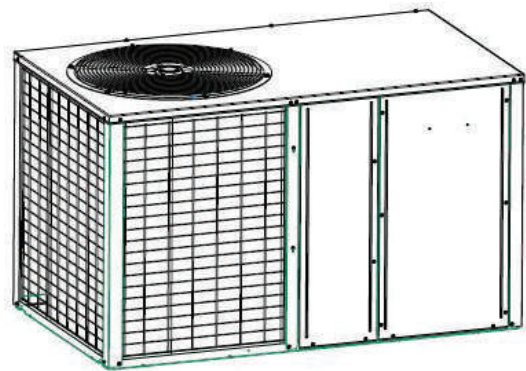


# Submittal

## Single Packaged Heat Pump

4WCA4060C1000A



*Note: "Graphics in this document are for representation only. Actual model may differ in appearance."*

# Product Specifications

<b>MODEL</b>	4WCA4060C1000A
RATED Volts/PH/Hz	208-230/1/60
Performance Cooling BTUH <sup>(a)</sup>	56000
Indoor Airflow (CFM)	1530
Power Input (KW)	4.89
EER2/SEER2 (BTU/Watt-Hr.) <sup>(b)</sup>	10.6/13.4
Sound Power Rating [dB(A)] <sup>(c)</sup>	78.8
<b>PERFORMANCE HEATING</b>	
(High Temp.) BTUH	53500
Power Input (KW)	4.57
(Low Temp.) BTUH	30800
Power Input (KW)	4.13
HSPF2 (BTUH/Watt-Hr)	6.7
<b>POWER CONN. — V/Ph/Hz</b>	208/230/1/60
Min. Brch. Cir. Ampacity <sup>(d)</sup>	42
Fuse Size — Max. (amps)	60
Fuse Size — Recmd. (amps)	60
<b>COMPRESSOR</b>	
	SCROLL
VOLTS/PH/HZ	208/230/1/60
R.L. Amps — L.R. Amps	24.4/144.2
<b>OUTDOOR COIL — TYPE</b>	
	PLATE FIN
Rows/F.P.I	2/18
Face Area (sq. ft.)	15.6
Tube Size (in.)	5/16
Refrigerant Control	EXPANSION VALVE
<b>INDOOR COIL — TYPE</b>	
	PLATE FIN
Rows/F.P.I	4/16
Face Area (sq. ft.)	5.43
Tube Size (in.)	5/16
Refrigeration Control	EXPANSION VALVE
Drain Conn. Size (in.)	3/4 MALE NPT
<b>OUTDOOR FAN — TYPE</b>	
	PROPELLER

DIA. (IN.)	23
DRIVE/NO. SPEEDS	DIRECT / 1
CFM @ 0.0 in. w.g. <sup>(e)</sup>	4160
Motor — HP/R.P.M	1/3 / 1100
Volts/Ph/Hz	208-230/1/60
F.L. Amps/L.R Amps	2.8 FLA
<b>INDOOR FAN — TYPE</b>	
	CENTRIFUGAL
Dia. x Width (in.)	11 X 11
Drive/No. Speeds	DIRECT / 3
CFM @ 0.0 in. w.g. <sup>(f)</sup>	SEE FAN PERFORMANCE TABLE
Motor — HP/R.P.M.	1 / VARIABLE
Volts/Ph/Hz	208-230/1/60
F.L. Amps	6.6
<b>FILTER / FURNISHED</b>	
	NO
Type Recommended	THROWAWAY
Recmd. Face Area (sq. ft) <sup>(g)</sup>	5.3
<b>REFRIGERANT</b>	
	R-410A
Charge (lbs.)	8.2
<b>CHARGING SPECIFICATIONS</b>	
Subcooling	10°
<b>DIMENSIONS</b>	
	H X W X L
Crated (in.)	45 7/8 x 36 3/8 x 61 1/8
<b>WEIGHT</b>	
Shipping (lbs.) / Net (lbs.)	505

(a) Rated in accordance with AHRI Standard 210/240.

