Danfoss RAS-C2 Radiator Thermostat Combi Pack Instructions

Contents

Danfoss RAS-C2 Radiator Thermostat Combi Pack

Specifications

- Product Name: Radiator Thermostat RAS-C2 Combi Pack / Radiator Pack
- Valve Type: Bi-Directional Straight Valve with Flow-Selectable Feature
- Maximum Pressure Drop: 0.45 bar
- Key Components: Sensor 013G6040, Valve 013G6285 (15 mm) or Valve 013G6286 (8/10 mm)

Product Usage Instructions

Installation of Valve
The valve is a bi-directional valve and can be installed horizontally or vertically in either the flow or return pipe. Use a flat faced adjustable spanner and a soft cloth to protect chrome surfaces during installation.

Troubleshooting

1. Close all radiator valves by turning the valve cover cap clockwise and let the system cool.
2. Start the boiler/heating system.
3. Determine flow direction through each valve and adjust using the setting ring if needed.
4. Repeat the process for all valves until set correctly.

Fitting the Sensor

1. Remove the cap from the valve and position the sensor accordingly.
2. Secure the sensor onto the valve by turning the union nut clockwise by hand.
3. Set the desired room temperature by turning the head of the sensor.

Removing the Sensor
To remove the sensor, turn the union nut anti-clockwise to release the locking mechanism, allowing separation from the valve.

Do’s and Don’ts

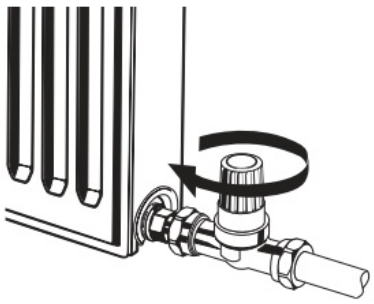
- Do not cover the thermostat as it needs to sense the room temperature accurately.
- Use the positive SHUT-OFF feature for complete water flow control when needed.

Radiator Thermostat RAS-C2 Combi Pack / Radiator Pack
BI-DIRECTIONAL STRAIGHT VALVE WITH FLOW-SELECTABLE FEATURE

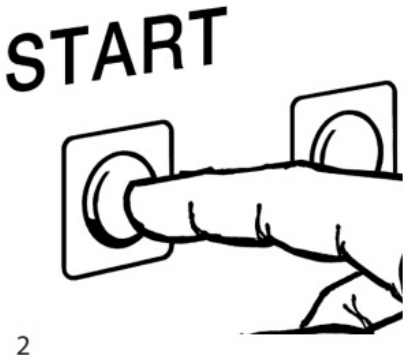
INSTRUCTION

Installation of valve

- The valve is a bi-directional valve * and can be installed horizontally or vertically in either the flow or return pipe.
- A built in flow direction selection feature can be used to eliminate the risk of water hammer. We recommend using a at faced adjustable spanner and a soft cloth to protect the chrome surfaces when tightening up the connections.



1



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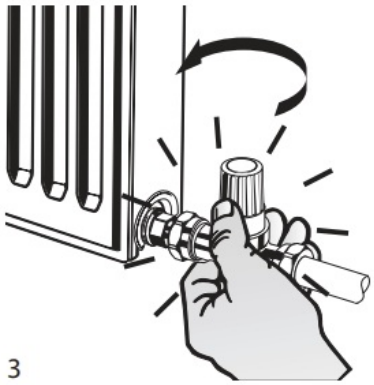
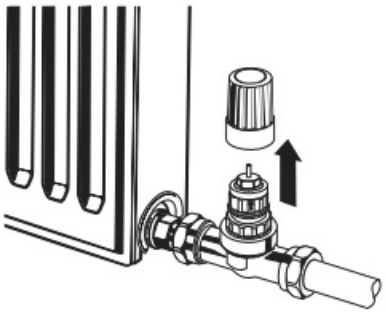
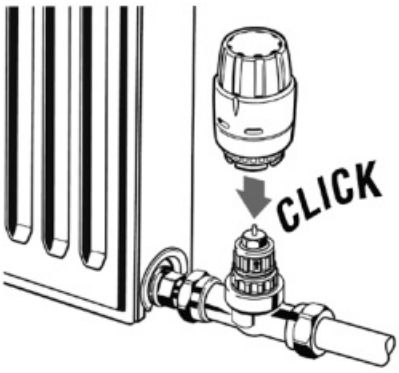


