

KSI ECOTROC® Refrigerated dryer KTA-S



Data sheet for refrigerated dryer KTA-S 1420

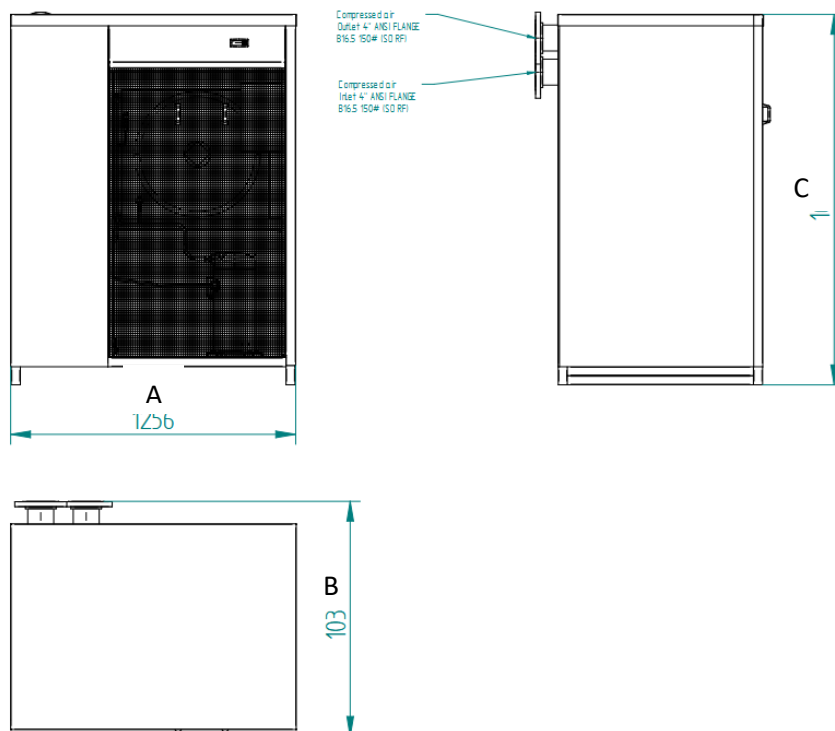
Rev 01_0626

Technical specification

Nominal capacity @ 101 psi; 95°F inlet	1420 cfm
Connection	4" flange (ANSI B16.5 150 lbs)
Pressure dew point	37°F
Cooling mechanism	air-cooled
Heat exchanger technology	tube-in-tube vertical
Heat exchanger material	copper
Operating pressure	58 psi – 232 psi
Differential pressure	2 psi
Ambient temperature	39°F – 122°F
Power supply	460 V / 3 Ph / 60 Hz
Control voltage	230 V / 1 Ph / 60 Hz
Power consumption	8.2 kW
Electrical load	10.24 kVA
Refrigerant	R513A
Controller	E33 controller
Condensate drain	time-controlled solenoid valve

Dimensions

A	40.0"
B	50.0"
C	64.2"
Weight	775 lbs



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Correction factors									
Inlet	°F	86	95	104	113	122	140		
temperature	F(t1)	1.29	1	0.92	0.78	0.65	0.45		
Ambient	°F	68	77	86	95	104	122		
temperature	F(t2)	1.05	1	0.98	0.93	0.84	0.70		
Operating	psi	58	87	101	116	145	160	174	203
pressure	F(p)	0.8	0.94	1	1.04	1.11	1.14	1.16	1.22

Pressure dew-point 3° C calculated to volume flow at a suction condition of 68 °F and 14.5 psi (abs.). Multiply the volume flow of the dryer with the corrections factors in the tables above.

Sample: Capacity KTA-S176 at inlet temperature 104 °F, ambient temperature 86 °F, operating pressure 87 psi • capacity nom (176 cfm) x F(t1) (0.92) x F(t2) (0.98) x F(p) (0.94) = Capacity corrected (149 cfm)