

Panels

Panels for 1414, EJ and PJ Series Enclosures

• 14 gauge steel panels are finished in white.

HAMMOND MANUFACTURING

ENCLOSURES

- Aluminum panels are 0.080 type 5052 H-32 aluminum, unpainted.
- 14 gauge unpainted galvanized steel.
- Fiberglass panels in NEMA sizes.
- Steel panels and mounting hardware are included with 1414 Series enclosures.
- Galvanized panels and mounting hardware are included with the EJ Series enclosures.
- Mounting hardware is included with PJ Series enclosures, order panel separately.

Steel	0		Galv. Steel	Par	hel	For Us 1414 a		For Us PJ Se	
Part No.	Part No.	Part No.	Part No.	Length	Width	Height	Width	Height	Width
14R0503			14G0503	4.88	2.88	6	4		—
14R0505	14F0505	14A0505	14G0505	4.88	4.88	6	6	7.04	7.04
14R0705	14F0705	14A0705	14G0705	6.75	4.88	8	6	8.94	7.06
14R0707			14G0707	6.75	6.88	8	8	_	_
14R0907	14F0907	14A0907	14G0907	8.75	6.88	10	8	11.08	9.20
14R0909			14G0909	8.75	8.88	10	10	—	_
14R1105			14G1105	10.75	4.88	12	6	—	—
14R1109	14F1109	14A1109	14G1109	10.75	8.88	12	10	13.08	11.20
14R1111			14G1111	10.75	10.88	12	12	—	—
14R1307			14G1307	12.75	6.88	14	8	—	_
14R1311	14F1311	14A1311	14G1311	12.75	10.88	14	12	15.08	13.20
14R1509			14G1509	14.75	8.88	16	10	—	_
14R1513	14F1513	14A1513	14G1513	14.75	12.88	16	14	17.22	15.34
P1868	F1868	A1868		16.88	14.88	_	—	19.34	17.34
P2068	F2068	A2068		18.44	14.44	_	_	20.94	16.94

Panels for 1418, 1422, 1447, and Wallmount Enclosures

- 12 gauge steel finished in white.
- Larger panels have two or four formed flanges.
- Some larger panels are 10 gauge.
- Panels and mounting hardware are included with 1418, 1447 and 1422 Series enclosures.

Port No	Part No. Panel		For Use With Enclosure		
Fart NO.	Length	Width	Height	Width	
18P09091	9	9	12	12	
18P0921 ²	9	21	12	24	
18P13091	13	9	16	12	
18P13131	13	13	16	16	
18P15151	15	15	18	18	
18P17091	17	9	20	12	
18P1713 ¹	17	13	20	16	
18P1717 ¹	17	17	20	20	
18P2109 ²	21	9	24	12	
18P2113 ²	21	13	24	16	
18P2117 ²	21	17	24	20	
18P2121 ³	21	21	24	24	
18P2709 ²	27	9	30	12	
18P2713 ²	27	13	30	16	
18P2717 ²	27	17	30	20	
18P2721 ³	27	21	30	24	
18P2727 ³	27	27	30	30	
18P3321 ³	33	21	36	24	
18P3327 ³	33	27	36	30	
18P3333 ³	33	33	36	36	
18P3921 ³	39	21	42	24	
18P3927 ³	39	27	42	30	
18P3933 ³	39	33	42	36	
18P4521 ³	45	21	48	24	
18P4527 ³	45	27	48	30	
18P4533 ³	45	33	48	36	
18P5733 ³	57	33	60	36	
18P6927 ³	69	27	72	30	
18P6933 ³	69	33	72	36	

¹ Flat Panel ²2 Formed Flanges ³ 4 Formed Flanges

Technical references and DXF downloads available at www.hammfg.com

All dimensions in inches unless specified otherwise



Cooling Products General Information

The Need for Environment Control

With wide spread use of micro-electronics in today's control systems, temperature management takes on a new priority in order to ensure steady and reliable performance. The maintenance of a correct operating temperature may combine both cooling and/ or heating inside an enclosure which can protect against costly down time and system failures.

General Selection Considerations

Cooling

ocoming			
Conditions	Solution	Advantages	Disadvantages
Maximum desired enclosure temperature is 10°F or 5°C above maximum outside ambient.	Oversize the enclosure.	Easy to implement, no maintenance. Maintains NEMA rating of the enclosure.	Dissipates small amount of heat. Larger enclosure size takes up more space.
	Install ventilation louvers.	Economical solution, very little maintenance, easy to implement.	Dissipates limited amount of heat. Dirt, oil or fluids could enter the enclosure. NEMA rating is affected.
	Install filter fans.	Less expensive than air/refrigeration systems. Relatively high amount of heat removed, some termperature control by using thermostats.	Must maintain filters. NEMA rating can be affected. Limited use in hostile environments such as chemical applications.
	Use an air/air heat exchanger.	Easy to install, small power consumption, temperature control via thermostat. Maintains NEMA rating of the enclosure.	Must maintain filters.
Maximum desired enclosure temperature lower than maximum outside ambient.	Use an air conditioner.	Easy to install. Temperature control via factory installed thermostat. Removes large amounts of heat. Maintains NEMA rating of enclosure, dehumidifies enclosure air.	Must maintain filter. Generally not to be used when outside temperature is below 59°F (15°) or above 130°F (52°C).

Circulation

Conditions	Solution	Advantages	Disadvantages
Localized heat or 'hot spots'.		Economical solution, no maintenance, easy to install. Maintains NEMA rating of the enclosure.	Dissipates small amount of heat.

Heating

Conditions	Solution	Advantages	Disadvantages
Outside temperature is below minimum allowable equipment operation range.	Heat with radiant heater.	Economical power consumption. Reliable, can be temperature controlled.	Consumes energy, takes up internal panel space.
Condensation occurs.	Heat with radiant heater to maintain temperature above the dewpoint.	Economical power consumption. Reliable, humidity can be controlled.	Consumes energy, takes up internal panel space.

All dimensions in inches unless specified otherwise

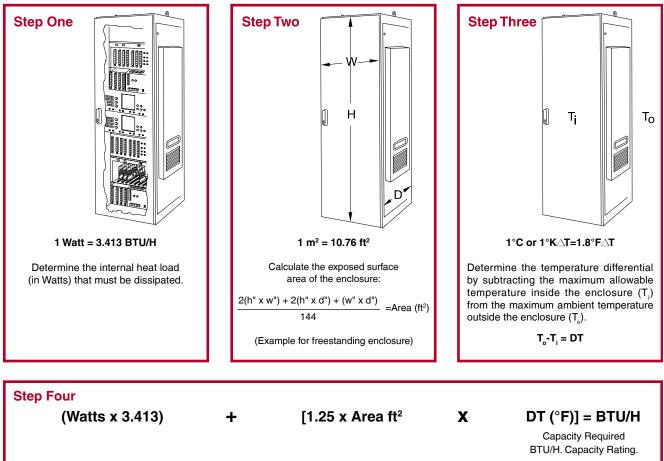


Cooling Products Sizing an Air Conditioner

Sizing an Air Conditioner

The proper selection of an air conditioner is determined by the following steps:

- Step 1) Internal heat load quoted as Watts that must be dissipated.
- Step 2) The exposed surface area of the enclosure.
- Step 3) Temperature differential required between maximum inside temperature and maximum outside ambient.
- Step 4) Final calculation of the above.



Climate Control

The DTS/DTT offering is available in the most popular selection of cooling capacities, sizes, voltages and mounting configurations. Available capacities range from 1,200 to 16,000 BTU/H in both side mounting and top mounting models. All models use powerful radial fans for maximum air circulation inside the enclosure in ambient temperatures of 125°F (+52°C). Models from 2,000 BTU/H capacity are equipped with thermal expansion valves for optimal use of the evaporator heat exchange surface under all operating conditions. For additional protection of the compressor motor, these valves are supplied as standard with Maximum Operating Pressure control devices (MOP). For energy conservation, the use of hot gas bypass valves is limited to the unloaded starting and control of large compressors from 8,000 BTU/H upwards. All air conditioners were developed, designed and subject to final inspections in accordance with international standards.

Technical references and DXF downloads available at www.hammfg.com

Cooling Products General Specifications for All Air Conditioners

Construction:	Outer shell of sheet steel.
Closed Loop Cooling:	Ambient outside air is never mixed with clean dry enclosure air.
Operating Temperature:	Minimum +46 F (+8 C) Maximum +125 F (52 C). Optional low ambient kit is available
Gasketing:	Is provided and/or installed on all units to maintain NEMA ratings specified.
Templates:	Provided on all units for easy layout of cutouts and mounting.
Power:	Available in 115 V 60 Hz, 110 V 50 Hz and 230 V, 460 50/60Hz 3 phase.
Filter:	Removable filter mat made from synthetic fibers are reusable and can be rinsed clean.
Refrigerants:	All models use environmentally friendly R134a.
Fans:	All blower motors are thermal protected and sealed with permanent lubricants.
Condensate Disposal:	Built in condensate evaporators are standard on most models. All units feature a condensate drain fitting complete with hose attachment.
Insulation:	Cold components, lines and evaporator compartment insulated for maximum efficiency and protection against condensation.
Quality Assurance:	Prior to charging, the refrigeration system is hermetically sealed with all joints brazed under protection gas atmosphere to exclude any internal scale. After a thorough leak test every unit undergoes safety and function checks, then is serialized and packed into sturdy boxes prior to shipment.
Installation Manuals:	Included with all models are detail drawings, mounting, schematic and wiring diagrams, a trouble shooting checklist and warranty information.

Product Summary

Side Mount Air Conditioners

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ENCLOSURES

Part No.	NEMA Protection	Rating BTU/H	Rated Voltage	Hz	Height	Width	Depth
DTS1200A115LG	12	1,200	115	60	13.00	14.76	7.48
DTS1200A230LG	12	1,200	230	50/60	13.00	14.76	7.48
DTS2000A115LG	12	2,000	115	60	17.52	12.40	10.04
DTS2000A230LG	12	2,000	230	50/60	17.52	12.40	10.04
DTS3081A115N4SS	4X	2,500	115	60	20.15	10.05	10.77
DTS3081A230N4SS	4X	2,500	115	60	20.15	10.05	10.77
DTS3041A115LG	12	2,500	115	60	20.15	10.05	10.77
DTS3041A230LG	12	2,500	230	50/60	20.15	10.05	10.77
DTS3500A115LG	12	3,500	115	60	36.00	15.35	7.87
DTS3500A230LG	12	3,500	230	50/60	36.00	15.35	7.87
DTS3141A115LG	12	4,000	115	60	29.46	15.55	9.38
DTS3161A115N3LG	3R/4	4,000	115	60	29.46	15.55	9.32
DTS3141A230LG	12	4,000	230	50/60	29.46	15.55	9.38
DTS3181A115N4SS	4X	4,000	115	60	29.46	15.55	9.32
DTS3161A230N3LG	3R/4	4,000	230	50/60	29.46	15.55	9.32
DTS3181A230N4SS	4X	4,000	230	50/60	29.46	15.55	9.32
DTS3241A115LG	12	7,500	115	60	47.61	15.55	10.65
DTS3261A115N3LG	3R/4	7,500	115	60	47.61	15.55	10.51
DTS3281A115N4SS	4X	7,500	115	60	47.61	15.55	10.51
DTS3241A230LG	12	7,500	230	50/60	47.61	15.55	10.65
DTS3261A230N3LG	3R/4	7,500	230	50/60	47.61	15.55	10.51
DTS3281A230N4SS	4X	7,500	230	50/60	47.61	15.55	10.51
DTS8000A115LG	12	8,000	115	60	53.15	15.63	10.63
DTS8000A230LG	12	8,000	230	50/60	53.15	15.63	10.63
DTS12000A115LG	12	12,000	115	60	53.15	15.63	10.63
DTS12000A230LG	12	12,000	230	50/60	53.15	15.63	10.63
DTS9841A460LG	12	16,000	460	60	60.98	19.09	14.17

A115 units can be operated 50 Hz at 110 V

Top Mount Air Conditioners

Part No.	NEMA Protection	Rating BTU/H	Rated Voltage	Hz	Height	Width	Depth
DTT4500A115LG	12	4,500	115	60	15.94	23.62	15.35
DTT4500A230LG	12	4,500	230	50/60	15.94	23.62	15.35

A115 units can be operated 50 Hz at 110 V and A460 units can be operated at 50Hz at 380V.

Technical references and DXF downloads available at www.hammfg.com

All dimensions in inches unless specified otherwise



Side Mounting DTS Series



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Description

- Designed for side mounting where hot spot cooling or low capacity cooling is required.
- Compact design uses minimal surface area.
- Closed loop cooling ensures air is recirculated without ever mixing with contaminated ambient air.

