

Ulow-E | Technical Data Sheet

General

The Ulow-E is a highly efficient fan-assisted radiator that pairs well with heat pumps for optimal indoor comfort. Ulow-E is suitable for residential flats and houses that operate with low temperature systems. Integrated fans that automatically activate whilst operating increases the natural convection through the radiator and can boost overall heat output by up to 60%.

The Ulow-E is a classic double panel, double convector, compact panel radiator with sleek profiles, finished in white RAL 9016 to match all interiors. An integrated manifold and pre-adjustable valve insert is equipped as standard. This makes Ulow-E ideal for renovation projects, where you are replacing old or inefficient radiators, the product includes both the compact and valve required to operate the product. Ulow-E is compact in size, offering space-saving installation with no compromise on heating performance. An easily accessible, factory-fitted cable switch gives the user flexibility to switch the power off, this could be when at work, at night or during warmer months of the year where heating is not required.



Heat pump radiator



Easy-to-use



2 years on electric components



10 years on panel

Brand

Purmo / Radson

Product

Ulow-E

Material

Cold rolled steel, according to EN442-1

Colour

RAL 9016, white

Max operating temperature

60 °C

Max operating pressure (MOP)

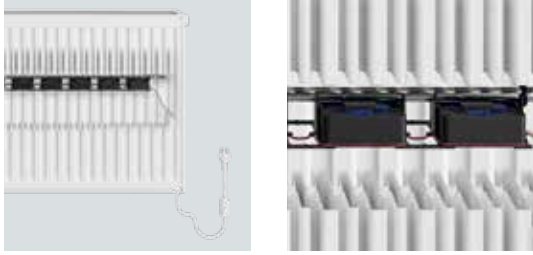
10 bar



IP 30 Class II



Ulow-E | Technical Data Sheet



Technical text & design

The Ulow-E is an ultra-low temperature panel radiator which automatically switches on the integrated fans when needed to support the natural convection of the radiator. This increases the radiator's performance and consequently allows for both lower temperature settings and a reduced energy consumption.

The Ulow-E low temperature radiator is designed to be combined with a heat pump or condensing boiler. In a low temperature heating system, this combination will ensure the optimal performance of both heat generator and the emitters. The Ulow-E can be used in new builds, but is also very useful in renovation projects since it is rotatable for a bottom left connection and can serve as a replacement for existing Ventil and Compact radiators.

Thanks to its timeless design and classy finish the Ulow-E can easily be used in all room settings. Compact dimensions ensure a space-saving installation without compromising on the high heating performance.

Treatment and finish

Treatment procedure according to the standard DIN 55900 and EN 442 (emission-free):

- Preparatory phase: degreasing, phosphatising and rinsing with Demin water
- First varnishing phase: application of the primer by dip coating
- Final coating: according to the epoxy-polyester powder principle

Range

- Heights: 500, 600 and 900 mm
- Lengths: 400, 600, 800, 1000, 1200, 1400, 1600, 1800 and 2000 mm
- Depth: Type 22 = 105 mm

Colours

White RAL 9016 as standard.

Scope of delivery

Valve insert incl. protection cap, sealing and air vent plugs are pre-assembled at the factory. The wall brackets are included (Monclac wall brackets: 2 pcs. up to 1600 mm; 3 pcs. for 1800 and 2000 mm). Furthermore, a complete pre-installed fan group with temperature control unit and an integrated low-voltage transformer with ready-to-connect Euro plug power cord with switch.

Mounting

The radiators are attached to the wall by using wall brackets (VDI 6036 AK 2/3).

Hydronic connection

Connections: 2 x $\frac{3}{4}$ " Eurocone bottom right, 4 x $\frac{1}{2}$ " side connections. This all-in-one radiator can be connected to the heating system from the side or from the bottom. Thus Ulow-E can serve as a replacement for the existing Ventil and Compact radiators. The radiator is rotatable for a bottom left connection (bottom right connection = standard).

