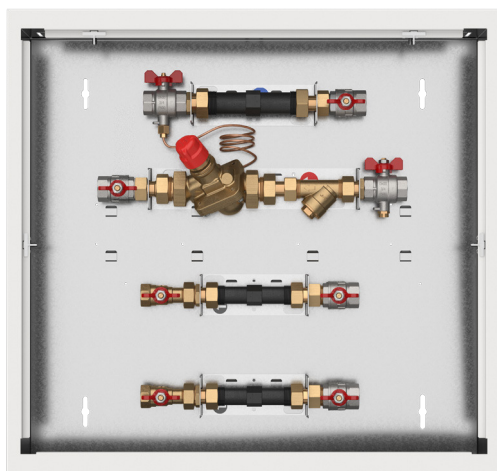


## Installation Guide

# Modular Metering Unit / Metering Unit PM-PV-BD

## Description



Danfoss Metering Unit is a heating and cooling unit, which can be used for metering, balancing, and controlling of individual apartments in centralized heating and domestic hot water systems. The modular version consists of different articles that are fully compatible and can be easily mounted to all pipe directions. In PV-PM-BD sets are already pre-assembled.

## Installation

### Authorized personnel only

*Assembly, start-up and maintenance work must be performed by qualified and authorized personnel only.*

1. Connections between sets and cabinet are made by placing the sets on the vertical or horizontal hooks. Connection can be tightened by using self-tapping screws included in the package. Example of the assembly can be seen in the picture above. If you have the pre-assembled variant (Metering unit PM-PV-BD), this stage can be ignored.
2. Connection to the household installation and district heating pipes connections must be made using threaded, flanged or welded connections. Due to vibrations during transport all connections must be checked and tightened before water is added to the system.
3. At the end of the washing, clean the strainer.
4. When the system has been washed, you can replace the plastic spacer with the thermal energy meter or water meter (Centre distance 130 mm or 110 mm)
5. After making the installations, test the pressurized system according to the requirements of regional/national standards. After water has been added to the system and the system has been put into operation, re-tighten ALL connections.

### General instructions:

- In case TWA is mounted to the AB-PM-set, AB-PM valve should be rotated to 45° angle to avoid collision
- Strainer body should be rotated so that the strainer faces down
- Please remove the energy meter / water meter plastic placer before permanent use

## Maintenance

The metering unit requires little monitoring, apart from routine checks. It is recommended to read the energy meter at regular intervals, and to write down the meter readings.

Regular inspections of the metering unit according to this Instruction are recommended, which should include:

1. Cleaning of strainers.
2. Checking of all operating parameters such as meter readings.
3. Checking of all temperatures, such as HS supply temperature and PWH temperature.
4. Checking all connections for leakages.
5. The operation of the safety valves should be checked by turning the valve head in the indicated direction
6. Checking that the system is thoroughly vented.

Inspections should be carried out minimum every two years.

Spare parts can be ordered from Danfoss.

### Data sheet for Modular Metering Unit



### Data sheet for Metering Unit PM-PV-BD



## Danfoss A/S

Climate Solutions • danfoss.com • +45 7488 2222

Any information, including, but not limited to information on selection of product, its application or use, product design, weight, dimensions, capacity or any other technical data in product manuals, catalogues descriptions, advertisements, etc. and whether made available in writing, orally, electronically, online or via download, shall be considered informative, and is only binding if and to the extent, explicit reference is made in a quotation or order confirmation. Danfoss cannot accept any responsibility for possible errors in catalogues, brochures, videos and other material. Danfoss reserves the right to alter its products without notice. This also applies to products ordered but not delivered provided that such alterations can be made without changes to form, fit or function of the product. All trademarks in this material are property of Danfoss A/S or Danfoss group companies. Danfoss and the Danfoss logo are trademarks of Danfoss A/S. All rights reserved.