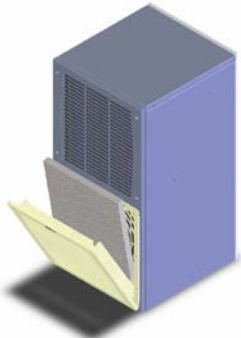


| Fault | Possible Cause | Remedy |
|--|---|--|
| Unit fails to cool. Internal fan is running. | Temperature setting too high. | Check temperature setting. |
| Unit fails to cool sufficiently. | Required cooling capacity exceeds capacity of unit. | Check ambient temperature and internal load. |
| | Dirty filter or condenser. | Clean condenser. Clean or replace filter. |
| | Lack of refrigerant. | Call authorized technician. Check unit for leaks. |
| | Internal and external fans not working. | Call authorized technician. Check fan capacitors. Replace fans. |
| Fault contacts are opened. | Air not circulating properly inside the switch cabinet. | Check enclosure and air circulation inside enclosure. Air intake and exhaust must be unimpeded by components. |
| | Power has been interrupted from unit. High pressure switch has cycled due to dirty condenser circuit. | Establish power to unit. Check condition of filter and condenser and clean if necessary. Check ambient conditions. |
| Condensate accumulates in switch cabinet. | Exiting temperature is too low. Enclosure is not sufficiently sealed. | Set cooling unit to a higher temperature setting. Close enclosure door and improve the seal in the enclosure. |
| Condensate fails to drain. | Condensate drain is clogged. | Clean condensate drainage. Condensate drainage hose must be inclined downward without showing a bend. |

Changing of Filter:



Lift gently on upper right corner of filter housing. Remove filter and follow recommendations for cleaning.

Maintenance:

The cleaning intervals depend upon the relevant operating conditions. In particular, observe the following instructions:

Clean the heat exchanger regularly.

Clean the heat exchanger using a soft brush or pressurized air.

It is recommended that the condensate run off opening be checked regularly.

If the cooling units are provided with a filter, clean the filter mat regularly. The cleaning intervals or the intervals for replacement of the filter mat mainly depends upon ambient conditions (air quality.)

You can rinse the filter mat using water heated to 40 C and commercially available mild detergent.

It is possible to remove any dirt by knocking the mat slightly, vacuum cleaning it or blowing it out.

If the filter mat is oily or greasy, please replace.

Safety:

Cooling units produced by Pfannenbergl are designed for dissipating heat from switch cabinets. During each cooling process condensate can be produced.

The cooling unit may only be used under the ambient conditions specified on the enclosed sheet.

The cooling unit is to a large measure maintenance-free, (See Maintenance Section)

Every other use is considered as non-authorized use making any warranty null and void.

The electrical equipment must be regularly checked. Any faults such as loose connections or scorched cables must be removed immediately.

Work on the cooling system and on electrical components may only be carried out by authorized specialist personnel.

Compliance with applicable safety and environmental regulations is mandatory.

Warranty Conditions:

(WARRANTY IS VALID FOR 1 YEAR)

Warranty becomes null and void:

In case of improper usage of the unit, noncompliance with operating conditions or nonobservance of instructions.

If operated in rooms in which corrosives or acids are present in the atmosphere.

In case of damage caused by contaminated or jammed air filters.

If a non-authorized person interrupts the cooling circulation, modifies the unit or changes the serial number.

In case of damage caused by transport or by accidents.

For the exchange of parts by non-authorized companies.

In order to maintain your warranty rights please observe the following when returning the unit.

Enclose an exact description of the fault in the shipping package.

Enclose proof of delivery (delivery note or copy of invoice).

Return the unit together with all accessories; use the original packaging or packaging of equivalent quality, send the unit freight prepaid and covered by an adequate transport insurance.



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885408000a



DTS 3041, 3061, and 3081 Indoor and Outdoor Cooling Units



Unpacking:

Prior to and during unpacking make a visual inspection of the cooling unit to see whether any damage has occurred during transportation.

