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## EMKE FR1853AD-DR

# EMKE Vertical Radiator Instruction Manual

Model: FR1853AD-DR

## 1. PRODUCT OVERVIEW

This manual provides essential information for the safe and efficient installation, operation, and maintenance of your EMKE Vertical Radiator, Model FR1853AD-DR. This anthracite, double-layer design panel radiator measures 1800x540mm and offers a heat output of 1949W.



Image 1.1: EMKE Vertical Radiator (1800x540mm, Anthracite) installed in a room.

## 2. SAFETY INFORMATION

Please read all safety instructions carefully before installation and operation. Failure to follow these instructions may result in property damage, injury, or death.

- Ensure the radiator is installed by a qualified professional in accordance with local building codes and regulations.
- Do not cover the radiator with clothing or other materials, as this can cause overheating and fire hazards.
- Keep children and pets away from the hot surface of the radiator to prevent burns.
- Before any maintenance or cleaning, ensure the heating system is turned off and the radiator has cooled down.
- The radiator is designed for hot water central heating systems only.

## 3. SETUP AND INSTALLATION

The EMKE vertical radiator is designed for straightforward installation. However, due to its size and weight

(approximately 53 kg), professional assistance is recommended.

### 3.1 Components Included

Verify that all components are present before beginning installation:

## Zubehörteile inbegriffen



## Vierschichtige Verpackung

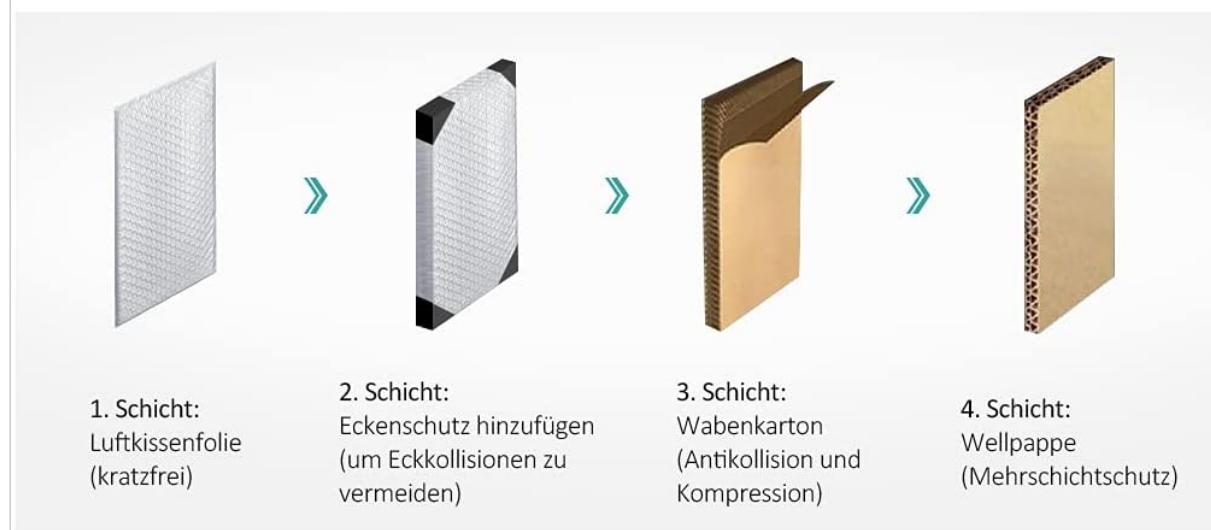


Image 3.1: Included accessories for installation. This includes 4 blind plugs, 8 long screws, 2 rubber rings, and 4 rubber supports.

### 3.2 Connection Methods

The radiator supports two primary connection methods:

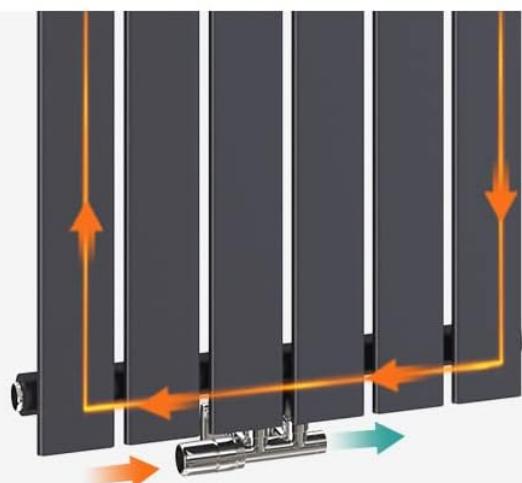
- **Central Connection:** This method allows for the use of either a split valve or a combined valve.
- **Connection at Both Ends:** For this method, a split valve must be used.

