

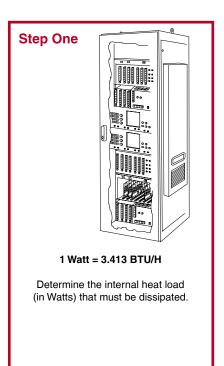
# **Cooling Products**

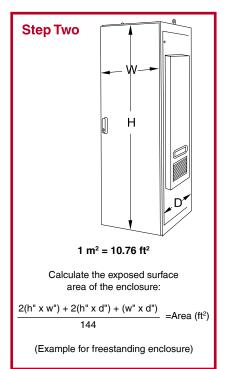
Sizing an Air Conditioner

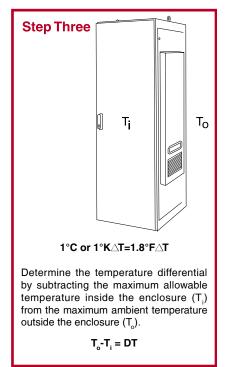
# Sizing an Air Conditioner

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.







**Step Four** 

(Watts x 3.413)

+ [1.25 x Area ft<sup>2</sup>

X DT (°F)] = BTU/H

Capacity Required BTU/H. Capacity Rating.

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**

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 1200 BTU/H





# **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

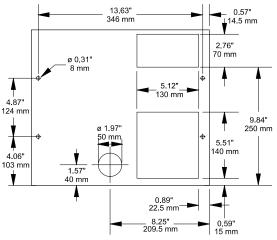
#### **Features**

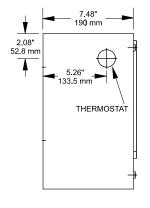
- · R134a refrigerant.
- · Thermostat control.
- Continuous air circulation from high capacity fans.

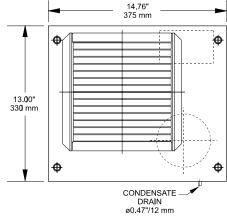
- EMI/RFI suppression meets CE.
- Line cord with plug (115 V).
- Washable filter mat protected within an easily removable grill.
- Gasket, mounting kit and template for enclosure cutout and drilling are included.
- Condensate drain hose and clamp provided.
- Exterior case easily removable for field service.
- 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







Drilling Template

**Right Side View** 

**Front View** 

1 200 BTU/H (350 Watts)

Part Number	Ship Wt. lbs
DTS1200A115LG	42
DTS1200A230LG	42

#### **Technical Data**

roommour Butu		
Electrical Data	DTS1200A115LG	DTS1200A230LG
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	200 W	200 W
Running Amps	2.2 A	1.3 A
Starting Current	15.7 A	9.5 A
Line Cord	With plug	Without plug

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

nated Capacity	1,200 B10/11 (330 Walls)
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/m <sup>2</sup>
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

All dimensions in inches unless specified otherwise

Canada: 519.822.2960 or 905.456.3770

Refrigeration Data



# **Side Mounting DTS Series**



## **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
- · UR, cUR and CE

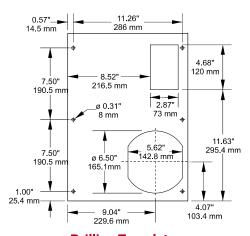
#### **Features**

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

- · 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

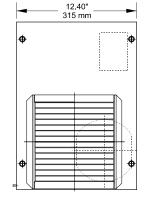
- Gaskets...see page 400
- Replacement filters...see page 400
- Replacement grill...see page 400



**Drilling Template** 

	10.04" <b>&gt;</b> 255 mm	
	-	₽
17.52" 445 mm		
	CONDENSATE DR Ø0.47"/12 mm	AIN

**Left Side View** 



**Front View** 

Part Number	Ship Wt. lbs
DTS2000A115LG	54
DTS2000A230LG	54

#### **Technical Data**

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

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 <sup>2</sup>
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

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

All dimensions in inches unless specified otherwise

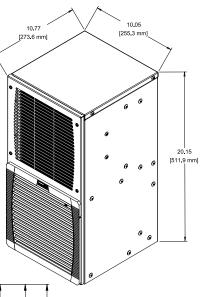


# Side Mounting DTS Series 2500 BTU/H



# **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.



# 

#### **Technical Data**

roommour Butu			
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

#### **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" system

#### **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

Canada: 519.822.2960 or 905.456.3770



# 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.

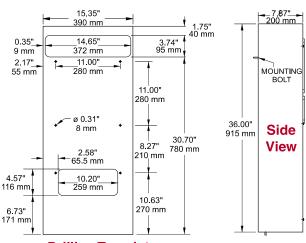
# **Standards**

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

## **Features**

- · 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.

