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## Danfoss 013G2960

# Danfoss Thermostatic Head RA/VL2960 User Manual

Model: 013G2960

## PRODUCT OVERVIEW

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The Danfoss Thermostatic Head Type RA/VL2960 is a renovation head designed for use with RA/V 34 mm valve bodies. It provides manual temperature control for heating systems, featuring a frost protection function and the ability to limit or lock temperature settings. This product is a direct replacement for older Danfoss RA/V thermostatic heads produced before 1986, ensuring compatibility and ease of upgrade for existing installations.

The package includes one Danfoss thermostatic head Type RA/VL2960.



Figure 1: Front view of the Danfoss Thermostatic Head RA/VL2960, showing the white body with numbered temperature settings and the Danfoss logo.

## SETUP AND INSTALLATION

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The Danfoss RA/VL2960 thermostatic head is designed for straightforward installation on compatible RA/V valve bodies with a 34 mm neck inner diameter. No special tools are typically required beyond a flat-head screwdriver for the clamping ring connection.

### Installation Steps:

1. **Preparation:** Ensure the heating system is depressurized if replacing an old valve or if there is any risk of water leakage. For head replacement only, this may not be necessary, but always exercise caution.
2. **Remove Old Head (if applicable):** If replacing an existing thermostatic head, loosen the clamping ring or connection

mechanism that secures it to the valve body. Carefully remove the old head.

3. **Set New Head:** Before mounting, set the new Danfoss RA/VL2960 thermostatic head to its highest setting (typically '5' or 'MAX') to ensure the valve pin is fully retracted. This facilitates easier installation.
4. **Position and Attach:** Place the new thermostatic head onto the valve body, aligning it correctly. The head is designed to fit securely over the valve's neck.
5. **Secure Connection:** Tighten the clamping ring connection firmly using a flat-head screwdriver. Ensure the head is securely fastened and does not wobble. Do not overtighten.
6. **Verify Operation:** Once installed, turn the thermostatic head through its settings to confirm smooth operation and proper engagement with the valve pin.

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Figure 2: Compatibility diagram illustrating how the new Danfoss RA/V head replaces older thermostatic heads produced before 1986, highlighting the 34mm valve diameter.

## OPERATING INSTRUCTIONS

The Danfoss RA/VL2960 thermostatic head allows for manual control of room temperature by regulating the flow of hot water through the radiator. The head features numbered settings, typically from '\*' (frost protection) to '5' (maximum heat).

## Temperature Control:

- **Adjusting Temperature:** Rotate the head to the desired setting. Higher numbers correspond to higher room temperatures.
- **Frost Protection (\*):** Setting the head to the '\*' symbol activates the frost protection function. This setting ensures the room temperature does not fall below approximately 6-8°C (43-46°F), preventing pipes from freezing.
- **Limiting/Locking Settings:** The head may have mechanisms to limit the maximum or minimum temperature settings, or to lock it at a specific setting. Refer to the markings on the head for specific instructions on how to engage these features, if present. This is useful for preventing accidental changes or maintaining a consistent temperature.



Figure 3: Close-up of the thermostatic head showing the numbered dial for temperature adjustment and the Danfoss branding.



Figure 4: The Danfoss thermostatic head installed on a radiator, demonstrating its integration into a home heating system.

## MAINTENANCE

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The Danfoss RA/VL2960 thermostatic head requires minimal maintenance to ensure optimal performance and longevity.

- **Cleaning:** Periodically wipe the exterior of the thermostatic head with a soft, damp cloth. Avoid using abrasive cleaners or solvents, as these can damage the finish.
- **Seasonal Check:** Before the heating season begins, it is advisable to turn the thermostatic head through its full range of settings a few times. This helps to prevent the valve pin from sticking due to prolonged inactivity.
- **Air Circulation:** Ensure that the thermostatic head is not obstructed by curtains, furniture, or other objects, as this can interfere with its ability to accurately sense room temperature and regulate heat.