Pay special attention to loose parts, dents, scratches, visible loss of oil etc. Any damage must be reported immediately to the delivering carrier.

Save the carton and packaging material and request an inspection.

Then file a claim with the delivering carrier.

Before disposing of packaging material ensure that it does not contain any loose components.

Danger!
Burrs caused by production may be present on the metal edges of the unit. Always wear protective gloves when carrying out maintenance work and installation. In case of a warranty claim, exact details on the fault (photograph, if possible); the unit part number and serial number of the cooling unit are required.

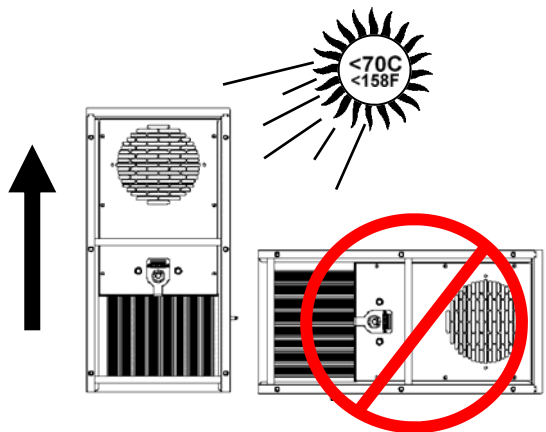
Handling:

Storage:

Failure to observe these instructions will render the warranty provisions null and void.

If it is necessary to store the air conditioner in a horizontal position prior to mounting, make sure that it is placed in a vertical position for a minimum of 1 hour prior to starting the unit.

Running the compressor without oil in the compressor will cause permanent damage to the air conditioner, and void the warranty of the unit.



TEST THE UNIT FOR FUNCTIONALITY PRIOR TO MOUNTING THE AIR CONDITIONER ON THE ENCLOSURE.

Technical Information:

Overall Dimensions: H x W x D: 515mm [25in] x 255mm [10in] x 266mm [10in]

DTS 3041/61/81: (Voltage: 115V 60Hz / 100V 50Hz, Single Phase)

Amp Draw: 6.0

Capacity (95F/95F) [35C/35C]: 2700 BTUH [800 W]

Weight: 50 Lbs. [250 Kg]

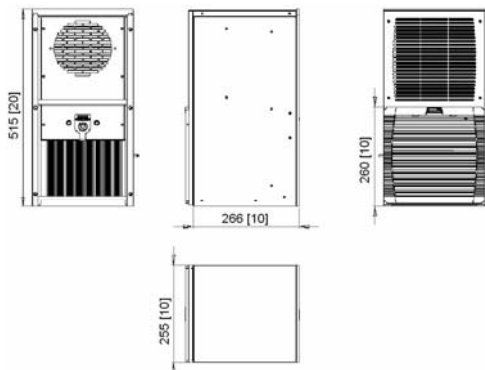
DTS 3041/61/81: (Voltage: 208-230V 60Hz / 230V 50Hz, Single Phase)

Amp Draw: 3.0

Capacity (95F/95F) [35C/35C]: 250 BTUH [730 W]

Weight: 50 Lbs. [25.0 Kg]

Overall Dimensions: mm [inches]



Mounting Insulation Installation:

