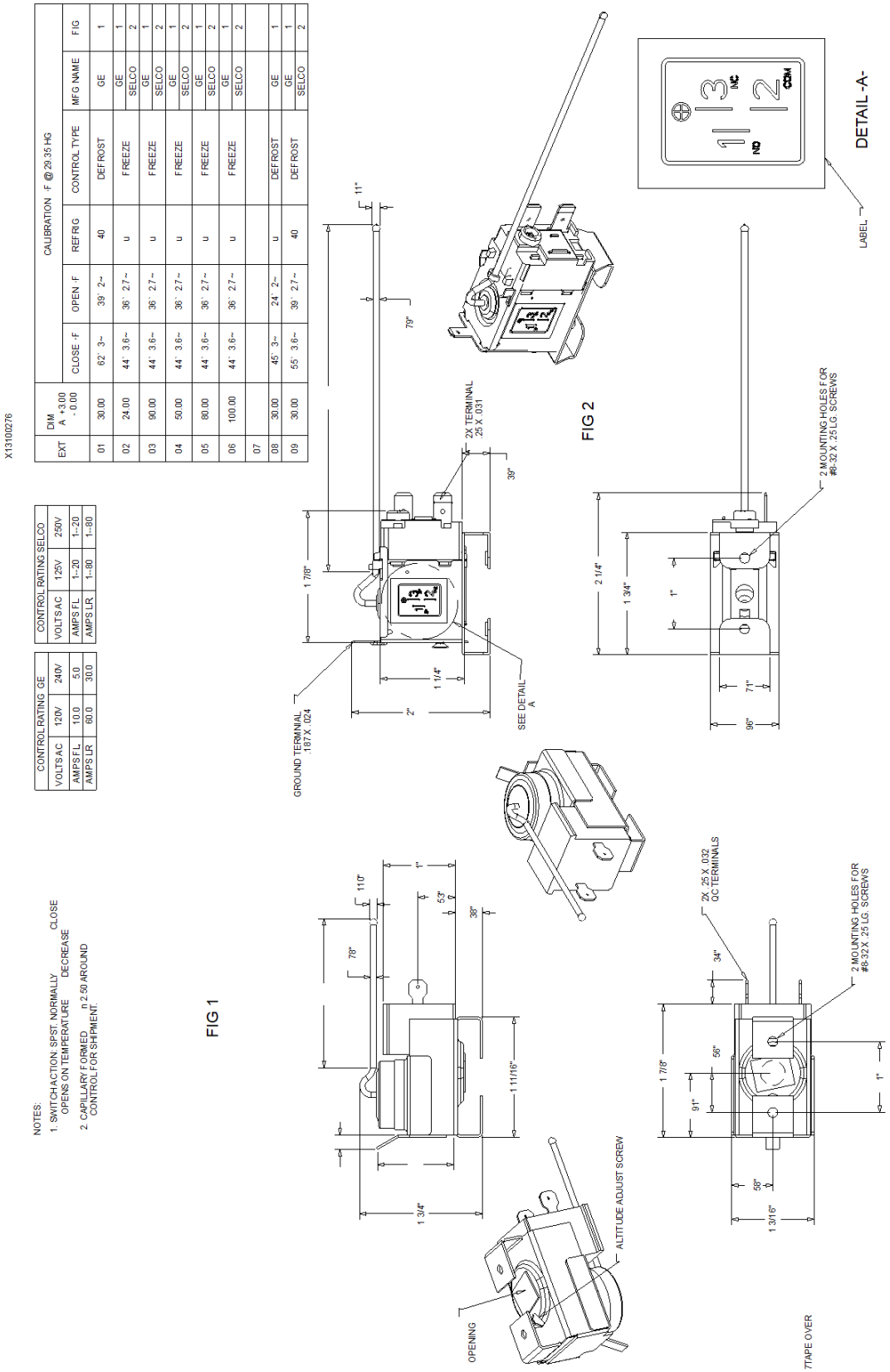
CONDENSATE OVERFLOW

EXT	A (IN)	ITEM			
		10 FLOAT SWITCH	20 WIRE	30 PLUG (GREEN)	40 TERMINAL PIN
X13470527010	9.0	X13470484010	AWM (20 AWG)	AMP #1-172165-5	AMP #171638-1
X13470527020	50.0	X13470484010	AWM (20 AWG)	AMP #1-172165-5	AMP #171638-1