3

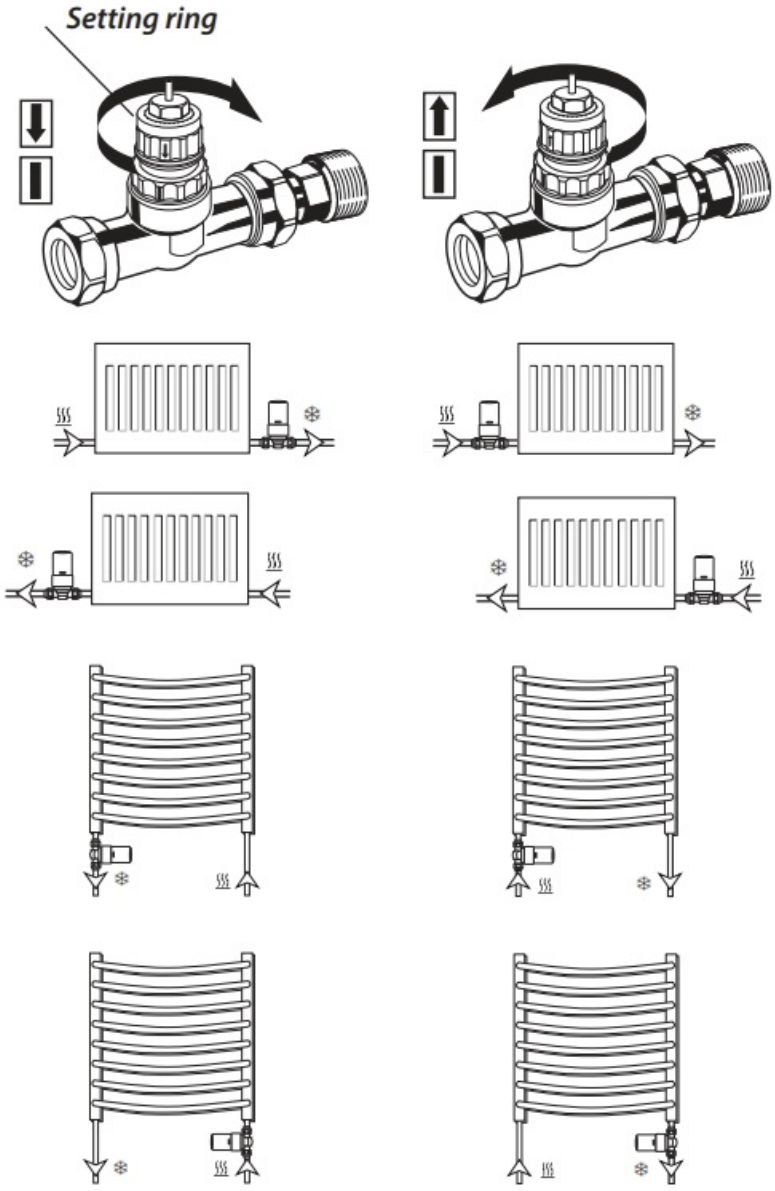
1. Close all radiator valves by turning the valve cover cap clockwise. Leave system to cool.
2. Start boiler/heating.
3. Open one valve and determine flow direction. Which pipe heats first?
4. Remove cap and turn setting ring according to the drawings – the setting ring is turned by hand only.



5. Repeat step 3 and 4 until all valves have been set correctly. Sensor may now be fitted or the valve cap temporarily refitted. Keymark reference: This package contains sensor 013G6040, valve 013G6285 (15 mm) or valve 013G6286 (8/10 mm)



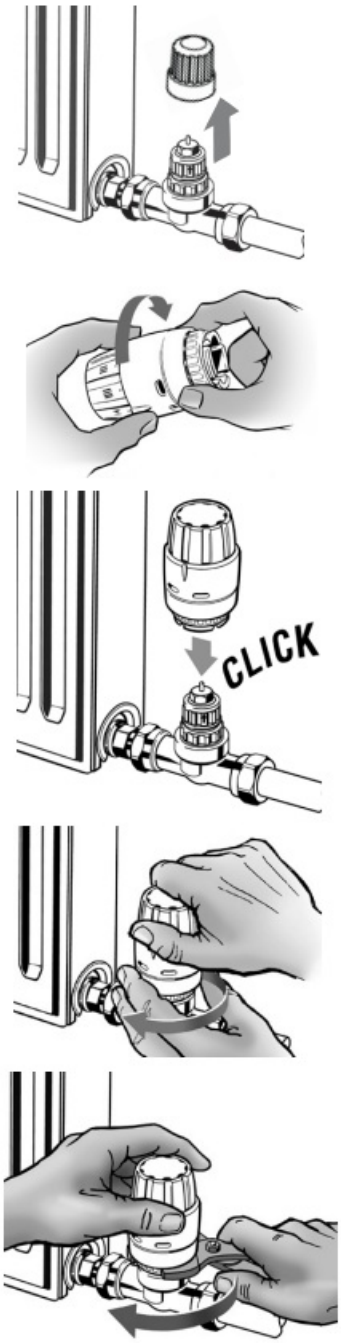
6. Maximum pressure drop should not exceed 0.45 bar



Troubleshooting
In the unlikely event of water hammer being encountered turn the setting ring (see diagram 4) to the other setting. Alternatively if commissioning the whole system, establish the ow direction through each valve using the diagrams below. If the flow direction needs to be changed there is no need to remove the valve, simply turn the setting ring.

