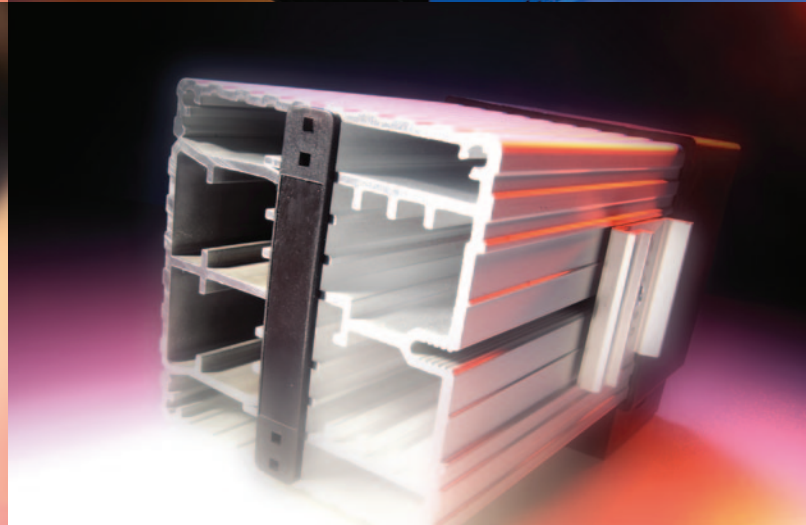
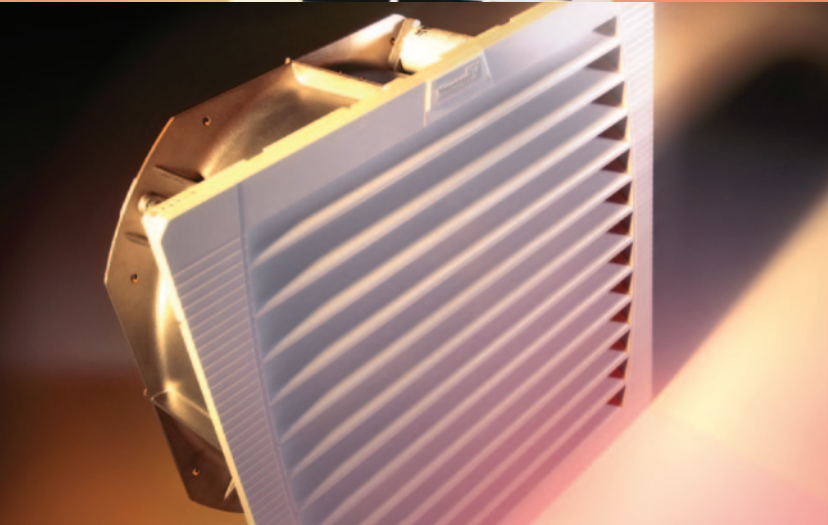


# Thermal Management Solutions

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

Main Catalog • Edition 11



SHARING  
COMPETENCE | 

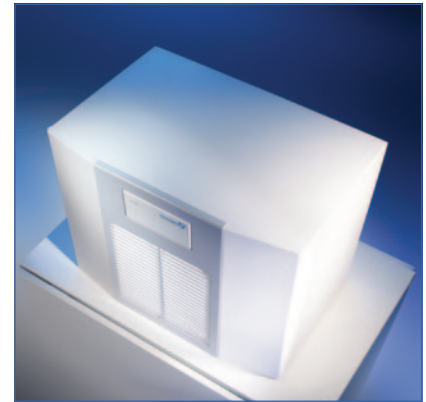
**Pfannenberg**   
ELECTRO-TECHNOLOGY FOR INDUSTRY

