

FED-W Self-acting controls for comfort cooling systems

HOT AND COLD – ONE CONTROL



FED-W – Heating and Cooling in sequence



FED-W (0.5 meter)



FED-W (10 meter)

This new self-acting Danfoss controller enhances the user friendliness for hydronic comfort cooling systems.

Combining all the advantages and features of a normal radiator thermostat and the cooling adapter – the FED-W can control the water flow to both a heating and a cooling emitter.

Typical applications are

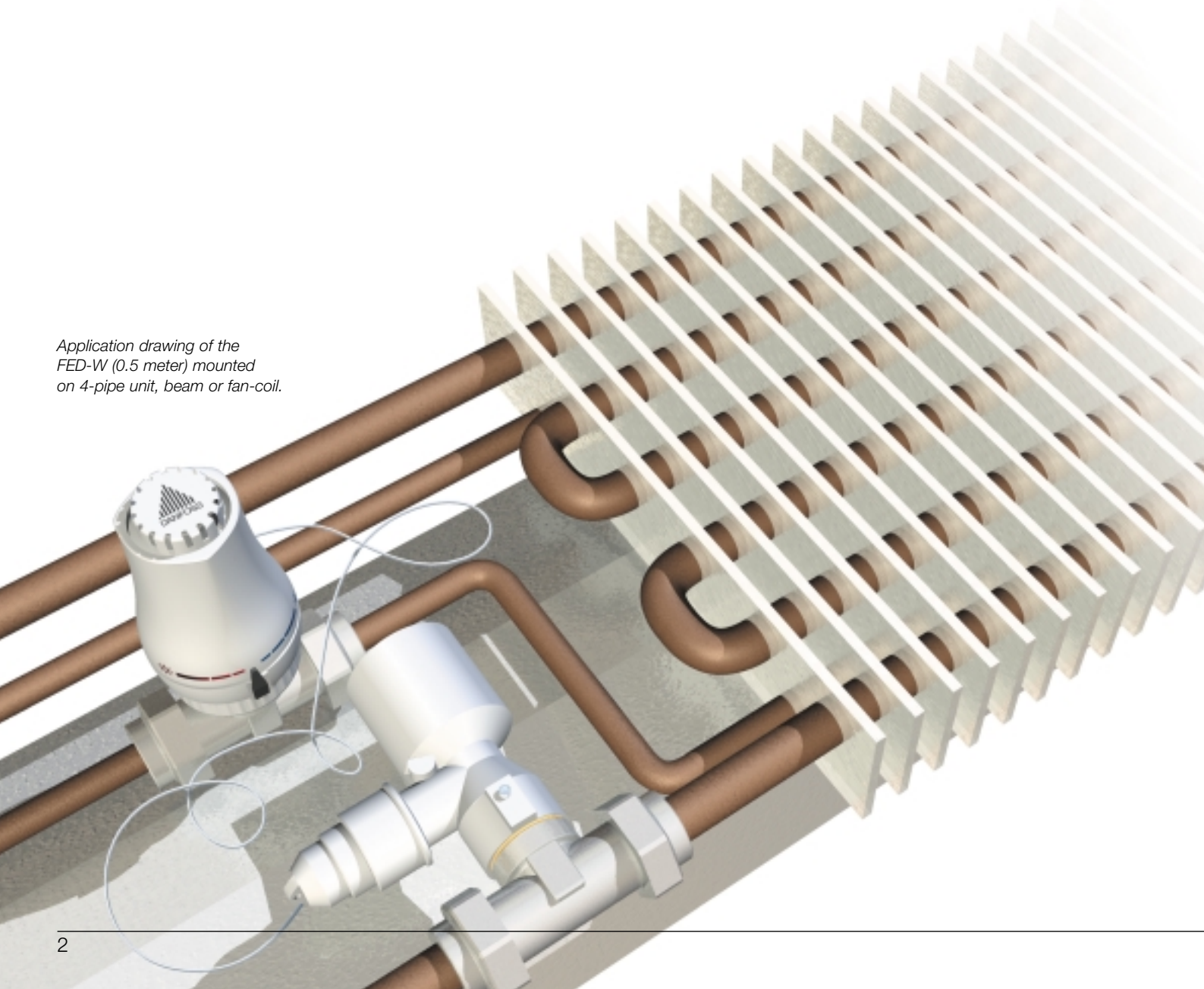
- Radiator and chilled ceiling in sequence
- 4-pipe chilled beams or
- 4-pipe fan-coils or induction units.

