



DuTreat Series (DT)

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

Superior economics

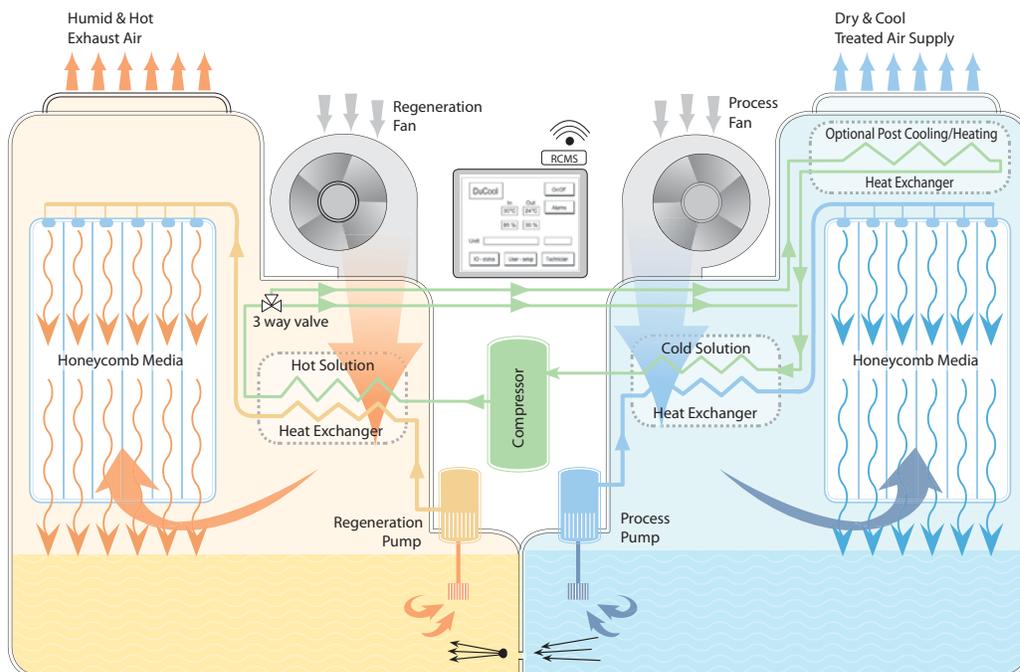
- Upfront cost is comparable to, or in many cases less expensive than, alternative equipment
- Operating costs are typically 30-40% lower than for conventional vapor-compression outdoor air systems and 55-65% lower than desiccant wheel systems

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-22 or 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

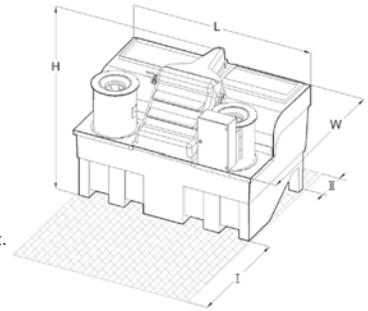
Capacity Data ^{(2) (3)}

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	11,5100 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 unit's process fan.
- Specifications are subject to changes without prior notice.