X13470527



Accessory - Blower coil
Item: A1 Qty: 1 Tag(s): FCU-B-2



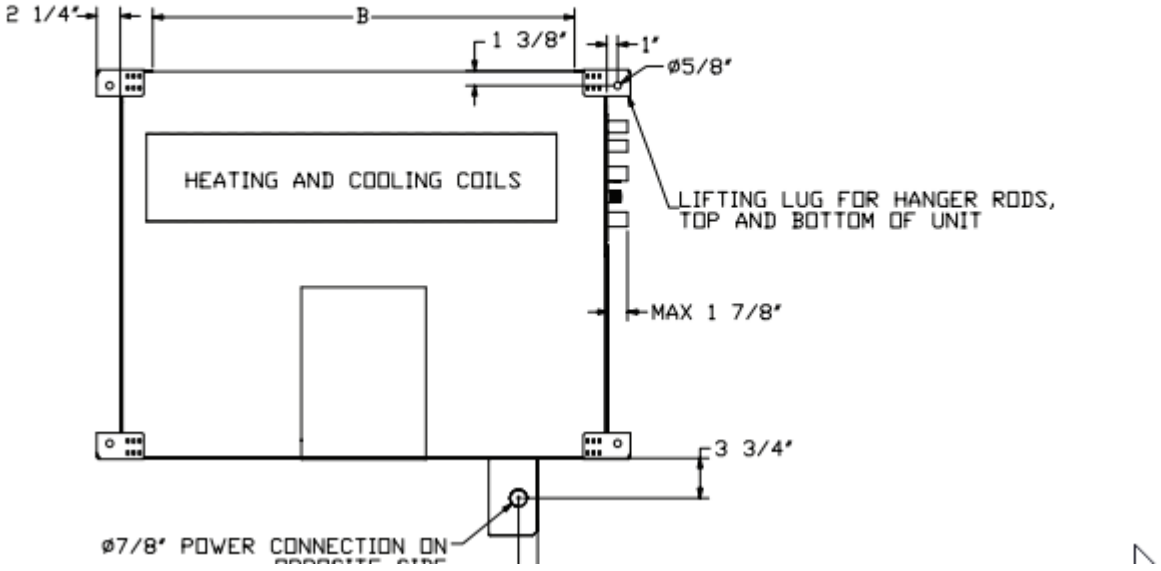
Accessory - Blower coil
Item: A1 Qty: 1 Tag(s): FCU-B-2

Hanger placement for Horizontal Blower Coil

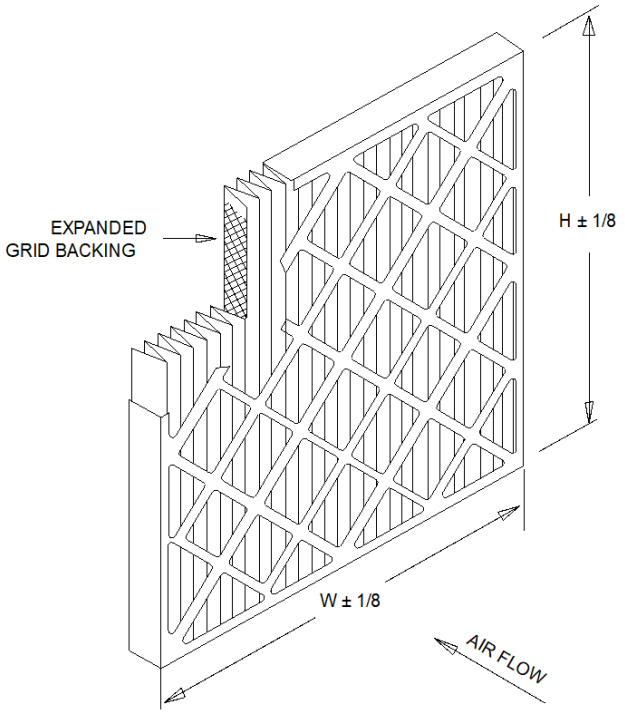
Unit Size	Lug Hole Spacing – Unit Width	Lug Rod Spacing – Unit Length
12	26.236	27.152
18	30.236	27.152
24	32.236	27.152
36	44.236	31.152
54	48.236	33.852
72	60.236	32.852
90	50.236	37.752
120	60.236	37.752

