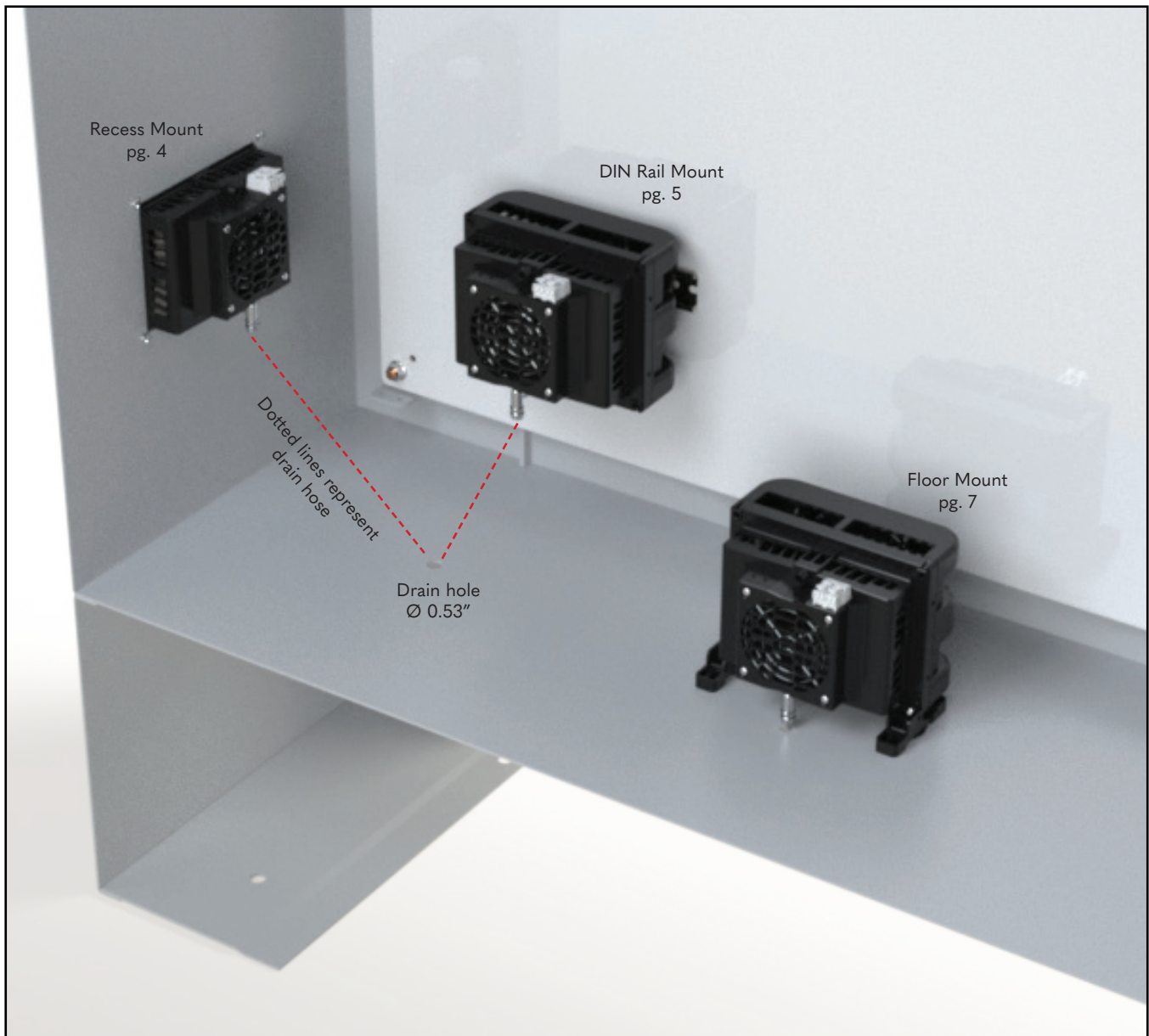


# THERMOELECTRIC DEHUMIDIFIER FOR INDUSTRIAL ENCLOSURES



## Product Description

SCE-TEDH24VDC at ambient conditions of 30°C [86°F] / 80%rH, the dehumidifier removes around 0.6 l/day [1.27 pints/day] from an enclosure.

