

Installation Guide

Heat Cartridge Kit ICAD 600 / ICAD 900 for ICM

027R9788

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Technical data

Danfoss recommends the installation of the Heat Cartridge Kit ICAD 600 / ICAD 900 on ICM motor operated valves in the following applications:

When the media temperature through the ICM valve is lower than -30°C (-22°F).

When the ICM valve is installed outdoor and the media temperature through the ICM valve is lower than -10°C (14°F).

When the ICM is installed indoor, with relative humidity higher than 90%, and when the media temperature through the ICM valve is lower than -10°C (14°F).

Voltage

24 V d.c / 24 V a.c

Load

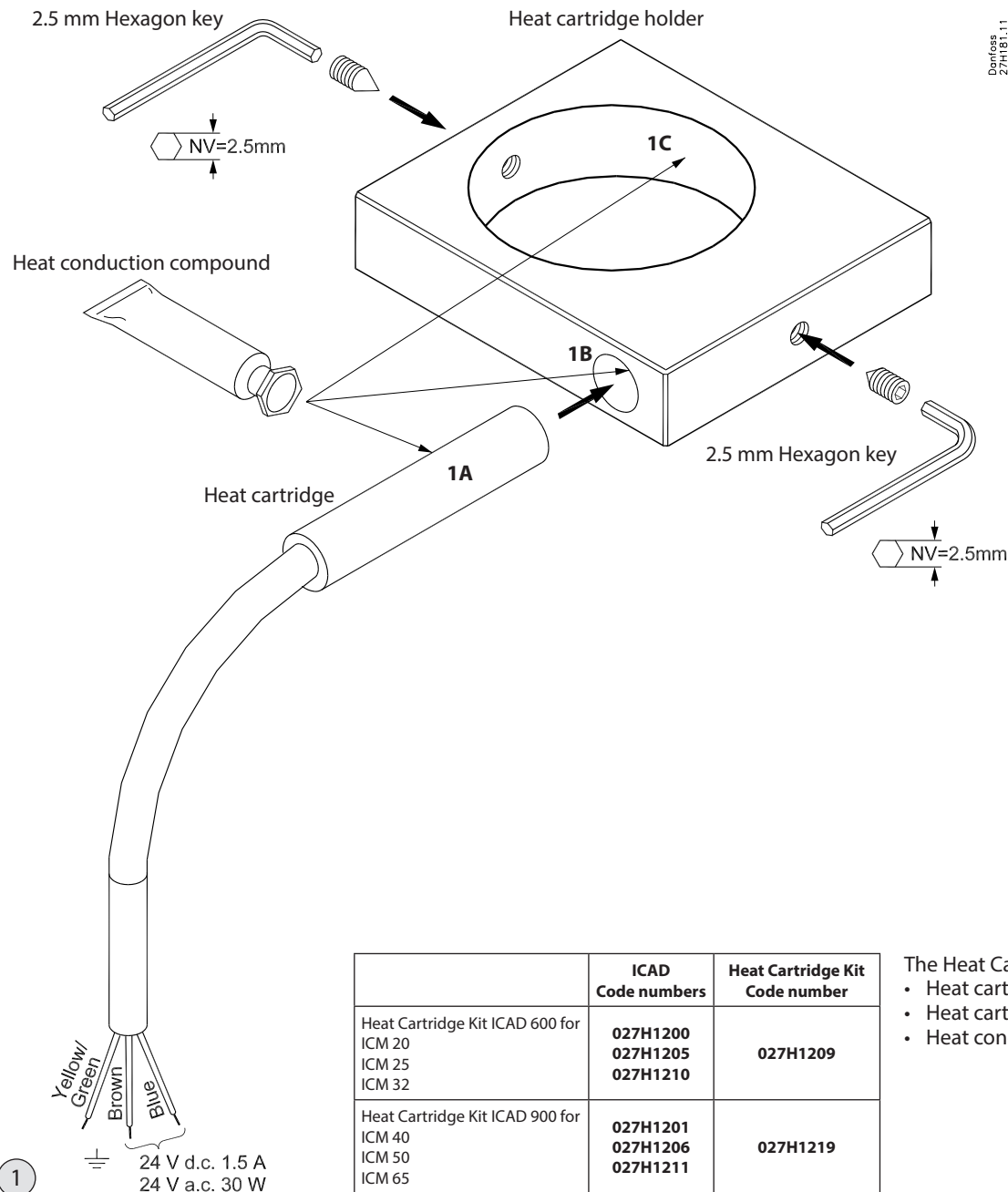
1.5 A / 30 W

Cable

The Heat Cartridge is delivered with 1 m (39 in.) cable.

