

Selecting the Right Model

BD SERIES

Model No.	Rated Capacity (SCFM)		HP	Available Voltage		Dimensions (Inches)			
	BDA	BDW		Conn.	A	B	C		
BDA & W	325	340	1.5	230/3	460/3	2"	30"	43 1/2"	54 1/2"
BDA & W	425	450	2.0	230/3	460/3	2"	30"	43 1/2"	54 1/2"
BDA & W	525	550	2.5	230/3	460/3	2"	30"	43 1/2"	54 1/2"
BDA & W	650	680	3.0	230/3	460/3	2"	30"	43 1/2"	54 1/2"
BDA & W	750	790	3.5	230/3	460/3	3"	30"	43 1/2"	54 1/2"
BDA & W	950	1000	4.0		460/3	3"	33"	53 1/2"	70"
BDA & W	1100	1150	5.0		460/3	3"	33"	53 1/2"	70"
BDA & W	1300	1350	7.5		460/3	4"	39"	65"	76 7/8"
BDA & W	1600	1680	9		460/3	4"	39"	65"	76 7/8"
BDA & W	1800	1890	10		460/3	4"	39"	65"	76 7/8"
BDA & W	2200	2300	12		460/3	4"	39"	65"	76 7/8"

D SERIES

Model No.	Comp. HP	Specifications:		Pressure Drop (PSID)	Dimensions (Inches)				Weight (lbs.) Air/Water	Electrical Data		
		Rated Capacity (SCFM)			Inlet & Outlet Conn. (150 lb. flg.)	Width _s	Depth _s	Height _s		Main Power ₄	Control Power	Run Load Amps (RLA) Air/Water
		38°F	50°F									
D-2500-A/W	14	2500	3000	1.5	6	87 1/2	70 1/2	103	3100/2800	460-60-3	115-60-1	28.6/22.6
D-3200-A/W	15	3200	3840	2.5	6	87 1/2	70 1/2	103	3200/2900	460-60-3	115-60-1	30.1/24.1
D-4000-A/W	18	4000	4800	2.8	8	87 1/2	67 3/4	106	3300/3000	460-60-3	115-60-1	35.8/29.8
D-5000-A/W	23	5000	6000	4.2	8	87 1/2	67 3/4	106	3600/3300	460-60-3	115-60-1	43.5/37.5
D-6250-A/W	30	6250	7500	4.5	8	104	80 3/4	108	4400/4100	460-60-3	115-60-1	54.1/48.1
D-7500-A/W	40	7500	9000	6.5	8	104	80 3/4	108	4500/4200	460-60-3	115-60-1	70.0/64.0

Notes: 1) Specifications and Dimensions subject to change without notice.

2) Capacities are based on 100°F Inlet Air and Ambient Air Temperatures, and 100 PSIG Inlet Air Pressure.

3) Pressure Drop based on Rated Capacities for 38°F Pressure Dew Point.

4) Consult factory for other Main Power Applications.

5) Dimensions are for Air-Cooled Models only. Consult factory for dimensions on Water-Cooled or Air-Cooled Remote Condenser Models.

Using the specifications columns, read down the column to the nearest SCFM capacity which exceeds the required flow. "A" in the dryer model number indicates air-cooled units, and "W" indicates water-cooled. The number indicates rated capacity.

Rated capacities are based on ... 100°F inlet air, 100°F ambient air and 100 psig. These standard conditions for rated capacities comply with ANSI/CAGI ADF 100, *Refrigerated Compressed Air Dryers - Methods for Testing and Rating*.

For inlet air temperatures, apply the following correction factors to rated capacity:

- 90°F inlet air 1.20
- 100°F inlet air 1.00
- 110°F inlet air 0.80
- 120°F inlet air 0.70

For ambient air temperatures, apply the following correction factors to rated capacity:

- 80°F ambient air 1.10
- 90°F ambient air 1.05
- 100°F ambient air 1.00
- 110°F ambient air 0.95

For inlet air pressures, apply the following correction factors to rated capacity:

- 50 PSIG 0.85
- 100 PSIG 1.00
- 125 PSIG 1.05
- 150 PSIG 1.10

Water-cooled capacities are rated on 85°F inlet water. For 80°F water, apply a factor of 1.03; for 90°F water, apply 0.97.

