

Thermal Management Solutions

Cooling Units • Air/Water Heat Exchangers • Chillers
Filterfans® • Heaters, Thermostats and Hygrostats

Main Catalog • Edition 11







Thermal Protection for Critical Electronics

DTS 3000, DTT 6000 and DTI 9000 Series Cooling Units

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

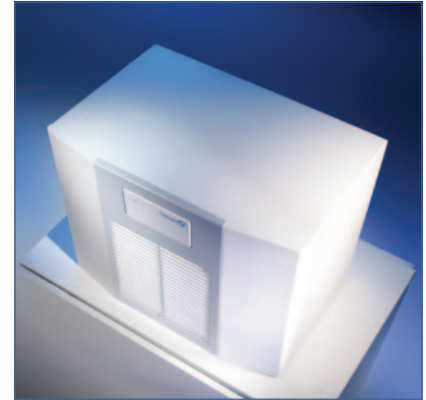
Our DTS 3000 Series is driven to meet the demands of our North American NEMA market. These units meet the needs on indoor NEMA Type 12 applications, NEMA 3R/4 outdoor applications and NEMA Type 4/4x stainless steel for washdown applications.

An absolute world innovation: the DTT Series. The 6000 Series top mounted cooling units offer unique security through the innovative, patented condensate management system and it is installable in the most limited of spaces.

The DTI 9000 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 half.

DTT Top Mounted Cooling Units

Featuring a unique, patented condensate management system which prevents all condensate from penetrating into the electrical enclosure. The very small installation size also means that you can install your electrical enclosures in a row to save space.



Further advantages of the DTT Series:

- **Excellent security level** due to patented condensate management system
- **Perfect service-friendliness** and long maintenance intervals
- **Product variety:** 3 installation sizes with 6 performance levels available
- **Modern design** and large selection of surface finishes and colors
- **Environmental protection** thanks to energy efficiency and recyclability
- **Easy mounting:** quick release mounting frame

The proven industry standard: DTI/DTS Cooling Units for partially-recessed and side mounted installation



Innovative Technology

- Condenser with 3 mm fin spacing, highly effective protection against strongly contaminated ambient air
- Large distance between intake and exhaust vents, safe circulation within the electrical enclosure due to long passage of air, therefore hot spots are eliminated
- Standard controller allows for quick set up and error reporting to customer

Ease of Service and Mounting

- Integrated Cooling System[®]: DTI 9x41, mounted by 1 man in 2 minutes
- Easy access to fans and electronics for quick changes in the field

High Variability

- Integrated condensate evaporation system
- Coated condensers and pipes standard for all outdoor and washdown NEMA units
- High pressure switches to protect compressors are standard on ALL Pfannenberg Cooling Units
- Integrated Cooling System[®]: one mounting cut-out for 5 different performances

Conforms to International Standards

- Global approval such as CE, UL, cUL, some GOST for Russia and CSA for Canada
- DTS Cooling Units up to protection class NEMA 4/4X

Type	Cooling Capacity Btu/h	Rated Voltage	Dimensions H x W x D Inches (mm)	Approvals				Page
				UL	cUL	GOST	CE	
DTS Series Indoor Side Mount NEMA Type 12 Cooling Units								
DTS 1200	900 - 1200	115 V / 230 V	13 (330) x 14.76 (375) x 7.48 (190)	●	●		●	15
DTS 3021	90-1300	115 V / 230 V	15.5 (393.7) x 7 (177.8) x 7.75 (196.8)	●	●		●	17
DTS 2000	1500 - 2000	115 V / 230 V	17.52 (445) x 12.4 (315) x 10.04 (255)	●	●		●	19
DTS 3041	2000 - 3000	115 V / 230 V	20.16 x 10.08 x 10.79 (512 x 256 x 274)	●	●		●	21
DTS 3141	3000 - 4000	115 V / 230 V / 400/460 V	29.45 x 15.55 x 11.57 (748 x 395 x 294)	●	●		●	23
DTS 3141 SL	3000 - 5000	115 V / 230 V / 400/460 V	36 (914) x 12 (305) x 12 (302)	●	●		●	25
DTS 3145	5000 - 6000	115 V / 230 V / 400/460 V	36 (914) x 12 (305) x 12 (302)	●	●		●	27
DTS 3241	7000 - 8500	115 V / 230 V / 460 V	47.60 x 15.55 x 12.83 (1209 x 395 x 326)	●	●		●	29
DTS 3245	9000 - 12000	115 V / 230 V / 400/460 V	53 (1347) x 16.2 (411) x 11.9 (301)	●	●		●	31
DTS 3341	12000 - 14000	230 V / 400 V / 460 V	59.13 x 15.87 x 18.42 (1502 x 403 x 363)	●	●		●	33
DTS 3541	16000 - 18000	230 V / 400 V / 460 V	59.13 x 19.02 x 21.02 (1502 x 483 x 428)	●	●		●	35
DTS 3641	20000 - 24000	230 V / 400 V / 460 V	65.63 x 19.02 x 25.53 (1667 x 483 x 518)	●	●		●	37

Type	Cooling Capacity Btu/h	Rated Voltage	Dimensions H x W x D Inches (mm)	Approvals				Page
				UL	cUL	GOST	CE	
DTT Series Top Mount NEMA 12 Cooling Units								
DTT 6101	1200 - 2000	115 V / 230 V	17.13 x 23.43 x 15.55 (435 x 595 x 395)	●	●		●	39
DTT 6201	2500 - 4000	115 V / 230 V / 400/460 V	17.13 x 23.43 x 15.55 (435 x 595 x 395)	●	●		●	39
DTT 6301	4000 - 5500	115 V / 230 V / 460 V	17.13 x 23.43 x 19.49 (435 x 595 x 495)	●	●		●	41
DTT 6401	5500 - 7000	115 V / 230 V / 460 V	17.13 x 23.43 x 19.49 (435 x 595 x 495)	●	●		●	41
DTT 6601	7000 - 10000	460 V	19.09 x 31.30 x 22.64 (485 x 795 x 575)	●	●		●	43
DTT 6801	12000 - 14000	460 V	19.09 x 31.30 x 22.64 (485 x 795 x 575)	●	●		●	43
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 7.75 (196.8)	●	●		●	47
DTS 3061	2000 - 3000	115 V / 230 V	20.16 x 10.08 x 10.79 (512 x 256 x 274)	●	●		●	49
DTS 3161	3000 - 4000	115 V / 230 V / 400/460 V	29.45 x 15.55 x 11.57 (748 x 395 x 294)	●	●		●	51
DTS 3161 SL	3000 - 5000	115 V / 230 V / 400/460 V	36 (914) x 12 (305) x 12 (302)	●	●		●	53
DTS 3165	5000 - 7000	115 V / 230 V / 400/460 V	36 (914) x 12 (305) x 12 (302)	●	●		●	55
DTS 3261	7000 - 8500	115 V / 230 V / 460 V	47.60 x 15.55 x 12.83 (1209 x 395 x 326)	●	●		●	57
DTS 3265	9000 - 12000	115 V / 230 V / 400/ 460 V	53 (1347) x 16.2 (411) x 11.9 (301)	●	●		●	59
DTS 3361	12000 - 14000	230 V / 400 V / 460 V	59.13 x 15.87 x 18.42 (1502 x 403 x 468)	●	●		●	61
DTS 3561	16000 - 18000	230 V / 400 V / 460 V	59.13 x 19.02 x 21.02 (1502 x 483 x 534)	●	●		●	63
DTS 3661	20000 - 24000	230 V / 400 V / 460 V	65.63 x 19.02 x 25.53 (1667 x 483 x 623)	●	●		●	65
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 7.75 (196.8)	●	●		●	69
DTS 3081	2000 - 3000	115 V / 230 V	20.16 x 10.08 x 10.79 (512 x 256 x 274)	●	●		●	71
DTS 3181	3000 - 4000	115 V / 230 V / 400/460 V	29.45 x 15.55 x 11.57 (748 x 395 x 294)	●	●		●	73
DTS 3181 SL	3000 - 5000	115 V / 230 V / 400/460 V	36 (914) x 12 (305) x 12 (302)	●	●		●	75
DTS 3185	5000 - 7000	115 V / 230 V / 400/ 460 V	36 (914) x 12 (305) x 12 (302)	●	●		●	77
DTS 3281	7000 - 8500	115 V / 230 V / 460 V	47.60 x 15.55 x 12.83 (1209 x 395 x 326)	●	●		●	79
DTS 3285	9000 - 12000	115 V / 230 V / 400/ 460 V	53 (1347) x 16.2 (411) x 11.9 (301)	●	●		●	81
DTS 3381	12000 - 14000	230 V / 400 V / 460 V	59.13 x 15.87 x 18.42 (1502 x 403 x 468)	●	●		●	83
DTS 3581	16000 - 18000	230 V / 400 V / 460 V	59.13 x 19.02 x 21.02 (1502 x 483 x 534)	●	●		●	85
DTS 3681	20000 - 24000	230 V / 400 V / 460 V	65.63 x 19.02 x 25.53 (1667 x 483 x 623)	●	●		●	87
DTI Series Integrated/Recessed (European)								
DTS 9011H	300 W	115 V / 230 V	11.81 x 19.49 x 5.51 (300 x 495 x 140)	●	●	○	●	91
DTI 9021	320 W	115 V / 230 V	12.95 x 15.16 x 9.92 (329 x 385 x 252)	●	●	●	●	93
DTI 9031	510 W	115 V / 230 V / 460 V	22.13 x 12.21 x 8.35/8.35/13.90 (562 x 310 x 212/212/353)	●	●	●	●	95
DTI 9241	1000 W	230 V / 400 / 460 V	60.59 x 19.09 x 7.09 (1536 x 485 x 180)	●	●	●	●	97
DTI 9341	1500 W	230 V / 400 / 460 V	60.59 x 19.09 x 7.09 (1536 x 485 x 180)	●	●	●	●	97
DTS 9441	2000 W	230 V / 400 / 460 V	60.59 x 19.09 x 9.45 (1536 x 485 x 240)	●	●	●	●	99
DTS 9541	2500 W	230 V / 400 / 460 V	60.59 x 19.09 x 9.45 (1536 x 485 x 240)	●	●	●	●	99
DTS 9841	4000 W	400 / 460 V	60.59 x 19.09 x 14.17 (1539 x 485 x 360)	●	●	●	●	101
Thermal-Electric Peltier Indoor Cooling Units								
PTM 100	100 W	24 VDC	14.45 (367) x 7.13 (181) x 8.9 (226)				●	103
PTM 150	150 W	24 VDC	19.49 (495) x 7.13 (181) x 8.9 (226)				●	103
DTS Series Water Cooled Cooling Units								
DTS 31X5 WC	6000-8000	VDC		●	●		●	107
DTS 32X5 WC	10000 - 12000	VDC		●	●		●	107
DTS Series High Temperature Cooling Units								
DTS 3265 HT	2800 W	230 V ONLY	53 (1347) x 16.2 (411) x 11.9 (301)	●	●		●	109
DTS 3165 HT	1600 W	230 V ONLY	36 (914) x 12 (305) x 12 (302)	●	●		●	109
DTS 3061 HT	600W	230 V ONLY	20.16 x 10.08 x 10.79 (512 x 256 x 274)	●	●		●	109