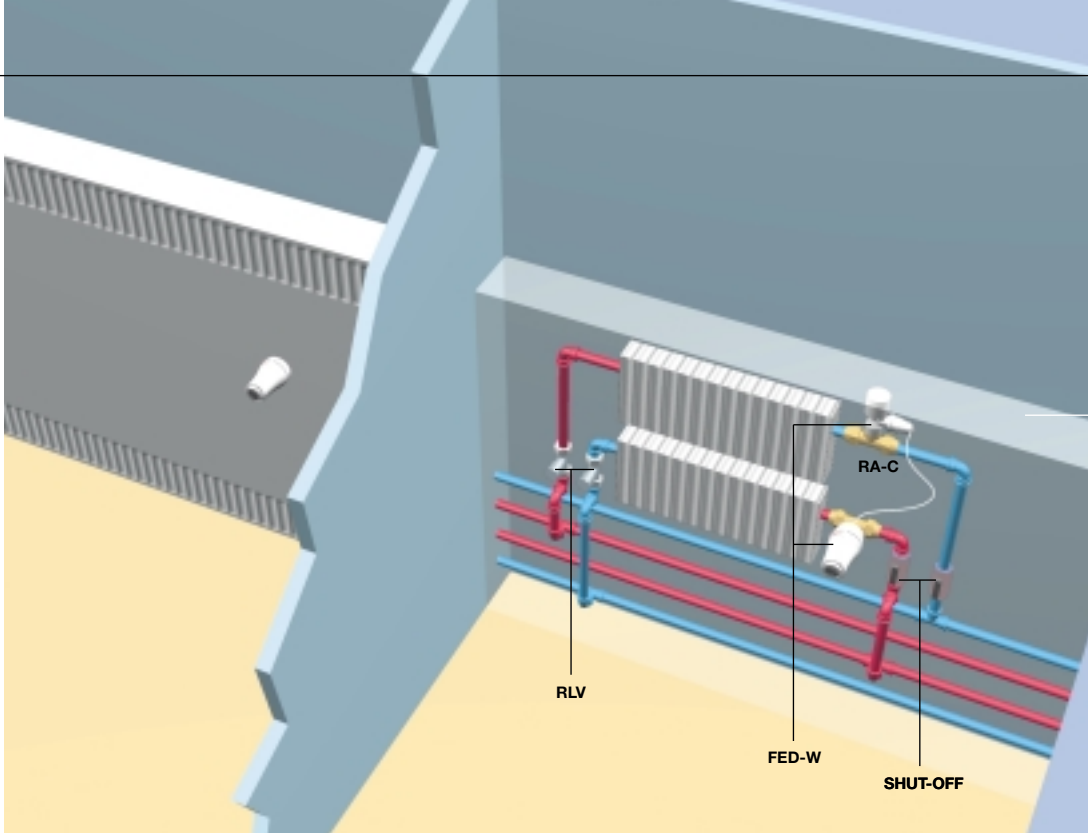
The built in limiting function enables the end user to limit or lock the temperature setting range between 17 to 27 °C.

The temperature setting sensor is connected via a thin capillary tube to the cooling adapter. By means of a bayonet connection the cooling adapter can be disconnected if the capillary tube needs to be concealed in the wall.

The cooling adapter has a built in neutral zone between heating and cooling so no heating and cooling take place at the same time.

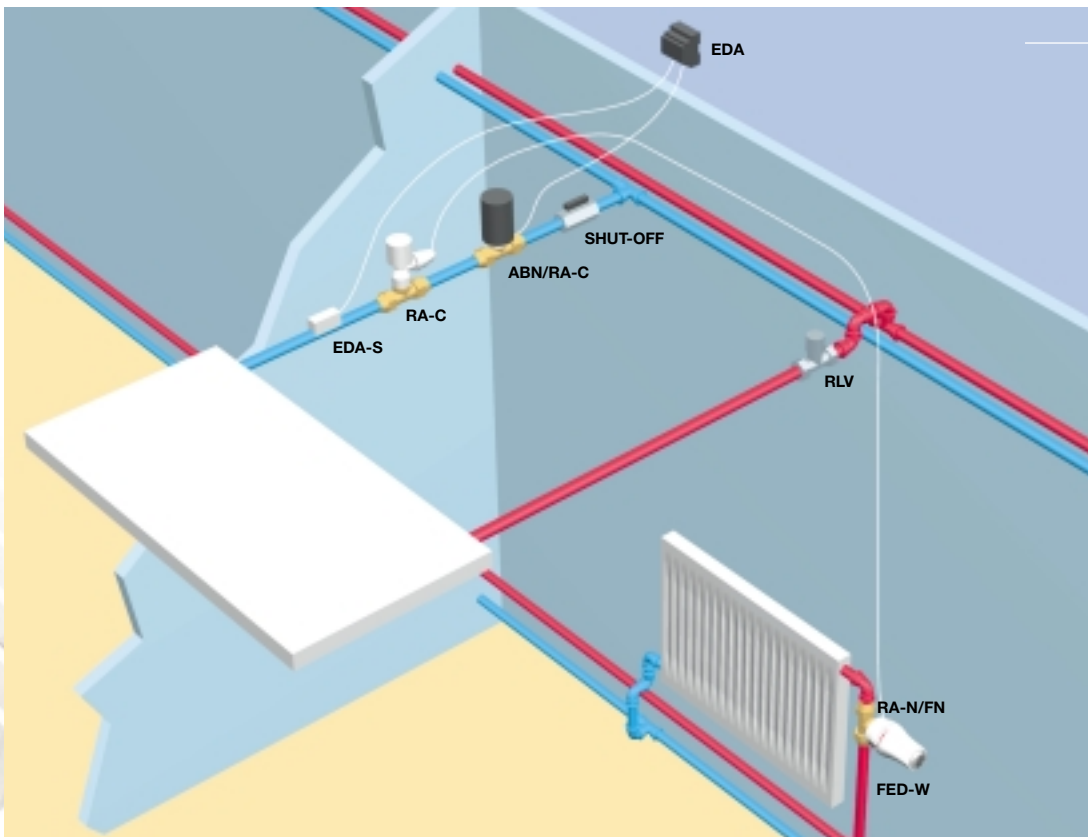
Application drawing of the FED-W (0.5 meter) mounted on 4-pipe unit, beam or fan-coil.





