Pfannenberg
ELECTRO-TECHNOLOGY FOR INDUSTRY

DTS 3000, DTT 6000 & DTI 6000 Series Cooling Units

Thermal Protection for Critical Electronics

Utilize closed loop cooling in tough industrial or outdoor applications with Pfannenberg's 'service-friendly' cooling units.

Pfannenberg's **DTS 3000 Series Cooling Units** are driven to meet the demands of our North American NEMA market. These units meet the needs on indoor NEMA Type 12 applications, NEMA Type 3R/4 outdoor applications and NEMA Type 4/4x stainless steel for washdown applications.

Pfannenberg's revolutionary designed **DTT Top Mount Cooling Units** offer unique protection through our innovative, patented condensate management system. These units can be safely installed above critical components with peace of mind.

The **DTI 6000 Series** allows for European-style recessed mounting on enclosure doors and/or side panels on modular systems. These "click & fit" units reduce installation times by more than 90%.

THE TECHNOLOGY OF COOLING
Cooling with Closed Loop Cooling Units

Pfannenberg cooling units operate on the principle of the Carnot cycle. This means that the cooling unit functions as a heat pump that "pumps" the thermal energy transferred from the electronic cabinet (heat dissipated from the components) up to a higher level of temperature (the ambient temperature can reach levels as high as + 55 °C). The air inside the enclosure is cooled down by the evaporator and at the same time dehumidified.

How do I know if a cooling unit is the right product for my application?

- If the ambient temperature is greater than the target internal temperature of the enclosure, active cooling is required.
- If a NEMA Type 12 to 4x rating is required - closed loop systems can maintain the NEMA Type rating of the cabinet.

Properly sizing a cooling unit

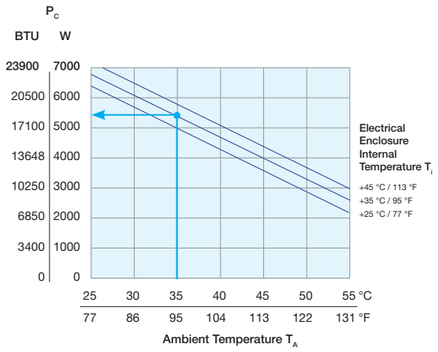
To properly size a cooling unit you must know the **required cooling capacity in Watts, mounting requirements (side, integrated or top mount) and the dimensions of the cooling unit and enclosure.**

$\{P_C = P_D - P_R\}$ $\{P_R = C \times A \times \Delta T\}$

- **P_C [Watt]:**
  Refrigeration capacity of a cooling unit.
- **P_D [Watt]:**
  Dissipation loss: Thermal power generated inside a cabinet by the dissipation loss of components.
- **P_R [Watt]:**
  Radiant heat gain/loss: Heat transfer through the skin of the enclosure (insulation factor not included).
- **C [W/m² °C]:**
  Coefficient of heat transmission.
- **A [m²]:**
  Surface area of electronics cabinet.
- **ΔT[°C]:**
  Difference in temperature between the ambient air and the air inside the electronics cabinet.

Utilizing performance curves to properly size cooling units:

Pfannenberg utilizes the DIN standard 35/35 °C when rating our cooling units. Many other companies use 50/50 °C, which provides a higher, non-usable value. Customers should use their own application temperatures to determine the proper cooling capacity of the system.



Note: Cooling capacity may vary between voltage and configurations.

Important information when utilizing cooling units:

- The refrigeration capacity should exceed the dissipation loss from the installed components by approximately 10%.
- The enclosure should be sealed to prevent the inflow of ambient air.
- Use the door contact switch to impede operation with open doors and consequent excessive accumulation of condensation.
- Use cooling units with maximum clearance between air inflow and air outflow to prevent poor circulation.
- Make sure that the air inflow and air outflow in the external circuit is not hindered, preventing proper heat exchanging at the condenser.
- When using top-mounted cooling units, make sure that components with their own fans do not expel the air directly into the cooling units cool air outflow.
- Make sure unit is level.
- Setting the temperature to the lowest setting is not the optimal solution due to the condensation issues. The value we have preset on the cooling unit is a sound compromise between cooling the inside of the enclosure and the accumulation of condensation.

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

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COOLING UNITS QUICK SELECTION CHART

Type	Cooling Capacity Btu/h	Rated Voltage	Dimensions H x W x D Inches (mm)	Approvals				Page
				UL	cUL	UR	CE	
DTS Series Indoor Side Mount NEMA Type 12 Cooling Units								
DTS 3021	900 - 1300	115 V / 230 V	15.5 (393.7) x 7 (177.8) x 7.53 (191.4)	●	●		●	38
DTS 3041	2000 - 3000	115 V / 230 V	20.15 (512) x 10 (254) x 10.8 (274)	●	●		●	40
DTS 3141	3000 - 4000	115 V / 230 V / 400/460 V	29.46 (748) x 15.55 (395) x 9.3 (237)	●	●		●	42
DTS 3141 SL	3000 - 5000	115 V / 230 V / 400/460 V	36 (914) x 12 (305) x 12 (304)	●	●		●	44
DTS 3145	5000 - 7000	115 V / 230 V / 400/460 V	36 (914) x 12 (305) x 12 (304)	●	●		●	46
DTS 3241	7000 - 8500	115 V / 230 V / 400/460 V	47.60 (1209) x 15.6 (395) x 10.6 (269)	●	●		●	48
DTS 3245	9000 - 12000	115 V / 230 V / 400/460 V	53 (1347) x 16 (406) x 11.9 (301)	●	●		●	50
DTS 3441	15000 - 20000	230 V / 400/460 V	56.75 (1440) x 16 (406) x 16 (405)	●	●		●	52
DTS 3641	20000 - 24000	230 V / 400/460 V	65.5 (1665) x 19 (485) x 20.5 (520)	●	●		●	54
DTS Series Outdoor Cooling Units - NEMA Type 3R/4								
DTS 3031	900 - 1300	115 V / 230 V	15.5 (393.7) x 7 (177.8) x 7.53 (191.4)	●	●		●	38
DTS 3061	2000 - 3000	115 V / 230 V	20.15 (512) x 10 (254) x 10.8 (274)	●	●		●	40
DTS 3161	3000 - 4000	115 V / 230 V / 400/460 V	29.46 (748) x 15.55 (395) x 11.55 (294)	●	●		●	42
DTS 3161 SL	3000 - 5000	230 V / 400/460 V	36 (914) x 12 (305) x 14.4 (366.2)	●	●		●	44
DTS 3165	5000 - 7000	115 V / 230 V / 400/460 V	36 (914) x 12 (305) x 14.5 (368.3)	●	●		●	46
DTS 3261	7000 - 8500	115 V / 230 V / 400/460 V	47.1209 (1209) x 15.55 (395) x 12.83 (326)	●	●		●	48
DTS 3265	9000 - 12000	115 V / 230 V / 400/460 V	53 (1347) x 16.2 (411) x 14.4 (365.2)	●	●		●	50
DTS 3461	15000 - 20000	230 V / 400/460 V	56.75 (1440) x 16 (406) x 16 (405)	●	●		●	52
DTS 3661	20000 - 24000	230 V / 400/460 V	65.5 (1665) x 19 (485) x 24.5 (620)	●	●		●	54
DTS Series Washdown Cooling Units - NEMA Type 4/4X								
DTS 3031 SS	900 - 1300	115 V / 230 V	15.5 (393.7) x 7 (177.8) x 7.53 (191.4)	●	●		●	38
DTS 3081	2000 - 3000	115 V / 230 V	20.15 (512) x 10 (254) x 10.8 (274)	●	●		●	40
DTS 3181	3000 - 4000	115 V / 230 V / 400/460 V	29.45 (748) x 15.55 (395) x 11.55 (294)	●	●		●	42
DTS 3181 SL	3000 - 5000	230 V / 400/460 V	36 (914) x 12 (305) x 14.4 (366.2)	●	●		●	44
DTS 3185	5000 - 7000	115 V / 230 V / 400/460 V	36 (914) x 12 (305) x 14.5 (368.3)	●	●		●	46
DTS 3281	7000 - 8500	115 V / 230 V / 400/460 V	47 (1209) x 15.55 (395) x 12.83 (326)	●	●		●	48
DTS 3285	9000 - 12000	115 V / 230 V / 400/460 V	53 (1347) x 16.2 (411) x 14.4 (365.2)	●	●		●	50
DTS 3481	15000 - 20000	230 V / 400/460 V	56.75 (1440) x 16 (406) x 19 (484.5)	●	●		●	52
DTS 3681	20000 - 24000	230 V / 400/460 V	65.5 (1665) x 19 (485) x 24.5 (620)	●	●		●	54
DTI Series Integrated/Recessed (European)								
DTI 6201 C	3000-4000	230 V / 400/460 V	37.87 (962) x 16.14 (410) x 9.57 (243)			●	●	58
DTI 6301 C	5000-6000	230 V / 400/460 V	37.87 (962) x 16.14 (410) x 9.57 (243)			●	●	58
DTI 6201	3000 - 4000	230 V / 400/460 V	60.47 (1536) x 19.09 (485) x 8.58 (218)			●	●	60
DTI 6301	5000 - 6000	230 V / 400/460 V	60.47 (1536) x 19.09 (485) x 8.58 (218)			●	●	60
DTI 6401	7000 - 8000	400/460 V	60.47 (1536) x 19.09 (485) x 10.94 (278)			●	●	62
DTI 6501	9000 - 11000	400/460 V	60.47 (1536) x 19.09 (485) x 10.94 (278)			●	●	62
DTI 6801	13000 - 16000	400/460 V	60.59 (1539) x 19.09 (485) x 14.64 (372)			●	●	64
DTT Series Top Mount NEMA 12 Cooling Units								
DTT 6101	1200 - 2000	115 V / 230 V	17.13 (435) x 23.43 (595) x 15.55 (395)			●	●	68
DTT 6201	2500 - 4000	115 V / 230 V / 400/460 V	17.13 (435) x 23.43 (595) x 15.55 (395)			●	●	68
DTT 6301	4000 - 5500	115 V / 230 V / 400/460 V	17.13 (435) x 23.43 (595) x 19.49 (495)			●	●	70
DTT 6401	5500 - 7000	115 V / 230 V / 400/460 V	17.13 (435) x 23.43 (595) x 19.49 (495)			●	●	70
DTT 6601	7000 - 10000	400/460 V	19.09 (485) x 31.30 (795) x 22.64 (575)			●	●	72
DTT 6801	12000 - 14000	400/460 V	19.09 (485) x 31.30 (795) x 22.64 (575)			●	●	72

● available

Subject to technical amendments and misprints.

DTS 3021/31/SS | COOLING UNITS

900 - 1300 Btu/h

The DTS 3021/31/SS 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 3021 (NEMA Type 12)** for indoor use, **DTS 3031 (NEMA Type 3R/4)** designed for outdoor use, and the stainless steel **DTS 3031 SS (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.

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.

Condensate Drain Port
Permits effective collection and drainage of condensation.

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.

