

WB12 Wiring Centre

Installation Guide

ENGINEERING
TOMORROW

Danfoss

Specification

Terminals: 12 way
Voltage Rating: 230 V 50/60Hz
Current Rating: 10A
Max cable size: 1.5 mm²
Max. Ambient Temperature: 55 °C
Enclosure Rating: IP30
Pollution Control Situation: Normal
Dimensions: 157 mm wide
95 mm high
35 mm deep
Rated Impulse Voltage = 4 kV
Complies with EN60670-22



The Danfoss 12-way WB12 Wiring Centre designed for most popular heating/hot water systems. It provides a systemised and tidy approach to wiring, with cable clamps and terminal numbers. It is designed to be wall mounted, with cable entry from either the rear or through knock-outs in the rear. The following wiring connection information covers most popular domestic heating control systems.

1. Fully Pumped System, 3-Port Mid-Position Valve.

4	5	2	
1	2	4	RMT 230
L*2	NO-ON	N	RET 1001M
L*2	NO-ON	N	RET 2001M
L*2	3	NO-ON	RET2001 RF (RX1-S)
COM	CALL	N	

ROOM THERMOSTAT

* Link terminals L and Com in the RET230P for correct operation. (See thermostat instructions for further information).

** Refer to Boiler wiring information for boilers with pump overrun.

1	2	3	4	5	6	7	8	9	10	11	12
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1	2	3
L	N	⏏

MAINS SUPPLY (Fuse 3A)

6	8	7	3
1	2	3	⏏
COM	CALL	SAT	

ATC CYLINDER THERMOSTAT

9	2	3
L	N	⏏

** PUMP

5	2	7	8
Wh/Br.	Blue	Gr.	Or.
HTG. L	N	HW. OFF	Sw. L

HS3 MID-POS. VALVE

1	2	3	10
Perm L	N	⏏	Sw. L

** BOILER

	3	2	1	7	6	4	
PROGRAMMER	⏏	N	L	OFF	ON	ON	LINKS
				WATER	HTG		
FP720	-	N	L	1	3	4	-

2. Fully Pumped System, 2 x 2-Port Spring Return Zone Valves.

4	5	2	
1	2	4	RMT 230
L*2	NO-ON	N	RET 1001M
L*2	NO-ON	N	RET 2001M
L*2	3	NO-ON	RET2001 RF (RX1-S)
COM	CALL	N	

ROOM THERMOSTAT

* Link terminals L and Com in the RET230P for correct operation. (See thermostat instructions for further information).

** Refer to Boiler wiring information for boilers with pump overrun.

1	2	3	4	5	6	7	8	9	10	11	12	13
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1	2	3
L	N	⏏

MAINS SUPPLY (Fuse 3A)

5	2	9	1
Brn.	Blue	Or.	Gr.
Motor L	N	OUT	IN.
		Aux. Sw.	

HP22, 2-PORT HTG VALVE

6	8	-
1	2	⏏
COM	CALL	

ATC CYLINDER THERMOSTAT

8	2	10	1
Brn.	Blue	Or.	Gr.
Motor L	N	OUT	IN.
		Aux. Sw.	

HP22, 2-PORT DHW VALVE

1	2	3	10
Perm L	N	⏏	Sw. L

** BOILER

9	2	3
L	N	⏏

** PUMP

	3	2	1	6	4	
PROGRAMMER	⏏	N	L	ON	ON	LINKS
				WATER	HTG	
FP720	-	N	L	3	4	-

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