● available
○ pending

Cooling Capacity Performance Curve

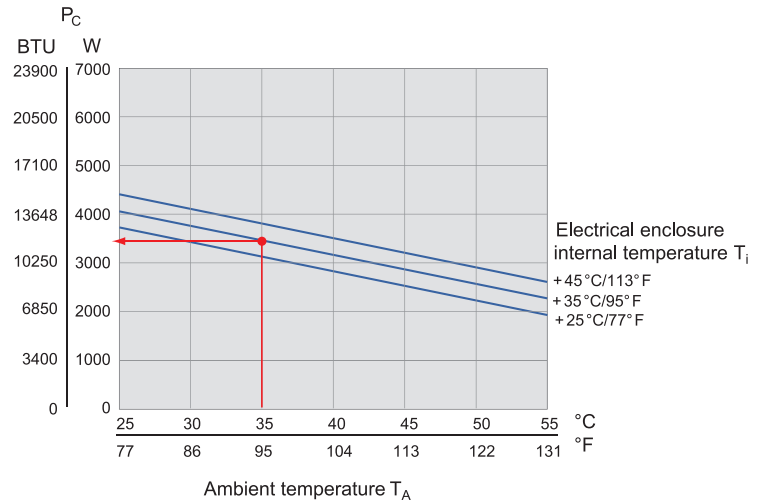
DTS 3381

How to use chart

Example:

@ 95° F (ambient, X-axis), @ 95° F
(internal, diagonal lines)

= 11250 Btu/h cooling capacity (Y-axis)



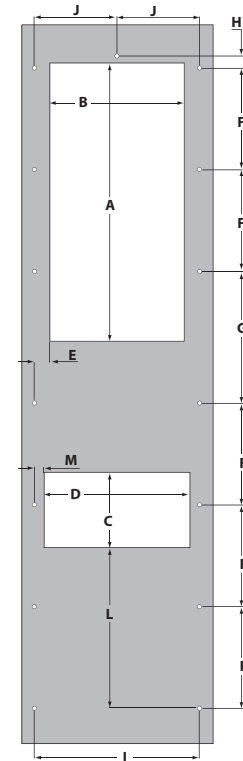
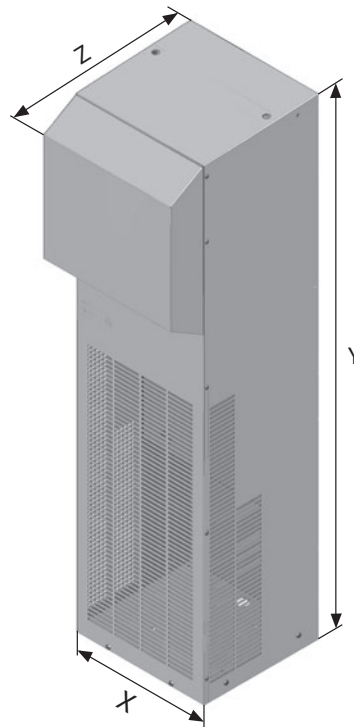
Dimensions

DTS 3381

Dimension	inches (mm)
X	15.87 (403)
Y	59.13 (1502)
Z	18.43 (468)
A	23.23 (590)
B	11.22 (285)
C	6.3 (160)
D	12.2 (310)
E	12.8 (325)
F	8.5 (216)
G	11.02 (280)
H	1.02 (26)
I	13.78 (350)
J	6.89 (175)
K	11.02 (280)
L	13.39 (340)
M	.79 (20)

Mounting holes $\varnothing$ 8 mm

For exact cutout information reference
drilling template at pfannenbergusa.com



DTS 3581 (NEMA 4/4X)

Cooling Unit 16000 - 18000 Btu/h

- Large distance between intake and exhaust vents, safe circulation within the electrical enclosure due to long passage of air, therefore hot spots are eliminated
- Maintains a UL Tested NEMA Type 4/4X seal against enclosure
- UL 484 Listed, category ACVS, UL file #SA10300, CE approved for European use
- Maintenance-free design, filterless for most applications
- 304 Stainless steel cover to match enclosures, with # 3 polish
- Condenser with 3 mm fin spacing, highly effective protection against strongly contaminated and aggressive ambient air
- Particularly suitable for food and beverage, wastewater and pump applications
- Utilizes a thermal expansion valve (TXV) to ensure maximum performance over a broad range



Data		DTS 3581 (NEMA Type 4/4X)		Unit
Part number	304 Stainless Steel	13383536158	13383539158	
Rated voltage ± 10 %		400 / 460 3Ø	230	VAC
Frequency		50 / 60	60*	Hz
Cooling performance according to EN 14511		16000 - 18000		Btu/h
Power consumption		1365 / 1815	2240	W
Nominal (Run) Current @ 35A/35A °C		4.4	9.2	A
Starting current		16	49.3	
Unimpeded airflow (free flow)	internal	788 (1340)		CFM (m³/h)
	external	1480 (2380)		
Fuse (Recommended) Class CC		15	30	A
Type of connection		permanent screw terminal		
Noise level (according to EN ISO 3741)		< 72		dB(A)
Weight (without packaging)		221 (100)		lb (kg)
Ambient temperature range		+ 32 ... + 131 / + 0 ... + 55		°F / °C
Control range (adjustable)	SC	+ 77 ... + 113 / + 25 ... + 45; factory setting + 95 / + 35		
Refrigerant	type	R134a		
	quantity	1200		g
Duty cycle		100 %		
Condensate management		active condensate evaporation system with safety overflow		
Protection system according to NEMA type		NEMA Type 4/4X against enclosure when properly installed		
		NEMA Type 1 towards the surroundings when properly installed		
Design	housing	galvanized sheet steel		
	cover	304 stainless steel		

*50 Hz unit available. Consult factory.

