District Heating
Data Sheet

Calefa II V

Indirect heat interface unit with electronic control

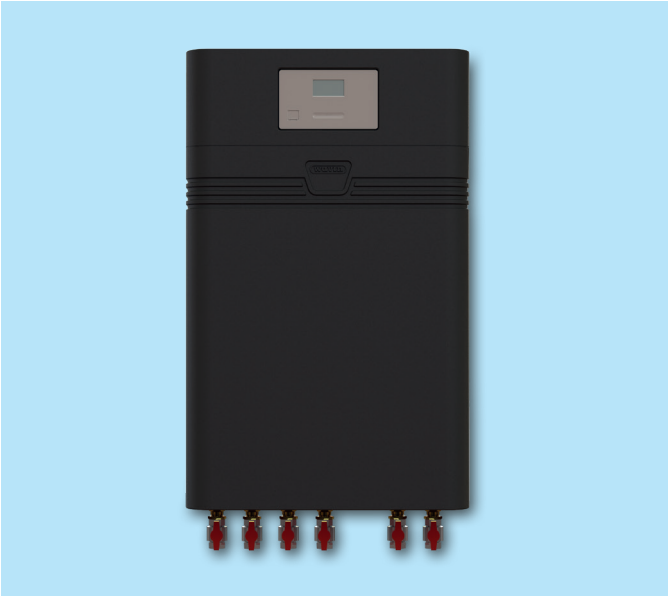
wavin

orbia

Wavin Calefa II V

Indirect heat interface unit with electronic control

Calefa II V is an indirect district heating unit with flow-through water heater and heat exchangers, for space heating of apartments and larger housing complexes. With a modern design, Wavin offers a unique district heating unit that ensures optimal operation and heating throughout the season. The intelligent hot water control learns from actual consumption patterns, ensuring availability of hot water when the need arises and leaving no energy wasted outside of the time of use. The hot water temperature is easily set on the controller's digital display. Calefa II V can be supplied with weather compensation for simple control of heating demand and comfort periods, which are also easily set in the display.



Hot water - fast

The unique main valve is a pressure-independent Frese Optima Compact with a fast-acting motor that quickly provides the desired hot water temperature at the tap point. This is possible because the motor can open the valve fully in just 1 second.

Suitable for low temperature systems

With its high-performance heat exchangers, the unit ensures the most efficient use of the circulating water, making it ideal for district heating schemes that utilise lower temperatures.

Bypass - always learning from consumption

The bypass function ensures that the flow to the unit is always up to temperature, creating the shortest possible wait from turning on the tap to receiving hot water. If the controller's Auto function is used, hot water consumption is analysed automatically. After two weeks of use, the controller will recognise the consumption pattern and only keep the system warm based on the expected periods of hot water use. The bypass will then continue to learn and adapt from ongoing use. Alternatively, the bypass can be set to a manual schedule if preferred, and can be programmed from the controller display.

