

## 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**

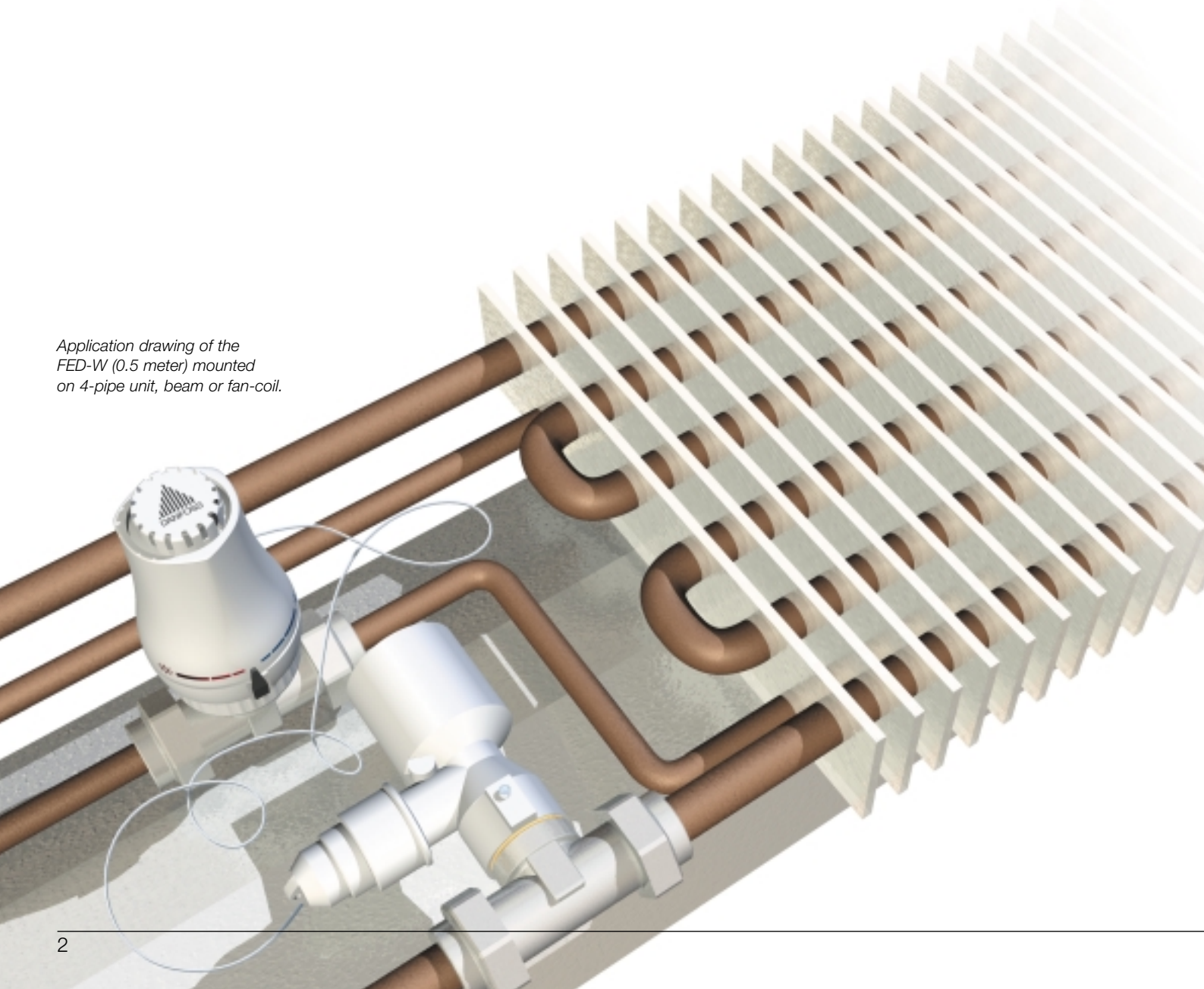
- Radiator and chilled ceiling in sequence
- 4-pipe chilled beams or
- 4-pipe fan-coils or induction units.

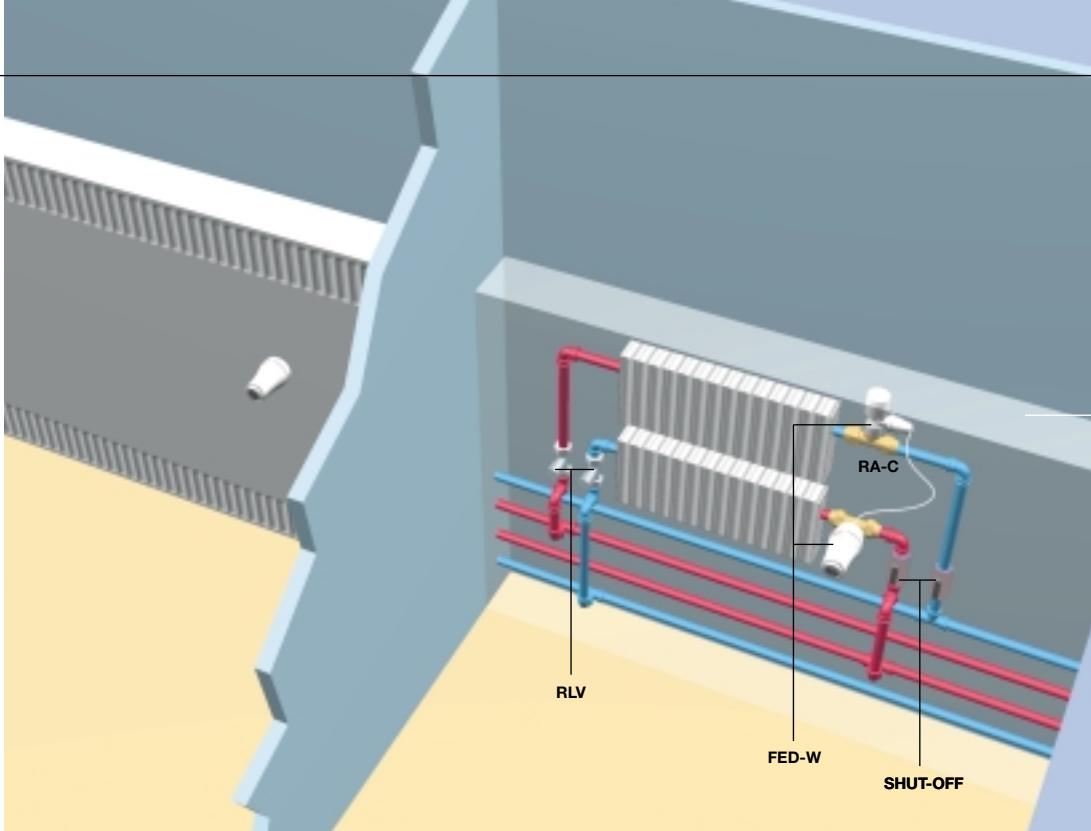
The built in limiting function enables the end user to limit or lock the temperature setting range between 17 to 27 °C.