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

Option(s)	Piece	Part number	Information on page
1400 W Enclosure Heater	1	Consult Factory	-
Accessories	Piece	Part number	Information on page
Metal Mesh Filter	1	18881500003	94
Condensate bottle	1	18314000100	94

Approvals see page 11/12

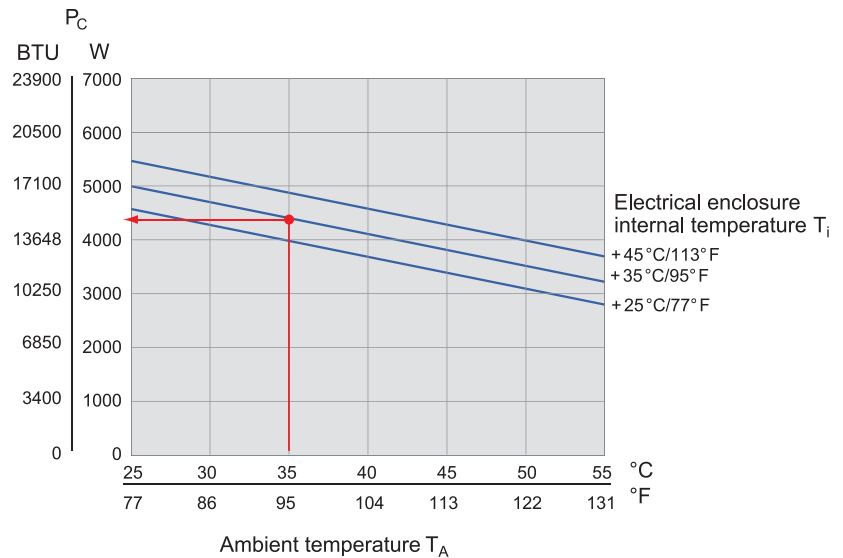
Cooling Capacity Performance Curve

DTS 3581

How to use chart

Example:

@ 95° F (ambient, X-axis),
@ 95° F (internal, diagonal lines)
= 15200 Btu/h cooling capacity (Y-axis)



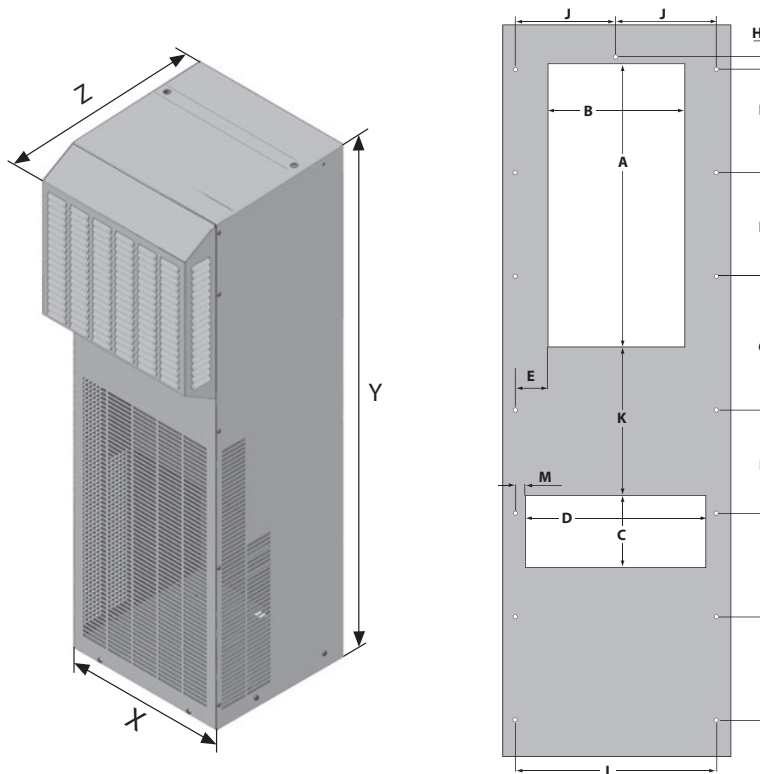
Dimensions

DTS 3581

Dimension	inches (mm)
X	19.02 (483)
Y	59.13 (1502)
Z	21.02 (534)
A	23.23 (590)
B	11.22 (285)
C	5.91 (150)
D	14.96 (380)
E	2.66 (67.5)
F	8.5 (216)
G	11.02 (280)
H	1.02 (26)
I	16.54 (420)
J	8.27 (210)
K	12.2 (310)
L	12.6 (320)
M	.79 (20)

Mounting holes $\varnothing$ 10 mm

For exact cutout information reference
drilling template at pfannenbergusa.com



DTS 3681 (NEMA 4/4X)

Cooling Unit 20000 - 24000 Btu/h

- Large distance between intake and exhaust vents, safe circulation within the electrical enclosure due to long passage of air, therefore hot spots are eliminated
- Maintains a UL Tested NEMA Type 4/4X seal against enclosure
- UL 484 Listed, category ACVS, UL file #SA10300, CE approved for European use
- Maintenance-free design, filterless for most applications
- 304 Stainless steel cover to match enclosures, with # 3 polish
- Condenser with 3 mm fin spacing, highly effective protection against strongly contaminated and aggressive ambient air
- Particularly suitable for food and beverage, wastewater and pump applications
- Utilizes a thermal expansion valve (TXV) to ensure maximum performance over a broad range



Data		DTS 3681 (NEMA Type 4/4X)		Unit
Part number	304 Stainless Steel	13383936158	13383939158	
Rated voltage ± 10 %		400 / 460 3Ø	230	VAC
Frequency		50 / 60	60*	Hz
Cooling performance according to EN 14511		20000 - 24000		W
Power consumption		2000/2620	3142	
Nominal (Run) Current @ 35A/35A °C		4.8	15	A
Starting current		25	84	
Unimpeded airflow (free flow)	internal	1613 (2740)		CFM (m³/h)
	external	1613 (2740)		
Fuse (Recommended)** Class CC		15	35	A
Type of connection		permanent screw terminal		
Noise level (according to EN ISO 3741)		< 73		dB(A)
Weight (without packaging)		230 (105)		lb (kg)
Ambient temperature range		+ 32 ... + 131 / + 0 ... + 55		°F / °C
Control range (adjustable)	SC	+ 77 ... + 113 / + 25 ... + 45; factory setting + 95 / + 35		
Refrigerant	type	R134a		
	quantity	1300		g
Duty cycle		100 %		
Condensate management		active condensate evaporation system with safety overflow		
Protection system according to NEMA type		NEMA Type 4/4X against enclosure when properly installed		
		NEMA Type 1 towards the surroundings when properly installed		
Design	housing	galvanized sheet steel		
	cover	304 stainless steel		

*50 Hz unit available. Consult factory.

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

Option(s)	Piece	Part number	Information on page
1400 W Enclosure Heater	1	Consult Factory	-
Accessories	Piece	Part number	Information on page
Metal Mesh Filter	1	18881500004	94
Condensate bottle	1	18314000100	94

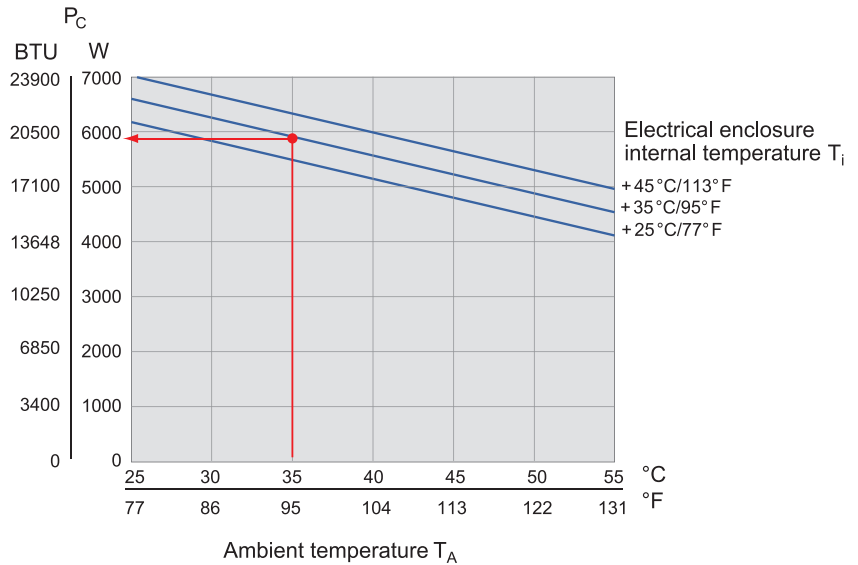
Approvals see page 11/12

Cooling Capacity Performance Curve

DTS 3681

How to use chart

Example:
@ 95° F (ambient, X-axis),
@ 95° F (internal, diagonal lines)
= 20500 Btu/h cooling capacity (Y-axis)



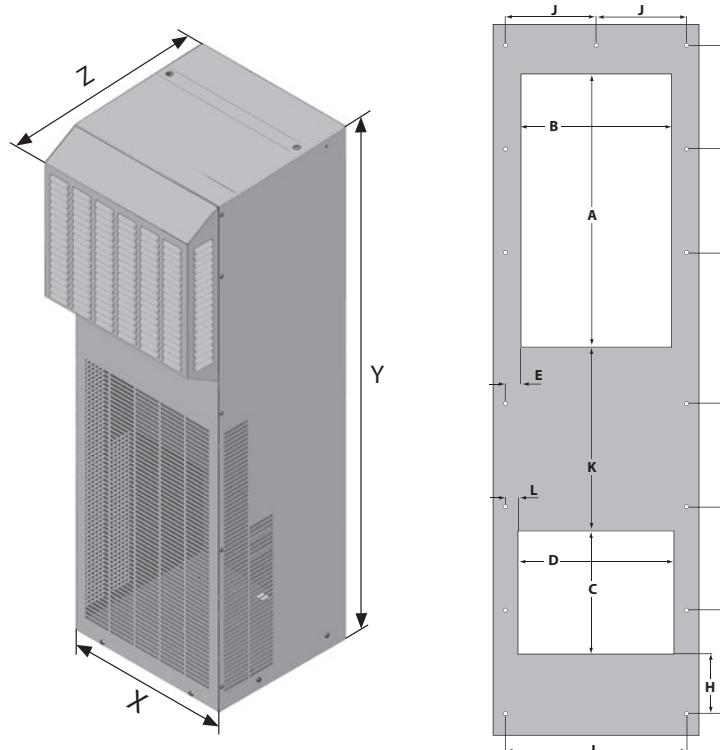
Dimensions

DTS 3681

Dimension	inches (mm)
X	19.02 (483)
Y	65.63 (1667)
Z	24.53 (623)
A	25 (635)
B	13.78 (350)
C	11.22 (285)
D	10.24 (260)
E	1.38 (35)
F	9.45 (240)
G	13.78 (350)
H	5.47 (139)
I	16.54 (420)
J	8.27 (210)
K	16.73 (425)
L	1.12 (28.5)