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

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

Highest in Class Capacity
The compact, 7 inch width is ideal for small enclosures with a relatively small heat load.

c UL us CE

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

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DTS 30X1 Series (900 - 1300 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 3021 Indoor Rated (NEMA Type 12)	13383144255	115	60	243	2.1	15	<64	30 (13.6)
	13383141255	230	50/60	253	1.2	15	<64	30 (13.6)
Design	**Housing:** galvanized sheet steel **Cover:** electrostatically powder coated RAL 7035 (light grey); for ANSI 61 grey use part no. ending in ...251							
DTS 3031 Outdoor Rated (NEMA Type 3R/4)	13383144355	115	60	243	2.1	15	<64	30 (13.6)
	13383141355	230	50/60	253	1.2	15	<64	30 (13.6)
Design	**Housing:** galvanized sheet steel **Cover:** electrostatically powder coated RAL 7035 (light grey); for ANSI 61 grey use part no. ending in ...351							
DTS 3031 SS Washdown (NEMA Type 4/4x)	13383144158	115	60	243	2.1	15	<64	30 (13.6)
	13383141158	230	50/60	253	1.2	15	<64	30 (13.6)
Design	**Housing:** stainless steel 304 **Cover:** stainless steel 304							

Additional Data		DTS 3021	DTS 3031	DTS 3031 SS	
Ambient Temperature Range		+ 46 … + 114/ + 8 … + 45			°F / °C
Control range (adjustable)	**SC**	+ 50 … + 104 / + 10 … + 40; factory setting + 95 / + 35			
Refrigerant	**type**	R134a			
	quantity	145 - 150			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

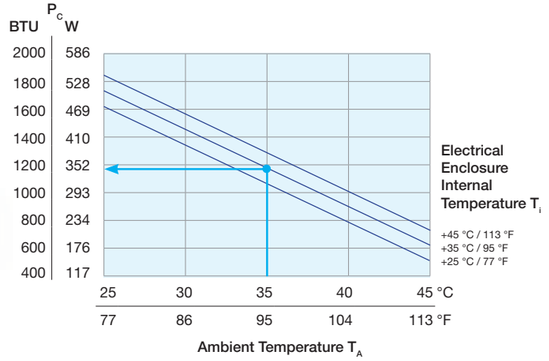
For additional technical data, drawings and templates.
www.pfannenbergusa.com

Available Models:

DTS 3021 Indoor Rated (NEMA Type 12)
DTS 3031 Outdoor Rated (NEMA Type 3R/4)
DTS 3031 SS 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) = 1194 Btu/h cooling capacity (Y-axis)



Note: Cooling capacity may vary between voltage and configurations.

Subject to technical amendments and misprints.

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.

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

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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	+ 46 … + 131 / + 8 … + 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)

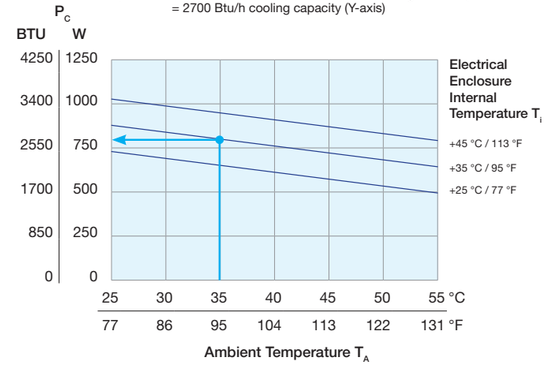
DTS 3061 Outdoor Rated (NEMA Type 3R/4)

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.

Subject to technical amendments and misprints.

DTS 31X1 | COOLING UNITS

3000 - 4000 Btu/h

The DTS 31X1 series cooling units utilize a long internal air path to capture heat above the components and provide cool air below. Available in 3 models; DTS 3141 (NEMA Type 12) for indoor use, DTS 3161 (NEMA Type 3R/4) designed for outdoor use, and the stainless steel DTS 3181 (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.

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.

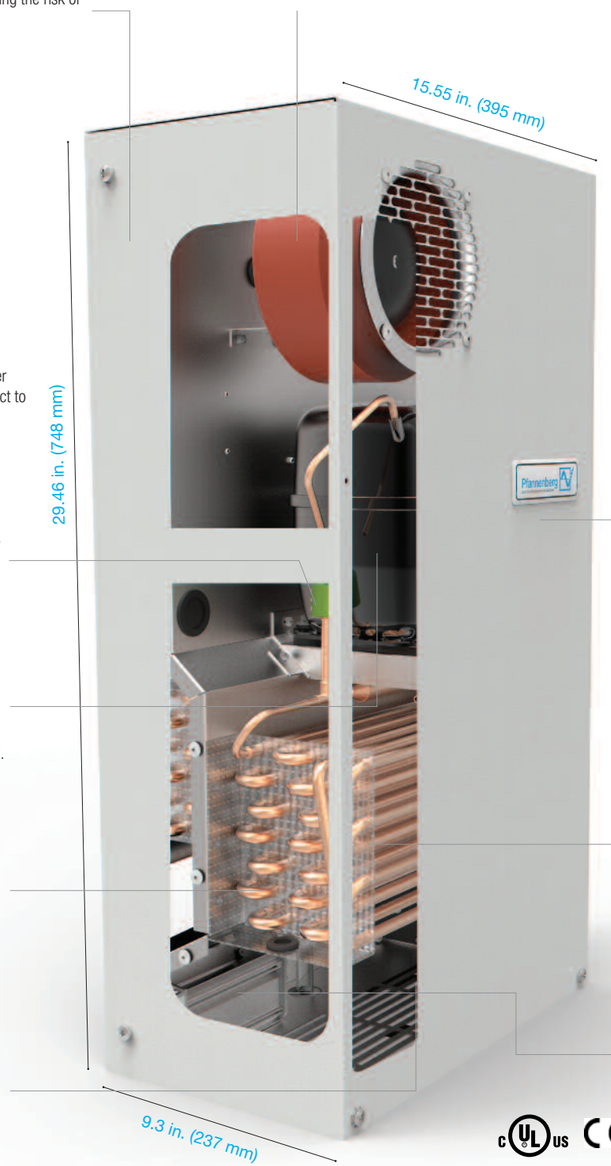
Pressure Overload Protection
High pressure cutout switch ensures safety by shutting off the compressor in the event of excessive pressure appearing in the refrigeration circuit.

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

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.

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

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.



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.

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.

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

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.

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.

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

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ELECTRO-TECHNOLOGY FOR INDUSTRY

DTS 31X1 Series (3000 - 4000 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 3141 Indoor Rated (NEMA Type 12)	13385444255	115	60	845	7.0	15	<70	84 (38)
	13385441255	230	50/60	795	4.0	15	<70	84 (38)
	13385436255	400/460	50/60	1200	2.0	15	<70	88 (40)
Design	**Housing:** galvanized sheet steel **Cover:** electrostatically powder coated RAL 7035 (light grey); for ANSI 61 grey use part no. ending in ...251							
DTS 3161 Outdoor Rated (NEMA Type 3R/4)	13385444355	115	60	845	7.0	15	<70	89 (40)
	13385441355	230	50/60	795	4.0	15	<70	89 (40)
	13385436355	400/460	50/60	1200	2.0	15	<70	92 (42)
Design	**Housing:** galvanized sheet steel **Cover:** electrostatically powder coated RAL 7035 (light grey); for ANSI 61 grey use part no. ending in ...351							
DTS 3181 Washdown (NEMA Type 4/4x)	13385444158	115	60	845	7.0	15	<70	92 (42)
	13385441158	230	50/60	795	4.0	15	<70	92 (42)
	13385436158	400/460	50/60	1200	2.0	15	<70	97 (44)
Design	**Housing:** stainless steel 304 **Cover:** stainless steel 304							

Additional Data		DTS 3141	DTS 3161	DTS 3181	
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	400			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.pfannenbergusa.com

Available Models:

DTS 3141 Indoor Rated (NEMA Type 12)

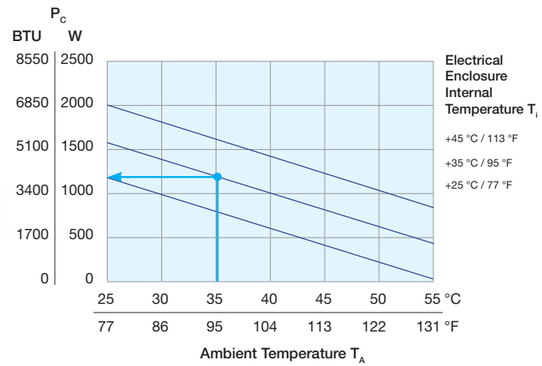
DTS 3161 Outdoor Rated (NEMA Type 3R/4)

DTS 3181 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) = 4100 Btu/h cooling capacity (Y-axis)



Note: Cooling capacity may vary between voltage and configurations.

Subject to technical amendments and misprints.

DTS 31X1SL | COOLING UNITS

3000 - 5000 Btu/h

The DTS 31X1SL series cooling units are designed to fit shallow enclosures vs 31X1 standard model. Available in 3 models; DTS 3141 SL (NEMA Type 12) for indoor use, DTS 3161 SL (NEMA Type 3R/4) designed for outdoor use, and the stainless steel DTS 3181 SL (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 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.

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

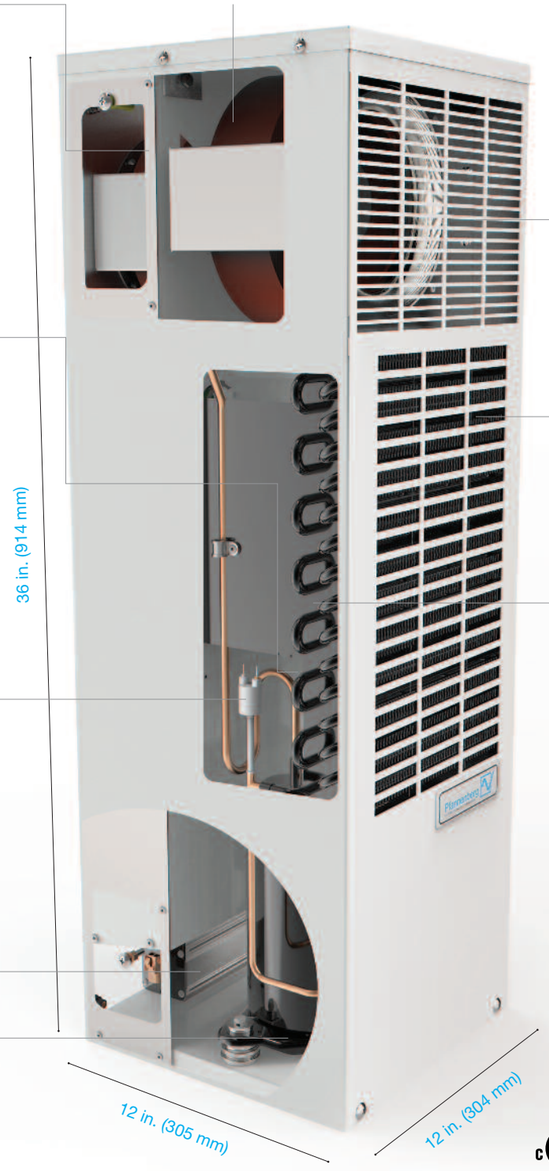
Thermal Overload Protection
Compressor and fan motors are outfitted with integral temperature switches to shut down the unit in the event of excessive temperature. This increases the operating life of the compressor by preventing thermal overload trips.