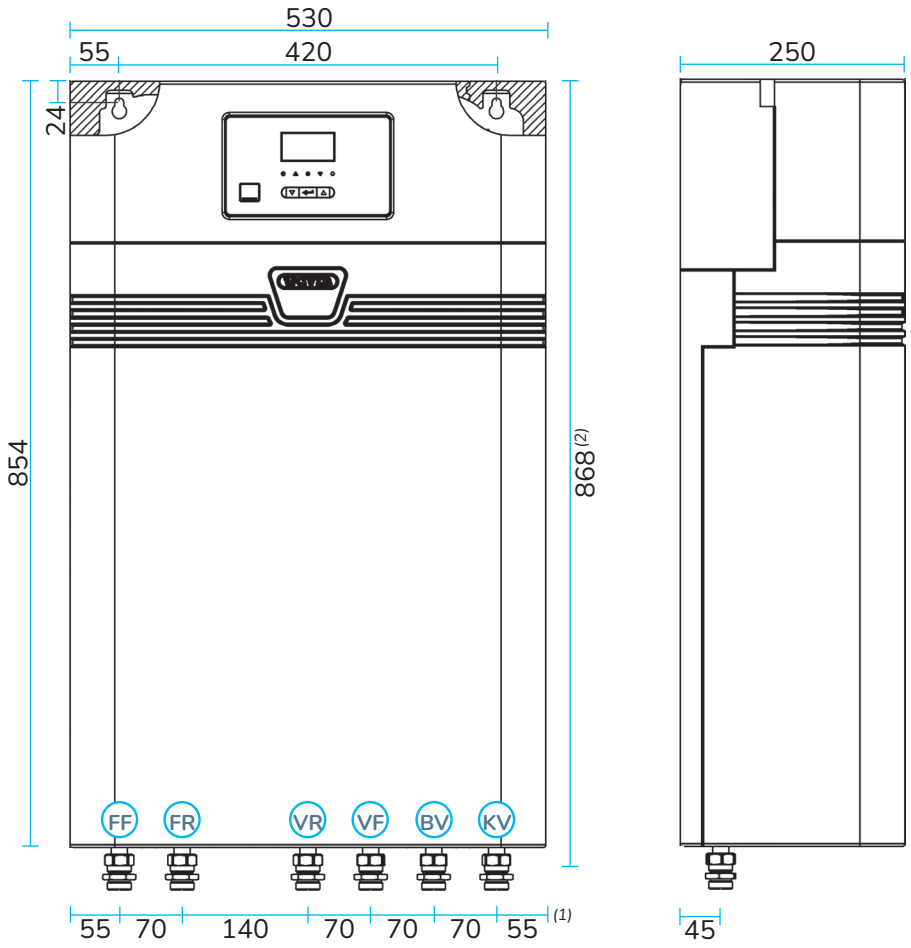
Optimal comfort and economy

- Intelligent demand-controlled hot water regulation
- Easy setting of heating and hot water demand via display
- Optimised flow control via wireless outdoor sensor
- Customisable heat demand and scheduling
- Minimal power usage

Simple installation and intuitive operation

- Controller display allows easy adjustment of heating and DHW temperatures
- Internet connection for remote updates and troubleshooting support
- Flexible pipe connection - right and left-handed models available
- Automatic fault-finding and diagnosis

Unit dimensions (mm)



Entry	Connection
FF	District heating supply
FR	District heating return
VR	Heating return
VF	Heating supply
BV	Domestic hot water
KV	Domestic cold water

(1) Dimensions shown are for the left-handed unit. For right-handed units, the connection positions and dimensions are mirrored.

(2) +60mm if optional DN15 ball valves are included.

Technical data

Hydraulic

Max. system pressure (primary)	16 bar / 1600 kPa
Max. system pressure (secondary)	2.5 bar / 250 kPa
Max. system pressure (DHW)	10 bar / 1000 kPa
Max. system temperature (primary)	120˚C
Max. system temperature (secondary)	85˚C
Max. system temperature (DHW)	90˚C
Total water volume	Max. 3 litres
Power supply	230V 50Hz 45W
Meter connection	3/4" x 110mm standard (165/190mm options available)
Insulation	EPP, λ: 0.039 (W/mK)

Heat loss

HIU with insulated jacket	Type	DHW (W/k)	Heat (W/k)
Calefa V 40/40	Indirect	0.44	0.25

DHW-212-V-ITC controller

Power supply	230V/50Hz
Power consumption	Stand by 1W / Max 45W
Plug type	Type K
IP rating	IP41
Operating temperature	0 to 50°C
Battery	CR2032 3V/0.2A
Radio frequency	868.5 MHz/25mW

