DTS 34X1 | COOLING UNITS

15000 - 20000 Btu/h

The DTS 34X1 series cooling units have the highest power to cooling ratio available on the market. These units are ideal for high heat loads, especially high horsepower drive enclosures. Available in 3 models; DTS 3441 (NEMA Type 12) for indoor use, DTS 3461 (NEMA Type 3R/4) designed for outdoor use, and the stainless steel DTS 3481 (NEMA Type 4/4x) designed for washdown applications.

Closed Loop Design
Designed to isolate the external ambient air from the internally conditioned air eliminating the risk of contaminants entering the cabinet.

Dual Condenser Fans
Offer partial redundancy in a large capacity to size ratio. Micro channel condenser improves efficiency and durability.

Phase Protection
Three-phase 400/460 VAC powered units are protected from phase mis-wiring.

Pluggable power connection
Easily made without opening the chassis.

Easy Access Control Panel
Electrical controls are easily accessible with the flip down access panel.

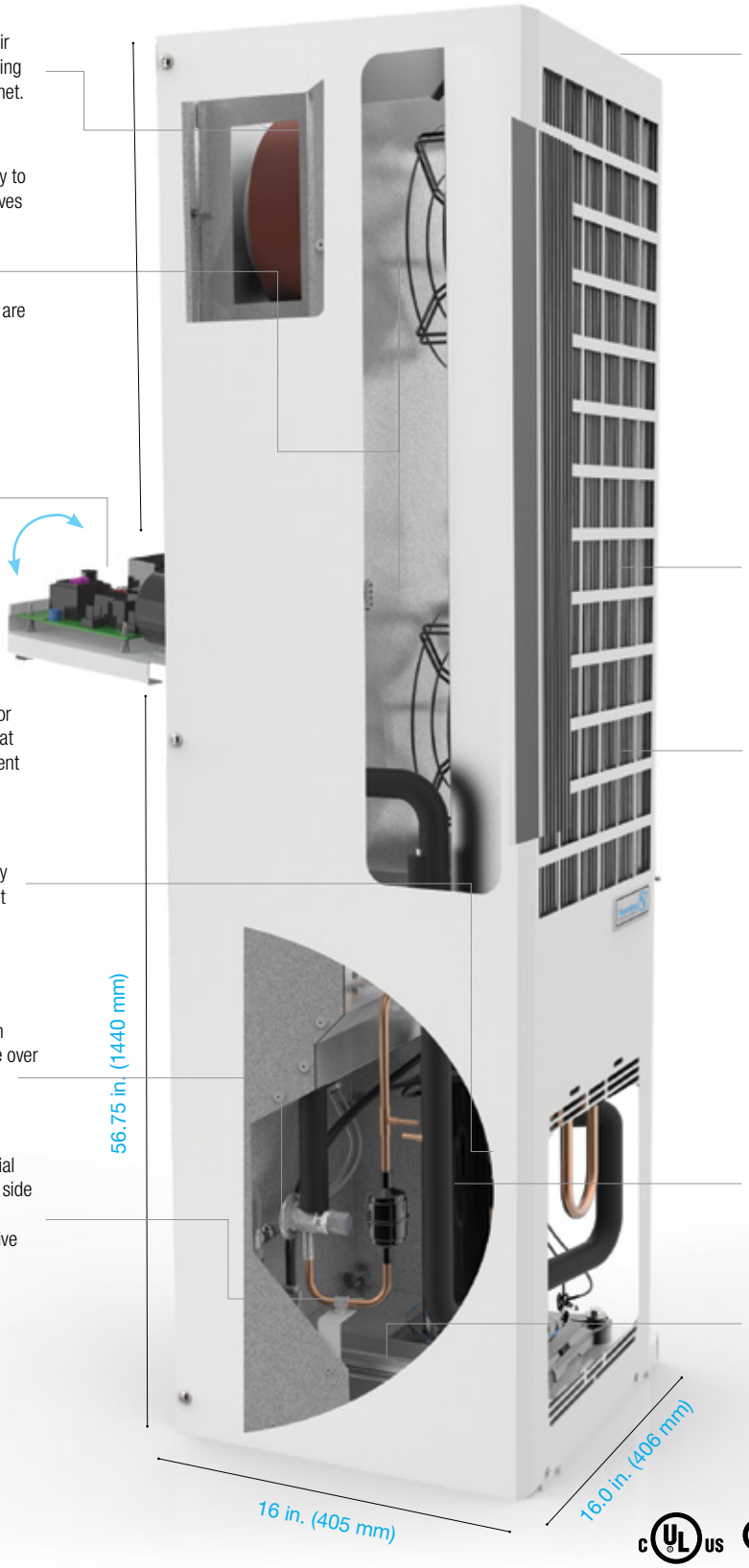
High Ambient Performance
The DTS 3000 Series Cooling Units were designed utilizing high temperature compressors and larger condensers. Both the indoor NEMA Type 12 units and outdoor units perform very well in environments that require cooling where the maximum ambient temperature is 131° F.

Pressure Overload Protection
High pressure cutout switch ensures safety by shutting off the compressor in the event of excessive pressure appearing in the refrigeration circuit.

Thermal Expansion Valve
Regulates the flow of refrigerant based on thermal demand for efficient performance over the entire operating temperature range.

Corrosion Protection
Outdoor and washdown units have a special coating on pipes and coils on the ambient side of the unit to provide maximum protection from saltwater, sour gas, and other corrosive substances.

Extra Protection from Water
The rain hood is a standard feature for NEMA 3R, 4, and 4X units. This hood provides protection from falling water and direct water sprays.



