

DTS 30X1 | COOLING UNITS

2000 - 3000 Btu/h

The DTS 30X1 series cooling units are ideal for small enclosures and for the cooling of hot spots in larger control cabinets. These units are particularly suited for the food industry and outdoor applications. Available in 3 models; **DTS 3041 (NEMA Type 12)** for indoor use, **DTS 3061 (NEMA Type 3R/4)** designed for outdoor use, and the stainless steel **DTS 3081 (NEMA Type 4/4x)** designed for wash-down applications.

Closed Loop Design

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

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.

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.

Hermetically Sealed Compressor

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

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.

Environmentally Friendly

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

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.

Highest in Class Capacity

The compact, 10 inch width is ideal for small enclosures with a relatively small heat load. The integral power cord helps simplify installation. An integral ingress filter is provided on type 12/3R/4 versions.

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.

Optimized Condenser Designs

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

Rugged Design

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

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. High ambient options are also available to 140° F.

Easy to Maintain

Both the indoor and outdoor 30X1 cooling units include an integrated Pfannenberg PFA Exhaust Filter for simple replacement of the filter.





DTS 30X1 Series (2000 - 3000 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 3041 Indoor Rated (NEMA Type 12)	13382344255	115	60	690	6.0	15	<64	51 (23)
	13382341255	230	50/60	663	4.1	15	<64	51 (23)
	13382336255	400/460	50/60	870	1.9	15	<64	62 (28)
Design	Housing: galvanized sheet steel Cover: electrostatically powder coated RAL 7035 (light grey); for ANSI 61 grey use part no. ending in ...251							
DTS 3061 Outdoor Rated (NEMA Type 3R/4)	13382344355	115	60	690	5.2	15	<64	51 (23)
	13382341355	230	50/60	663	4.1	15	<64	51 (23)
	13382336355	400/460	50/60	870	1.9	15	<64	62 (28)
Design	Housing: galvanized sheet steel Cover: electrostatically powder coated RAL 7035 (light grey); for ANSI 61 grey use part no. ending in ...351							
DTS 3081 Washdown (NEMA Type 4/4x)	13382344300	115	60	690	5.2	15	<64	55 (25)
	13382341300	230	50/60	663	4.1	15	<64	55 (25)
	13382336158	400/460	50/60	870	1.9	15	<64	66 (30)
Design	Housing: stainless steel 304 Cover: stainless steel 304							

Additional Data		DTS 3041	DTS 3061	DTS 3081	
Ambient Temperature Range		+ 46 ... + 114 / + 8 ... + 45	+ 32 ... + 131 / 0 ... + 55		°F / °C
Control range (adjustable) SC		+ 50 ... + 104 / + 10 ... + 40; factory setting + 95 / + 35			
Refrigerant	type	R134a			
	quantity	400			g
Condensate management		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 3041
Indoor Rated
(NEMA Type 12)



DTS 3061
Outdoor Rated
(NEMA Type 3R/4)

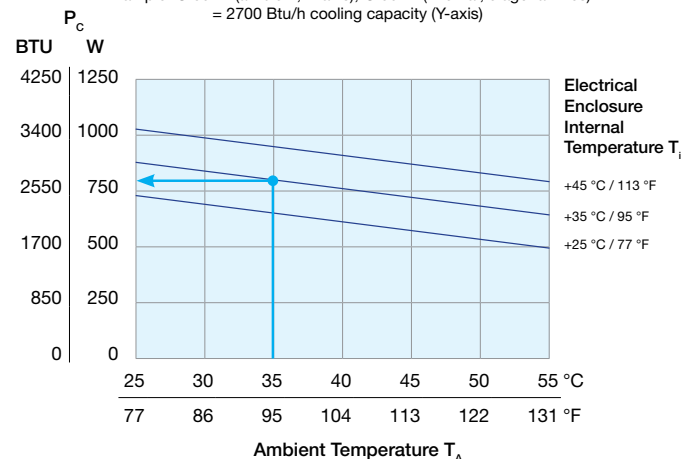


DTS 3081
Washdown
(NEMA Type 4/4x)

Cooling Capacity Performance Curve

How to use this chart

Example: @ 95 °F (ambient, X-axis), @ 95 °F (internal, diagonal lines)
= 2700 Btu/h cooling capacity (Y-axis)



Note: Cooling capacity may vary between voltage and configurations.