Standards

- Maintains NEMA 12 rating
- IP 54
- UR, cUR and CE

Features

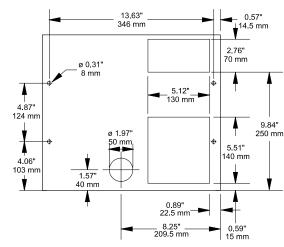
- R134a refrigerant.
- Thermostat control.
- Continuous air circulation from high capacity fans.

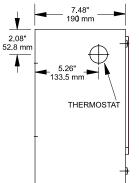
• EMI/RFI suppression meets CE.

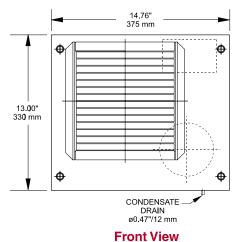
- Line cord with plug (115 V).
- Washable filter mat protected within an easily removable grill.
- Gasket, mounting kit and template for enclosure cutout and drilling are included.
- Condensate drain hose and clamp provided.
- Exterior case easily removable for field service.
- Q Mount allows unit to hang in place for easy installation.

Accessories

- Gaskets...see page 400
- Replacement filters...see page 400
- Replacement grill...see page 400







Right Side View

Refrigeration Data	
Rated Capacity	1,200 BTU/H (350 Watts)
Type of Refrigerant	R134a
Refrigerant Charge	280 g
Adjustable Thermostat	Factory setting +95°F (+35°C)
Max. Ambient Air Temp.	+125°F (+52°C)
Min. Ambient Air Temp.	+46°F (+8°C)
Air Capacity (unrestricted)	Internal Circulation 106 CFM
	External Circulation 230 CFM
Condensate Discharge	Direct via tube
Filter Mat	150 g/m²
Db Noise Level	≤ 62 dB(A)
Unit Weight	40 lbs (18 kg)
Exterior Case	Galvanized sheet steel
Finish	RAL7035 light grey finish
NEMA Rating	Enclosures IP 54/NEMA 12

Technical references and DXF downloads available at www.hammfg.com

DTS1200A115LG

115 V 60 Hz

110 V 50 Hz

103-127 V

200 W

2.2 A

15.7 A

With plug

All dimensions in inches unless specified otherwise

© Hammond Manufacturing

Technical Data Electrical Data

Rated Voltage

Running Amps

Line Cord

Starting Current

Range of Operation

Power Consumption

 Quality Enclosures. Service Excellence.

 Canada: 519.822.2960 or 905.456.3770
 USA: 716.630.7030

DTS1200A230LG

230 V 50/60 Hz

207-253 V

Without plug

200 W

1.3 A

9.5 A

Data Subject to change without notice

Drilling Template

Part Number	Ship Wt. Ibs
DTS1200A115LG	42
DTS1200A230LG	42



Side Mounting DTS Series 2000 BTU/H



Description

- Compact design for side mounting on any enclosure surface where hot spot cooling or low capacity cooling is required.
- Closed loop cooling ensures clean enclosure air is recirculated without ever mixing with contaminated ambient air.

Standards

- Maintains enclosure's NEMA 12
 rating
- IP 54

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• UR, cUR and CE

Features

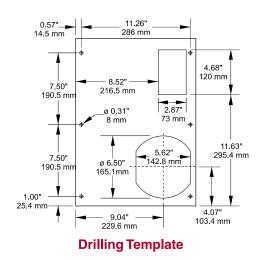
- R134a refrigerant.
- Thermostat control.
- Line cord with plug (115 V).
- Washable filter mat protected within an easily removable grill.

17.52" 445 mn

- Expansion valve permits increased efficiency through improved evaporator heat transfer and less frequent compressor operation.
- Built in condensate evaporator.
- Continuous air circulation from high capacity fans.
- EMI/RFI suppression meets CE.
- Gasket, mounting kit and template for cutout and drilling are included.
- Condensate drain hose and clamp.
 Exterior case easily removable for field service.
- Q Mount allows unit to hang in place for easy installation.

Accessories

- Gaskets...see page 400
- Replacement filters...see page 400
- Replacement grill...see page 400

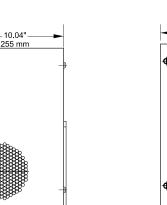


Part Number	Ship Wt. lbs
DTS2000A115LG	54
DTS2000A230LG	54

Technical Data

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Electrical Data	DTS2000A115LG	DTS2000A230LG
Rated Voltage	115 V 60 Hz	230 V 50/60 Hz
	110 V 50 Hz	
Range of Operation	103-127 V	207-253 V
Power Consumption	270 W	230 W
Running Amps	2.9 A	1.3 A
Starting Current	13.8 A	7.4 A
Line Cord	With plug	Without plug

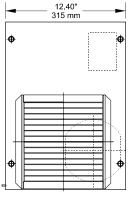
Technical references and DXF downloads available at www.hammfg.com



CONDENSATE DRAIN

ø0.47"/12 mm

Left Side View



Front View

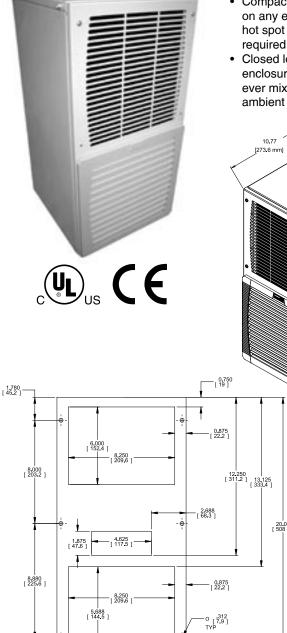
Refrigeration Data	
Rated Capacity	2,000 BTU/H (580 Watts)
Type of Refrigerant	R134a
Refrigerant Charge	300 g
Adjustable Thermostat	Factory setting +95°F (+35°C)
Max. Ambient Air Temp.	+125°F (+52°C)
Min. Ambient Air Temp.	+46°F (+8°C)
Air Capacity (unrestricted)	Internal Circulation 230 CFM
	External Circulation 230 CFM
Condensate Discharge	Condensate evaporator
Filter Mat	150 g/m ²
Db Noise Level	≤ 62 dB(A)
Unit Weight	51 lbs (23 kg)
Exterior Case	Galvanized sheet steel
Finish	RAL7035 light grey finish
NEMA Rating	Enclosures IP 54/NEMA 12

All dimensions in inches unless specified otherwise

Climate Control

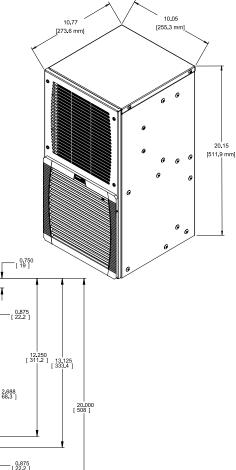


Side Mounting DTS Series 2500 BTU/H



Description

- Compact design for side mounting on any enclosure surface where hot spot or low capacity cooling is required.
- Closed loop cooling ensures clean enclosure air is recirculated without ever mixing with contaminated ambient air.



Standards

- Maintains enclosure's NEMA 12 rating
- IP 54
- UL, cUL and CE

Features

- R134a refrigerant.
- · Thermostat control accessible from inside enclosure.
- Expansion valve increases • efficiency with improved evaporator heat transfer and less frequent compressor operation.
- Direct condensate discharge via • drain hose.
- Continuous air circulation from high capacity fans.
- EMI/RFI suppression meets CE.
- Self-diagnostics on startup.
- Fault indication via LED light.
- Door contact for power down when enclosure door is opened.
- Gasket, mounting kit and template for cutout and drilling are included.
- Condensate drain hose and clamp Easy install with "Click & Fit" sys-•
- tem

Accessories

- Gaskets...see page 400
- Remote door switch...see page 400

Part Number	Ship Wt. lbs
DTS3041A115LG	56
DTS3041A230LG	56

Refrigeration Data	
Rated Capacity	2500 BTU/H (585 Watts)
Type of Refrigerant	R134a
Refrigerant Charge	400 g
Adjustable Set Points	Factory setting +95°F (+35°C)
Max. Ambient Air Temp.	+131°F (+55°C)
Min. Ambient Air Temp.	+59°F (+15°C)
Air Capacity (unrestricted)	Internal Circulation 191 CFM
	External Circulation 88 CFM
Condensate Discharge	Condensate Drain
Filter Mat	Filterless
Db Noise Level	≤ 64 dB(A)
Unit Weight	51 lbs (23 kg)
Exterior Case	Galvanized sheet steel
Finish	RAL7035 light grey finish
NEMA Rating	Enclosures IP 54/NEMA 12

All dimensions in inches unless specified otherwise

-0 <u>312</u> [7.9] TYP 0.312 9.375 **Technical Data**

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Electrical Data	DTS3041A115LG	DTS3041A230LG
Rated Voltage	115v 60 Hz	230v 50/60 Hz
	110v 50 Hz	
Range of Operation	103-127v	207-253v
Power Consumption	690 W	724 W
Running Amps	6.0 A	3.3 A
Starting Current	28 A	14.4 A
Line Cord	With Plug	With Plug

Technical references and DXF downloads available at www.hammfg.com

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Side Mounting DTS Series 3500 BTU/H



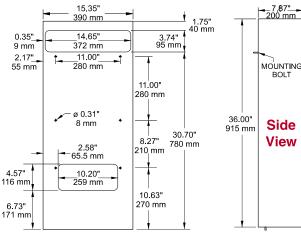
Description

- Compact design for side mounting on any enclosure surface where hot spot or low capacity cooling is required.
- Closed loop cooling ensures clean enclosure air is recirculated without ever mixing with contaminated ambient air.

Standards

- Maintains enclosure's NEMA 12 rating
- IP 54
- UR, cUR and CE

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Drilling Template

Note: Any unmarked radius is ø 0.79"R

Part Number	Ship Wt. Ibs
DTS3500A115LG	99
DTS3500A230LG	99

Technical Data

Electrical Data	DTS3500A115LG	DTS3500A230LG
Rated Voltage	115 V 60 Hz	230 V 50/60 Hz
	110 V 50 Hz	
Range of Operation	103-127 V	207-253 V
Power Consumption	590 W	550 W
Running Amps	6.7 A	2.9 A
Starting Current	17.5 A	8.3 A
Line Cord	With plug	Without plug

Technical references and DXF downloads available at www.hammfg.com

15.35" 390 mm Front View CONDENSATE DRAIN 90.47"/12 mm

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• R134a refrigerant.

- Thermostat control.
- Expansion valve increases efficiency with improved evaporator heat transfer and less frequent compressor operation.
- Built in condensate evaporator.
- Continuous air circulation from high capacity fans.
- EMI/RFI suppression meets CE.
- Line cord with plug (115 V).
- Self-diagnostics on startup.
- Fault indication via LED light.
- Door contact for power down when enclosure door is opened.
- Washable filter mat protected within an easily removable grill.
- Gasket, mounting kit and template for cutout and drilling are included.
- Condensate drain hose and clamp.
- Exterior case easily removable for resetting thermostat and field service.
- Q Mount allows unit to hang in place for easy installation.

Accessories

- Gaskets...see page 400
- Lifting lugs...see page 400
- Remote door switch...see page 400
- Replacement filters...see page 400
- Replacement grill...see page 400

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Refrigeration Data	
Rated Capacity	3,500 BTU/H (1,014 Watts)
Type of Refrigerant	R134a
Refrigerant Charge	480 g
Adjustable Set Points	Factory setting +95°F (+35°C)
Max. Ambient Air Temp.	+125°F (+52°C)
Min. Ambient Air Temp.	+46°F (+8°C)
Air Capacity (unrestricted)	Internal Circulation 247 CFM
	External Circulation 341 CFM
Condensate Discharge	Condensate evaporator
Filter Mat	150 g
Db Noise Level	≤ 64 dB(A)
Unit Weight	94 lbs (43 kg)
Exterior Case	Galvanized sheet steel
Finish	RAL7035 light grey finish
NEMA Rating	Enclosures IP 54/NEMA 12

All dimensions in inches unless specified otherwise



Accessories

• Gaskets...see page 400

• Lifting lugs...see page 400

• Remote door switch...see page 400

Side Mounting DTS Series 4000 & 7500 BTU/H





7500 BTU/H unit shown

Description

- Designed for side mounting on any enclosure surface where high capacity system cooling is required.
- Closed loop cooling ensures clean enclosure air is recirculated without ever mixing with contaminated ambient air.
- Optimum air circulation with maximum clearance distance between warm inlet and cold outlet for reduced hot spot locations.

