DCT ONE SERIES TECHNICAL SPECIFICATIONS

Unit Name	Unit Type	Net Cooling Capacity (ton)	Net Heating Capacity (MBH)	Power Supply Volts-Ph-Hz	Refrigerant Type
DCT-1	M2002	29	511	480-3-60	R744

Cooling Circuit			Heating Circuit			CO_2 Circuit	
	Min	Max		Min	Max		
Return Temp (°F)	32	72	Return Temp (°F)	40	100	Mass of Gas (kg)	16-22
Flow Temp (°F)	32	50	Flow Temp (°F)	109	185	Mass Flow Rate (kg/s)	2252
Typical ΔTemp (°F)	10-18		Typical ΔTemp (°F)	80-110		Max discharge Temp (°F)	284
Design Flow (gpm)	26	63	Design Flow (gpm)	2	34	Max Op. Pressure (psi)	1450
Supply Press. (psi)	21	72	Supply Press. (psi)	14	72		
Fluid	Water/Glycol		Fluid	Water			

Oil Circuit	
Type	PAG 68
Volume (US Gallon)	2

Electrical Data	
Nominal Absorb Power (kW)	46
Max Apparent Power (kVA)	51
Rated Current (A)	60
Short Circuit Current Rating (kA)	10

Physical Data	
H (in)	79 ″
D (in)	99 ″
W (in)	40 ″
Weight (lbs)	3285
IP Rating	54

Connection	Description	Standard	Type	Sizes
N1	Hot Water Flow	ANSI B16.5	Class 300	1″
N2	Hot Water Return	ANSI B16.5	Class 300	1″
N3	Cold Water Return	ANSI B16.5	Class 300	1,1/2″
N4	Cold Water Flow	ANSI B16.5	Class 300	1,1/2″

DCT ONE SERIES PERFORMANCE DATA

Hot Water Inlet: Outlet(ºF)	Cold Water Inlet: Outlet(ºF)*	Specifications	Hot Water Circuit	Cold Water Circuit
68/140	54/45	Thermal power (Btu/hr)	440,170	307,090
		Combined COP	5.78	
		Flow rate (GPM)	12.4	64.4
		Absorbed power (kW)	37.87	
68/140	63/54	Thermal power (Btu/hr)	474,290	337,800
		Combined COP	6.18	
		Flow rate (GPM)	10.4	64.1
		Absorbed power (kW)	38.4	
68/158	54/45	Thermal power (Btu/hr)	433,340	303,680
		Combined COP	5.17	
		Flow rate (GPM)	9.1	64
		Absorbed power (kW)	42.04	

***All tests performed with the absence of glycol. The data contained in this informational brochure may be subject to updates or modifications based upon any product improvements or revisions.**