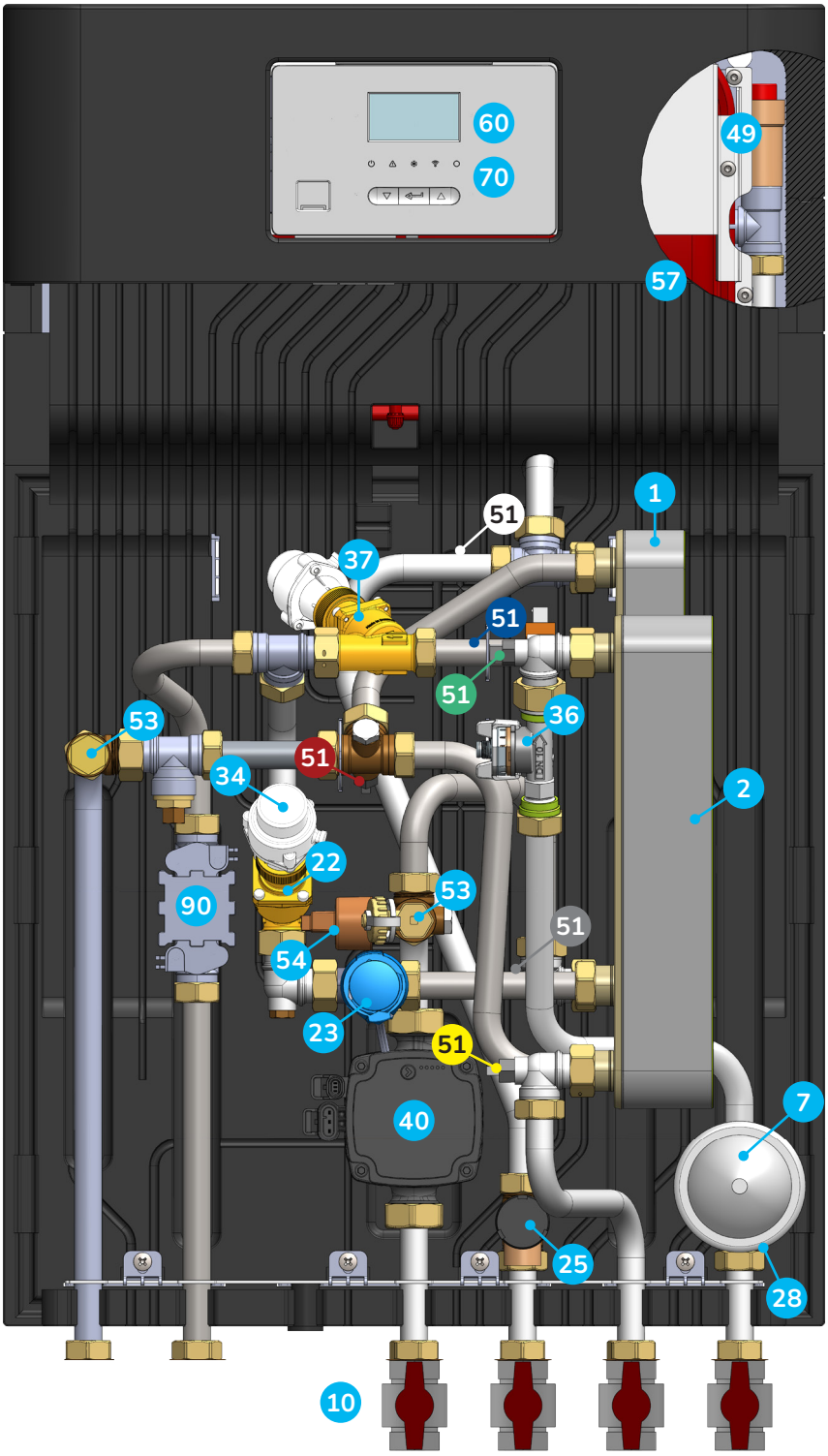
Grundfos UPM3 15-70 130 pump

Curve	H	P_{Max}	Adjusted consumption (F_p = 0.4 automatic control)
Curve 1	5 m	33 W	13.2 W
Curve 2	6 m	39 W	15.6 W
Curve 3	7 m	52 W	20.8 W

Components

Calefa II V components

01	Plate heat exchanger (DHW)
02	Plate heat exchanger (heating)
07	Shock absorber
10	Shut-off valves (optional)
22	Pressure independent valve (PICV), heating
25	Safety valve (heating)
28(A)	Controllable non-return valve
34	Motorised actuator (ITC)
34(A)	Capillary thermostat (manual control)
36	Flow meter
37	Pressure independent valve (PICV), hot water
40	UPM3 pump
49	Automatic air vent
51	Temperature sensors
52	1/2” pressure outlet
53	Strainer
54	Pressure transmitter
57	Expansion vessel
59	1/2” sensor pocket
60	Calefa DHW 212 V ITC controller
70	Calefa DHW 211 V hot water controller
90	3/4” x 110mm connections for heat meter installation