Standards

- Maintains enclosure's NEMA 12
 rating
- IP 54

Part Number DTS3141A115LG

DTS3141A230LG

DTS3241A115LG

DTS3241A230LG

C Hammond Manufacturing

Climate Contro

• UL, cUL and CE

Features

- R134a refrigerant.
- Thermostat control accessible from inside enclosure.
- Hot gas bypass valve prevents evaporator freeze up while minimizing heavy inrush currents on large BTU/H units.
- Built in condensate evaporator.
- Continuous air circulation from high capacity fans.
- EMI/RFI suppression meets CE.
- · Self-diagnostics on startup.
- Fault indication via LED light.
- Provision for door contact allowing power down when enclosure door is opened.
- Gasket, mounting kit and template for enclosure cutout and drilling are included.
- Condensate drain hose and clamp provided.
- Q Mount allows unit to hang in place for easy installation.

Technical Data

Electrical Data DTS3141A115LG DTS3141A230LG DTS3241A115LG DTS3241A230LG Rated Voltage 115 V 60 Hz/ 230 V 50/60 Hz 115 V 60 Hz/ 230 V 50/60 Hz Range of Operation 103-127 V/198-252 V 103-127 V/198-252 V Power Consumption 950 W/860 W 1400 W/1400 W Running Amps 7.2 A/4.0 A 14.6 A/6.3 A Starting Current 17.1 A/9.3 A 26.8 A/16.5 A			
Rated Voltage 115 V 60 Hz/ 230 V 50/60 Hz 115 V 60 Hz/ 230 V 50/60 Hz Range of Operation 103-127 V/198-252 V 103-127 V/198-252 V Power Consumption 950 W/860 W 1400 W/1400 W Running Amps 7.2 A/4.0 A 14.6 A/6.3 A Starting Current 17.1 A/9.3 A 26.8 A/16.5 A	Electrical Data	DTS3141A115LG	DTS3241A115LG
230 V 50/60 Hz 230 V 50/60 Hz Range of Operation 103-127 V/198-252 V 103-127 V/198-252 V Power Consumption 950 W/860 W 1400 W/1400 W Running Amps 7.2 A/4.0 A 14.6 A/6.3 A Starting Current 17.1 A/9.3 A 26.8 A/16.5 A		DTS3141A230LG	DTS3241A230LG
Range of Operation 103-127 V/198-252 V 103-127 V/198-252 V Power Consumption 950 W/860 W 1400 W/1400 W Running Amps 7.2 A/4.0 A 14.6 A/6.3 A Starting Current 17.1 A/9.3 A 26.8 A/16.5 A	Rated Voltage	115 V 60 Hz/	115 V 60 Hz/
Power Consumption 950 W/860 W 1400 W/1400 W Running Amps 7.2 A/4.0 A 14.6 A/6.3 A Starting Current 17.1 A/9.3 A 26.8 A/16.5 A		230 V 50/60 Hz	230 V 50/60 Hz
Running Amps 7.2 A/4.0 A 14.6 A/6.3 A Starting Current 17.1 A/9.3 A 26.8 A/16.5 A	Range of Operation	103-127 V/198-252 V	103-127 V/198-252 V
Starting Current 17.1 A/9.3 A 26.8 A/16.5 A	Power Consumption	950 W/860 W	1400 W/1400 W
•	Running Amps	7.2 A/4.0 A	14.6 A/6.3 A
Line Cand Tempinel Pleak Tempinel Pleak	Starting Current	17.1 A/9.3 A	26.8 A/16.5 A
Line Cord Terminal Block Terminal Block	Line Cord	Terminal Block	Terminal Block

Technical references and DXF downloads available at www.hammfg.com

Ship Wt. lbs.

99

99

127

127

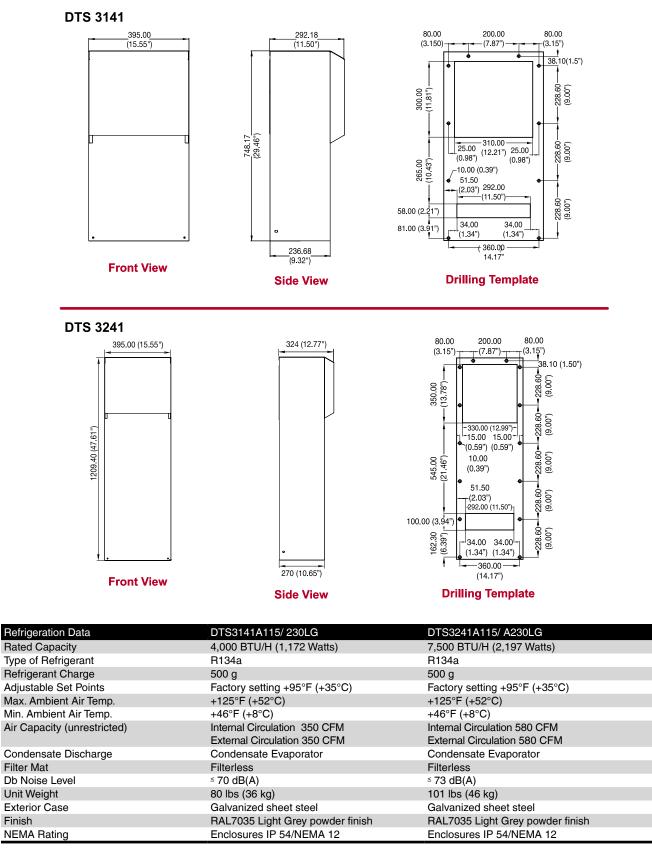
All dimensions in inches unless specified otherwise

Quality Enclosures. Service Excellence.

Canada: 519.822.2960 or 905.456.3770 USA: 716.630.7030



Side Mounting DTS Series 4000 & 7500 BTU/H



Technical references and DXF downloads available at www.hammfg.com

All dimensions in inches unless specified otherwise



Side Mounting DTS Series 8000 & 12000 BTU/H

FLI ((



Description

- Designed for side mounting on any enclosure surface where high capacity system cooling is required.
- Closed loop cooling ensures clean enclosure air is recirculated without ever mixing with contaminated ambient air.
- Optimum air circulation with maximum clearance distance between warm inlet and cold outlet for reduced hot spot locations.

Standards

- Maintains enclosure's NEMA 12
 rating
- IP 54

Climate Contro

396

UR, cUR and CE

Features

- R134a refrigerant.
- Thermostat control.
- Hot gas bypass valve prevents evaporator freeze up while minimizing heavy inrush currents on large BTU/H units.
- Built in condensate evaporator.
- Continuous air circulation from high capacity fans.
- EMI/RFI suppression meets CE.
- Self-diagnostics on startup.
- Fault indication via LED light.
- Provision for door contact allowing power down when enclosure door is opened.
- Gasket, mounting kit and template for enclosure cutout and drilling are included.
- Washable filtermat protected within an easily removable grill.
- Condensate drain hose and clamp provided.
- Q Mount allows unit to hang in place for easy installation.

Technical Data

• Versatile design maintains foot print for larger capacity units if required.

Accessories

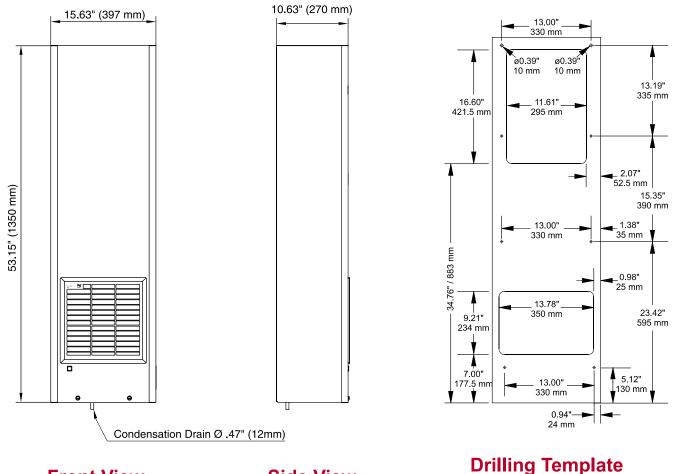
- Gaskets...see page 400
- Lifting lugs...see page 400
- Remote door switch...see page 400
- Replacement filters...see page 400
- Replacement grill...see page 400

Electrical Data	DTS8000A115LG	DTS12000A115LG
	DTS8000A230LG	DTS12000A230LG
Rated Voltage	115 V 60 Hz/	115 V 60 Hz/
	230 V 50/60 Hz	230 V 50/60 Hz
Range of Operation	103-127 V/187-253 V	103-127 V/187-253 V
Power Consumption	2,100 W/1,800 W	2,300 W/2,000 W
Running Amps	21.0 A/12.5 A	21.0 A/12.5 A
Starting Current	52.0 A/46.2 A	52.0 A/46.2 A
Line Cord	8' Cord	8' Cord

Technical references and DXF downloads available at www.hammfg.com

All dimensions in inches unless specified otherwise

Side Mounting DTS Series 8000 & 12000 BTU/H



Front View

Side View

Refrigeration Data	DTS8000A115LG	DTS12000A115LG
	DTS8000A230LG	DTS12000A230LG
Rated Capacity	8,000 BTU/H (2,340 Watts)	12,000 BTU/H (3,500 Watts)
Type of Refrigerant	R134a	R134a
Refrigerant Charge	750 g	850 g
Adjustable Set Points	Factory setting +95°F (+35°C)	Factory setting +95°F (+35°C)
Max. Ambient Air Temp.	+125°F (+52°C)	+125°F (+52°C)
Min. Ambient Air Temp.	+46°F (+8°C)	+46°F (+8°C)
Air Capacity (unrestricted)	Internal Circulation 450 CFM	Internal Circulation 530 CFM
	External Circulation 589 CFM	External Circulation 589 CFM
Condensate Discharge	Condensate Evaporator	Condensate Evaporator
Filter Mat	150 g/ m ²	150 g/ m²
Db Noise Level	≤ 69 dB(A)	≤ 69 dB(A)
Unit Weight	160 lbs (72 kg)	165 lbs (75 kg)
Exterior Case	Galvanized sheet steel	Galvanized sheet steel
Finish	RAL7035 Light Grey powder finish	RAL7035 Light Grey powder finish
NEMA Rating	Enclosures IP 54/NEMA 12	Enclosures IP 54/NEMA 12

Technical references and DXF downloads available at www.hammfg.com

All dimensions in inches unless specified otherwise

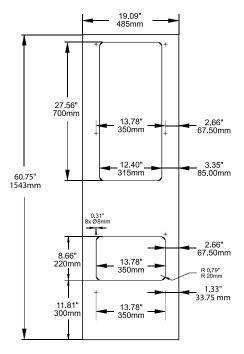
Side Mounting DTS Series

16,000 BTU/H

HAMMOND MANUFACTURING

ENCLOSURES





Drilling Template

er	Ship Wt. Ibs
460LG	210

Technical Data

Part Numb DTS9841A

Electrical Data	DTS9841A460LG
Rated Voltage	460v 60Hz 3 phase
Range of Operation	380v 50Hz / 460v 60Hz
Power Consumption	1891W / 2336W
Running Amps	4.2A / 3.6A
Starting Current	28.3A / 25.2A
Line Cord	Terminal Block

Refrigeration Data Rated Capacity

Rated Capacity	16,000 BTU/H (4,000 Watts)
Type of Refrigerant	R134a
Refrigerant Charge	2,100 g
Adjustable Set Points	Factory setting +95°F (+35°C)
Max. Ambient Air Temp.	+131°F (+55°C)
Min. Ambient Air Temp.	+59°F (+15°C)
Air Capacity (unrestricted)	Internal Circulation 882 CFM
	External Circulation 1,076 CFM
Condensate Discharge	Condensate Drain
Filter Mat	Filterless
Db Noise Level	≤ 70 dB(A)
Unit Weight	200 lbs (91 kg)
Exterior Case	Galvanized sheet steel
Finish	RAL7035 light grey finish
NEMA Rating	Enclosures IP 54/NEMA 12

•**91) 91)** (()

Description

- Designed for side mounting on any enclosure surface where high capacity system cooling is required.
- Closed loop cooling ensures clean enclosure air is recirculated without ever mixing with contaminated ambient air.