The standard unit can be recess mounted to the wall of an enclosure without compromising a maximum ingress protection rating of IP66 or a type rating of 4/4X with the use of Type 4 Condensate Drain. Unit includes 2 Mounting brackets. These enable the unit to be internally mounted to a 35 mm DIN rail or to the floor of the unit.

When floor mounted, additional stability is provided with the use of magnets that can be mounted to the brackets.

## User Manual

This instruction manual contains information and instructions to enable the user to work safely, correctly and economically on the unit. Understanding and adhering to the manual can help one:

- Avoid any dangers.
- Reduce repair costs and stoppages.
- Extend and improve the reliability and working life of the unit.

### Intended use

To meet the conditions of use, all the information and instructions in the instruction manual must be adhered to.

## Legal Regulations

### Liability

The information, data and instructions contained in this instruction manual are current at the time of going to press. We reserve the right to make technical changes to the unit in the course of its development. Therefore, no claims can be accepted for previously delivered units based on the information, diagrams or descriptions contained in this manual. No liability can be accepted for damage and production caused by:

- Disregarding the instruction manual
- Operating error
- Inappropriate work on or with the unit
- The use of non-specified spare parts and accessories
- Unauthorised modifications or changes to the unit by the user or his personnel
- The supplier is only liable for errors and omissions as outlined in the guarantee conditions contained in the main contractual agreement. Claims for damages on any grounds are excluded.

## Safety Instructions

Upon delivery, the unit is already meeting current technical standards and can therefore be safely taken into operation. Only authorized personnel are allowed to work on the unit. Unauthorized personnel must be prohibited from working on the unit. Operating personnel must inform their superiors immediately of any malfunction of the unit.

Please note that before starting to work on or with the unit, a procedure must be carried out inside the cabinet on which the unit is to be mounted.

Before commencing work inside the cabinet, the control cabinet manufacturer's instruction must be read with regards to:

- Safety instructions.
- Instructions on taking the cabinet out of operation.
- Instructions on the prevention of unauthorized cabinet reconnection.

The electric equipment meets the valid safety regulations. One can find dangerous voltages (above 50 V AC or above 100 V DC)