Fitting the Sensor

1. Remove the cap from valve and turn sensor to
2. Make sure union nut is turned loosely up towards the sensor body until it is only slightly free of the lower part of the sensor body.
3. Press the sensor firmly onto the valve.
    - Sensor horizontal: ensuring that the scale pointer is at top.
    - Sensor vertical: ensuring that the scale pointer is at the front.
4. Whilst holding the sensor firmly on the valve secure connection by turning union nut clockwise by hand.
5. Whilst still holding the sensor firmly on the valve fully tighten grey union nut using parrot nose pliers.
6. Set desired room temperature.

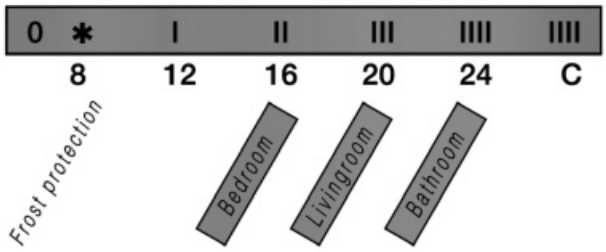


Removing the Sensor

- Turn union nut anti-clockwise to release locking mechanism (5).
- The sensor can now be separated from the valve.

User Guide

Setting the desired room temperatures
The desired room temperature is set by turning the head. The temperatures obtained are approximately:

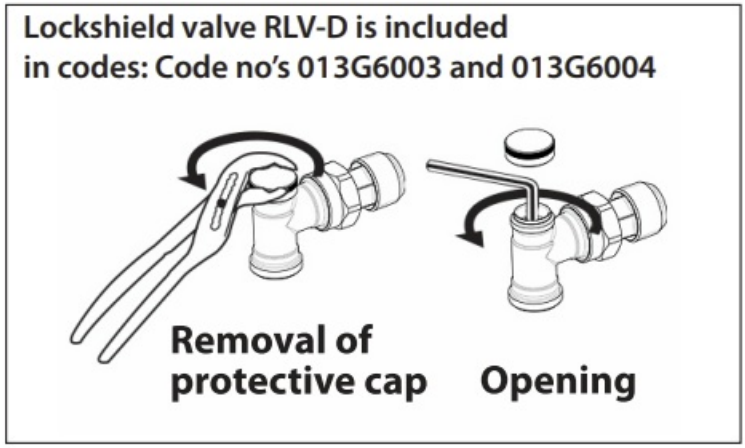


- Do not cover the thermostat
- The thermostat opens and closes as determined by the temperature around it. Therefore the sensor must never be hidden behind thick curtains, furniture, etc. Alternatively a thermostat with remote sensor should be used.

Positive SHUT-OFF feature:

- The head can be turned past the ✱ setting (a slight resistance will be felt) to setting “0,” at which point the water flow is shut off completely. After also shutting the lockshield valve, the radiator may be drained and removed for maintenance and decoration purposes.

Lockshield valve RLV-D is included in codes: Code no’s. 013G6003 and 013G6004



What is a thermostatic radiator valve (TRV)?

- An explanation for householders.
- TRVs sense the air temperature around them and regulate the flow of water through the radiator to which they are fitted to. They do not control the boiler.
- They should be set at a level that gives you the room temperature you want. These settings may have to be different in each room, and you should set the TRVs to suit each room and then leave them to do their job.
- Turning a TRV to a higher setting will not make the room heat up any faster. How quickly the room heats up

depends on the boiler size and setting, and the radiator size. Turning a TRV to a lower setting will result in the room being controlled at a lower temperature, and saves energy.

- TRVs need a free flow of air to sense the temperature, so they must not be covered by curtains or blocked by furniture. TRVs cannot turn off the boiler when the whole house is warm. To do that, you will need a room thermostat as well. The radiator in the room with the room thermostat should not normally have a TRV, but, if it does, keep the TRV on the maximum setting and adjust the room thermostat as explained with the instructions.
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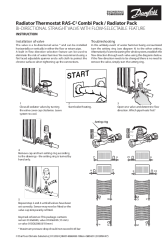
FAQS

What is a thermostatic radiator valve (TRV)?
A thermostatic radiator valve (TRV) is a device used to control the temperature of individual radiators in a heating system. It regulates the flow of hot water into the radiator based on the room temperature, helping to maintain a comfortable environment while saving energy.

Documents / Resources

	Danfoss RAS-C2 Radiator Thermostat Combi Pack [pdf] Instructions 013G6285, 013G6286, RAS-C2 Radiator Thermostat Combi Pack, RAS-C2, Radiator Thermost at Combi Pack, Thermostat Combi Pack, Combi Pack

References

- User Manual