Standards

- Maintains enclosure's NEMA 12
 rating
- IP 54
- UR, cUR and CE

Features

- R134a refrigerant.
- Thermostat control accessible from inside enclosure.
- Expansion valve increases efficiency with improved evaporator heat transfer and less frequent compressor operation.
- Direct condensate discharge via drain hose.
- Continuous air circulation from high capacity fans.
- EMI/RFI suppression meets CE.
- Self-diagnostics on startup.
- Fault indication via LED light.
- Door contact for power down when enclosure door is opened.
- Gasket, mounting kit and template for cutout and drilling are included.
- Condensate drain hose and clamp.

Accessories

- Gaskets...see page 400
- Lifting lugs...see page 400
- Remote door switch...see page 400

Technical references and DXF downloads available at www.hammfg.com

All dimensions in inches unless specified otherwise

398



Top Mounting DTT Series 4500 BTU/H



Description

- Designed for top mounting where space limitations do not allow side mounting on the enclosure surface.
- · Closed loop cooling ensures clean enclosure air is recirculated without ever mixing with contaminated ambient air.

Standards

- Maintains NEMA 12 rating •
- IP 54 ٠
- UR, cUR, CE

Features

- R134a refrigerant.
- Thermostat control.
- Expansion valve increases efficiency with improved evaporator heat transfer and less frequent compressor operation.
- Built in condensate evaporator.
- ٠ Continuous air circulation from high capacity fans.
- · EMI/RFI suppression meets CE.
- Line cord with plug (115 V).
- Washable filter mat protected within ٠ an easily removable grill.
- Gasket, mounting kit and template for cutout and drilling are included.

CONDENSATE DRAIN Ø0.47"/12 mm

٠ Condensate drain hose and clamp.

- C E
 - Volt free contact for high pressure failure.
 - Exterior case easily removable for resetting thermostat and field service.
 - Can accommodate crane hooks to ٠ assist installation.
 - Versatile design maintains foot print through the series.

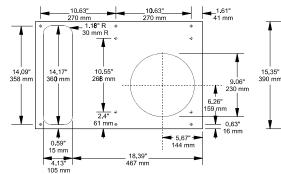
Accessories

- Gaskets...see page 400
- Lifting lugs...see page 400 ٠

-FILTER

15.94" 405 mm

- Remote door switch...see page 400 •
- Replacement filters...see page 400 ٠
 - Replacement grill...see page 400

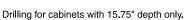




23.62"







Drilling Template

Part Number	Ship Wt. lbs.
DTT4500A115LG	95
DTT4500A230LG	95

Technical Data

loomitour Butu		
Electrical Data	DTT4500A115LG	DTT4500A230LG
Rated Voltage	115 V 60 Hz	230V 50/60 Hz
	100 V 50 Hz	
Range of Operation	103-127 V	207-253 V
Power Consumption	630 W	840 W
Running Amps	7.7 A	5.2 A
Starting Current	24.9 A	18.5 A
Line Cord	With plug	Without plug

Technical references and DXF downloads available at www.hammfg.com	
recrimed references and DAT downloads available at www.nammig.com	

Refrigeration Data	
Rated Capacity	4,500 BTU/H (1,300 Watts)
Type of Refrigerant	R134a
Refrigerant Charge	480 g
Adjustable Thermostat	Factory setting +95°F (+35°C)
Max. Ambient Air Temp.	+125°F (+52°C)
Min. Ambient Air Temp.	+46°F (+8°C)
Air Capacity (unrestricted)	Internal Circulation 547 CFM
	External Circulation 547 CFM
Condensate Discharge	Condensate evaporator
Filter Mat	150 g/m²
Db Noise Level	[≤] 66 dB(A)
Unit Weight	90 lbs (41 kg)
Exterior Case	Galvanized sheet steel
Finish	RAL7032 beige powder finish
NEMA Rating	Enclosures IP 54/NEMA 12

All dimensions in inches unless specified otherwise

Air Conditioner Accessories

Neoprene Gasket Kit

- Replacement for standard supplied gasket.
- Self-adhesive cellular neoprene gasket.
- Supplied in 10 foot rolls, 0.19"x0.75".
- For side mount units greater than 3500 BTU/H, two gasket kits are required.

Part No.	1481DJ10
----------	----------

Replacement Grill

- Replacement grill for air conditioners.
- · Packaged individually.

Black Part No.	RAL 7032 Beige Part No.	Use with Air Conditioner
PG3BK	PG3RAL	DTS1200 - DTS3500
PG5BK	PG5RAL	DTS8000 - DTS12000
n/a	AFF1	DTT4500

Replacement Filters

- Packaged in quantities of 5.
- Made of synthetic fibers.
- Re-usable up to 20 times.
- 100% resistant to humidity.
- Filters have a mass filtering level of 67%.

Part No.		Dimen A	isions B	Use With Air Conditioner	Filter Density (g/m ²)
DTSF3150	inch <i>mm</i>	8.30 <i>210</i>	8.30 <i>210</i>	DTS1200 - DTS6000	150
DTSF5150	inch <i>mm</i>	11.00 <i>280</i>	11.00 <i>280</i>	DTS8000 - DTS12000	150
DTTF5150	inch <i>mm</i>	11.81 <i>300</i>	11.81 <i>300</i>	DTT4500	150

Remote Door Switch

- Permits convenient door activated on-off function of air conditioners. Mounts to flange of any Hammond enclosure.
- Can be wired normally open or normally closed.
- 115/230 V AC

Part No.

Climate Contro

FLKDS Hardware Included

Lifting Lugs

- Packaged in quantities of 2.
- Used for lifting, transporting and installation of air conditioners.
- 8 mm diameter.
- For use with DTS3500 DTS12000 and DTT4500.

Part No. LL8

Water Condensate Evaporator



- High performance evaporation kit
- · Easy to retrofit on any cooling unit

Technical Data	
Max. Water Volume	13.5 oz (400 ml)
Evaporation Rate	3.4 oz/hr (100 ml/hr)
Electrical Data	
Voltage(s)	230v /115v
Frequency	50/60 Hz
Voltage Range	100-240v
Max. Power	125 W
Power Range	20-110 W
Nominal Current	0.5 A (230v) / 0.8 A (115v)
Starting Current	1.3 A
Zero Water Current	0.09 A (230v) / 0.18 A (115v)
Mechanical Data	
Height x Width x Depth	3.35" x 10.35" x 4.00"
	(85 x 263 x 102 mm)
Finish	Stainless Steel
Weight	2.6 lbs (1.175 Kg)

Technical references and DXF downloads available at www.hammfg.com

All dimensions in inches unless specified otherwise



Side Mounting DTS Series - NEMA 3R, 4, 4X 2500 BTU/H - Stainless Steel

Description

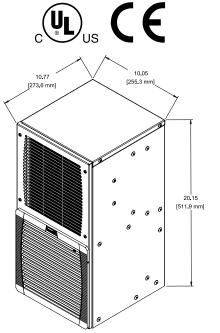
- Compact design for side mounting on any enclosure surface where spot cooling or low capacity cooling is required.
- Closed loop cooling ensures clean enclosure air is recirculated without ever mixing with contaminated ambient air.
- · Ideal for outdoor or very wet conditions.

Standards

- UL, cUL, and CE
- Complies with
- NEMA 3R, 4, 4X

Features

- Stainless steel body.
- R134a refrigerant.
- Thermostat control.
- Line cord with plug (115 V).
- Expansion valve permits increased efficiency through improved evaporator heat transfer and less frequent compressor operation.
- Continuous air circulation from high capacity fans.
- EMI/RFI suppression meets CE standard.
- Gasket, mounting kit, and template for cutout and drilling are included.
- Direct condensate discharge, drain hose and clamp.
- Q Mount allows unit to hang in place for easy installation.



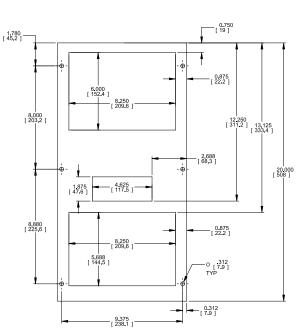
Dimensional Drawing Only

Part Number	Ship Wt. Ibs.
DTS3081A115N4SS	60
DTS3081A230N4SS	60

Technical Data

Electrical Data	DTS3081A115N4SS	DTS3081A230N4SS
Rated Voltage	115 V 60 Hz	230 V 50/60 Hz
	110 V 50 Hz	
Range of Operation	103-127 V	198-253 V
Power Consumption	690 W	724 W
Running Amps	6.0 A	3.3 A
Starting Current	28 A	14.4 A
Line Cord	With plug	With plug

Technical references and DXF downloads available at www.hammfg.com



Refrigeration Data	
Rated Capacity	2,500 BTU/H (732 Watts)
Type of Refrigerant	R134a
Refrigerant Charge	400 g
Adjustable Thermostat	Factory setting +95°F (+35°C)
Max. Ambient Air Temp.	+131°F (+55°C)
Min. Ambient Air Temp.	+46°F (+8°C)
Air Capacity (unrestricted)	Internal Circulation 191 CFM
	External Circulation 88 CFM
Condensate Discharge	Condensate drain
Filter Mat	Filterless
Db Noise Level	[≤] 64 dB(A)
Unit Weight	55 lbs (25 kg)
Exterior Case	304 Stainless steel
Finish	Polish #3
NEMA Rating	3R, 4, 4X

All dimensions in inches unless specified otherwise



Side Mounting DTS Series - NEMA 3R, 4 4000 & 7500 BTU/H



4000 BTU/H Shown

Description

- Designed for side mounting on any enclosure surface where high capacity system cooling is required.
- Closed loop cooling ensures clean enclosure air is recirculated without ever mixing with contaminated ambient air.
- Optimum air circulation with maximum clearance distance between warm inlet and cold outlet for reduced hot spot locations.

Standards

- UL, cUL, CE
- Complies with
- NEMA 3R, 4

Features

- R134a refrigerant.
- Thermostat control accessible from inside enclosure.
- Expansion valve prevents evaporator freeze up while minimizing heavy inrush currents on large BTU/H units.
- Built in condensate evaporator.
- Continuous air circulation from high capacity fans.
- EMI/RFI suppression meets CE.
- Self-diagnostics on startup.
- Fault indication via LED light.
- Provision for door contact allowing power down when enclosure door is opened.
- Gasket, mounting kit and template for enclosure cutout and drilling are included.
- Condensate drain hose and clamp provided.
- Q Mount allows unit to hang in place for easy installation.
- Nema 3R/4 exterior galvanized sheet steel with powdercoat finish.

Accessories

- Gaskets...see page 400
- Lifting lugs...see page 400
- Remote door switch...see page 400

Technical Data

Part Number

DTS3161A115N3LG

DTS3161A230N3LG

DTS3261A115N3LG

DTS3261A230N3LG

Electrical Data	DTS3161A115N3LG	DTS3161A230N3LG	DTS3261A115N3LG	DTS3261A230N3LG
Rated Voltage	115 V 60 Hz	230 V 50/60 Hz	115 V 60 Hz	230 V 50/60 Hz
Range of Operation	103-127 V	198-252 V	103-127 V	198-252 V
Power Consumption	950 W	860 W	1800 W	1800 W
Running Amps	7.2 A	4 A	14.6 A	6.3 A
Starting Current	17.1 A	9.3 A	26.8 A	16.5 A
Line Cord	Terminal Block	Terminal Block	Terminal Block	Terminal Block

Technical references and DXF downloads available at www.hammfg.com

Ship Wt. Ibs.

104

104

129

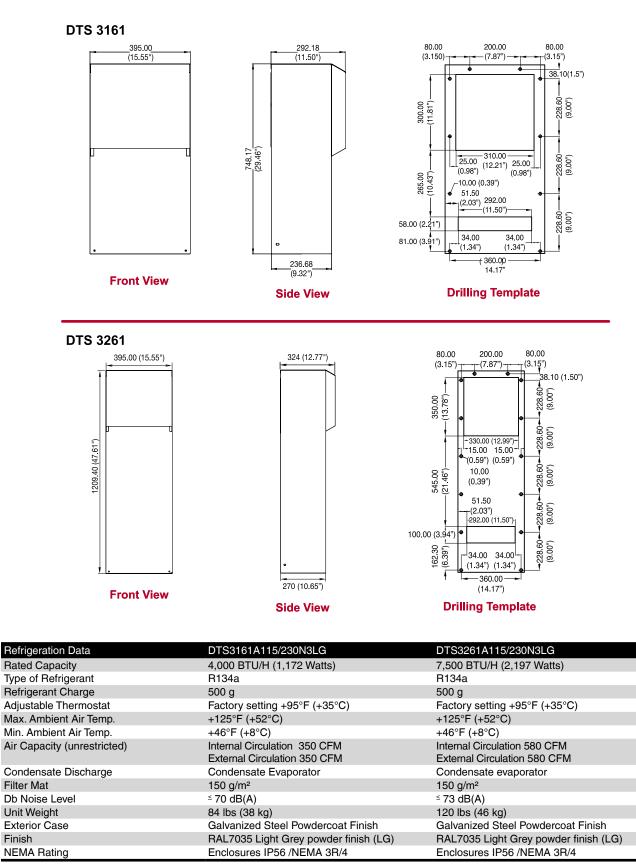
129

All dimensions in inches unless specified otherwise





Side Mounting DTS Series - NEMA 3R, 4 4000 & 7500 BTU/H



Technical references and DXF downloads available at www.hammfg.com

All dimensions in inches unless specified otherwise



Side Mounting DTS Series - NEMA 3R, 4, 4X 4000 & 7500 BTU/H - Stainless Steel



Light Grey 4000 BTU/H Shown

Description

- Designed for side mounting on any enclosure surface where high capacity system cooling is required.
- Closed loop cooling ensures clean enclosure air is recirculated without ever mixing with contaminated ambient air.
- Optimum air circulation with maximum clearance distance between warm inlet and cold outlet for reduced hot spot locations.

