Trane Voyager Cooling Packaged Rooftop

Unit Overview - TSH240G3RNC**01A1A10000000000000000000000000000000											
Application Unit Size Supply Fan External Dimensions (in.) Operating Weight EER IEER/SEER Eleva								Elevation			
DX cooling	20 Ton	Airflow	External Static Pressure	Height	Width	Length	Minimum	Maximum	10.0 EER	11.60	
o o		7000 cfm	1.800 in H2O	4.68 ft	7.02 ft	10.14 ft	1902.0 lb	2984.0 lb			

Unit Features

SupplyFan/Drive/ MotorType Oversize motor
Panels/Filters Hinged panels/std filters

Unit Electrical Voltage/phase/hertz 208-230/60/3 MCA 126.00 A MOP 150.00 A MCA (230 w/ Elec Heat) 140.00 A MOP (230 w/ Elec Heat) 150.00 A



Controls

Unit Controls Reliatel

Cooling Section							
Entering Dry Bulb 80.00 F	Capacity						
Entering Wet Bulb 67.00 F	Gross Total 250.91 MBh						
Ambient Temp 95.00 F	Gross Sensible 185.45 MBh						
Leaving Coil Dry Bulb 55.47 F	Net Total 230.34 MBh						
Leaving Coil Wet Bulb 55.22 F	Net Sensible 164.88 MBh						
Leaving Unit Dry Bulb 58.64 F	Fan Motor Heat 20.57 MBh						
Leaving Unit Wet Bulb 56.48 F	Refrig Charge-circuit 1 12.4 lb						
Refrigeration System Options	Refrig Charge-circuit 2 7.2 lb						
Leaving Dew Point 55.05 F							

Heating Section

Heat Type Electric
Heating Stages 2
Output Heating Capacity 122.94 MBh
Heating EAT 70.00 F
Heating LAT 86.17 F
Heating Temp Rise 16.17 F

Fan Section							
Indoor F	an Data	Outdoor	Fan Data				
Туре	FC Centrifugal	Туре	Propeller				
Drive Type	Belt	Fan Quantity	2				
Indoor Fan F	Performance	Drive Type	Direct				
Airflow	7000 cfm	Outdoor Fan	Performance				
Design ESP	1.800 in H2O	Outdoor Motor Power	1.73 kW				
Component SP	0.000 in H2O	Condenser Fan FLA	4.80 A				
Total SP	1.875 in H2O	Exhaust Fan	Performance				
Supply Motor Horsepower	7.500 hp	Exhaust Fan FLA	24.20 A				
Indoor Motor Operating Power	6.53 bhp						
Indoor Motor Power	4.86 kW						

Compressor Section

Power 19.70 kW

Circuit 1 RLA 44.16 A

Circuit 2 RLA 24.96 A

Indoor RPM 910 rpm

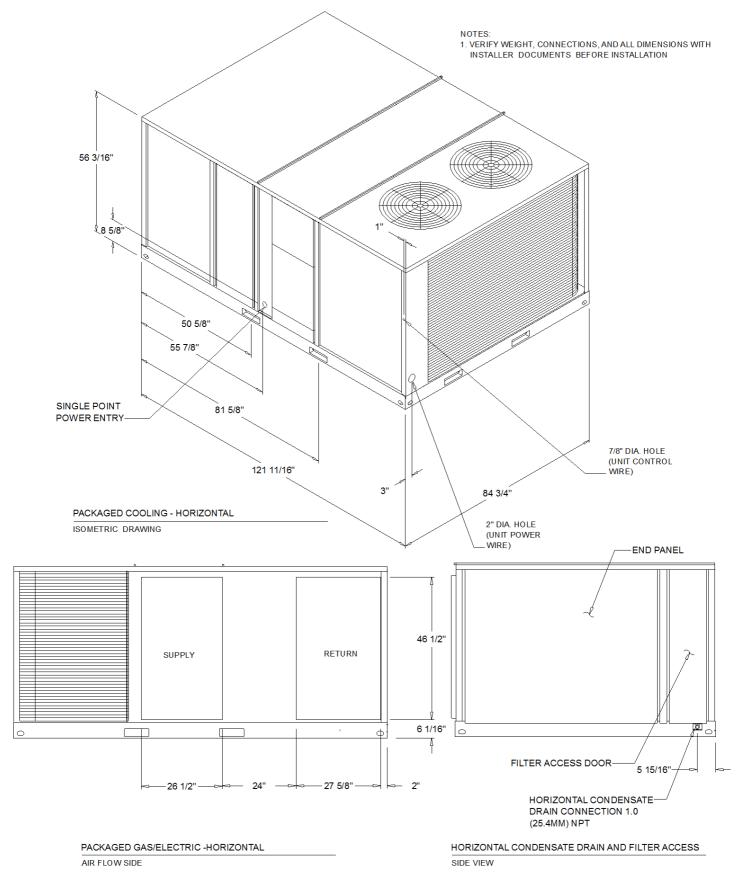
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Job Name: UR Las Vegas 20 Tons Prepared By: Unit Tag: 20 ton, (9) Quantity: 10