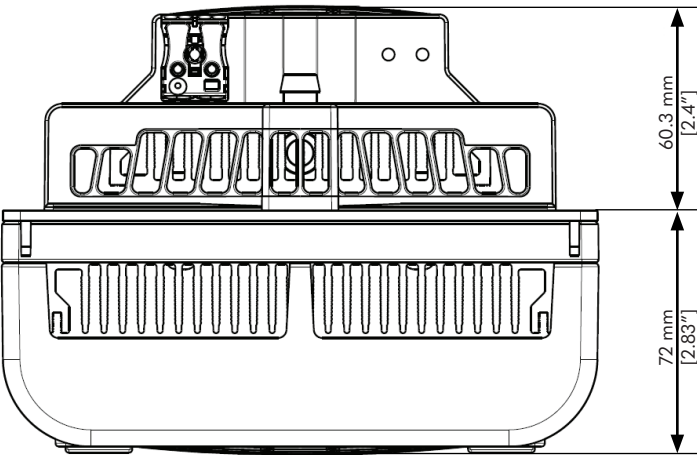
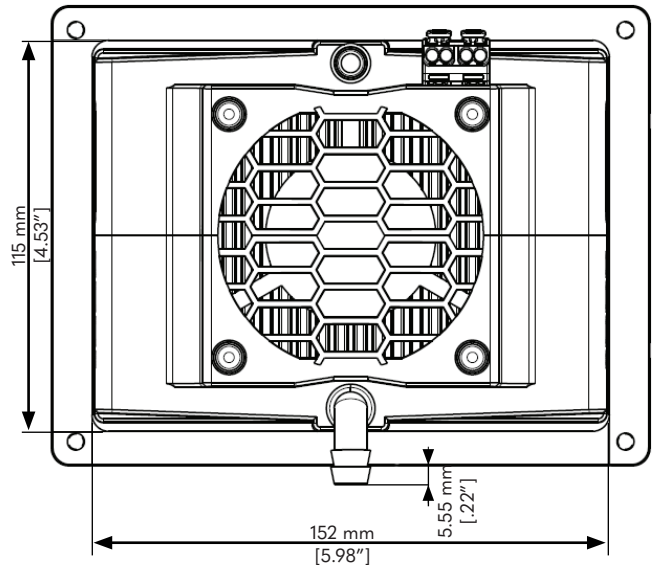
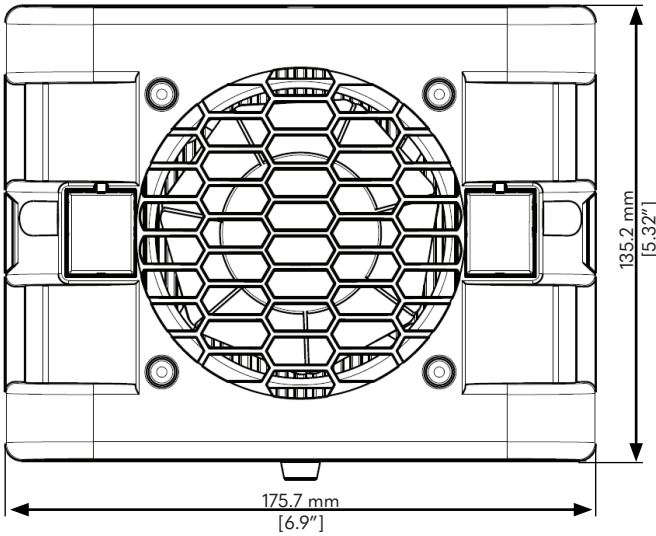
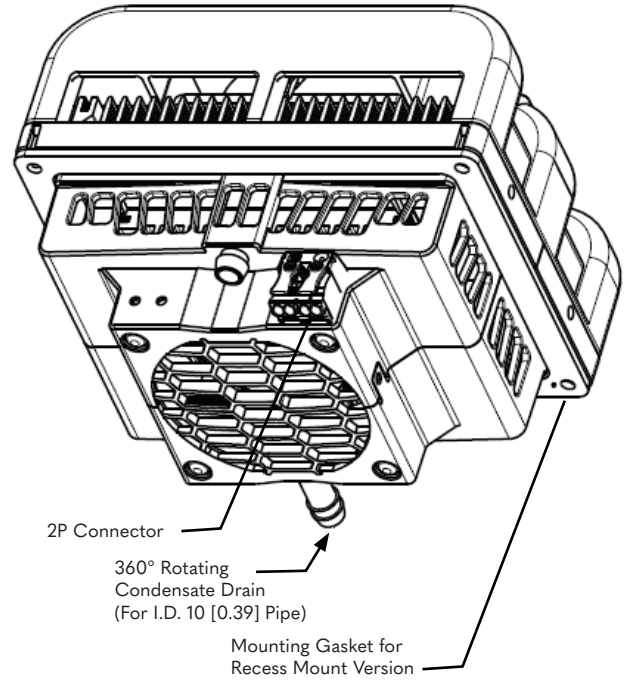
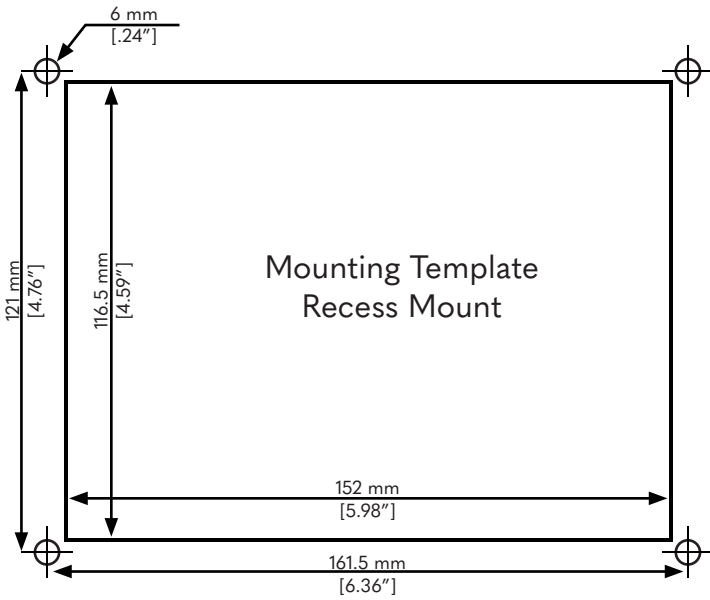
- Behind the control cabinet doors.
- On the power supply in the unit housing.

