

Danfoss 015G4550

Danfoss Aero RAVL Thermostatic Radiator Valve

Model: 015G4550

INTRODUCTION

This manual provides essential information for the installation, operation, and maintenance of your Danfoss Aero RAVL Thermostatic Radiator Valve, Model 015G4550. This device is designed to regulate room temperature efficiently, contributing to energy savings and enhanced comfort. Please read these instructions carefully before installation and use to ensure proper function and safety.

SAFETY INFORMATION

- Always ensure the heating system is depressurized and cooled before attempting any installation or maintenance.
- Installation should be performed by a qualified professional if you are unsure about any steps.
- Do not attempt to modify the valve or its components. Use only genuine Danfoss parts for replacements.
- Keep packaging materials out of reach of children to prevent suffocation hazards.
- Ensure the valve is not exposed to extreme temperatures outside its operating range (7-28°C).

PRODUCT OVERVIEW

The Danfoss Aero RAVL Thermostatic Radiator Valve is a modern, gas-filled thermostatic head

designed for precise temperature control. It features a fast response time of approximately 10 minutes and offers tactile feedback for every 0.5°C temperature change. The design allows for easy, tool-free mounting and is compatible with Danfoss RAVL type valve housings.

Key Features:

- Gas-filled thermostatic bellow for rapid response.
- Integrated sensor for accurate temperature detection.
- Temperature range: 7°C to 28°C.
- Tactile feedback for precise temperature adjustments.
- Tool-free mounting with audible click confirmation.
- Optimized temperature scale with a 3°C gap between values.

Components:

- Thermostatic Head (Aero RAVL)
- Mounting Ring/Clamp
- Integrated Sensor



Figure 1: Front view of the Danfoss Aero RAVL Thermostatic Radiator Valve. This image displays the main body of the valve head with its temperature setting dial and the red indicator for the current setting.



Figure 2: Side view of the Danfoss Aero RAVL Thermostatic Radiator Valve, highlighting its compatibility with RAVL 26mm connections. The image shows the connection mechanism at the base of the thermostatic head.

INSTALLATION

Proper installation is crucial for the optimal performance of your thermostatic radiator valve. Follow these steps carefully.

Compatibility Check:

The Danfoss Aero RAVL thermostatic head is specifically designed for Danfoss RAVL valve bodies with a 26 mm mounting diameter. Ensure your existing valve body is compatible before proceeding with installation.