Horizontal Blower Coil

Figure 18. BCHE horizontal Blower Coil



Accessory - Blower coil
Item: A1 Qty: 1 Tag(s): FCU-B-2

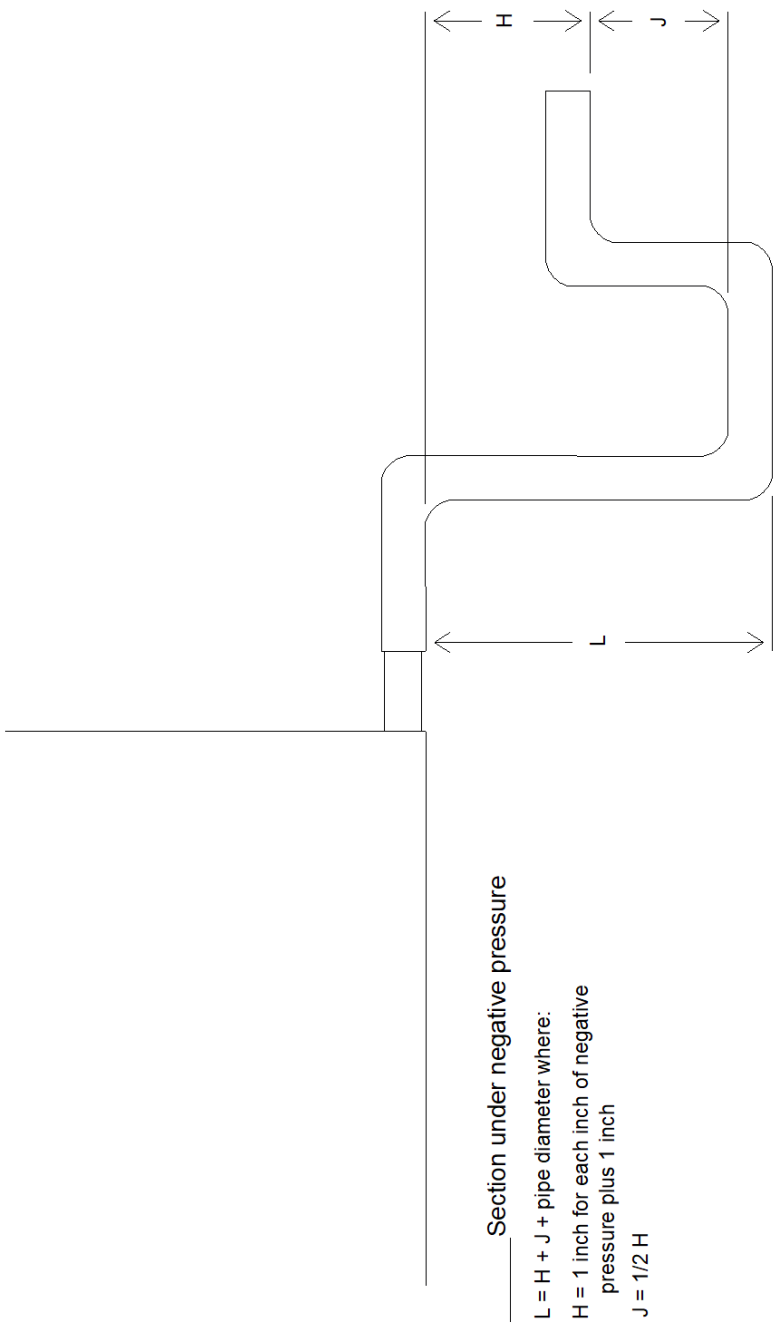


NOMINAL SIZE IN. W X H	ACTUAL SIZE IN. W X H
12 X 12	11-1/2 X 11-1/2
12 X 20	11-1/2 X 19-1/2
12 X 24	11-1/2 X 23-1/2
16 X 16	15-1/2 X 15-1/2
16 X 25	15-1/2 X 24-1/2
18 X 20	17-1/2 X 19-1/2
18 X 24	17-1/2 X 23-1/2
18 X 25	17-1/2 X 24-1/2
20 X 20	19-1/2 X 19-1/2
20 X 24	19-1/2 X 23-1/2
20 X 25	19-1/2 X 24-1/2
24 X 24	23-1/2 X 23-1/2

Unit Size	12	18	24	36	48	54	60	72	90	120
Unit Flat Filter (BCHE)										
(Qty) Size	(1) 12 X 20	(1) 12 X 24	(1) 12 X 24	(1) 12 X 12 (1) 12 X 24	-	(1) 16 X 16 (1) 16 X 25	-	(2) 16 X 25	(1) 20 X 24 (1) 24 X 24	(3) 18 X 24
Unit Flat Filter (BCVE)										
(Qty) Size	-	-	(1) 12 X 24	(1) 18 X 24	(1) 18 X 20 (1) 12 X 20	-	(1) 18 X 24 (1) 12 X 24	(2) 16 X 25	(1) 20 X 24 (1) 24 X 24	(3) 18 X 24
Bottom (or Top) Access Filter										
(Qty) Size	(1) 12 X 20	(1) 12 X 24	(1) 12 X 24	(1) 12 X 12 (1) 12 X 24	-	(1) 16 X 16 (1) 16 X 25	-	(2) 16 X 25	(1) 20 X 24 (1) 24 X 24	(3) 18 X 24
Angle Filter										
(Qty) Size	(2) 12 X 20	(2) 12 X 24	(2) 12 X 24	(2) 12 X 12 (2) 12 X 24	-	(2) 12 X 20 (2) 12 X 24	-	(2) 12 X 12 (4) 12 X 20	(2) 20 X 20 (2) 20 X 25	(6) 18 X 20

Accessory - Blower coil
Item: A1 Qty: 1 Tag(s): FCU-B-2

Drain pan trapping for negative pressure applications



Section under negative pressure

L = H + J + pipe diameter where:
H = 1 inch for each inch of negative pressure plus 1 inch
J = 1/2 H

Recommended Trap Dimensions			Connection Size
H	J	L	
1.648 in	0.824 in	3.222 in	3/4"

Accessory - Blower coil
Filter Schedule
Item: A1 Qty: 1 Tag(s): FCU-B-2

Unit Tag(s)	Filter Arrangement	Filter Type	MERV Rating	Filter Quantity	Filter Size
FCU-B-2	Flat filter	2" Pleated	MERV 8	1 1	16 x 16 16 x 25

Field Wiring - Blower coil
Item: A1 Qty: 1 Tag(s): FCU-B-2

DEVICE PREFIX LOCATION CODE	
AREA	LOCATION
1	MAIN CONTROL PANEL
2	SUPPLY FAN AND COIL SECTION
3	
4	MIXING BOX
5	EXTERNAL PIPING
6	ELECTRIC HEAT CONTROL BOX
7	FIELD INSTALLED DEVICE

NOTICE

USE COPPER CONDUCTORS O

UNIT TERMINALS ARE NOT DESIGNED TO ACCEPT OTHER TYPES OF CONDUCTORS.

