

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		WCPSC090VCOAR	
Altitude	0	ft	Approval
		ETL	
FILTER			
Type	2" MERV8, 4" MERV14		
Size (Qty)	20x25x2(16)		
DX COOLING COIL			
Type	Ø1/2	Number of coil	1
Rows	6	Face area	53.82 ft ²
Fins per inch	12	Face velocity	610 ft/min
Refrigerant	R410A	Entering air (DB)	78 °F
Capacity (Total)	1335171 Btu/h	Entering air (WB)	68 °F
Capacity (Sensible)	818914 Btu/h	Leaving air (DB)	54.9 °F
Air pressure drop	1.6 inH2O	Leaving air (WB)	54.5 °F
HOT GAS REHEAT COIL			
Type	Ø 3/8	Number of coil	1
Rows	2	Face area	50.67 ft ²
Fins per inch	12	Face velocity	648 ft/min
Refrigerant	R410A	Entering air (DB)	54.9 °F
Capacity (Total)	760827 Btu/h	Leaving air (DB)	75.6 °F
Air pressure drop	0.3 inH2O		
COMPRESSOR (OR EQUIVALENT MODELS)			
Compressor	VZH117AG (100%), SH161 (5)		
Type	Scroll, Variable Speed	Quantity	6
Total LRA	-, 5x158 A	Total Power	56.2 kW
		Total Amps	90.6 A
FAN EC (EVAPORATOR)			
Type	EC Fan	Model	K3G500
Air Flow	32819 CFM	Fan Speed	2250 RPM
External Static Pressure	0.5 inH2O	Absorbed Power	20.6 kW
Total Static Pressure	3.2 inH2O	Motor Horsepower	n/a HP
Quantity	4	FLA	31.8 A
		Locked rotor current (LRA)	n/a A
FAN (RETURN)			
Type	Direct Driven	Model	BNB-Q630/DIIM (II) (2)
Air Flow	27500 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 48H (3)	Fluid	Water
		Entering fluid temp	60 °F
		Leaving fluid temp	70 °F
Quantity	1	Flow Rate	306 Gal/mi
		Fluid pressure drops	2.993 psi
ELECTRICAL SUMMARY			
Unit FLA	191.6 A	MCA	199.5 A
Total Power Input	76.71 kW	MFS	250 A
EER	17.4	IEER	20.5
NOTES			
Manufacturer reserves the right to change specifications without prior notice.			
IEER (estimated as per AHRI 340/360 Standard Conditions)			