

# Precedent Gas/Electric Packaged Rooftop

Unit Ove	erview - Y	SC048G4	RHB**000	0000000	00000000	00000000					
Application	Unit Size	Supp	ly Fan	Extern	al Dimensio	ns (in.)	Operatin	g Weight	EER	IEER/SEER	Elevation
DX cooling, gas heat	4 Ton (048)	Airflow	External Static Pressure	Height	Width	Length	Minimum	Maximum	12.0 EER	14.00	804.00 ft
yas neat	,	1600 cfm	0.500 in H2O	3.41 ft	3.69 ft	5.82 ft	492.0 lb	767.0 lb			

# **Unit Features**

Unit Electrical	
Voltage/phase/hertz	460/60/3
MCA	11.00 A
MOP	15.00 A



### **Controls**

Controls			ocessor controls are special roll in the control of	
Controls			s?	
	Un	nit Controls Micropro	ocessor controls	
			, 6°	
Cooling Section			alon.	
Entering Dry Bulb	80.00 F		Capa	acity
Entering Wet Bulb	67.00 F		Capa Gross Total	48.85 MBh
Ambient Temp	95.00 F		Gross Sensible	37.78 MBh
Leaving Coil Dry Bulb	56.81 F	co.	Net Total	47.55 MBh
Leaving Coil Wet Bulb	56.81 F	differ	Net Sensible	36.49 MBh
Leaving Unit Dry Bulb	58.62 F	$\mathcal{A}_{\mathcal{O}}$	Fan Motor Heat	1.30 MBh
Leaving Unit Wet Bulb	57.50 F	abers may C	Refrig Charge-circuit 1	3.5 lb
Refrigeration S	ystem Options	als)		
Leaving Dew Point	56.82 F	1/0		

Heat Type Gas Heat
Heating Stages 2
Output Heating Capacity 105.30 MBh
Output Heating Capacity with Fan
Heating EAT
Heating 1 **Heating Section** 

Fan Section	
Indoor Fan Data	Outdoor Fan Data
Type FC Centrifugal	Type Propeller
Drive Type Direct	Fan Quantity 1
Evap Fan FLA 2.50 A	Drive Type Direct
Indoor Fan Performance	Outdoor Fan Performance
Airflow 1600 cfm	Condenser Fan FLA 0.70 A
Design ESP 0.500 in H2O	

**Compressor Section** Power 3.40 kW Circuit 1 RLA 6.20 A

Circuit 2 RLA 0.00 A

Component SP 0.000 in H2O **Total SP** 0.500 in H2O

Supply Motor Horsepower 1.000 hp **Indoor Motor Operating Power** 0.53 bhp

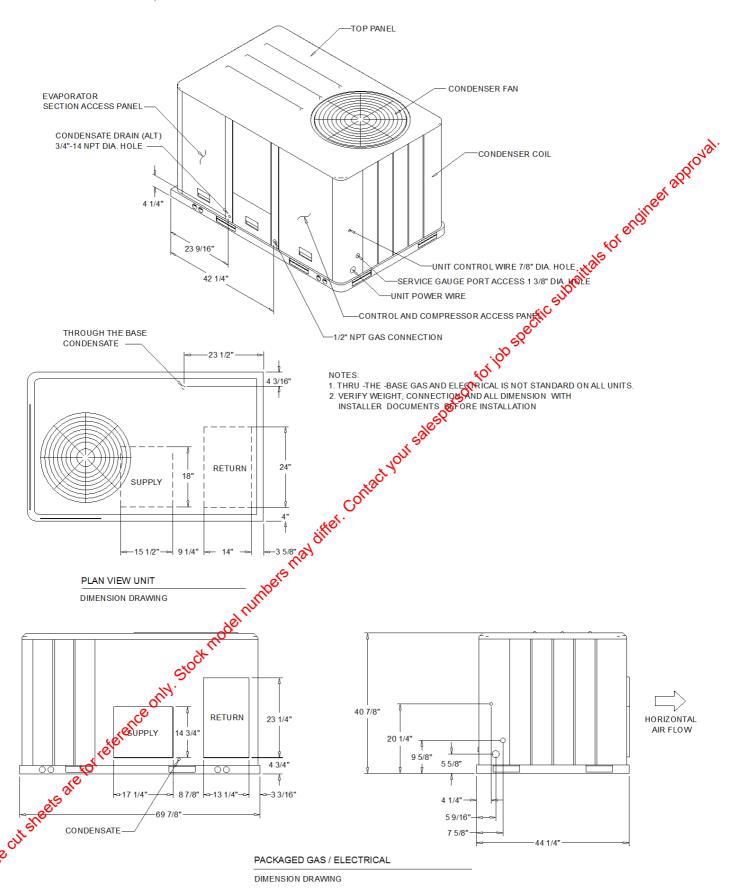
> Indoor Motor Power 0.39 kW Indoor RPM 1016 rpm