BD & D Series Standard Equipment:

- Power On Light
- High Suction Temperature Light
- On/Off Switch
- Compressor Motor Thermal Overload Protection
- Crankcase Heater
- High/Low Refrigerant Pressure Control
- Low Ambient Fan Control
- Air Inlet Temperature Gauge
- Refrigerant Analyzer Gauge (suction pressure and temperature)
- Air Outlet Pressure Gauge
- Water Regulating Valve (325 through 7500-W)
- Solenoid Drain Valve (325 through 2200)
- Zero Air Loss Drain Valve (2500 through 7500)
- Compressor Run Light (2500 through 7500)

Optional Equipment:

A large selection of optional equipment is also available as shown in the partial list below. If other equipment is required, contact the factory for complete information.

- Air Inlet Pressure, Air Outlet Temperature and Refrigerant Head Press Gauges
- Low or High Refrigerant Pressure Alarm Light
- NEMA 4 and NEMA 12 Wiring (excludes compressor & fan motors)
- Alarm Bell (various functions)
- Hour Meter
- Compressor Run Light (325 through 2200)
- Ambient Air Filter (325 through 2200)
- Remote Condenser (2500 through 7500)
- Zero Air Loss Drain Valve (325 through 2200)

Other Specifications:

- MWP BD Series 200 psig
- MWP D Series 150 psig
- Drain connections 1/2" NPT(m)
- Refrigerant R-22

AIR TAK

Compressed Air System Products

Refrigerated Air Dryers



Compressed Air System Products That Save Energy & Improve Operations

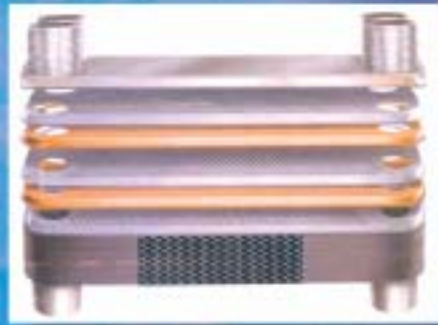
AIR TAK

Compressed Air System Products

Refrigerated Air Dryers



BD series Refrigerated Air Dryers



Exterior-Mounted Solenoid Drain Valves



Air/Tak dryers feature solenoid drain valves that are mounted outside the cabinet and prewired for easy access and serviceability. This also eliminates the time and expense of running a 115 volt outlet.

High Performance Dryers Designed for a Wide Range of Conditions

Air/Tak BD & D Series refrigerated dryers, manufactured to strict quality standards, deliver high-quality results while conserving energy. A 38°F outlet pressure dew point provides the clean, dry air necessary to operate your equipment. Choose from a wide range of models, rated for capacities from 325 to 7500 SCFM, with air-cooled or water-cooled units to meet your installation requirements for operating pressures and temperatures.

Brazed Plate Heat Exchanger

Air/Tak BD Series dryers designed for flow capacities of 325 to 2200 SCFM utilize the stainless steel brazed plate heat exchanger. The reliability is insured by low corrosion possibilities. The nondegrading foam insulation protects the heat exchanger and maintains the cooling effect.

User Friendly Structural Design and Maintenance Considerations

- ▶ Compact heat exchanger allows greater access for maintenance. Lifting slots provide for easier forklift accessibility from all sides.
- ▶ Access panels feature quick turn fasteners and handles.

Convenient and Easy To Install

Installing an **Air/Tak** dryer in your system is simple – just connect to plant air piping and electrical service. The air inlet and outlet connections are located in the same plane for ease of piping. Electrical connections are accessible at the junction box.

