



DuTreat Narrow (DTN)

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

Superior economics

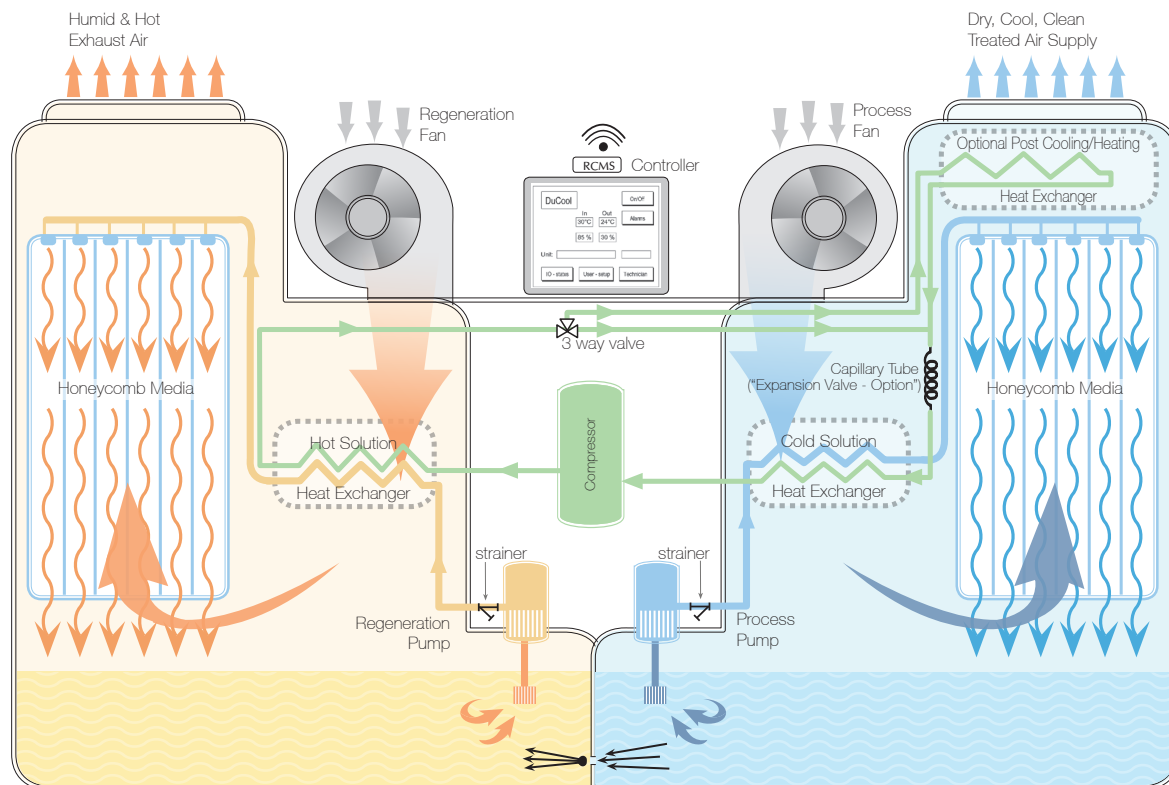
- Upfront cost is comparable to, or in many cases less expensive than, alternative equipment
- Operating costs are typically 20%-50% lower than for conventional vapor-compression outdoor air systems and 30%-60% lower than desiccant wheel systems

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

DuTreat Narrow (DTN) Technical Specifications

General Data

Unit Model	DT – 500/2.5		DT – 500/4		DT – 500/6
Air Flow Capacities					
Supply (Treated) Air	470 CFM		470 CFM		470 CFM
Regeneration Air	410 CFM		410 CFM		410 CFM
Refrigerant	R-407C				
Desiccant Solution LiCl (40% Concentration)	13 Gallons				
Operation Temperature Range	From 14 °F to 125 °F				
Operation Abs. Humid. Range	From 7 gr/lb to 210 gr/lb				
Unit Model	DT – 500/2.5		DT – 500/4		DT – 500/6
Electrical System	208 - 230 V 1Ph, 60 Hz		208 - 230 V 1Ph, 60 Hz	208 - 230 V 3Ph, 60 Hz	460 V 3Ph, 60 Hz
Line Current (Amp)	22		33	19	14
Breaker Size (Amp)	25		40	25	20

Capacity Data ⁽¹⁾

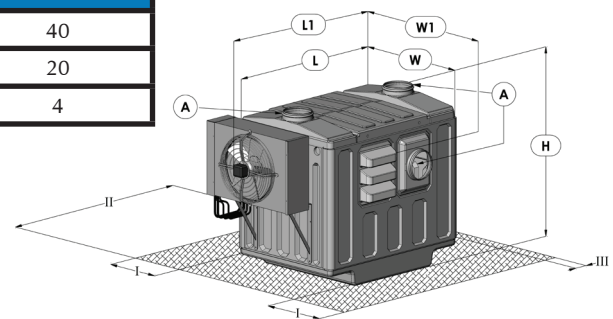
Compressor Size	2.5 HP	4.0 HP	6.0 HP
Sensible Cooling	7,340 Btu/h	9,100 Btu/h	11,000 Btu/h
Latent Cooling	20,400 Btu/h	24,000 Btu/h	28,600 Btu/h
Total Cooling	27,740 Btu/h	33,100 Btu/h	39,600 Btu/h
	2.30 TR	2.75 TR	3.30 TR
Moisture Extraction	2.3 Gal./h	2.7 Gal./h	3.2 Gal./h
Δ Temperature Reduction	16°F	20°F	24°F

Physical Data

Unit Model	DT – 500/2.5	DT – 500/4	DT – 500/6
Compressor Size	2.5 HP	4 HP	6 HP
Weights			
Net	495 lb.	505 lb.	525 lb.
Operating	640 lb	650 lb.	670 lb.

Dimensions	Inch
Length (L)	46
Length (L1)	62
Width (W)	33
Width (W1)	40
Height (H)	44
Duct Connection (A)	8 (Round)

Clearances	Inch
I	40
II	20
III	4



Notes:

- 1) The capacity ratings are at: 86°F, 70% R.H.
- 2) Deviations for the data are (+/-) 5 %.
- 3) Specifications are subject to change without prior notice.