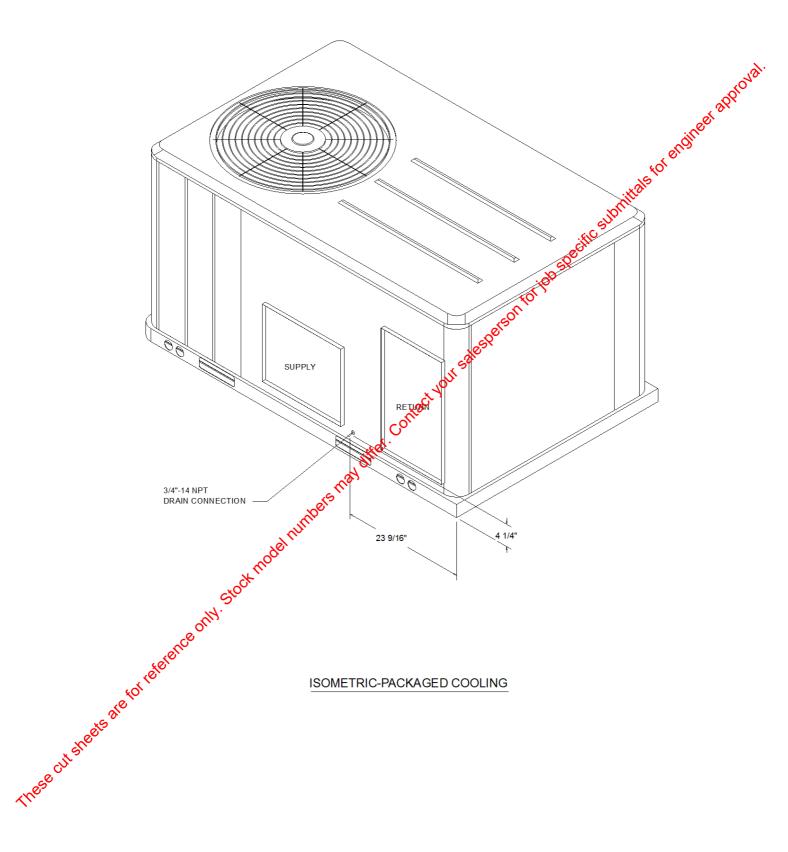
Acoustics								
Sound Path	63 Hz	125 Hz	250 Hz	500 Hz	1 kHz	2 kHz	4 kHz	8 kHz
Ducted Discharge	89 dB	70 dB	67 dB	62 dB	58 dB	54 dB	53 dB	46 dB
Ducted Inlet	91 dB	70 dB	65 dB	55 dB	52 dB	49 dB	46 dB	41 dB
Outdoor Noise	81 dB	82 dB	83 dB	81 dB	77 dB	72 dB	66 dB	59 dB

Note: Ducted Inlet and Ducted Discharge Sound Power Levels are in accordance with AHRI 260.