Temperature sensors (51)

All units

District heating return	DARK BLUE
Domestic cold water	GREEN
Domestic hot water	YELLOW
District heating supply	RED

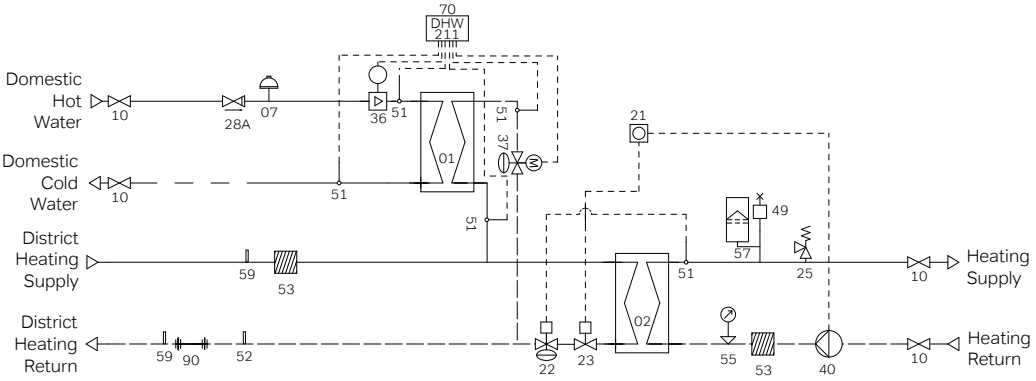
ITC units only

Heating return	GREY
Heating supply	WHITE

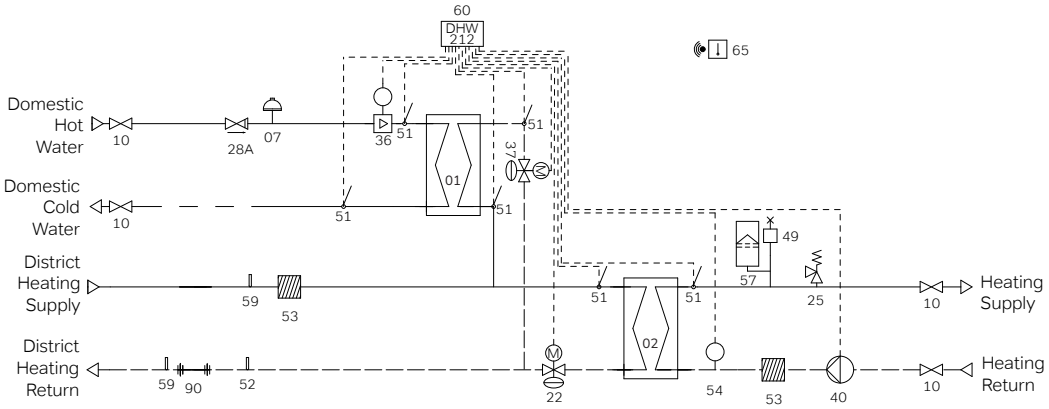
Schematics

01	Plate heat exchanger (DHW)
02	Plate heat exchanger (heating)
07	Shock absorber
10	Shut-off valve
22	Pressure independent valve (PICV), heating
25	Safety valve (heating)
28(A)	Controllable non-return valve
34	Motorised actuator (ITC)
34(A)	Capillary thermostat (manual control)
36	Flow meter
37	Pressure independent valve (PICV), hot water
40	UPM3 pump
49	Automatic air vent
51	Plant sensors
52	1/2” pressure outlet
53	Strainer
54	Pressure transmitter
57	Expansion vessel
59	1/2” sensor pocket
60	Calefa DHW 212 V ITC controller
65	Wireless outdoor sensor (optional)
70	Calefa DHW 211V hot water controller
90	3/4” x 110mm connections for heat meter installation