$3 \times 0.5 \text{ mm}^2$ ($3 \times \sim 20 \text{ AWG}$).

- Brown and Blue: 24 V d.c (polarity unimportant), 24 V a.c
- Yellow/Green: Ground/Earth



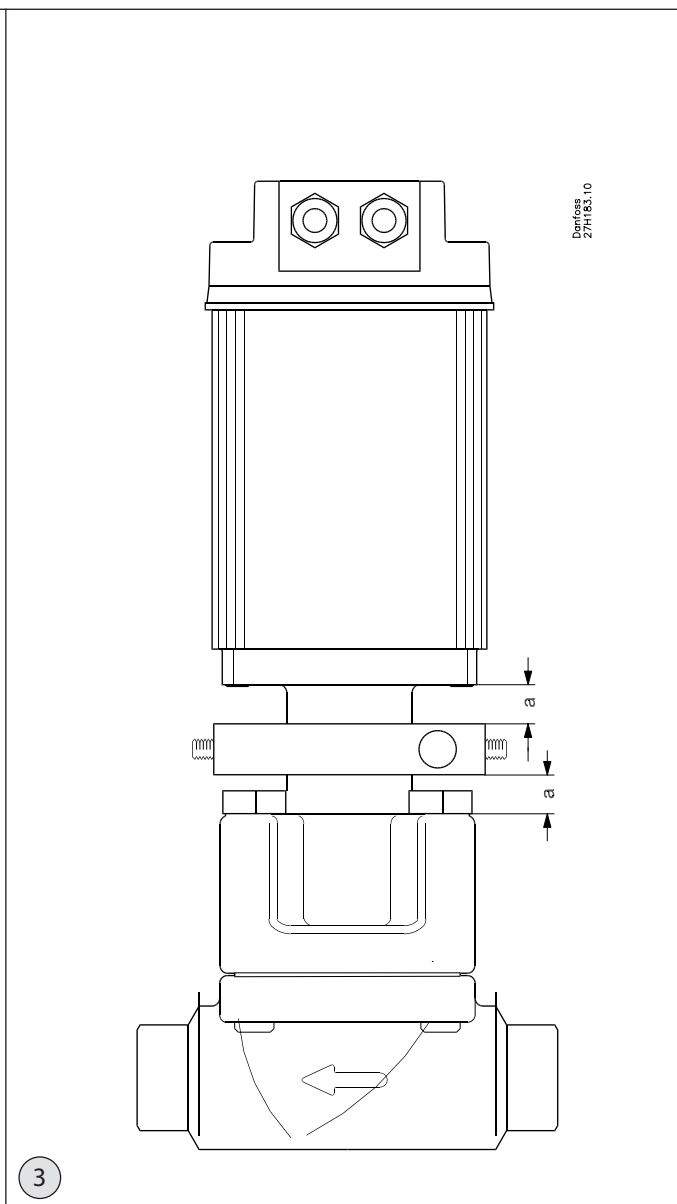
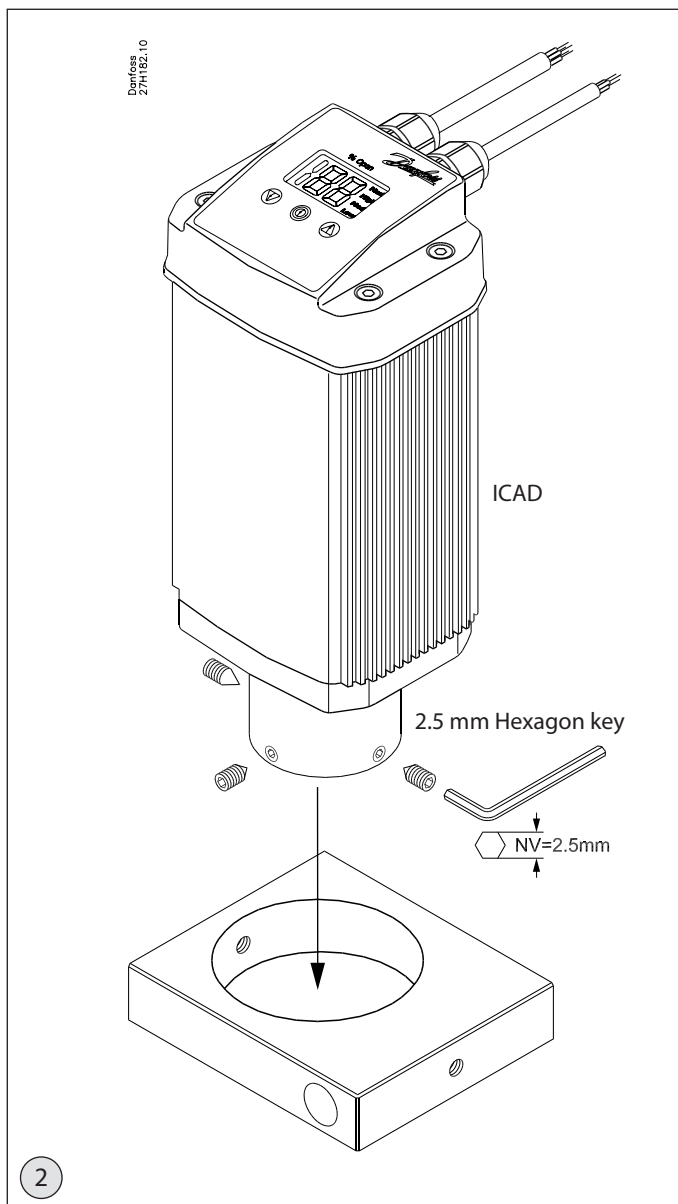
	ICAD Code numbers	Heat Cartridge Kit Code number
Heat Cartridge Kit ICAD 600 for ICM 20 ICM 25 ICM 32	027H1200 027H1205 027H1210	027H1209
Heat Cartridge Kit ICAD 900 for ICM 40 ICM 50 ICM 65	027H1201 027H1206 027H1211	027H1219