Electric connection

A power connection is required to operate the integrated fans. The power cable is equipped with an easy-to-reach cable switch for power disconnection in summer, service or at night in bedrooms. Cable length 1,2 m with Euro plug.

Packaging & protection

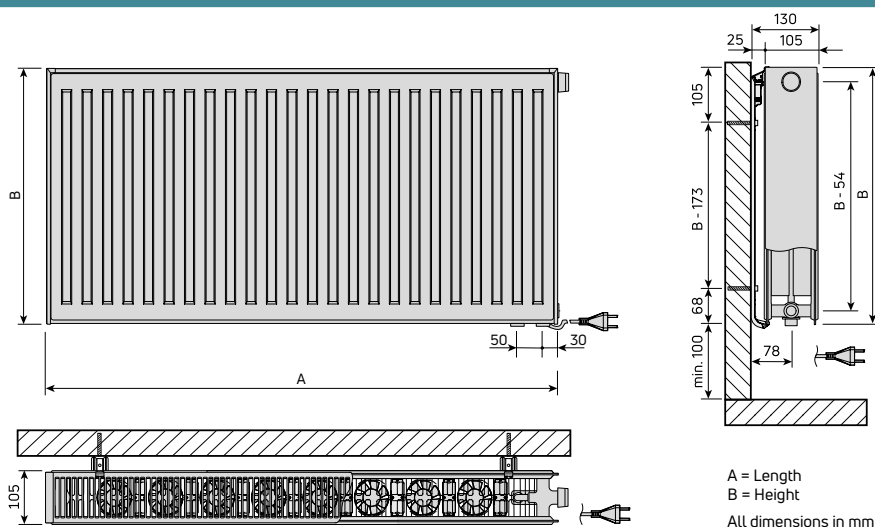
The radiator is protected by durable board sheets and with cardboard corner protection. Additionally it is factory wrapped in a heat-shrinkable film. The plastic foil packaging remains around the radiator until it is mounted, in order to prevent damage or dirt.

