

DTS 31X5 | COOLING UNITS

5000 - 7000 Btu/h

Our DTS 31X5 cooling units are an ideal solution for a wide variety of applications. These units are particularly suited for compact enclosures and are available in 3 models; **DTS 3145 (NEMA Type 12)** for indoor use, **DTS 3165 (NEMA Type 3R/4)** designed for outdoor use, and the stainless steel **DTS 3185 (NEMA Type 4/4x)** designed for washdown applications. Available options include a low ambient package and enclosure heater.

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.

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.

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.

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.

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.

Rugged Design

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

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.

Maintenance Free, Filterless Design

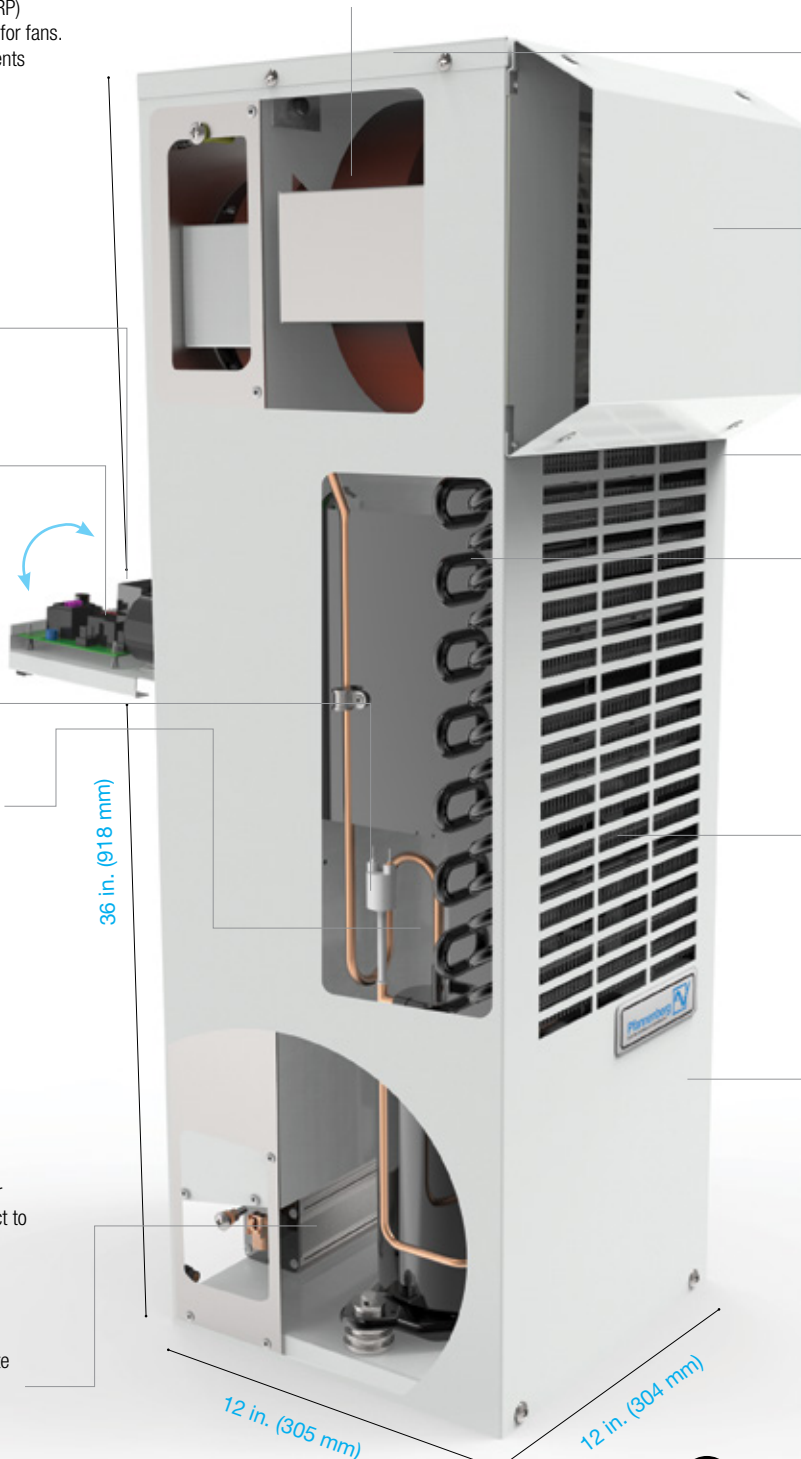
The wide fin spacing is less susceptible to clogging from dirt buildup which can cause the unit to work harder and hamper efficiency.