Leitfaden zum Austausch alter Danfoss Heizkörperthermostate

ENGINEERING
TOMORROW

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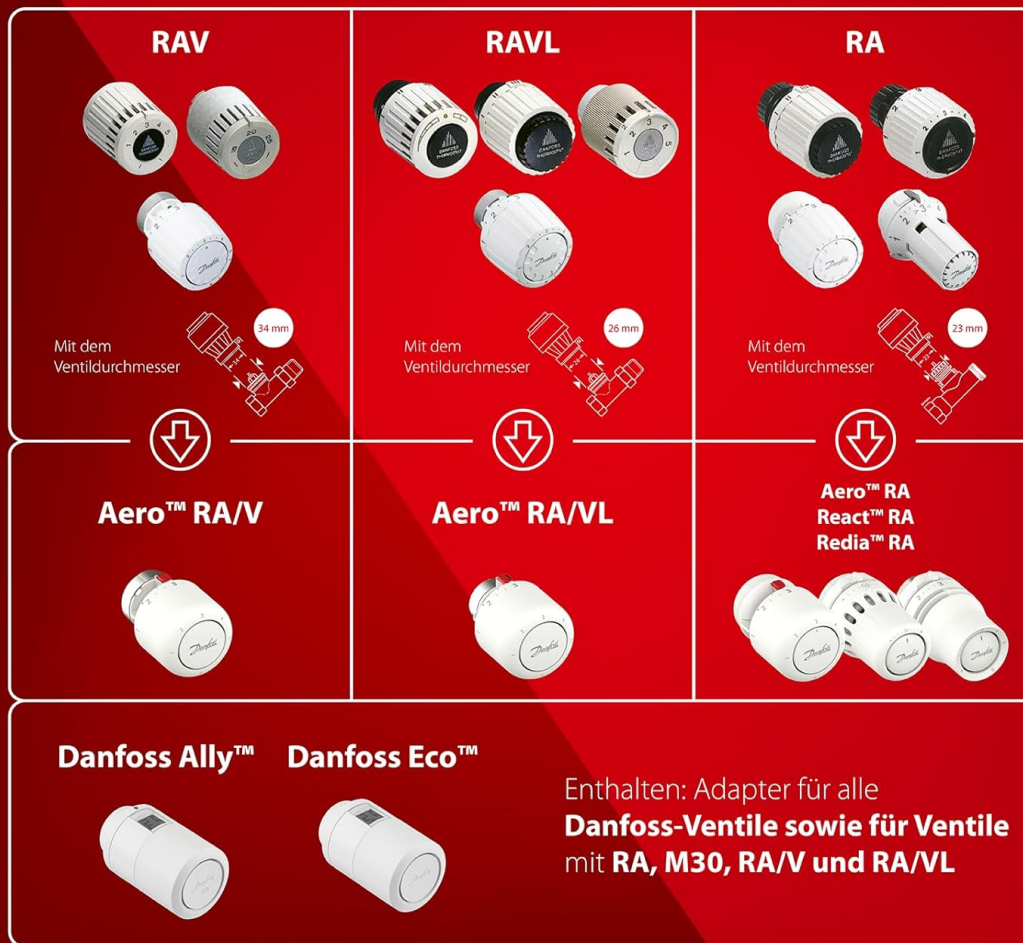


Figure 3: Compatibility guide for replacing old Danfoss radiator thermostats. This chart illustrates that the Aero™ RA/VL head is suitable for RAVL valve bodies with a 26 mm valve diameter.

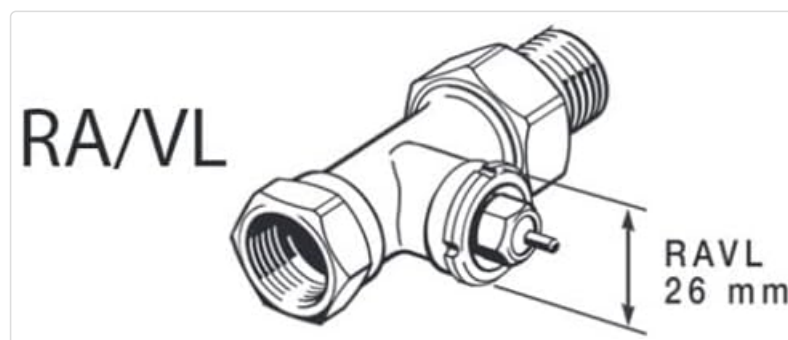


Figure 4: Technical diagram of a Danfoss RAVL valve body, indicating the 26 mm diameter for proper head attachment. This diagram helps identify the correct valve type.