The connection thread is G1/2 inch, and the connection size is 50 mm. The wall distance to the center of the inlet pipe is 51 mm.

# Zwei Verbindungsmethoden:

## Mittelanschluss

Kann geteiltes Ventil oder verbundenes Ventil verwenden



## Anschluss an beiden Enden

Bitte geteiltes Ventil verwenden

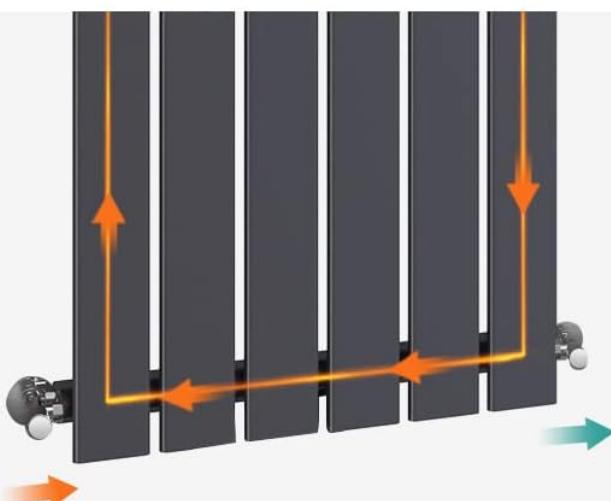


Image 3.2: Illustration of the two available connection methods: central connection and connection at both ends.

### 3.3 Mounting Considerations

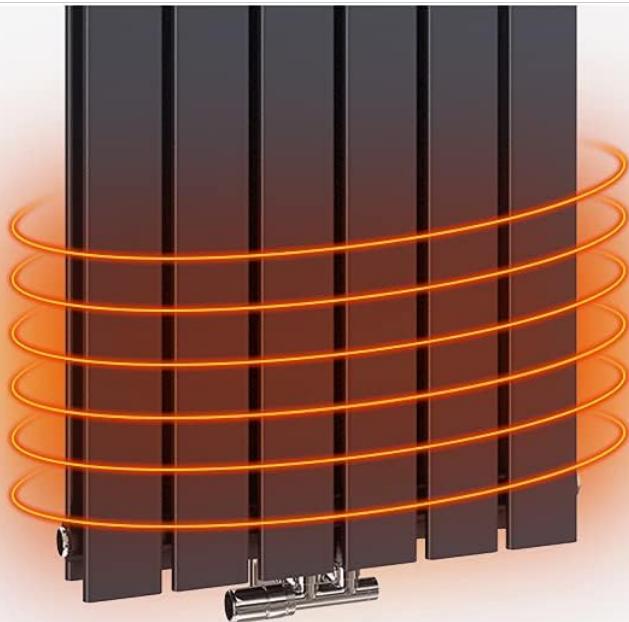
Accurate measurement and marking are crucial for proper installation. While the radiator is designed for easy installation, precise positioning of wall brackets is essential, especially for larger models. It is advisable to measure the column spacing directly from the radiator if a detailed mounting template is not provided.

## 4. OPERATING INSTRUCTIONS

The EMKE radiator is designed for effective heat distribution within your living space.

### 4.1 Heat Output and Efficiency

The radiator utilizes low-carbon steel with excellent thermal conductivity and an intelligent design to ensure efficient and even heat distribution. This design helps maintain a comfortable environment while optimizing heating costs.



Energieart: **Warmwasser**



Höhere Wärmeleitfähigkeit



Anschlussgewinde: **G1 / 2 "**

Anschlussabstand: **50mm**

**(\*Enthält kein Ventil)**



Image 4.1: Illustration of hot water as the energy source and the radiator's high thermal conductivity, along with connection thread (G1/2") and spacing (50mm).

## 4.2 Advanced Technology

The radiator panels are joined using advanced brazing technology, resulting in small, clean weld seams. Overlap welding technology further enhances the strength and durability of the connections, minimizing the risk of leaks.

## Fortgeschrittene Technologie

Der Heizkörper wird durch Hartlöten in einem Stück geschweißt, die Schweißnaht ist sehr klein und schön.