Standards

- UL, cUL, CE
- Complies with
- NEMA 3R, 4, 4X

Features

- R134a refrigerant.
- Thermostat control accessible from inside enclosure.
- Expansion valve prevents evaporator freeze up while minimizing heavy inrush currents on large BTU/H units.
- Built in condensate evaporator.
- Continuous air circulation from high capacity fans.
- EMI/RFI suppression meets CE.
- Self-diagnostics on startup.
- Fault indication via LED light.
- Provision for door contact allowing power down when enclosure door is opened.
- Gasket, mounting kit and template for enclosure cutout and drilling are included.
- Condensate drain hose and clamp provided.
- Q Mount allows unit to hang in place for easy installation.
- Nema 4/4x exterior 304 stainless steel.

Accessories

- Gaskets...see page 400
- Lifting lugs...see page 400
- Remote door switch...see page 400

Part Number	Ship Wt. lbs.
DTS3181A115N4SS	107
DTS3181A230N4SS	107
DTS3281A115N4SS	144
DTS3281A230N4SS	144

Technical Data

Technical Data				
Electrical Data	DTS3181A115N4SS	DTS3181A230N4SS	DTS3281A115N4SS	DTS3281A230N4SS
Rated Voltage	115 V 60 Hz	230 V 50/60 Hz	115 V 60 Hz	230 V 50/60 Hz
Range of Operation	103-127 V	198-252 V	103-127 V	198-252 V
Power Consumption	950 W	860 W	1800 W	1800 W
Running Amps	7.2 A	4 A	14.6 A	6.3 A
Starting Current	17.1 A	9.3 A	26.8 A	16.5 A
Line Cord	Terminal Block	Terminal Block	Terminal Block	Terminal Block

Technical references and DXF downloads available at www.hammfg.com

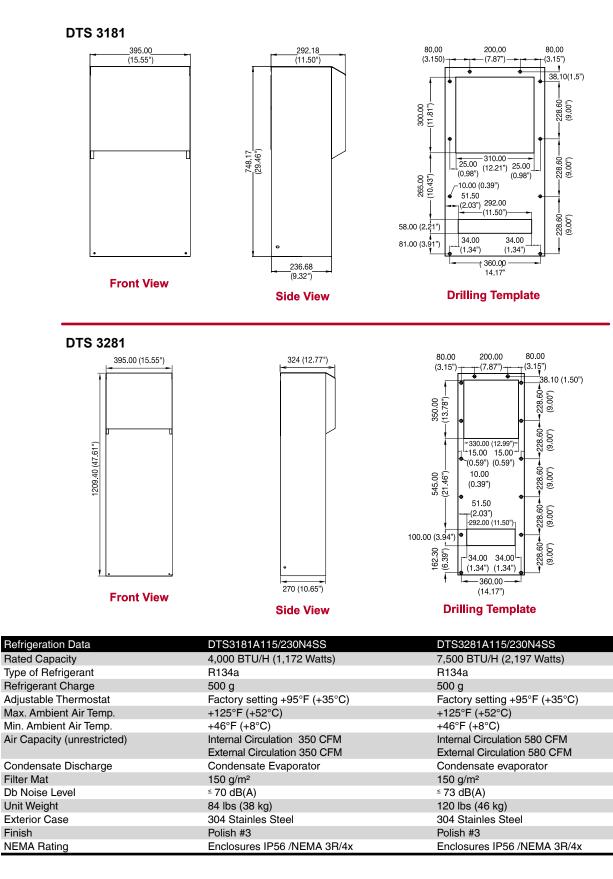
All dimensions in inches unless specified otherwise

404

Climate Control



Side Mounting DTS Series - NEMA 3R, 4, 4X 4000 & 7500 BTU/H - Stainless Steel



Technical references and DXF downloads available at www.hammfg.com

All dimensions in inches unless specified otherwise

Finish



Blowers and Fans General Selection Considerations

General Specifications

All Hammond blowers and filter fans are engineered for performance and built for reliability. This versatile line includes a blower, fan tray and filter fans.

Blowers and fans use forced convection cooling, which means ambient air flows through a filter into the enclosure to cool heated components. Both blowers and fans are sized in CFM (cubic feet per minute).

It is recommended that an exhaust filter be used in combination with the blower or filter fan to act both as an exhaust point for the hot internal air plus aid in the pressurization of the enclosure, reducing the chance of unfiltered air entering the enclosure. Whenever possible, the blower or filter fan should be located in the bottom third of the enclosure and the filtered exhaust grill placed as high as possible on the opposing side. Performance levels can be further increased by adding a second exhaust filter.

Sizing Blowers and Fans

To determine the CFM (cubic feet per minute) required in any standard situation, use the following calculation, (non-standard situations would consist of high air density - significantly more than 0.075 lbs per cubic foot.)

Power to be dissipated (Watts) x 3.17

CFM = -Maximum Allowable Internal Temperature (°F) - Maximum Ambient Temperature (°F)

Note - The calculation above is exact, but adding an additional 25% to the CFM level is a standard safety factor.

If the air density is high (significantly more than 0.075 lbs per cubic foot), use the number calculated above in the following formula:

> CFM x (0.075) Non-standard Air Density (Ibs per cubic foot)

Note: Ambient Temperature must be lower than maximum internal temperature for fan/blower to be effective.

Technical references and DXF downloads available at www.hammfg.com

All dimensions in inches unless specified otherwise

406



Packaged Twin Blowers 160 to 470 CFM



Description

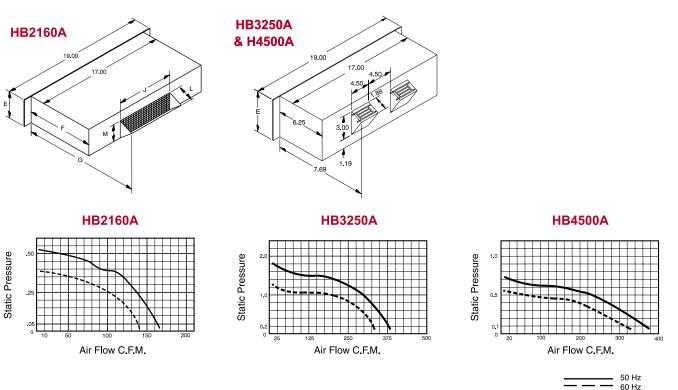
- · Each contains a quadruplex centrifugal blower powered by a single precision ball-bearing motor.
- These widely-used Packaged Twin Blowers deliver air from more than 50% of their 17" width.
- Internal neoprene isolation mounts reduce transmission of vibration to the enclosure.
- · Can be mounted on panel rails or into a cutout in an enclosure.

Features

- Capacities: 160 to 470 CFM.
- Heavy-gauge steel enclosures ٠ with EIA-notched flanges for rail mounting.
- Attractive 19 inch stainless steel grills.
- UR/CSA approved ball-bearing • motors.
- Inlet air cools motor for longer life. Permanent filters.
- •
- Exhaust guards included. • Six foot (minimum) SJTW 3-wire cord.

Accessories

• Filter coat...see page 413



	Free Flow Air	RPM	Ambier	nt Temp.	Panel	Height									Ship
Part No.	Delivery (CFM)	Nominal	Min. F	Max. F	Units	E	F	G	Н	J	K	L	Μ	N	Wt.lbs
HB2160A	160	1500	-20	250	2	3.50	8.75	10.50	-	7.50	-	2.25	2.25	-	10
HB3250A	300	3000	-20	250	3	5.25	6.25	7.69	4.50	4.50	0.63	1.88	3.00	1.19	18
HB4500A	470	3250	-20	250	4	7.00	8.25	10.25	4.63	4.75	1.00	2.50	4.00	1.44	23

Technical references and DXF downloads available at www.hammfg.com

All dimensions in inches unless specified otherwise

Accessory Products



ANUFACTURING

ENCLOSURES



CE

- Packaged individually.
- Provides for controlled pressure compensation due to temperature variations (i.e. night/day operation).
- · Recommend two plugs per cabinet in opposite locations.
- Minimum cutout diameter 1.46"

Part No.	Dimensions (Diameter x Depth)	Ship Wt. Ibs
SDA412	2.6" x 1.2"	1

Mounting:	PG 29 (1.14") thread with union nut, minimum cutout diameter
Material:	Polycarbonate UL94VO
Protection:	IP45
Color:	RAL 7032 beige

Breather Kit (Pressure Compensation Plug)

· Packaged individually.

Part No.

- Provides for controlled pressure compensation due to temperature variations (i.e. night/day operation).
- · Recommend two plugs per cabinet in opposite locations.
- Pipe Thread 1/2"NPT (actual dia. 0.84")

BDN4XN1

15.24 (0.6")

 CSA/A Ex Approvals:
 Class I, Zone 1, Ex e II

 Class I Division 2 Groups ABCD

 Class II EFG, Class III

 Ingress Protection:
 IP66, CSA Enclosure Type NEMA 4X

 Impact Resistance:
 20Nm (7Nm GF Nylon)

 Materials:
 Durethan BKV 30 N1 30% Glass Filled Nylon

 O Ring - Nitrile
 Fixing nut - Brass

 Operating Temp:
 -50C to +85C

Technical references and DXF downloads available at www.hammfg.com

All dimensions in inches unless specified otherwise

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General Accessories Hardware

General Accessories

Hardware



Heavy Duty Door Clamping Hardware



- New note style replacement hardware for use on 1418N4, 1418N4SS, 1447SN4, and
- Formed heavy gauge stainless steel.
- · Set of two.

Part No.

· Note: Old style (no notch) available, Part No. 1481C18

Junction Box Padlock Kit

· Field installed kit requires drilling

Compatible with 1414 Series

of only 4 holes

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Quick Release Clamp

- Provides fast access to conventional screw clamp type enclosures.
- Installs on clamp bracket in place of screw on 1418, 1418N4, 1447N4, and 1422N4 Series enclosures.
- Entire assembly is stainless steel.



ANUFACTURING



- · Replacement hardware for use on 1414, 1485, 1486, and 1487 Hammond enclosures.
- Formed heavy gauge stainless steel.
- · Set of two



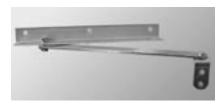


- Chrome plated steel accessory
- Two 10-32 screws on 1427L, M, and N; 6-32 screws on 1427P and Q.

Part No.	Mtg. Centers	Handle Diameter
1427L	7.00	0.375
1427M	5.25	0.375
1427N	3.50	0.375
1427P	2.81	0.250
1427Q	2.25	0.250



General Accessories General Accessories

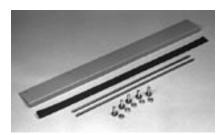


Door Stop Kit

- Provides for door opening in fixed position as required.
- Prevents door swing that can occur in field maintenance situations.
- This door stop kit maintains NEMA 4x, 4, 3R and 12 ratings when installed correctly using the hardware and directions provided.

Part No.

DSTOPK





Drip Shield Kit

- Designed for use on Hammond NEMA 12 1418, and 1422 enclosures to protect door and hardware from falling dust and water.
- Cannot be used on NEMA 4 (mild steel or aluminum) or 4X due to interference with the top clamps on those units.
- Installs quickly and easily in the field with common tools.
- Each kit includes a drip shield, stainless steel bolts, plated nuts, neoprene gasket for drip shield and a stainless steel hinge pin (2 half length pins are supplied when required).
- Finished in gray.

