

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	WCPSC130VCOAR		
Altitude	0	ft	Approval ETL
FILTER			
Type	2" MERV8, 4" MERV14		
Size (Qty)	20x20x2(16), 20x25x2(8)		
DX COOLING COIL			
Type	Ø1/2	Number of coil	1
Rows	8	Face area	69.97 ft ²
Fins per inch	12	Face velocity	642 ft/min
Refrigerant	R410A	Entering air (DB)	78 °F
Capacity (Total)	1893738 Btu/h	Entering air (WB)	68 °F
Capacity (Sensible)	1149550 Btu/h	Leaving air (DB)	54.3 °F
Air pressure drop	2.3 inH ₂ O	Leaving air (WB)	54 °F
HOT GAS REHEAT COIL			
Type	Ø 3/8	Number of coil	1
Rows	2	Face area	66.5 ft ²
Fins per inch	12	Face velocity	675 ft/min
Refrigerant	R410A	Entering air (DB)	54.3 °F
Capacity (Total)	1066982 Btu/h	Leaving air (DB)	75.6 °F
Air pressure drop	0.3 inH ₂ O		
COMPRESSOR (OR EQUIVALENT MODELS)			
Compressor	<VZH117AG+SH184> TDM (100%), SH184 TDM (1), SH161 TDM (2)		
Type	Scroll, Variable Speed	Quantity	8
Total LRA	-, 1x197, 2x197, 4x158 A	Total Power	76.1 kW
		Total Amps	133 A
FAN EC (EVAPORATOR)			
Type	EC Fan	Model	K3G500
Air Flow	44884 CFM	Fan Speed	2250 RPM
External Static Pressure	0.5 inH ₂ O	Absorbed Power	32.8 kW
Total Static Pressure	3.9 inH ₂ O	Motor Horsepower	n/a HP
Quantity	6	FLA	51.7 A
		Locked rotor current (LRA)	n/a A
FAN (RETURN)			
Type	Direct Driven	Model	BNB-Q710/DIIM (II) (2)
Air Flow	36000 CFM	Fan Speed	1445 RPM
External Static Pressure	0 inH ₂ O	Absorbed Power	9.59 kW
Total Static Pressure	1 inH ₂ O	Motor Horsepower / Poles Nr.	20 / 4 HP
Quantity	6	FLA	139.8 A
		Locked rotor current (LRA)	870 A
CONDENSER (WATER COOLED)			
Type	8"D x (40+40)"L x 48H (4)	Fluid	Water
		Entering fluid temp	60 °F
		Leaving fluid temp	70 °F
Quantity	1	Flow Rate	432 Gal/mi
		Fluid pressure drops	2.815 psi
ELECTRICAL SUMMARY			
Unit FLA	324.5 A	MCA	337.4 A
Total Power Input	108.91 kW	MFS	400 A
EER	17.39	IEER	20.8
NOTES			
<i>Manufacturer reserves the right to change specifications without prior notice.</i>			
<i>IEER (estimated as per AHRI 340/360 Standard Conditions)</i>			