## 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<sup>®</sup>: 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<sup>®</sup>: 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	
<b>DTS Series Indoor Side Mount NEMA Type 12 Cooling Units</b>								
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	
<b>DTT Series Top Mount NEMA 12 Cooling Units</b>								
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
<b>DTS Series Outdoor Cooling Units - NEMA Type 3R/4</b>								
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
<b>DTS Series Washdown Cooling Units - NEMA Type 4/4X</b>								
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
<b>DTI Series Integrated/Recessed (European)</b>								
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
<b>Thermal-Electric Peltier Indoor Cooling Units</b>								
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
<b>DTS Series Water Cooled Cooling Units</b>								
DTS 31X5 WC	6000-8000	VDC		●	●		●	107
DTS 32X5 WC	10000 - 12000	VDC		●	●		●	107
<b>DTS Series High Temperature Cooling Units</b>								
DTS 3265 HT	2800 W	<b>230 V ONLY</b>	53 (1347) x 16.2 (411) x 11.9 (301)	●	●		●	109
DTS 3165 HT	1600 W	<b>230 V ONLY</b>	36 (914) x 12 (305) x 12 (302)	●	●		●	109
DTS 3061 HT	600W	<b>230 V ONLY</b>	20.16 x 10.08 x 10.79 (512 x 256 x 274)	●	●		●	109

● available  
○ pending

# DTS 3141 SL (NEMA Type 12)

## Cooling Unit 3000 - 5000 Btu/h

- Long internal air path captures heat above components and provides cool air below
- Maintains a UL Tested NEMA Type 12 seal against enclosure
- UL 484 Listed, category ACVS, UL file #SA10300, CE approved for European use
- Standard Controller (SC) with active alarm and door contact input
- Powder coated steel cover for rugged environments, easily painted to match enclosure or machine
- Condenser with 3 mm fin spacing, highly effective protection against strongly contaminated and aggressive ambient air
- 12" Width fits standard 12" NEMA enclosure depth
- Utilizes a thermal expansion valve (TXV) to ensure maximum performance over a broad range



Data		DTS 3141 SL (NEMA Type 12)			Unit
Part number	ANSI 61 (Gray)	13383436251	13383441251	13383444251	
	RAL 7035 (Light Gray)	13383436255	13383441255	13383444255	
Rated voltage ± 10 %		400 / 460 1Ø	230	115	VAC
Frequency		50/60	50/60	60	Hz
Cooling performance according to EN 14511		3000 - 5000			Btu/h
Power consumption		751	890	917	W
Nominal (Run) Current @ 35A/35A °C		1.9	4	8.5	A
Starting current		14.8	14.8	28	
Unimpeded airflow (free flow)	internal	341 (580)	341 (580)	365 (620)	CFM (m³/h)
	external	706 (1200)	706 (1200)	765 (1300)	
Fuse (Recommended)** Class CC		15	15	15	A
Type of connection		permanent spring terminal			
Noise level (according to EN ISO 3741)		< 70			dB(A)
Weight (without packaging)		108 (49)			lb (kg)
Ambient temperature range		+ 59 ... + 131 / + 15 ... + 55		+ 59 ... + 113 / + 15 ... + 45	°F / °C
Control range (adjustable)		SC + 77 ... + 113 / + 25 ... + 45; factory setting + 95 / + 35			
Refrigerant	type	R134a			
	quantity	900			g
Duty cycle		100 %			
Condensate management		active condensate evaporation system with safety overflow			
Protection system according to NEMA type		NEMA 12 against enclosure when properly installed			
		NEMA 1 towards the surroundings when properly installed			
Design	housing	galvanized sheet steel			
	cover	galvanized/electrostatically powder coated (200 °C)			

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

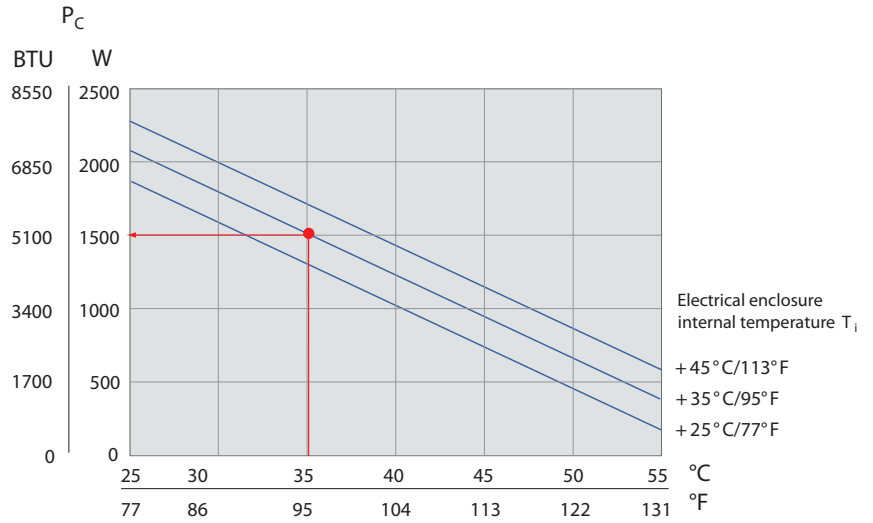
Accessories	Piece	Part number	Information on page
Metal Mesh Filter	1	18881500006	94
Condensate bottle	1	18314000100	94

