

SMARTSOURCE® Heat Pump



Job Information		Technical Data Sheet
Job Name	WSHP R32	
Date	11/12/2024	
Submitted By	GENERAFRIO S.A.C.	
Software Version	13.00	
Unit Tag	WSCH048	



Unit Overview									
Model Number	Voltage V/Hz/Phase	Airflow CFM	Fluid Flow gpm	Cooling Capacity Btu/hr	Cooling Efficiency EER@AHRI	Cooling Efficiency EER@Design	Heating Capacity Btu/hr	Heating Efficiency COP@AHRI	Heating Efficiency COP@Design
WSCH048	208-230/60/1	1602	12.00	48917	14.6	13.5	64164	4.9	4.8
Unit									
Model Number:		WSCH048							
Unit Type:		SmartSource Compact - Single Stage							
Approval:		ETL, CETL, AHRI							
Configuration		Refrigerant Type		Refrigerant Weight		Loop Temperature Range			
Horizontal		R-32		44.0 oz		Water Loop (Standard Range)			

Unit Performance										
Air & Fluid Flow										
Airflow		Total External Static Pressure		Fluid Flow		Fluid Type		Altitude		
1602 CFM		0.53 inH ₂ O		12.00 gpm		Water		0 ft		
Cooling Performance										
Fluid Temperature		Air Temperature				Capacity		Heat of Rejection Btu/hr	EER @ design	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	100.2	80.0	70.0	62.8	60.6	48917	29971	61291	13.5	10.24
Heating Performance										
Fluid Temperature		Air Temperature				Capacity	Heat of Absorption Btu/hr	COP @ design	Fluid Pressure Drop ft H ₂ O	
Entering °F	Leaving °F	Entering		Leaving		Total Btu/hr				
		Dry Bulb °F		Dry Bulb °F						
70.0	61.6	70.0		106.9		64164	50667	4.8	10.61	

*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 V	23.2 A	28.2 A
Compressor RLA	Compressor LRA	Motor FLA	Maximum Recommended Fuse Size / HACR Breaker Size
19.9 A	129.0 A	3.3 A	45 A

*Short-Circuit Current = 5 kA rms symmetrical, 600 V maximum

Physical						
Unit						
Length	Height	Width	Weight		Connection	
			Shipping	Operating	Water	Condensate
54.0 in	21.0 in	24.0 in	364 lb	296 lb	1.00 in	0.75 in
Fan						
Motor Type				Motor Horsepower		
PSC - Standard Static				0.50 hp		

Unit Options	
Controls	
Unit Control:	Microtech Unit Controller
Control Transformer:	50 VA Transformer
Thermostat / Sensor Control:	Thermostat Control
Alarm Relay:	Included
Unit Airflow Configuration	
Return Air Location:	Left Hand
Discharge Air Location:	Straight

Construction Options	
Cabinet	
Finish:	Galvanized
Color:	Galvanized
Condensate Drain Pan	
Primary Drain Pan Material:	Stainless Steel
Filters	
Filter Rack Type:	1 in rail & 1 in Disposable Filter
Filter Type:	Disposable
(Quantity) Nominal Filter Dimensions:	(2) 20 in x 16 in x 2 in
Insulation / Sound Package	
Compressor Side:	1/2 inch Fiberglass, Skin-faced
Air Compartment:	
Miscellaneous	
Coil Treatment:	None

Water Pressure Drop Calculation	
Base Unit Cool Pressure Drop:	10.24 ft H ₂ O
Base Unit Heat Pressure Drop:	10.61 ft H ₂ O
Total Cool Pressure Drop:	10.24 ft H ₂ O
Total Heat Pressure Drop:	10.61 ft H ₂ O

Warranty	
Unit Warranty:	1st Year Labor Allowance

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.