Mounting holes $\varnothing$ 10 mm

For exact cutout information reference drilling template at pfannenbergusa.com



Integrated/Recessed Cooling Units

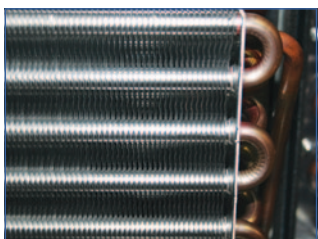
Features/Benefits:

Pfannenberg strives to provide a relatively maintenance free design for our customers. All our designs have additional options including:

Filter Kits - for special applications like wood and machine tool that need an external filter to prevent clogging of the condenser core.

Fastest Mounting - Utilizing our patented "Click & Fit" system, mounting times are reduced significantly.

Universal Voltages - Many of our cooling units have been designed for both 50/60 Hz applications as well as 400 or 460 V operations with a simple tap change on an internal transformer.



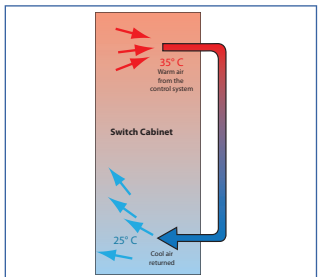
Wide Condenser Fin Spacing / Coated Condenser & Pipes

This filter-free design also reduces the amount of maintenance required by the customer. A quick cleaning of the condenser is required less frequently versus the competition's models, while capacity is not compromised by easy clogging of the condenser core.



Rugged, Long-lasting Backward Curved Impeller Fans

Utilizing this type of fan, our cooling units can go twice as long before needing service versus a typical blower style fan that has smaller, low-cost and high maintenance bearings.



Proper Long Internal Air Flow Paths

The backward curve fan also has a natural right angle air path that allows our cooling units to capture hot air from the top of the electrical cabinet and deposit cool, dry air to the bottom of the cabinet and underneath critical components on the panel.



Hermetically Sealed Refrigeration Circuit

Utilizing a maintenance free design, Pfannenberg implements a hermetically sealed design that **eliminates gasketed valves** and the leak source for many other A/C unit designs. Therefore, our cooling units do not need annual maintenance to determine if the unit is properly charged with R134a refrigerant.



Standard Control Board

Controlling temperature and alarm setting via dip-switches, preventing airflow short cycling, high pressure switch alarm, on/off control of compressor with built-in delay timer and a LED lamp with four different flashing sequences. The control board is located in inner air circuit for protection from heat and dirt.

Application Examples

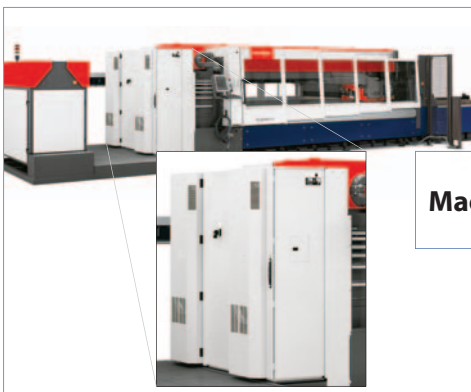
The following are just a few examples of the industries and applications in which Pfannenberg's Integrated / Recessed Cooling Units can be utilized. Call us today to find out how you can cut costs by keeping your processes, whatever they may be, up and running with reliability you can count on.



**Long Cabinets
Textile / Auto**



Corrugate Packaging



Machine Tool / Woodworking



DTS 9011H**Cooling Unit 900 - 1200 Btu/h**

- Service-friendly, compact design
- Small mounting area, ideal for small electrical enclosures and larger electrical enclosures for the cooling of hot spots
- Simple and fast mounting with brackets for door or side mounting
- Great for consoles and low profile cabinets
- Logic connector for door contact input and active alarm
- 100% reliability with controllers by Pfannenberger

Data		DTS 9011H		Unit
Part number	RAL 7035 (Lt. Gray)	13242541055	13242544055	
		AC 50 Hz / 60 Hz		
Rated voltage ± 10 %		230	115 ¹	VAC
		AC 50 / 60		Hz
Cooling performance according to EN 14511		900 - 1200 Btu/h		Btu/h
Power consumption		275 / 290	295	W
Nominal (Run) Current		1.52 / 1.56	2.6	A
Starting current		4.52 / 4.66	5.1	
Unimpeded airflow (free flow)	internal	94 (160)		CFM m³/h
	external			
Fuse (Recommended)		16		A
Type of connection		spring-type terminal included with plug		
Noise level (according to EN ISO 3741)		< 65		dB(A)
Weight		33 (15)		lb (kg)
Ambient temperature range		+ 55 ... + 15 / + 131 ... + 59		°F / °C
Control range (adjustable)		+ 77 ... + 113 / + 25 ... + 45; factory setting + 95 / + 35		
Refrigerant	type	R134a		
	quantity	130		g
Duty cycle		100 %		
Condensate management		Integrated Condensate Management System with Condensate Drain		
Protection system according to EN 60529		NEMA Type 12 against enclosure when properly installed		
		NEMA Type 1 towards the surroundings when properly installed		
Design	housing	galvanized sheet steel		
	cover	galvanized/electrostatically powder coated (200 °C); stainless steel on request		

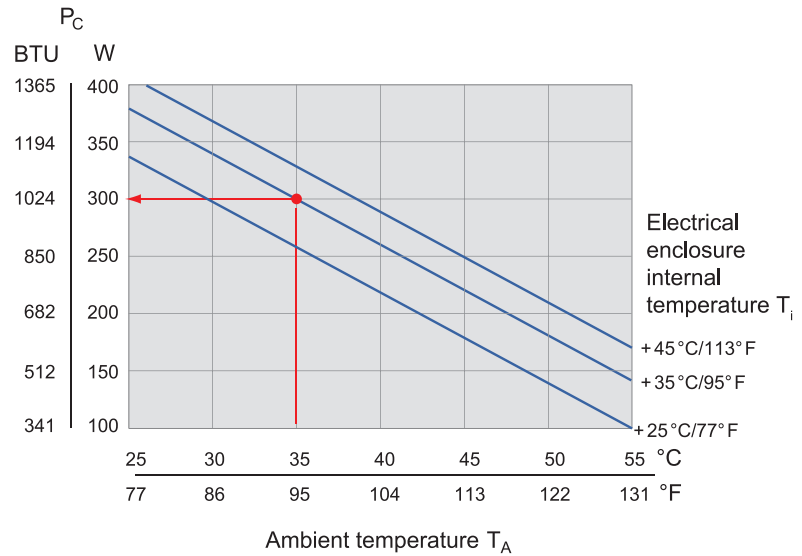
Accessories	Piece	Part number	Information on page
External condensate evaporation system	1	18314000001	94
Condensate bottle	1	18314000100	94

¹ performance data based on 60 Hz operation
Approvals see page 11/12

Cooling Capacity Performance Curve

DTS 9011H

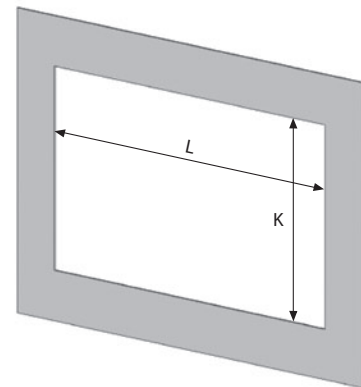
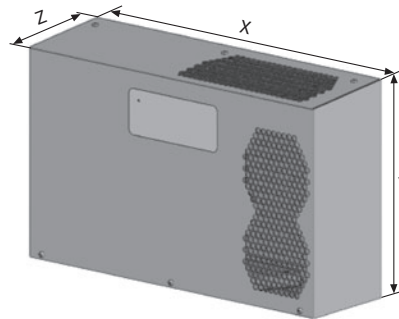
How to use chart
Example:
@ 95° F (ambient, X-axis),
@ 95° F (internal, diagonal lines)
= 2320 Btu/h (680 W)
cooling capacity (Y-axis)



Dimensions

DTS 9011H

Dimension	inches (mm)
X	19.5 (495)
Y	11.8 (300)
Z	5.5 (140)
K	11.1 (281)
L	18.5 (471)



