

# DHP 300-3,200 SCFM

| Model    | Inlet Flow<br>@100<br>psig<br>100° F<br>scfm | Heater<br>Rated<br>Output<br>kW | Average<br>kW<br>Standard<br>Controls | Dimensions |    |     | Shipping<br>Weight<br>lbs.** | Prefilter<br>Connections<br>Inches | FIL Prefilter<br>Grade "E" | FHT<br>Afterfilter | Replacement<br>Desiccant<br>(lb) |
|----------|--|---------------------------------|---------------------------------------|------------|----|-----|------------------------------|------------------------------------|----------------------------|--------------------|----------------------------------|
|          |  |                                 |                                       | Inches     |    |     |                              |                                    |                            |                    |                                  |
|          |  |                                 |                                       | H          | W  | D   |                              |                                    |                            |                    |                                  |
| DHP 300  | 300  | 4.5                             | 2.00                                  | 98         | 48 | 59  | 1400                         | 1½" NPT                            | FIL24E21DG                 | FHT400             | 420                              |
| DHP 400  | 400  | 6.0                             | 2.67                                  | 105        | 53 | 67  | 1800                         | 1½" NPT                            | FIL26E23DG                 | FHT400             | 708                              |
| DHP 500  | 500  | 6.0                             | 3.34                                  | 105        | 53 | 70  | 1800                         | 2" NPT                             | FIL28E25DG                 | FHT600             | 708                              |
| DHP 600  | 600  | 8.0                             | 4.01                                  | 108        | 55 | 71  | 2000                         | 2" NPT                             | FIL30E25DG                 | FHT600             | 906                              |
| DHP 750  | 750  | 10.0                            | 5.01                                  | 114        | 60 | 87  | 2400                         | 3" FLG                             | FIL30E25DG                 | FHT1200            | 1180                             |
| DHP 900  | 900  | 12.0                            | 6.01                                  | 114        | 60 | 87  | 2400                         | 3" FLG                             | FIL34E27DG                 | FHT1200            | 1180                             |
| DHP 1050 | 1050   | 14.0                            | 7.01                                  | 113        | 64 | 84  | 2900                         | 3" FLG                             | FIL36E27DG                 | FHT1200            | 1420                             |
| DHP 1300 | 1300   | 16.0                            | 8.68                                  | 118        | 66 | 85  | 3400                         | 3" FLG                             | FIL38E27DG                 | FHT1800            | 1846                             |
| DHP 1500 | 1500   | 19.0                            | 10.00                                 | 116        | 88 | 97  | 5100                         | 3" FLG                             | FIL38E27DG                 | FHT1800            | 2518                             |
| DHP 1800 | 1800   | 23.0                            | 12.00                                 | 116        | 88 | 97  | 5100                         | 3" FLG                             | FIL38E27DG                 | FHT1800            | 2518                             |
| DHP 2200 | 2200   | 27.5                            | 14.70                                 | 124        | 85 | 110 | 7800                         | 4" FLG                             | FIL40E29DG                 | FHT2400            | 3734                             |
| DHP 2600 | 2600   | 32.0                            | 17.40                                 | 124        | 85 | 110 | 7800                         | 4" FLG                             | FIL42E29DG                 | FHT3000            | 3734                             |
| DHP 3200 | 3200   | 39.0                            | 21.40                                 | 121        | 97 | 126 | 9000                         | 6" FLG                             | FIL44E31DG                 | FHT4800            | 4754                             |

Performance data per CAGI Standard ADF 200 for Dual-Stage Regenerative Desiccant Compressed Air Dryer. Rating conditions are 100° F (37.8° C) inlet temperature, 100 psig (6.9 bar) inlet pressure, 100% relative humidity, 100° F (37.8° C) ambient temperature, and 5 psi (0.35 bar) pressure drop. \*Submit "request to quote" form for larger model quotes. \*\*Weight includes .25 inch alumina bed support

## TABLE 2

| Pressure psig<br>(kgf/cm <sup>2</sup> ) | Inlet Temperature ° F (° C) |              |              |              |               |               |               |
|---|-----------------------------|--------------|--------------|--------------|---------------|---------------|---------------|
|   | 60<br>(15.6)                | 70<br>(21.1) | 80<br>(26.7) | 90<br>(32.2) | 100<br>(37.8) | 110<br>(43.3) | 120<br>(48.9) |
| 60 (4.2)                                | 1.03                        | 1.01         | 0.99         | 0.80         | 0.58          | 0.43          | 0.32          |
| 70 (4.9)                                | 1.10                        | 1.08         | 1.07         | 0.94         | 0.68          | 0.50          | 0.37          |
| 80 (5.6)                                | 1.17                        | 1.15         | 1.14         | 1.08         | 0.79          | 0.58          | 0.43          |
| 90 (6.3)                                | 1.24                        | 1.22         | 1.20         | 1.18         | 0.89          | 0.66          | 0.49          |
| 100 (7.0)                               | 1.30                        | 1.28         | 1.26         | 1.24         | 1.00          | 0.74          | 0.55          |
| 110 (7.7)                               | 1.36                        | 1.34         | 1.32         | 1.30         | 1.11          | 0.82          | 0.61          |
| 120 (8.4)                               | 1.42                        | 1.40         | 1.38         | 1.36         | 1.22          | 0.90          | 0.67          |
| 130 (9.1)                               | 1.48                        | 1.46         | 1.44         | 1.42         | 1.33          | 0.99          | 0.74          |
| 140 (9.8)                               | 1.53                        | 1.51         | 1.49         | 1.47         | 1.44          | 1.07          | 0.80          |
| 150 (10.6)                              | 1.58                        | 1.56         | 1.54         | 1.52         | 1.50          | 1.16          | 0.87          |

### Operating Parameters

- Maximum Working Pressure 150 psig
- Minimum Operating Pressure 60 psig
- Maximum Inlet Air Temperature 120° F
- Minimum Inlet Air Temperature 40° F
- Minimum Ambient Temperature 40° F
- Maximum Ambient Temperature 120° F

### Inlet Flow

Inlet flow capacities shown in the Specifications Table have been established at an inlet pressure of 100 psig (7kgf/cm<sup>2</sup>) and a saturated inlet temperature of 100° F (38° C). To determine maximum inlet flow at other conditions, multiply the inlet flow from the table by the multiplier from Table 2 that corresponds to your operating conditions.

### Dew Point

Outlet pressure dew point at rated inlet conditions of 100 psig (7kgf/cm<sup>2</sup>) and 100° F (38° C) saturated. Dew point varies slightly at other conditions.

IPGG rated electrical enclosure

Controllers - NEMA 4/4x