# R R



# T5.35" 390 mm Front View CONDENSATE DRAIN Ø0.47"/12 mm

# **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

#### **Drilling Template**

Note: Any unmarked radius is ø 0.79"R

Part Number	Ship Wt. lbs
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

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



# 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
- · 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.

## **Accessories**

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

# Technical Data

Ship Wt. lbs.
99
99
127
127

Electrical Data	DTS3141A115LG DTS3141A230LG	DTS3241A115LG DTS3241A230LG
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/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
Line Cord	Terminal Block	Terminal Block

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

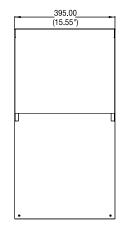
All dimensions in inches unless specified otherwise

Canada: 519.822.2960 or 905.456.3770

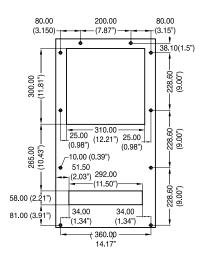


# **Side Mounting DTS Series** 4000 & 7500 BTU/H

#### **DTS 3141**



292.18 (11.50") 748.17 (29.46") 236.68

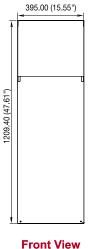


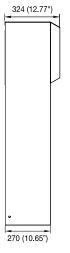
**Front View** 

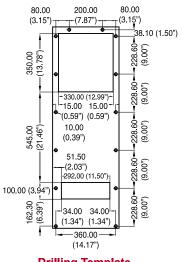
**Side View** 

**Drilling Template** 

## **DTS 3241**







**Side View** 

**Drilling Template** 

Refrigeration Data	DTS3141A115/ 230LG	DTS3241A115/ A230LG
Rated Capacity	4,000 BTU/H (1,172 Watts)	7,500 BTU/H (2,197 Watts)
Type of Refrigerant	R134a	R134a
Refrigerant Charge	500 g	500 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 350 CFM	Internal Circulation 580 CFM
	External Circulation 350 CFM	External Circulation 580 CFM
Condensate Discharge	Condensate Evaporator	Condensate Evaporator
Filter Mat	Filterless	Filterless
Db Noise Level	≤ 70 dB(A)	≤ 73 dB(A)
Unit Weight	80 lbs (36 kg)	101 lbs (46 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 8000 & 12000 BTU/H



# **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
- · 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.
- 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

Part Number	Ship Wt. lbs.
DTS8000A115LG	189
DTS8000A230LG	189
DTS12000A115LG	189
DTS12000A230LG	189

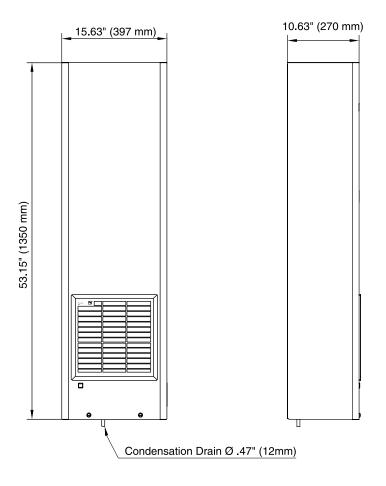
#### **Technical Data**

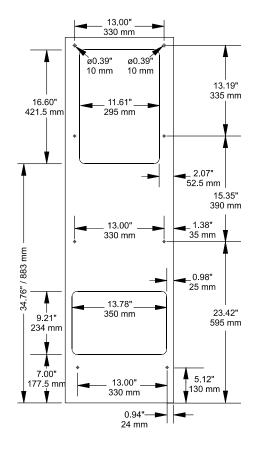
Electrical Data	DTS8000A115LG	DTS12000A115LG
	DTS8000A230LG	DTS12000A230LG
Rated Voltage	115 V 60 Hz/	115 V 60 Hz/
	230 V 50/60 Hz	230 V 50/60 Hz
Range of Operation	103-127 V/187-253 V	103-127 V/187-253 V
Power Consumption	2,100 W/1,800 W	2,300 W/2,000 W
Running Amps	21.0 A/12.5 A	21.0 A/12.5 A
Starting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



