

Submittal Data: TVRF-SHC120K/220V

120,000 BTU/h VRF Condenser Heat Recovery

Job Name	Location	Date
Purchaser	Engineer	
Submitted To	For <input type="checkbox"/> Reference <input type="checkbox"/> Approval <input type="checkbox"/> Construction	
Unit Designation	Schedule No.	

GENERAL FEATURES

- Sensorless DC Inverter Fan Motor
- Compact Design
- Non-Polar CAN Technology for Improved Communication Efficiency
- Increased Energy Savings through Higher Efficiency
- Fast Start-up in Heating Mode
- Patented 2 Stage Oil Separation Technology & Improved Oil Return Control Technology
- Smaller Impact on Power Grid
- Allows for Flexible Installation



Unit Data

Performance

US Ton	10
Cooling	
Rated Capacity	114,000 BTU/h 33.4 kW
Heating	
Rated Capacity	129,000 BTU/h 37.8 kW
Capacity Modulation Range	11 ~ 100 %
Operating Range	
Cooling (Min-Max)	23~122°F (-5~50°C)
Heating (Min-Max)	-4~75°F (-20~24°C)

Electrical & Power Supply

Normal Operational Voltage	208/230 V, 3 Phase, 60 Hz
MCA	75 A
MOCP/Breaker Size	100 A

Fan	Type x Qty	Axial flow x 2
	Output Power	750+750 W
Airflow		8240 CFM 14000 m ³ /h
ESP		82 Pa
Compressor	Type x Qty	Inverter Scroll
Sound Pressure Level		63 dB(A)
Indoor Units		
	Max Qty	20
	Total Capacity	50 - 135 %
Dimensions & Weights		
	Unit Dimensions (WxHxD)	52.75x63.25x30.13-in
	Weight (Net/Gross)	831 LBS

Refrigerant and Piping

Refrigerant Type	R410A
High Pressure Gas Pipe Size (OD)	3/4-in
Low Pressure Gas Pipe Size (OD)	1-1/8-in
Liquid Pipe Size (OD)	1/2-in
Connection Method	Flared
MAX Refrigerant Pipe Length	541-ft
MIN Refrigerant Pipe Length	10-ft