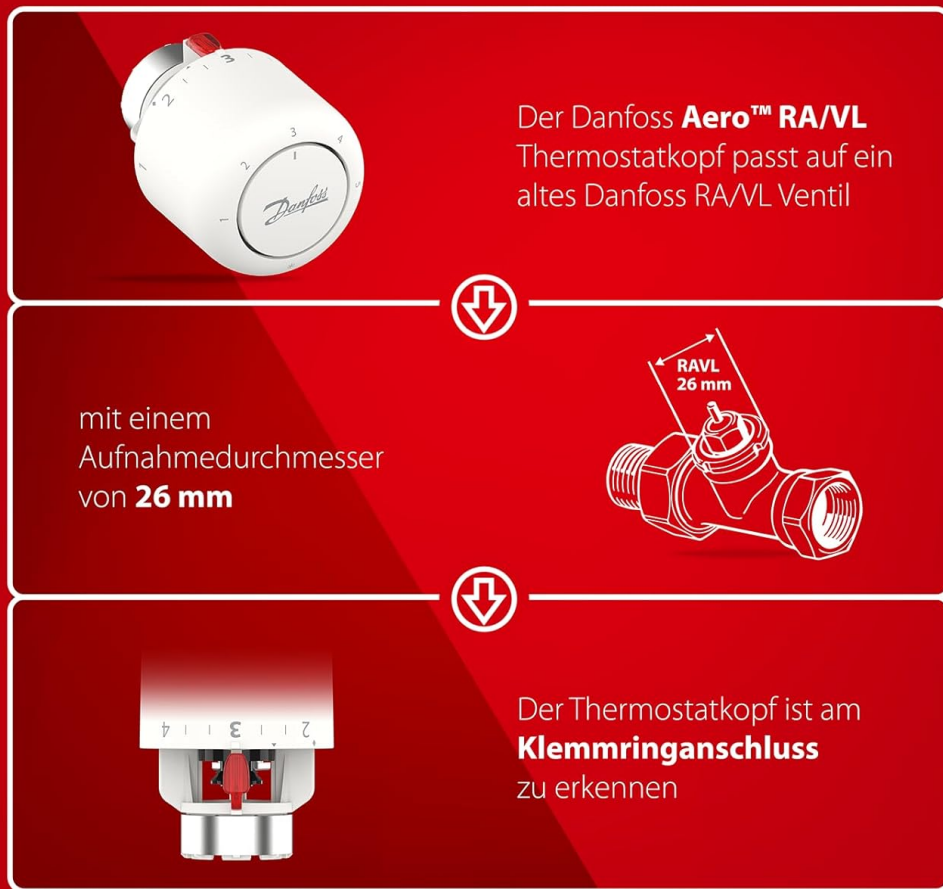


Figure 5: Installation diagram showing the Danfoss Aero™ RA/VL thermostatic head fitting onto an old Danfoss RA/VL valve with a 26 mm mounting diameter. The image highlights the clamp ring connection for identification.

Mounting Instructions:

1. **Prepare the Valve Body:** Ensure the existing RA/VL valve body is clean and free from debris. If replacing an old thermostatic head, remove it carefully.
2. **Set the Thermostatic Head:** Turn the setting dial on the new Aero RA/VL head to its maximum setting (usually '5' or '28°C') to fully retract the pin.
3. **Position the Head:** Place the Aero RA/VL thermostatic head onto the RA/VL valve body. Ensure it is aligned correctly.
4. **Secure the Mounting Ring:** Push the mounting ring firmly onto the valve body until you hear an audible 'click'. This confirms the head is securely attached. No tools are required for this step.
5. **Verify Installation:** Gently try to rotate the head. It should be firmly attached and not wobble.

OPERATING INSTRUCTIONS

The Danfoss Aero RAVL valve allows for manual temperature control to maintain your desired room temperature.

Setting the Temperature:

- The thermostatic head features a numbered dial (typically 1 to 5, or a temperature scale from 7°C to 28°C).
- Rotate the dial to your desired temperature setting. Each click provides tactile feedback, indicating a 0.5°C change in the set point.
- **Setting '*' (Frost Protection):** This setting maintains a minimum temperature (around 7°C) to prevent pipes from freezing.
- **Setting '1' (Approx. 14°C):** A lower comfort temperature.
- **Setting '3' (Approx. 20°C):** A common comfort temperature for living areas.
- **Setting '5' (Approx. 28°C):** Maximum heating.
- The valve will automatically adjust the flow of hot water to the radiator to maintain the selected room temperature.



Figure 6: The Danfoss Aero RAVL thermostatic valve installed on a radiator within a room setting. This illustrates the product's appearance when in use.