The unit has to be operated according to the type plate and the wiring diagram, and must be protected externally from overloading and electrical faults via suitable protective devices.

## Technical Data - SCE-TEDH24VDC

|   |  |
|---|--|
| Voltage                                 | 24 VDC   |
| Maximum power consumption               | 60 W   |
| Condensation (30 °C [86 °F] / 80 %r.H.) | 25 ml/hr [0.05 pints/hr]                               |
| Dimensions (W x H x D)                  |  |
| Recess Mounted                          | 176 x 136 x (72+61) mm<br>6.93" x 5.35" x (2.83"+2.4") |
| DIN Mounted                             | 176 x 136 x 141 mm<br>6.93" x 5.35" x 5.55"            |
| Floor Mounted                           | 185 x 147 x 133 mm<br>7.28" x 5.79" x 5.24"            |
| Fuse Protection                         | External (not integrated)                              |
| Fuse Recommendation                     | 4 A(T)   |
| Operating Temperature                   | 0-65 °C [32-149 °F] (max. 95 %r.H.)                    |
| Connector                               | 2-pole (screwless with paddles)                        |
| Mounting                                |  |
| Recess Mounted                          | (x4) 5mm screws (plastic thread forming)               |
| DIN Rail Mounted                        | (x2) brackets (assemble to front)                      |
| Floor Mounted                           | (x2) brackets + magnets (assemble to base)             |
| Ingress Protection                      | IP66   |
| Type Rating                             | 4/4  |
| Weight                                  | 2.27 kg (5 lb)   |
| Housing Material                        | Nylon >PA66-GF30<                                      |
| Drain Type                              | Gravity  |
| Drain Hose                              | 32.0" Length<br>0.52" OD<br>0.39" ID                   |
| Approvals                               | CE / UL  |

# Recess Mounted Unit Layout and Dimensions

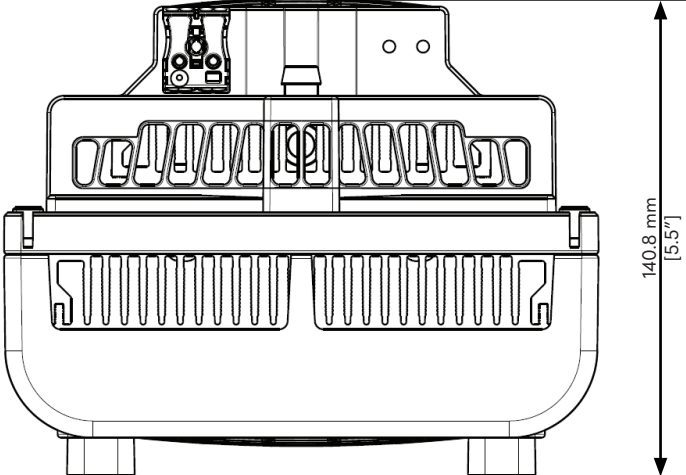
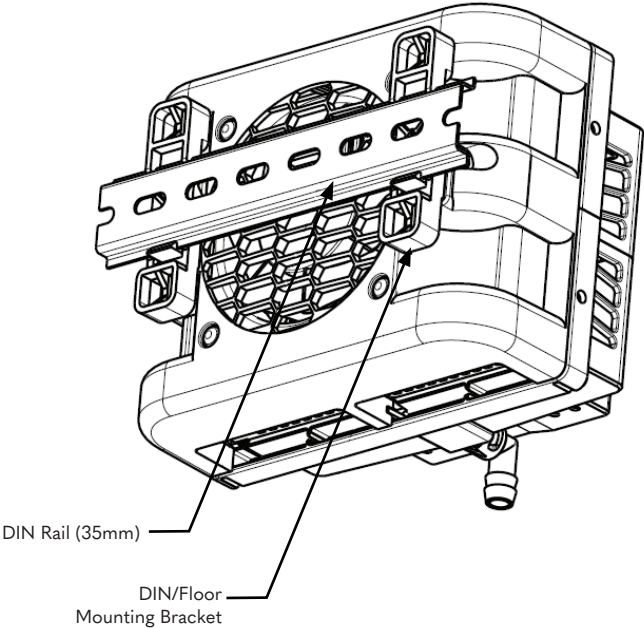