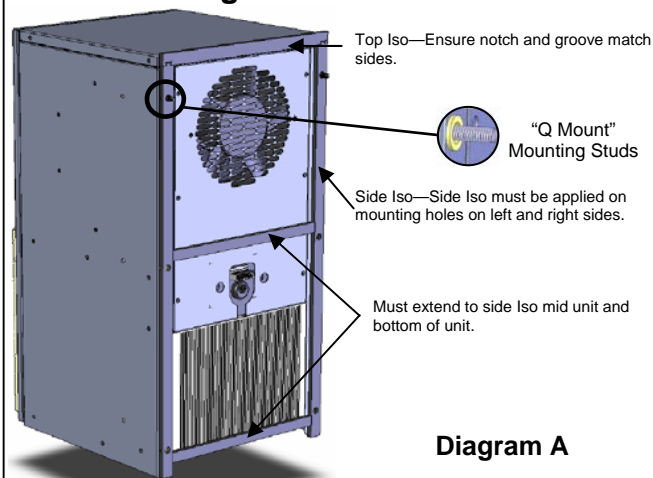


Diagram A

[Drilling Template Available on <http://www.pfannenbergsusa.com>]

General Information:

Installation:

When tightening the bolts the gasket should be evenly compressed half the thickness of the gasket.

Over compression of the gasket will not provide a better seal to the enclosure.

MAKE SURE NOTHING IS MOUNTED 6 INCHES IN FRONT OF INLET FAN.

CAUTION!

If the cooling unit is mounted on a switch cabinet door, it must be confirmed that the hinge can support the additional weight or that the switch cabinet will not topple over when the door is opened.

CAUTION!

Make cutouts required to the enclosure prior to mounting the air conditioner. Make sure that metal particles are not allowed to enter the enclosure.

Electrical Connection:

All power connections and repairs should be carried out by an authorized trained electrician.

No other equipment should be connected to this circuit to prevent overloading.

Both main voltage and frequency must correspond to the nominal values indicated on the nameplate of the cooling units.

ATTENTION!

THE COOLING UNIT MAY BE DAMAGED IF THE VOLTAGE IS TOO HIGH.

Minimum Circuit Protection Class CC

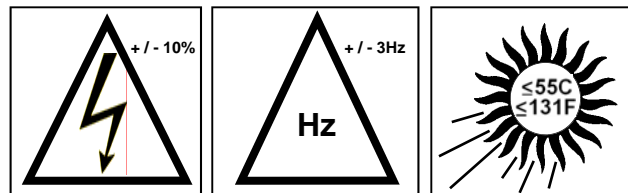
NAME PLATE

125% of Run Load Amps

Short Circuit Protection for Units is 200 Amps

Testing and Startup Procedure:

Operating Conditions:



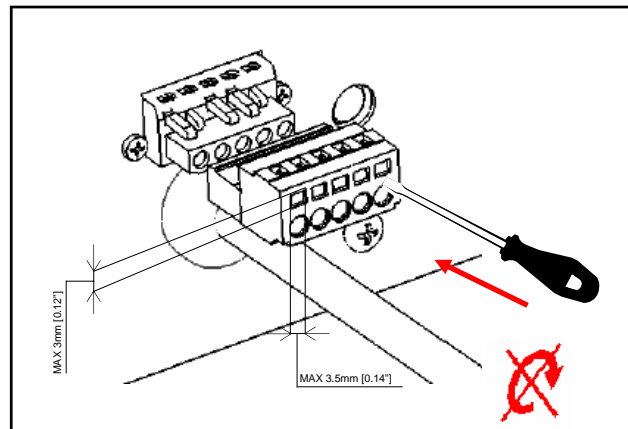
When unit is plugged in, the drawn-in switch cabinet internal air temperature is measured by a temperature sensor.

If the compressor and condenser fan do not turn on, adjust the thermostat down to a lower setting that will call for the compressor and condenser fan.

You should feel a temperature difference between the inlet and outlet air.

Door Contact: (All Units)

To avoid an increased production of condensate and for safety reasons a door limit switch should be connected to the terminals provided (see circuit diagram, housing cover or supplement.)



Centralized Fault Indication:

The signal of a fault in the cooling unit is caused by the high pressure switch being opened.

This fault is displayed by the breaking of a potential-free contact.

Therefore, if the fault wire breaks, a fault signal will be simulated.

WARNING!

THE CONTACTS MAY BE LOADED WITH MAX. 230V, 10A.