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.

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.

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

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.



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.

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.

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.

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.

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

Pfannenberg
ELECTRO-TECHNOLOGY FOR INDUSTRY

DTS 31X1 SL Series (3000 - 5000 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 3141 SL Indoor Rated (NEMA Type 12)	13383444255	115	60	917	13.4	15	<70	108 (49)
	13383441255	230	50/60	890	6.6	15	<70	108 (49)
	13383436255	400/460	50/60	751	1.9	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 3161 SL Outdoor Rated (NEMA Type 3R/4)	13383441355	230	50/60	890	6.6	15	<70	108 (49)
	13383436355	400/460	50/60	751	1.9	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 3181 SL Washdown (NEMA Type 4/4x)	13383441158	230	50/60	890	6.6	15	<70	108 (49)
	13383436158	400/460	50/60	751	1.9	15	<70	108 (49)
Design	**Housing:** stainless steel 304 **Cover:** stainless steel 304							

Additional Data		DTS 3141 SL	DTS 3161 SL	DTS 3181 SL	
Ambient Temperature Range	115 VAC	+ 59 … + 113/ + 15 … + 45	N/A	N/A	°F / °C
	460/230 VAC	+ 59 … + 131/ + 15 … + 55	+ 32… + 131 / + 0 … + 55	+ 59 … + 131 / + 15 … + 55	
Control range (adjustable)	SC	+ 77 … + 113 / + 25 … + 45; factory setting + 95 / + 35			
Refrigerant	type	R134a			
	quantity	900			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

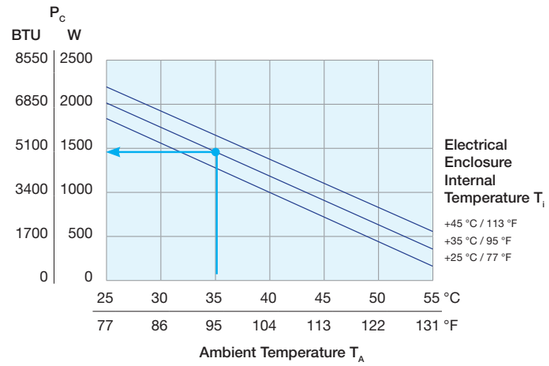
For additional technical data, drawings and templates.
www.pfannenbergusa.com

Available Models:

DTS 3141 SL Indoor Rated (NEMA Type 12)
DTS 3161 SL Outdoor Rated (NEMA Type 3R/4)
DTS 3181 SL 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) = 5097 Btu/h cooling capacity (Y-axis)



Note: Cooling capacity may vary between voltage and configurations.

Subject to technical amendments and misprints.

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.

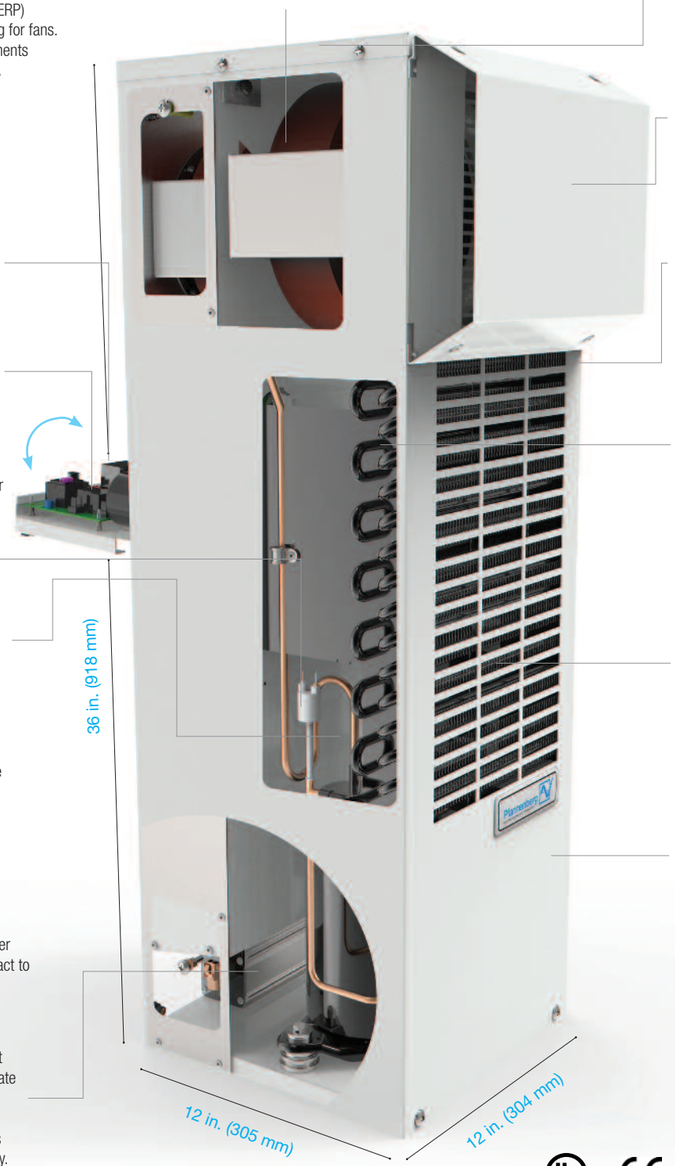
Thermal Expansion Valve
Regulates the flow of refrigerant based on thermal demand for efficient performance over the entire operating temperature range.

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.

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

Pfannenberg
ELECTRO-TECHNOLOGY FOR INDUSTRY

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:** stainless steel 304 **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)	SC	+ 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

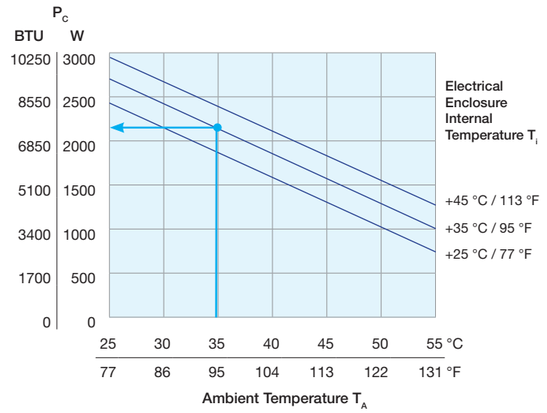
For additional technical data, drawings and templates.
www.pfannenbergusa.com

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.

Subject to technical amendments and misprints.

DTS 32X1 | COOLING UNITS

7000 - 8500 Btu/h

The DTS 32X1 series cooling units utilize a long internal air path to capture heat above the components and provide cool air below. Available in 3 models; DTS 3241 (NEMA Type 12) for indoor use, DTS 3261 (NEMA Type 3R/4) designed for outdoor use, and the stainless steel DTS 3281 (NEMA Type 4/4x) ideal 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.

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.

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.

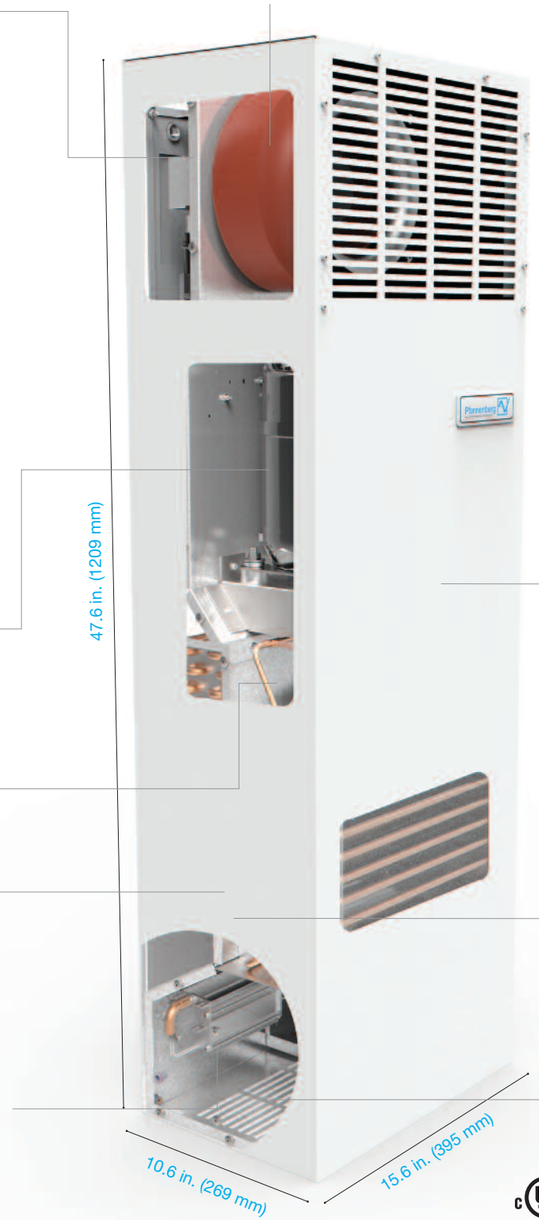
Hermetically Sealed Compressor
The absence of any refrigerant fill valves eliminates leak paths. Recharging is never needed. 100% cooling capacity efficiency is ensured.

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.

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.



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.

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.

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.

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.

Quiet Operation
Achieved with waste heat exhausted through the bottom.

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

Pfannenberg
ELECTRO-TECHNOLOGY FOR INDUSTRY

DTS 32X1 Series (7000 - 8500 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 3241 Indoor Rated (NEMA Type 12)	13385744255	115	60	1680	7.2	25	<73	119 (54)
	13385741255	230	50/60	1425	6.2	15	<73	119 (54)
	13385736255	400/460	50/60	1400	2.0	15	<73	135.5 (61)
Design	**Housing:** galvanized sheet steel **Cover:** electrostatically powder coated RAL 7035 (light grey); for ANSI 61 grey use part no. ending in ...251							
DTS 3261 Outdoor Rated (NEMA Type 3R/4)	13385744355	115	60	1680	7.2	25	<73	123.5 (56)
	13385741355	230	50/60	1425	6.2	15	<73	123.5 (56)
	13385736355	400/460	50/60	1400	2.0	15	<73	139 (63)
Design	**Housing:** galvanized sheet steel **Cover:** electrostatically powder coated RAL 7035 (light grey); for ANSI 61 grey use part no. ending in ...351							
DTS 3281 Washdown (NEMA Type 4/4x)	13385744158	115	60	1680	7.2	25	<73	132 (60)
	13385741158	230	50/60	1425	6.2	15	<73	132 (60)
	13385736158	400460	50/60	1400	2.0	15	<73	148 (67)
Design	**Housing:** stainless steel 304 **Cover:** stainless steel 304							

Additional Data		DTS 3241	DTS 3261	DTS 3281	
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	700			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.pfannenbergusa.com

Available Models:

DTS 3241 Indoor Rated (NEMA Type 12)

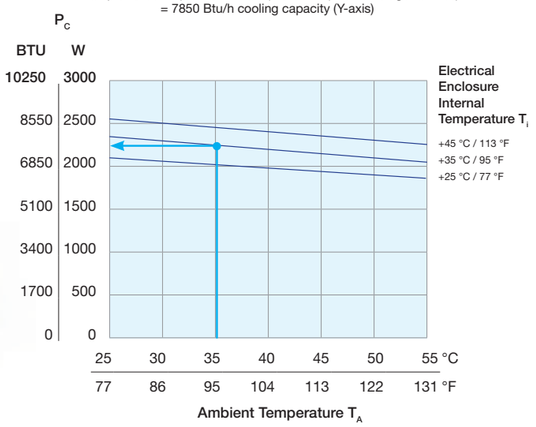
DTS 3261 Outdoor Rated (NEMA Type 3R/4)

DTS 3281 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) = 7850 Btu/h cooling capacity (Y-axis)



Note: Cooling capacity may vary between voltage and configurations.