(b) Rated in accordance with D.O.E. test procedure.

(c) Sound Power values are not adjusted for AHRI 270-95 tonal corrections.

(d) Calculated in accordance with currently prevailing Nat'l Electrical Code.

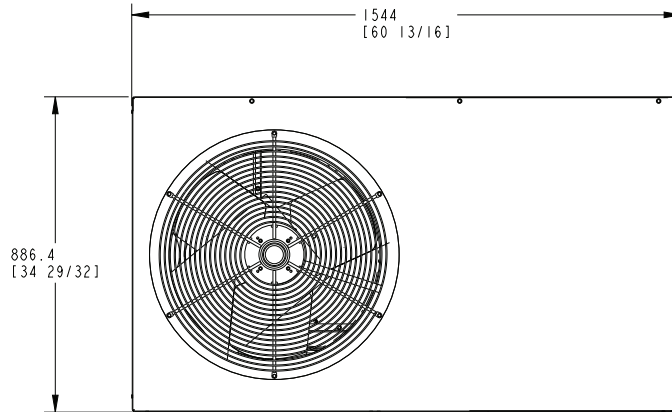
(e) Standard Air — Dry Coil — Outdoor.

(f) Standard Air — Dry Coil — Indoor

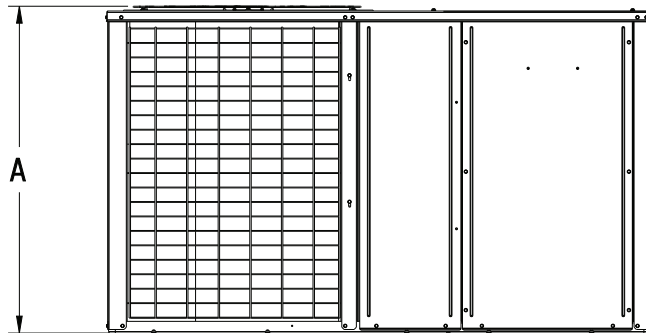
(g) Filters must be installed in return air stream. Square footages listed are based on 300 f.p.m. face velocity. If permanent filters are used size per manufacturer's recommendation with a clean resistance of 0.05" W.C.

# Outline Drawings

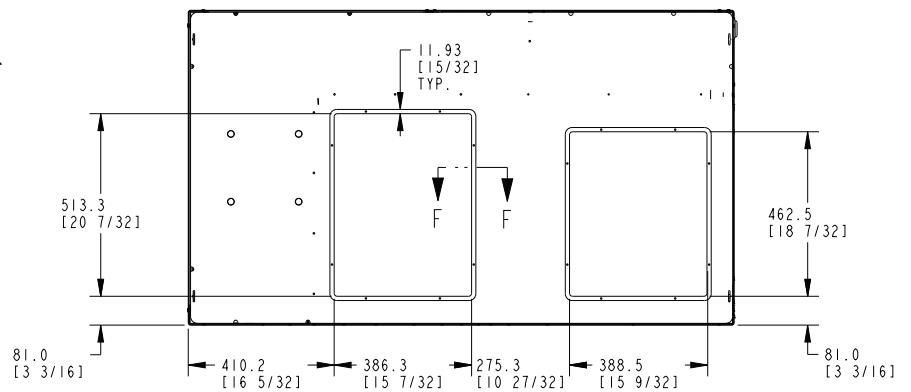
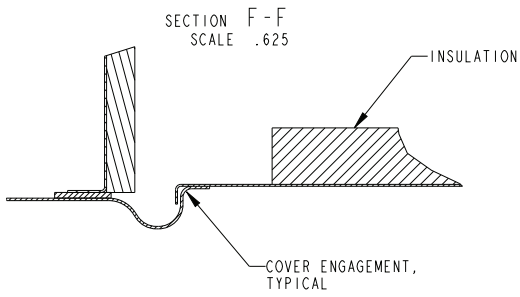
**Figure 1. 2 – 5 Tons**