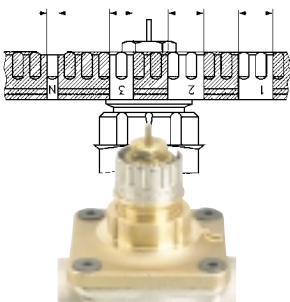
Application example fan-coil, induction unit or 4-pipe beam.

The sensor with the snap-connection can be mounted on the heating valve with a soft click. The cooling adapter is mounted on the cooling valve and fastened by means of an Allen key.

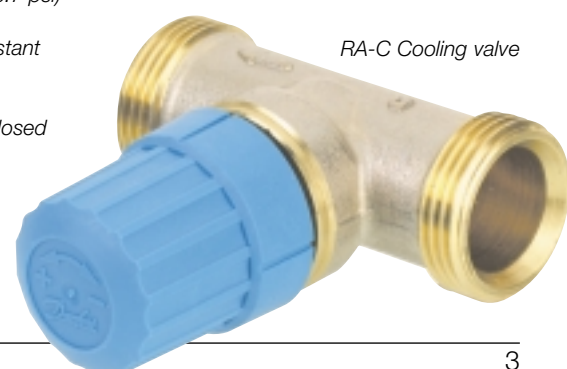


Application example radiator and chilled beam or panel.

In renovation projects where additional cooling emitters are installed the FED-W is very easy to install in the application and controls both heating and cooling in sequence.



- RA-C valves have four pre-settings to ensure correct water flow through the valve
- External threads – possible to use compression fittings for copper, steel and PEX pipes
- RA-C 15: kvs = 1.2 m³/h
- RA-C 20: kvs = 3.3 m³/h
- PN 10 (maximum static pressure 145 psi)
- Maximum Δp 0.6 bar (8.7 psi)
- Made of corrosion-resistant brass (DZR)
- Max. glycol 40% and closed secondary circuit



RA-C Cooling valve

5 reasons why Danfoss self-acting climate controllers are an attractive alternative to electronic controllers:



Flexibility

If you change the office landscape, it is a simple matter to change the location of each controller. The capillary tubes are flexible in length and can easily be concealed.

End user friendly

Every end-user will know how to operate a self-acting climate controller because they are most likely to have a self-acting radiator thermostat in their own home.

Quality

Danfoss has produced self-acting controller solutions for more than 50 years. We transform our experience into premium valves and controllers.

Cost benefit

Self-acting technology gives considerably lower purchase, installation, operation and maintenance costs compared to electronic solutions.

Reliability

The operating lifetime of all self-acting Danfoss controllers is often more than 20 years, and during their lifetime no upgrading and little maintenance is needed.

	Code No.	Sensor	Capillary tube	Temperature setting range
FED-W (10 m)	013G5480	Integrated in handle	10 meter	17 °C - 27 °C
FED-W (0.5 m)	013G5481	Integrated in handle	0.5 meter	17 °C - 27 °C

	Code No.	Connections	Presetting Kv-value [m³/h]				Kvs [m³/h]	dp-max [bar]	Test-press [bar]
			1	2	3	N			
RA-C 15	013G3094	2 x G 3/4 A	0.30	0.55	0.75	0.90	1.2	0.6	16
RA-C 20	013G3096	2 x G 1 A	0.80	1.10	1.70	2.60	3.3		

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