FAILURE TO DO THE ABOVE COULD RESULT IN EQUIPMENT DAMAGE.

N'UTILISER QUE DES CONDUCT**AVIS** CUIVRE!

LES BORNES DE L'UNITÉ NE SONT PAS CONÇUES POUR RECEVOIR D'AUTRES TYPES DE CONDUCTEURS.

FAIRE DÉFAUT À LA PROCÉDURE CI-DESSUS PEUT ENTRAÎNER DES DOMMAGES À L'ÉQUIPEMENT.

¡UTILICE ÚNICAMENTE CONDUC**AVISO** OBRE!

LAS TERMINALES DE LA UNIDAD NO ESTÁN DISEÑADAS PARA ACEPTAR OTROS TIPOS DE CONDUCTORES.

NO SEGUIR LAS INSTRUCCIONES ANTERIORES PUEDE PROVOCAR DAÑOS EN EL EQUIPO.

⚠ WARNING

HAZARDOUS VOLTAGE!

DISCONNECT ALL ELECTRIC POWER INCLUDING REMOTE DISCONNECTS AND FOLLOW LOCK OUT AND TAG PROCEDURES BEFORE SERVICING. INSURE THAT ALL MOTOR CAPACITORS HAVE DISCHARGED STORED VOLTAGE. UNITS WITH VARIABLE SPEED DRIVE, REFER TO DRIVE INSTRUCTIONS FOR CAPACITOR DISCHARGE.

FAILURE TO DO THE ABOVE BEFORE SERVICING COULD RESULT IN DEATH OR SERIOUS INJURY.

⚠ AVERTISSEMENT

TENSION DANGEREUSE!

COUPER TOUTES LES TENSIONS ET OUVRIR LES SECTIONNEURS À DISTANCE, PUIS SUIVRE LES PROCÉDURES DE VERROUILLAGE ET DES ÉTIQUETTES AVANT TOUTE INTERVENTION. VÉRIFIER QUE TOUS LES CONDENSATEURS DES MOTEURS SONT DÉCHARGÉS. DANS LE CAS D'UNITÉS COMPORTANT DES ENTRAÎNEMENTS À VITESSE VARIABLE, SE REPORTER AUX INSTRUCTIONS DE L'ENTRAÎNEMENT POUR DÉCHARGER LES CONDENSATEURS.

NE PAS RESPECTER CES MESURES DE PRÉCAUTION PEUT ENTRAÎNER DES BLESSURES GRAVES POUVANT ÊTRE MORTELLES.

⚠ ADVERTENCIA

¡VOLTAJE PELIGROSO!

DESCONECTE TODA LA ENERGÍA ELÉCTRICA, INCLUSO LAS DESCONEXIONES REMOTAS Y SIGA LOS PROCEDIMIENTOS DE CIERRE Y ETIQUETADO ANTES DE PROCEDER AL SERVICIO. ASEGÚRESE DE QUE TODOS LOS CAPACITORES DEL MOTOR HAYAN DESCARGADO EL VOLTAJE ALMACENADO. PARA LAS UNIDADES CON EJE DE DIRECCIÓN DE VELOCIDAD VARIABLE, CONSULTE LAS INSTRUCCIONES PARA LA DESCARGA DEL CONDENSADOR.

EL NO REALIZAR LO ANTERIORMENTE INDICADO, PODRÍA OCASIONAR LA MUERTE O SERIAS LESIONES PERSONALES.

