



DuTreat Series (DT)

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

Superior economics

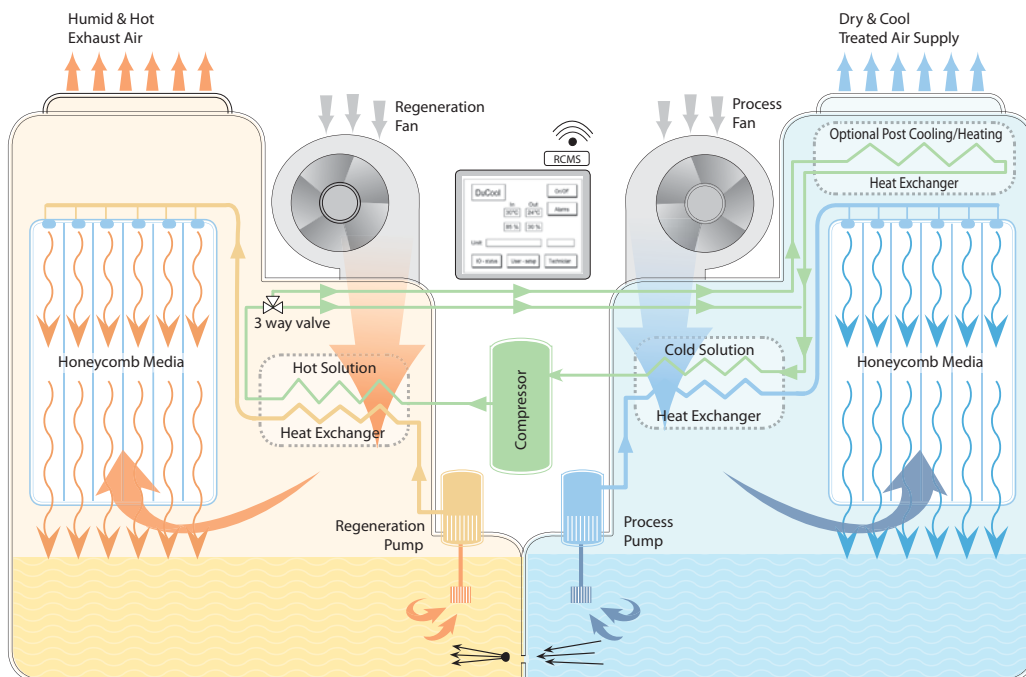
- Upfront cost is comparable to, or in many cases less expensive than, alternative equipment
- Operating costs are typically 30-40% lower than for conventional vapor-compression outdoor air systems and 55-65% lower than desiccant wheel systems

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) Small

General Data

Unit Model	DT – 500/2.5	DT – 800/4	DT – 800/6
Air Flow Capacities			
Supply (Treated) Air	500 CFM	800 CFM	800 CFM
Regeneration Air	450 CFM	700 CFM	700 CFM
Refrigerant	R-22 or R-407C		
Desiccant Solution LiCl (40% Concentration)	14.5 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, 3Ph, 60Hz	460V, 3 Ph, 60Hz	460V, 3Ph, 60Hz
Line Current Amp.	5-9	8-12	12-16
Breaker Size Amp.	16	20	25
	230V, 3 Ph, 60Hz	230V, 3 Ph, 60Hz	230V, 3 Ph, 60Hz
Line Current Amp.	8-15	13-20	20-26
Breaker Size Amp.	25	32	40

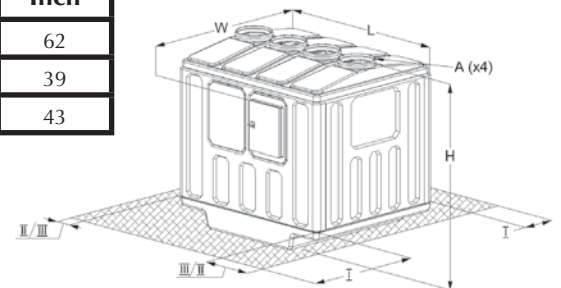
Capacity Data ^{(2) (3)}

Compressor Size	2.5 HP		4.0 HP		6.0 HP	
Sensible Cooling	9,500 Btu/h	2.8 kW	10,600 Btu/h	3.1 kW	11,900 Btu/h	3.5 kW
Latent Cooling	22,900 Btu/h	6.7 kW	33,800 Btu/h	9.9 kW	38,600 Btu/h	11.3 kW
Total Cooling	32,400 Btu/h	9.5 kW	44,400 Btu/h	13.0 kW	50,500 Btu/h	14.8 kW
	2.7 TR		3.7 TR		4.2 TR	
Moisture Extraction	2.51 Gal./h		3.70 Gal./h		4.44 Gal./h	
Temperature Reduction	18.0 °F		12.6 °F		14.4 °F	
Efficiency Rating ⁽⁴⁾	2.7 COP	9.2 EER	2.5 COP	8.5 EER	2.1 COP	8.5 EER

Physical Data

Weights	Lb	Lb	Lb
Net	507	529	595
Operating (including LiCl)	705	727	793

Clearances	Inch	Dimensions	Inch		
			I	II	III
I	40	L	45	45	62
II	20	W	39	39	39
III	4	H	43	43	43



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
B. DT 800/4 @ 208-230V/60Hz, performance is 5% less than above data.
- Deviations for the above data (+/-) 5%.
- Unit Consumption and COP/EER ratings are calculated without the unit's process fan.
- Specifications are subject to changes without prior notice.