



Technical Data Sheet	
Unit Tag	3.5 Ton LH / RH
	*** For Reference Only – At Standard Conditions

Unit Overview

Model Number	Voltage V/Hz/Phase	Airflow CFM	Fluid Flow GPM	Cooling Capacity Btu/hr	Cooling Efficiency EER @ AHRI	Heating Capacity Btu/hr	Heating Efficiency COP @ AHRI
WGCV042	208-230/60/1	1507	10.50	37442	14.5	47155	4.8

Unit

Model Number:	WGCV042		
Unit Type:	Compact Vertical Single Stage		
Approval:	ETL, CETL, AHRI		
Configuration	Refrigerant Type	Refrigerant Weight	Loop Temperature Range
Vertical	R-410A	52.0 oz	Water Loop (Standard Range)

Unit Performance

Air & Water Flow				
Airflow	Total External Static Pressure	Fluid Flow	Fluid Type	Altitude
1507 CFM	0.30 inH ₂ O	10.50 gpm / 3.00 gpm/ton	Water	0 ft

Cooling Performance										
Fluid Temperature		Air Temperature				Capacity		Heat of Rejection Btu/hr	EER @ AHRI	Fluid Pressure Drop ft H ₂ O
Entering °F	Leaving °F	Entering		Leaving		Total Btu/hr	Sensible Btu/hr			
		Dry Bulb °F	Wet Bulb °F	Dry Bulb °F	Wet Bulb °F					
90.0	99.2	75.0	63.0	57.4	54.3	37442	28814	48267	14.5	15.73

Heating Performance							
Fluid Temperature		Air Temperature		Capacity Total Btu/hr	Heat of Absorption Btu/hr	COP @ AHRI	Fluid Pressure Drop ft H ₂ O
Entering °F	Leaving °F	Entering	Leaving				
		Dry Bulb °F	Dry Bulb °F				
70.0	62.9	70.0	98.8	47155	37133	4.8	16.29

*System WPD is calculated without the autoflow valve as the CV of an autoflow valve varies dependent on the system WPD. As long as the WPD is >3 psid, the autoflow valve will provide the selected GPM flowrate.

Electrical

Unit Voltage	Minimum Voltage	Total Unit Full Load Current	Total Unit MCA
208-230/60/1	197.0 v	22.00 A	26.50 A
Compressor RLA	Compressor LRA	Motor FLA	Maximum Recommended Fuse Size / HACR Breaker Size
17.9 A	112.0 A	4.10 A	40 A

Physical

Unit						
Depth	Height	Width	Weight		Connection	
			Shipping	Operating	Water	Condensate
26.00 in	44.00 in	21.50 in	233 lb	205 lb	0.75 in	0.75 in
Fan						
Motor Type				Motor Horsepower		
ECM Constant Torque				0.50 hp		

Unit Options

Controls

Unit Control:	Microtech III
Control Transformer:	Standard 50 VA Transformer
Thermostat / Sensor Control:	Thermostat Control

Unit Airflow Configuration

Return Air Location:	Left Hand / Right Hand
Discharge Air Location:	Top

Factory Mounted Options

Coaxial Heat Exchanger Options

Heat Exchanger:	Copper Inner Tube / Steel Outer Tube
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Construction Options

Drain Pan Material

Primary:	Stainless Steel
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Filters

Filter Rack Type:	1-inch Rail
Filter Type:	Standard 1 inch
(Quantity) Filter Dimensions:	(1) 23 in x 23 in x 1 in

Insulation

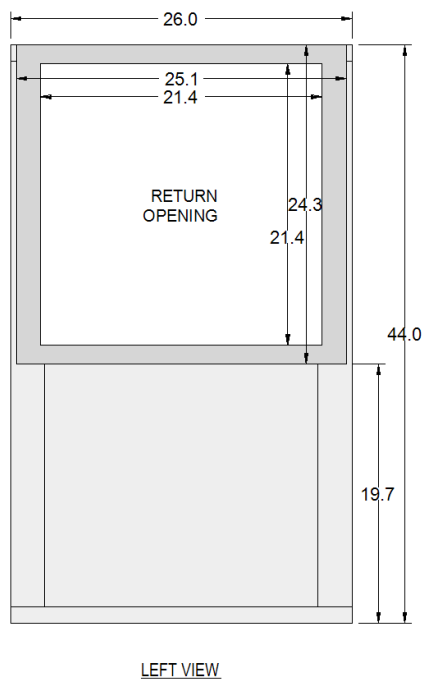
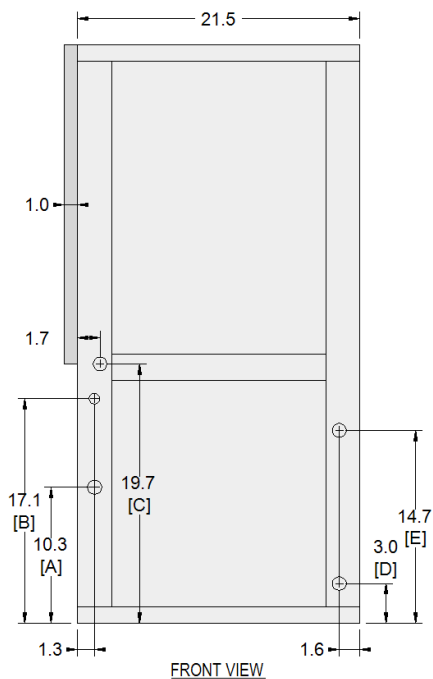
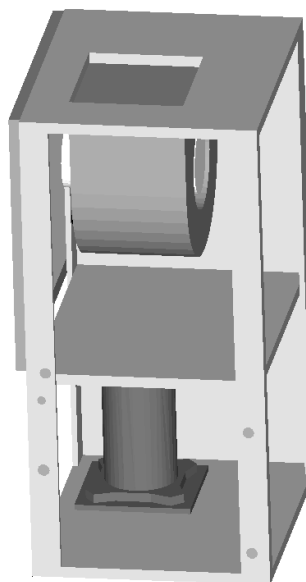
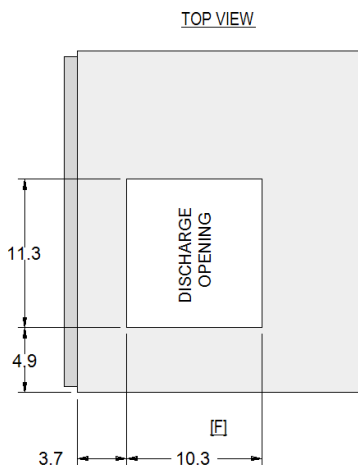
Compressor Compartment:	1/2 inch Fiberglass, Skin-faced
Air Compartment:	1/2 inch Fiberglass, Skin-faced