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ISOMETRIC-PACKAGED COOLING

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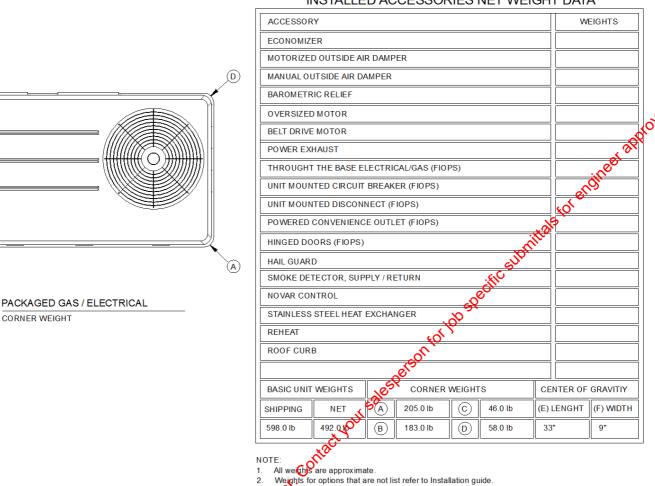
### **ELECTRICAL / GENERAL DATA**

Mode:
Unit Operating Voltage
Unit Primary Voltage
No.
Note
NDCES:   NIADOR MOTOR   Standard Motor
NDOOR MOTOR   Standard Motor   Standar
NDEOR MOTOR
NDEOR MOTOR
NDOOR MOTOR   Standard Motor   Standar
Note
NDCES:   NIADOR MOTOR   Standard Motor
NDOOR MOTOR   Standard Motor   Oversized Motor   Field Installed Oversized Motor   Number:   1
POWER EXHAUST ACCESSORY  Fill Load Amps: N/A Locked Rotor Amps  Phase: N/A Locked Rotor Amps  Fill Load Amps: 1 Horsepower: 3.6 Locked Rotor Amps  Fill Load Amps: 1 Horsepower: 3.6 Locked Rotor Amps  Fill Load Amps: 1 Horsepower: 3.6 Locked Rotor Amps  Fill Load Amps: 1 Horsepower: 1 Horsepower: 3.6 Fill Load Amps: 6.2 Locked Rotor Amps  Fill Load Amps: 1 Horsepower: 1 Fill Load Amps: 1 Cocked Rotor Amps  Type: Throwawayay  Factory Charge Factory Charge Factory Charge Circuit #1 3 1/2" Circuit #1 3 1/2" Circuit #1 3 1/2" Circuit #2 N/A  NOTES:  NOTES: Locked Rotor Amps is an approximate value. For a more precise value see unit nameplate and service instructions.
Motor Speed (RFM). — Motor Speed (RFM). — Phase 1
POWER EXHAUST ACCESSORY  Phase: N/A Foreign Development in the United States only.  Phase: N/A Foreign Development in the United States only.  Phase: N/A Foreign Development in the United States only.  Notes:  N/A Foreign Throw away of Furth in the United States only.  Refrigerant charge is an approximate value. For a more precise value for each states only.  Refrigerant charge is an approximate value. For a more precise value for each states only.  Note Speed (RPM). N/A Phase N/A N/A  NOTES: N/A NOTES: NOTE
POWER EXHAUST ACCESSORY  Fill Load Amps: N/A Locked Rotor Amps  Phase: N/A Locked Rotor Amps  Fill Load Amps: 1 Horsepower: 3.6 Locked Rotor Amps  Fill Load Amps: 1 Horsepower: 3.6 Locked Rotor Amps  Fill Load Amps: 1 Horsepower: 3.6 Locked Rotor Amps  Fill Load Amps: 1 Horsepower: 1 Horsepower: 3.6 Fill Load Amps: 6.2 Locked Rotor Amps  Fill Load Amps: 1 Horsepower: 1 Fill Load Amps: 1 Cocked Rotor Amps  Type: Throwawayay  Factory Charge Factory Charge Factory Charge Circuit #1 3 1/2" Circuit #1 3 1/2" Circuit #1 3 1/2" Circuit #2 N/A  NOTES:  NOTES: Locked Rotor Amps is an approximate value. For a more precise value see unit nameplate and service instructions.
Full Load Amps: 2.5 Locked Rotor Amps N/A Locked Rotor Amps N/A Locked Rotor Amps Locked Rotor Amps Locked Rotor Amps Locked Rotor Amps N/A Locked Rotor Amps Locked Rotor Amps Locked Rotor Amps Locked Rotor Amps N/A Number N/A Number N/A Number N/A Recommended N/A Recommended N/A Recommended N/A Recommended N/A N/A Recommended N/A Recommended N/A N/A N/A Recommended N/A N/A Recommended N/A N/A Recommended N/A N/A N/A Recommended N/A N/A Recommended N/A N/A Recommended N/A N/A N/A Recommended N/A N/A N/A Recommended N/A N/A N/A N/A Recommended N/A N/A N/A N/A Recommended N/A
Locked Rotor Amps — Locked Rotor Amps N/A Recommended N/A Recommended N/A Recommended N/A Recommended N/A Recommended N/A Locked Rotor Amps N/A Recommended N/A