Subject to technical amendments and misprints.

DTS 32X5 | COOLING UNITS

10000 - 13000 Btu/h

The DTS 32X5 series cooling units are one of our most popular and versatile cooling units, newly redesigned with our efficient micro channel condenser. Cutout footprint is compatible with our older 12,000 Btu/h cooling units, allowing for easy upgrade or replacement. Available in 3 models; DTS 3245 (NEMA Type 12) for indoor use, DTS 3265 (NEMA Type 3R/4) designed for outdoor use, and the stainless steel DTS 3285 (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.

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.

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.

Pluggable power connection
Easily made without opening the chassis.

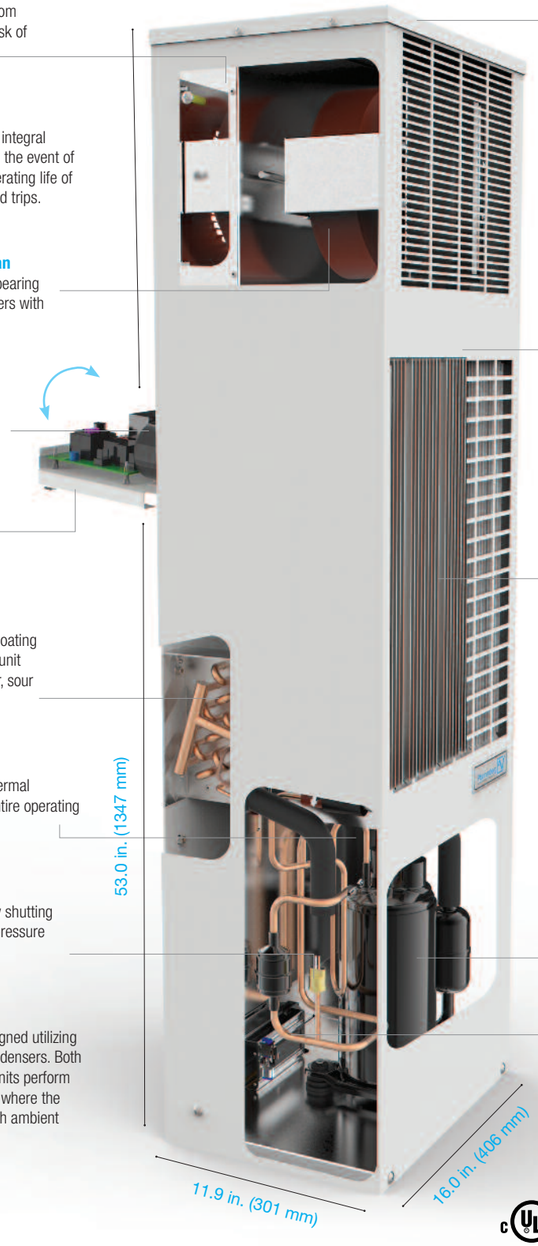
Easy Access Control Panel
Electrical controls are easily accessible with the flip down access panel.

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.

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

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.

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.



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

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

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.

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

Micro Channel Condenser
Improves efficiency and durability.

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

Pfannenberg
ELECTRO-TECHNOLOGY FOR INDUSTRY

DTS 32X5 Series (10000 - 13000 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 3245 Indoor Rated (NEMA Type 12)	13383844255	115	60	1600	16	25	<73	150 (68)
	13383839255	230	50/60	1600	9.4	15	<73	150 (68)
	13383836255	400/460	50/60	1700	2.6	10	<73	150 (68)
Design	**Housing:** galvanized sheet steel **Cover:** electrostatically powder coated RAL 7035 (light grey); for ANSI 61 grey use part no. ending in ...251							
DTS 3265 Outdoor Rated (NEMA Type 3R/4)	13383844355	115	60	1600	16	30	<73	150 (68)
	13383839355	230	50/60	1600	9.4	15	<73	150 (68)
	13383836355	400/460	50/60	1700	2.6	10	<73	150 (68)
Design	**Housing:** galvanized sheet steel **Cover:** electrostatically powder coated RAL 7035 (light grey); for ANSI 61 grey use part no. ending in ...351							
DTS 3285 Washdown (NEMA Type 4/4x)	13383844158	115	60	1600	16	25	<73	150 (68)
	13383839158	230	50/60	1600	9.4	15	<73	150 (68)
	13383836158	400/460	50/60	1700	2.6	10	<73	150 (68)
Design	**Housing:** stainless steel 304 **Cover:** stainless steel 304							

Additional Data		DTS 3245	DTS 3265	DTS 3285	
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	1200			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

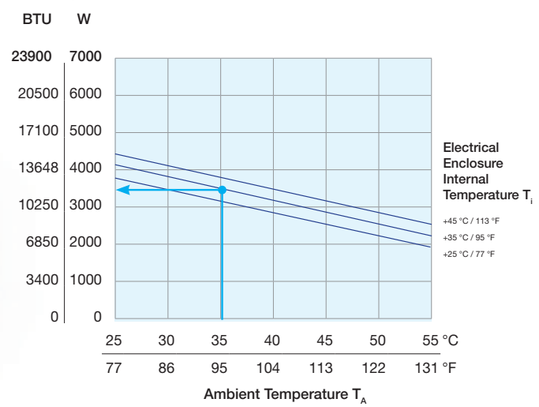
For additional technical data, drawings and templates.
www.pfannenbergusa.com

Available Models:

DTS 3245 Indoor Rated (NEMA Type 12)
DTS 3265 Outdoor Rated (NEMA Type 3R/4)
DTS 3285 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) = 11500 Btu/h cooling capacity (Y-axis)



Note: Cooling capacity may vary between voltage and configurations.

Subject to technical amendments and misprints.

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.

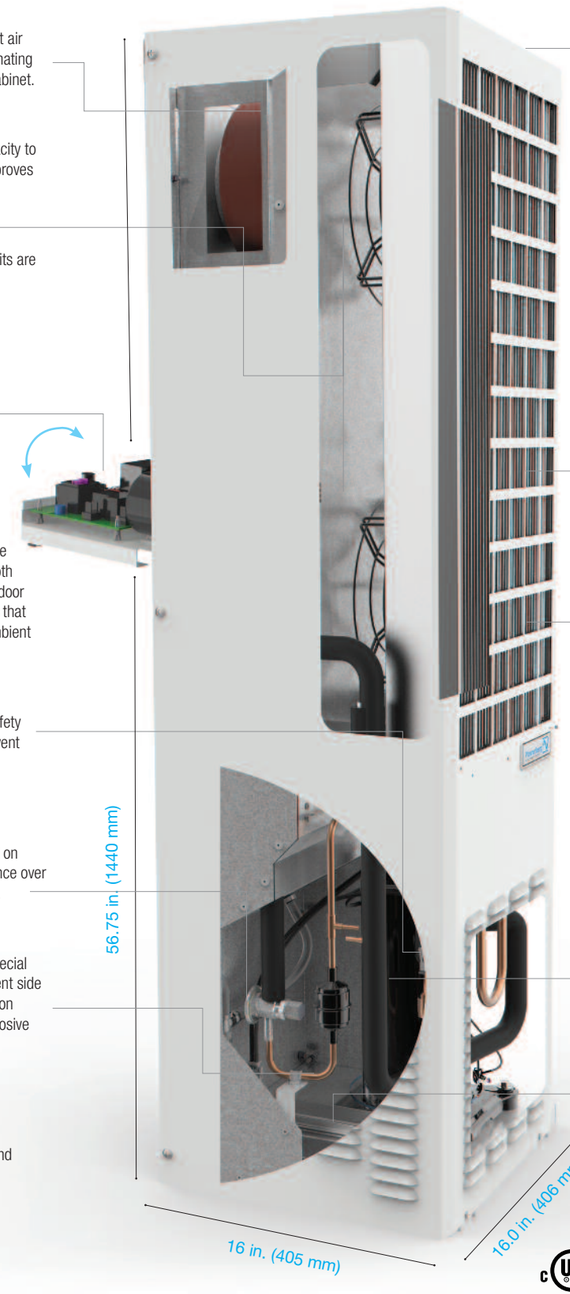
High Ambient Performance
The DTS 3000 Series Cooling Units were designed utilizing high temperature compressors and larger condensers. Both the indoor NEMA Type 12 units and outdoor units perform very well in environments that require cooling where the maximum ambient temperature is 131° F.

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.

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

Pfannenberg
ELECTRO-TECHNOLOGY FOR INDUSTRY

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:** stainless steel 304 **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

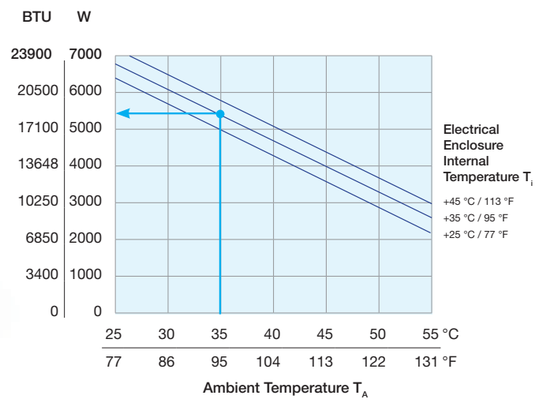
For additional technical data, drawings and templates.
www.pfannenbergusa.com

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.

Subject to technical amendments and misprints.

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 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.

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.

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.

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.

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.

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

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

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.