HIU schematic, Calefa II V



HIU schematic, Calefa II V ITC



Performance data

UK market specification

Performance table, hot water

Calefa II V			Supply temperature		55°C	Supply temperature		60°C	Supply temperature		65°C	Supply temperature		70°C
			Hot water		10/45°C	Hot water		10/50°C	Hot water		10/50°C	Hot water		10/50°C
HX type	Primary flow (l/hr)	Pressure drop (kPa)	Output (kW)	Flow rate (l/min)	Return temp (°C)	Output (kW)	Flow rate (l/min)	Return temp (°C)	Output (kW)	Flow rate (l/min)	Return temp (°C)	Output (kW)	Flow rate (l/min)	Return temp (°C)
WX 26pl	625	20	26.8	11.0	17.8	29.4	10.6	19.2	34.3	12.3	17.4	38.7	13.9	16.2
	695	25	29.5	12.1	18.1	32.3	11.6	19.6	37.8	13.6	17.8	42.7	15.4	16.5
	845	35	35.2	14.5	18.9	38.5	13.8	20.4	45.1	16.2	18.6	51.2	18.4	17.3
	1000	50	40.8	16.8	19.6	44.6	16.0	21.3	52.8	18.9	19.4	59.7	21.4	18.1
WX 40pl	800	20	35.0	14.4	17.0	38.4	13.8	18.3	44.6	16.0	16.6	50.2	18.1	15.4
	850	25	37.0	15.2	17.2	40.6	14.6	18.5	47.2	17.0	16.8	53.2	19.1	15.6
	1000	35	43.0	17.7	17.7	47.1	17.0	19.1	54.9	19.8	17.3	62.0	22.3	16.1
	1190	50	50.4	20.7	18.3	55.1	19.8	19.8	64.4	23.2	19.7	72.9	26.2	16.7
WX 60pl	850	20	38.1	15.7	16.1	41.9	15.1	17.3	48.4	17.4	15.6	54.3	19.5	14.5
	950	25	42.3	17.4	16.4	46.4	16.7	17.5	53.7	19.3	15.9	60.4	21.7	14.8
	1110	35	49.0	20.1	16.7	53.7	19.3	18.0	62.3	22.4	16.3	70.1	25.2	15.1
	1300	50	56.7	23.3	17.1	62.2	22.4	18.5	72.3	26.0	16.7	81.4	29.3	15.6

Performance table, heating

Calefa II V	Floor heating					Radiators				
	Temperature 60/30°C - 35/30°C					Temperature 60/30°C - 55/25°C				
HX type	Output (kW)	Primary flow rate (l/hr)	Secondary flow rate (l/hr)	Pri. pressure drop (kPa)	Sec. pressure drop (kPa)	Output (kW)	Primary flow rate (l/hr)	Secondary flow rate (l/hr)	Pri. pressure drop (kPa)	Sec. pressure drop (kPa)
WX 26pl	8.4	244	1454	6	50 (1)	29.5	990 (1)	852	58	18
WX 40pl	12.7	368	2195	6	50 (1)	31.4	990 (1)	909	42	10

(1) *Limiting condition used for performance calculation. Contact Wavin for specific calculations.*

Product listing

Model	Product code	Weight (kg)	Height (mm)	Width (mm)	Depth (mm)
Calefa II V 26-26 V	3094324	31.5	870	530	250
Calefa II V 40-26 V	3094325	31.5	870	530	250
Calefa II V 60-40 V	3094326	31.5	870	530	250
Calefa II V ITC 26-26 V	3094327	31.5	870	530	250
Calefa II V ITC 40-26 V	3094328	31.5	870	530	250
Calefa II V ITC 60-40 V	3094329	31.5	870	530	250

Advancing Indoor Comfort with Wavin

- Surface heating and cooling
- Heat interface units
- Mechanical ventilation
- Smart control systems

From family homes to apartments, Wavin stands as the trusted choice for a comprehensive indoor climate solution.
Through innovative controls, it seamlessly integrates underfloor heating, ceiling heating and cooling, heat interface units and mechanical ventilation.

All components work harmoniously in a unified solution, Advancing Indoor Comfort with efficiency and ease.

Wavin is part of Orbia, a community of companies working together to tackle some of the world's most complex challenges.
We are bound by a common purpose:
To Advance Life Around the World.

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May 2026