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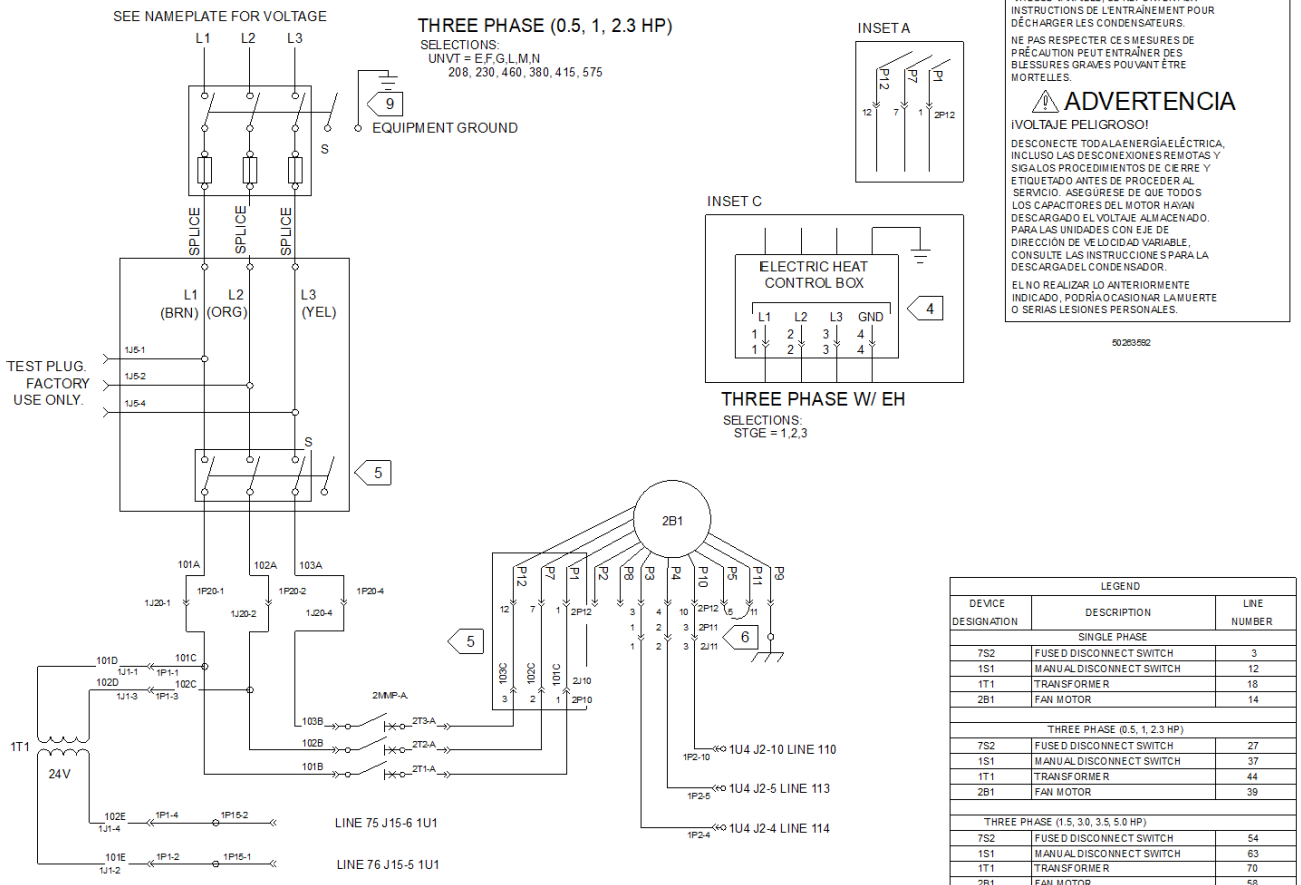

LEGEND		
DEVICE DESIGNATION	DESCRIPTION	LINE NUMBER
SINGLE PHASE		
7S2	FUSED DISCONNECT SWITCH	3
1S1	MANUAL DISCONNECT SWITCH	12
1T1	TRANSFORMER	18
2B1	FAN MOTOR	14
THREE PHASE (0.5, 1, 2.3 HP)		
7S2	FUSED DISCONNECT SWITCH	27
1S1	MANUAL DISCONNECT SWITCH	37
1T1	TRANSFORMER	44
2B1	FAN MOTOR	39
THREE PHASE (1.5, 3.0, 3.5, 5.0 HP)		
7S2	FUSED DISCONNECT SWITCH	54
1S1	MANUAL DISCONNECT SWITCH	63
1T1	TRANSFORMER	70
2B1	FAN MOTOR	58
2U1	MOTOR DRIVER	67

NOTES:

1. UNLESS OTHERWISE NOTED, ALL SWITCHES ARE SHOWN AT 25° C (77° F), AT ATMOSPHERIC PRESSURE, AT 50 % RELATIVE HUMIDITY, WITH ALL UTILITIES TURNED OFF, AND AFTER A NORMAL SHUTDOWN HAS OCCURRED.
2. DASHED LINES INDICATE RECOMMENDED FIELD WIRING BY OTHERS. DASHED LINE ENCLOSURES AND/OR DASHED DEVICE OUTLINES INDICATE COMPONENTS PROVIDED BY THE FIELD. PHANTOM LINED ENCLOSURES INDICATE ALTERNATE CIRCUITRY OR AVAILABLE SALES OPTIONS. SOLID LINES INDICATE WIRING BY TRANE CO.
3. ALL FIELD WIRING MUST BE IN ACCORDANCE WITH THE NATIONAL ELECTRIC CODE (NEC), STATE AND LOCAL REQUIREMENTS.

4 ELECTRIC HEAT SCHEMATIC IS LOCATED IN THE ELECTRIC HEAT CONTROL BOX PANEL.

5 WIRING SHOWN IS FOR NO ELECTRIC HEAT. FOR ELECTRIC HEAT SINGLE PHASE SEE INSET A&B. FOR ELECTRIC HEAT THREE PHASE SEE INSET A&C.