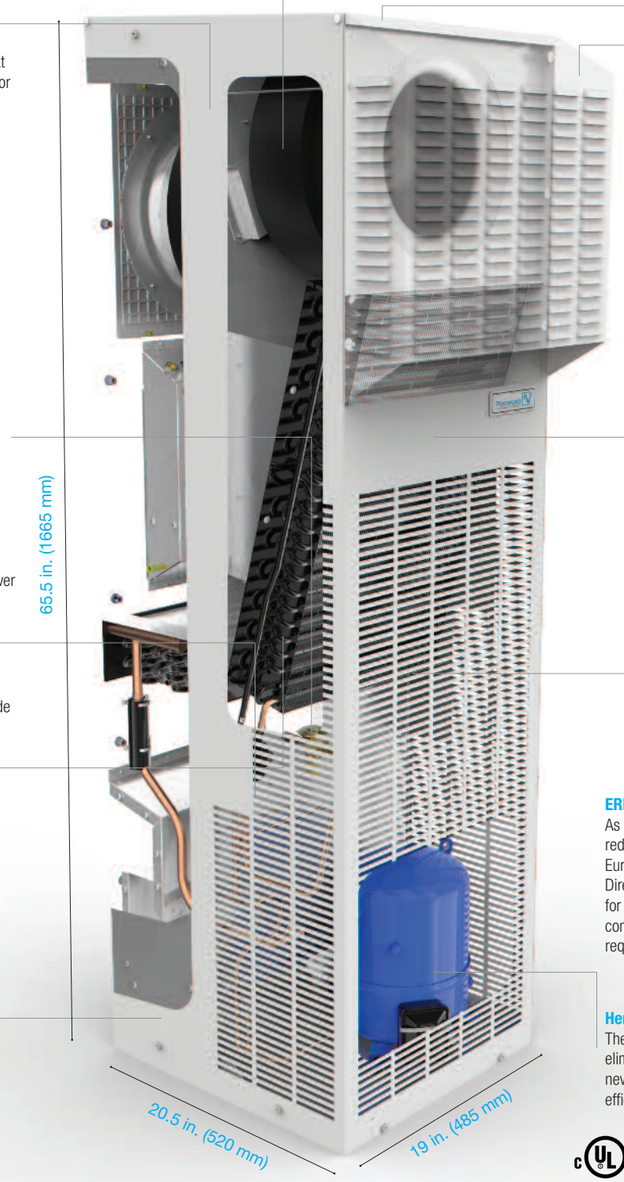
Corrosion Protection
Outdoor and washdown units have a special coating on pipes and coils on the ambient side of the unit to provide maximum protection from saltwater, sour gas, and other corrosive substances.

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.

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.



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

Pfannenberg
ELECTRO-TECHNOLOGY FOR INDUSTRY

DTS 36X1 Series (20000 - 24000 Btu/h) Side-Mount Cooling Units

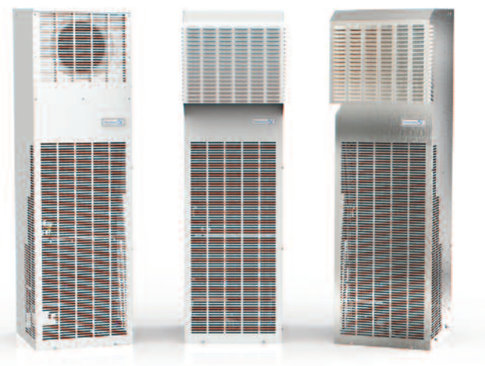
Model Number	Part Number	Voltage (VAC)	Frequency (Hz)	Power Consumption (W)	Nominal (Run) Current* @ 35A/35A °C	Fuse (maximum)** Class CC	Noise Level (according to EN ISO 3741) dB(A)	Weight (without packaging) lb (kg)
DTS 3641 Indoor Rated (NEMA Type 12)	13383939255	230	50/60	3142	17.1	30	<73	230 (105)
	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:** stainless steel 304 **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

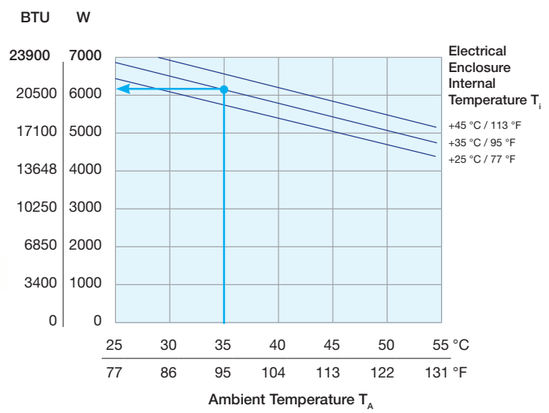
Available Models:



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.

Subject to technical amendments and misprints.

ℰCOOL COOLING UNITS

OEMs know: Looking towards the future, engineering processes will demand new and better uses of technology. Optimization is needed – with solutions that combine maximum performance, environmental friendliness and maximum cost efficiency. Our ℰCOOL technology sets this new standard.

ℰCOOL is the most efficient solution.

Raising productivity, reducing CO2 emissions and cutting costs – Pfannenberg is aware of the challenges companies are facing today. We offer a solution: ℰCOOL technology. Developed with the aim of maximum cost efficiency coupled with maximum performance, ℰCOOL technology represents a new standard for cost and energy savings in the thermal management of electrical enclosures. The result: **it enables annual savings of over 35 % in energy costs alone.**

Produced out of rugged sheet metal, Pfannenberg's cooling units are extremely resilient and long-lasting in test industrial operating conditions. Depending on requirements, they are available for traditional mounting on the door or side, for partially recessed door or side mounting and the space-saving top-mounted position. Colors can easily be integrated as well because the covers can be painted or powder coated to suit the particular industrial design.

The ℰCOOL series also set records in terms of ease of assembly and maintenance – which leads to more cost benefits.

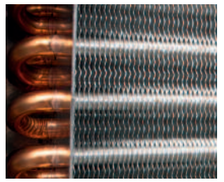
Easy Handling: Service-friendly design reduces routine costs.

Thought-out solutions for installation and service: Pfannenberg's ℰCOOL series takes excellent accessibility and simple maintenance into consideration.

- Large condenser fin spacing allow for longer maintenance periods, even without an additional Nano coating.
- One mounting cut-out for 5 different performances, 1,000–4,000 W.
- Mounting possible by 1 person in a few minutes.
- Simple accessibility to all the relevant components.
- Fast component replacement.
- Integration in established network possible.
- Versatile voltage supply of 380–460 V via built-in transformer.
- Integrated condensate evaporation system.

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

Pfannenberg
ELECTRO-TECHNOLOGY FOR INDUSTRY



Large fin spacing

Simple installation

Condensate evaporate system

Time-saving.

Tool-free patented mounting design allows for quick and efficient assembly that considerably reduces installation costs.

Simple installation.

Pfannenberg offers cooling units with the world largest possible cut-out compatibility providing unit replacement with the least possible installation work. Intelligent mounting systems minimize work during unit installation and replacement.

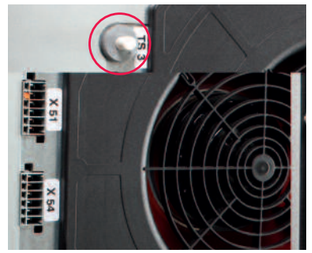
Advantages of the ℰCOOL Cooling Unit Series.

New Filter Adapter:

- Optional adapter for multiple use and all filter inserts.
- Optional filter inserts (aluminum, fleece or fluted filter inserts) depending on the environmental conditions/application.
- Patented fluted filter mats extend the service intervals by 300%.
- Tool-less installation and tool-less filter replacement.
- Filter replacement in less than one minute.
- Filter adapter available in several colors.

Controlled Energy Efficiency:

- Pfannenberg "Multi Controller" (MC) has now been upgraded with the energy savings mode (ESM) as a standard feature (DTI/DTS 6000 series).
- Internal fan switches off when no temperature increase is registered; condensate evaporator will then be deactivated.
- Cooling mode starts automatically upon exceeding the required cabinet temperature.
- Additional temperature probe for precise measurement of the internal cabinet temperature and to ensure correct operation of the energy savings mode.
- No intermediate start-up of the internal fan necessary for temperature monitoring of the cabinet.
- Fan's length of life is significantly longer.



Subject to technical amendments and misprints.

DTI 6000 C | RECESSED COOLING UNITS

3000 - 6000 Btu/h

ECOOL

NEW

The New DTI 6000C series compact cooling units are easily serviceable and easy to install. These units also feature the best energy efficiency in the market when compared against similar product. These cooling units are Ideal for mounting on a cabinet door and are partially recessed for space restricted installations.

Partially Recessed
For space restricted installations, ideal for door mount.

Thermal Overload Protection
Compressor and fan motors are outfitted with integral temperature switches to shut down the unit in the event of excessive temperature.

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.

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

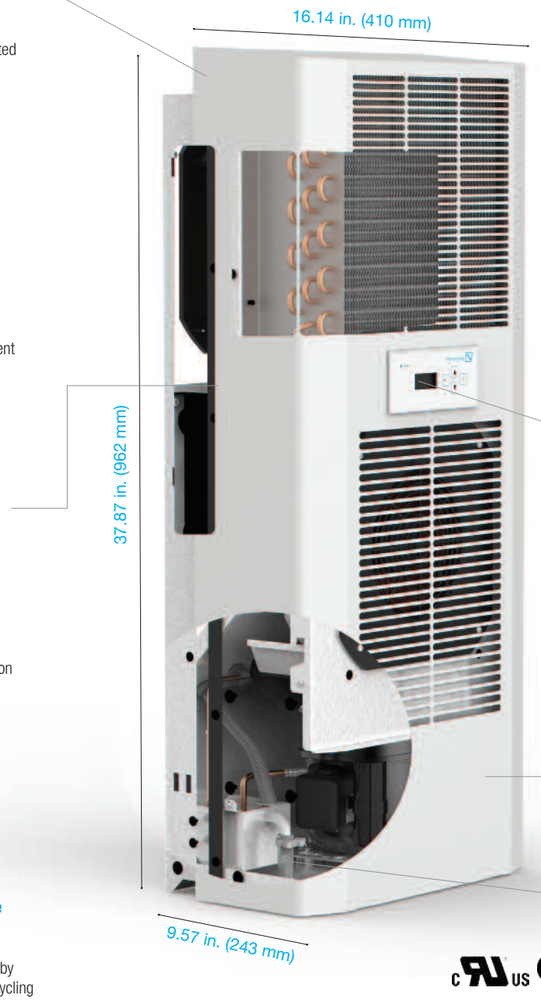
Thermal Expansion Valve
Regulates the flow of refrigerant based on thermal demand for efficient performance over the entire operating temperature range.

Efficient Circulation
Large distance between intake and exhaust vents for efficient air circulation and elimination of hot spots.

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

Energy Efficient Hibernation Mode
When cooling isn't necessary due to equipment shutdown or cold weather conditions, the unit conserves energy by turning fans off - except for periodic cycling for circulating air within the enclosure.

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.



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

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 for up to 43% energy savings and operating costs reduction.

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.

External Display
For visual temperature monitoring.

Easy Installation and Maintenance
Tool-free spring plate design keeps the unit safely in place and allows mounting by 1 person in less than 3 minutes with 55% lower mounting costs. Direct access to the PCB and the fans means 80% shorter repair times.