DTI 9021

Cooling Unit 950 - 1250 Btu/h

- Compact design, ideal for flat control cabinets, control consoles and operating units
- Diagnostic message via operating display
- Integrated fault and door contact
- Optionally available with integrated condensate evaporation system



Data		DTI 9021		Unit
Part number	RAL 7035 (Lt. Gray)	13293041055	13293044055	
Rated voltage ± 10 %		230	115 ¹	VAC
		AC 50 / 60		Hz
Cooling performance according to EN 14511		950 - 1250		Btu/h
Power consumption		230 / 240	240	W
Nominal (Run) Current		1.6	2.7	A
Starting current		11.7 / 10.9	11.4	
Unimpeded airflow (free flow)	internal	166 (282)		CFM (m³/h)
	external			
Fuse (Recommended)		6		A
Type of connection		spring-type terminal included with plug		
Noise level (according to EN ISO 3741)		< 62		dB(A)
Weight (without packaging)		37.5 (17)		lb (kg)
Ambient temperature range		+ 55 ... + 15 / + 131 ... + 59		°F / °C
Control range (adjustable)		+ 77 ... + 113 / + 25 ... + 45; factory setting + 95 / + 35		
Refrigerant	type	R134a		
	quantity	350		g
Duty cycle		100 %		
Condensate management		Integrated Condensate Management System with Condensate Drain; integrated condensate evaporation system optional		
Protection system according to EN 60529		NEMA Type 12 against enclosure when properly installed		
		NEMA Type 1 towards the surroundings when properly installed		
Design	housing	galvanized sheet steel		
	cover	galvanized/electrostatically powder coated (200 °C); stainless steel on request		

Accessories	Piece	Part number	Information on page
External condensate evaporation system	1	18314000001	94
Condensate bottle	1	18314000100	94

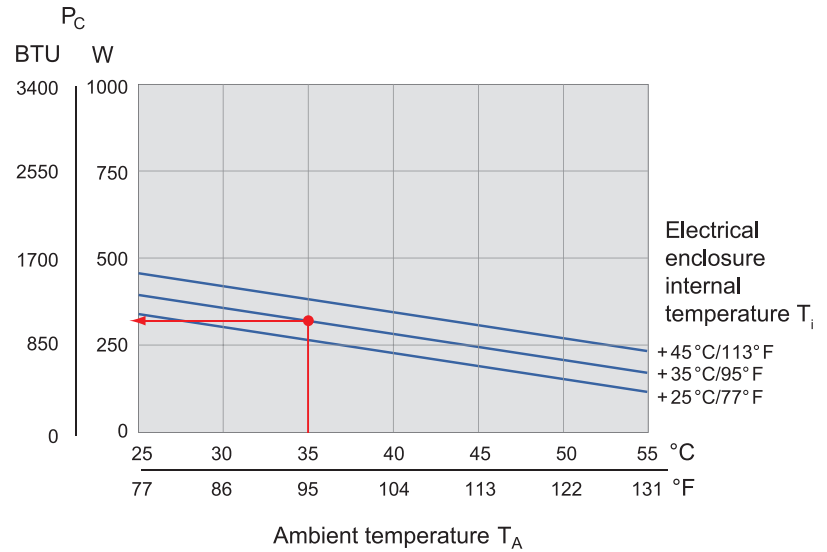
¹ performance data based on 60 Hz operation
Approvals see page 11/12

Cooling Capacity Performance Curve

DTI 9021

How to use chart

Example:
@ 95° F (ambient, X-axis),
@ 95° F (internal, diagonal lines)
= 2320 Btu/h (680 W)
cooling capacity (Y-axis)



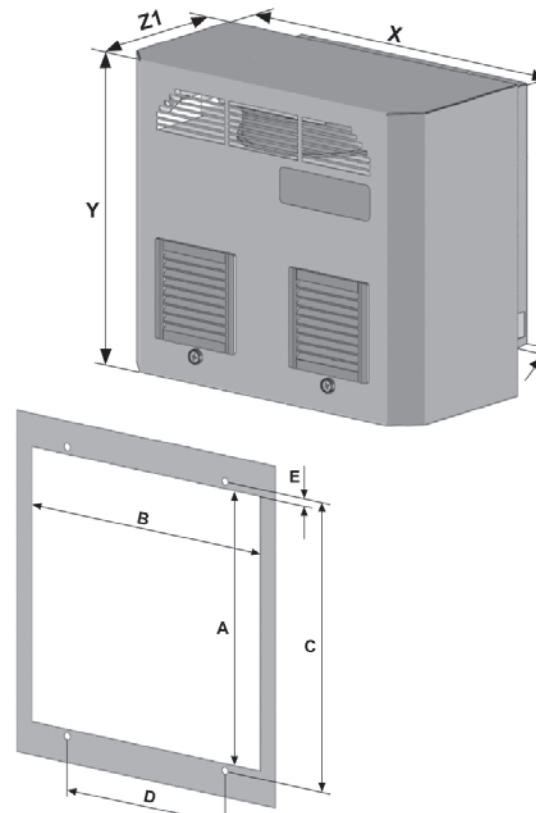
Dimensions

DTI 9021

Dimension	inches (mm)
X	15.16 (385)
Y 115 / 230 V	12.95 (329)
Z1	7.01 (178)
Z2	2.64 (67)
A	11.38 (289)
B	11.97 (304)
C	11.97 (304)
D	8.27 (210)
E	.3 (7.5)

Mounting holes $\varnothing$ 8 mm and cut-out radii R20

For exact cutout information reference drilling template at pfannenbergusa.com



DTI 9031**Cooling Unit 1700 - 2000 Btu/h****DTI: for partially recessed mounting of the cooling unit in the door or side**

- Suitable for use with a door width of 400 mm
- Large distance between intake and exhaust vents, safe circulation within the electrical enclosure due to long passage of air, therefore hot spots are eliminated
- Integrated fault and door contact
- DTI variants: fast mounting without drilling and adhering the electrical enclosure seal



Data				Unit
Part number	RAL 7035 (Lt. Gray)	13295041055	13295044055	
Rated voltage ± 10 %		230	115	VAC
		AC 50 / 60		Hz
Cooling performance according to EN 14511		1700 - 2000		Btu/h
Power consumption		283 / 337	322	W
Nominal (Run) Current		1.58 / 1.64	3.29	A
Starting current		14.31 / 13.8	26.15	
Unimpeded airflow (free flow)	internal	164 (280)		CFM (m³/h)
	external	203 (345)		
Fuse (Recommended)		6	10	A
Type of connection		spring-type terminal included with plug		
Noise level (according to EN ISO 3741)		63		dB(A)
Weight (without packaging)	DTI	46 (21)		lb (kg)
Ambient temperature range		+ 55 ... + 15 / + 131 ... + 59		°F / °C
Control range (adjustable)	SC	+ 77 ... + 113 / + 25 ... + 45; factory setting + 95 / + 35		
Refrigerant	type	R134a		
	quantity	250		g
Duty cycle		100 %		
Condensate management		Integrated Condensate Management System with Condensate Drain		
Protection system according to EN 60529		NEMA Type 12 against enclosure when properly installed		
		NEMA Type 1 towards the surroundings when properly installed		
Design	housing	galvanized sheet steel		
	cover	galvanized/electrostatically powder coated (200 °C); stainless steel on request		

Accessories	Piece	Part number	Information on page
External condensate evaporation system	1	18314000001	94
Condensate bottle	1	18314000100	94

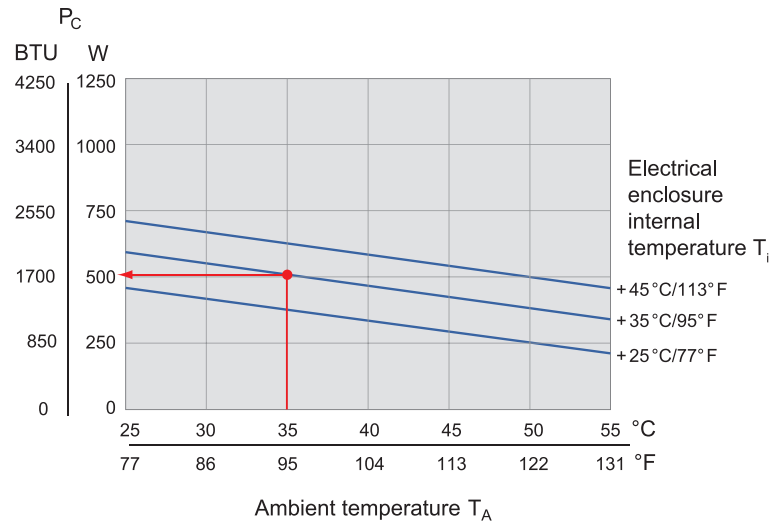
¹ performance data based on 60 Hz operation
Approvals see page 11/12

Cooling Capacity Performance Curve

DTI 9031

How to use chart

Example:
@ 95° F (ambient, X-axis),
@ 95° F (internal, diagonal lines)
= 2320 Btu/h (680 W)
cooling capacity (Y-axis)