**TOP SIDE**

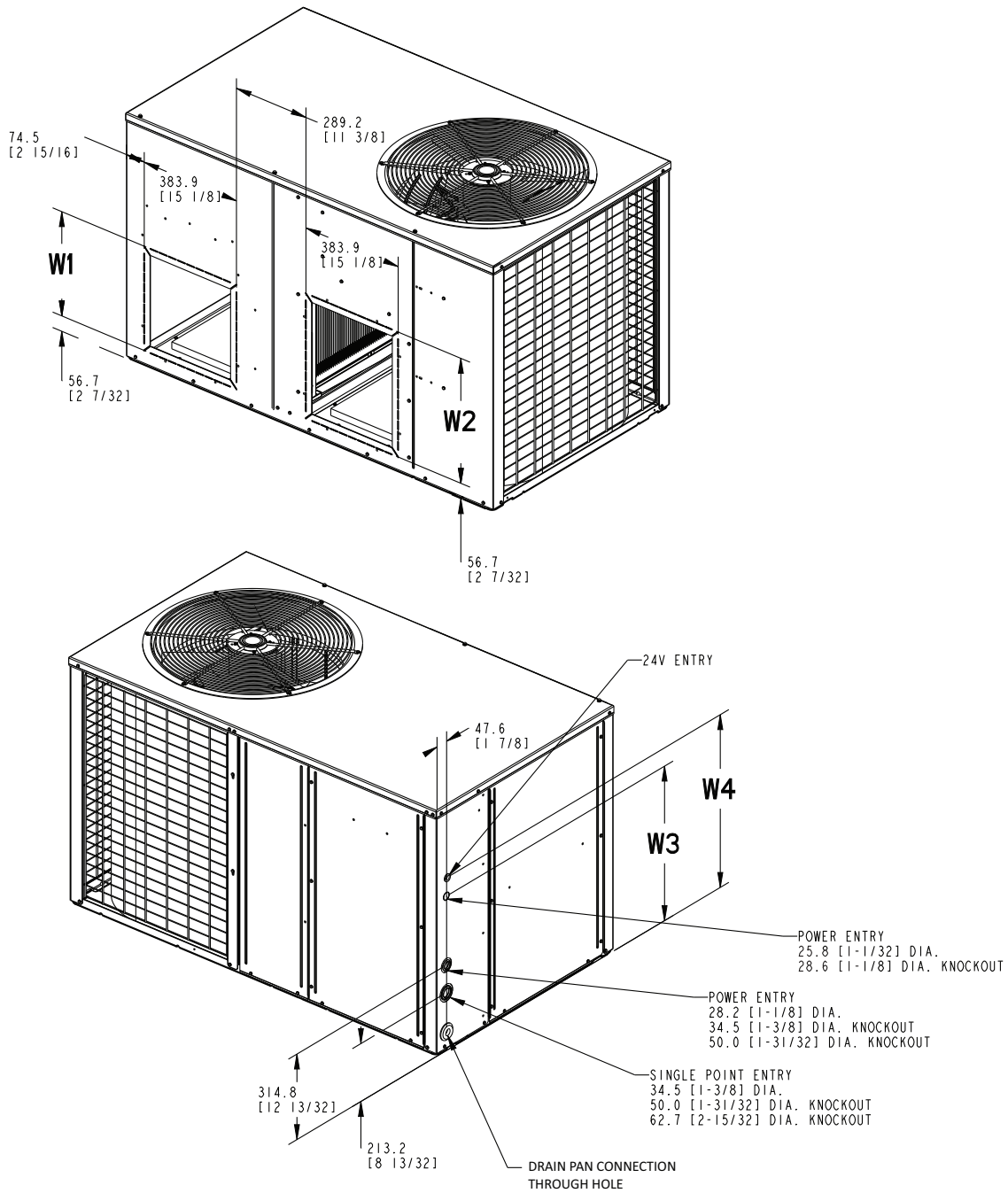


**FRONT SIDE**



**BOTTOM SIDE**

Figure 2. 2 – 5 Tons



MODEL	HEIGHT MM/IN .					NET WEIGHT/LBS
	A	W1	W2	W3	W4	
4WCA4024C	918.8 [36-5/32]	383.9 [15 1/8]	460.1 [18 1/18]	568.8 [22 13/32]	636.1 [25 1/32]	410
4WCA4030C	918.8 [36-5/32]	383.9 [15 1/8]	460.1 [18 1/18]	568.8 [22 13/32]	636.1 [25 1/32]	410
4WCA4036C	918.8 [36-5/32]	383.9 [15 1/8]	460.1 [18 1/18]	568.8 [22 13/32]	636.1 [25 1/32]	430
4WCA4042C	918.8 [36-5/32]	383.9 [15 1/8]	460.1 [18 1/18]	568.8 [22 13/32]	636.1 [25 1/32]	440
4WCA4048C	1045.8 [41-5/32]	460.1 [18 1/8]	510.9 [20 1/8]	645.0 [25 13/32]	712.3 [28 1/32]	460
4WCA4060C	1045.8 [41-5/32]	460.1 [18 1/8]	510.9 [20 1/8]	645.0 [25 13/32]	712.3 [28 1/32]	460

# Indoor Fan Performance (230v)

**Table 1. Heater Table**

Heater	Minimum Heater Airflow CFM
	4WCA4060C1000A
BAYHTR1V05LUGAA	1500
