

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		WCPSC010VCOAR	
Altitude	0	ft	Approval
		ETL	
FILTER			
Type	2" MERV8, 4" MERV14		
Size (Qty)	16x20x2(4)		
DX COOLING COIL			
Type	Ø3/8	Number of coil	1
Rows	6	Face area	8 ft ²
Fins per inch	12	Face velocity	789 ft/min
Refrigerant	R410A	Entering air (DB)	78 °F
Capacity (Total)	213941 Btu/h	Entering air (WB)	68 °F
Capacity (Sensible)	136827 Btu/h	Leaving air (DB)	57.9 °F
Air pressure drop	2.1 inH2O	Leaving air (WB)	57.2 °F
HOT GAS REHEAT COIL			
Type	Ø 3/8	Number of coil	1
Rows	2	Face area	7.11 ft ²
Fins per inch	12	Face velocity	888 ft/min
Refrigerant	R410A	Entering air (DB)	57.9 °F
Capacity (Total)	91603 Btu/h	Leaving air (DB)	71 °F
Air pressure drop	0.5 inH2O		
COMPRESSOR (OR EQUIVALENT MODELS)			
Compressor			VZH088AJ
Type	Scroll, Variable Speed	Quantity	1
Total LRA	- A	Total Power	10.6 kW
		Total Amps	16.2 A
FAN EC (EVAPORATOR)			
Type	EC Fan	Model	K3G450
Air Flow	6315 CFM	Fan Speed	2600 RPM
External Static Pressure	0.5 inH2O	Absorbed Power	4.7 kW
Total Static Pressure	3.8 inH2O	Motor Horsepower	n/a HP
Quantity	1	FLA	7.3 A
		Locked rotor current (LRA)	n/a A
FAN (RETURN)			
Type	Direct Driven	Model	BNB-Q355/DIIM (II)
Air Flow	3200 CFM	Fan Speed	1645 RPM
External Static Pressure	0 inH2O	Absorbed Power	1.33 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
CONDENSER (WATER COOLED)			
Type	8"D x 40"L x 42H (1)	Fluid	Water
		Entering fluid temp	60 °F
		Leaving fluid temp	70 °F
Quantity	1	Flow Rate	50 Gal/mi
		Fluid pressure drops	11.754 psi
ELECTRICAL SUMMARY			
Unit FLA	27.4 A	MCA	31.4 A
Total Power Input	15.27 kW	MFS	50 A
EER	13.98	IEER	18
NOTES			
Manufacturer reserves the right to change specifications without prior notice.			
IEER (estimated as per AHRI 340/360 Standard Conditions)			