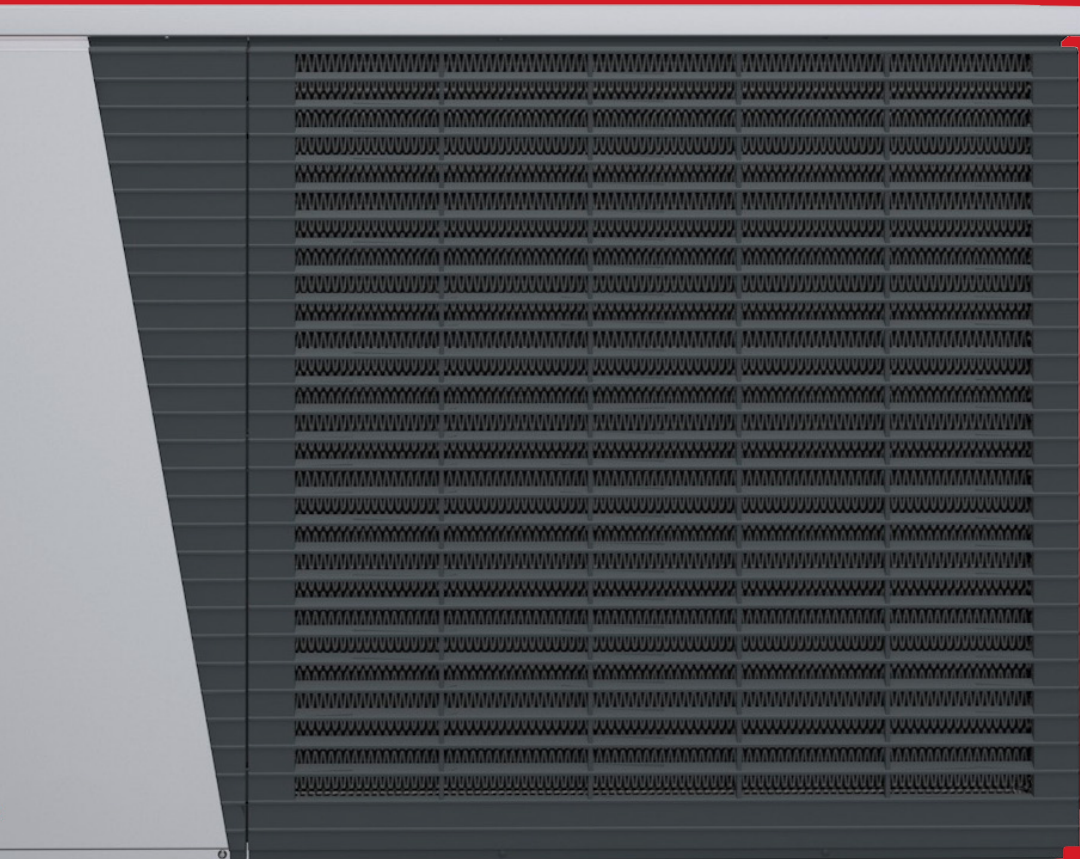


Alira

outdoor heat pump
with natural refrigerant



MODELS

LWDV91

LWD50

LWD70

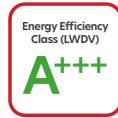
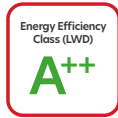
LWD90

TOTAL POWER
(kW)

7.1 - 10.1

Alira Outdoor Natural

The Alira outdoor natural air source heat pump is highly efficient, quiet and is available in a range of 4 models from 7.1kW - 10.1kW. Using the air as the source of energy, the Alira utilises advanced technology to provide sustainable heating and hot water; a natural refrigerant is also used, which allows the Alira Outdoor Natural to be CO2 neutral. The Alira can be cascaded for larger projects.