Part No.	Fits Enclosure
	Width (Inches)
1481S12K	12
1481S16K	16
1481S20K	20
1481S24K	24
1481S30K	30
1481S36K	36
1481S42K	42
1481S48K	48
1481S60K	60
1481S72K	72



Remote door switch and magnet mount not included - must be ordered separately.



Light Kit & Accessories

- Light kits are offered in 18", 24" and 48" widths.
- CSA and UL component recognized.
- Features a manually operated switch, 115V convenience outlet, durable plastic lens, and 6 foot power cord (without plug).
- Can mount into light mounting channel, bolt through enclosure or by using magnet strip (available separately see chart below.)
- Magnet mount can be used with mild steel enclosures only.
- Remote door switch available separately for automatic activation. Can be wired normally open or closed.
- 115/230 V AC
- 1¾" high x 4½" deep.
- Finished in white.
- Use standard 18", 24" or 48" T8 fluorescent bulb (not included)

Part No.	Description
FLK18T8 ¹	18" Fluorescent Light Kit
FLK24T8 ¹	24" Fluorescent Light Kit
FLK48T8 ¹	48" Fluorescent Light Kit
FLK18MM	Magnet mount for 18" and 24" kit
FLK48MM	Magnet mount for 48" light kit
FLKDS	Remote Door Switch

¹ T8 fluorescent bulb not included

Technical references and DXF downloads available at www.hammfg.com

All dimensions in inches unless specified otherwise



General Accessories General Accessories



Literature Pocket Kit

- For use as additional or replacement literature pockets.
- Kit includes pocket, high strength two-sided adhesive tape and surface preparation swab.
- Plastic pocket is black.
- Packaged individually.

Part No.	Height	Width	Depth
PKT66	6	6	0.75
РКТ99	6	9	0.75
PKT1212	12	12	2.50



Enclosure Stabilizers

- Prevents floor mounted enclosures from falling over while being worked on before they are bolted to the floor.
- Install by slipping under enclosure mounting foot and tightening two thumb screws.
- Finished in gray.



Overall Dimensions

8 x 30



Panel Lifting Handles

• Used for lifting, transporting and installing panel assemblies in enclosures that are positioned horizontally.

Part No.

1481ES (1 pair)



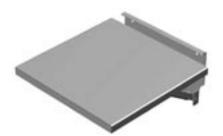
Neoprene Gasket Kit - NEMA 12 Enclosures

- Self-adhesive cellular neoprene gasket for NEMA 12 enclosures.
- Supplied in 10 foot rolls, 0.19" x 0.75".

Urethane Gasket Kit - NEMA 4, 4X Enclosures

- Self adhesive microcell urethane gasket for NEMA 4, 4X enclosures.
- Supplied in 10 foot rolls, 0.25" x 0.75".

Part No.	Material	For NEMA Type
1481DJ10	Neoprene	12
1481DJN410	Urethane	4, 4X



Fold Down Shelf

- Supports various equipment used temporarily to service/program switchgear inside enclosures.
- Mounts with bolts through doors or sides.
- Weight capacity 100 lbs.
- Finished in beige.

Dort No	Work Surface (In.)				
Part No	W	D			
FDS1212	12	12			
FDS1818	18	18			



Technical references and DXF downloads available at www.hammfg.com

All dimensions in inches unless specified otherwise

Quality Enclosures. Service Excellence. Canada: 519.822.2960 or 905.456.3770 USA: 716.630.7030

PF Filter Fans



PF3000 and PF2000

Description

- This line of fans provides innovative technology for fan cooling and pressurizing of industrial cabinets.
 A high quality filter fan provides an economical method of ensuring your enclosure does not overheat.
- Filtered passive ventilation can be provided by an exhaust filter for either convection cooling or in combination with a fan in forced air cooling.
- The slim-line design of this fan line is unique, when installed, the front louvered grill protrudes less than one quarter inch. The attractive grill maintains the sleek aesthetics of an enclosure system.

Standards

- UR, CUR and CE.
- Built to IP54 standards (except PF1000/PFA1000 IP43 standards).
- Maintains NEMA 12 integrity of enclosure.
- Fan CSA Listed.

Features

- Available in 115V and 230V versions
- High performance fan motors with finger guards.
- ABS-FR grills (except PF1000 Series which is polystyrene FR).
- Durable, reusable filter mat.
- Grills are black allowing for a complementary match to all cabinet colors.
- Integral gasket to seal against enclosure. (except PF1000 - use PFG1000)

Easy Installation

• The patented "Click and Fit" system allows for rapid filter fan and exhaust filter installation without screws.

FL ({

• After using the convenient cutout template (provided with every unit), the fan and/or exhaust filter just snaps into the opening.

Options

• Reverse flow (exhaust) available on 5,6,7000 models

Accessories

- Exhaust filters...see page 410
- Replacement grills...see page 410
- Replacement filters...see page 410

		Free Flow	Air Delivery		Filter		Sound	• •	Ambient		Ship
Part No.	Voltage	Air Delivery (CFM)	w/Exhaust (CFM)	Pressure (Pa)	Density (g/m²)	Filtering Level	Level (dB)	Connector Type	Temp. °F Max/Min	Comparable IP Standard	Wt. Ibs
PF1000	115	16	10	29	150	73%	39	2 - 12" wires	140/14	IP43	1.5
PF2000	115	38	28	69	150	73%	49	terminal strip	122/14	IP54	2
PF2500	115	89	62	57	150	73%	55	terminal strip	122/14	IP54	4
PF3000	115	169	142	89	150	73%	55	terminal strip	122/14	IP54	4
PF5000	115	324	249	205	150	73%	69	terminal strip	122/14	IP54	7
PF6000	115	410	295	225	150	73%	71	terminal strip	122/14	IP54	8
PF7000	115	506	368	158	150	73%	72	terminal strip	122/14	IP54	8
PF1000230	230	16	10	29	150	73%	39	2 - 12" wires	140/14	IP43	1.5
PF2000230	230	38	28	69	150	73%	49	terminal strip	122/14	IP54	2
PF2500230	230	89	62	57	150	73%	55	terminal strip	122/14	IP54	4
PF3000230	230	169	142	89	150	73%	55	terminal strip	122/14	IP54	4
PF5000230	230	324	249	205	150	73%	69	terminal strip	122/14	IP54	7
PF6000230	230	410	295	225	150	73%	71	terminal strip	122/14	IP54	8
PF7000230	230	506	368	158	150	73%	72	terminal strip	122/14	IP54	8

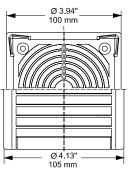
Technical references and DXF downloads available at www.hammfg.com

All dimensions in inches unless specified otherwise



PF Filter Fans

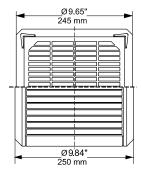
Mechanical Data: PF 1000



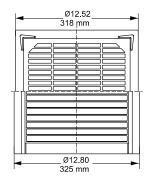
PF 2000

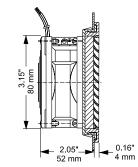


PF 2500 & 3000



PF 5000, 6000 & 7000



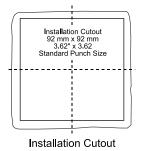


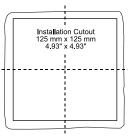
4.69" 119 mm

2500 = 127mm (5.00") 3000 = 171mm (6.73")

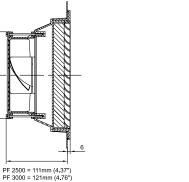
뿝문

2.72" 69 mm





Installation Cutout



0.16"

4 mm

4

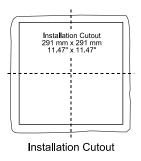
FF 5000 = 202mm (1.1.0¹) FF 7000 = 202mm (1.1.0¹) FF 7000 = 202mm (1.1.0¹)

PF 5000 = 157mm (6.18") PF 6000 = 158mm (6.22") PF 7000 = 125mm (4.93")

Technical references and DXF downloads available at www.hammfg.com

Installation Cutout 223 mm × 223 mm 8.78" × 8.78"

Installation Cutout



Note: All cutout tolerances +1/- 0 mm

All dimensions in inches unless specified otherwise

409



Fan Accessories



Exhaust Filters

- Built to IP54 standards (except PFA1000 IP43 standards).
- ABS-FR grills (except PF1000 Series which is polystyrene FR).
- Self-extinguishing, re-usable filter mat.
- Grills are black to complement all cabinet colors.
- · Grills also available (see below)
- Integral gasket seals against
- enclosure.

Part No.	Filter Density (g/m²)	Filtering Level	Comparable IP Standard
PFA1000	150	73%	IP43
PFA2000	150	73%	IP54
PFA3000	150	73%	IP54
PFA5000	150	73%	IP54



Replacement Grill

- Packaged individually.
- · Consists of replacement grill only.

Black	RAL7032 Beige	Use With Filter Fan	Use With
Part No.	Part No.		Exhaust Filter
PG1BK	PG1RAL	PF1000	PFA1000
PG2BK	PG2RAL	PF2000	PFA2000
PG3BK	PG3RAL	PF2500/PF3000	PFA3000
PG5BK	PG5RAL	PF5000/PF6000/PF7000	PFA5000

Climate Control

410



Replacement Filters

- Packaged in quantities of 5.
- · Made of self-extinguishing synthetic fibers.

Part No.		Dime	nsions	Use With	Filter Density
		А	B	Filter Fan	(g/m²)
PFF1000	inch	3.40	3.40	PF1000	150
	mm	85	85		
PFF2000	inch	4.50	4.50	PF2000	350
	mm	115	115		
PFF3000	inch	8.30	8.30	PF2500/PF3000	350
	mm	210	210		
PFF5000	inch	11.00	11.00	PF5000/PF6000/PF7000	350
	тт	280	280		

Call Hammond for other Cooling Solutions....

- Intergral Door Air Conditioners
- Air/Water Heat Exchangers
- Custom Air/Air Heat Exchangers
- EMC Filter Fans
- other customer cooling solutions through our knowlegeable Pfannenberg experts

Technical references and DXF downloads available at www.hammfg.com

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Data Subject to change without notice

Filterfan Rainhoods - NEMA 3R



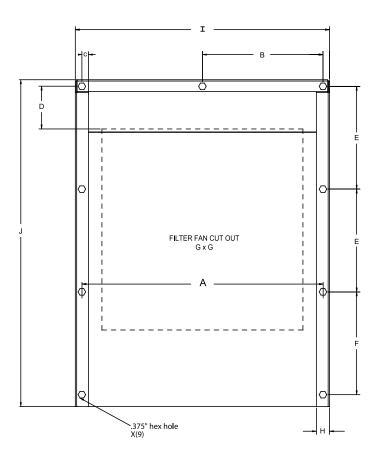
ENCLOSURES

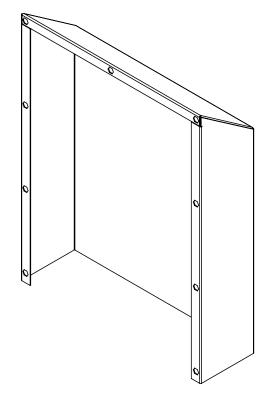
Applications

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- NEMA 3R / Outdoor Rainhoods Standard Filterfans
- Fits sizes PF 2000, PF 25/3000 & PF 5/6/7000 Units
 - 304 Stainless Steel Design for use on Washdown NEMA 4X enclosures
- Due to dust protection regulations, NEMA 4/4X rating on these systems is not possible.
- · Gasket and sealing washers included.

Part No.	Goes With	Color
PFRH2000LG	PF/PFA2000	RAL7035
PFRH2000GY	PF/PFA2000	ANSI 61 Grey
PFRH2000SS	PF/PFA2000	304 Stainless Steel
PFRH3000LG	PF/PFA2500/3000	RAL7035
PFRH3000GY	PF/PFA2500/3000	ANSI 61 Grey
PFRH3000SS	PF/PFA2500/3000	304 Stainless Steel
PFRH5000LG	PF/PFA5000/6000/7000	RAL7035
PFRH5000GY	PF/PFA5000/6000/7000	ANSI 61 Grey
PFRH5000SS	PF/PFA5000/6000/7000	304 Stainless Steel





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All dimensions in inches unless specified otherwise



Filtered Fan Boxes and Filter Grills

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Filtered Fan Box



Filter Grill

Description

- · In a typical cooling arrangement, the filtered fan box pulls air into the enclosures and the filter grill is used as an air outlet.
- The washable aluminum filter grill and the air filter are easily accessible and can be removed for cleaning.
- The filtered fan boxes are available in either 115 VAC or 230 VAC, 50/60 Hz.
- Filtered passive ventilation can be provided by an exhaust filter for either convection cooling or in combination with a fan in forced air cooling.

