



WD CABINET SERIES DEHUMIDIFYING DRYERS 90-225 CFM (150-380 m³/hr)

The WD Series desiccant dryers create super-dry, hot air. This dry air stream moves through the hygroscopic materials and efficiently removes moisture. The saturated air passes again through the desiccant, releasing moisture to the desiccant. The closed-loop system dries and reheats the airstream.

WD Series dryers are available with numerous options. AEC also provides a complete line of drying hoppers with capacities from 0.40 to 425 cu. ft. (11 to 12,035 liter)



WD Series Dryer

STANDARD FEATURES

- Regenerative-type process and regeneration blowers
- Cartridge-type process return and regeneration air filters
- Compressed air-operated cast aluminum valves
- NEMA 12 control enclosure
- Low compressed air supply alarm
- Type 4A desiccant
- Casters
- Two 12-foot (3.66 m) lengths of flexible high-temperature hose
- LED readout of set point and process temperatures
- Off-the-shelf PID temperature controller
- Graphic display with indicator lights
- Mercury process heater contactor(s)
- Branch fusing
- 460/3/60 supply voltage
- Three-year temperature controller warranty

OPTIONAL FEATURES

- 208 or 230/3/60; 380, 400 or 415/3/50, 575/3/60 (de-rate dryer airflow cfm by 5/6th for 50 hz voltages)
- Dewpoint meter with dirty filter indicator
- Dewpoint bed switching
- Non-fused disconnect switch with door-mounted handle
- NEMA 12 window kit
- 7 day timer
- External communication: SPI protocol dual ports, or NX protocols types RS-232C/422/485 single port
- 13X molecular sieve
- 12 ft. insulated process hose
- Audible/visual alarm for high temperature and low compressed air
- Heater burnout indicator (consult factory for lead time)
- High temperature process air return filter (consult factory)
- High temperature process air delivery filter with canister (consult factory)

SPECIFICATIONS

	WD 90	WD 100	WD 150	WD 225
Process air flow, cfm (m ³ /hr)	90 (150)	100 (170)	150 (250)	225 (380)
Hose conn. dia., in. (mm)	2.5 (63.5)	2 (50.8)	2.5 (63.5)	4 (101.6)
Temp. range, °F (°C) ¹	140-400 (60-204)	185-400 (85-204) ²	160-400 (71-204)	160-400 (71-204)
FLA (@460/3/60)	20	23	34	45
Process blower, hp (kW)	1 (.75)	4 (3)	4 (3)	5 (3.75)
Regen. blower, hp (kW)	0.25 (0.19)	0.25 (0.19)	0.33 (0.25)	0.33 (0.25)
Length, in. (cm)	27 (69)	27 (69)	37 (79)	37 (79)
Width, in. (cm)	27 (69)	27 (69)	37 (79)	37 (79)
Height, in. (cm)	68 (173)	68 (173)	79 (200)	87 (220)
Shipping weight, lbs. (kg)	440 (200)	475 (216)	750 (341)	850 (386)

¹ After-cooler required above 250°F (121°C)

² WD100 operation below 185°F (85°C) requires a pre-cooler

AFTER-COOLERS AND PRE-COOLERS

After-coolers are used in high-temperature drying applications (process temperatures above 250°F [121°C]) as well as with materials that emit volatiles. After-coolers are designed to reduce return air from 250°F to 150°F (121°C to 66°C); incoming water rises from 85°F to 95°F (29°C to 35°C).

AFT30/100 through AFT225 after-cooler models include aluminum housing, copper tube heat exchanger, and flexible hose and clamps.

Pre-coolers should be used in low-temperature drying applications to hold consistent process temperatures below 170°F (77°C).

	WD 90	WD 100	WD 150	WD 225
After-cooler model	AFT 30/100	AFT 30/100	AFT 150	AFT 225
Water flow, gpm (lpm)	3 (11.4)	3 (11.4)	4 (15.1)	6 (22.7)
Fitting size, in. (mm)	0.5 (12.7)	0.5 (12.7)	0.5 (12.7)	0.5 (12.7)
Diameter, in. (cm)	8 (20.3)	8 (20.3)	12 (30.5)	12 (30.5)
Height, in. (cm)	36 (91.4)	36 (91.4)	36 (91.4)	49 (124.5)
Shipping weight, lbs. (kg)	35 (16)	35 (16)	35 (16)	60 (28)