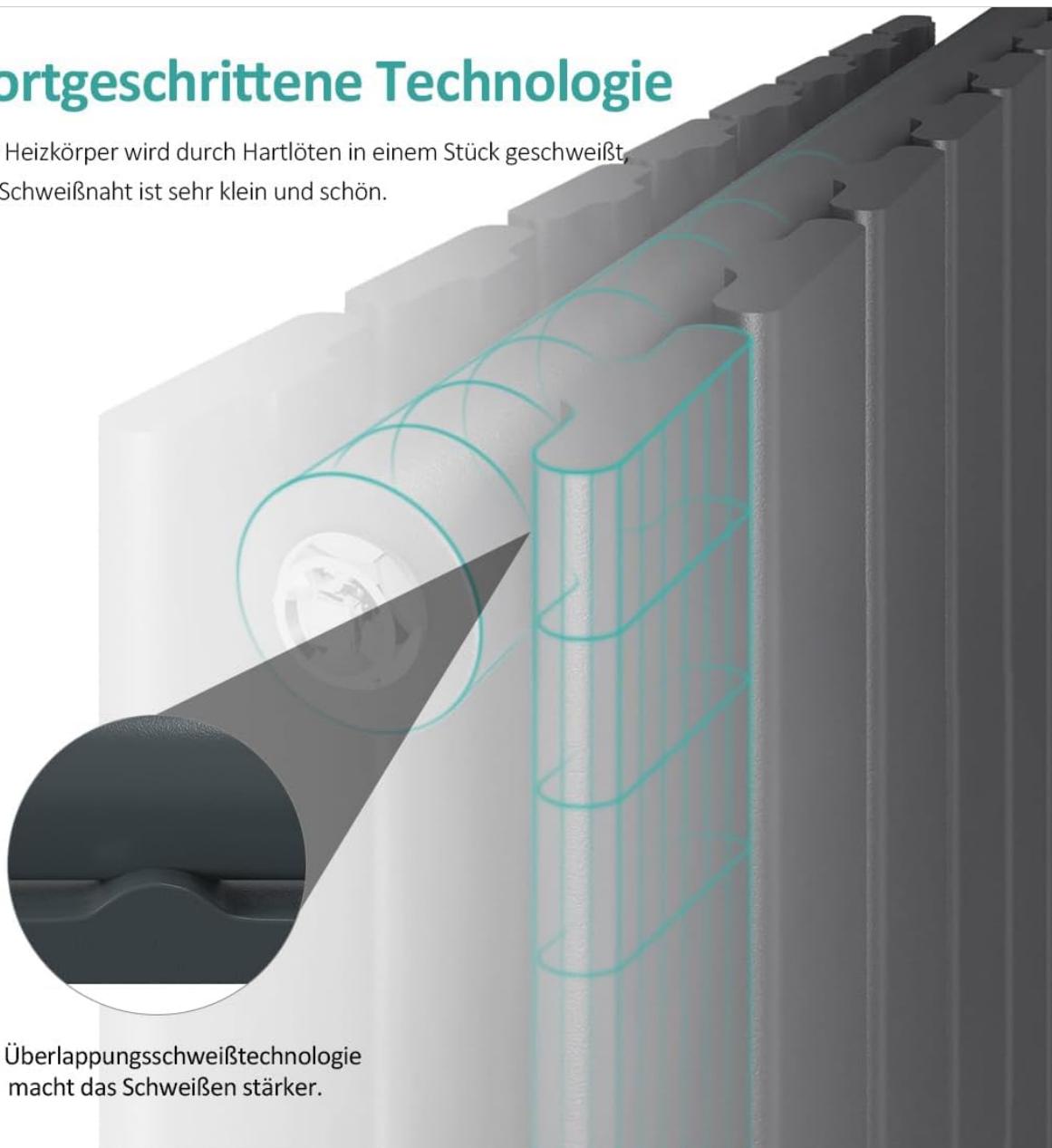


Image 4.2: Detail of the advanced brazing and overlap welding technology used in the radiator's construction.

## 5. MAINTENANCE

Regular maintenance ensures the longevity and optimal performance of your EMKE radiator.

- **Cleaning:** Wipe the radiator surface with a soft, damp cloth. Avoid abrasive cleaners or harsh chemicals that could damage the finish.
- **Inspection:** Periodically check for any signs of leaks, corrosion, or damage. Address any issues promptly.
- **Bleeding:** If you notice cold spots on your radiator or hear gurgling noises, it may need bleeding to release trapped air. Consult your heating system manual or a professional for instructions.

### 5.1 Material Quality

The radiator is constructed from high-quality SPCC low-carbon steel, known for its strength and reduced susceptibility to leaks. It features an internal coating and an environmentally friendly spray coating for enhanced durability and rust resistance.

# Hochwertiges Material

Wir verwenden kohlenstoffarme der Marke SPCC (kaltgewalzter Stahl), um eine höhere Festigkeit und eine geringere Leckrate zu erzielen.



Image 5.1: Cross-section view highlighting the high-quality low-carbon steel, internal coating, and environmentally friendly spray coating.

## 6. TROUBLESHOOTING

If you encounter issues with your radiator, consider the following common troubleshooting steps:

- **No Heat or Insufficient Heat:** Check if the thermostat is set correctly. Ensure the radiator valve is fully open. Bleed the radiator to release trapped air. Verify that the central heating system is operational.
- **Leaks:** Immediately turn off the heating system and isolate the radiator if possible. Contact a qualified plumber for repair.
- **Unusual Noises:** Gurgling often indicates trapped air (bleed the radiator). Clicking or banging might be due to pipe expansion/contraction or water pressure issues; consult a professional.