Acoustics								
Sound Path	63 Hz	125 Hz	250 Hz	500 Hz	1 kHz	2 kHz	4 kHz	8 kHz
Ducted Discharge	94 dB	87 dB	78 dB	78 dB	77 dB	77 dB	76 dB	70 dB
Ducted Inlet	92 dB	83 dB	79 dB	73 dB	68 dB	69 dB	68 dB	63 dB
Outdoor Noise	105 dB	94 dB	96 dB	93 dB	90 dB	85 dB	82 dB	77 dB

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ELECTRICAL / GENERAL DATA

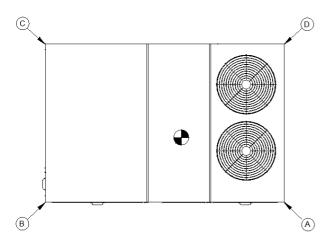
GENERAL Model (Tons): Unit Operating Voltage: Unit Primary Voltage: Unit Secondary Voltage: Unit Hertz: Unit Phase: EER: (6)	, and the second	TSH240G (20.0) 187-253 208 230 60 3	Standard Motor (1) (3) (4) Minimum Circuit Ampacity: Maximum Fuse Size: Maximum (HACR) Circuit I Oversized Motor (1) (3) (5) Minimum Circuit Ampacity: Maximum Fuse Size: Maximum (HACR) Circuit I	: Breaker:)	107.0/107.0 150.0/150.0 150.0/150.0 150.0/150.0 115.0/115.0 150.0/150.0		Field Installed Ove Minimum Circuit A Maximum Fuse Si Maximum (HACR)	mpacity: ze:	(1) (3) (5) er:
HEATER Standard Motor with H Heater kW Rating: Stage: Minimum Circuit Ampa Maximum Fuse Size: Maximum (HACR) Circ	city:	27.0/36.0 2 116.0/131.0 150.0/150.0 150.0/150.0	Oversized Motor ^{(1) (5)} Minimum Circuit Ampacity Maximum Fuse Size: Maximum (HACR) Circuit		126.0/140.0 150.0/150.0 150.0/150.0		Field Installed Ove Minimum Circuit Ar Maximum Fuse Siz Maximum (HACR)	mpacity: ze:	(1) (5) r:
COMPRESSOR Number: Horsepower: Phase: Rated Load Amps: Locked Rotor Amps:	Circuit(s) 2 11.7/6.9 3 44.16/24.96 315.0/164.0			Number Horser Motor Phase Full Lo	power: speed (RPM):	2 1.00 1,125 3 4.8 20.0	;		
INDOOR MOTOR Standard Motor (3) (4) Number: Horsepower: Motor Speed (RPM): Phase: Full Load Amps: Locked Rotor Amps:	1 5.00 3,450 3 16.7 109.8		Motor Speed (RPM): 3 Phase: 3 Full Load Amps: 2	.50 ,470			Field Installed Over Number: Horsepower: Motor Speed (RPM Phase: Full Load Amps: Locked Rotor Amp	Л):	(3) (5)
POWER EXHAUST (Field Installed Power Horsepower: Motor Speed (RPM): Phase: Full Load Amps: Locked Rotor Amps:		RY ⁽⁶⁾	Furnished: Y Number: 8	hrowaway es 0"x25"x2"			REFRIGERANT Type: Factory Charge Circuit #1 / 2:	(2) Circuit #1 / 2 R410 11.7 lb/6.8 lb)

NOTES:

- Maximum (HACR) Circuit Breaker sizing is for installations in the United States only.
 Refrigerant charge is an approximate value. For a more precise value, see unit nameplate and service instructions.
 Value include Standard Motor.
- 4. Value include Oversized Motor
- 5. EER is rated at AHRI conditions and in accordance with DOE test procedures.
- 6. 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 MCA/MOP is the sole responsibility of the field installing party. Trane will not issue new nameplates as a result of this power exhaust accessory installation. FLA of the power exhaust kit option must be added to the MCA of the unit for building supply conductor sizing determination.

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Base Unit and Corner Weights Only

Base unit	weights		Corner \	Center of Gravity			
SHIPPING NET		A	В	C	D	E	F
2334.0 lb	1902.0 lb	615.0 lb	498.0 lb	375.0 lb	433.0 lb	55"	35"

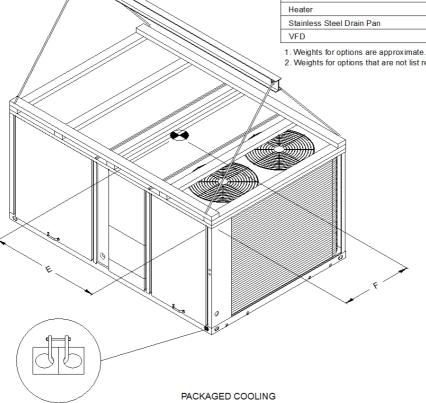
- 1. All weights are approximate.
- 2. The actual weight are listed on the unit nameplate.
- 3. Refer to unit nameplate and installation guide for weights before scheduling transportation
- and installation of unit.