Lifting Lug Ports
Threaded holes accommodate the installation of lifting lugs to facilitate safe installation.

Thermal Overload Protection
Compressor and fan motors are outfitted with integral temperature switches to shut down the unit in the event of excessive temperature. This increases the operating life of the compressor by preventing thermal overload trips.

Environmentally Friendly
Utilizes HFC-free R134a refrigerant versus a blended refrigerant for easier service and minimized negative impact to the environment.

Ultra Efficient Design
Our micro-channel design provides greater efficiency. With up to 40% increased heat rejection vs. standard condensers, improving the transfer of heat from the refrigerant into the ambient air.

Rugged Design
Powder coated steel or stainless steel cover designed for manufacturing environments. Easily painted to match enclosure or machine.

ERP Efficiency Certified
As a component of the Kyoto Protocol to reduce carbon monoxide emissions, the European Energy Related Products (ERP) Directive includes an efficiency rating for fans. Pfannenberg proudly utilizes components which adhere to these requirements.

Hermetically Sealed Compressor
The absence of any refrigerant fill valves eliminates leak paths. Recharging is never needed. 100% cooling capacity efficiency is ensured.

Active Condensate Management
Condensation is a natural by-product of refrigeration. The heated condensate collection pan boils this off thereby eliminating the need for drain tubes and buckets. To conserve power, this heater only activates when necessary.

For additional technical data, drawings and templates. www.pfannenbergusa.com

DTS 34X1 Series (15000 - 20000 Btu/h) Side-Mount Cooling Units

Model Number	Part Number	Voltage (VAC)	Frequency (Hz)	Power Consumption (W)	Nominal (Run) Current* @ 35A/35A °C	Fuse (maximum)** Class CC	Noise Level (according to EN ISO 3741) dB(A)	Weight (without packaging) lb (kg)
DTS 3441 Indoor Rated (NEMA Type 12)	13385036255	400/460	50/60	1979	2.5	15	<69	175 (79.2)
	13385039255	230	50/60	2360	12	15	<69	191 (86.6)
Design	**Housing:** galvanized sheet steel **Cover:** electrostatically powder coated RAL 7035 (light grey); for ANSI 61 grey use part no. ending in ...251							
DTS 3461 Outdoor Rated (NEMA Type 3R/4)	13385036355	400/460	50/60	1979	2.5	15	<69	175 (79.2)
	13385039355	230	50/60	2360	12	15	<69	191 (86.6)
Design	**Housing:** galvanized sheet steel **Cover:** electrostatically powder coated RAL 7035 (light grey); for ANSI 61 grey use part no. ending in ...351							
DTS 3481 Washdown (NEMA Type 4/4x)	13385036158	400/460	50/60	1979	2.5	15	<69	175 (79.2)
	13385039158	230	50/60	2360	12	15	<69	191 (86.6)
Design	**Housing:** galvanized sheet steel **Cover:** stainless steel 304							

Additional Data		DTS 3441	DTS 3461	DTS 3481	
Ambient Temperature Range		+ 46 … + 131 / + 8 … + 55	+ 20 … + 131 / - 4 … + 55		°F / °C
Control range (adjustable)	SC	+ 77 … + 113 / + 25 … + 45; factory setting + 95 / + 35			
Refrigerant	type	R134a			
	quantity	400			g
Condensate management		integrated condensate management system with condensate drain			
Protection system according to NEMA Type		12	3R/4	4/4X	against enclosure when properly installed
		NEMA 1 towards the surroundings when properly installed			
Accessories		For spare part kits and additional accessories visit pgs. 74-75 in this catalog			

* For the MCA (Maximum Current Ampacity) value per UL, please consult product technical datasheets available on our website

** SCCR rating - See user manual for instructions to achieve 50 kA (230V) or 200 kA (460V) SCCR Rating

For additional technical data, drawings and templates.
www.pfannenbergusa.com

Available Models:

DTS 3441 Indoor Rated (NEMA Type 12)

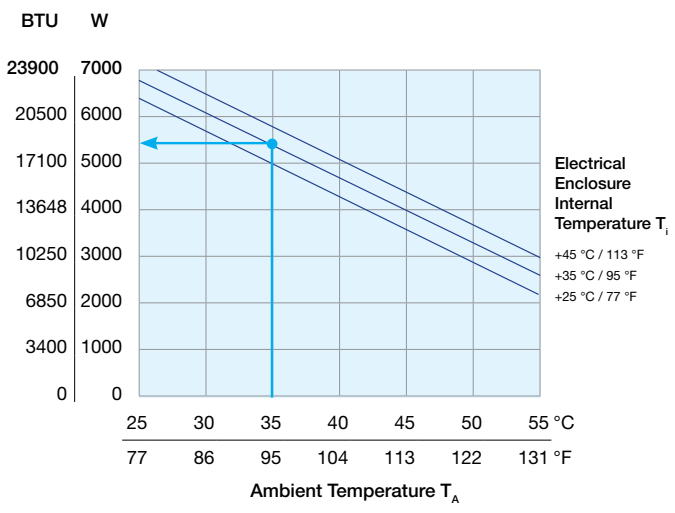
DTS 3461 Outdoor Rated (NEMA Type 3R/4)

DTS 3481 Washdown (NEMA Type 4/4x)

Cooling Capacity Performance Curve

How to use this chart

Example: @ 95 °F (ambient, X-axis), @ 95 °F (internal, diagonal lines) = 17825 Btu/h cooling capacity (Y-axis)



Note: Cooling capacity may vary between voltage and configurations.