## Installation

The product must be mounted to the wall of the enclosure using the provided (x4) 5x18 mm self-tapping screws for plastic:

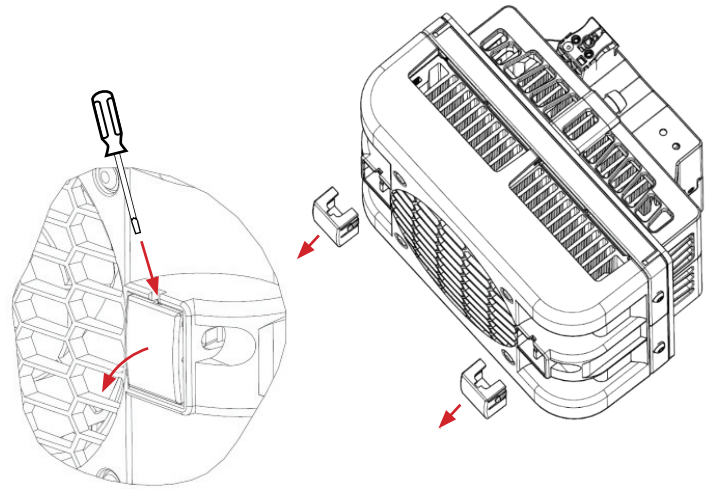
**TIGHTENING TORQUE:** 0.5 to 0.75 Nm  
(4.43 in-lb - 6.64 in-lb)

# Din Rail Mounted Unit Layout and Dimensions



## Din Rail Mount Installation

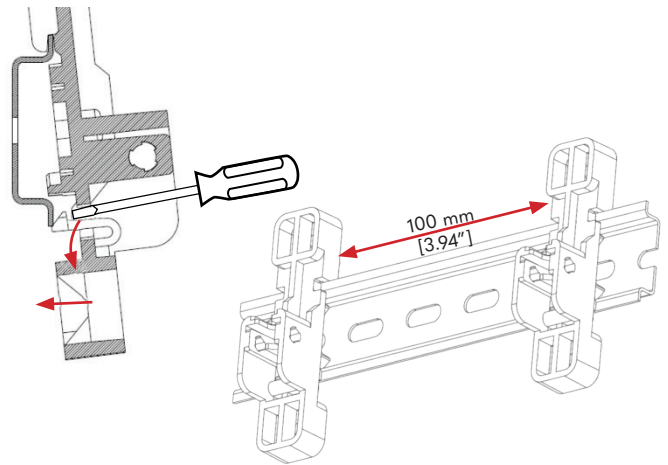
**Step 1:** Remove the 2 blanks using a screwdriver.