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

Pfannenberg
ELECTRO-TECHNOLOGY FOR INDUSTRY

DTI 6000 C Series (3000 - 6000 Btu/h) Recessed 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)
DTI 6201C	13895221055	230	50/60	445 / 560	2.4 / 2.9	6	<62	88 (40)
	13895229055	400/460	50/60	480 / 570	1.8 / 2.1	10	<62	99 (45)
Design	**Housing:** galvanized sheet steel **Cover:** electrostatically powder coated RAL 7035 (light grey);							
DTI 6301C	13895321055	230	60	705 / 820	5 / 5.2	6	<62	88 (40)
	13895329055	400/460	50/60	770 / 820	3.5 / 3.3	10	<62	99 (45)
Design	**Housing:** galvanized sheet steel **Cover:** electrostatically powder coated RAL 7035 (light grey);							

Additional Data		DTI 6201C / DTI 6301C	
Ambient Temperature Range		+ 59 … + 131 / + 15 … + 55	°F / °C
Control range (adjustable)	SC	+ 77 … + 113 / + 25 … + 45; factory setting + 95 / + 35	
Refrigerant	type	R134a	
	quantity	580	g
Condensate management		integrated condensate evaporation system with safety overflow	
Protection system according to EN 60529	IP54	towards the electrical enclosure if used as intended by the manufacturer	
	IP34	towards the surroundings if used as intended by the manufacturer	
Accessories		Consult Factory	

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

Available Models:

DTI 6201C
Indoor Rated

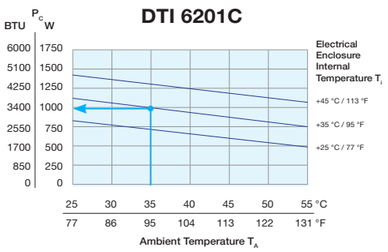
DTI 6301C
Indoor Rated

Cooling Capacity Performance Curves

How to use these charts

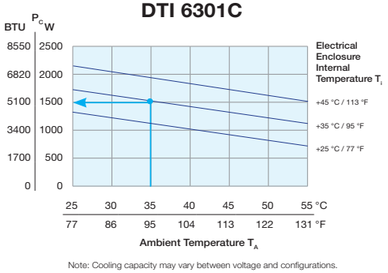
Example: @ 95 °F (ambient, X-axis), @ 95 °F (internal, diagonal lines) DTI 6201C = 3400 Btu/h cooling capacity (Y-axis) DTI 6301C = 5100 Btu/h cooling capacity (Y-axis)

DTI 6201C



Note: Cooling capacity may vary between voltage and configurations.

DTI 6301C



Note: Cooling capacity may vary between voltage and configurations.

Subject to technical amendments and misprints.

DTI 6201 - 6301 | RECESSED COOLING UNITS

3000 - 6000 Btu/h

ECOOL

The DTI 6201 - 6301 series cooling units utilize a long internal air path to capture heat above the components and provide cool air below. These cooling units are Ideal for mounting on a cabinet door and are partially recessed for space restricted installations.

Partially Recessed
For space restricted installations, ideal for door mount.

Easy Installation and Maintenance
Tool-free spring plate design keeps the unit safely in place and allows mounting by 1 person in less than 3 minutes with 55% lower mounting costs. Direct access to the PCB and the fans means 80% shorter repair times.

Thermal Overload Protection
Compressor and fan motors are outfitted with integral temperature switches to shut down the unit in the event of excessive temperature.

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.

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

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

Efficient Circulation
Large distance between intake and exhaust vents for efficient air circulation and elimination of hot spots.

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

Energy Efficient Hibernation Mode
When cooling isn't necessary due to equipment shutdown or cold weather conditions, the unit conserves energy by turning fans off - except for periodic cycling for circulating air within the enclosure.

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

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 for up to 43% energy savings and operating costs reduction.

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.

External Display
For visual temperature monitoring.

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.

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

Pfannenberg
ELECTRO-TECHNOLOGY FOR INDUSTRY

DTI 6201 - 6301 Series (3000 - 6000 Btu/h) Recessed 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)
DTI 6201	13896221055	230	50/60	454 / 567	3.08 / 3.65	16	<62	112 (51)
	13896229055	400/460	50/60	490 / 570	2.33 / 2.54	4	<62	128 (58)
Design	**Housing:** galvanized sheet steel **Cover:** electrostatically powder coated RAL 7035 (light grey);							
DTI 6301	13896321055	230	60	727 / 868	5.08 / 5.17	16	<62	119 (54)
	13896329055	400/460	50/60	786 / 863	3.65 / 3.35	4	<62	132 (60)
Design	**Housing:** galvanized sheet steel **Cover:** electrostatically powder coated RAL 7035 (light grey);							

Additional Data		DTI 6201 / DTI 6301	
Ambient Temperature Range		+ 59 … + 131 / + 15 … + 55	°F / °C
Control range (adjustable)	SC	+ 77 … + 113 / + 25 … + 45; factory setting + 95 / + 35	
Refrigerant	type	R134a	
	quantity	600	g
Condensate management		integrated condensate evaporation system with safety overflow	
Protection system according to EN 60529	IP54	towards the electrical enclosure if used as intended by the manufacturer	
	IP34	towards the surroundings if used as intended by the manufacturer	
Accessories		Consult Factory	

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

Available Models:

DTI 6201
Indoor Rated

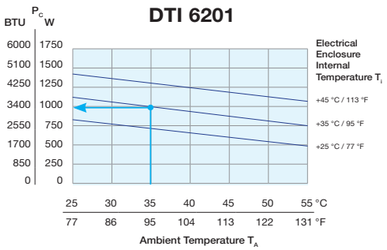
DTI 6301
Indoor Rated

Cooling Capacity Performance Curves

How to use these charts

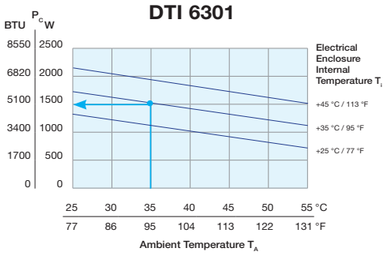
Example: @ 95 °F (ambient, X-axis), @ 95 °F (internal, diagonal lines)
DTI 6201 = 3400 Btu/h cooling capacity (Y-axis)
DTI 6301 = 5100 Btu/h cooling capacity (Y-axis)

DTI 6201



Note: Cooling capacity may vary between voltage and configurations.

DTI 6301



Note: Cooling capacity may vary between voltage and configurations.

Subject to technical amendments and misprints.

DTI 6401 - 6501 | RECESSED COOLING UNITS

7000 - 11000 Btu/h

ECOOL

The DTI 6401 - 6501 series cooling units have about 2x greater cooling capactity than the DTI 6202/6301. These cooling units also utilize a long internal air path to capture heat above the components and provide cool air below. These units are Ideal for mounting on a cabinet door and are partially recessed for space restricted installations.

Partially Recessed
For space restricted installations, ideal for door mount.

Easy Installation and Maintenance
Tool-free spring plate design keeps the unit safely in place and allows mounting by 1 person in less than 3 minutes with 55% lower mounting costs. Direct access to the PCB and the fans means 80% shorter repair times.

Thermal Overload Protection
Compressor and fan motors are outfitted with integral temperature switches to shut down the unit in the event of excessive temperature.

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.

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

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

Efficient Circulation
Large distance between intake and exhaust vents for efficient air circulation and elimination of hot spots.

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

Energy Efficient Hibernation Mode
When cooling isn't necessary due to equipment shutdown or cold weather conditions, the unit conserves energy by turning fans off - except for periodic cycling for circulating air within the enclosure.

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

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 for up to 43% energy savings and operating costs reduction.

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.

External Display
For visual temperature monitoring.

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.

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

Pfannenberg
ELECTRO-TECHNOLOGY FOR INDUSTRY

DTI 6401 - 6501 Series (7000 - 11000 Btu/h) Recessed 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 37.41) dB(A)	Weight (without packaging) lb (kg)
DTI 6401	13896422055	400/460	50/60	735 / 908	2.8 / 2.6	16	<65	139 (63)
Design	**Housing:** galvanized sheet steel **Cover:** electrostatically powder coated RAL 7035 (light grey);							
DTI 6501	13896522055	400/460	50/60	1048 / 1247	3.3 / 3	16	<65	148 (67)
Design	**Housing:** galvanized sheet steel **Cover:** electrostatically powder coated RAL 7035 (light grey);							

Additional Data		DTI 6401	DTI 6501	
Ambient Temperature Range		+ 59 … + 131 / + 15 … + 55		°F / °C
Control range (adjustable)	SC	+ 77 … + 113 / + 25 … + 45; factory setting + 95 / + 35		
Refrigerant	type	R134a		
	quantity	1400		g
Condensate management		integrated condensate evaporation system with safety overflow		
Protection system according to EN 60529	IP54	towards the electrical enclosure if used as intended by the manufacturer		
	IP34	towards the surroundings if used as intended by the manufacturer		
Accessories		Consult Factory		

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

Available Models:

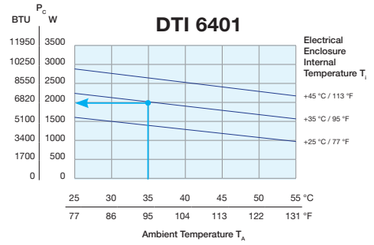
DTI 6401
Indoor Rated

DTI 6501
Indoor Rated

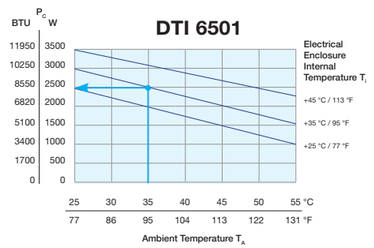
Cooling Capacity Performance Curves

How to use these charts

Example: @ 95 °F (ambient, X-axis), @ 95 °F (internal, diagonal lines)
DTI 6401 = 6820 Btu/h cooling capacity (Y-axis)
DTI 6501 = 8550 Btu/h cooling capacity (Y-axis)



Note: Cooling capacity may vary between voltage and configurations.



Subject to technical amendments and misprints.

DTI 6801 | RECESSED COOLING UNITS

13000 - 16000 Btu/h

ECOOL

The DTI 6801 series cooling units offer the greatest cooling capacity of our DTI Series Recessed Cooling Units. These cooling units also utilize a long internal air path to capture heat above the components and provide cool air below. These units are Ideal for mounting on a cabinet door and are partially recessed for space restricted installations.

Partially Recessed
For space restricted installations, ideal for door mount.

Easy Installation and Maintenance
Tool-free spring plate design keeps the unit safely in place and allows mounting by 1 person in less than 3 minutes with 55% lower mounting costs. Direct access to the PCB and the fans means 80% shorter repair times.

Thermal Overload Protection
Compressor and fan motors are outfitted with integral temperature switches to shut down the unit in the event of excessive temperature.

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.

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

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

Efficient Circulation
Large distance between intake and exhaust vents for efficient air circulation and elimination of hot spots.

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

Energy Efficient Hibernation Mode
When cooling isn't necessary due to equipment shutdown or cold weather conditions, the unit conserves energy by turning fans off - except for periodic cycling for circulating air within the enclosure.

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

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 for up to 43% energy savings and operating costs reduction.

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.

External Display
For visual temperature monitoring.

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.

