



# DuTreatSeries(DT)

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

### Superior economics

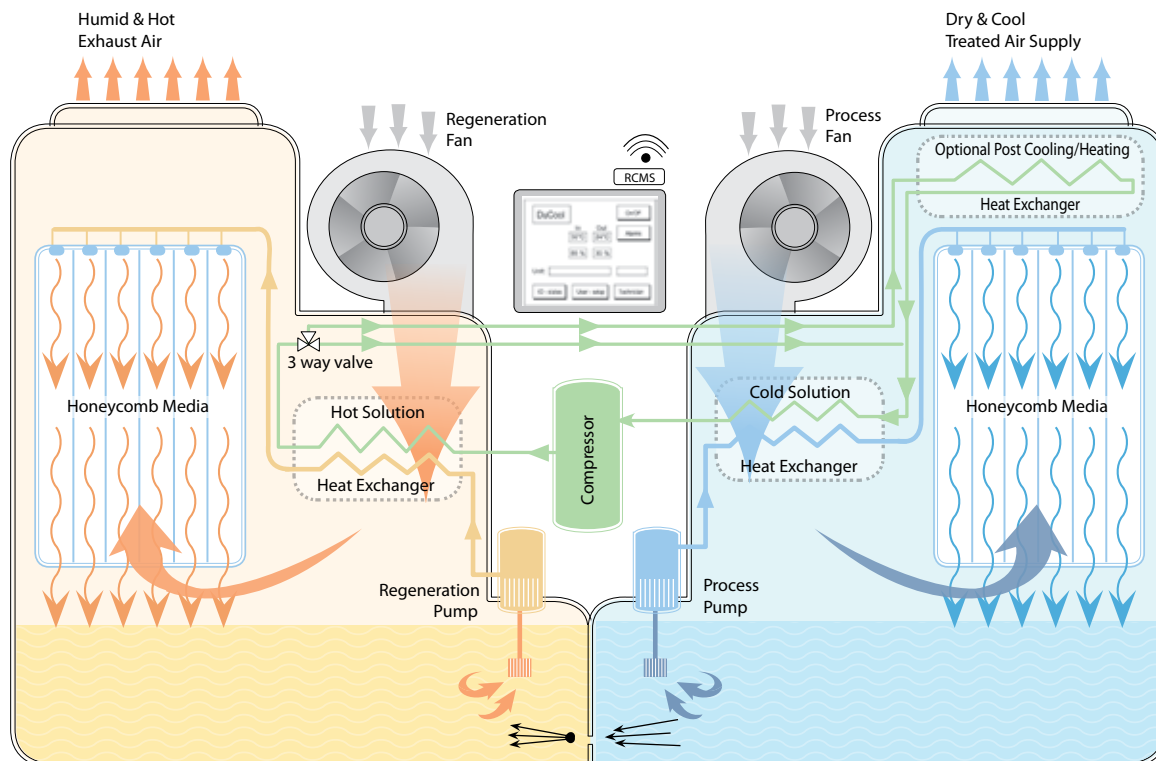
- Upfront cost is comparable to, or in many cases less expensive than, alternative equipment
- Operating costs are typically 20%-50% lower than for conventional vapor-compression outdoor air systems and 30%-60% lower than desiccant wheel systems

### 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
<b>Air Flow Capacities</b>			
Supply (Treated) Air	500 CFM	800 CFM	800 CFM
Regeneration Air	450 CFM	700 CFM	700 CFM
<b>Refrigerant</b>	R-407C		
<b>Desiccant Solution LiCl (40% Concentration)</b>	14.5 Gallons		
<b>Operation Temperature Range</b>	From 14 °F to 122 °F		
<b>Operation Abs. Humid. Range</b>	From 7 gr/lb to 210 gr/lb		
<b>Electrical System <sup>(1)</sup></b>	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
	208V-230V, 3 Ph, 60Hz	208V-230V, 3 Ph, 60Hz	208V-230V, 3 Ph, 60Hz
Line Current	Amp. 8-15	13-20	20-26
Breaker Size	Amp. 25	32	40

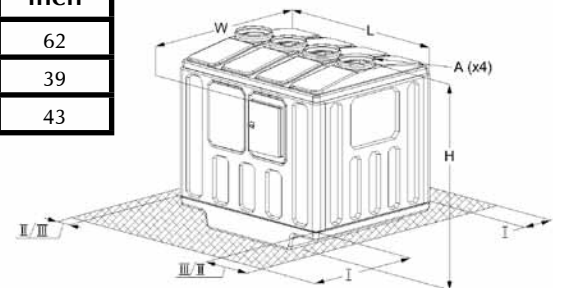
### Capacity Data <sup>(2) (3)</sup>

Compressor Size	2.5 HP		4.0 HP		6.0 HP	
<b>Sensible Cooling</b>	9,500 Btu/h	2.8 kW	10,600 Btu/h	3.1 kW	11,900 Btu/h	3.5 kW
<b>Latent Cooling</b>	22,900 Btu/h	6.7 kW	33,800 Btu/h	9.9 kW	38,600 Btu/h	11.3 kW
<b>Total Cooling</b>	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	
<b>Moisture Extraction</b>	2.51 Gal./h		3.70 Gal./h		4.44 Gal./h	
<b>Temperature Reduction</b>	18.0 °F		12.6 °F		14.4 °F	
<b>Efficiency Rating <sup>(4)</sup></b>	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	Inch	Inch
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-407C 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.