



DuTreatSeries(DT)

**THE ADVANTAGES ARE BUILT IN:
BETTER, CLEANER AND MORE EFFICIENT COOLING SYSTEMS**

Superior economics

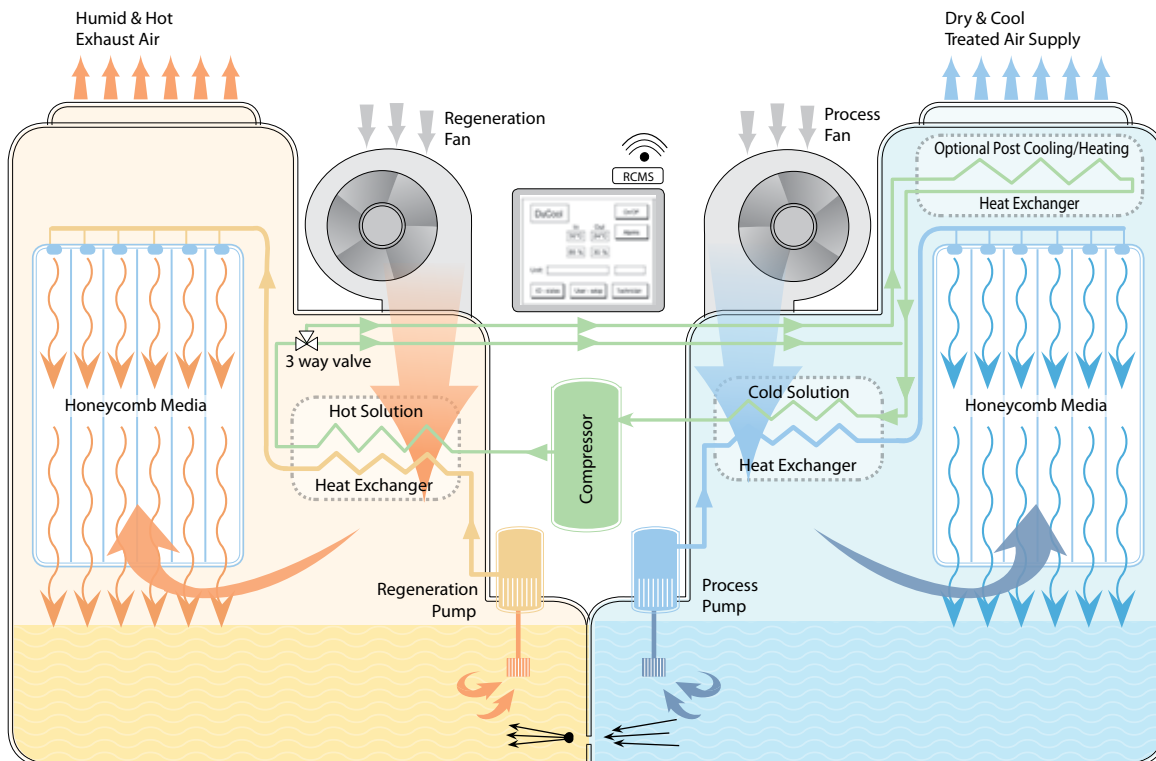
- Upfront cost is comparable to, or in many cases less expensive than, alternative equipment
- Operating costs are typically 30-40% lower than for conventional vapor-compression outdoor air systems and 55-65% lower than desiccant wheel systems

Functional benefits

- More precise control of indoor environment by controlling humidity and temperature independently
- Greater comfort due to eliminating overcooling of supply air
- Improved indoor air quality (IAQ) through removal of airborne particulates, allergens, and microorganisms
- Eliminates opportunities for mold formation by eliminating all points of condensation in the system

Easy to implement

- DuTreat systems operate on electricity alone, with no other hookups required
- Very easy to use as a direct replacement for aged or malfunctioning equipment or as an add-on to underperforming systems