AHRI Certification




All equipment is rated and certified in accordance with AHRI / ISO 13256-1 and tested, investigated, and determined to comply with the requirements of the standards for Heating and Cooling Equipment UL-1995 for the United States and CAN/CSA-C22.2 NO.236 for Canada.

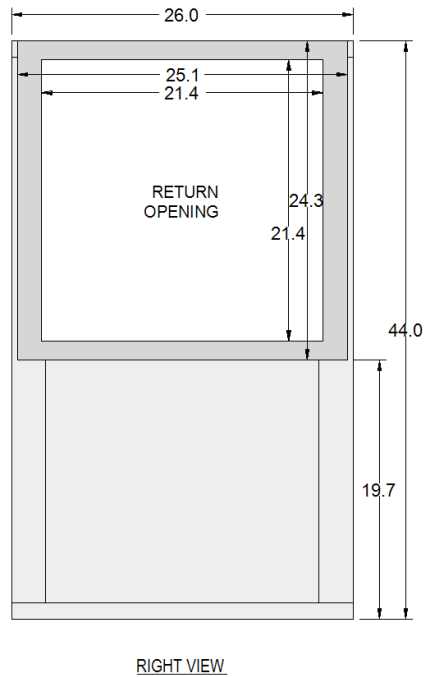
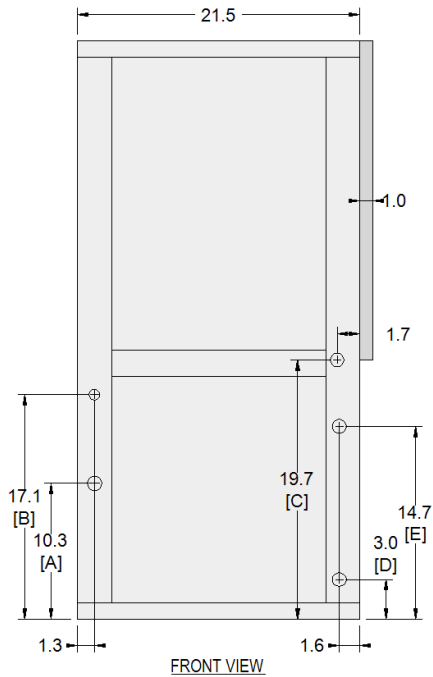
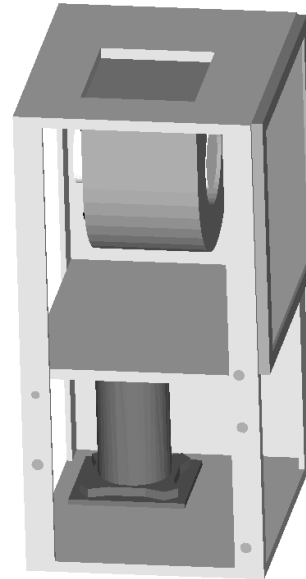
3/4 VIEW - LEFT HAND RETURN UNIT




NOTES		
[A] - High Volt Pwr Entry 1.1 DIA	[B] - Low Volt Pwr Entry 0.8 DIA	[C] - Condensate Drain 3/4" FPT
[D] - Supply Water 3/4" FPT	[E] - Return Water 3/4" FPT	[F] - Unit Front Service Clearance 24

Product Drawing		Unit Tag: 3.5 Ton LH			 13600 Industrial Park Blvd. Minneapolis, MN 55441 www.DaikinApplied.com Software Version: 07.20		
Product:		Project Name:					
Model: WGCV042					Scale: NTS		
Sales Engineer:		Dec. 10, 2018	Ver/Rev:	Sheet 1 of 1	Tolerance: +/-0.25" Dwg Units: (in)		
No change to this drawing may be made unless approved in writing by Daikin Applied. Purchaser must determine that the equipment is fit and sufficient for the job specifications.							

3/4 VIEW - RIGHT HAND RETURN UNIT



NOTES		
[A] - High Volt Pwr Entry 1.1 DIA	[B] - Low Volt Pwr Entry 0.8 DIA	[C] - Condensate Drain 3/4" FPT
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