

Specifications

Port Sizes	1/4"
Thread Styles	NPT
Electrical Requirement	115-1-60 VAC
Optional voltage	208/250v, 50-60Hz
Dryer Design	Pressure Swing, Heatless Activated Alumina
Recommended Temp. Maximum Pressure*	70°F 100 PSIG
Dryer Capacity	-40°F Dew Point Optional units to -100°F
Differential Pressure	< 3.5 PSID at Rated Flow

*Pressure dew point is at 100 PSIG inlet with 70°F inlet air temperature.

Physical Dimensions

Model #	Port	Description	Wt.	A	B	C
DE0-AE-000	1/4"	2.8 SCFM -40 Press D.P	7.0	8.2	5.0	13.0
DE1-AE-000	1/4"	5.8 SCFM -40 Press D.P	8.0	8.2	5.0	16.0
DE2-AE-000	1/4"	8.0 SCFM -40 Press D.P	9.0	8.2	5.0	19.0

Do not operate above 120°F inlet conditions. For applications requiring pressure dew points below -40°F, contact factory.

Features

1. Solid State Timing System
2. Built-In Mounting Brackets
3. Reliable Switching Valves

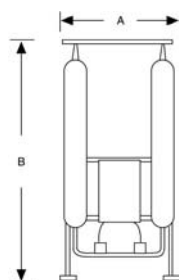
Pre and After filtration recommended to maximize service intervals and reduce downstream particulate migration.

Benefits

1. Continuous Low Dew Point Operation
2. Low Bed Velocity Ensures Proper Drying
3. Upward Compressed Air Drying
4. Counter Current Desiccant Drying
5. Prefilters are Required for Operation
6. Low Pressure Drop Design

Replacement Parts & Accessories

Description	Part Number
Exhaust Muffler	DRP-94-188
Moisture Indicator	DRP-94-169
DE0 Towers	DRP-94-101
DE1 Towers	DRP-94-102
DE2 Towers	DRP-94-103



Front View

Specifications

Port Sizes	1/2", 3/4"
Thread Styles	NPT
Electrical Requirement	115-1-60 VAC, Power On Light
Dryer Design	Pressure Swing, Heatless Activated Alumina
Recommended Temp. Maximum Pressure*	120°F 150 PSIG
Dryer Capacity	-40°F Dew Point
Differential Pressure	< 3.5 PSID at Rated Flow

*Pressure dew point is at 100 PSIG inlet with 100°F inlet air temperature and 100°F ambient temperature. For higher flow capacity units, contact factory.

Physical Dimensions

Model #	Port	Description	Wt.	A	B	C
PH20B100	1/2"	20 SCFM -40 Press D.P	80.0	22.0	31.1	14.5
PH30B100	1/2"	30 SCFM -40 Press D.P	105.0	22.0	43.3	14.5
PH40B100	3/4"	40 SCFM -40 Press D.P	115.0	22.0	44.0	15.0
PH60B100	3/4"	60 SCFM -40 Press D.P	155.0	22.0	56.0	15.0
PH80B100	3/4"	80 SCFM -40 Press D.P	290.0	26.0	85.0	26.0

Do not operate above 120°F inlet conditions. For applications requiring pressure dew points below -40°F, contact factory.

Features

1. Power On Light and Cord Provided
2. Tower Sequencing Lights
3. Removable Stainless Steel Retainer Screen
4. Reliable Cam Timers
5. Shipped Ready to Operate
6. Wall Mountable Designs

Pre and After filtration recommended to maximize service intervals and reduce downstream particulate migration.

Benefits

1. Continuous Low Dew Point Operation
2. Low Bed Velocity Ensures Proper Drying
3. Upward Compressed Air Drying
4. Counter Current Desiccant Drying
5. Prefilters are Required for Operation
6. Low Pressure Drop Design

Operating Conditions & Correction Factors

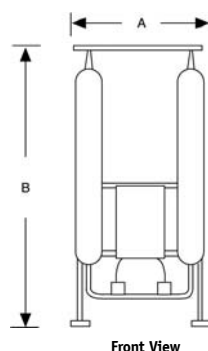
Pressure	CF	Purge Rate
75	.78	.190
80	.82	.180
85	.87	.170
90	.91	.160
95	.95	.155
100	1.00	.150
105	1.04	.140
110	1.09	.135

Pressure	CF	Purge Rate
115	1.13	.13
120	1.17	.125
125	1.22	.120
130	1.26	.117
135	1.30	.113
140	1.35	.109
145	1.39	.106
150	1.44	.102

Example

What flow capacity does a 40 SCFM dryer have with an operating pressure of 90 PSIG?

Outlet flow = (40 SCFM x .91) - (40 x .160) = 30 SCFM dry air available



Front View

Physical Dimensions

Model #	Port	Description	Wt.	A	B	C
PH100B100	1"	100 SCFM -40 Press D.P	300.0	27.0	86.0	26.0
PH140B100	1"	140 SCFM -40 Press D.P	430.0	29.0	85.0	26.0
PH180B100	1-1/2"	180 SCFM -40 Press D.P	450.0	35.0	87.0	30.0
PH280B100	1-1/2"	280 SCFM -40 Press D.P	625.0	37.0	90.0	30.0
PH410B100	2"	410 SCFM -40 Press D.P	800.0	47.0	92.0	33.0

Do not operate above 120°F inlet conditions. For applications requiring pressure dew points below -40°F, contact factory.

Specifications

Port Sizes	1", 1-1/2", 2"
Thread Styles	NPT
Electrical Requirement	115-1-60 VAC, Power On Light
Dryer Design	Pressure Swing, Heatless Activated Alumina
Recommended Temp. Maximum Pressure*	120°F 150 PSIG
Dryer Capacity	-40°F Dew Point
Differential Pressure	< 3.5 PSID at Rated Flow

*Pressure dew point is at 100 PSIG inlet with 100°F inlet air temperature and 100°F ambient temperature. For higher flow capacity units, contact factory.

Example

What flow capacity does a 100 SCFM dryer have with an operating pressure of 90 PSIG?

Outlet flow = (100 SCFM x .91) - (100 x .160) =
75 SCFM dry air available

Features

1. Power On Light and Cord Provided
2. Tower Sequencing Lights
3. ASME Coded Vessels
4. Reliable Cam Timers
5. Control Air Filter
6. Adjustable Purge Flow

Pre and After filtration recommended to maximize service intervals and reduce downstream particulate migration.

Benefits

1. Continuous Low Dew Point Operation
2. Low Bed Velocity Ensures Proper Drying
3. Upward Compressed Air Drying
4. Counter Current Desiccant Drying
5. Prefilters are Required for Operation
6. Low Pressure Drop Design

Sizing Procedure

For purge air requirements, multiply inlet air flow by the purge air rate factor from the table below.

Operating Conditions & Correction Factors

Pressure	CF	Purge Rate
75	.78	.190
80	.82	.180
85	.87	.170
90	.91	.160
95	.95	.155
100	1.00	.150
105	1.04	.140
110	1.09	.135

Pressure	CF	Purge Rate
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