Standards

Climate Control

- UR/CUR/CE approved fan motors.
- · CSA listed on fan only.

C Hammond Manufacturing

Features

- 115 VAC or 230 VAC, 50/60 Hz.
- 12" lead wires. ٠
- · Exceptionally quiet operation.
- Versatile mounting and adaptability.
- Heavy-gauge steel construction.
- Attractive stainless steel grills.
- Shipped with air flow to pressurize. Can be user modified to exhaust.
- Aluminum filter is coated with • adhesive baffle surfaces for dust and dirt collection. Can be recoated after cleaning for optimum performance.
- Drilling template included.
- · NOTE: One grill and filter are included with each fan package. Normally, an additional exhaust grill and filter are required for each installation and must be ordered separately.

Accessories

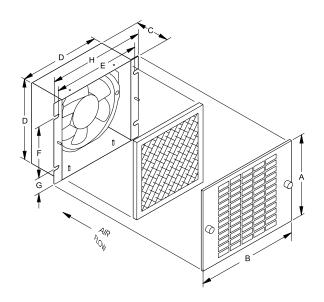
- Filter coat...see page 413
- Replacement Filter...see page 413

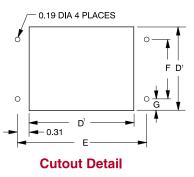
All dimensions in inches unless specified otherwise

USA: 716.630.7030



Filtered Fan Boxes and Filter Grills





Filtered Fan Boxes

Part No.	Free Flow Air Delivery CFM	Volts	RPM Nominal	Running Amps	Watts	A	В	С	D	D¹	E	F	G	Н	Ship Wt. Ibs
XF4115	105	115	3000	0.18	15	6.13	7.38	2.38	5.63	5.75	6.38	4.13	0.78	7.0	5
XF4230	105	230	3000	0.09	15	6.13	7.38	2.38	5.63	5.75	6.38	4.13	0.78	7.0	5
XF6115	220	115	3300	0.29	33	7.63	8.88	3.00	7.13	7.25	7.88	4.50	1.34	8.5	6
XF6230	220	230	3300	0.15	33	7.63	8.88	3.00	7.13	7.25	7.88	4.50	1.34	8.5	6
XF10115	560	115	1600	0.87	60	11.63	13.00	4.56	11.13	11.25	11.88	6.88	2.16	12.5	12
XF10230	560	230	1600	0.45	60	11.63	13.00	4.56	11.13	11.25	11.88	6.88	2.16	12.5	12

Exhaust Grill and Filters

Part No	А	В	D	E ¹	F ¹	H ¹
XFG4	6.13	7.38	5.63	6.38	4.13	7.00
XFG6	7.63	8.88	7.13	7.88	4.50	8.50
XFG10	11.63	13.00	11.13	11.88	6.88	12.50

Replacement FiltersPart NoPkg. Qty.XFF43XFF63XFF103

Climate Control

¹ Dimension for mounting and cabinet cutout. Secure sheet metal with #8 hardware.



Filter Coat

- Provides a filter adhesive with a grease-like consistency which absorbs and traps dust particles.
- 10 oz. bottle with environmentally friendly trigger spray.

Technical references and DXF downloads available at www.hammfg.com

All dimensions in inches unless specified otherwise



General Accessories General Accessories

ENCLOSURES



Floor Stand Kit

Steel Part No

- · Kit includes two mounting feet and hardware kit.
- Pre-punched mounting feet may be used as a

Stainless Steel

template to drill holes on bottom of enclosure. Finished in gray or natural brushed stainless steel.



Dimensions

В

С

Enclosure

А

Foot

	Part No.	Part No.	Height	Depth
	1481FA8K		6	8
A	1481FA10K		6	10
	1481FA12K		6	12
	1481FA16K		6	16
⊹∲ // -	1481FA18K		6	18
	1481FA20K		6	20
	1481FC6K		12	6
osure	1481FC8K	1481FC8KSS	12	8
Holes	1481FC10K	1481FC10KSS	12	10
	1481FC12K	1481FC12KSS	12	12
	1481FC16K	1481FC16KSS	12	16
	1481FC18K		12	18
0.44 DIA	1481FC20K		12	20
TYP 4 PLS	1481FC24K		12	24
A	1481FE6K		15	6
	1481FE8K		15	8
///	1481FE10K		15	10
0.44	1481FE12K		15	12
DIA TYP 3 PLS	1481FE16K		15	16
Ф	1481FE18K		15	18
	1481FE24K		15	24
L	1481FG6K		18	6
0	1481FG8K		18	8
	1481FG10K		18	10
	1481FG12K		18	12
	1481FG16K		18	16
tg. Holes	1481FK6K		24	6
.g. 10103	1481FK8K		24	8
	1481FK10K	1481FK10KSS	24	10

1481FK12KSS

1481FK12K

1481FK16K

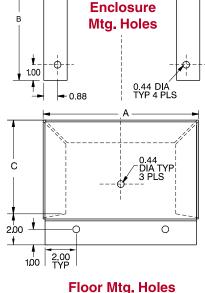
General Accessories

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All dimensions in inches unless specified otherwise



General Accessories General Accessories



1589 Vertical Power Strip

- Construction same as 1585 series with:
 - 12 gauge wire

AMMOND ANUFACTURING

ENCLOSURES

- · 20 amp power cord and circuit breaker
- · Plug types available are Nema L5-20P twist-lock or Nema 5-20P straight blade.

Part No.	No. of Outlets	Length (Inches) ¹	Switch	Cord Length	Cord Type
1589T36C1	6	36"	No	6'	Twist-Lock
1589T36F1	6	42"	No	6'	Straight
1589T42C1	7	42"	No	6'	Twist-Lock
1589T42F1	7	42"	No	6'	Straight
1589T48C1	8	48"	No	6'	Twist-Lock
1589T48F1	8	48"	No	6'	Straight
1589T60C1	10	60"	No	6'	Twist-Lock
1589T60F1	10	60"	No	6'	Straight
1589T70C1	10	70"	No	6'	Twist-Lock
1589T70F1	10	70"	No	6'	Straight
1589T77C1	12	77"	No	6'	Twist-Lock
1589T77F1	12	77"	No	6'	Straight

Extra Mounting Clips

Part No.



Remote Receptacle

- 125V/15A max. receptacle
- mounts to 35mm DIN rail (not included)
- ٠ 3.6"H x 2.4"W x 1.9"D
- CE, UL/cUL component recognized



CE



1585CLIP







Gland Plates

- 14 gauge mild steel gland plate allows for easy cable entry into enclosure
- Maintains NEMA 12, 4 rating
- ٠ Hardware and cutout template included
- Available in ANSI 61 Gray and RAL 7032 Beige

Part No.	Plate Size Finish	Fits Opening Height	Ship Wt. Width	Height	Width	lbs.
GP063	RAL 7032 Beige	6.31	2.75	5.06	1.5	3
GP134	RAL 7032 Beige	13.00	3.56	11.75	2.31	3
GP136	RAL 7032 Beige	13.38	5.88	12.13	4.63	4
GP216	RAL 7032 Beige	20.88	5.88	19.63	4.63	5
GP063GY	ANSI 61 Gray	6.31	2.75	5.06	1.5	3
GP134GY	ANSI 61 Gray	13.00	3.56	11.75	2.31	3
GP136GY	ANSI 61 Gray	13.38	5.88	12.13	4.63	4
GP216GY	ANSI 61 Gray	20.88	5.88	19.63	4.63	5

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All dimensions in inches unless specified otherwise

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Heating Products



Heaters

- · Designed to provide enclosed electronic, pneumatic, hydraulic and mechanical equipment with protection from low temperatures, condensation and corrosion.
- The PTC (Positive Temperature Coefficient) heater unit maintains a stable temperature environment within enclosures, allowing critical components to perform with consistent reliability for longer periods.
- Heating power adjusts to ambient temperature .
- ٠ Push connectors for quick and easy wiring

Part No.	Watts ¹	Max. Current ²	L (in.)	Ship Wt Ibs
SHG14000	15 W	1.5 A	2.56	1
SHG14001	30 W	3.0 A	2.56	1
SHG14003	45 W	3.5 A	2.56	1
SHG14005	60 W	2.5 A	5.51	1
SHG14006	75 W	4.0 A	5.51	1
SHG14007	100 W	4.5 A	5.51	2
SHG14008	150 W	8.0 A	8.46	2

¹ At 68°F (20°C) ambient temperature. ² Inrush current

-	
Operating Voltage:	AC/DC 110 - 250 V
Heating Element:	PTC resistor, self regulating
Heating Body:	Anodized extruded aluminum
Connection:	Push-type terminals for stranded and solid wire 3 x AWG 20 AWG 16 (0.5 - 1.5 mm ²)
Mounting:	Easily installed by clip mounting on 35 mm DIN rails (included)
Protection Class:	I, test voltage 1600 V
Protection:	IP20
Approval:	UL Recognized Component, cUL Recognized Component, CE

Fan Heaters

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- · For use when larger heating capacities or internal forced air circulation is required.
 - Designed to prevent condensation or maintain



minimum temperature in enclosures. Thermostats are also available.

Part No.	Watts	Surface Temperature	Starting Current	Dimensions L x W x D	Ship Wt. Ibs
SHGL04600	250 W	167°F	2.2 A	7.00 x 3.15 x 3.15	2
SHGL04601	400 W	167°F	3.5 A	9.76 x 3.15 x 3.15	3

Operating Voltage:	AC 110-120 V, 50/60 Hz
Circulation Power:	20 CFM Free Blowing
Axial Fan:	Ball bearing
Durability:	30,000 hrs. at 68°F ambient temperature
Heating Element:	Resistance heating element with temperature limiter
Heating Body:	Extruded aluminum, black anodized
Connection:	3 pole terminal for 12 AWG
Mounting:	Easily installed by clip mounting on 35 mm DIN rails (included)
Protection Class:	1 (tested for grounding at 1250 V)
Protection:	IP20
Approval:	UL Recognized Component, cUL Recognized Component, CE

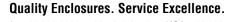
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Heating Products

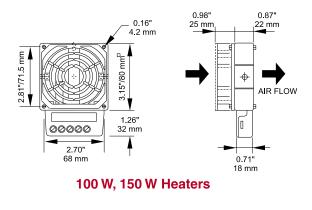


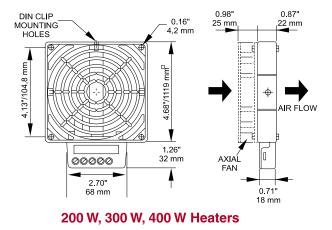
Control Panel Heater

- When larger heating capacities or internal forced air circulation is required and space is limited.
- Compact design to prevent condensation or maintain minimum temperature in enclosures.
- Fan is included.
- Thermostats available

Part No.	Watts	Operating Current (Amps)	Volts	Temperature Maxi- mum with Fan	Ship Wt. Ibs
SHV031029	100 W	0.89	AC 120	250°F/120°C	1
SHV031039	150 W	1.30	AC 120	320°F/160°C	1
SHV031139	200 W	1.79	AC 120	250°F/120°C	1
SHV031149	300 W	2.62	AC 120	320°F/160°C	1
SHV031159	400 W	3.45	AC 120	360°F/180°C	1

Operating Voltage:	AC 110 -120 V 50/60 Hz
Air Flow:	20 CFM (100W, 150W heaters), 63 CFM (200W, 300W, 400W heaters)
Axial Fan:	Ball bearing
Durability:	30,000 hrs. at 68°F ambient temperature
Heating Element:	Cartridge heater
Heating Body:	Die cast aluminum
Connection:	5 pole terminal for 14 AWG (maximum)
G/L1/N1:	Heater
L2/N2:	Fan
Mounting:	Easily installed by clip mounting on 35 mm DIN rails (included)
Protection class:	1 (tested for grounding at 1250 V)
Protection:	IP44
Approval:	UL Recognized Component, cUL Recognized Component,CE





Climate Control

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Heating Products



High Wattage Fan Heater

- For large heating capacity requirements.
- · Maintains minimum operating temperatures in enclosures.
- Helps prevent failures to components caused by condensation and corrosion.
- Built-in thermostat and control light.
- Heating power adjusts to ambient temperature.
- Heat exits top of fan heater. (add 2" clearance for heat sensitive parts)

Part No.	Watts	Inrush Current (Amps)	Volts	Temperature Maximum with Fan	Ship Wt. Ibs
SCR027009	550 W	11 A	AC 120	250°F/120°C	2
SCR027009230	550 W	13 A	AC 230	250°F/120°C	2
SCR027019	650 W	12 A	AC 120	320°F/160°C	2.4

Air Flow:	20 CFM (550W), 26 CFM (650W)
Thermostat Range:	32 - 140 degrees Fahrenheit
Heating Element:	PTC - Semiconductor/resistor
Housing:	Plastic, rated UL94-VO
Connection:	3 pole terminal, AWG 14 max (2.5 mm ²)
Mounting:	Clip for 35mm DIN rail
Protection Class:	II (Double Insulated)
Protection Type:	IP20
Approval:	UL Recognized Component, cUL Recognized Component, CE

Climate Control



Fan	Heater	with	Thermostat
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- Designed to prevent condensation or maintain minimum temperature in enclosures.
- Built in Thermostat. (-18 C to +38 C) (0 F to +100 F)
- · Fan Auto/On switch with pilot light for Heat On indication
- 20 CFM airflow
- High temperature safety protection
- Aluminum alloy outer casing
- Connection via terminal block.

