

BOGE DA Desiccant Dryers

Ensure a continuous supply of clean, dry air!

The new modular DA series from BOGE has raised the bar for heatless desiccant dryers. You can expect removal of water vapor by lowering the pressure dew point of your compressed air stream to $-40^{\circ}\text{F}/^{\circ}\text{C}$ or $-94^{\circ}\text{F}/-70^{\circ}\text{C}$ (optional) to ensure a continuous supply of clean, dry air while achieving up to an ISO class 1 rating. Thanks to technologically advanced PLC controls and reliable high performance valves, the DA series provides low pressure drop and consistent dew point performance designed for even the most demanding applications.

High tensile aluminum columns are alocrom protected then externally powder coated to provide maximum protection for corrosive environments.

**ENERGY-
SAVING-
OPTION**



Fits through a standard doorway

Easy to install and ready to use, the compact modular design allows installation in spaces too small for a traditional twin tower dryer. Models D1A to D7A include mounting brackets for either floor or wall mounting (optional on models D10A to DA 55A).

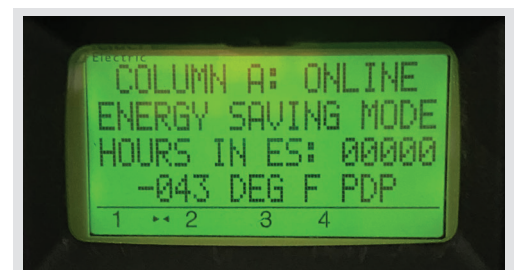
Flexibility and simplicity are built right in

Easy to replace patented combined filter and snowstorm filled desiccant cartridges make maintenance a breeze on models D1A to D55A. A built inlet water separator (models D1A to DAA) and built in outlet filtration on all models eliminates additional cost, pressure drop and maintenance associated with a separate after filter. Models D212A to D1110A constructed of high density snowstorm filled desiccant columns provide maximum adsorption capacity and include a built in after filter to ensure reliable downstream air quality.



Energy-saving option

With this option, a dew point sensor is incorporated into the dryer providing the ultimate in energy and power savings. Outlet dew point is constantly monitored allowing cycle time to be adjusted depending on the actual moisture load saving valuable purge air. Depending on conditions, dryers with ES option can be in energy savings mode up to 50% of the time. By reducing valve actuation and increasing service life, this option includes an extended 5-year valve warranty.



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An overview of the new BOGE DA desiccant dryers

