

# RGD SPECIFICATIONS

| MODEL    | RATED FLOW (SCFM) | AVAILABLE VOLTAGES   | INLET/OUTLET CONNECTIONS (IN) | POWER (KW) | REFRIGERANT | DIMENSIONS (IN) |       |       | WEIGHT (LBS) |     |
|----------|-------------------|----------------------|-------------------------------|------------|-------------|-----------------|-------|-------|--------------|-----|
|          |                   |                      |                               |            |             | H               | W     | D     |              |     |
| RGD25A1  | 25                | 115/1/60             | ¾" NPT                        | 0.41       | R134a       | 22.00           | 16.00 | 15.00 | 88           |     |
| RGD35A1  | 35                |                      |                               | 0.46       |             | 22.00           | 16.00 | 15.00 | 92           |     |
| RGD50A1  | 50                |                      |                               | 0.57       |             | 22.00           | 20.00 | 20.00 | 101          |     |
| RGD75A1  | 75                |                      |                               | 0.52       |             | 23.67           | 14.28 | 32.33 | 123          |     |
| RGD100A1 | 100               |                      |                               | 0.65       |             | 23.67           | 14.28 | 32.33 | 129          |     |
| RGD125A1 | 125               | 115/1/60             | 1" NPT                        | 0.68       | R134a       | 23.67           | 14.28 | 32.33 | 135          |     |
| RGD150A1 | 150               |                      |                               | 1.11       |             | R134a           | 21.00 | 13.00 | 30.00        | 161 |
| RGD150A2 | 150               | 230/1/60             |                               | 0.91       | R-407c      | 23.67           | 14.28 | 34.69 | 152          |     |
| RGD200A2 | 200               | 230/1/60<br>460/3/60 | 2" NPT                        | 1.53       | R-407c      | 29.97           | 17.43 | 36.66 | 196          |     |
| RGD200A4 | 200               |                      | 1½" NPT                       | 1.42       | R134a       | 30.00           | 17.00 | 36.00 | 183          |     |
| RGD250A2 | 250               |                      | 2" NPT                        | 1.87       | R-407c      | 29.97           | 17.43 | 36.66 | 181          |     |
| RGD250A4 | 250               |                      | 1½" NPT                       | 1.98       | R134a       | 30.00           | 17.00 | 36.00 | 211          |     |
| RGD300A2 | 300               |                      | 2" NPT                        | 2.09       | R-407c      | 31.94           | 19.39 | 43.75 | 252          |     |
| RGD300A4 | 300               |                      | 1½" NPT                       | 2.05       | R134a       | 30.00           | 20.00 | 38.00 | 219          |     |
| RGD400A2 | 400               |                      | 2" NPT                        |            | 2.83        | R-407c          | 31.94 | 19.39 | 43.75        | 270 |
| RGD400A4 | 400               |                      |                               |            | 2.50        | R134a           | 30.00 | 21.00 | 38.00        | 232 |
| RGD500A4 | 500               |                      |                               |            | 3.18        | R407c           | 31.94 | 21.36 | 47.69        | 328 |

Maximum Inlet Air Temperature: 120°F (49°C) Maximum Operating Pressure: 250 psig (Models RGD25-50), 232 psig (Models RGD75-500).  
Above conditions tested at 100°F inlet air temperature, 100% saturated inlet air, 100 psig operating pressure and 100°F ambient air temperature.

## OPERATING CONDITIONS

| MODEL  | MAX INLET AIR PRESSURE |      | MIN INLET AIR PRESSURE |      | MAX INLET AIR TEMPERATURE |    | MIN INLET AIR TEMPERATURE |    | MAX AMBIENT AIR TEMPERATURE |    | MIN AMBIENT AIR TEMPERATURE |    |
|--------|------------------------|------|------------------------|------|---------------------------|----|---------------------------|----|-----------------------------|----|-----------------------------|----|
|        | PSIG                   | BARG | PSIG                   | BARG | °F                        | °C | °F                        | °C | °F                          | °C | °F                          | °C |
| 25-50  | 250                    | 17   | 30                     | 2    | 120                       | 49 | 40                        | 4  | 110                         | 43 | 45                          | 7  |
| 75-500 | 232                    | 16   | 10                     | 1    | 120                       | 49 | 40                        | 4  | 110                         | 43 | 45                          | 7  |

## CAPACITY CORRECTION FACTORS

To adjust the dryer capacity for non-standard conditions, use the Capacity Correction Factors (multipliers) from the tables below.

**Sizing Example:** What is the capacity of an RGD100 at 100°F inlet air temperature, 150 psig working pressure and 110°F ambient air temperature?

**Answer:** 100 scfm (rated flow from RGD specifications table) x 1.08 (correction factor for inlet air temperature, table 1) x 0.94 (correction factor for ambient air temperature, table 2) = 102 scfm

| INLET AIR PRESSURE |      | INLET AIR TEMPERATURE |            |            |            |
|--------------------|------|-----------------------|------------|------------|------------|
| PSIG               | BARG | 90°F/32°C             | 100°F/38°C | 110°F/43°C | 120°F/49°C |
| 80                 | 5.6  | 1.19                  | 0.95       | 0.77       | 0.63       |
| 100                | 6.9  | 1.25                  | 1          | 0.82       | 0.68       |
| 125                | 8.6  | 1.3                   | 1.05       | 0.86       | 0.72       |
| 150                | 10.3 | 1.34                  | 1.08       | 0.9        | 0.75       |
| 175                | 12.1 | 1.37                  | 1.11       | 0.92       | 0.78       |
| 200                | 13.8 | 1.39                  | 1.14       | 0.95       | 0.8        |
| 250                | 17.2 | 1.43                  | 1.17       | 0.98       | 0.83       |

| AMBIENT AIR TEMPERATURE | 80°F/27°C | 90°F/32°C | 100°F/38°C | 110°F/43°C |
|-------------------------|-----------|-----------|------------|------------|
| Multiplier              | 1.12      | 1.06      | 1          | 0.94       |