Schematic Process Diagram

Technical Specifications

DuTreat (DT) Large

General Data

| Unit Model | DT – 1400/5 | | DT – 2400/7 | | DT – 3400/9 | | |
|--|---------------------------|----------------------|------------------|----------------------|------------------|----------------------|------|
| Air Flow Capacities | | | | | | | |
| Supply (Treated) Air | 1,400 CFM | | 2,400 CFM | | 3,400 CFM | | |
| Regeneration Air | 1,400 CFM | | 2,400 CFM | | 3,400 CFM | | |
| Refrigerant | R-407C | | | | | | |
| Desiccant Solution LiCl (40% Concentration) | 33 Gallons | | | | | | |
| Operation Temperature Range | From 14°F to 122°F | | | | | | |
| Operation Abs. Humid. Range | From 7 gr/lb to 210 gr/lb | | | | | | |
| Electrical System ⁽¹⁾ | 460V, 3 Ph, 60Hz | 208-230V, 3 Ph, 60Hz | 460V, 3 Ph, 60Hz | 208-230V, 3 Ph, 60Hz | 460V, 3 Ph, 60Hz | 208-230V, 3 Ph, 60Hz | |
| Line Current | Amp. | 14.5 | 33.3 | 17 | 39.3 | 22.1 | 49.5 |
| Breaker Size | Amp. | 20 | 40 | 25 | 50 | 30 | 80 |

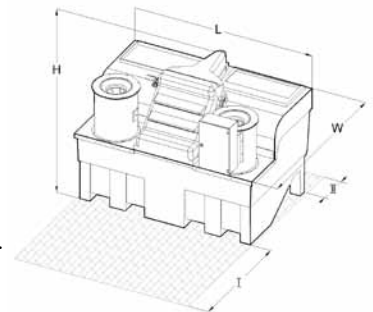
Capacity Data ^{(2) (3)}

| Compressor Size | 5 HP | | 7 HP | | 9 HP | |
|---|--------------|----------|---------------|----------|---------------|-----------|
| Sensible Cooling | 18,400 Btu/h | 5.4 kW | 31,700 Btu/h | 9.3 kW | 45,100 Btu/h | 13.2 kW |
| Latent Cooling | 47,500 Btu/h | 13.9 kW | 81,300 Btu/h | 23.8 kW | 115,100 Btu/h | 33.7 kW |
| Total Cooling | 65,900 Btu/h | 19.3 kW | 113,000 Btu/h | 33.1 kW | 160,200 Btu/h | 46.9 kW |
| | 5.50 TR | | 9.42 TR | | 13.35 TR | |
| Moisture Extraction | 5.2 Gal./h | | 8.9 Gal./h | | 12.6 Gal./h | |
| Temperature Reduction | 12.6°F | | | | | |
| Efficiency Rating ⁽⁴⁾ | 2.7 COP | 9.23 EER | 2.9 COP | 9.90 EER | 3.2 COP | 10.93 EER |

Physical Data

| Weights | Lb | Lb | Lb |
|----------------------------|-------|-------|-------|
| Net | 1,165 | 1,180 | 1,200 |
| Operating (including LiCl) | 1,500 | 1,515 | 1,535 |

| Dimensions | Inch | Clearances | Inch |
|------------|------|------------|------|
| L | 88 | I | 40 |
| W | 66 | II | 20 |
| H | 63 | | |



Notes:

- Units are available in different voltages with 50 Hz.
- A. The capacity rating above are at: 86°F; 70% R.H., absolute humidity of 133 gr/lb with R-22 Refrigerant, at 460V 3Ph, 60 Hz. For a different climate and/or hot and cold water conditions please send data to manufacturer.
B. At 208-230V/60Hz 3 phase, performance is 5% less than above data.
- Deviations for the above data (+/-) 5%.
- COP/EER ratings are calculated without the units process fan.
- Specifications are subject to changes without prior notice.