Branch Circuit Controller



TVRF-SHCBU1T1
1 to 1



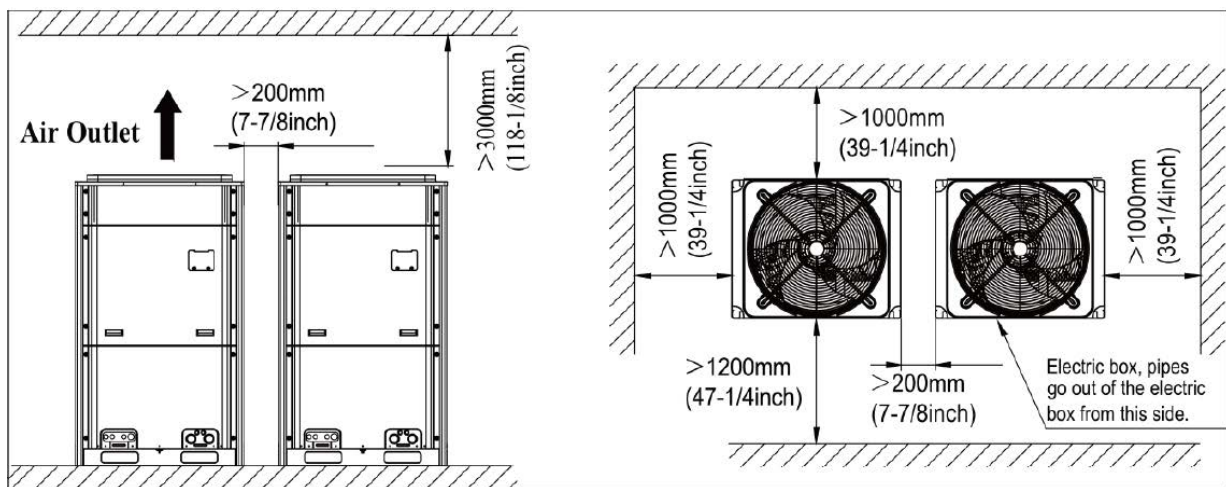
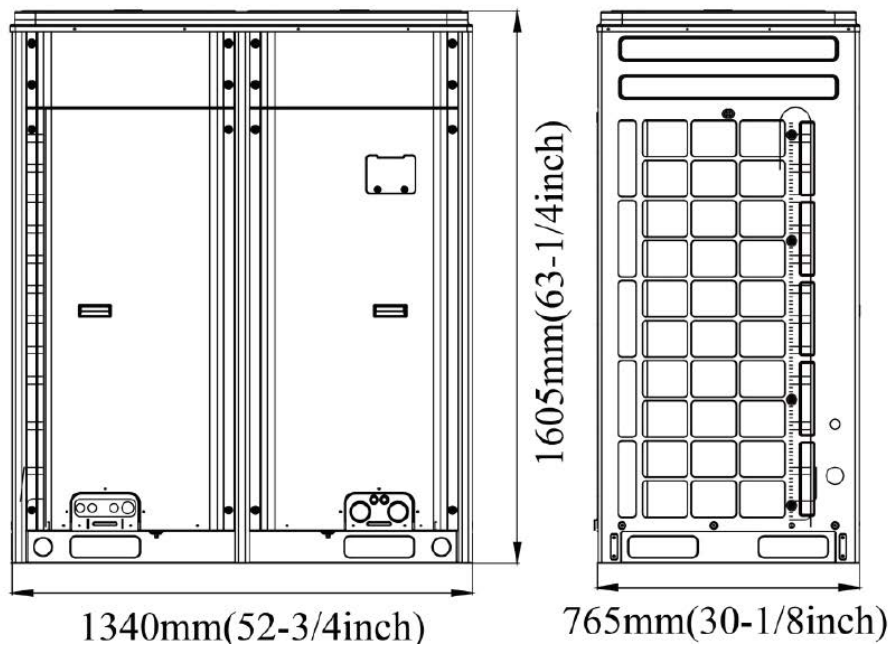
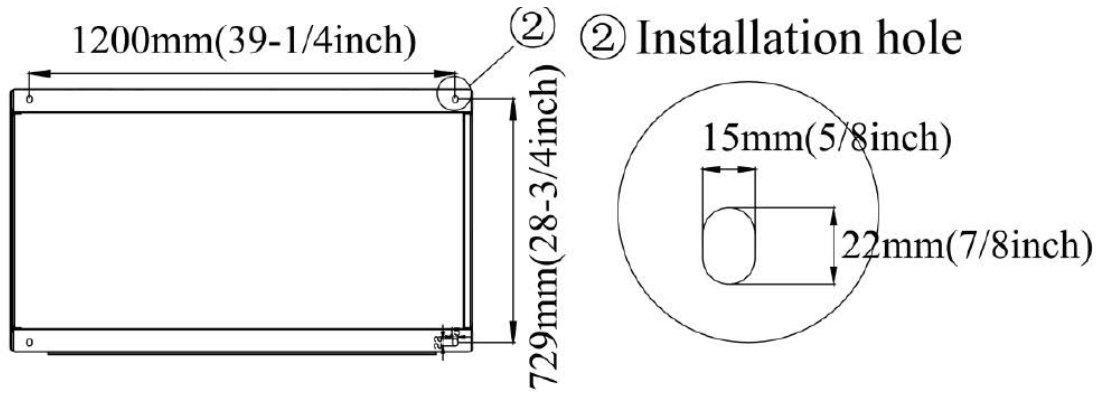
TVRF-SHCBU1T4
1 to 4



TVRF-SHCBU1T8
1 to 8

		WVRF-SHCBU1T1	WVRF-SHCBU1T4	WVRF-SHCBU1T8
Max IDU Branches	unit	1	4	8
Nbr. of connectable IDU for each branch	unit	8	8	8
Total connectable IDU	unit	8	32	64
Max. capacity of each branch	Btu	48,000	48,000	48,000
Max capacity of connectable IDU	Btu	48,000	153,000	222,000
Power Supply	V/Ph/Hz	208-230/1/60	208-230/1/60	208-230/1/60
Power Consumption	W	8	44	80
Maximum drive IDU	unit	1	4	8

DIMENSIONAL SPECIFICATIONS



Notes:

1. Recommended Interconnecting Cable Type Stranded Bare Copper Conductors THHN 600V Wire
2. Power wiring cable size must comply with applicable national and local codes.
3. Test conditions are based on AHRI 210/240.

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