# Side Mounting DTS Series 8000 & 12000 BTU/H





**Front View** 

**Side View** 

**Drilling Template** 

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 <sup>2</sup>	150 g/ m <sup>2</sup>
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

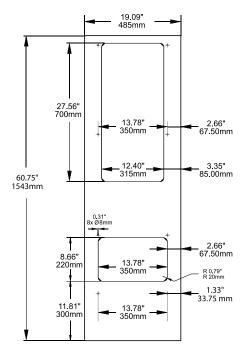
Technical references and DXF downloads available at www.hammfg.com

All dimensions in inches unless specified otherwise



# Side Mounting DTS Series 16,000 BTU/H





**Drilling Template** 

Part Number	Ship Wt. lbs
DTS9841A460LG	210

#### **Technical Data**

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	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

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



# 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



# 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
- UR, cUR, CE

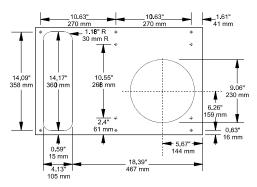
## **Features**

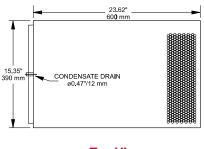
- R134a refrigerant.
- · Thermostat control.
- Expansion valve increases efficiency with improved evaporator heat transfer and less frequent compressor operation.
- Built in condensate evaporator.
- Continuous air circulation from high capacity fans.
- EMI/RFI suppression meets CE.
- Line cord with plug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

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

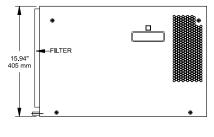
## **Accessories**

- 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





**Top View** 



**Side View** 

Drilling for cabinets with 15.75" depth only.

#### **Drilling Template**

Part Number	Ship Wt. lbs.
DTT4500A115LG	95
DTT4500A230LG	95

#### **Technical Data**

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

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/m <sup>2</sup>
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



# **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.		Dimer A	sions B	Use With Air Conditioner	Filter Density (g/m²)
DTSF3150	inch	8.30	8.30	DTS1200 - DTS6000	150
	mm	210	210		
DTSF5150	inch	11.00	11.00	DTS8000 - DTS12000	150
	mm	280	280		
DTTF5150	inch	11.81	11.81	DTT4500	150
	mm	300	300		

# **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. FLKDS



# **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



# Side Mounting DTS Series - NEMA 3R, 4, 4X

2500 BTU/H - Stainless Steel



# **Description**

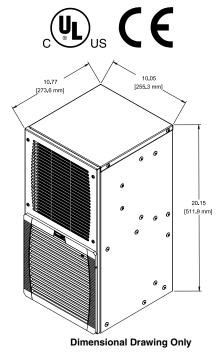
- Compact design for side mounting on any enclosure surface where spot cooling or low capacity cooling is required.
- Closed loop cooling ensures clean enclosure air is recirculated without ever mixing with contaminated ambient air.
- · Ideal for outdoor or very wet conditions.

# **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.

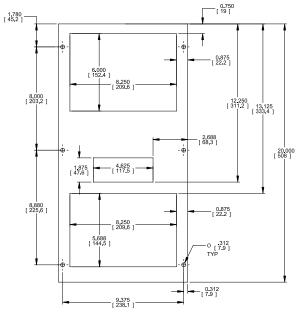


Part Number	Ship Wt. lbs.
DTS3081A115N4SS	60
DTS3081A230N4SS	60

#### **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

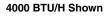


Refrigeration Data	
Rated Capacity	2,500 BTU/H (732 Watts)
Type of Refrigerant	R134a
Refrigerant Charge	400 g
Adjustable Thermostat	Factory setting +95°F (+35°C)
Max. Ambient Air Temp.	+131°F (+55°C)
Min. Ambient Air Temp.	+46°F (+8°C)
Air Capacity (unrestricted)	Internal Circulation 191 CFM
	External 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



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







# 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.

#### Ship Wt. lbs. DTS3161A115N3LG 104 DTS3161A230N3LG 104 DTS3261A115N3LG 129

#### Accessories

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

#### **Technical Data**

DTS3261A230N3LG

Part Number

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
<b>Power Consumption</b>	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

