

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		WCPSC065VCOAR	
Altitude	0	ft	Approval
		ETL	
FILTER			
Type	2" MERV8, 4" MERV14		
Size (Qty)	20x24x2(12)		
DX COOLING COIL			
Type	Ø1/2	Number of coil	1
Rows	6	Face area	38.89 ft ²
Fins per inch	12	Face velocity	627 ft/min
Refrigerant	R410A	Entering air (DB)	78 °F
Capacity (Total)	949940 Btu/h	Entering air (WB)	68 °F
Capacity (Sensible)	585523 Btu/h	Leaving air (DB)	55.8 °F
Air pressure drop	1.6 inH2O	Leaving air (WB)	55.2 °F
HOT GAS REHEAT COIL			
Type	Ø 3/8	Number of coil	1
Rows	2	Face area	36.94 ft ²
Fins per inch	12	Face velocity	660 ft/min
Refrigerant	R410A	Entering air (DB)	55.8 °F
Capacity (Total)	532434 Btu/h	Leaving air (DB)	75.3 °F
Air pressure drop	0.3 inH2O		
COMPRESSOR (OR EQUIVALENT MODELS)			
Compressor	VZH117AG (100%), SH184 (1), SH161 (2)		
Type	Scroll, Variable Speed	Quantity	4
Total LRA	-, 1x197, 2x158 A	Total Power	39.8 kW
		Total Amps	67.2 A
FAN EC (EVAPORATOR)			
Type	EC Fan	Model	K3G500
Air Flow	24400 CFM	Fan Speed	2250 RPM
External Static Pressure	0.5 inH2O	Absorbed Power	15.5 kW
Total Static Pressure	3.3 inH2O	Motor Horsepower	n/a HP
Quantity	3	FLA	24.1 A
		Locked rotor current (LRA)	n/a A
FAN (RETURN)			
Type	Direct Driven	Model	BNB-Q560/DIIM (II) (2)
Air Flow	20500 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 48H (4)	Fluid	Water
		Entering fluid temp	60 °F
		Leaving fluid temp	70 °F
Quantity	1	Flow Rate	218 Gal/mi
		Fluid pressure drops	3.244 psi
ELECTRICAL SUMMARY			
Unit FLA	126.1 A	MCA	132.1 A
Total Power Input	55.41 kW	MFS	175 A
EER	17.15	IEER	20.9
NOTES			
Manufacturer reserves the right to change specifications without prior notice.			
IEER (estimated as per AHRI 340/360 Standard Conditions)			