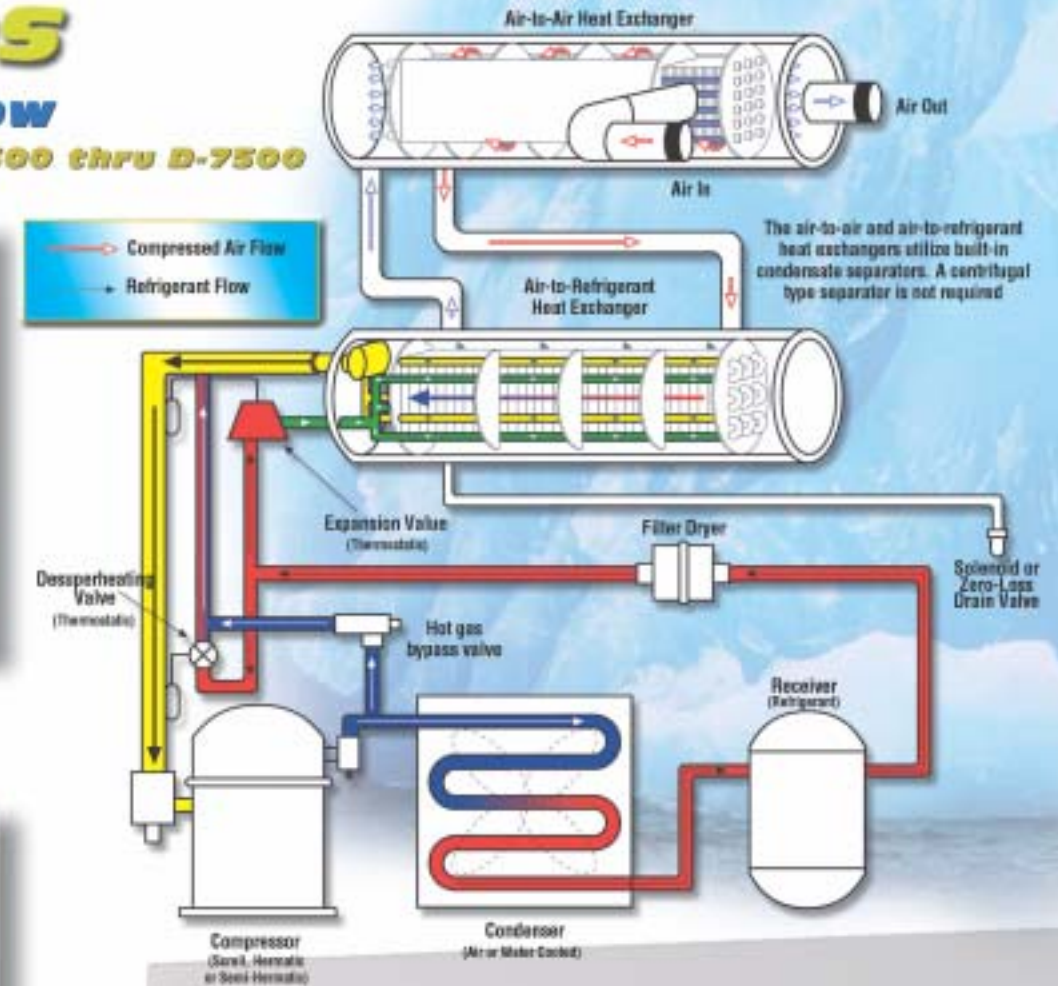
The dryer may be installed indoors in any location where the surrounding temperatures are between 50°F and 100°F. If the dryer needs to be located outdoors, a weatherproof shelter must be provided.

A water-cooled condenser is recommended for atmospheres where above-average concentrations of particulates – such as cement dust, lint or foundry sand – are present in the air. It is also recommended when the ambient temperatures exceed 110°F.

D series Typical Airflow Diagram D-2500 thru D-7500



Refrigerant controls on models 1250 & larger



Dual-Action Heat Exchanger Reduces Costs

Air/Tak D Series dryers are designed with innovative heat exchangers that unify the cooling and moisture separation processes. Their shell and aluminum finned copper tube design incorporates both primary and secondary heat transfer surfaces. This design eliminates the need and expense of separators and cold coalescers while minimizing pressure drop...Reducing Costs of air usage and maintenance.

5-Year Warranty Ensures Lasting Satisfaction

The dependability of the **Air/Tak** BD and D Series dryers are backed by a two year product warranty and a 5-year warranty on the heat exchangers. (See details under Warranty and Guidelines.)

We Specialize in Custom Orders

For special engineering requirements such as low or high pressure, high temperature and larger capacity applications, please contact our factory. Knowledgeable **Air/Tak** engineering and sales personnel are available to discuss your specific needs for refrigerated air dryers.