cascade arrangement

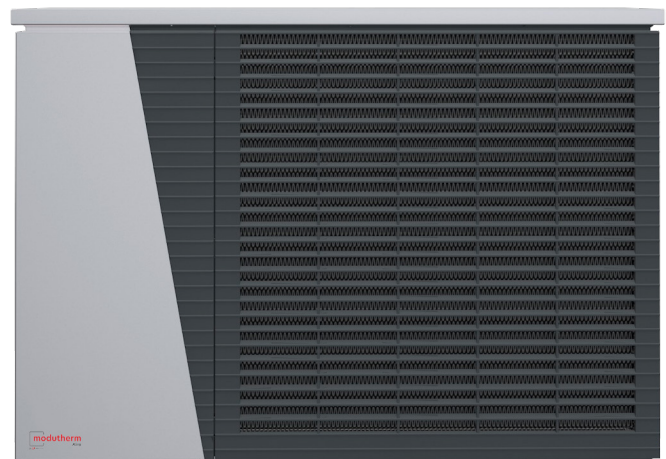


key features

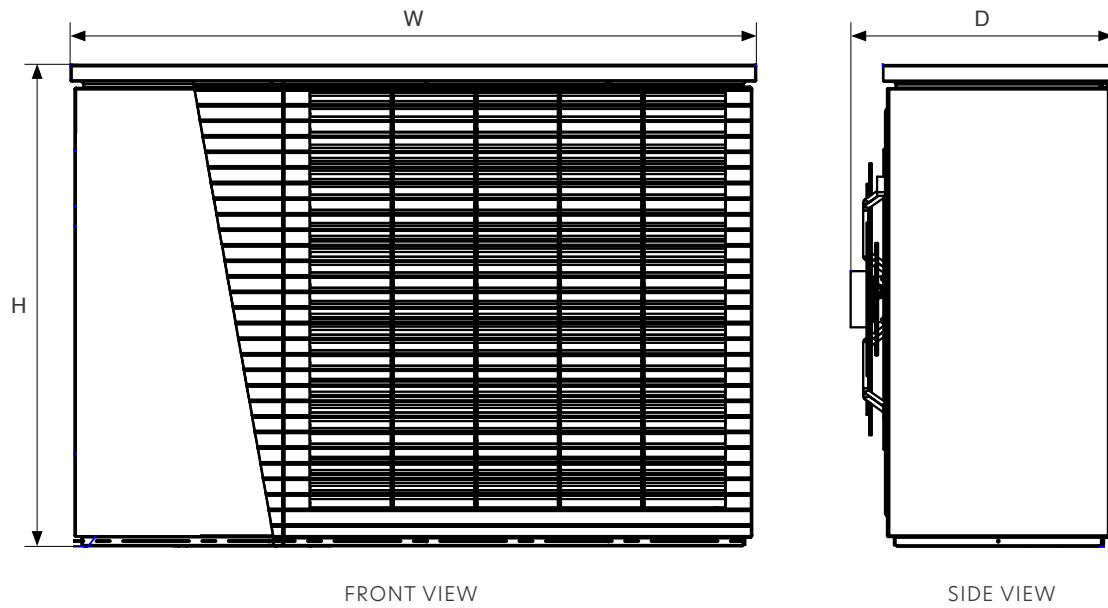
- Carbon neutral (natural refrigerant)
- Operates up to 62°C water temperature (70°C model LWDV91)
- COP ranges from 4.12 - 5.41 based on EN14511 with water at 35°C and ambient air at 7°C
- Weather resistant
- 1 frame size
- Cooling models available

warranty

- 2 year warranty*



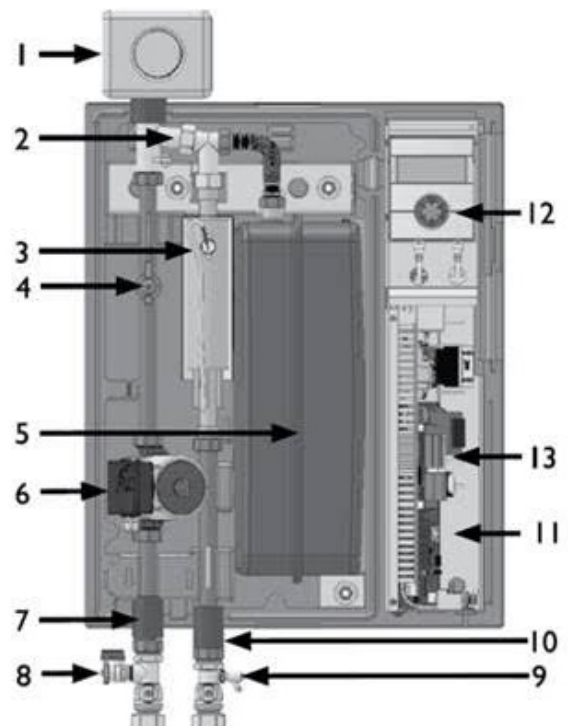
DIMENSIONS



		MODEL			
		LWDV91	LWD50	LWD70	LWD90
Height	mm	930	930	930	930
Width	mm	1320	1320	1320	1320
Depth	mm	510	510	510	510
Hot water flow	inches	1	1	1	1
Hot water return	inches	1	1	1	1

hydraulic module

- 1 safety module heating circuit
- 2 air separator
- 3 water heater (6kW)
- 4 flow controller
- 5 expansion vessel (12 litres)
- 6 circulation pump heating circuit (energy efficient in E - variants)
- 7 flow output
- 8 filling and draining valve
- 9 ventilation
- 10 flow entry
- 11 electrical switch box
- 12 control unit controlling
- 13 confort board (only in E - variants)



TECHNICAL DATA

		MODEL				
		LWDV91- INVERTER	LWD50	LWD70	LWD90	
heating capacity	Air 7°C - Water 35°C	kW	8.2	7.1	8.5	10.1
	COP		5.4	4.8	4.3	4.1
	Air 7°C - Water 45°C	kW	N/A	6.8	8.4	9.9
	COP		N/A	3.8	3.5	3.5
	Air 7°C - Water 55°C	kW	8.2	N/A	N/A	N/A
	COP		3.3	N/A	N/A	N/A
	Air 10°C - Water 35°C	kW	8.2	7.5	10.5	11.3
	COP		6.0	5.0	5.1	4.5
limits of use	Air -7°C - Water 35°C	kW	8.1	4.6	6.3	7.5
	COP		3.1	3.2	3.2	3.1
limits of use	Heating circuit (min / max)	°C	20 / 70	20 / 62	20 / 62	20 / 60
	Heat source (min / max)	°C	-22 / 35	-20 / 35	-20 / 35	-20 / 35
sound	Sound pressure level - 1 metre from edge of unit	dB(A)	49	45	45	50
general data	Total weight	kg	141	141	146	149
	Refrigerant type/capacity	/kg	R290 - 1.05	R290 - 0.95	R290 - 1.1	R290 - 1.17
	Electrical supply	V	240	240	240	415
	Compressor		1	1	1	1



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A member of the Modular Heating Group.