Approvals see page 11/12

### Cooling Capacity Performance Curve

#### DTS 3141 SL

**How to use chart**  
Example:  
@ 95° F (ambient, X-axis), @ 95° F (internal, diagonal lines)  
= 5107 Btu/h cooling capacity (Y-axis)



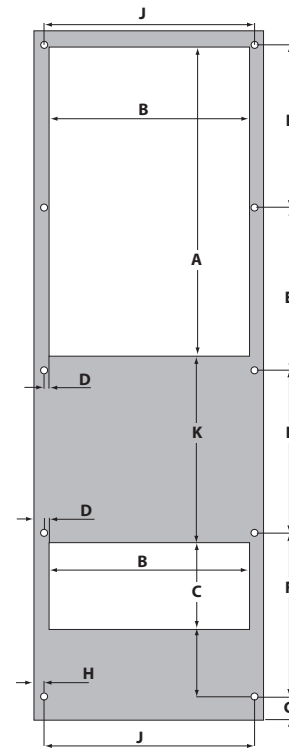
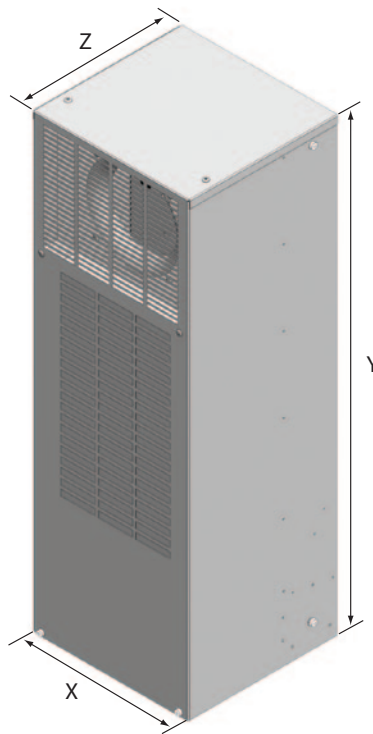
### Dimensions

#### DTS 3141 SL

Dimension	inches (mm)
X	12 (304)
Y	36 (914)
Z	12 (304)
A	17 (430)
B	10.4 (264)
C	4.7 (118)
D	.30 (8)
E	8.5 (216)
F	8.5 (216)
G	1.3 (32)
H	.5 (13)
I	3.2 (80)
J	11 (279)
K	9 (228)

Mounting holes  $\varnothing$  10 mm

For exact cutout information reference drilling template at [pfannenbergusa.com](http://pfannenbergusa.com)



# DTS 3161 SL (NEMA Type 3R/4)

## Cooling Unit 3000 - 5000 Bth/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 3R/4 seal against enclosure
- UL 484 Listed, category ACVS, UL file #SA10300, CE approved for European use
- Maintenance-free design, filterless for most applications
- Powder coated steel cover for rugged environments, easily painted to match enclosure or machine
- Condenser with 3 mm fin spacing, highly effective protection against strongly contaminated and aggressive ambient air
- Uses Internal Standard Control (SC) board
- Active condensate evaporation system
- 230V withstands high ambient temperature to 140° F (60° C)
- Utilizes a thermal expansion valve (TXV) to ensure maximum performance over a broad range