COMPRESSOR Circuit 1/2  Number: 1 Horsepower: 3.6 Phase: 3 Rated Load Amps: 6.2 Locked Rotor Amps 41.0  POWER EXHAUST ACCESSORY (3.7) (Field Installed Power Exhaust) Phase: N/A Horsepower: N/A Motor Speed (RPM): 1100 Phase: N/A Horsepower: N/A Motor Speed (RPM): 1100 Phase: N/A Number 2 Circuit #1 3 1/2" Circuit #1 3 1/2" Circuit #2 N/A  NOTES:  1. Maximum (HACR) Circuit Breaker sizing is for installations in the Unite States only. 2. Refrigerant charge is an approximate value. For a more precise value see unit nameplate and service instructions.
Phase: 3 Rated Load Amps: 6.2 Locked Rotor Amps 41.0  POWER EXHAUST ACCESSORY (3.7) (Field Installed Power Exhaust)  Phase: N/A Horsepower: N/A Motor Speed (RPM): 1100 Full Load Amps: Locked Rotor Amps  Type: Throwawayayayayayayayayayayayayayayayayayay
Phase: 3 Rated Load Amps: 6.2 Locked Rotor Amps 41.0  POWER EXHAUST ACCESSORY (3.7) (Field Installed Power Exhaust)  Phase: N/A Horsepower: N/A Horsepower: N/A Horsepower: N/A Motor Speed (RPM): 1100 Phase: N/A Horsepower: N/A Motor Speed (RPM): 1100 Phase: N/A Horsepower: N/A Motor Speed (RPM): 1100 Phase: N/A Full Load Amps: N/A Recommended 20 Number 2 Circuit #1 3 1/2" Circuit #2 N/A   NOTES:  1. Maximum (HACR) Circuit Breaker sizing is for installations in the United States only. 2. Refrigerant charge is an approximate value. For a more precise value see unit nameplate and service instructions.
Phase: 3 Rated Load Amps: 6.2 Locked Rotor Amps 41.0  Motor Speed (RPM): 1100 Phase: Full Load Amps: Locked Rotor Amps 3  FILTERS  REFRIGERANT (2)  Type: Throwaward Horsepower: N/A Horsepower: N/A Motor Speed (RPM): N/A Full Load Amps: Locked Rotor Amps 2 N/A NOTES: N/A  NOTES:  1. Maximum (HACR) Circuit Breaker sizing is for installations in the United States only. 2. Refrigerant charge is an approximate value. For a more precise value see unit nameplate and service instructions.
Phase: 3 Rated Load Amps: 6.2 Locked Rotor Amps 41.0  POWER EXHAUST ACCESSORY (3.7) (Field Installed Power Exhaust)  Phase: N/A Horsepower: N/A Motor Speed (RPM): 1100 Full Load Amps: Locked Rotor Amps  Type: Throwawayayayayayayayayayayayayayayayayayay
Rated Load Amps: 6.2 Locked Rotor Amps 41.0  Phase: Full Load Amps: Locked Rotor Amps 41.0  FILTERS  REFRIGERANT (2)  Type  Phase: N/A Horsepower: N/A Horsepower: N/A Horsepower: N/A Full Load Amps: Locked Rotor Amps N/A Full Load Amps: N/A Recommended 20 x 5 x 2"  NOTES:  1. Maximum (HACR) Circuit Breaker sizing is for installations in the United States only. 2. Refrigerant charge is an approximate value. For a more precise value see unit nameplate and service instructions.
POWER EXHAUST ACCESSORY (3.7) (Field Installed Power Exhaust)  Phase: N/A Horsepower: N/A Motor Speed (RPM): N/A Locked Rotor Amps: N/A  NOTES:  1. Maximum (HACR) Circuit Breaker sizing is for installations in the United States only.  REFRIGERANT (2)  Type: Throwawant  Factory Charge Circuit #1 3 1/2" Circuit #2 N/A  Recommended  NOTES:  1. Maximum (HACR) Circuit Breaker sizing is for installations in the United States only.  2. Refrigerant charge is an approximate value. For a more precise value see unit nameplate and service instructions.
