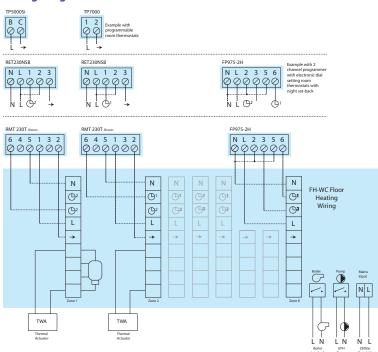
# Whole or part-house Underfloor heating

With flow temperature control, multi-zone wiring box and wired room thermostat

# **Wiring Diagram**





Ordering information						
Туре	Code No	Description Comments				
24 Volts versions						
FH-WC	088H001700	Connection box, 230Vac power supply, 24V output	With socket for 1xSPST relay			
FH-WN	088H002100	Timer module	2 zone timer			
FH-WT	088H002200	Room thermostat	Standard			
FH-WP	088H002300	Room thermostat	Public			
FH-WS	088H002400	Room thermostat	Featured			
FH-WF	088H002500	Floor sensor, for use with FH-WP & FH-WS				
FH-WR	088H002600	Pump relay kit, for use with FC-WC (24V)				
TWA-A	088H311000	Thermal actuator for use with manifold. 24 Vac	Normally closed. For alternative thermostats refer to page 24 & 25 One thermostat and actuator required per zone.			
Manifold	Please refer to p	to page 27 for specification and codes				
230 Volts versions						
FH-WC	088H012801	8-zone wiring box with integrated heat demand relays				
FP-975-2H	087N759900	2-channel programmers with voltage free contacts, 2 Zone	For single channel timeswitch refer to page 25			
RMT-230T	087N112500	Room thermostat with night set-back option				
TWA-A	088H311200	Thermal actuator for use with manifold, 230 Vac	For alternative thermostats refer to page 24 & 25			
Manifold	Please refer to p	Please refer to page 27 for specification and codes  One thermostat and actuator required per zone.				
Mixing loop products						
RAVK	013U806300	Thermostatic controller for use with VMV mixing valve	Range 25 - 65°C			
VMV20	065F002000	3/4" 3-port mixing valbe for use wiyh RAVK thermostatic controller	Refer to page 22 for alternative sizes			





- Maintains programmed room temperatures, including night set-back
- Secure low temperature water to the circuit
- Ensures high flow rate in floor heating circuit
- Does not rely on the pump in the existing heating system

# Single room Underfloor heating

In an extension to an existing heating system - with flow temperature control and wireless room thermostat

A wireless programmable room thermostat for controlling the room temperature in a single room, where the flow temperature is controlled by a separate thermostatically controlled mixing valve arrangement.

- Normally used for larger single room UFH systems, where additional pump capacity is required.
- Can also be used as a zone control (controlling more than one UFH circuit) where individual room control is not required.
- Used where low flow temperatures are required due to the pipe layout, floor construction or flooring surface.

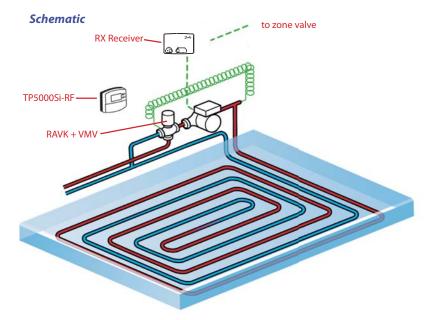
No special requirements for floor constructions – can be used in all types of floor constructions, all pipe layouts and flooring surfaces. A safety thermostat, not shown, can be added to increase the safety and to prevent high flow temperatures.

a safety thermostat to turn off the pump if high flow temperatures are measured (not shown on the drawing).

The wireless thermostat uses secure digital RF communication to activate a relay within the RX receiver unit located adjacent to the UFH heating circuit.

### Control

A wireless programmable room thermostat is used to turn the pump on or off according to actual heat demand to maintain programmed room temperatures. The thermostatic controlled mixing arrangement ensures a low flow temperature of the water entering the Underfloor Heating circuit. In addition the system can be fitted with





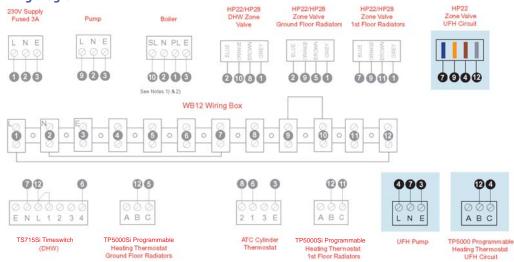
Additional Information: www.danfoss-randall.co.uk

# Single room Underfloor heating

In an extension to an existing heating system - with flow temperature control and wireless room thermostat



# **Wiring Diagram**



Notes 1) Boiler SL = switched live 2) Boiler PL= permanent live (some boilers only)

## **Ordering information**

Туре	Code No	Description	Comments
RAVK	013U806300	Thermostatic controller for use with VMV mixing valve, range 25-65°C	
VMV20	065F002000	3/4" 3-port mixing valvefor use with RAVK thermostatic controller	Refer to page 22 for alternative sizes
TP5000Si	087N791000	5/2 day programmable room thermostat	Refer to page 24 & 25 for alternative models
RX-1	087N747600	Single channel receiver, works in conjuction with 1 thermostat	Refer to page 24 for 2 & 3 channel versions
HP22	087N660900	22mm 2-port motorised zone valve complete with actuator	Refer to page 25 for alternative sizes

