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	**WCPSC045VCOAR**				
Altitude	**0**	**ft**	Approval	**ETL**	
FILTER					
Type	**2" MERV8, 4" MERV14**				
Size (Qty)	**20x24x2(9)**				
DX COOLING COIL					
Type	**Ø3/8**		Number of coil	**1**	
Rows	**6**		Face area	**30**	**ft²**
Fins per inch	**12**		Face velocity	**567**	**ft/min**
Refrigerant	**R410A**		Entering air (DB)	**78**	**°F**
Capacity (Total)	**712114**	**Btu/h**	Entering air (WB)	**68**	**°F**
Capacity (Sensible)	**435048**	**Btu/h**	Leaving air (DB)	**54.3**	**°F**
Air pressure drop	**1.3**	**inH2O**	Leaving air (WB)	**54.1**	**°F**
HOT GAS REHEAT COIL					
Type	**Ø 3/8**		Number of coil	**1**	
Rows	**2**		Face area	**28.33**	**ft²**
Fins per inch	**12**		Face velocity	**600**	**ft/min**
Refrigerant	**R410A**		Entering air (DB)	**54.3**	**°F**
Capacity (Total)	**389527**	**Btu/h**	Leaving air (DB)	**74.8**	**°F**
Air pressure drop	**0.3**	**inH2O**			
COMPRESSOR (OR EQUIVALENT MODELS)					
Compressor				**VZH117AG (100%), SH161 (2)**	
Type	**Scroll, Variable Speed**		Quantity	**3**	
Total LRA	**-, 2x158**	**A**	Total Power	**30.3**	**kW**
			Total Amps	**48.4**	**A**
FAN EC (EVAPORATOR)					
Type	**EC Fan**		Model	**K3G500**	
Air Flow	**17005**	**CFM**	Fan Speed	**2250**	**RPM**
External Static Pressure	**0.5**	**inH2O**	Absorbed Power	**10.0**	**kW**
Total Static Pressure	**2.9**	**inH2O**	Motor Horsepower	**n/a**	**HP**
Quantity	**2**		FLA	**15.2**	**A**
			Locked rotor current (LRA)	**n/a**	**A**
FAN (RETURN)					
Type	**Direct Driven**		Model	**BNB-Q630/DIIM (II)**	
Air Flow	**14000**	**CFM**	Fan Speed	**1445**	**RPM**
External Static Pressure	**0**	**inH2O**	Absorbed Power	**3.2**	**kW**
Total Static Pressure	**1**	**inH2O**	Motor Horsepower / Poles Nr.	**7.5 / 4**	**HP**
Quantity	**2**		FLA	**17.8**	**A**
			Locked rotor current (LRA)	**127**	**A**
CONDENSER (WATER COOLED)					
Type	**8"D x 40"L x 48H (3)**		Fluid	**Water**	
			Entering fluid temp	**60**	**°F**
			Leaving fluid temp	**70**	**°F**
Quantity	**1**		Flow Rate	**163**	**Gal/mi**
			Fluid pressure drops	**6.755**	**psi**
ELECTRICAL SUMMARY					
Unit FLA	**81.4**	**A**	MCA	**86.5**	**A**
Total Power Input	**40.3**	**kW**	MFS	**125**	**A**
EER	**17.68**		IEER	**20.8**	
NOTES					
Manufacturer reserves the right to change specifications without prior notice.					
IEER (estimated as per AHRI 340/360 Standard Conditions)					