POWER EXHAUST ACCESSORY  FILTERS  FILTERS  REFRIGERANT  Type  Type: Throwaward  Type  Factory Charge  Circuit #1 3 1/2"  Circuit #2 N/A   NOTES:  1. Maximum (HACR) Circuit Breaker sizing is for installations in the United States only.  2. Refrigerant charge is an approximate value. For a more precise value, see unit nameplate and service instructions.
POWER EXHAUST ACCESSORY  (Field Installed Power Exhaust)  Phase: N/A Horsepower: N/A Horsepower: N/A Motor Speed (RPM): N/A Locked Rotor Amps: N/A  NOTES:  1. Maximum (HACR) Circuit Breaker sizing is for installations in the United States only.  2. Refrigerant Carry  FILTERS  REFRIGERANT  (2)  Type  Factory Charge Circuit #1 3 1/2" Circuit #2 N/A  N/A  NOTES:  1. Maximum (HACR) Circuit Breaker sizing is for installations in the United States only.  2. Refrigerant charge is an approximate value. For a more precise value see unit nameplate and service instructions.
(Field Installed Power Exhaust)  Phase: N/A Horsepower: N/A Horsepower: N/A Motor Speed (RPM): N/A Locked Rotor Amps: N/A  NOTES:  1. Maximum (HACR) Circuit Breaker sizing is for installations in the United States only.  2. Refrigerant charge is an approximate value. For a more precise value, see unit nameplate and service instructions.
Phase: N/A Horsepower: N/A Motor Speed (RPM): N/A Full Load Amps: N/A  NOTES:  1. Maximum (HACR) Circuit Breaker sizing is for installations in the United States only.  2. Refrigerant charge is an approximate value. For a more precise value, see unit nameplate and service instructions.
Phase: N/A Horsepower: N/A Horsepower: N/A Horsepower: N/A Motor Speed (RPM): N/A Full Load Amps: N/A Locked Rotor Amps: N/A  NOTES:  1. Maximum (HACR) Circuit Breaker sizing is for installations in the United States only.  2. Refrigerant charge is an approximate value. For a more precise value see unit nameplate and service instructions.
Horsepower: N/A Furnished: Yes Through The Circuit #1 3 1/2"  N/A Notor Speed (RPM): N/A Number 2 Circuit #1 3 1/2"  Locked Rotor Amps: N/A  NOTES:  1. Maximum (HACR) Circuit Breaker sizing is for installations in the Unite States only.  2. Refrigerant charge is an approximate value. For a more precise value see unit nameplate and service instructions.
Motor Speed (RPM): N/A   Number 2 20 35"x2"   Circuit #1 3 1/2   Locked Rotor Amps: N/A   NA   Recommended 20 35"x2"   Circuit #2 N/A    NOTES:  1. Maximum (HACR) Circuit Breaker sizing is for installations in the United States only.  2. Refrigerant charge is an approximate value. For a more precise value see unit nameplate and service instructions.
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3. Value does not include Power Exhaust Accessory. 4. Value includes oversized motor. 5. Value does not include Power Exhaust Accessory. 6. EER is rated at AHRI conditions and in accordance with the test procedures. 7. Installation of this power exhaust kit will affect unit level MCA and could affect MOP sizing having a direct impact on existing field wiring and unit protection devices. The change in MCAMOP is the sole responsibility of the beld installing party. Trane will not issue new nameplates as a result of this power exhaust accessory installation. FLA of the power exhaust kit option has to eaded to the MCA of the unit for building supply conductor sizing determination.  Supply conductor sizing determination.