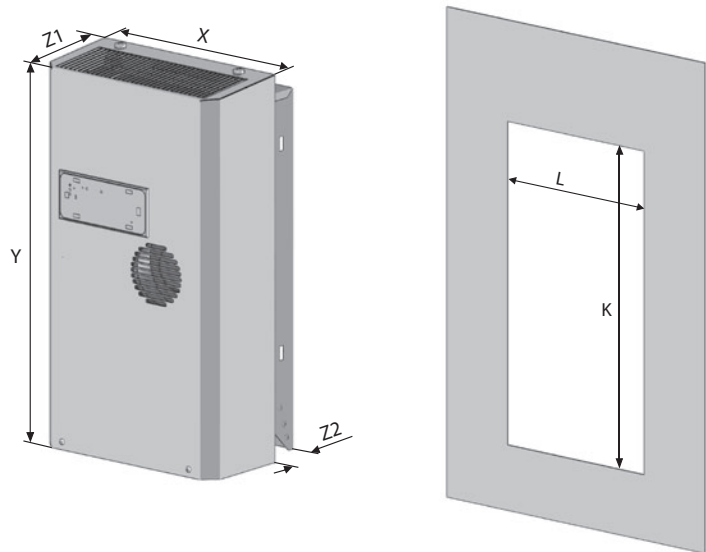
Dimensions

DTI 9031

Dimension	inches (mm)
X	15.16 (385)
Y	22.13 (562)
Z 115 / 230 V	7.01 (178)
K	11.38 (289)
L	11.97 (304)

DTI variants partially recessed by 67 mm after installation

For exact cutout information reference drilling template at pfannenbergusa.com



DTI 9241

Cooling Unit 3500 - 5000 Btu/h

DTI 9341

Cooling Unit 5000 - 6000 Btu/h

DTI: for partially recessed mounting of the cooling unit in the door or side

- Integrated Cooling System®: one mounting cut-out for 5 cooling performance ratings, mounted by 1 man in 2 minutes
- Condenser with 3 mm fin spacing, highly effective protection against strongly contaminated ambient air
- Large distance between intake and exhaust vents, safe circulation within the electrical enclosure due to long passage of air, therefore hot spots are eliminated
- Integrated fault and door contact
- Suitable for various supply voltages: 380 V / 400 V / 440 V / 460 V / 480 V
- Optionally available with integrated condensate evaporation system



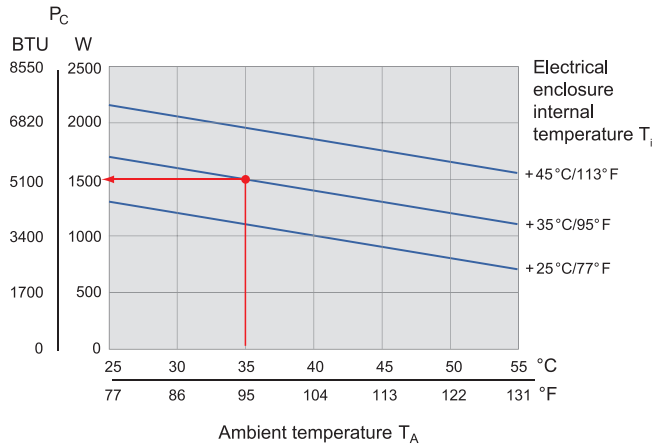
Data		DTI 9341			DTI 9241		Unit
Part number	RAL 7035 (Lt. Gray)	13269349055	13269341055	13269344055	13269249055	13269241055	
Rated voltage ± 10 %		400/460 1Ø	230	115	400/460 1Ø	230	VAC
		AC 50 / 60					Hz
Cooling performance according to EN 14511		5000 - 6000			3500 - 5000		Btu/h
Power consumption		840 / 1080	800 / 1040	1020 / 1740	780 / 960	740 / 910	W
Nominal (Run) Current		3.0 / 3.6	5.1 / 6.1	10.6 / 13	2.2 / 2.6	3.7 / 4.4	A
Starting current		12.9 / 12.0	21.4 / 19.9	32.2 / 37	6.9 / 11.1	11.5 / 18.5	
Unimpeded airflow (free flow)	internal	524 (890)					m³/h (CFM)
	external	524 (890)					
Fuse (Recommended)		6	16	16	4	16	A
Type of connection		spring-type terminal included with plug					
Noise level (according to EN ISO 3741)		< 62					dB(A)
Weight (without packaging)	DTI	121.25 (55)	110.23 (50)		121.25 (55)	110.23 (50)	lb (kg)
Ambient temperature range		+ 55 ... + 15 / + 131 ... + 59					°F / °C
Control range (adjustable)		+ 77 ... + 113 / + 25 ... + 45; factory setting + 95 / + 35					
Refrigerant	type	R134a					
	quantity	500					g
Duty cycle		100 %					
Condensate management		Integrated Condensate Management System with Condensate Drain; integrated condensate evaporation system optional					
Protection system according to EN 60529		NEMA Type 12 against enclosure when properly installed					
		NEMA Type 1 towards the surroundings when properly installed					
Design	housing	galvanized sheet steel					
	cover	galvanized/electrostatically powder coated (392 °F / 200 °C); stainless steel on request					

Accessories	Piece	Part number	Information on page
External condensate evaporation system	1	18314000001	94
Condensate bottle	1	18314000100	94
Pre-filter, aluminum	1	18329241010	94

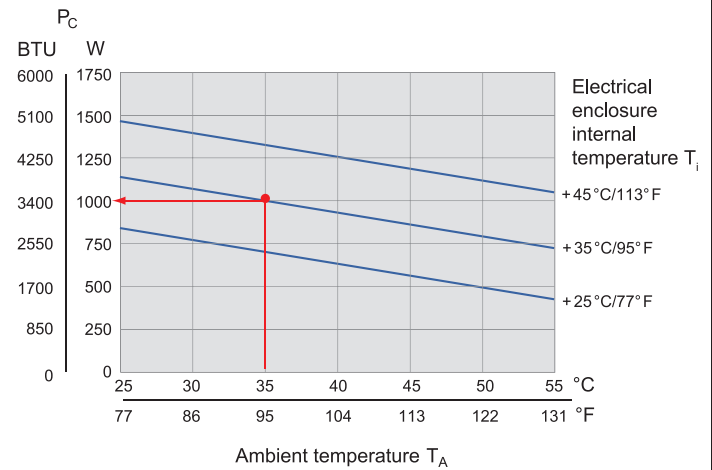
Approvals see page 11/12

Cooling Capacity Performance Curve

DTI 9341



DTI 9241



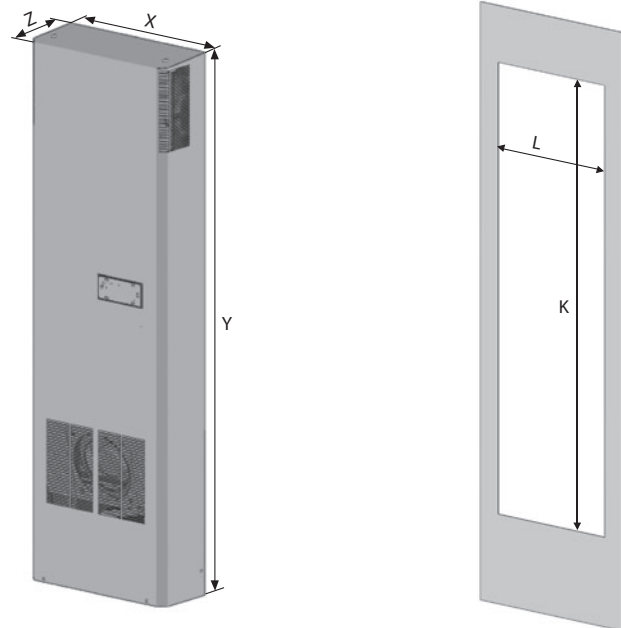
How to use chart

Example:
@ 95° F (ambient, X-axis), @ 95° F (internal, diagonal lines)

Dimensions

DTI 9341/9241

Dimension	inches (mm)
X	19.09 (485)
Y	60.47 (1536)
Z	7.09 (180)
K	59.45 (1510)
L	17.72 (450)
DTI variants partially recessed by 2.36" (60 mm) after installation	
For exact cutout information reference drilling template at pfannenbergusa.com	



DTI 9441**Cooling Unit 7000 - 9000 Btu/h****DTI 9541****Cooling Unit 9000 - 11000 Btu/h****DTI: for partially recessed mounting of the cooling unit in the door or side**

- Integrated Cooling System®: one mounting cut-out for 5 cooling performance ratings, mounted by 1 man in 2 minutes
- Condenser with 3 mm fin spacing, highly effective protection against strongly contaminated ambient air
- Large distance between intake and exhaust vents, safe circulation within the electrical enclosure due to long passage of air, therefore hot spots are eliminated
- Integrated fault and door contact
- Suitable for various supply voltages: 380 V / 400 V / 440 V / 460 V / 480 V
- Optionally available with integrated condensate evaporation system