| BOGE Type | Electrical (V/Ph/Hz) | Flow capacity ⁽¹⁾ | | Max. pressure ⁽²⁾ | | Weight | | Dimensions W x D x H (inch) | Compressed air connection ⁽³⁾ NPT (F) |
|-----------|-------------------------|------------------------------|---------------------|------------------------------|-----|--------|-----|--------------------------------|---|
| | | cfm | m ³ /min | psi | bar | lbs | kg | | |
| D1A | 115/1/60 | 3 | 5.1 | 232 | 16 | 20 | 9 | 10 x 7 x 18 | 3/8" |
| D2A | 115/1/60 | 5 | 8.5 | 232 | 16 | 20 | 9 | 10 x 7 x 18 | 3/8" |
| D3A | 115/1/60 | 10 | 17 | 232 | 16 | 30 | 14 | 10 x 7 x 26 | 3/8" |
| D5A | 115/1/60 | 15 | 26 | 232 | 16 | 41 | 19 | 10 x 7 x 35 | 3/8" |
| D7A | 115/1/60 | 24 | 41 | 232 | 16 | 56 | 25 | 10 x 7 x 47 | 3/8" |
| D10A | 115/1/60 | 34 | 58 | 232 | 16 | 104 | 47 | 17 x 11 x 29 | 1" |
| D13A | 115/1/60 | 41 | 70 | 232 | 16 | 104 | 47 | 17 x 11 x 29 | 1" |
| D16A | 115/1/60 | 53 | 90 | 232 | 16 | 128 | 58 | 17 x 11 x 36 | 1" |
| D20A | 115/1/60 | 66 | 112 | 232 | 16 | 128 | 58 | 17 x 11 x 36 | 1" |
| D28A | 115/1/60 | 88 | 150 | 232 | 16 | 155 | 70 | 17 x 11 x 43 | 1" |
| D33A | 115/1/60 | 106 | 180 | 232 | 16 | 182 | 83 | 17 x 11 x 49 | 1" |
| D40A | 115/1/60 | 132 | 224 | 232 | 16 | 210 | 95 | 17 x 11 x 59 | 1" |
| D55A | 115/1/60 | 177 | 301 | 232 | 16 | 259 | 117 | 17 x 11 x 73 | 1" |
| D212A | 115/1/60 | 212 | 360 | 145 | 10 | 264 | 120 | 16 x 24 x 52 | 2" |
| D276A | 115/1/60 | 276 | 469 | 145 | 10 | 493 | 224 | 16 x 24 x 61 | 2" |
| D400A | 115/1/60 | 400 | 680 | 145 | 10 | 575 | 261 | 16 x 24 x 74 | 2" |
| D560A | 115/1/60 | 560 | 951 | 145 | 10 | 756 | 343 | 16 x 31 x 74 | 2" |
| D750A | 115/1/60 | 750 | 1274 | 145 | 10 | 936 | 425 | 16 x 38 x 74 | 2 1/2" |
| D828A | 115/1/60 | 828 | 1407 | 145 | 10 | 1036 | 470 | 16 x 51 x 61 | 2 1/2" |
| D1110A | 115/1/60 | 1110 | 1886 | 145 | 10 | 1117 | 507 | 16 x 51 x 74 | 2 1/2" |

Specifications

| | Standard | Optional |
|---|------------------------------|-----------------------|
| Maximum particle size (ISO class) ⁽⁵⁾ | class 2 (1 micron) | class 1 (0.01 micron) |
| Maximum water content (ISO class) ⁽⁵⁾ | class 2 (-40°F) | class 1 (-94°F pdp) |
| Minimum / maximum operating pressure range ⁽²⁾ | 58 psig / 232 psig | |
| Recommended operating temperature range | 34°F to 100°F | |
| Design operating temperature range | 34°F to 122°F | |
| Power supply requirements | 100 to 240 VAC / 50 or 60 Hz | 24 VDC |

Conversion factors ⁽⁷⁾

| Working pressure | psi | 60 | 75 | 90 | 100 | 115 | 130 | 145 | 160 | 175 | 190 | 205 | 232 |
|------------------------------------|-----|------|------|------|------|------|------|------|------|------|------|------|------|
| nominal airflow correction factors | | 0.63 | 0.75 | 0.88 | 1.00 | 1.13 | 1.25 | 1.38 | 1.50 | 1.63 | 1.75 | 1.88 | 2.13 |
| Ambient temperature | F° | 75 | 100 | 104 | 113 | 122 | | | | | | | |
| nominal airflow correction factors | | 1.00 | 1.00 | 0.97 | 0.88 | 0.73 | | | | | | | |

(1) At inlet conditions of 100 psig and 100°F and -40°F outlet pressure dew point. For all other conditions refer to the correction factors above.

(2) Maximum pressures for USA and Canada

- D1A to D7A are 232 psig (MAWP) as standard for USA; CRN certified up to 101 psig (MAWP) for Canada
- D10A to D55A are 232 psig (MAWP) as standard for USA; CRN certified up to 232 psig (MAWP) for Canada
- D212A to D1110A are 145 psig (MAWP) as standard (optional 232 psig); CRN certified up to 210 psig (MAWP) for Canada

(3) D1A to D7A have push to connect fittings on the inlet and outlet. All other models have NPT(F) threaded connections.

(4) Dryer includes a separate M01 grade pre filter (shipped loose) and a built in 1 micron after filter

(5) Per ISO 8573.1:2010 (E)

(6) With separate M01 grade after filter

(7) To be used as a rough guide only. All applications should be confirmed by Boge.

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