BAYHTR1H08LUGAA	1500
BAYHTR1H10LUGAA	1500
BAYHTR1H15BRKAA	1500
BAYHTR1H20BRKAA	1850

**Table 2. Cooling Airflow Table**

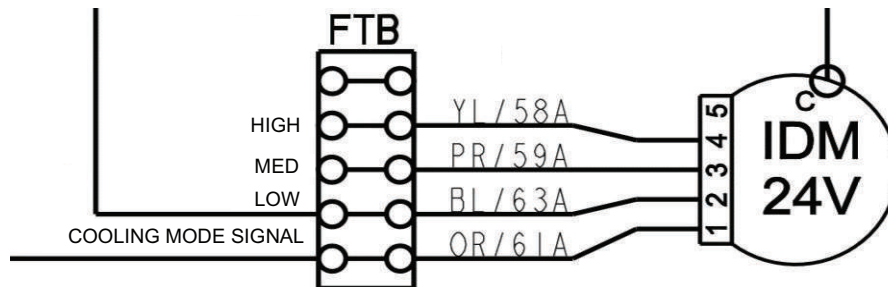
4WCA4060C	ESP	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1
Low	CFM	1760	1691	1620	1542						
	WATTS	381	398	414	431						
Medium	CFM	1996	1934	1875	1814	1755	1683	1605	1536	1466	
	WATTS	505	521	536	553	563	579	595	610	624	
High	CFM								1953	1879	1815
	WATTS								984	980	978

**Note:** Airflow must not exceed 2250 CFM due to condensate blowoff.

**Table 3. Heating Airflow Table**

4WCA4060C	ESP	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1
Low	CFM	1980	1914	1860	1792	1721	1652	1577	1552	1527	
	WATTS	507	526	541	559	579	594	611	618	624	
Medium	CFM	2113	2055	2002	1946	1889	1827	1758	1690	1619	
	WATTS	606	622	639	653	671	686	704	720	739	
High	CFM								1953	1879	1815
	WATTS								984	980	978