Warranty

10 years – 2 years for the electrical parts

Ulow-E | Technical Data Sheet

Dimensions



Heat outputs, weights and water contents

Height B (mm)			Length A (mm)								
			400	600	800	1000	1200	1400	1600	1800	2000
500	Heat output fan assisted	55/45/20°C (W)	458	688	917	1146	1375	1604	1834	2063	2292
		45/35/20°C (W)	284	425	567	709	851	993	1134	1276	1418
	Heat output static	55/45/20°C (W)	302	452	603	754	905	1056	1206	1357	1508
		45/35/20°C (W)	170	256	341	426	511	596	682	767	852
	Exponent n fan assisted	55/45/20°C	1,1878	1,1878	1,1878	1,1878	1,1878	1,1878	1,1878	1,1878	1,1878
		45/35/20°C	1,1327	1,1327	1,1327	1,1327	1,1327	1,1327	1,1327	1,1327	1,1327
	Exponent n static	55/45/20°C	1,3424	1,3424	1,3424	1,3424	1,3424	1,3424	1,3424	1,3424	1,3424
		45/35/20°C	1,3463	1,3463	1,3463	1,3463	1,3463	1,3463	1,3463	1,3463	1,3463
Weight (kg)		13,81	19,16	24,5	29,93	35,27	40,7	46,04	51,57	56,91	
Water content (l)		2,44	3,66	4,88	6,1	7,32	8,54	9,76	10,98	12,2	
600	Heat output fan assisted	55/45/20°C (W)	493	740	986	1233	1480	1726	1973	2219	2466
		45/35/20°C (W)	306	460	613	766	919	1072	1226	1379	1532
	Heat output static	55/45/20°C (W)	335	502	670	837	1004	1172	1339	1507	1674
		45/35/20°C (W)	192	287	383	479	575	671	766	862	958
	Exponent n fan assisted	55/45/20°C	1,1967	1,1967	1,1967	1,1967	1,1967	1,1967	1,1967	1,1967	1,1967
		45/35/20°C	1,1208	1,1208	1,1208	1,1208	1,1208	1,1208	1,1208	1,1208	1,1208
	Exponent n static	55/45/20°C	1,3545	1,3545	1,3545	1,3545	1,3545	1,3545	1,3545	1,3545	1,3545
		45/35/20°C	1,3110	1,3110	1,3110	1,3110	1,3110	1,3110	1,3110	1,3110	1,3110
Weight (kg)		15,24	21,22	27,2	33,26	39,24	45,31	51,28	57,45	63,43	
Water content (l)		2,84	4,26	5,68	7,1	8,52	9,94	11,36	12,78	14,2	
900	Heat output fan assisted	55/45/20°C (W)	602	903	1204	1505	1806	2107	2408	2709	3010
		45/35/20°C (W)	369	554	738	923	1108	1292	1477	1661	1846
	Heat output static	55/45/20°C (W)	445	667	890	1112	1334	1557	1779	2002	2224
		45/35/20°C (W)	252	377	503	629	755	881	1006	1132	1258
	Exponent n fan assisted	55/45/20°C	1,2441	1,2441	1,2441	1,2441	1,2441	1,2441	1,2441	1,2441	1,2441
		45/35/20°C	1,1548	1,1548	1,1548	1,1548	1,1548	1,1548	1,1548	1,1548	1,1548
	Exponent n static	55/45/20°C	1,3743	1,3743	1,3743	1,3743	1,3743	1,3743	1,3743	1,3743	1,3743
		45/35/20°C	1,3484	1,3484	1,3484	1,3484	1,3484	1,3484	1,3484	1,3484	1,3484
Weight (kg)		21,39	30,41	39,42	48,53	57,55	66,65	75,67	84,88	93,9	
Water content (l)		4,08	6,12	8,16	10,2	12,24	14,28	16,32	18,36	20,4	

Heat outputs according to EN 16430

Ulow-E | Technical Data Sheet

Product codes			
Length (mm)	Height (mm)		
	500	600	900
400	FMT2205004011000	FMT2206004011000	FMT2209004011000
600	FMT2205006011000	FMT2206006011000	FMT2209006011000
800	FMT2205008011000	FMT2206008011000	FMT2209008011000
1000	FMT2205010011000	FMT2206010011000	FMT2209010011000
1200	FMT2205012011000	FMT2206012011000	FMT2209012011000
1400	FMT2205014011000	FMT2206014011000	FMT2209014011000
1600	FMT2205016011000	FMT2206016011000	FMT2209016011000
1800	FMT2205018011000	FMT2206018011000	FMT2209018011000
2000	FMT2205020011000	FMT2206020011000	FMT2209020011000

Hydronic and electric connection

Connection from below (using the integrated valve set)

Side connection (external valve needed)

Positioning of the socket outlet

Visual	Description	Product code
	3/4" screw cap eurocone Required for side connection to seal the unused bottom connections; Set of two	AZ0PL000C0002000
	Valve insert M 30x1,5 mm Pre setting = 6	AZ1VE000V0001000
	Side panel For height = 500 mm For height = 600 mm For height = 900 mm	ACI220500001SP00 ACI220600001SP00 ACI220900001SP00
	Top grille For length = 400 mm For length = 600 mm For length = 800 mm For length = 1000 mm For length = 1200 mm For length = 1400 mm For length = 1600 mm For length = 1800 mm For length = 2000 mm	ACI220000401TG00 ACI220000601TG00 ACI220000801TG00 ACI220001001TG00 ACI220001201TG00 ACI220001401TG00 ACI220001601TG00 ACI220001801TG00 ACI220002001TG00
	Wall bracket Monclac Set of two MCA-D 500 – for height = 500 mm MCA-D 600 – for height = 600 mm MCA-D 900 – for height = 900 mm	AGR5BW5187224300 AGR5BW5187224400 AGR5BW5187224600



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