For persistent problems, contact EMKE customer support or a certified heating technician.

## 7. SPECIFICATIONS

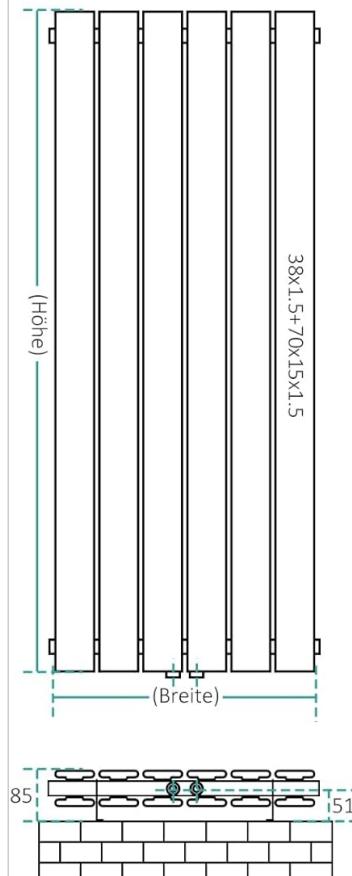
Detailed technical specifications for the EMKE Vertical Radiator, Model FR1853AD-DR.

Specification	Detail
Model Number	FR1853AD-DR
Dimensions (Height x Width)	1800 x 540 mm
Depth	63 mm
Weight	53 kg
Heat Output (at $\Delta T=50$ )	1949 W
Heating Surface Area	19 square meters
Layers	Double-layer
Connection Thread	G1/2 inch
Connection Size	50 mm
Wall Distance to Inlet Pipe Center	51 mm
Material	Low-carbon steel (SPCC)
Compliance	EN442 standards

## Liste der Parameter

Einheit: mm

Höhe	Breite	Anzahl der Röhren	Ausgangsleistung (Watt) $\Delta T=50$	Fläche (m <sup>2</sup> )	Mitte-Maß der Wandhalterung (mm)
600	300	4	233	3	550
900	300	4	403	5	850
1600	300	4	557	7	1550
1600	460	6	850	8	1550
1800	300	4	627	8	1750
1800	460	6	948	9	1750
1600	540	7	991	9	1550
1800	540	7	1107	10	1750
1800	620	8	1265	12	1750
600	300	4x2	327	4	550
900	300	4x2	446	6	850
1600	300	4x2	889	12	1550
1600	460	6x2	1490	14	1550
1800	300	4x2	911	12	1750
1800	460	6x2	1670	15	1750
1600	540	7x2	1739	16	1550
1800	540	7x2	1949	19	1750
1600	620	8x2	1988	19	1550
1800	620	8x2	2227	20	1750



## 8. WARRANTY AND SUPPORT

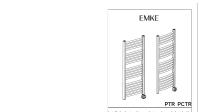
EMKE is committed to providing reliable products and customer satisfaction.

- Return Policy:** A 14-day return policy is offered for your convenience.
- Repair Service:** The product includes a 2-year repair service.
- Customer Satisfaction:** EMKE maintains a high customer satisfaction rate, demonstrating commitment to quality and service.

For any questions, support, or warranty claims, please contact EMKE customer service through the retailer where the product was purchased or visit the official EMKE website.

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### Related Documents - FR1853AD-DR

	<p><a href="#"><b>EMKE ESFTR Electric Radiator Instruction Manual</b></a> Comprehensive instruction manual for the EMKE ESFTR Electric Radiator, covering installation, operation, technical specifications, app connectivity, and safety guidelines.</p>
	<p><a href="#"><b>EMKE PTR PCTR Electric Towel Rail Installation and User Manual</b></a> Comprehensive installation and user guide for the EMKE PTR PCTR electric towel rail. Learn about setup, operation modes, app connectivity, and troubleshooting for your heated towel rail.</p>
	<p><a href="#"><b>G21 Reno Double Door Gate Installation Manual</b></a> Comprehensive installation manual for the G21 Reno double door gate (350x158 cm), detailing tools required, dimensions, parts list, and assembly steps. Available in multiple languages including English, German, Czech, Slovak, Hungarian, Polish, Croatian, and Slovenian.</p>
	<p><a href="#"><b>FreeCAD for Electronics Applications: 3D Modeling Guide</b></a> A practical guide to using FreeCAD for 3D modeling of electronic enclosures and front panels, covering project organization, component placement, and design techniques. Published by Elektor.</p>