**Note:** Airflow must not exceed 2250 CFM due to condensate blowoff.

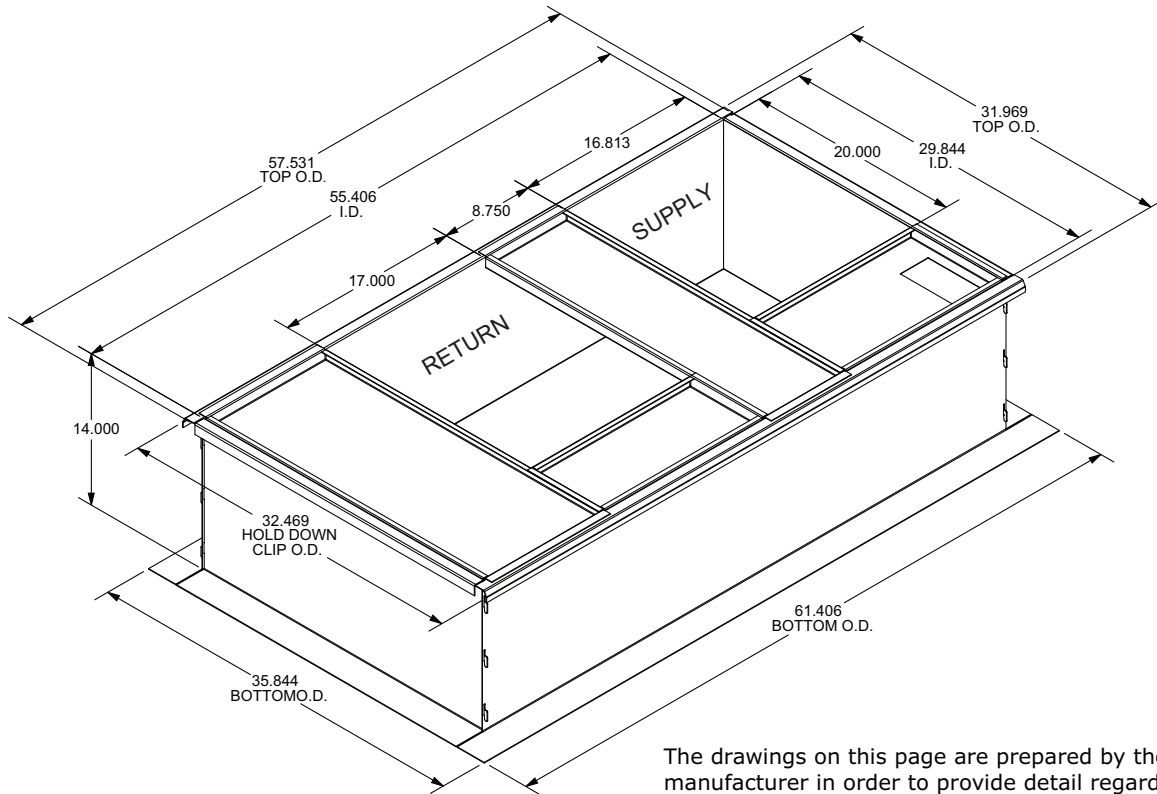


COOLING MODE SIGNAL DETERMINES COOLING/HEATING AIRFLOW. COOLING MODE SIGNAL ENERGIZED PROVIDES COOLING AIRFLOW, UNENERGIZED PROVIDES HEATING AIRFLOW.

