

ENGINEERING SPECIFICATION SUMMARY DATA

Specifications	DS5	DS10	DS15	DS25	DS35	DS50	DS75	DS100
Performance Data								
Air Flow Capacity (scfm)	5	10	15	25	35	50	75	100
Air Pressure Drop (psig)	0.4	1.3	2.4	2.3	3.1	2.9	3.4	4.6
Reference Data								
Working Pressure (psig)	100							
Maximum Operating Pressure (psig)	232 Standard (250 Optional)							
Sound Pressure Level (dBA) (1m free field)	50				55			
Max/Min Inlet Air Temperature (F)	140/40							
Max/Min Ambient Temperature (F)	122/40							
Cooling Data								
Ambient Temperature (F) Air Cooled Only	100							
Condenser Air Flow (cfm)	99	99	99	250	250	300	420	620
Refrigeration Data								
Compressor	Hermetic Piston							
Capacity Control	Automatic Expansion Valve							
Expansion System	Automatic Expansion Valve							
Condenser	Air Cooled (Finned Coils with Fan)							
Refrigerant	R134a							
Refrigerant Quantity (oz.)	4.9	4.9	4.6	6.9	7.0	8.5	11.3	11.3
Fan Cycling Switch	No	No	No	Yes	Yes	Yes	Yes	Yes
Heat Exchanger Data								
Heat Exchanger	Copper tube in tube							
Evaporator	Copper tube in tube							
Air to Air	Copper tube in tube							
Moisture Separator								
Separator Type	Demister							
Drain Type	Mechanical No Air Loss Float Drain							
Piping Connection								
Air Inlet/Outlet (NPT - Female)	3/8	3/8	3/8	1/2	1/2	3/4	3/4	3/4
Drain (NPT - Male)	1/2							
Electrical Data								
Required Main Electrical Supply (+/- 10%)	115 Volt / 1 Phase / 60 Hz							
Electrical Protection Class (Std.)	IP20							
Classification	UL Listed							
Maximum Adsorbed Power (kW)	0.26	0.26	0.29	0.36	0.51	0.69	0.96	1.19
Fan Power (kW)	0.02	0.02	0.02	0.026	0.026	0.034	0.034	0.034
L.R.A. Current (Amps)	11	11	14	22	27	34	45	48.8
F.L.A. Current (Amps)	2.5	2.5	3.2	4.2	5.6	7.4	9.6	12.3

Performance data obtained in accordance with CAGI Standard No. ADF 100, Refrigerated Compressed Air Dryer – Methods for Testing & Rating. Rating conditions are 100°F (37.8°C) inlet temperature, 100 psig (6.9 bar) inlet pressure, 100% relative humidity, 100°F (37.8°C) ambient air temperature and 5 psid (0.35 bar) pressure drop with a 38°F (3.3°C) pressure dew point.