Data		DTI 9541	DTI 9441	Unit
Part number	RAL 7035 (Lt. Gray)	13269532055	13269432055	
Rated voltage ± 10 %		400 / 460 3Ø	400 / 460 3Ø	VAC
		AC 50 / 60		Hz
Cooling performance according to EN 14511		9000 - 11000	7000 - 9000	Btu/h
Power consumption		1140 / 1450	880 / 1250	W
Nominal (Run) Current		3.5 / 3.9	3.2 / 3.7	A
Starting current		10.9 / 11.8	10.5 / 11.2	
Unimpeded airflow (free flow)	internal	524 (890)		CFM (m³/h)
	external	706 (1200)		
Fuse (Recommended)		16		A
Type of connection		spring-type terminal included with plug		
Noise level (according to EN ISO 3741)		< 65		dB(A)
Weight (without packaging)	DTI	148 (67)		lb (kg)
Ambient temperature range		+ 55 ... + 15 / + 131 ... + 59		°F / °C
Control range (adjustable)	SC	+ 77 ... + 113 / + 25 ... + 45; factory setting + 95 / + 35		
Refrigerant	type	R134a		
	quantity	1000		g
Duty cycle		100 %		
Condensate management		Integrated Condensate Management System with Condensate Drain; integrated condensate evaporation system optional		
Protection system according to EN 60529		NEMA Type 12 against enclosure when properly installed		
		NEMA Type 1 towards the surroundings when properly installed		
Design	housing	galvanized sheet steel		
	cover	galvanized/electrostatically powder coated (200 °C); stainless steel on request		

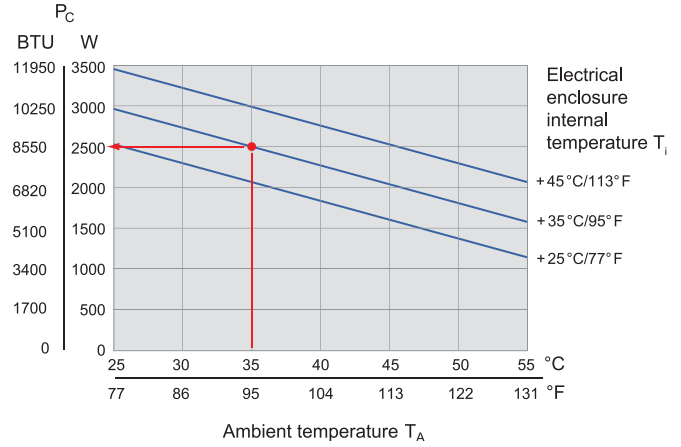
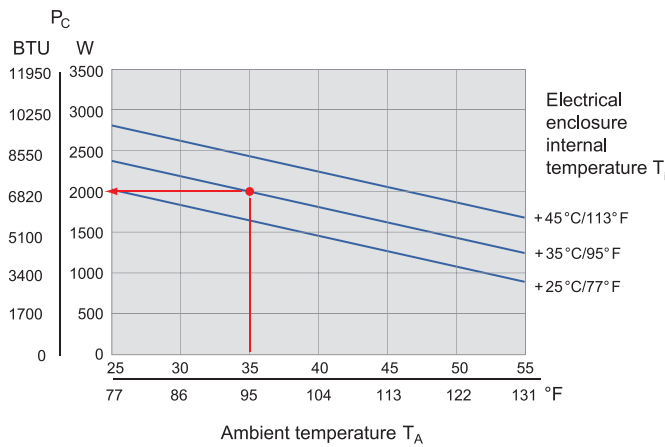
Accessories	Piece	Part number	Information on page
External condensate evaporation system	1	18314000001	94
Condensate bottle	1	18314000100	94
Pre-filter, aluminum	1	18329241010	94

Approvals see page 11/12

Cooling Capacity Performance Curve

DTI 9541

DTI9441



How to use chart

Example:
@ 95° F (ambient, X-axis), @ 95° F (internal, diagonal lines)
= 2320 Btu/h (680 W) cooling capacity (Y-axis)

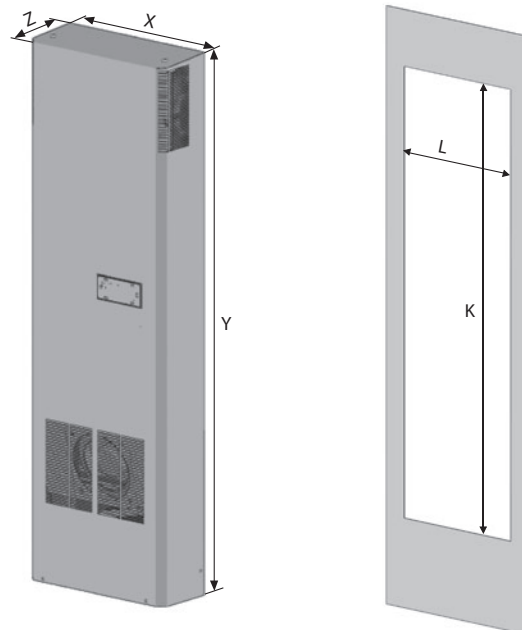
Dimensions

DTI 9541 / 9441

Dimension	inches (mm)
X	19.09 (485)
Y	60.47 (1536)
Z	7.09 (180)
K	59.45 (1510)
L	17.72 (450)

DTI variants partially recessed by 4.72" (120 mm) after installation

For exact cutout information reference drilling template at pfannenbergusa.com



DTI 9841

Cooling Unit 13000 - 16000 Btu/h

DTI: for partially recessed mounting of the cooling unit in the door or side

- Integrated Cooling System®: one mounting cut-out for 5 cooling performance ratings, mounted by 1 man in 2 minutes
- Condenser with 3 mm fin spacing, highly effective protection against strongly contaminated ambient air
- Large distance between intake and exhaust vents, safe circulation within the electrical enclosure due to long passage of air, therefore hot spots are eliminated
- Integrated fault and door contact
- Suitable for various supply voltages: 380 V / 400 V / 440 V / 460 V / 480 V
- Optionally available with integrated condensate evaporation system



Data		DTI 9841	Unit
Part number	RAL 7035 (Lt. Gray)	13269832055	
Rated voltage ± 10 %		400 / 460 3Ø	VAC
		AC 50 / 60	Hz
Cooling performance according to EN 14511		13000 - 16000	Btu/h
Power consumption		1891 / 2336	W
Nominal (Run) Current		4.2 / 3.6	A
Starting current		28.3 / 25.2	
Unimpeded airflow (free flow)	internal	983 (1670)	CFM (m³/h)
	external	824 (1400)	
Fuse (Recommended)		16	A
Type of connection		spring-type terminal included with plug	
Noise level (according to EN ISO 3741)		<70	dB(A)
Weight (without packaging)	DTI	190 (86)	lb (kg)
Ambient temperature range		+ 55 ... + 15 / + 131 ... + 59	°F / °C
Control range (adjustable)	SC	+ 77 ... + 113 / + 25 ... + 45; factory setting + 95 / + 35	
Refrigerant	type	R134a	
	quantity	2100	g
Duty cycle		100 %	
Condensate management		Integrated Condensate Management System with Condensate Drain; integrated condensate evaporation system optional	
Protection system according to EN 60529		NEMA Type 12 against enclosure when properly installed	
		NEMA Type 1 towards the surroundings when properly installed	
Design	housing	galvanized sheet steel	
	cover	galvanized/electrostatically powder coated (200 °C); stainless steel on request	

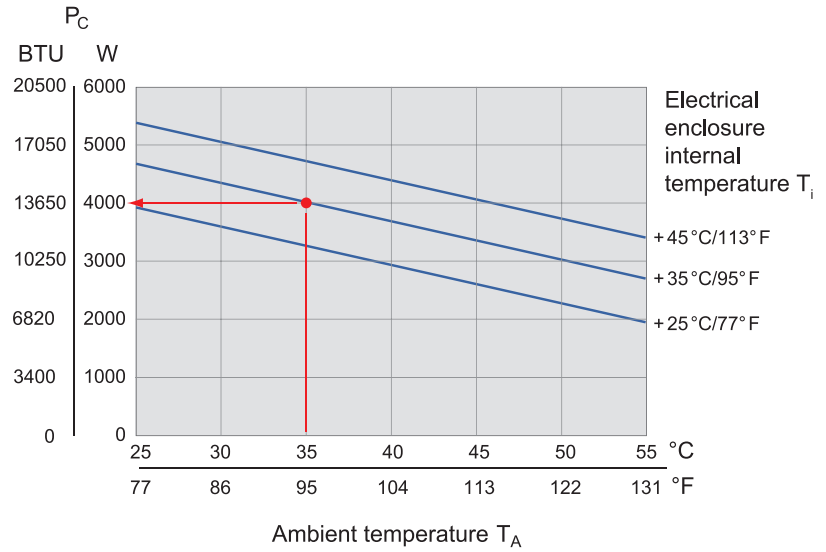
Accessories	Piece	Part number	Information on page
External condensate evaporation system	1	18314000001	94
Condensate bottle	1	18314000100	94
Pre-filter, aluminum	1	18329241010	94