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.

c UL us CE

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

Pfannenberg
ELECTRO-TECHNOLOGY FOR INDUSTRY

DTI 6801 (13000 - 16000 Btu/h) Recessed 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)
DTI 6801	13896822055	400/460	50 / 60	1918 / 2369	4.5 / 4.6	16	<70	202 (92)
Design	**Housing:** galvanized sheet steel **Cover:** electrostatically powder coated RAL 7035 (light grey);							

Additional Data		DTI 6801	
Ambient Temperature Range		+ 59 … + 131 / + 15 … + 55	°F / °C
Control range (adjustable)	SC	+ 77 … + 113 / + 25 … + 45; factory setting + 95 / + 35	
Refrigerant	type	R134a	
	quantity	2000	g
Condensate management		integrated condensate evaporation system with safety overflow	
Protection system according to EN 60529	IP54	towards the electrical enclosure if used as intended by the manufacturer	
	IP34	towards the surroundings if used as intended by the manufacturer	
Accessories		Consult Factory	

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

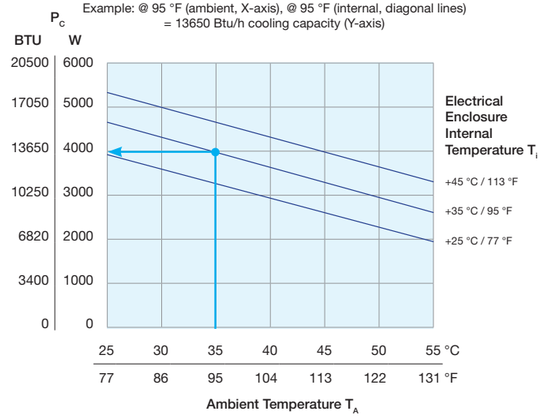
Available Models:

DTI 6801
Indoor Rated

Cooling Capacity Performance Curve

How to use this chart

Example: @ 95 °F (ambient, X-axis), @ 95 °F (internal, diagonal lines) = 13650 Btu/h cooling capacity (Y-axis)



Note: Cooling capacity may vary between voltage and configurations.

Subject to technical amendments and misprints.

THE DTT εCOOL SERIES COOLING UNITS

For Top Mounted Applications

Pfannenberg's DTT Series top mounted cooling units are 100% condensate safe. These units are ideal for space-saving installation on the top of the control cabinet. One of the main features of the DTT's innovative condensate management design is the repositioning of the cooling circuits. Moving the cold area up prevents condensation from forming in the cabinet where the cooling unit meets the enclosure. A widened airflow in the evaporator stops the formation of condensate buildup. Finally return air channels are engineered to increase the speed of the air leaving the cooling unit, ensuring cool air is effectively distributed moisture-free within the enclosure.

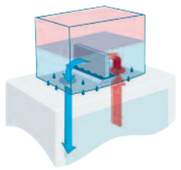
Advantages of DTT Cooling Units:

- Space-saving installation on top of the control cabinet:
  - Keep emergency exit routes and logistic paths clear.
  - Free up space on the production floor.
- Protected placement above the production floor. Unit is out of reach from fork lift trucks and other vehicles.
- DTT cooling units fit on all manufacturers' cabinets.
- 100 % protection against condensate due to patented seamless molded condensate tray.

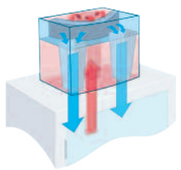
DTT – Guaranteed 4-fold condensate protection:

1. Repositioned cooling circuit prevents "cold bridge" formation on the ceiling of the electrical enclosure.
2. One piece leak-proof molded tub.
3. Managed water droplet control.
4. Eliminate the need for duct work inside the cabinet.

Cold Bridge



The challenge:
The lower, cold area of the cooling unit has direct contact with the ceiling of the warm electrical enclosure. As a result of this "cold bridge"effect, condensate can form on the inside ceiling of the electrical enclosure and drip into the inside.

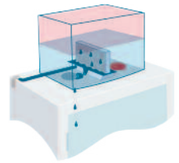


The Pfannenberg solution:
The position of the air-conditioning circuits was changed. When the cold area of the cooling unit is at the top and the warm area is at the bottom, a "cold bridge" cannot form on the inside ceiling eliminating the risk of condensate dripping inside the electrical enclosure.

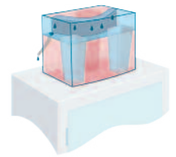
For additional technical data, drawings and templates. www.pfannenbergusa.com

Pfannenberg
ELECTRO-TECHNOLOGY FOR INDUSTRY

Overflow of Condensate

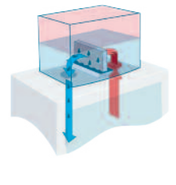


The challenge:
The horizontal condensate discharge which runs along the unit's floor makes the condensate drainage more difficult. Part of the condensate water that has accumulated in the cooling unit can overflow into the electrical enclosure via the air outlet opening.

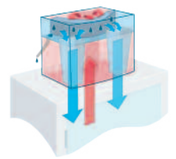


The Pfannenberg solution:
Vertical drainage of the condensate. The positioning of the evaporator in the top part of the cooling unit allows for problem-free drainage of the condensate water without contact to the electrical enclosure.

Condensate Build-up

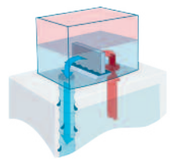


The challenge:
Concentrated warm air hits the evaporator. Parts of the condensate water formed there can be carried away by the airflow and can get into the electrical enclosure with the cold air.

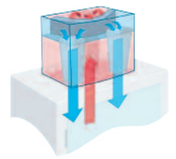


The Pfannenberg solution:
The warm air is spread out over a large evaporator. The reduced air speed at the evaporator reduces the risk of water being carried through the air, guaranteeing a condensate-free airflow in the direction of the electrical enclosure.

Air Hoses



The challenge:
The hoses conducting the cold air are surrounded by warm air from the electrical enclosure. As a result, condensate can form on the surface of the hose.



The Pfannenberg solution:
Integrated nozzles instead of air hoses. Air outlet nozzles are positioned on both sides of the cooling unit which accelerate the cold air and conduct it condensate-free down to the bottom of the electrical enclosure.

Subject to technical amendments and misprints.

DTT 6101- 6201 | COOLING UNITS

1200 - 4000 Btu/h

ECOOL

The DTT 6101 - 6201 cooling units use our 100% patented condensate safety design and new micro-channel condensers for greater efficiency. These cooling units are designed to be placed on top of the enclosure when there is a space shortage or aisles need to be kept clear.

Zero Sweat Guarantee
Condensate will not form in the cabinet where the cooling unit meets the enclosure.

Managed Water Droplet Control
As the airflow passes through the evaporator, any condensate generated on the evaporator will not be carried into the enclosure.

Eliminate the need for Duct Work
Return air channels are engineered to increase the speed of the air leaving the cooling unit, ensuring cool air is effectively distributed moisture-free within the enclosure.

One Piece Leak-Proof Molded Tub
Industry's only seamless molded condensate tray located at the top of the unit eliminates the ability for water to drip into the cabinet.

Energy Efficient
Our optional multi controller connected to a sensor, automatically turns off the fan when it is not needed.

Active Condensate Management
Condensate evaporator uses heat to eliminate condensate even when the system is not actively cooling.

Durable and Reliable Components
High quality compressor, fans and heat exchangers provide dependable cooling of electrical enclosure components. The micro-channel design provides a condenser coil that is harder to damage. Fin combing is not necessary to maintain proper airflow channels.

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.

Fast and Easy Maintenance
Removable cover allows for easy access to the front facing control components. In addition the micro-channel condenser design allows for an air path that clogs less and is significantly easier to clean during general maintenance.

Reduced Maintenance Costs
Have a dirty environment? Use our optional tool-free quick release filter mat mounting frame and a standard Pfannenberg filter to extend the life of the unit and reduce maintenance costs.

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

Pfannenberg
ELECTRO-TECHNOLOGY FOR INDUSTRY

DTT 6101 - 6201 Series (1200 - 4000 Btu/h) 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)
DTT 6101 Indoor Rated (NEMA Type 12)	13256144055	115	60	569	5.6	20	<62	73 (33)
	13256141055	230	50/60	458 / 532	2.36 / 3	10	<62	73 (33)
Design	**Housing:** galvanized sheet steel **Cover:** electrostatically powder coated RAL 7035 (light grey);							
DTT 6201 Indoor Rated (NEMA Type 12)	13256244055	115	60	877	10	20	<62	77 (35)
	13256241055	230	50/60	663 / 805	3.98 / 4.5	10	<62	77 (35)
	13256249055	400/460	50/60	706 / 845	2.82 / 2.5	6	<62	90 (41)
Design	**Housing:** galvanized sheet steel **Cover:** electrostatically powder coated RAL 7035 (light grey);							

Additional Data		DTT 6101 / DTT 6201	
Ambient Temperature Range		+ 59 … + 131 / + 15 … + 55	°F / °C
Control range (adjustable)	SC	+ 77 … + 113 / + 25 … + 45; factory setting + 95 / + 35	
Refrigerant	type	R134a	
	quantity	400	g
Condensate management		active condensate evaporation system with safety overflow	
Protection system according to EN 60529		NEMA 12 against enclosure when properly installed	
		NEMA 1 towards the surroundings when properly installed	

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

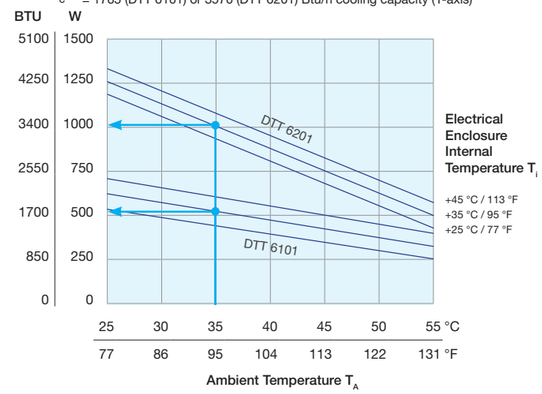
Available Models:

DTT 6101 **DTT 6201**

Cooling Capacity Performance Curve

How to use this chart

Example: @ 95 °F (ambient, X-axis), @ 95 °F (internal, diagonal lines) = 1785 (DTT 6101) or 3570 (DTT 6201) Btu/h cooling capacity (Y-axis)



Note: Cooling capacity may vary between voltage and configurations.

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

Subject to technical amendments and misprints.

DTT 6301- 6401 | COOLING UNITS

4000 - 7000 Btu/h

ECOOL

The DTT 6301 - 6401 cooling units use our 100% patented condensate safety design and new micro-channel condensers for greater efficiency. These cooling units are designed to be placed on top of the enclosure when there is a space shortage or aisles need to be kept clear.

Zero Sweat Guarantee
Condensate will not form in the cabinet where the cooling unit meets the enclosure.

Managed Water Droplet Control
As the airflow passes through the evaporator, any condensate generated on the evaporator will not be carried into the enclosure.

Eliminate the need for Duct Work
Return air channels are engineered to increase the speed of the air leaving the cooling unit, ensuring cool air is effectively distributed moisture-free within the enclosure.

One Piece Leak-Proof Molded Tub
Industry's only seamless molded condensate tray located at the top of the unit eliminates the ability for water to drip into the cabinet.

Energy Efficient
Our optional multi controller connected to a sensor, automatically turns off the fan when it is not needed.

Active Condensate Management
Condensate evaporator uses heat to eliminate condensate even when the system is not actively cooling.

Durable and Reliable Components
High quality compressor, fans and heat exchangers provide dependable cooling of electrical enclosure components. The micro-channel design provides a condenser coil that is harder to damage. Fin combing is not necessary to maintain proper airflow channels.

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.

Fast and Easy Maintenance
Removable cover allows for easy access to the front facing control components. In addition the micro-channel condenser design allows for an air path that clogs less and is significantly easier to clean during general maintenance.

Reduced Maintenance Costs
Have a dirty environment? Use our optional tool-free quick release filter mat mounting frame and a standard Pfannenberg filter to extend the life of the unit and reduce maintenance costs.

