

**TECHNICAL REPORT**



Project name			
Submitted by		Date	
Customer		Quantity	1
<b>OVERVIEW</b>			
System Type	Water-Cooled Self-Contained Uni	Refrigerant	R410A
Series	WCPSC	Power supply	460V/3/60HZ
Unit nomenclature		WCPSC025VCOAR	
Altitude	0	ft	Approval
		ETL	
<b>FILTER</b>			
Type	2" MERV8, 4" MERV14		
Size (Qty)	20x24x2(2), 24x24x2(4)		
<b>DX COOLING COIL</b>			
Type	Ø3/8	Number of coil	1
Rows	5	Face area	23.26 ft <sup>2</sup>
Fins per inch	12	Face velocity	391 ft/min
Refrigerant	R410A	Entering air (DB)	78 °F
Capacity (Total)	397856 Btu/h	Entering air (WB)	68 °F
Capacity (Sensible)	238167 Btu/h	Leaving air (DB)	53.8 °F
Air pressure drop	0.6 inH2O	Leaving air (WB)	53.4 °F
<b>HOT GAS REHEAT COIL</b>			
Type	Ø 3/8	Number of coil	1
Rows	2	Face area	21.88 ft <sup>2</sup>
Fins per inch	12	Face velocity	416 ft/min
Refrigerant	R410A	Entering air (DB)	53.8 °F
Capacity (Total)	237838 Btu/h	Leaving air (DB)	77.1 °F
Air pressure drop	0.2 inH2O		
<b>COMPRESSOR (OR EQUIVALENT MODELS)</b>			
Compressor	VZH088AG (100%), SH140		
Type	Scroll, Variable Speed	Quantity	2
Total LRA	-, 1x147 A	Total Power	17.7 kW
		Total Amps	28.7 A
<b>FAN EC (EVAPORATOR)</b>			
Type	EC Fan	Model	K3G500
Air Flow	9103 CFM	Fan Speed	2250 RPM
External Static Pressure	0.5 inH2O	Absorbed Power	4.6 kW
Total Static Pressure	2.2 inH2O	Motor Horsepower	n/a HP
Quantity	1	FLA	6.9 A
		Locked rotor current (LRA)	n/a A
<b>FAN (RETURN)</b>			
Type	Direct Driven	Model	BNB-Q500/DIIM (II)
Air Flow	7800 CFM	Fan Speed	1445 RPM
External Static Pressure	0 inH2O	Absorbed Power	1.6 kW
Total Static Pressure	1 inH2O	Motor Horsepower / Poles Nr.	3 / 4 HP
Quantity	1	FLA	3.9 A
		Locked rotor current (LRA)	32 A
<b>CONDENSER (WATER COOLED)</b>			
Type	8"D x 40"L x 42H (2)	Fluid	Water
		Entering fluid temp	60 °F
		Leaving fluid temp	70 °F
Quantity	1	Flow Rate	92 Gal/mi
		Fluid pressure drops	6.238 psi
<b>ELECTRICAL SUMMARY</b>			
Unit FLA	39.5 A	MCA	43.5 A
Total Power Input	22.3 kW	MFS	60 A
EER	17.83	IEER	23.1
<b>NOTES</b>			
Manufacturer reserves the right to change specifications without prior notice.			
IEER (estimated as per AHRI 340/360 Standard Conditions)			