

DTS 36X1 | COOLING UNITS

20000 - 24000 Btu/h

The DTS 36X1 series cooling units have the largest capacity at almost 2 Tons. These units are ideally suited for high temperature, high ambient environments. Available in 3 models; **DTS 3641 (NEMA Type 12)** for indoor use, **DTS 3661 (NEMA Type 3R/4)** designed for outdoor use, and the stainless steel **DTS 3681 (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.

High Cooling Capacity

The largest capacity cooling unit for high heat load requirements. High cfm fan on evaporator side for generous air movement through the enclosure.

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.

Environmentally Friendly

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

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.

High Airflow Backward Curve Impeller Fan

Provides high airflow in a long lasting, single bearing design. Outperforms typical two-bearing blowers with nearly twice the lifespan.

Lifting Lug Ports

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

Self Protected from Harsh Environments

Our unit is uniquely designed to protect itself in NEMA 3R, 4, and 4X environments. An example of this is the location of our control electronics within our dry, cool interior circuit.

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.

Rugged Design

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

Maintenance Free, Filterless Design

The wide fin spacing is less susceptible to clogging from dirt buildup which can cause the unit to work harder and hamper efficiency.

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.

65.5 in. (1665 mm)

20.5 in. (520 mm)

19 in. (485 mm)





DTS 36X1 Series (20000 - 24000 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 3641 Indoor Rated (NEMA Type 12)	13383939255	230	50/60	3142	17.1	30	<73	230 (105)
	13383936255	400/460	50/60	2275/2920	6.3	15	<73	230 (105)
Design	Housing: galvanized sheet steel Cover: electrostatically powder coated RAL 7035 (light grey); for ANSI 61 grey use part no. ending in ...251							
DTS 3661 Outdoor Rated (NEMA Type 3R/4)	13383939355	230	50/60	3142	17.1	30	<73	238 (108)
	13383936355	400/460	50/60	2275/2920	6.3	15	<73	238 (108)
Design	Housing: galvanized sheet steel Cover: electrostatically powder coated RAL 7035 (light grey); for ANSI 61 grey use part no. ending in ...351							
DTS 3681 Washdown (NEMA Type 4/4x)	13383939158	230	50/60	3142	17.1	30	<73	240 (109)
	13383936158	400/460	50/60	2275/2920	6.3	15	<73	240 (109)
Design	Housing: galvanized sheet steel Cover: stainless steel 304							
Additional Data		DTS 3641		DTS 3661		DTS 3681		
Ambient Temperature Range		+ 59 ... + 131 / + 15 ... + 55		+ 32 ... + 131 / + 0 ... + 55				°F / °C
Control range (adjustable)		SC	+ 77 ... + 113 / + 25 ... + 45; factory setting + 95 / + 35					
Refrigerant		type	R134a					
		quantity	1300					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 3641
Indoor Rated
(NEMA Type 12)



DTS 3661
Outdoor Rated
(NEMA Type 3R/4)

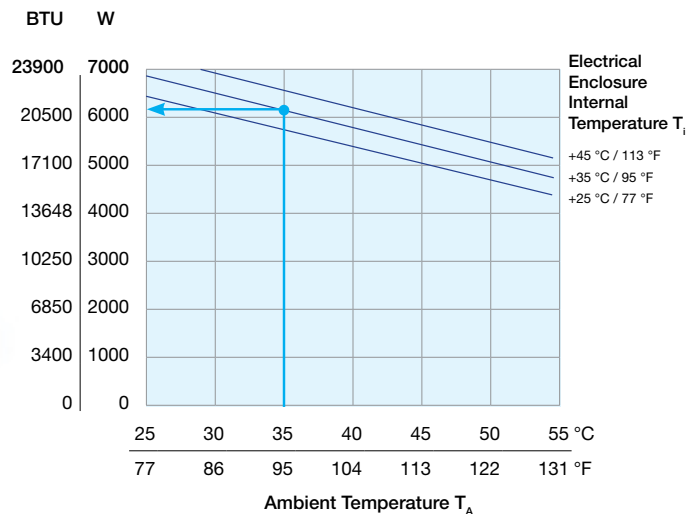


DTS 3681
Washdown
(NEMA Type 4/4x)

Cooling Capacity Performance Curve

How to use this chart

Example: @ 95 °F (ambient, X-axis), @ 95 °F (internal, diagonal lines)
= 21788 Btu/h cooling capacity (Y-axis)



Note: Cooling capacity may vary between voltage and configurations.