

TECHNICAL REPORT



Project name			
Submitted by			Date
Customer			Quantity 1
OVERVIEW			
System Type	Water-Cooled Self-Contained Uni	Refrigerant	R410A
Series	WCPSC	Power supply	460V/3/60HZ
Unit nomenclature	WCPSC055VCOAR		
Altitude	0	ft	Approval ETL
FILTER			
Type	2" MERV8, 4" MERV14		
Size (Qty)	24x24x2(9)		
DX COOLING COIL			
Type	Ø1/2	Number of coil	1
Rows	6	Face area	35.97 ft ²
Fins per inch	12	Face velocity	665 ft/min
Refrigerant	R410A	Entering air (DB)	78 °F
Capacity (Total)	878626 Btu/h	Entering air (WB)	68 °F
Capacity (Sensible)	549696 Btu/h	Leaving air (DB)	56.7 °F
Air pressure drop	1.8 inH2O	Leaving air (WB)	56.1 °F
HOT GAS REHEAT COIL			
Type	Ø 3/8	Number of coil	1
Rows	2	Face area	34.03 ft ²
Fins per inch	12	Face velocity	703 ft/min
Refrigerant	R410A	Entering air (DB)	56.7 °F
Capacity (Total)	492306 Btu/h	Leaving air (DB)	75.2 °F
Air pressure drop	0.4 inH2O		
COMPRESSOR (OR EQUIVALENT MODELS)			
Compressor	VZH117AG (100%), SH161 (1), SH140 (2)		
Type	Scroll, Variable Speed	Quantity	4
Total LRA	-, 1x158, 2x147 A	Total Power	36.9 kW
		Total Amps	60.4 A
FAN EC (EVAPORATOR)			
Type	EC Fan	Model	K3G500
Air Flow	23914 CFM	Fan Speed	2250 RPM
External Static Pressure	0.5 inH2O	Absorbed Power	15.8 kW
Total Static Pressure	3.4 inH2O	Motor Horsepower	n/a HP
Quantity	3	FLA	24.5 A
		Locked rotor current (LRA)	n/a A
FAN (RETURN)			
Type	Direct Driven	Model	BNB-Q560/DIIM (II) (2)
Air Flow	17500 CFM	Fan Speed	1445 RPM
External Static Pressure	0 inH2O	Absorbed Power	4.79 kW
Total Static Pressure	1 inH2O	Motor Horsepower / Poles Nr.	10 / 4 HP
Quantity	3	FLA	34.8 A
		Locked rotor current (LRA)	243 A
CONDENSER (WATER COOLED)			
Type	8"D x 40"L x 42H (2), 8"D x 40"L x 48H (2)	Fluid	Water
		Entering fluid temp	60 °F
		Leaving fluid temp	70 °F
Quantity	1	Flow Rate	201 Gal/mi
		Fluid pressure drops	3.334 psi
ELECTRICAL SUMMARY			
Unit FLA	119.7 A	MCA	125.9 A
Total Power Input	52.61 kW	MFS	175 A
EER	16.69	IEER	21.6
NOTES			
<i>Manufacturer reserves the right to change specifications without prior notice.</i>			
<i>IEER (estimated as per AHRI 340/360 Standard Conditions)</i>			