Data		DTS 3161 SL (NEMA Outdoor Type 3R/4)		Unit
Part number	ANSI 61 (Gray)	13383436351	13383441351	
	RAL 7035 (Light Gray)	13383436355	13383441355	
Rated voltage ± 10 %		400 / 460 1Ø	230	VAC
Frequency		50 / 60	50/60	Hz
Cooling performance according to EN 14511		3000 - 5000		Btu/h
Power consumption		751	890	W
Nominal (Run) Current @ 35A/35A °C		1.9	4	A
Starting current		14.8	14.8	
Unimpeded airflow (free flow)	internal	341 (580)	341 (580)	CFM (m³/h)
	external	706 (1200)	706 (1200)	
Fuse (Recommended)** Class CC		15	15	A
Type of connection		permanent spring terminal		
Noise level (according to EN ISO 3741)		< 70		dB(A)
Weight (without packaging)		108 (49)		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	400		g
Duty cycle		100 %		
Condensate management		active condensate evaporation system with safety overflow		
Protection system according to NEMA type		NEMA Type 3R/4 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)		

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

Option(s)	Piece	Part number	Information on page
900 W Enclosure Heater	1	Consult Factory	-
Accessories	Piece	Part number	Information on page
Metal Mesh Filter	1	18881500006	94
Condensate bottle	1	18314000100	94

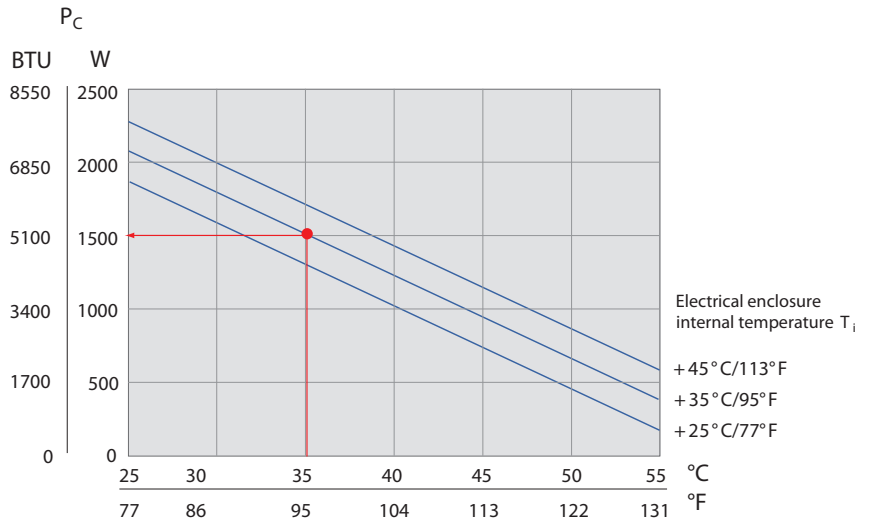
Approvals see page 11/12

### Cooling Capacity Performance Curve

#### DTS 3161 SL

##### How to use chart

Example:  
@ 95° F (ambient, X-axis), @ 95° F (internal, diagonal lines)  
= 5107 Btu/h cooling capacity (Y-axis)



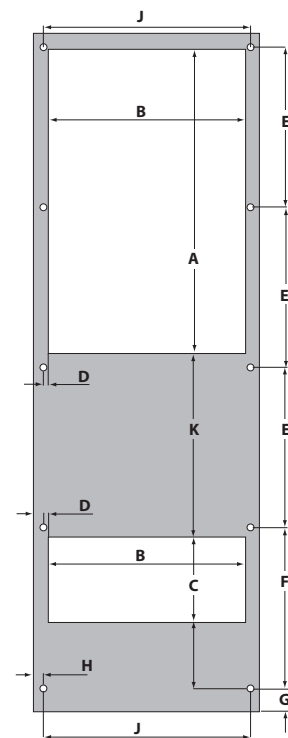
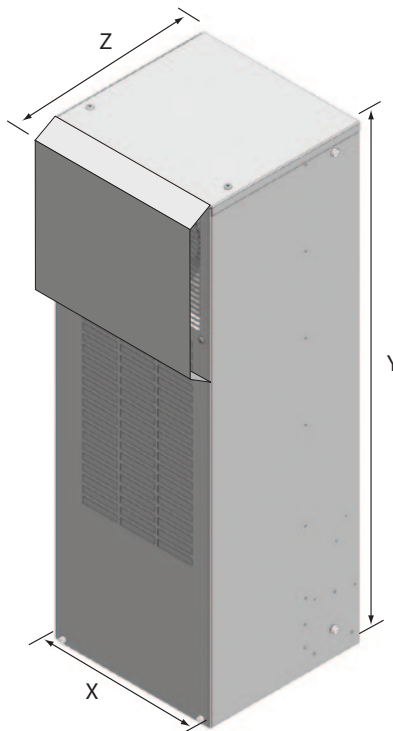
### Dimensions