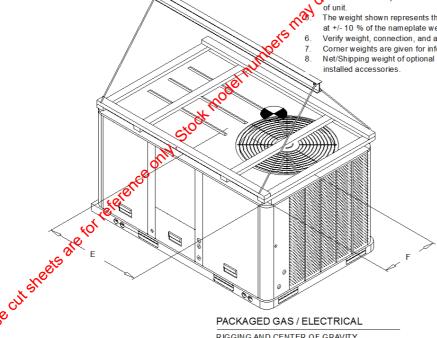
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(B)

#### INSTALLED ACCESSORIES NET WEIGHT DATA



- Actual weight are listed on the unit nameplate. Refer to unit nameplate and installation guide for weights before scheduling transportation and installation
  - The weight shown represents the typical unit operating weight for the configuration selected. Estimated at +/- 10 % of the nameplate weight.
- Verify weight, connection, and all dimension with installer documents before installation
- - Corner weights are given for information only. Net/Shipping weight of optional accessories should be added to unit weight when ordering factory or field



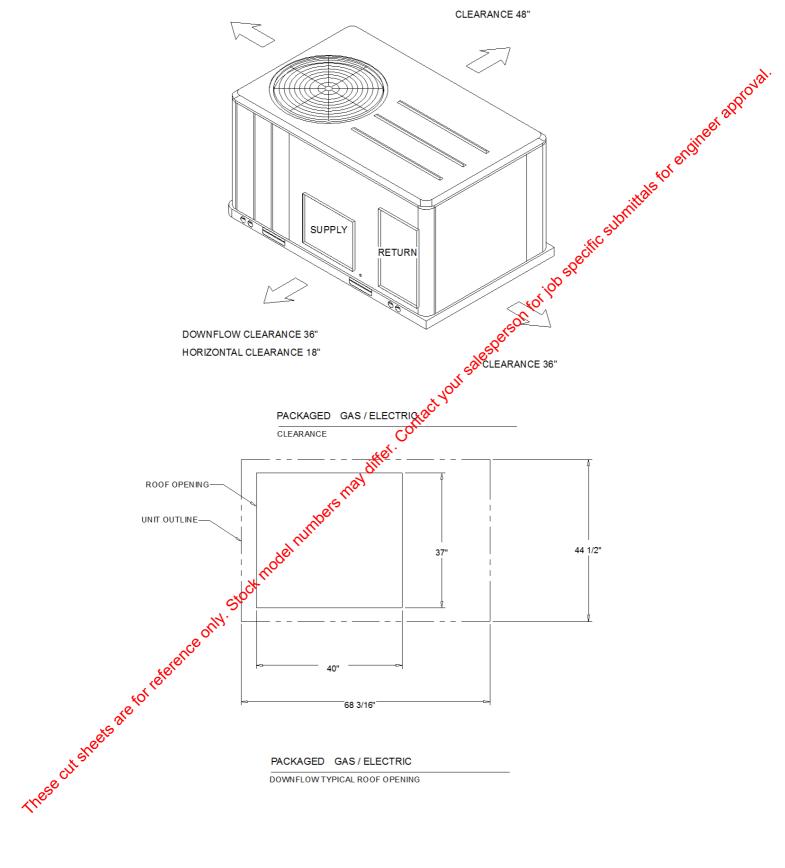
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CLEARANCE FROM TOP OF UNIT 72"

#### **CLEARANCE 36"**

American Standard.



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#### General

The units shall be convertible airflow. The operating range shall be between 115°F and 0°F in cooling as standard from the factory for units with microprocessor controls. Operating range for units with electromechanical controls shall be between 115°F and 40°F. Cooling performance shall be rated in accordance with ARI testing procedures. All units shall be factory assembled, internally wired, fully charged with R-410A, and 100 percent run tested to check cooling operation, fan and blower rotation, and control sequence before leaving the factory. Wiring internal to the unit shall be colored and numbered for simplified identification. Units shall be cULus listed and labeled, classified in accordance for Central Cooling Air Conditioners.