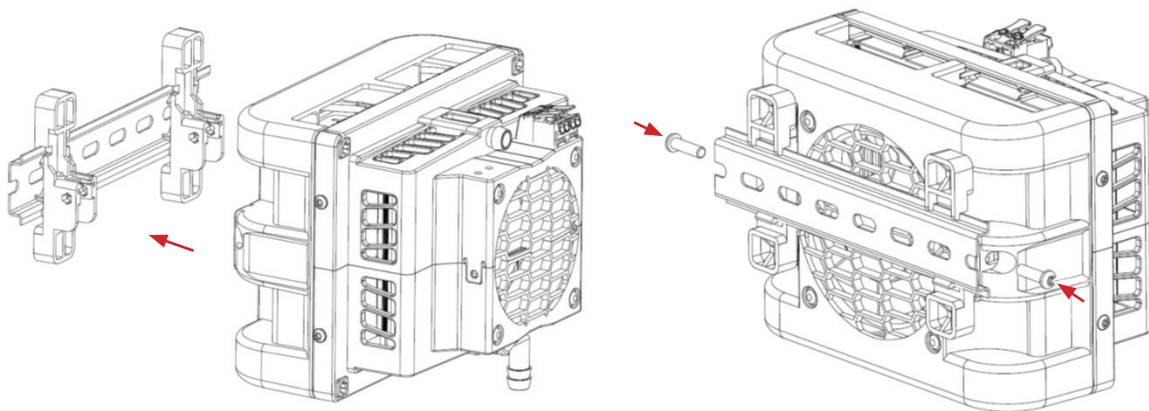
**Step 2:** Mount the brackets to the DIN rail approximately 100 mm apart (3.94").

Mounting can be facilitated by pushing the clip downwards and inwards using a screwdriver.

To remove the bracket from the DIN rail use a screwdriver to push the clip downwards and outwards



**Step 3:** Position the unit inside the brackets and secure each side using the provided (x2) 5x18 mm self-tapping screws for plastic. **TIGHTENING TORQUE:** 0.5 to 0.75 Nm (4.43 in-lb - 6.64 in-lb)

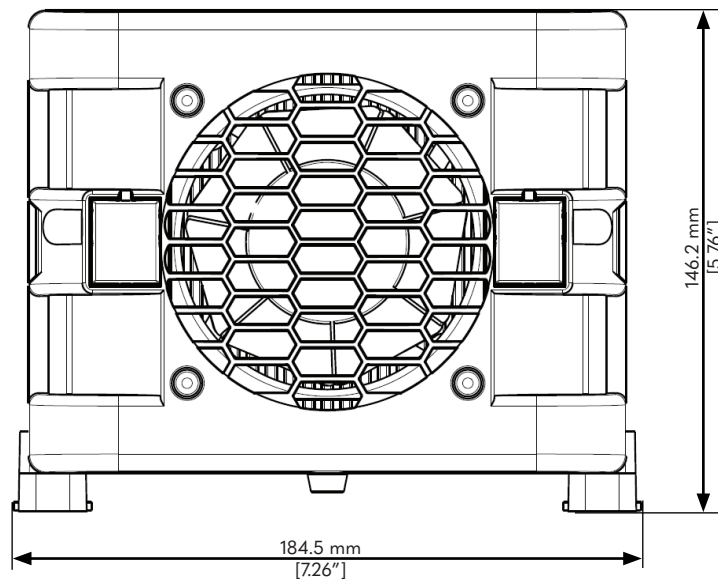
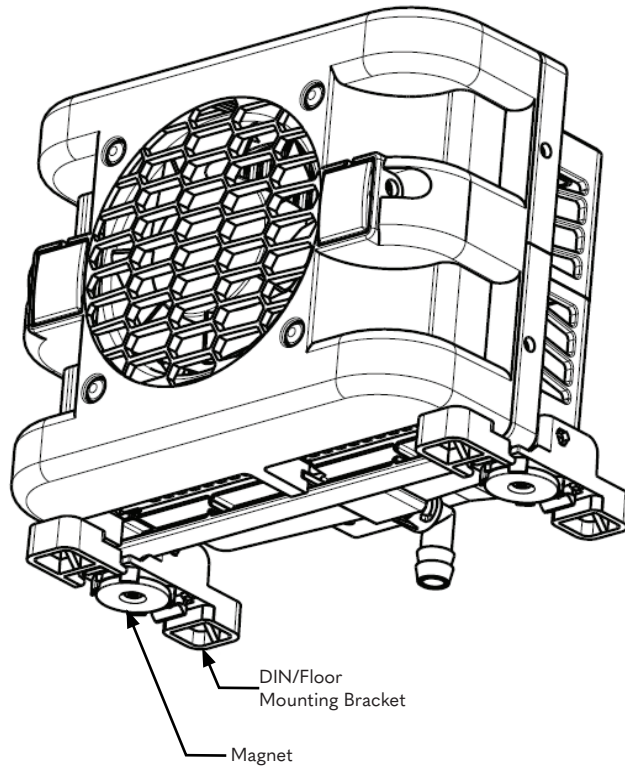