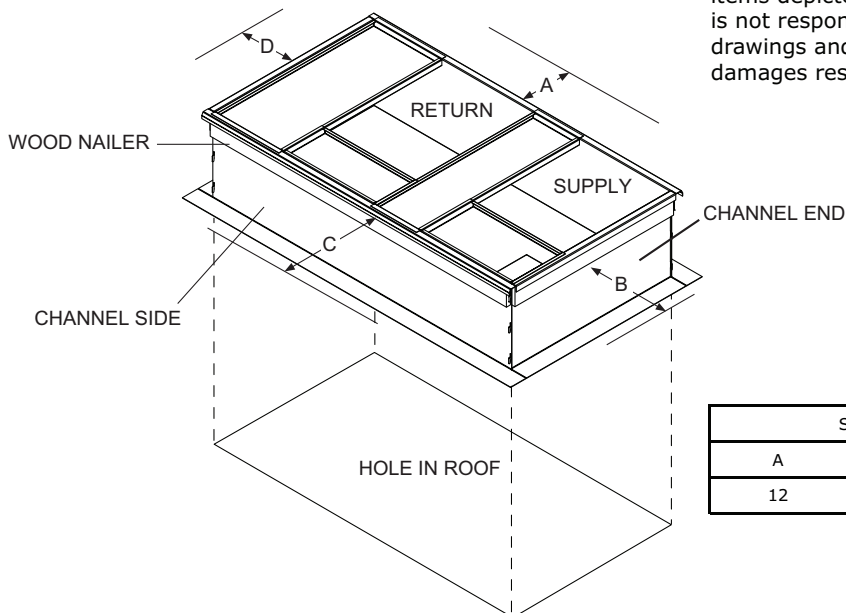
# Full Perimeter Roof Mounting Curb

Figure 3. 2.0 – 5.0 Ton Models

## BAYCURB060A Full Perimeter Roof Mounting Curb



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SERVICE CLEARANCE DIMENSIONS			
A	B	C	D
12	42	42	36

# Supplementary Electric Heaters

**Table 4. HP Models Only**

UNIT MODEL	ELECTRIC HEATER MODEL	RATED VOLT-AGE	PHASE	AMPS	HEATER CAPACITY		NO. OF STAGES	KW/STAGE		MCA	MAX. OVER CURRENT PROTECTION DEVICE
					KW	BTUH		1	2		
4WCA4024*1000A 4WCA4030*1000A 4WCA4036*1000A	BAYHTR1V05LUGA*	208/240	1	17/ 20	3.6/ 4.8	12300/ 16400	1	3.6/ 4.8	—	22/ 25	25/ 25
4WCA4042*1000A 4WCA4048*1000A	BAYHTR1H08LUGA*	208/240	1	28/ 32	5.76/ 7.68	19700/ 26200	1	5.76/ 7.68	—	35/ 40	35/ 40
4WCA4060*1000A	BAYHTR1H10LUGA*	208/240	1	35/ 40	7.2/ 9.6	24600/ 32800	1	7.2/ 9.6	—	43/ 50	45/ 50
4WCA4036*1000A 4WCA4042*1000A 4WCA4048*1000A 4WCA4060*1000A	BAYHTR1H15BRKA*	208/240	1	52/ 60	10.8/ 14.4	36900/ 49100	2	7.2/ 9.6	3.6/ 4.8	65/ 75	70/ 80
4WCA4060*1000A	BAYHTR1H20BRKA*	208/240	1	69/ 80	14.4/ 19.2	49100/ 65500	2	7.2/ 9.6	7.2/ 9.6	87/ 100	90/ 100

1. Any power supply and circuits must be wired and protected in accordance with local electrical codes.  
 2. The values listed in the above table are for the electric heater only.  
 3. Field wiring must be rated at least 75° C.  
 4. \* indicates an alpha character

ALL VALUES ARE FOR THE ELECTRIC HEATER ONLY

**Table 5. BAYSPEK - Single Power Entry Kit**

SINGLE CIRCUIT POWER AMPACITY AND OVER CURRENT PROTECTION				
UNIT MODEL	SINGLE POWER ENTRY KIT	HEATER MODEL	MIN CKT AMP	MAX OVER-CURRENT DEVICE
4WCA4060C	BAYSPEK070	BAYHTR1V05	67	80
		BAYHTR1H08	82	90
		BAYHTR1H10	92	100
	BAYSPEK071	BAYHTR1H15	117	125
		BAYHTR1H20	142	150

# Mechanical Specifications

## General

The units shall be horizontal airflow as shipped and convertible to downflow. All units shall be factory assembled, piped, internally wired and fully charged with refrigerant. Units shall be certified to UL Standard 1995. All units shall be factory run tested to check cooling operation, fan and blower rotation and control or TXV sequence. Units shall be designed to operate at ambient temperatures between 115°F and 55°F in cooling as manufactured. Cooling performance shall be rated in accordance with AHRI standards.