Approvals see page 11/12

Cooling Capacity Performance Curve

DTI 9841

How to use chart
Example:
@ 95° F (ambient, X-axis),
@ 95° F (internal, diagonal lines)
= 2320 Btu/h (680 W)
cooling capacity (Y-axis)



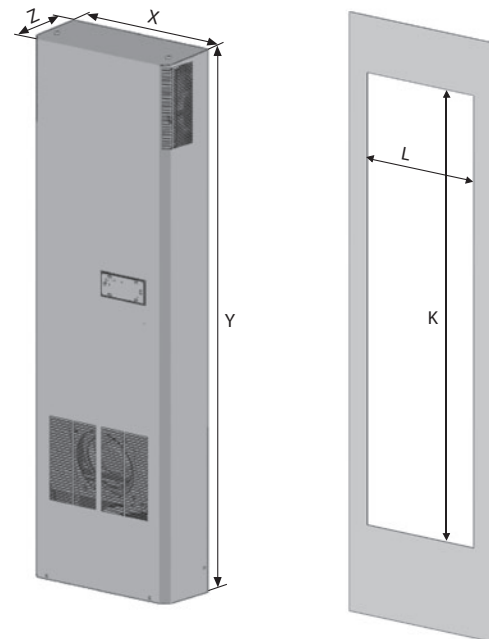
Dimensions

DTI 9841

Dimension	inches (mm)
X	19.09 (485)
Y	60.98 (1549)
Z	14.17 (360)
K	59.45 (1510)
L	17.72 (450)

DTI variants partially recessed by 4.72" (120 mm) after installation

For exact cutout information reference drilling template at pfannenbergusa.com



PTM 100

PTM 150

Peltier Cooling Units

100–150 W

Peltier cooling unit product line for use in sensitive areas, circuitry and small control cabinets.

- Ideal for the cooling of operating and control elements
- Particularly suitable for support arm systems
- Vibration-free, also usable for precision processes
- Pinpoint cooling of hotspots



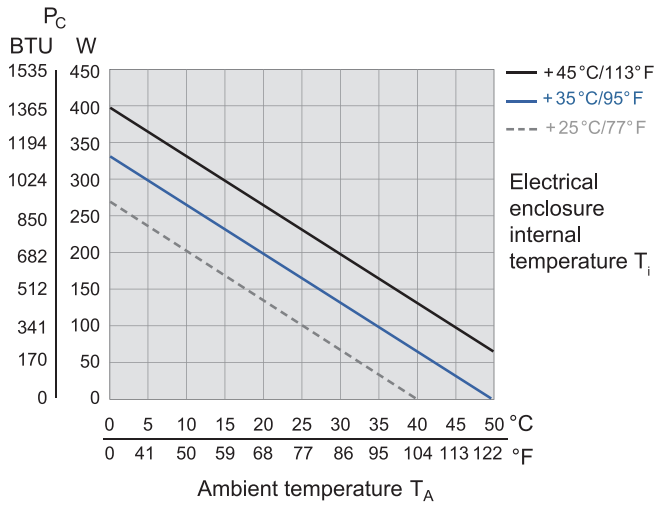
Data		PTM 100	PTM 150	Unit
Part number	horizontal RAL 7035 (Lt. Gray)	15310080055	15315080055	
	vertical RAL 7035 (Lt. Gray)	15310180055	15315180055	
Rated voltage ± 10 %		24 DC	24 DC	V
Cooling performance according to EN 14511		100	150	W
Power consumption		102	240	
Nominal (Run) Current		4.25	10	A
Unimpeded airflow (free flow)	internal	45 (76)	67 (114)	CFM
	external	99 (156)	138 (234)	(m³/h)
Fuse (Recommended)		6	16	A
Type of connection	DC	connection via terminal strip, max. 2.5 mm² / AWG 16		
	AC	main plug		
Sensor cable length		1200		mm
Noise level (according to EN ISO 3741)		47		dB(A)
Weight (without packaging)		15 (7)	20 (9)	lb (kg)
Ambient temperature range		- 40 ... + 50 / - 40 ... + 122		°F / °C
Control range (adjustable)		+ 0 ... + 50 / + 32 ... + 122		
Duty cycle		100 %		
Condensate management		Integrated Condensate Management System with Condensate Drain		
Protection system according to EN 60529		NEMA Type 12 against enclosure when properly installed		
		NEMA Type 1 towards the surroundings when properly installed		
Design	housing	galvanized sheet steel		
	cover	galvanized/electrostatically powder coated (200 °C)		
Installation location		H - horizontal / V - vertical		

Accessories	Piece	Part number	Information on page
External condensate evaporation system	1	18314000001	94
Condensate bottle	1	18314000100	94

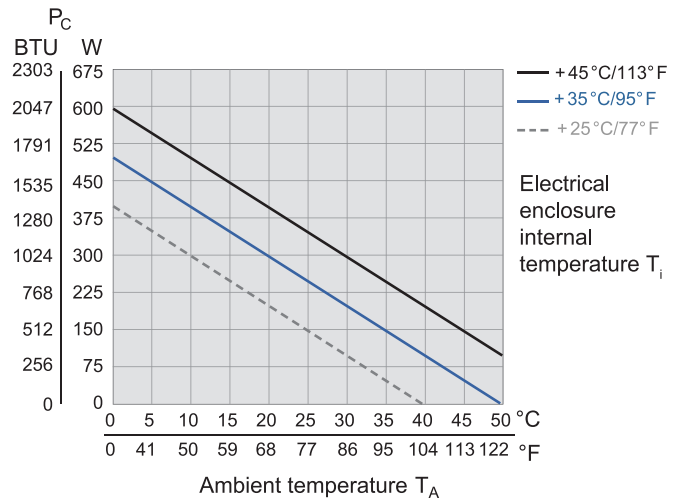
Approvals see page 11/12

Cooling Capacity Performance Curve

PTM 100

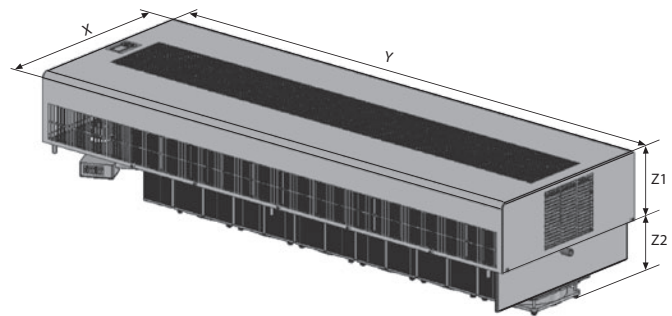
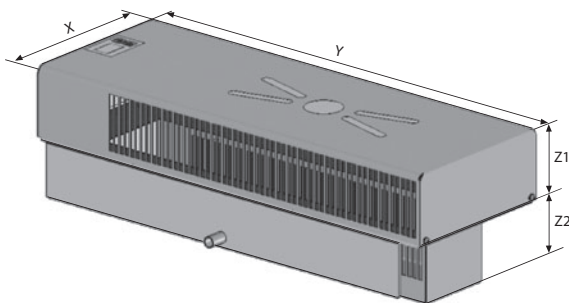


PTM 150

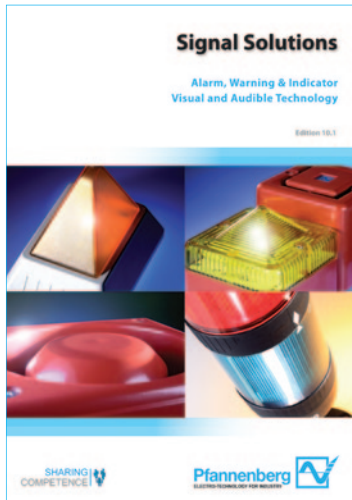


Dimensions

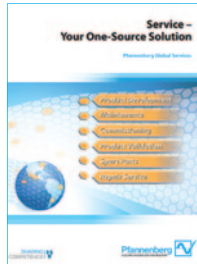
Dimension	PTM 100	PTM 150
	inches (mm)	
X	7.13 (181)	7.13 (181)
Y	14.45 (367)	19.49 (495)
Z1	5.94 (151)	5.94 (151)
Z2	2.95 (75)	2.95 (75)



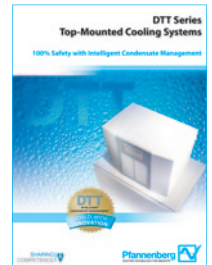
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Signal Solutions Guide



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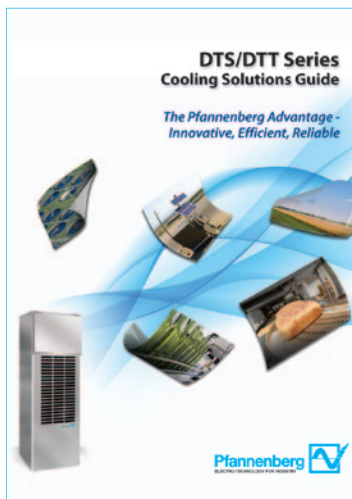
*DTT Series
Cooling Units*



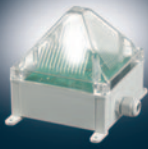
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