# QED Series

Compressed air has been considered the fourth utility and is used in almost all industrial applications. In order for compressed air to be an effective utility, it must be free of contaminants. Contaminants include solids, liquids, and gases. Untreated compressed air presents the risk of either damaging the air system or the end use product. The most basic and potentially most harmful of these is moisture. The relative humidity (RH%) affects the moisture content contained in your compressed air. The most effective method of moisture control is by maintaining a constant RH%. The QED cycling refrigerated air dryer maintains a 30% RH in all site conditions, to ensure dry compressed air is achieved.


## Benefits of a Clean, Dry System

- Protects your equipment
- Leakage reduction
- Reduces equipment maintenance costs
- Prolongs your equipment
- Improves quality of final product
- Boosts your productivity (less downtime)

QED 2650-8500 controller shown

# QED

## Features and Benefits:

### A $R_H$ Evolution in Cycling Thermal Mass Technology

- Energy-efficient
- Simple operation
- Compact design
- Flow switch (2650 CFM and up)
- Steady RH, for corrosion control
- No antiquated glycol bath to cool
- Less leak points than glycol system
- Newest technology in decades
- Automatic adjusments based on conditions
- Zero-loss drains

### Advanced Controllers

- Remote Monitoring
- CAN communication protocol
- Voltage-free contacts for remote alarm
- Auto restart
- LAT lowest air temperature
- Ambient temperature
- Relative humidity (Rh)
- Freezing alarm

## QED TECHNICAL DATA

| Model | CFM at 100 PSIG | Refrigerant | Voltage/ Phase Hertz | Cooling | Power Consumption kW | Max PSIG | Dimensions | | | Approx. Wt. lbs. | Connections In/ Out |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | Length (in) | Width (in) | Height (in) | | |
| QED-15 | 15 | R134a | 115/1/60 | Air | 0.23 | 232 | 20 | 15 | 18 | 60 | 3/4" NPT |
| QED-20 | 20 | R134a | 115/1/60 | Air | 0.23 | 232 | 20 | 15 | 18 | 60 | 3/4" NPT |
| QED-30 | 30 | R134a | 115/1/60 | Air | 0.34 | 232 | 20 | 15 | 18 | 71 | 3/4" NPT |
| QED-40 | 40 | R134a | 115/1/60 | Air | 0.53 | 232 | 20 | 15 | 18 | 75 | 3/4" NPT |
| QED-50 | 50 | R134a | 115/1/60 | Air | 0.53 | 232 | 20 | 15 | 18 | 75 | 3/4" NPT |
| QED-65 | 65 | R134a | 115/1/60 | Air | 0.53 | 232 | 20 | 15 | 18 | 75 | 3/4" NPT |
| QED-85 | 85 | R134a | 115/1/60 | Air | 0.73 | 232 | 27 | 16 | 24 | 125 | 1" NPT |
| QED-100 | 100 | R134a | 115/1/60 | Air | 0.79 | 232 | 27 | 16 | 24 | 127 | 1" NPT |
| QED-125 | 125 | R410a | Multiple | Air | 1.03 | 232 | 31 | 20 | 27 | 177 | 1" NPT |
| QED-150 | 150 | R410a | Multiple | Air | 1.05 | 232 | 31 | 20 | 27 | 177 | 1" NPT |
| QED-200 | 200 | R410a | Multiple | Air | 1.06 | 232 | 31 | 20 | 27 | 237 | 1" NPT |
| QED-2650 | 2648 | R410a | Multiple | Air | 7.2 | 203 | 58 | 62 | 90 | 1945 | 6" Flange |
| QED-2650 | 2648 | R410a | Multiple | Water | 5.4 | 203 | 58 | 62 | 90 | 1734 | 6" Flange |
| QED-3200 | 3178 | R410a | Multiple | Air | 8.5 | 203 | 58 | 62 | 90 | 2056 | 6" Flange |
| QED-3200 | 3178 | R410a | Multiple | Water | 6.9 | 203 | 58 | 62 | 90 | 1790 | 6" Flange |
| QED-3700 | 3708 | R410a | Multiple | Air | 11.2 | 203 | 58 | 62 | 90 | 2156 | 6" Flange |
| QED-3700 | 3708 | R410a | Multiple | Water | 6.9 | 203 | 58 | 62 | 90 | 1890 | 6" Flange |
| QED-4250 | 4238 | R410a | Multiple | Air | 11.4 | 203 | 58 | 62 | 90 | 2167 | 6" Flange |
| QED-4250 | 4238 | R410a | Multiple | Water | 8.9 | 203 | 58 | 62 | 90 | 1900 | 6" Flange |

Notes: Capacity in accordance with recommended NFPA standards and CAGI standard ADF 100. Ratings based on 100°F inlet temperature, 100 PSIG inlet pressure and 100°F max ambient.

### Correction Factors

**Inlet Air Pressure Correction**

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| A | PSI | 60 | 80 | 100 | 120 | 140 | 150 | 180 | 200 |
| | Factor | 0.83 | 0.94 | 1.00 | 1.03 | 1.05 | 1.08 | 1.09 | 1.11 |

**Ambient Air Temperature Correction**

| | | | |
|---|---|---|---|
| C | Temperature °F | 100 | 110 |
| | Factor | 1.00 | 0.91 |

**Inlet Air Temperature Correction**

| | | | | |
|---|---|---|---|---|
| B | Temperature °F | 100 | 110 | 120 |
| | Factor | 1.00 | 0.84 | 0.69 |

**Example One: Calculations**

Dryer Required = CFM required / (A) x (B) x (C)
= 110 / (1.03) x (.84) x (1)
= 127 CFM dryer required

Select QED 150 for this application

## WARRANTY INFORMATION


2-year Full Coverage Warranty

Industry best 10-year Heat Exchanger Warranty




©2025 Quincy Compressor. All rights reserved. QED Series