6 CW JUMPER IS PRESENT FROM PIN P5 TO P11 ON UNITS WITH CW MOTOR ROTATION AS VIEWED FROM SHAFT END.

7 MOTOR VOLTAGE CONFIGURATION P2-P8 JUMPERED FOR 115V OPERATION ONLY.

8 USE COPPER CONDUCTORS ONLY.

9 ATTACH EQUIPMENT GROUND .

Field Wiring - Blower coil
Item: A1 Qty: 1 Tag(s): FCU-B-2

DEVICE PREFIX LOCATION CODE	
AREA	LOCATION
1	MAIN CONTROL PANEL
2	SUPPLY FAN AND COIL SECTION
3	
4	MIXING BOX
5	EXTERNAL PIPING
6	ELECTRIC HEAT CONTROL BOX
7	FIELD SUPPLIED DEVICE

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¡UTILICE ÚNICAMENTE CONDUCTORES DE COBRE!

AVISO

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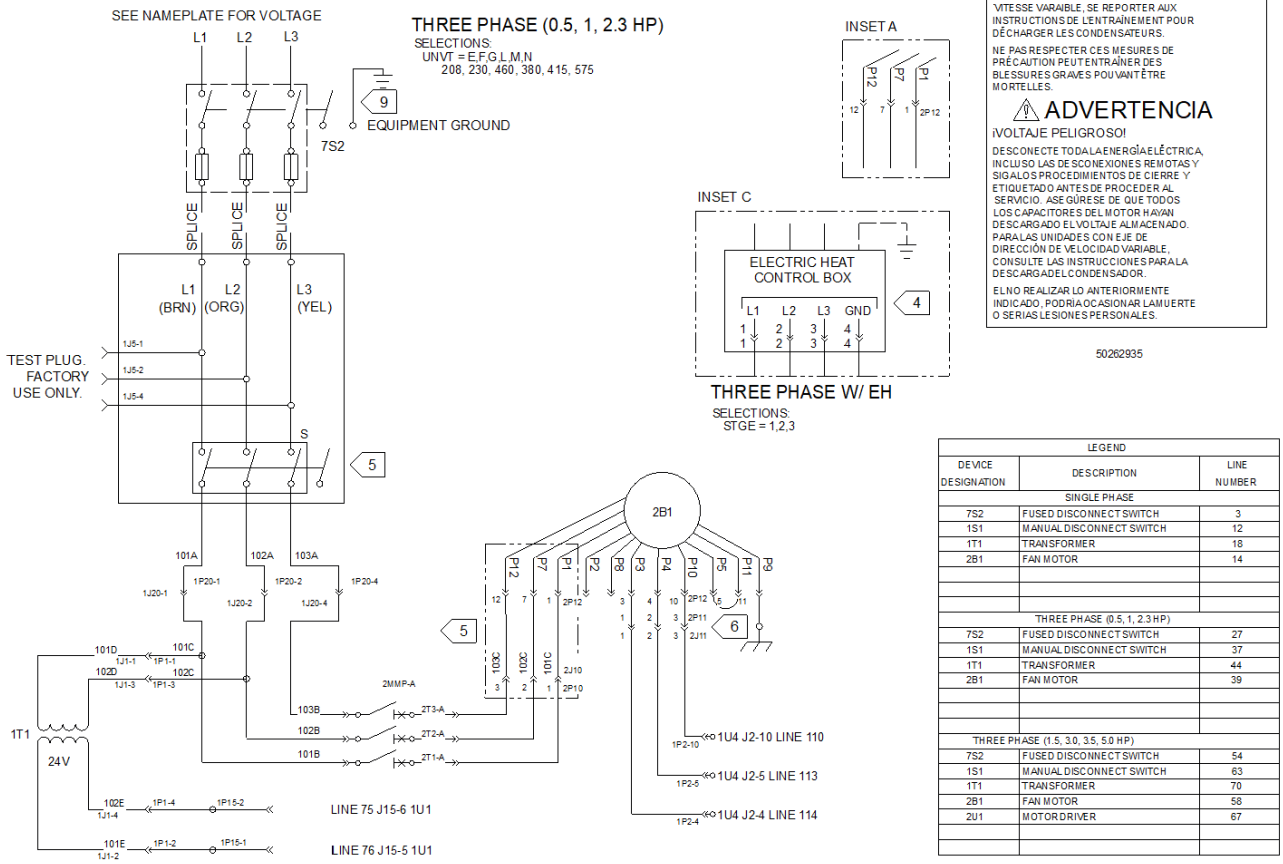

LEGEND		
DEVICE DESIGNATION	DESCRIPTION	LINE NUMBER
SINGLE PHASE		
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6. CW JUMPER IS PRESENT FROM PIN P5 TO P11 ON UNITS WITH CW MOTOR ROTATION AS VIEWED FROM SHAFT END.
7. MOTOR VOLTAGE CONFIGURATION P2-P8 JUMPERED FOR 115V OPERATION ONLY.
8. USE COPPER CONDUCTORS ONLY.
9. ATTACH EQUIPMENT GROUND .

