

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		WCPSC015VCOAR	
Altitude	0	ft	Approval
		ETL	
FILTER			
Type	2" MERV8, 4" MERV14		
Size (Qty)	20x20x2(2), 20x25x2(2)		
DX COOLING COIL			
Type	Ø3/8	Number of coil	1
Rows	6	Face area	12.22 ft ²
Fins per inch	12	Face velocity	570 ft/min
Refrigerant	R410A	Entering air (DB)	78 °F
Capacity (Total)	284914 Btu/h	Entering air (WB)	68 °F
Capacity (Sensible)	173337 Btu/h	Leaving air (DB)	54.9 °F
Air pressure drop	1.3 inH2O	Leaving air (WB)	54.5 °F
HOT GAS REHEAT COIL			
Type	Ø 3/8	Number of coil	1
Rows	2	Face area	11.11 ft ²
Fins per inch	12	Face velocity	627 ft/min
Refrigerant	R410A	Entering air (DB)	54.9 °F
Capacity (Total)	137118 Btu/h	Leaving air (DB)	72.5 °F
Air pressure drop	0.3 inH2O		
COMPRESSOR (OR EQUIVALENT MODELS)			
Compressor	VZH088AJ		
Type	Scroll, Variable Speed	Quantity	1
Total LRA	- A	Total Power	13.7 kW
		Total Amps	21 A
FAN EC (EVAPORATOR)			
Type	EC Fan	Model	K3G450
Air Flow	6971 CFM	Fan Speed	2600 RPM
External Static Pressure	0.5 inH2O	Absorbed Power	4.4 kW
Total Static Pressure	2.9 inH2O	Motor Horsepower	n/a HP
Quantity	1	FLA	6.8 A
		Locked rotor current (LRA)	n/a A
FAN (RETURN)			
Type	Direct Driven	Model	BNB-Q400/DIIM (II)
Air Flow	4800 CFM	Fan Speed	1645 RPM
External Static Pressure	0 inH2O	Absorbed Power	1.32 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 48H (1)	Fluid	Water
		Entering fluid temp	60 °F
		Leaving fluid temp	70 °F
Quantity	1	Flow Rate	66 Gal/mi
		Fluid pressure drops	9.695 psi
ELECTRICAL SUMMARY			
Unit FLA	31.7 A	MCA	36.9 A
Total Power Input	18.08 kW	MFS	60 A
EER	15.75	IEER	25.9
NOTES			
Manufacturer reserves the right to change specifications without prior notice.			
IEER (estimated as per AHRI 340/360 Standard Conditions)			