## Removal

**Step 1:** Unscrew the (x2) 5x18 mm screws from each side and remove the unit from the brackets.

**Step 2:** Remove the brackets from the DIN rail by pressing with a screwdriver as shown in Step 2.

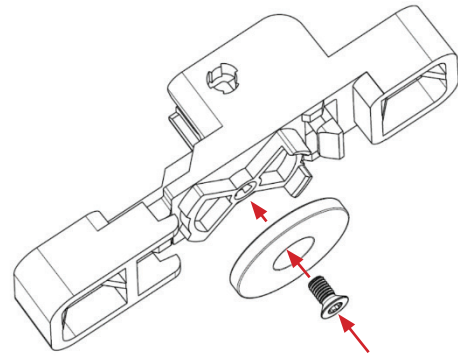
# Floor Mounted Unit Layout and Dimensions



## Floor Mount Installation

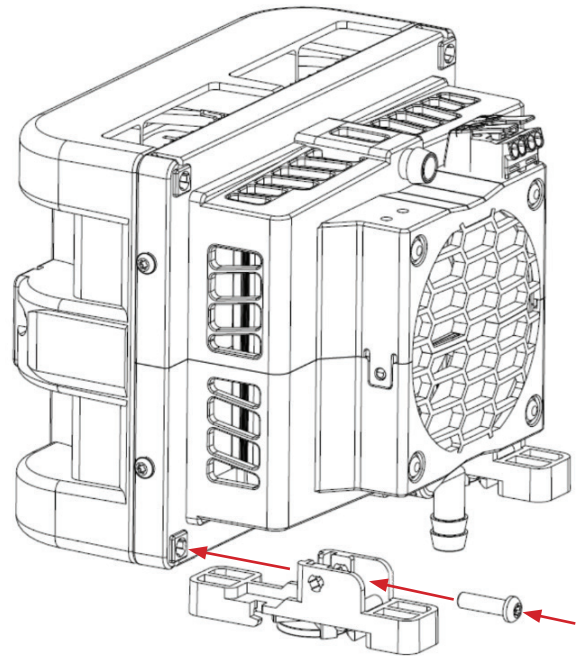
**Step 1:** Fix the magnets to the brackets using the provided (x2) 3x6 mm self-tapping countersink screws for plastic.

**TIGHTENING TORQUE:** 0.1 to 0.2 Nm  
(.89 in-lb - 1.77 in-lb)



**Step 2:** Fix the brackets to the unit using the provided (x2) 5x18 mm self-tapping screws for plastic.

**TIGHTENING TORQUE:** 0.5 to 0.75 Nm  
(4.43 in-lb - 6.64 in-lb)



## Mounting Instructions

Read this instruction sheet before installing the unit.

Only specialized personnel are allowed to install, maintain and clean the unit.

Such personnel must ensure that for the duration of the installation, maintenance and cleaning the unit is disconnected from the electrical supply.

## Electrical Connection

Check the serial label before making any connections to the power supply to ensure that current and voltage ratings are met.