



Product Manual: RMF-MF Fan-Coil Flush Mount Touch Screen Thermostat



Figure 1: RMF-MF Thermostat – Front View

1. Product Overview

The RMF-MF is a Flush-mounted touchscreen thermostat specifically designed for 2-pipe and 4-pipe fan coil HVAC systems.

Its sleek design combines a capacitive touch interface with intuitive icons and a digital LED display, ensuring user-friendly control and reliable performance in both residential and commercial settings.

Available in White or Black color.



2. Technical Specifications

Feature	Specification
Power Supply	200-250V AC, 50/60Hz
Power Consumption	1.5 VA
Display	Digital LED with capacitive touch keys
Temperature Range	10°C to 30°C
Temperature Accuracy	±1°C
Differential	1°C
Relay Output Rating	5A @ 250V AC - 1/10 HP
Adjustable Temperature Range	10°C to 30°C
Ambient Operating Conditions	0°C to 60°C
Ambient Storage Conditions	-20°C to +85°C
Relative Humidity	10% to 90% RH (non-condensing)
Wiring Connections	Screw terminals
Dimensions	121 mm (W) x 80 mm (H) x 45 mm (D)
Weight	115g
Ingress Protection Rating	IP30
Certifications	CE, ISO 9001, RoHS
Compliance Standards	EN 60730-1; EMC Directive 89/336 (EN 61000-4-1, EN 55011, EN 55022, EN 55014)
Material	Flame-retardant ABS, UL94 V-5 rated
Color Options	Standard: White (RAL9016); Optional: Black
Packaging	Eco-friendly, recyclable materials
Warranty	24 months
Optional Feature	External return air temperature sensor

3. Terminal Layout and Wiring

The rear housing of the RMF-MF thermostat contains labeled screw terminals for straightforward installation in both 2-pipe and 4-pipe fan coil systems. Ensure all connections are made with the power supply disconnected.

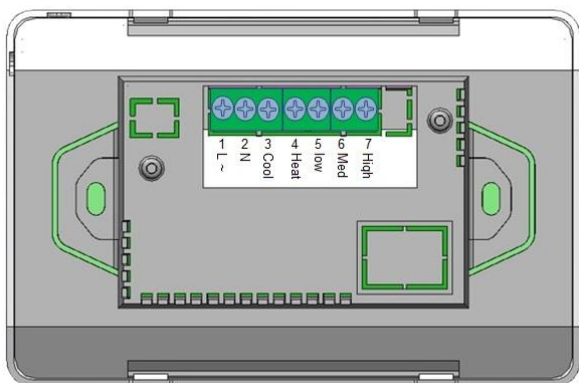


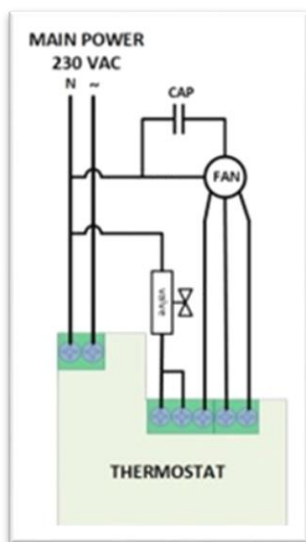
Figure 2: Rear Terminal Block – Electrical Connections

4. Wiring Diagrams

The following wiring diagrams illustrate typical installations for 2-pipe and 4-pipe fan coil units. **Always ensure power is disconnected before installation.**

4.1 2-Pipe System Wiring

Figure 3: 2-Pipe System Wiring Diagram



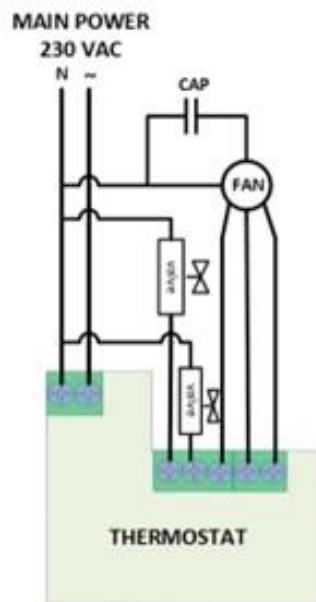
Connections:

- N / ~: Main power input (230V AC)
- FAN: Fan motor connections (Low, Medium, High)
- VALVE: Controls water valve.

Note: An external contactor must be used when operating a heating element.

4.2 4-Pipe System Wiring

Figure 4: 4-Pipe System Wiring Diagram



Connections:

- N / ~: Main power input (230V AC)
- FAN: Fan motor terminals (Low, Medium, High)
- VALVE (x2): Separate control for both cooling and heating water valves.

Note: Ensure each valve is correctly connected to its respective relay output (cooling and heating). An external contactor is still required if a resistive heating element is used.