# Casing

Unit casing shall be constructed of zinc coated, heavy gauge, galvanized steel. Exterior surfaces shall be cleaned, phosphatized, and finished with a weather-resistant baked enamel finish. Unit's surface shall be tested 672 hours in a salt spray test in compliance with ASTM B117. Cabinet construction shall allow for all maintenance on one side of the unit. Service panels shall have lifting handles and be removed and reinstalled by removing two fasteners while providing a water and air tight seal. All exposed vertical panels and top covers in the indoor air section shall be insulated with a cleanable foil-faced, fire-retardant permanent, odorless glass fiber material. The base of the unit shall be insulated with 1/8", foil-faced, closed-cell insulation. All insulation edges shall be either captured or sealed. The unit's base pan shall have no penetrations within the perimeter of the curb other than the raised 1 1/8" high downflow supply/return openings to provide an added water integrity of ecaution, if the condensate drain backs up. The base of the unit shall have provisions for forklift and crane lifting, with forklift capabilities on three sides of the unit.

# **Unit Top**

The top cover shall be one piece construction or, where seams exist, it shall be double-hemmed and gasket-sealed. The ribbed top adds extra strength and enhances water removal from unit top.

#### **Filters**

Throwaway filters shall be standard on all units. Optional 2-inch MERV 8 and MERV 13 filters shall also be available.

### Compressors

All units shall have direct-drive, hermetic, scroll type compressors with centrifugal type oil pumps. Motor shall be suction gas-cooled and shall have a voltage utilization range of plus or minus 10 percent of unit nameplate voltage. Internal overloads shall be provided with the scroll compressors.

Dual compressors are outstanding for humidity control, light load cooling conditions and system backup applications. Dual compressors are available on 7½-10 ton models and allow for efficient cooling utilizing 3-stages of compressor operation for all high efficiency models.

# **Indoor Fan**

The following units shall be equipped with a direct drive plenum fan design (T/YSC120F,T/YHC074F, T/YHC092F,T/YHC102F, 120F). Plenum fan design shall include a backward-curved fan wheel along with an external roter direct drive variable speed indoor motor. All plenum fan designs will have a variable speed adjustment potentiometer located in the control box.

3 to 5 ton units (high efficiency 3-phase with optional motor) are belt driven, FC centrifugal fans with adjustable motor sheaves. 3 to 5 ton units (standard and high efficiency 3-phase) have multispeed, direct drive motors. All 6 to 8½ ton units (standard efficiency) shall have belt drive motors with an adjustable idler-arm assembly for quick-adjustment to fan belts and motor sheaves. All motors shall be thermally protected. All 10 tons, 6 ton (074), 7½ to 8½ (high efficiency) units have variable speed direct drive motors. All indoor fan motors meet the U.S. Energy Policy Act of 1992 (EPACT).

#### **Outdoor Fans**

The outdoor fan shall be direct-drive, statically and dynamically balanced, draw-through in the vertical discharge position. The fan motor shall be permanently lubricated and shall have built-in thermal overload protection.

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# **Evaporator and Condenser Coils**

Internally finned, 5/16" copper tubes mechanically bonded to a configured aluminum plate fin shall be standard. Evaporator coils are standard for all 3 to 10 ton standard efficiency models. Microchannel condenser coils are standard for all 3 to 10 ton standard efficiency models and 4, 5, 6, 7.5, 8.5 ton high efficiency models. The microchannel type condenser coil is not offered on the 4 and 5 ton dehumidification model. Due to flat streamlined tubes with small ports, and metallurgical tube-to-fin bond, microchannel coil has better heat transfer performance. Microchannel condenser coil can reduce system refrigerant charge by up to 50% because of smaller internal volume, which leads to better compressor reliability. Compact all-aluminum microchannel coils also help to reduce the unit weight. These all aluminum coils are recyclable. Galvanic corrosion is also minimized due to all aluminum construction. Strong aluminum brazed structure provides better fin protection. In addition, flat streamlined tubes also make microchannel coils more dust resistant and easier to clean. Coils shall be leak tested at the factory to ensure the pressure integrity. The evaporator coil and condenser coil shall be leak tested to 600 psig. The assembled unit shall be leak tested to 465 psig, The condenser coil shall have a patent pending 1+1+1 hybrid coil designed with slight gaps for ease of cleaning. A plastic, dual-sloped, removable and reversible condensate drain pan with frough-the-base condensate drain is standard.