## Unit Casing

All components shall be mounted in a weather-resistant steel cabinet with an enamel finish. Access panels shall be provided for unit controls and indoor coil and fans. Indoor air section compartment shall be completely insulated with fireproof, permanent, odorless fiber material. Knockouts shall be provided for utility and control connections. Drain connections shall be provided to accommodate indoor water runoff.

## Compressor (2 and 2 1/2 Ton Models)

The compressor shall be hermetically sealed, high efficiency rotary compressors. Internal overcurrent and over temperature protection, internal pressure relief shall be standard. Other features include centrifugal oil pump, low vibration and noise.

## Compressor (3–5 Ton Models)

The compressor shall be hermetically sealed, high efficiency scroll compressors. Internal overcurrent and over temperature protection, internal pressure relief shall be standard. Other features include centrifugal oil pump, low vibration and noise.

## Refrigeration System

All units shall have refrigerant control. Service pressure tap ports and a refrigerant line filter shall be standard.

**Evaporator Coil** Internally enhanced 3/8" OD seamless copper tubing mechanically bonded to aluminum fins, factory pressure and leak tested at 480 – 650 psig. All units have TXV to control refrigerant flow.

## Condenser Coil

All aluminum micro channel, extruded tubes, mechanically bonded to aluminum fins, and factory pressure and leak tested at 480 – 650 psig.

## Indoor Air Fan

Constant Torque, forward-curved, centrifugal wheel in a Metallic Blower housing. Motor shall have thermal overload protection and permanently lubricated motor bearings. Motor/blower assembly isolated from unit with rubber mounts.

## Outdoor Fan

One direct-drive, statically and dynamically balanced propeller fan shall be used in a draw-through vertical discharge configuration. Permanently lubricated weather proof motor shall have built-in thermal overload protection.

## System Controls

System controls include condenser fan, evaporator fan and compressor contactors.

## Accessories Roof Curb

The roof curb shall be designed to mate with the unit and provide support and complete weathertight installation when properly installed. Adhesive back polyurethane sealing strips shall be provided to ensure an airtight seal between supply and return openings of the curb and unit. The roof curb design allows field fabricated ductwork to be connected directly to the curb. Curb ships knocked down for field assembly, and includes factory installed wood nailer strips.

## Electric Heaters

Each heater assembly shall include power supply fusing if over 48 amps, automatic resetting limit switches and heat limiters for thermal protection. Heaters shall be provided with polarized plugs for quick connection to unit low voltage wiring. Electric heat modules shall be UL listed.

## Single Source Power Entry

This accessory when used with electric heat accessory shall allow single source power connection to unit and heater combination. Single source power entry kits shall have specific matching heater(s). Kit shall include high voltage terminal blocks, fuse blocks and fuses, cut-to-length interconnecting wiring, and junction box (if required) to provide power sources with fuse protection as required for both the unit and accessory heater. Kit components shall install within the heater cabinet in the heater access section. Single source branch power circuit shall be protected and wired in accordance with local codes.



### **Start Kit**

Extra compressor starting capacity for single phase equipment.

### **Control Options**

#### **Standard Indoor Thermostats**

Two stage heating/cooling or one stage heating/cooling thermostats shall be available in either manual or automatic changeover.

### **Programmable Electronic Night Setting Thermostat**

Programmable electronic thermostat shall provide heating setback and cooling setup with 7-day programming capability. 1H/1C or 2H/2C models available.

## About Trane and American Standard Heating and Air Conditioning

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