Field Installed Options - Part/Order Number Summary
This is a report to help you locate field installed options that arrive at the jobsite. This report provides part or order numbers for each field installed option, and references it to a specific product tag. It is NOT intended as a bill of material for the job.

Product Family - Blower coil

Item	Tag(s)	Qty	Description	Model Number
A1	FCU-B-2	1	BCXE Blower Coil (BCXE)	BCHE054GAB0A1AC4A000000B0EJ00J0000BC

Field Installed Option Description	Part/Ordering Number
Outside Air & Discharge Air Sensor	

BASEMENT Duct HW Heating-Coil Submittal

Design Consultant:
Baird Hampton & Brown Inc

Date:
November 18, 2025

Mech. Contractor:
Way Mechanical

Job Name:
First Baptist Church Criswell Generator & Basement

Opportunity ID: 8242687

Trane U.S. Inc. is pleased to provide the following submittal for your review and approval.

Product Summary

Qty	Product
01	*Heating Coil - HWC-1*

Notes:

1. Hydronic specialties, **labor warranty, startup,** extended warranties not listed within the submittal, auxiliary drain pans, **smoke detectors**, equipment mounting, installation, equipment supports and/or isolators are excluded.
2. **Please verify "handedness" of equipment prior to release into production. Trane designates left/right hand connections by looking into the leaving air side of the unit w/ the air hitting you in the face.**
3. Piping packages (ball valves, strainers, unions, etc.) are specifically excluded and not provided by Trane.

Spencer Rothery, Systems Account Manager
Trane U.S. Inc.
4200 N. Sylvania Avenue
Fort Worth, TX 76137
E-mail: spencer.rothery@trane.com
Office Phone: (817) 838-1300
Cell: (512) 903-0738

The attached information describes the equipment we propose to furnish for this project and is submitted for your approval.

Submittal acceptance and return is a critical step, so please ensure submittals are returned with approval to release to production within 14 days of submittal date.

Product performance and submittal data is valid for a period of 6 months from the date of submittal generation. If six months or more has elapsed between submittal generation and equipment release, the product performance and submittal data will need to be verified. It is the customer's responsibility to obtain such verification.

Table of Contents

Tag Data - Heating Coils (Qty: 1)

Item	Tag(s)	Qty	Description	Model Number
A1	HWC-1	1	Heating coil (HTCL)	DSTB15016G0BA080BABAE0A

Product Data - Heating Coils
Item: A1 Qty: 1 Tag(s): HWC-1

ST -5/8" hot water, slip flange
Heating coil
Shipping coil
RIGHT HAND COIL CONNECTIONS
Galvanized steel casing (Std)
2 rows
15" (381mm) coil height
16" (406 mm) finned length
Aluminum fins
Prima-flo E (energy efficient)
80 fins per foot nominal fin spacing
CompleteCoat(TM) Epoxy E-coat
.020 (0.508 mm) std copper tubes
No turbulators
Outside scope of AHRI
1st year total unit parts warranty (Trane 12/18)

Product Report - Heating Coils
Item: A1 Qty: 1 Tag(s): HWC-1

Heating Coil

Equipment Details	
Coil utilization	Shipping coil

Coil Construction	
Model Number	DSTB15016G0BA080BABA*0A******
System type	Hot Water 5/8" Duct Coil, Low Water Flow (ST)
Rows	2
Tube matl/wall thickness	.020 (0.508 mm) copper
Nominal fin spacing	80 fins per foot
Fin material	Aluminum
Fin type	Prima-Flo E
Actual coil face area	1.67
Nominal coil height	15" (381mm)
Finned length	16" (406 mm)
Corrosion resistant coating	CompleteCoat(TM) Epoxy E-coat
Casing option	Galvanized
Turbulators	No
Rigging weight	16.7 lb
Installed weight	20.9 lb
Tube matl/wall thickness	.020 (0.508 mm) copper

Coil Performance

Capacity	
Total capacity	41.94 MBh
Air	
Coil type	5/8" Duct Coil, Low Water Flow (ST)
Actual airflow	880 cfm
Entering dry bulb	55.00 F
Leaving dry bulb	98.95 F
Pressure Drop	0.152 in H2O
Pressure Drop (Standard air)	0.150 in H2O
Face velocity	528 ft/min

Fluid	
Standard fluid flow rate	2.79 gpm
Entering fluid temp	180.00 F
Leaving fluid temp	150.00 F
Fluid PD	3.35 ft fluid
Fluid velocity	3.09 ft/sec
Fluid type	Water
Volume	0.50 gal
Fouling factor	0.00025 hr-sq ft-deg F/Btu
Reynolds number	38937.73 Each
AHRI 410 Classification	
AHRI 410 classification	Outside scope of AHRI
Data generation date	11/18/2025
Trane Select Assist update number	3010.00

Note: Coil is NOT certified by AHRI. Coil is outside the scope of AHRI Standard 410.