## TROUBLESHOOTING

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If you experience issues with your Danfoss RA/VL2960 thermostatic head, consider the following common solutions:

Problem	Possible Cause	Solution
Radiator remains cold or only partially heats up.	<ul style="list-style-type: none"><li>• Thermostatic head set too low.</li><li>• Valve pin stuck in closed position.</li><li>• Air in the radiator.</li><li>• Obstruction around the head.</li></ul>	<ul style="list-style-type: none"><li>• Increase the temperature setting on the head.</li><li>• Remove the head and gently press the valve pin several times to free it. Reinstall the head.</li><li>• Bleed the radiator to release trapped air.</li><li>• Ensure no curtains or furniture are blocking the head.</li></ul>

Problem	Possible Cause	Solution
Room is too hot despite low setting.	<ul style="list-style-type: none"><li>Thermostatic head not sensing room temperature accurately.</li><li>Valve pin stuck in open position.</li></ul>	<ul style="list-style-type: none"><li>Ensure the head is not exposed to direct heat sources (e.g., sunlight, other appliances).</li><li>Remove the head and check if the valve pin is fully extended. If not, gently pull it out. Reinstall the head.</li></ul>
Head feels loose or wobbly.	Clamping ring not sufficiently tightened.	Tighten the clamping ring connection with a flat-head screwdriver.

If these steps do not resolve the issue, it may indicate a problem with the valve body itself or the heating system, and professional assistance may be required.

## SPECIFICATIONS

Brand	Danfoss
Model Name	013G2960
Product Dimensions	2.48"D x 2.13"W x 3.31"H
Controller Type	Ring
Color	White (RAL 9016)
Temperature Control Type	Manual
Included Components	Thermostatic head for RA/VL 2950 body (diameter: 34 mm)
Power Source	Manual
Item Weight	150 Grams (5.3 ounces)
Voltage	230 Volts (Note: This refers to the system voltage, not the head itself which is manual)
Mounting Type	Wall Mount (on radiator valve)
Style	Renovation head 2960 RA/V 34 mm
UPC	793518448210, 791429257891
Manufacturer	Conmetall
Batteries Required?	No







## WARRANTY AND SUPPORT

Specific warranty details for the Danfoss RA/VL2960 thermostatic head are typically provided at the point of purchase or within the product packaging. Please retain your proof of purchase for warranty claims.

For technical support, installation queries, or further assistance, please contact Danfoss customer service or visit the official Danfoss website. You can find contact information on the Danfoss website or through your local distributor.

**Danfoss Official Website:** [www.danfoss.com](http://www.danfoss.com)

## Related Documents - 013G2960

	<p><a href="#">Danfoss EcoTM Smart Thermostat Installation and User Manual</a></p> <p>Comprehensive guide to installing, operating, and troubleshooting the Danfoss EcoTM smart thermostat. Learn about features, app connectivity, and adapter compatibility for efficient home heating control.</p>
	<p><a href="#">Danfoss Eco™ Electronic Thermostatic Radiator Head - Installation and User Manual</a></p> <p>This guide provides comprehensive instructions for installing, setting up, and operating the Danfoss Eco™ Electronic Thermostatic Radiator Head, including technical specifications, app integration, and safety information.</p>
	<p><a href="#">Danfoss RAV &amp; RAVL Adapter 014G0250: Installation and Removal Guide</a></p> <p>Comprehensive guide for installing and removing the Danfoss RAV &amp; RAVL Adapter (model 014G0250). Learn how to connect the adapter to RAV and RAVL valves and how to safely detach your Danfoss Ally™ or Danfoss Eco™ thermostat.</p>
	<p><a href="#">Danfoss EcoTM Smart Thermostatic Radiator Valve Installation and Operation Guide</a></p> <p>Comprehensive guide to installing, operating, and troubleshooting the Danfoss EcoTM smart thermostatic radiator valve, including app integration, scheduling, and technical specifications for efficient home heating.</p>
	<p><a href="#">Danfoss Thermostatic Radiator Valve Identification and Cross Reference Guide</a></p> <p>A guide to identifying various Danfoss thermostatic radiator valve families and understanding their cross-reference compatibility with RA2000 operators, including replacement requirements.</p>
	<p><a href="#">Danfoss EcoTM Electronic Radiator Thermostat Installation and User Guide</a></p> <p>Comprehensive guide to installing and operating the Danfoss EcoTM electronic radiator thermostat. Learn about setup, features, app integration, temperature programming, and technical specifications for efficient home heating control.</p>