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.

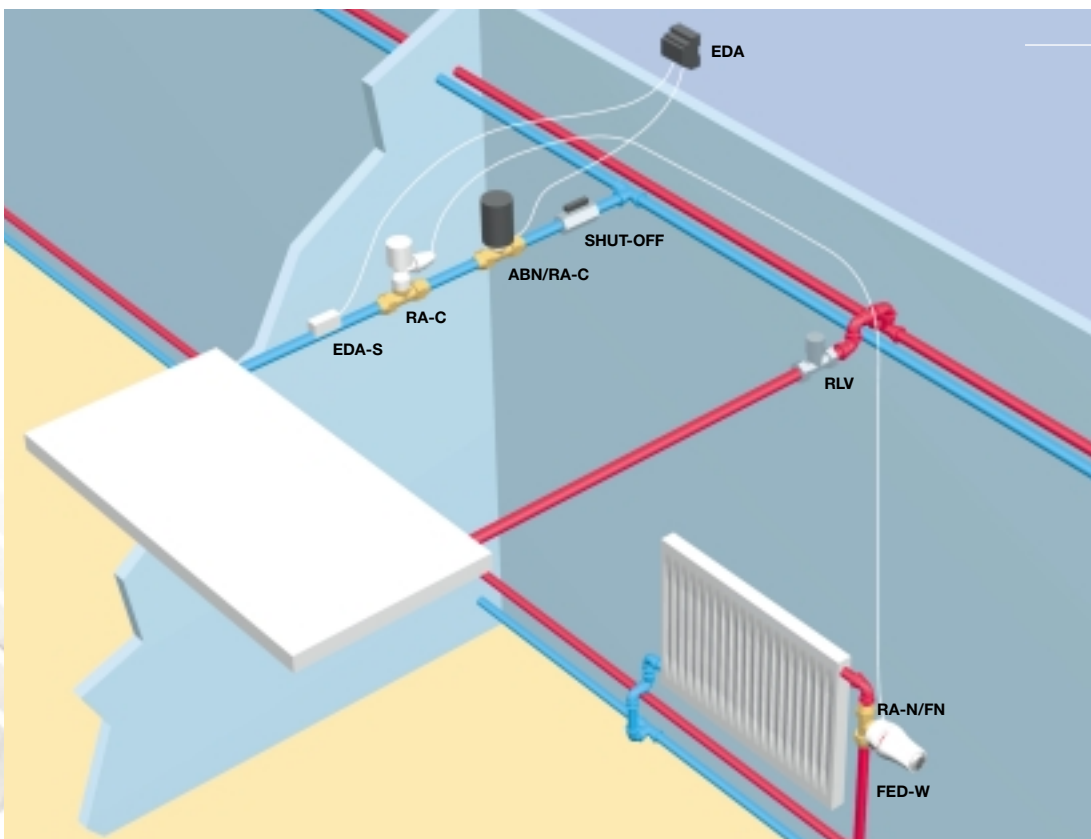
*Application drawing of the FED-W (0.5 meter) mounted on 4-pipe unit, beam or fan-coil.*





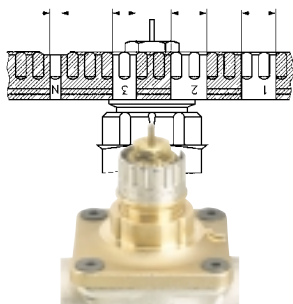
**Application example fan-coil, induction unit or 4-pipe beam.**

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.

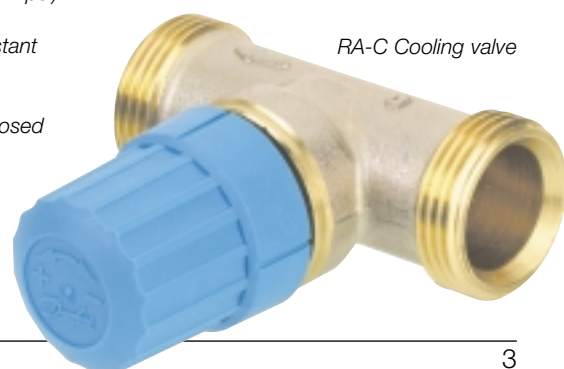


**Application example radiator and chilled beam or panel.**

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 m<sup>3</sup>/h
- RA-C 20: kvs = 3.3 m<sup>3</sup>/h
- PN 10 (maximum static pressure 145 psi)
- Maximum  $\Delta p$  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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