#### DTS 3161 SL

Dimension	inches (mm)
X	12.25 (311)
Y	36 (914)
Z	14.4 (367)
A	17 (430)
B	10.4 (264)
C	4.7 (118)
D	.30 (8)
E	8.5 (216)
F	8.5 (216)
G	1.3 (32)
H	.5 (13)
I	3.2 (80)
J	11 (279)
K	9 (228)

Mounting holes  $\varnothing$  10 mm

For exact cutout information reference drilling template at [pfannenbergusa.com](http://pfannenbergusa.com)



## DTS 3181 SL (NEMA Type 4/4X)

### Cooling Unit 3000 - 5000 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
- 230V withstands high ambient temperature to 140° F (60° C)
- Utilizes a thermal expansion valve (TXV) to ensure maximum performance over a broad range



Data	DTS 3181 SL (NEMA Type 4/4X)		Unit	
Part number	304 Stainless Steel	13383436158	13383441355	
Rated voltage ± 10 %		400 / 460 1Ø	230	VAC
Frequency		50 / 60	50/60	Hz
Cooling performance according to EN 14511		3000 - 5000		Btu/h
Power consumption		751	890	W
Nominal (Run) Current @ 35A/35A °C		1.9	4	A
Starting current		14.8	14.8	
Unimpeded airflow (free flow)	internal	341 (580)	341 (580)	CFM
	external	706 (1200)	706 (1200)	(m³/h)
Fuse (Recommended)** Class CC		15	15	A
Type of connection		permanent spring terminal		
Noise level (according to EN ISO 3741)		< 70		dB(A)
Weight (without packaging)		108 (49)		lb (kg)
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	900		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	stainless steel 304		

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

Option(s)	Piece	Part number	Information on page
900 W Enclosure Heater	1	Consult Factory	-
Accessories	Piece	Part number	Information on page
Metal Mesh Filter	1	18881500006	94
Condensate bottle	1	18314000100	94

Approvals see page 11/12

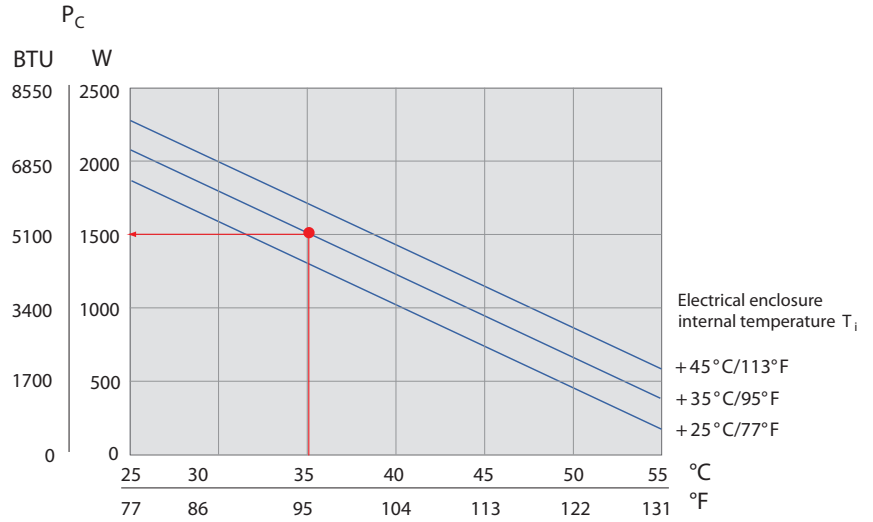


### Cooling Capacity Performance Curve

#### DTS 3181 SL

#### How to use chart

Example:  
@ 95° F (ambient, X-axis), @ 95° F  
(internal, diagonal lines)  
= 5107 Btu/h cooling capacity (Y-axis)