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

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

Pfannenberg
ELECTRO-TECHNOLOGY FOR INDUSTRY

DTT 6301 - 6401 Series (4000 - 7000 Btu/h) 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)
DTT 6301 Indoor Rated (NEMA Type 12)	13256344055	115	60	1027	15	20	<62	88 (40)
	13256341055	230	50/60	980 / 1140	5.73 / 7	10	<62	99 (45)
	13256349055	400/460	50/60	962 / 1150	3.75 / 3.6	6	<62	116.8 (53)
Design	**Housing:** galvanized sheet steel **Cover:** electrostatically powder coated RAL 7035 (light grey);							
DTT 6401 Indoor Rated (NEMA Type 12)	13256444055	115	60	1894	20	20	<62	97 (44)
	13256441055	230	50/60	1049 / 1275	6.2 / 7	10	<62	101 (46)
	13256432055	400/460	50/60	1300 / 1598	3.35 / 3.3	6	<62	112 (51)
Design	**Housing:** galvanized sheet steel **Cover:** electrostatically powder coated RAL 7035 (light grey);							

Additional Data		DTT 6301	DTT 6401	
Ambient Temperature Range		+ 59 … + 131 / + 15 … + 55		°F / °C
Control range (adjustable)	**SC**	+ 77 … + 113 / + 25 … + 45; factory setting + 95 / + 35		
Refrigerant	**type**	R134a		
	quantity	725	650	g
Condensate management		integrated condensate evaporation system with safety overflow		
Protection system according to EN 60529		NEMA 12 against enclosure when properly installed		
		NEMA 1 towards the surroundings when properly installed		

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

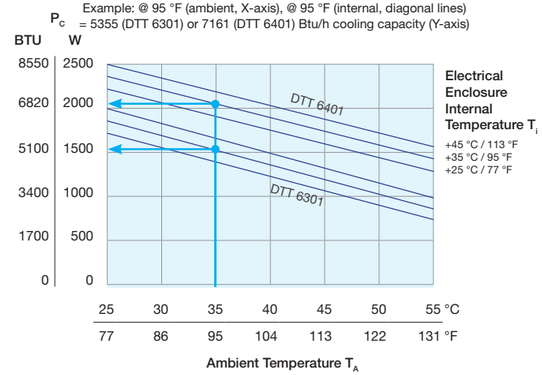
Available Models:

DTT 6301 **DTT 6401**

Cooling Capacity Performance Curve

How to use this chart

Example: @ 95 °F (ambient, X-axis), @ 95 °F (internal, diagonal lines) = 5355 (DTT 6301) or 7161 (DTT 6401) Btu/h cooling capacity (Y-axis)



Note: Cooling capacity may vary between voltage and configurations.

Subject to technical amendments and misprints.

DTT 6601- 6801 | COOLING UNITS

7000 - 14000 Btu/h

ECOOL

The DTT 6601 - 6801 cooling units use our 100% patented condensate safety design and new micro-channel condensers for greater efficiency. These cooling units are designed to be placed on top of the enclosure when there is a space shortage or aisles need to be kept clear.

Zero Sweat Guarantee
Condensate will not form in the cabinet where the cooling unit meets the enclosure.

Managed Water Droplet Control
As the airflow passes through the evaporator, any condensate generated on the evaporator will not be carried into the enclosure.

Eliminate the need for Duct Work
Return air channels are engineered to increase the speed of the air leaving the cooling unit, ensuring cool air is effectively distributed moisture-free within the enclosure.

One Piece Leak-Proof Molded Tub
Industry's only seamless molded condensate tray located at the top of the unit eliminates the ability for water to drip into the cabinet.

Energy Efficient
Our optional multi controller connected to a sensor, automatically turns off the fan when it is not needed.

Active Condensate Management
Condensate evaporator uses heat to eliminate condensate even when the system is not actively cooling.

Durable and Reliable Components
High quality compressor, fans and heat exchangers provide dependable cooling of electrical enclosure components. The micro-channel design provides a condenser coil that is harder to damage. Fin combing is not necessary to maintain proper airflow channels.

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.

Fast and Easy Maintenance
Removable cover allows for easy access to the front facing control components. In addition the micro-channel condenser design allows for an air path that clogs less and is significantly easier to clean during general maintenance.

Reduced Maintenance Costs
Have a dirty environment? Use our optional tool-free quick release filter mat mounting frame and a standard Pfannenberg filter to extend the life of the unit and reduce maintenance costs.

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

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

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DTT 6601 - 6801 Series (7000 - 14000 Btu/h) 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)
DTT 6601 Indoor Rated (NEMA Type 12)	13256632055	400/460	50/60	1700 / 2100	3.16 / 4.5	10	<62	165 (75)
Design	**Housing:** galvanized sheet steel **Cover:** electrostatically powder coated RAL 7035 (light grey);							
DTT 6801 Indoor Rated (NEMA Type 12)	13256832055	400/460	50/60	1601 / 1989	4.6 / 4.5	10	<62	170 (77)
Design	**Housing:** galvanized sheet steel **Cover:** electrostatically powder coated RAL 7035 (light grey);							

Additional Data		DTT 6601	DTT 6801	
Ambient Temperature Range		+ 59 … + 131 / + 15 … + 55		°F / °C
Control range (adjustable)	SC	+ 77 … + 113 / + 25 … + 45; factory setting + 95 / + 35		
Refrigerant	type	R134a		
	quantity	1250		g
Condensate management		integrated condensate evaporation system with safety overflow		
Protection system according to EN 60529		NEMA 12 against enclosure when properly installed		
		NEMA 1 towards the surroundings when properly installed		

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

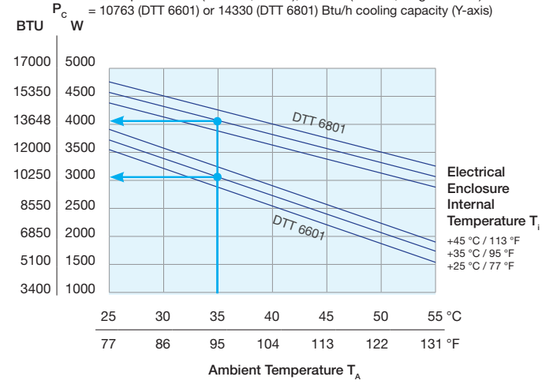
Available Models:

DTT 6601 **DTT 6801**

Cooling Capacity Performance Curve

How to use this chart

Example: @ 95 °F (ambient, X-axis), @ 95 °F (internal, diagonal lines) = 10763 (DTT 6601) or 14330 (DTT 6801) Btu/h cooling capacity (Y-axis)



Note: Cooling capacity may vary between voltage and configurations.

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SPARE PART KITS

Original Parts - Only from Pfannenberg

In the event of a cooling unit failure, original Pfannenberg's spare parts are always in stock. Specific spare part kits are also available for each DTS range of Cooling Units to ensure the best reliability of your unit. By using our original spare parts, downtime is reduced to a minimum or longer downtimes are prevented. Individual spare parts are also available, please consult factory for details.

Why choose Pfannenberg's original parts:

Developed with each device, our parts are a perfect fit every time. They automatically benefit from every factory product improvement and upgrade, as well as from over 50 years of thermal management experience.

A long service life and a fair price make our original parts particularly economical.

Only with original parts from Pfannenberg can you be sure that ...

- They are the right parts.
- They fit.
- They are in stock.
- They can be delivered quickly.
- You don't lose any valuable time.
- The proper functionality is guaranteed.
- The guarantee for your whole unit remains intact.

We have bundled the most frequently requested spare parts and wearing parts into two kits: an electronics kit and a refrigeration kit. We ensure quick and global delivery with these, and help you to reduce possible downtime to a minimum.

Model Number	Voltage	Part number
Electric Kit - Includes Fans & Electronics Components.		
Electric Kit DTS 36x1	460 V	18886000000
	230 V	18886000001
Electric Kit DTS 34x1	460 V	18886000002
Electric Kit DTS 32x5	460 V	18886000003
	230 V	18886000004
	115 V	18886000005
Electric Kit DTS 32x1	460 V	18886000006
	230 V	18886000007
	115 V	18886000008
Electric Kit DTS 31x5	460 V	18886000009
	230 V	18886000010
	115 V	18886000011
Electric Kit DTS 31x1	460 V	18886000012
	230 V	18886000013
	115 V	18886000014
Electric Kit DTS 3061/3081	230 V	18886000015
	115 V	18886000016
Electric Kit DTS 3031	230 V	18886000017
	115 V	18886000018
Electric E-Box Kit		
Electric E-Box Kit DTS 31x1	-	18886000019
Electric E-Box Kit DTS 32x5	-	18886000020

Model Number	Voltage	Part number
Refrigeration Kit - Includes Compressor, Expansion Valve, Pressure Switch.		
Refrig. Kit DTS 36x1	460 V	18886100000
	230 V	18886100001
Refrig. Kit DTS 34x1	460 V	18886100002
Refrig. Kit DTS 32x5	460 V	18886100003
	230 V	18886100004
	115 V	18886100005
Refrig. Kit DTS 32x1	460 V	18886100006
	230 V	18886100007
	115 V	18886100008
Refrig. Kit DTS 31x5	460 V	18886100009
	230 V	18886100010
	115 V	18886100011
Refrig. Kit DTS 31x1	230 V	18886100012
	460 V	18886100013
	115 V	18886100014
Refrig. Kit DTS 3061/3081	230 V	18886100015
	115 V	18886100016

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

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FILTER KITS

For harsh, dirty environments

Model Number	Description	Part number
Filter Kit		
Filter Kit DTS 3021/3031	Aluminum Mesh	18881500008
Filter Kit DTS 3041/3061	Aluminum Mesh	18881500005
Filter Kit DTS 31xx	Aluminum Mesh	18881500009
Filter Kit DTS 31x1 SL / 31x5	Aluminum Mesh	18380000025
Filter Kit DTS 32xx	Aluminum Mesh	18881500001
Filter Kit DTS 32x5	Aluminum Mesh	18881500007
Filter Kit DTS 34xx	Filter Kit (w/5 pack of filter media)	18881500010
Filter Kit DTS 36xx	Aluminum Mesh	18881500004

ACCESSORIES

To add more flexibility to your unit

Internal Enclosure and Panel Fans

Distribution of cold air inside the control cabinet

Model Number	Part number
PFP 100 4" panel fan 115 V	18103000000
PFP 100 4" panel fan 230 V	18103000001
PFP 200 6" panel fan 115 V	18103000002
PFP 200 6" panel fan 230 V	18103000003

Fan Bracket

(Not included with Panel Fan)

Model Number	Compatible with	Part number
PFP-BK 100	PFP 100	002006182
PFP-BK 200	PFP 200	002006183

Additional Finger Guards

1 comes with PFP Unit

Model Number	Compatible with	Part number
PFP-FG 100	PFP 100	005059200
PFP-FG 200	PFP 200	005059201

Condensate Bottle

External container for collecting the accumulating condensed water.

Compatible with	Part number
All units	18314000100

External Condensate Evaporation System-KV PTC

External condensate evaporator for the accumulated condensed water.

Compatible with	Part number
115 - 230 V 50 / 60 Hz	18314000001

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