

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	WCPSC080VCOAR		
Altitude	0	ft	Approval ETL
FILTER			
Type	2" MERV8, 4" MERV14		
Size (Qty)	20x20x2(8), 20x24x2(8)		
DX COOLING COIL			
Type	Ø1/2	Number of coil	1
Rows	6	Face area	23.68 ft ²
Fins per inch	12	Face velocity	1005 ft/min
Refrigerant	R410A	Entering air (DB)	78 °F
Capacity (Total)	984744 Btu/h	Entering air (WB)	68 °F
Capacity (Sensible)	586206 Btu/h	Leaving air (DB)	55.2 °F
Air pressure drop	3.7 inH2O	Leaving air (WB)	54.3 °F
HOT GAS REHEAT COIL			
Type	Ø 3/8	Number of coil	1
Rows	2	Face area	44.33 ft ²
Fins per inch	12	Face velocity	537 ft/min
Refrigerant	R410A	Entering air (DB)	55.2 °F
Capacity (Total)	576656 Btu/h	Leaving air (DB)	76.9 °F
Air pressure drop	0.2 inH2O		
COMPRESSOR (OR EQUIVALENT MODELS)			
Compressor	VZH088AG (100%), SH140 (5)		
Type	Scroll, Variable Speed	Quantity	6
Total LRA	-, 5x147 A	Total Power	46.3 kW
		Total Amps	78.7 A
FAN EC (EVAPORATOR)			
Type	EC Fan	Model	K3G500
Air Flow	23802 CFM	Fan Speed	2250 RPM
External Static Pressure	0.5 inH2O	Absorbed Power	23.0 kW
Total Static Pressure	5.4 inH2O	Motor Horsepower	n/a HP
Quantity	4	FLA	36.3 A
		Locked rotor current (LRA)	n/a A
FAN (RETURN)			
Type	Direct Driven	Model	BNB-Q630/DIIM (II) (2)
Air Flow	25000 CFM	Fan Speed	1445 RPM
External Static Pressure	0 inH2O	Absorbed Power	6.39 kW
Total Static Pressure	1 inH2O	Motor Horsepower / Poles Nr.	15 / 4 HP
Quantity	4	FLA	69.2 A
		Locked rotor current (LRA)	464 A
CONDENSER (WATER COOLED)			
Type	8"D x (40+40)"L x 42H	Fluid	Water
	(3)	Entering fluid temp	60 °F
		Leaving fluid temp	70 °F
Quantity	1	Flow Rate	229 Gal/mi
		Fluid pressure drops	4.49 psi
ELECTRICAL SUMMARY			
Unit FLA	184.2 A	MCA	193.3 A
Total Power Input	69.31 kW	MFS	250 A
EER	14.21	IEER	20.2
NOTES			
<i>Manufacturer reserves the right to change specifications without prior notice.</i>			
<i>IEER (estimated as per AHRI 340/360 Standard Conditions)</i>			