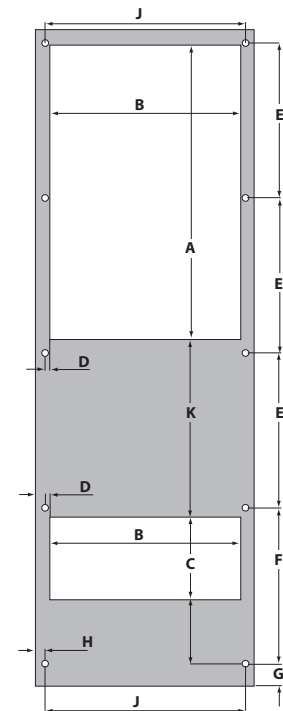
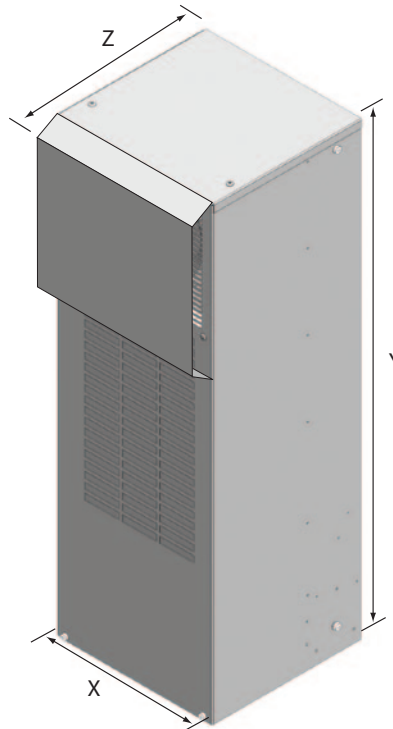
### Dimensions

#### DTS 3181 SL

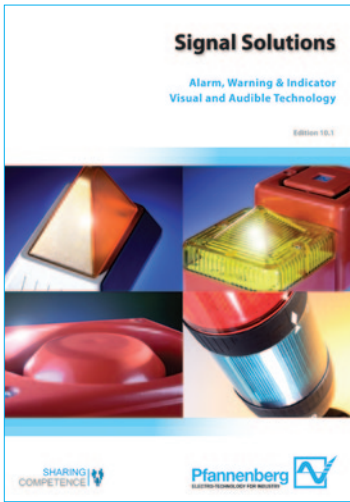
Dimension	inches (mm)
X	12.24 (311)
Y	36 (914)
Z	14.4 (367)
A	17 (430)
B	10.4 (264)
C	4.7 (118)
D	.30 (8)
E	8.5 (216)
F	8.5 (216)
G	1.3 (32)
H	.5 (13)
I	3.2 (80)
J	11 (279)
K	9 (228)

Mounting holes  $\varnothing$  10 mm

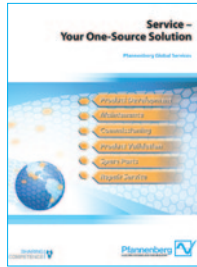
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*Global Service Guide*



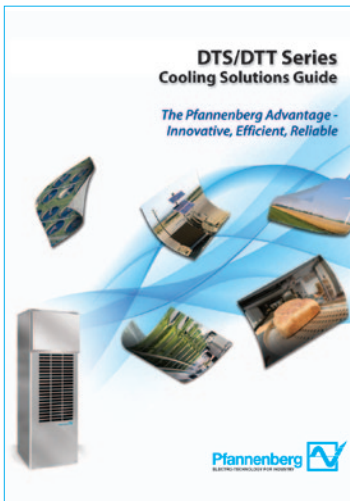
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*Wind Energy Solutions Guide*



*Food & Beverage Thermal Management Solutions*



*Cooling Solutions Guide*

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