MAINTENANCE

The Danfoss Aero RAVL thermostatic valve requires minimal maintenance to ensure long-term performance.

- **Cleaning:** Wipe the exterior of the thermostatic head with a soft, damp cloth. Do not use abrasive cleaners or solvents, as these can damage the surface.

- **Dust Removal:** Periodically remove any dust accumulation from the valve and radiator to ensure proper air circulation around the integrated sensor.
- **Function Check:** Annually, rotate the dial through its full range of settings to ensure smooth operation and prevent internal components from sticking.
- **Avoid Obstruction:** Ensure that curtains, furniture, or other objects do not obstruct the thermostatic head, as this can interfere with accurate temperature sensing.

TROUBLESHOOTING

If you experience issues with your thermostatic radiator valve, consult the table below for common problems and solutions.

Problem	Possible Cause	Solution
Radiator remains cold despite high setting.	Valve pin stuck in closed position; air in the system; system pressure too low.	Remove the thermostatic head and gently press the valve pin several times to free it. Bleed the radiator. Check system pressure and refill if necessary.
Room is too cold/hot, inconsistent temperature.	Thermostatic head obstructed; incorrect setting; external heat sources/drafts.	Ensure the head is not covered by curtains or furniture. Adjust the setting. Eliminate drafts or reposition heat-emitting objects.
Valve head is loose or falls off.	Mounting ring not fully engaged.	Re-attach the thermostatic head, ensuring the mounting ring clicks securely into place.
No tactile feedback when adjusting dial.	Internal mechanism issue.	Contact Danfoss support or a qualified technician for inspection.

SPECIFICATIONS

Feature	Detail
Model Name	Danfoss Aero RAVL
Model Number	015G4550
Product Dimensions	4.33"D x 5.12"W x 10.63"H
Item Weight	0.15 Kilograms (5.3 ounces)


Feature	Detail
Controller Type	Hand Control
Temperature Control Type	Manual
Temperature Range	7°C - 28°C
Response Time	Up to 10 minutes
Control Accuracy	0.2 K
Mounting Type	Direct valve mount (RAVL 26mm)
Material	Plastic
Color	White
Special Feature	Energy efficiency

WARRANTY AND SUPPORT

Danfoss products are manufactured to high-quality standards. For information regarding warranty terms and conditions, please refer to the documentation provided with your purchase or visit the official Danfoss website. For technical support, spare parts, or service inquiries, please contact your local Danfoss representative or authorized dealer. You can find more information and support resources on the [Danfoss Store on Amazon](#).

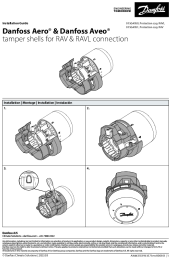




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Related Documents - 015G4550



[Danfoss EcoTM Smart Thermostat Installation and User Manual](#)

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>Danfoss Aero® and Danfoss Aveo® Tamper Shells Installation Guide</p> <p>Installation guide for Danfoss Aero® and Danfoss Aveo® tamper shells, designed for RAV and RAVL valve connections. Includes step-by-step instructions and product details.</p>
	<p>Danfoss Eco™ Smart Thermostatic Radiator Valve Installation and Operation Guide</p> <p>Comprehensive guide to installing, operating, and troubleshooting the Danfoss Eco™ smart thermostatic radiator valve, including app integration, scheduling, and technical specifications for efficient home heating.</p>
	<p>Danfoss Eco™ Electronic Radiator Thermostat Installation and User Guide</p> <p>Comprehensive guide to installing and operating the Danfoss Eco™ electronic radiator thermostat. Learn about setup, features, app integration, temperature programming, and technical specifications for efficient home heating control.</p>
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	<p>Danfoss RAV & RAVL Adapter 014G0250: Installation and Removal Guide</p> <p>Comprehensive guide for installing and removing the Danfoss RAV & 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>