The Heat Cartridge Kit contains:

- Heat cartridge
- Heat cartridge holder
- Heat conduction compound

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24 V d.c. 1.5 A
24 V a.c. 30 W



Installation

Mechanical installation

General procedure for installing the Heat Cartridge Kit ICAD 600 / ICAD 900 on all sizes of ICM valves:

Please Note:

The Heat Cartridge Kit ICAD 600 / ICAD 900 must be installed before the ICAD 600/900 actuator is mounted on the ICM valve.

- Check that the three socket set screws on the ICAD actuator are counter clockwise fully unscrewed and removed with a 2.5 mm Hexagon key (see fig. 2).
- Check that the two socket set screws on the heat cartridge holder are counter clockwise fully unscrewed with a 2.5 mm Hexagon key (see fig. 1).
- Apply heat conductive compound to:
 - the heat cartridge (marked 1A in fig. 1)
 - into both ends of the holes for heat cartridge, on the heat cartridge holder (marked 1B in fig. 1)
 - on the inner surface of the heat cartridge holder (marked 1C in fig. 1)

- Insert the heat cartridge into the smallest hole of the heat cartridge holder (see fig. 1).
- Fasten the heat cartridge with the socket set screw using a 2.5 mm Hexagon key.
- Insert the ICAD into the hole of the heat cartridge holder. (fig. 2)
- Install the heat cartridge holder on the ICAD actuator. Position the heat cartridge holder in a center position as shown in fig. 3
- Fasten the heat cartridge holder using a 2.5 mm Hexagon key.
- Reinstall the three socket set screws on the ICAD actuator.
- Please consult the ICAD instruction (DKRCI.PI.HV0.A) regarding the mounting of ICAD actuators on ICM motor operated valves.

Electrical installation

Please Note:

Do not connect supply voltage before the heat cartridge is inserted into the hole of the the heat cartridge holder - then connect 24 V d.c/a.c