			Overall Dimensions	
Part No.	Watts	Voltage	Height x Width x Depth	Ship Wt. Ibs
FLHTF125A115	125 W	120V	5.5" x 4.0" x 5.3"	2.2
FLHTF125A230	125 W	240V	5.5" x 4.0" x 5.3"	2.2
FLHTF200A115	200 W	120V	5.5" x 4.0" x 5.3"	2.2
FLHTF200A230	200 W	240V	5.5" x 4.0" x 5.3"	2.2
FLHTF400A115	400 W	120V	7.5" x 4.0" x 5.3"	3.0
FLHTF400A230	400 W	240V	7.5" x 4.0" x 5.3"	3.0
FLHTF800A115	800 W	120V	7.5" x 4.0" x 5.3"	3.0
FLHTF800A230	800 W	240V	7.5" x 4.0" x 5.3"	3.0

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General Accessories

Hardware

Latch Kits for Single Door Type 12 Enclosures

- Designed for field installation on most 1418 Series single door enclosures (does not fit 1418 J Series).
- · Available with key locking, padlocking, and non-locking handles.
- Single point kits include a handle and latch cam.
- ٠ Three point kits include a handle, latch cam, latch rods and adjustable rod guides.
- · Latch rod ends have rollers for easier door closing.
- All parts are plated or painted for corrosion resistance.



Non-Locking Handle	Handle Rotation	Locking Handle	Handle Rotation	"Tee" Locking Handle	Description
AHK1	clockwise	AHKL1	counter clockwise	THK1	1 point latch
AHK2	clockwise	AHKL2	counter clockwise	THK2	3 point latch 48" and under
AHK3	clockwise	AHKL3	counter clockwise	ТНК3	3 point latch 60" and over

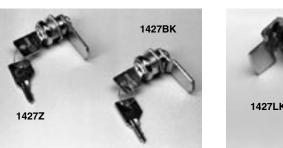
Padlocking Handle	Locking & Padlocking Handle	Description
PHK1	PHKL1	1 point latch
PHK2	PHKL2	3 point latch 48" and under
PHK3	PHKL3	3 point latch 60" and over



Lock Kit for NEMA 1 Enclosures

Hardware

General Accessories





- · Installs in place of the existing slotted latch, or in cutout hole provided.
- Reversible cam position for other applications.
- Maintains NEMA1 rating.

Part No.	Fits Enclosure Series
1427LKN1	1420, N1A
1427BK	1439 Flush Mount
1427Z	1439 Surface Mount Kit
N1JLK	N1J, CHKO



Lock Kit for 1418 Type 4 and 12 Enclosures

- · Designed for installation on most 1418 Series single door enclosures (does not fit 1418 J Series).
- Requires a drilled or punched hole to receive cylinder lock.
- Internal "0" ring provides dust and water tight construction.
- Maintains NEMA rating.

Part No.	1427LKN4

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General Accessories

Touch-Up Spray Paint

- For use in matching standard Hammond colors.
- Provided in 12 oz. spray cans.

Touch Up - Spray Can

	•
Part No.	Color
1413BKLGS	Black - Low Gloss
1413BKS	Black
1413CGRALS	Beige RAL7032
1413GFS	Gulf Blue
1413LRS	ANSI 61 Gray
1413NS	White
1413LGS	Light Gray 7035



Louvered Ventilating Plate

- Provides ventilation in enclosures where required.
- Easily installed in the field by cutting a square hole of the proper size and bolting the ventilator in place.
- Finished in gray.
- Hole diameter is 0.22".



Part No.	Plate Size		No. of	No. of	Louvers	Opening
	Height	Width	Louvers	Rows	Length	Area (in ²)
1481L44	5.62	5.5	4	1	4	3.0
1481L66	7.87	7.5	14	2	2	2.8
1481L88	10.56	10.5	18	2	4	14.0



Casters

•

- Packaged in sets of four.
- 800 lb. load capacity per set.
- · 4" swivel casters with brakes.
- Features zinc plated ball bearing pivot, composite wheels.

Part No. 1425D





1425 Series Casters

- Packaged in sets of four.
- Feature ball bearing, swivel and hard composition wheels.
- Available for 3 weight capacities.

Part No.	Mfg. Specified Capacity (Set of 4)	Wheel Diameter (inches)
1425B	360	3.0
1425BM	700	3.0
1425BH	1050	3.0



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General Accessories Panel Accessories



ANUFACTURING

ENCLOSURES



How To Order

- Each enclosure requires one bracket assembly kit and the required number of straps (order separately).
- Determine if strap will be mounted parallel to dimension "A" or "B".
- Choose the part number that corresponds to enclosure dimensions "A" or "B".
- When choosing a bracket assembly to be parallel to dimension "B" in an enclosure of 24", 30" or 36" width, determine if a two or three bracket assembly is required. When enclosures are 48" or greater on "A" dimension, 6 collar studs are used.
- Choose strap kit to correspond to the other enclosure dimensions.
- Order the number of kits equal to the number of straps required.

Terminal Kit for 1418 Enclosures

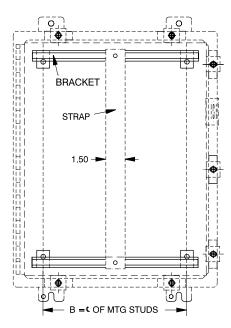
- Used to provide convenient mounting for terminal blocks, pneumatic controls or small relays in 1418 wallmount enclosures.
- Brackets may be installed horizontally or vertically in an enclosure if the size corresponds to enclosure length or width.
- Finished in white.

Bracket Assembly

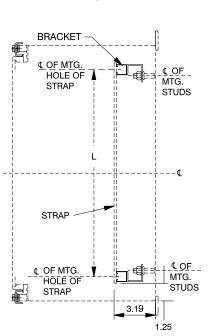
- · Each kit consists of two or three brackets per assembly.
- Brackets combined with collar stud length provide 3" minimum clearance from the rear of the enclosure.
- "C" channel construction provides easy alignment of terminal straps.

Terminal Strap

- 1.5" wide x 0.187" thick steel.
- · Each strap includes spring locking hardware.
- · Countersunk holes in straps provide extra terminal mounting space.



Front View



Side View

	Strap		
Dim	Part No.	Length	Usable Mounting Space (L)
	18S12	9.5	7.6
	18S16	13.5	11.6
	18S20	17.5	15.6
	18S24	21.5	19.6
	18S30	27.5	25.6
	18S36	33.5	31.6
	18S42	39.5	37.6
	18S48	45.5	43.6
	18S60	57.5	55.6
Dim 18S12 18S16 18S20 18S24 18S30 18S36 18S42 18S48	18S72	69.5	67.6

Bracket Assembly

	Number of			
Part No.	Brackets	Length	В	Parallel Enclosure Dim
18B212	2	8.5	7.25	12
18B216	2	12.5	11.25	16
18B220	2	16.5	15.25	20
18B224	2	20.5	19.25	24
18B324	3	20.5	19.25	24
18B230	2	26.5	25.25	30
18B330	3	26.5	25.25	30
18B236	2	32.5	31.25	36
18B336	3	32.5	31.25	36

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Thermostat

Sensor Element:

Connection:

Mounting:

Housing:

Protection:

Approval:

Color:

Adjustment Range:

Accessory Products



signal transmitters in case of overheating.

· Available in Fahrenheit or Celsius.

Switching difference (hysteresis):

Designed to provide air temperature control and monitoring in cabinets.
Thermostat NC (Normally Closed) for the control of heaters and heater fans.
Thermostat NO (Normally Open) for the control of cooling units, or for switching

Thermostatic bi-metal

DIN rails (included)

2 pole terminal for AWG 14 (2.5mm²)

Flame retardant plastic UL94VO

Component, CE, CSA Listed

Easily installed by clip mounting on 35 mm or 38 mm

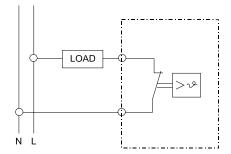
UL Recognized Component, cUL Recognized

±4°F (±3°K) 30-140°F

Gray (SB)

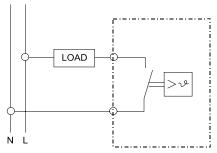
IP20





NC - Normally Closed (Red)

Used in conjunction with heaters. Contact opens when rising temperatures reach the set point temperature shutting heater off.



NO - Normally Open (Blue)

Used in conjunction with fans. Contact closes when rising temperatures reach the set point temperature turning fan on.

Part No.	Scale	Contact Type	Dimensions Height x Width x Depth	Switching Capacity	Ship Wt. Ibs
SKT011409NC	°F	Normally Closed	2.4 x 1.6 x 1.4	15 A (1) AC 120 V, 10 A (1) AC 250 V	1
SKT011409NC-C	°C	Normally Closed	2.4 x 1.3 x 1.4	15 A (1) AC 120 V, 10 A (1) AC 250 V	1
SKT011419NO	°F	Normally Open	2.4 x 1.6 x 1.4	15 A (1) AC 120 V, 10 A (1) AC 250 V	1
SKT011419NO-C	°C	Normally Open	2.4 x 1.3 x 1.4	15 A (1) AC 120 V, 10 A (1) AC 250 V	1

Climate Control

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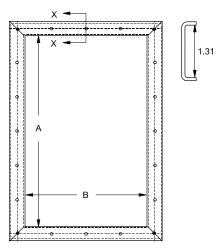
General Accessories

Window Kits



Steel and Stainless Steel Window Kits

- Designed to maintain environmental protection level of Type 4, 4X (for stainless steel) as noted
- Window is 0.25" thick, UV resistant Polycarbonate.
- Frame is heavy gauge steel, or 304 stainless steel with integral weld studs and compression clips.
- Oil resistant neoprene gasket ensures a watertight seal.
- Finished in gray or natural brushed stainless steel.



Part No.	Material	Window [Dimensions	Recom	mended
Falt NO.	Material	А	В	Cut-O	ut Size
1481WN40503 1	Steel	5	3.0	6.69	4.69
1481WN40905 1	Steel	9	5.5	10.69	7.19
1481WN41303 1	Steel	13	3.0	14.69	4.69
1481WN41308 1	Steel	13	8.0	14.69	9.69
1481WN41705 1	Steel	17	5.5	18.69	7.19
1481WN41711 1	Steel	17	11.0	18.69	12.69
1481WN42315 1	Steel	23	15.0	24.69	16.69
1481WN42919 1	Steel	29	19.0	30.69	20.69
1481WN43523 1	Steel	35	23.0	36.69	24.69
1481WN4SS0503 2	Stainless Steel	5	3.0	6.69	4.69
1481WN4SS0905 2	Stainless Steel	9	5.5	10.69	7.19
1481WN4SS1308 2	Stainless Steel	13	8.0	14.69	9.69
1481WN4SS1711 ²	Stainless Steel	17	11.0	18.69	12.69
1481WN4SS2315 ²	Stainless Steel	23	15.0	24.69	16.69
1481WN4SS2919 2	Stainless Steel	29	19.0	30.69	20.69

¹ UL/ CSA Type 12 and Type 4

² UL/ CSA Type 12, Type 4 and Type 4x



Frameless Window Kits

- Designed for indoor use on Type 12 and 13 enclosures.
- Scratch resistant polycarbonate window is 0.25 inches thick.
- Double sided tape is on the window for easy installation.
- · Mounting hardware and template are included.

Part No.	Window Dir	mensions	Maximum		
	А	В	Cut-Out	Size	
1481WFL52	5.50	3.00	4.50	2.00	
1481WFL133	13.88	3.88	12.88	2.88	
1481WFL96	9.62	7.19	8.62	6.19	



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