Mechanical Specifications - Heating Coils
Item: A1 Qty: 1 Tag(s): HWC-1

GENERAL
Coil is manufactured by Trane. Coil will be designed with aluminum or copper plate fins and copper/copper alloy tubes. Fins have collars drawn, belled and firmly bonded to the tubes by means of mechanical expansion of the tubes. Coil has airflow arrow and nameplate attached to coil casing. Coil is outside of the scope of AHRI Standard 410.

TYPE "ST" HOT WATER COIL
A single tube feed, booster coil, with 5/8" [16mm] OD tubes. Coil has a slip-flange casing for low cost duct installation. Coil is proof tested at a minimum of 300 psig [2068kPa] and leak tested to 200 psig [1379kPa], air pressure under water. Working pressure for hot water is maximum 225 psig [1551kPa] at 325F [163C]. Coil can be used for non-modulating steam coil applications. For steam applications, working pressure is maximum 100 psig [689kPa]at 400F [204C]. Coil supply/return connections are made of steel.

COIL CASING
Coil casing is manufactured with galvanized steel.

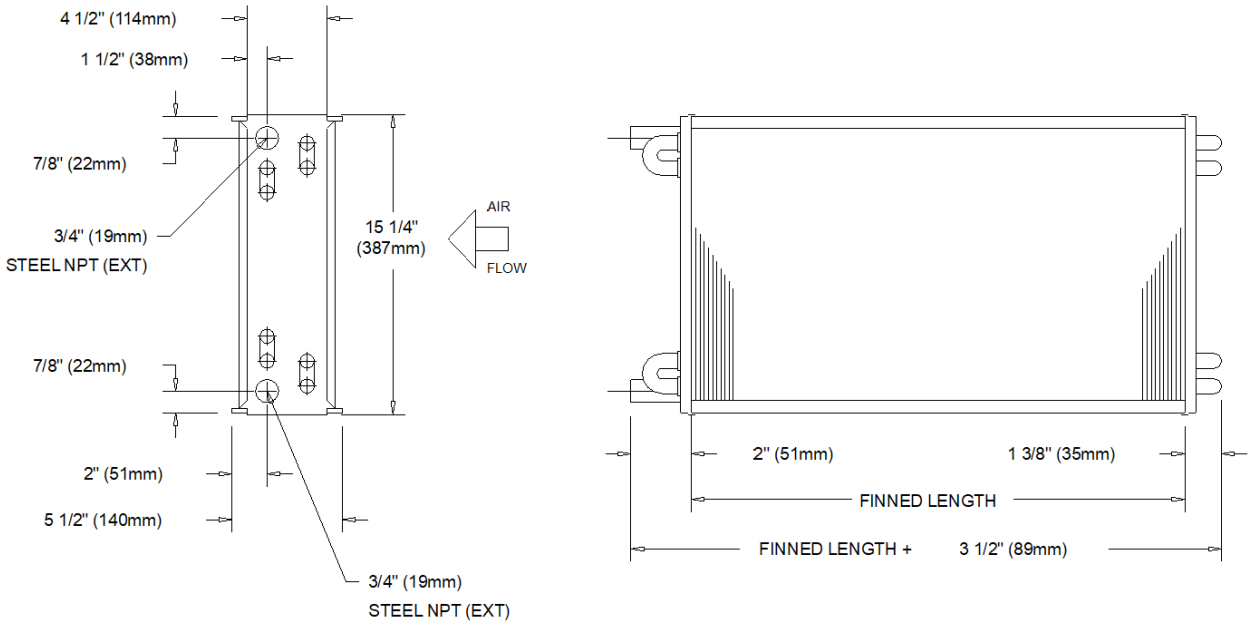
COIL PLATE FIN TYPE
Aluminum plate fin is Trane PRIMA FLO E (Energy Efficient) fin design.

COIL SUPPLY CONNECTION
Coil supply connection is on right side of coil with horizontal airflow (facing airflow).

COIL COATING
Coil shall have a flexible epoxy polymer e-coat uniformly applied to all coil surface areas without material bridging between fins. Coating process shall ensure complete coil encapsulation and a uniform dry film thickness from 0.8 - 1.2 mil on all surface areas including fin edges. Superior hardness characteristics of 2H per ASTM D3363-92A and a cross-hatch adhesion of 4B-5B per ASTM B3359-93. Impact resistance shall be up to 160 in/lb per ASTM D2794-93. Humidity and water immersion resistance shall be up to a minimum 1000 and 260 hours respectively (ASTM D2247-92 and ASTM D870-02). Corrosion durability shall be confirmed through testing to no less than 5,000 hours salt spray per ASTM B117-90 using scribed aluminum test coupons.

Dimensional Drawings - Heating Coils
Item: A1 Qty: 1 Tag(s): HWC-1

HORIZONTAL AIR FLOW
RIGHT HAND SUPPLY



HORIZONTAL AIR FLOW
LEFT HAND SUPPLY