

# RHT Series Airdryer

## High Inlet Temperature Refrigerated Airdryer

| Model   | Air Connection | Capacity            |     | Power Supply | Installation Power (kW) | Dimension (mm) |     |      | Weight (kg) |
|---------|----------------|---------------------|-----|--------------|-------------------------|----------------|-----|------|-------------|
|         |                | m <sup>3</sup> /min | CFM |              |                         | L              | W   | H    |             |
| RHT-12  | Rc1/2"         | 1.2                 | 42  | 230/1/50     | 0.6                     | 665            | 325 | 550  | 35          |
| RHT-24  | Rc1"           | 2.4                 | 85  | 230/1/50     | 1.1                     | 815            | 475 | 600  | 70          |
| RHT-30  | Rc1"           | 3                   | 106 | 230/1/50     | 1.1                     | 815            | 475 | 600  | 75          |
| RHT-60  | Rc1-1/2"       | 6                   | 212 | 230/1/50     | 1.09                    | 750            | 690 | 1240 | 125         |
| RHT-80  | Rc1-1/2"       | 8                   | 282 | 230/1/50     | 2.3                     | 750            | 690 | 1240 | 128         |
| RHT-100 | Rc1-1/2"       | 10                  | 353 | 230/1/50     | 2.5                     | 750            | 690 | 1240 | 133         |
| RHT-120 | Rc2"           | 12                  | 424 | 230/1/50     | 2.75                    | 1000           | 820 | 1450 | 165         |
| RHT-150 | Rc2"           | 15                  | 530 | 230/1/50     | 3.3                     | 1000           | 820 | 1450 | 175         |
| RHT-200 | Rc2"           | 22                  | 777 | 380/3/50     | 5.5                     | 1000           | 820 | 1450 | 185         |

### Correction Factors

$$\text{Actual Capacity (m}^3\text{/min)} = \text{Nominal Capacity} \times F1 \times F2 \times F3$$

| Operating Pressure (F1) | Barg | 4    | 5    | 6    | 7    | 8    | 9    |
|-------------------------|------|------|------|------|------|------|------|
|                         | F1   | 0.86 | 0.92 | 0.93 | 1    | 1.04 | 1.08 |
|                         | Barg | 10   | 11   | 12   | 13   | 14   | 15   |
|                         | F1   | 1.11 | 1.15 | 1.18 | 1.22 | 1.25 | 1.28 |

| Compressed Air Inlet Temperature (F2) | °C | 50   | 55   | 60  | 65   | 70   | 75  | 80   |
|---------------------------------------|----|------|------|-----|------|------|-----|------|
|                                       | °F | 122  | 131  | 140 | 149  | 158  | 167 | 176  |
|                                       | F2 | 1.03 | 1.02 | 1   | 0.87 | 0.78 | 0.7 | 0.64 |

| Ambient Temperature (F3) | °C | 25   | 30  | 35   | 38  | 40   | 45   | 50   |
|--------------------------|----|------|-----|------|-----|------|------|------|
|                          | °F | 77   | 86  | 95   | 100 | 104  | 113  | 122  |
|                          | F3 | 1.15 | 1.1 | 1.02 | 1   | 0.89 | 0.85 | 0.61 |