#### Controls

Unit shall be completely factory-wired with necessary controls and contactor ressure lugs or terminal block for power wiring. Unit shall provide an external location for mounting a fused disconnect device. A choice of microprocessor or electromechanical controls shall be available. Microprocessor controls provide for all 24V control functions. The resident control algorithms shall make all heating, cooling, and/or ventilating decisions in response to electronic signals from sensors measuring indoor and outdoor temperatures. The control algorithm maintains accurate temperature control, minimizes drift from set point, and provides better building comfort. A centralized microprocessor shall provide antishort cycle timing and time delay between compressors to provide a higher level of machine protection. 24-volt electromechanical control circuit shall include control transformer and contactor

# **High Pressure Control**

All units include High Pressure Cutout as standard.

# **Phase monitor**

Phase monitor shall provide 100% protection or motors and compressors against problems caused by phase loss, phase imbalance, and phase reversal. Phase monitor is equipped with an LED that provides an ON or FAULT indicator. There are no field adjustments. The module will automatically reset from a fault condition.

#### Refrigerant Circuits

Each refrigerant circuit offer thermal expansion valve as standard. Service pressure ports, and refrigerant line filter driers are factory-installed as standard. An area shall be provided for replacement suction line driers.

# Gas Heating Section

The heating section shall have a progressive tubular heat exchanger design using stainless steel burners

and corrosion resistant steel throughout. An induced draft combustion blower shall be used to pull the combustion products through the firing tubes. The heater shall use a direct spark ignition (DSI) system. On initial call for heat, the combustion blower shall purge the heat exchanger for 20 seconds before ignition after three unsuccessful ignition attempts, the entire heating system shall be locked out until manually reset at the thermostat/zone sensor. Units shall be suitable for use with natural gas or propriate (field-installed kit) and also comply with the California requirement for low NOx emissions (Sas/Electric Only).

# \*\*\*ATTENTION\*\*\*

For installation in SCAQMD only: This furnace does not meet the SCAQMD Rule 1111 14 ng/J NOx emission limit, and thus is subject to a mitigation fee of up to \$450. This furnace is not eligible for the Clean Air Furnace Rebate Program: www.CleanAirFurnaceRebate.com.

Sequence of Operation (if applied in a SINGLE-ZONE CONSTANT-VOLUME SYSTEM or a CHANGEOVER BYPASS SYSTEM)

# B. SINGLE-ZONE CONSTANT-VOLUME SYSTEM

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# 1. OCCUPIED HEAT/COOL:

The RTU shall operate the supply fan continuously and modulate (or cycle) compressors, modulate (or stage) heat, and/or enable airside economizing to maintain zone temperature at setpoint. The OA damper shall open to bring in the required amount of ventilation.

### 2. MORNING WARM-UP/PRE-COOL:

The RTU shall operate the supply fan and modulate (or cycle) compressors or modulate (or stage)

1. OCCUPIED HEAT/COOL:
Each VAV terminal shall use pressure-independent control, with airflow measurement, to vary primary airflow to maintain zone temperature at its occupied setpoint. The RTU shall modulate the bypass damper to maintain duct static pressure at setpoint and modulate (or cycle) compressors stage) heat, and/or enable airside economizing based on current zone or OA damper shall open to bring in the required amount of

Each VAV terminal unit shall vary primary airflow to raise/lower zone temperature to its occupied setpoint. The RTU shall modulate the bypass damper to maintain duct static pressure at setpoint and modulate (or cycle) compressors or modulate (or stage) heat bases on current zone cooling/heating demands. The OA damper shall remain closed, unless economizing.

# 3. COOLING/HEATING CHANGEOVER LOGIC:

The System Controller shall determine the overall system cooling/heating mode based on "voting" from each zone. When the majority of zones require cooling, the RTU shall operate in cooling mode in he, a property in her start made numbers may differ these only start made numbers may differ the property of the and any zone that requires heating shall reduce primary airflow to minimum. When the majority of zones require heating, the RTU shall operate in heating mode and any zone that requires cooling shall

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