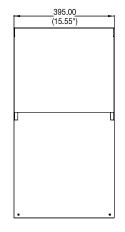
Technical references and DXF downloads available at www.hammfg.com

129



# Side Mounting DTS Series - NEMA 3R, 4

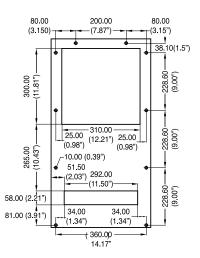
#### **DTS 3161**



**Front View** 

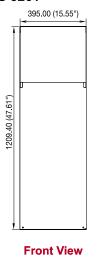


**Side View** 



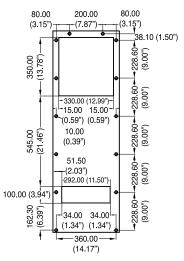
**Drilling Template** 

#### **DTS 3261**





**Side View** 



**Drilling Template** 

Refrigeration Data	DTS3161A115/230N3LG	DTS3261A115/230N3LG
Rated Capacity	4,000 BTU/H (1,172 Watts)	7,500 BTU/H (2,197 Watts)
Type of Refrigerant	R134a	R134a
Refrigerant Charge	500 g	500 g
Adjustable Thermostat	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 350 CFM	Internal Circulation 580 CFM
	External Circulation 350 CFM	External Circulation 580 CFM
Condensate Discharge	Condensate Evaporator	Condensate evaporator
Filter Mat	150 g/m²	150 g/m²
Db Noise Level	≤ 70 dB(A)	≤ 73 dB(A)
Unit Weight	84 lbs (38 kg)	120 lbs (46 kg)
Exterior Case	Galvanized Steel Powdercoat Finish	Galvanized Steel Powdercoat Finish
Finish	RAL7035 Light Grey powder finish (LG)	RAL7035 Light Grey powder finish (LG)
NEMA Rating	Enclosures IP56 /NEMA 3R/4	Enclosures IP56 /NEMA 3R/4

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

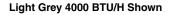
All dimensions in inches unless specified otherwise



# Side Mounting DTS Series - NEMA 3R, 4, 4X

4000 & 7500 BTU/H - Stainless Steel







# 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**

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
<b>Power Consumption</b>	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

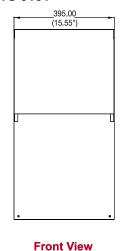
Canada: 519.822.2960 or 905.456.3770

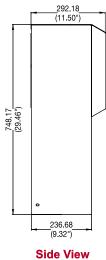


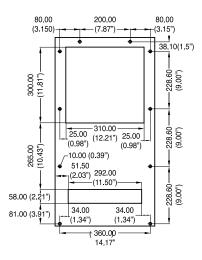
# Side Mounting DTS Series - NEMA 3R, 4, 4X

4000 & 7500 BTU/H - Stainless Steel

#### **DTS 3181**

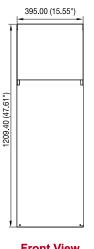






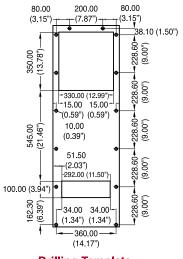
**Drilling Template** 

#### **DTS 3281**





324 (12.77")



**Front View** 

**Side View** 

**Drilling Template** 

Refrigeration Data	DTS3181A115/230N4SS	DTS3281A115/230N4SS
Rated Capacity	4,000 BTU/H (1,172 Watts)	7,500 BTU/H (2,197 Watts)
Type of Refrigerant	R134a	R134a
Refrigerant Charge	500 g	500 g
Adjustable Thermostat	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 350 CFM	Internal Circulation 580 CFM
	External Circulation 350 CFM	External Circulation 580 CFM
Condensate Discharge	Condensate Evaporator	Condensate evaporator
Filter Mat	150 g/m²	150 g/m²
Db Noise Level	≤ 70 dB(A)	≤ 73 dB(A)
Unit Weight	84 lbs (38 kg)	120 lbs (46 kg)
Exterior Case	304 Stainles Steel	304 Stainles Steel
Finish	Polish #3	Polish #3
NEMA Rating	Enclosures IP56 /NEMA 3R/4x	Enclosures IP56 /NEMA 3R/4x

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

All dimensions in inches unless specified otherwise