New Narrower Footprint

Compact design delivers high cooling capacity to enclosures as small as 12 inches (300mm) in width.

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.





DTS 31X5 Series (5000 - 7000 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 3145 Indoor Rated (NEMA Type 12)	13383644255	115	60	1000	8.6	15	<70	108 (49)
	13383639255	230	50/60	1020	4.9	15	<70	108 (49)
	13383636255	400/460	50/60	1283	1.8	15	<70	108 (49)
Design	Housing: galvanized sheet steel Cover: electrostatically powder coated RAL 7035 (light grey); for ANSI 61 grey use part no. ending in ...251							
DTS 3165 Outdoor Rated (NEMA Type 3R/4)	13383644355	115	60	1000	8.6	15	<70	108 (49)
	13383639355	230	50/60	1020	4.9	15	<70	108 (49)
	13383636355	400/460	50/60	1283	1.8	15	<70	108 (49)
Design	Housing: galvanized sheet steel Cover: electrostatically powder coated RAL 7035 (light grey); for ANSI 61 grey use part no. ending in ...351							
DTS 3185 Washdown (NEMA Type 4/4x)	13383644158	115	60	1000	8.6	15	<70	108 (49)
	13383639158	230	50/60	1020	4.9	15	<70	108 (49)
	13383636158	400/460	50/60	1283	1.8	15	<70	108 (49)
Design	Housing: galvanized sheet steel Cover: stainless steel 304							

Additional Data		DTS 3145	DTS 3165	DTS 3185	
Ambient Temperature Range		+ 59 ... + 131 / + 15 ... + 55	+ 32 ... + 131 / + 0 ... + 55		°F / °C
Control range (adjustable)		+ 77 ... + 113 / + 25 ... + 45; factory setting + 95 / + 35			
Refrigerant	type	R134a			
	quantity	750			g
Condensate management		active condensate evaporation system with safety overflow			
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.pfannenbergerusa.com

Available Models:



DTS 3145
Indoor Rated
(NEMA Type 12)



DTS 3165
Outdoor Rated
(NEMA Type 3R/4)

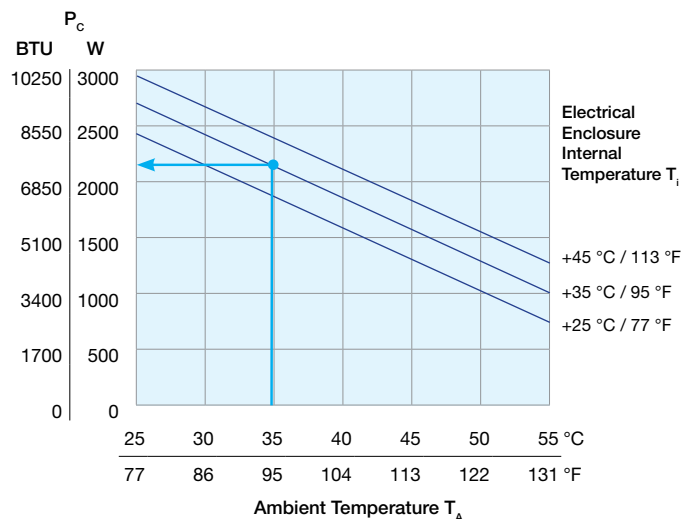


DTS 3185
Washdown
(NEMA Type 4/4x)

Cooling Capacity Performance Curve

How to use this chart

Example: @ 95 °F (ambient, X-axis), @ 95 °F (internal, diagonal lines)
= 6995 Btu/h cooling capacity (Y-axis)



Note: Cooling capacity may vary between voltage and configurations.