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

Installed Options Net Weight Data

Accessory	Weight
Economizer, Manual and Motorized Outside Air Damper	
Power Exhaust	
Roof Curb	
Oversized Motor	5.0 lb
Hail Guard	43.0 lb
Hinged Access Doors	27.0 lb
Power Conv. Outlet	
Through the Base Electrical	23.0 lb
Circuit Breaker	
Disconnect	10.0 lb
Smoke Detector	
Novar	
Zone Sensor	
High/Low Static Drive Kit	
High Efficiency Motor	
Heater	
Stainless Steel Drain Pan	
VFD	

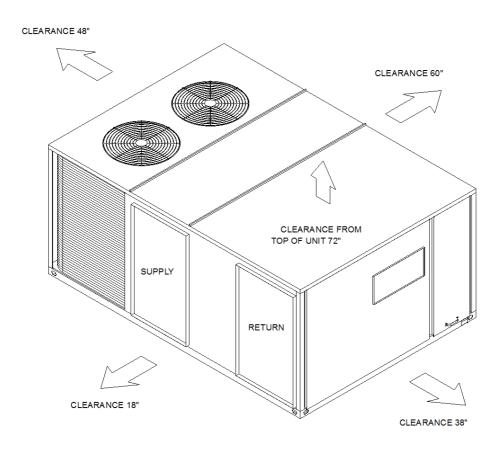
- 2. Weights for options that are not list refer to Installation guide.



RIGGING AND CENTER OF GRAVITY

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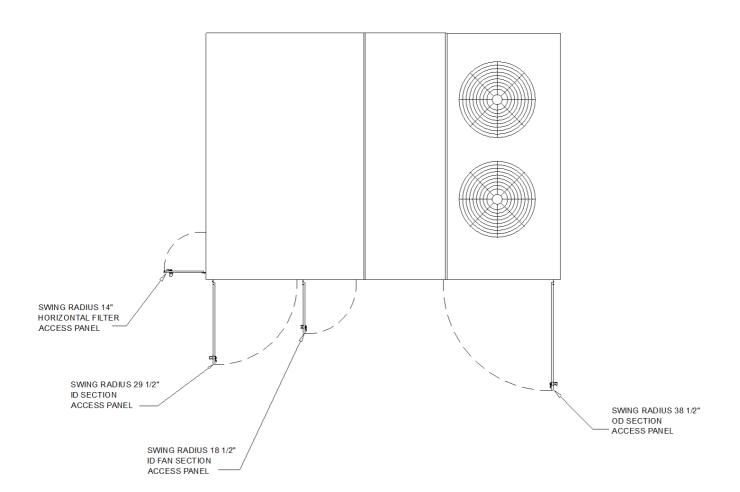




HORIZONTAL ISOMETRIC-PACKAGED COOLING WITH ELECTRIC CLEARANCE

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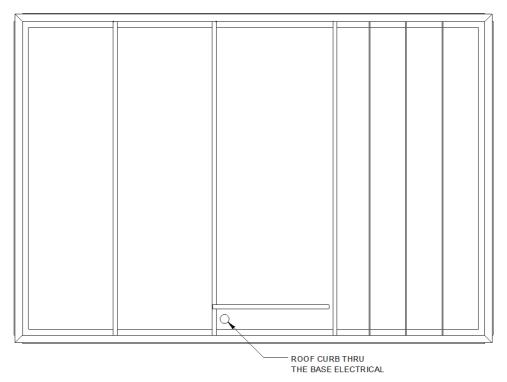


HINGGING ACCESS

ACCESSORY DRAWING

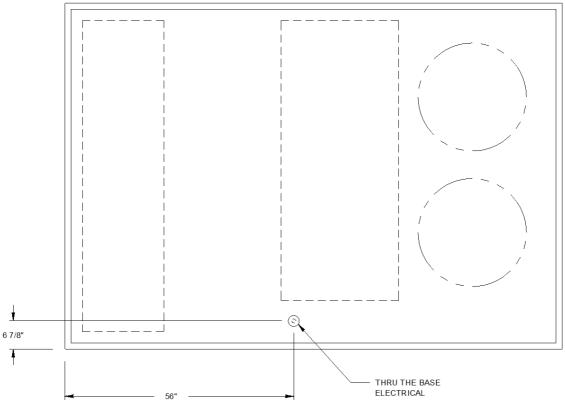
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ROOF CURB THRU THE BASE ELECTRICAL

ACCESSORY DRAWING



THRU THE UNIT BASE ELECTRICAL

ACCESSORY DRAWING

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