

versatile



**nZEB**  
RADIATOR FAMILY



versatile  
Enrich Your Space

”

## Enrich Your Space

Heating, Cooling & Ventilation, bathroom,  
and tiling solutions that add value to your  
project or home



# OUR VALUES

## PEOPLE

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We are a family-run business built on long lasting relationships. To create great experiences and be a positive influence, we ensure our customers, staff and partners are at the heart of every decision we make.

## SPECIALIST

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We care about the work that we do and are proud to be the trusted provider of innovative solutions. To adapt to our customers bespoke design requirements, our specialist team only work with world class manufacturers and small ranges of exclusive products.

## INSPIRING

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We give our time and knowledge to be at the forefront of innovation in design and technology. We understand that our products impact our customers daily, so we seek solutions to delight.

## SUSTAINABLE

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We care about the environment and continually pursue solutions for a better future. We invest in sustainable, energy saving products that lower CO2 emissions and contribute to green building certifications. We ensure that everyone in the whole chain of our product's life cycle is accountable.





# WHAT MAKES nZEB SUSTAINABLE?

**Sustainability does not just start when the product is in use, but from the sourcing of the materials and throughout the product life cycle. Being sustainable and reducing our impact on the environment is what we do.**

## HIGHEST EFFICIENCY RATINGS

Versatile's Low Water Content uses less energy than any other radiator and contains 90% less water than that of an equivalent steel panel, meaning faster response times and no wasteful overheating.

## BUILT TO LAST

The heat exchanger consists of aluminium heating fins, copper and brass irrigation tubes and brass collectors. Totally rust-free, resistant to very high working pressures and with a 30-year guarantee. A long life means lower environmental impact.

## EFFICIENT USE OF MATERIALS

Since copper and aluminium are such efficient heat conductors, only a relatively small quantity of these materials are required, this includes the casing. A Low Water Content radiator weighs much less and uses a lot less materials than a steel panel radiator.

## FULLY RECYCLABLE

Copper and aluminium are highly efficient, long-life materials, and crucially, they are always fully recyclable. The use of these materials contributes to an improved LCA score.

### DID YOU KNOW?

"Low Water Content radiators reduce the CO<sub>2</sub> emissions of an average house by about 1000 kg.





*“Low Water Content radiators reduce the CO<sub>2</sub> emissions of an average house by about 1000 kg.”*



**RESPECT  
NATURE**

**BEST LCA  
SCORE**

# Importance of LIFE CYCLE ANALYSIS SCORE

## VERSATILE LOW WATER CONTENT RADIATORS REDUCE WASTE

Life cycle analysis (LCA) according to the Ovam Ecolizer database and weight.  
Example for a 10 kW heating system, 45/35/20 temperature profile.

	underfloor heating	cast iron radiator	steel panel radiator	Versatile Low-H <sub>2</sub> O radiator
<b>LCA Score</b>	248700	248744	185853	66517
<b>Total weight incl. water (kg)</b>	6252	360	216.7	48.8

What is an LCA score?

LCA or 'Life Cycle Assessment' is a system designed to compare products and their overall impact on the environment. This looks at all processes from design, materials sourced, manufacturing, energy usage until the product is ultimately 'retired'. Governments are trying to standardise LCA systems and to integrate them into the legislation. Versatile uses Ovam's Ecolizer 2.0 based on the Eco-Indicator EI-99 database. The lower the LCA score, the less adverse impact on the environment. Low Water Content radiators score significantly better than other radiators or heating systems.



# LOW WATER CONTENT: LIGHTER, FASTER AND EFFICIENT

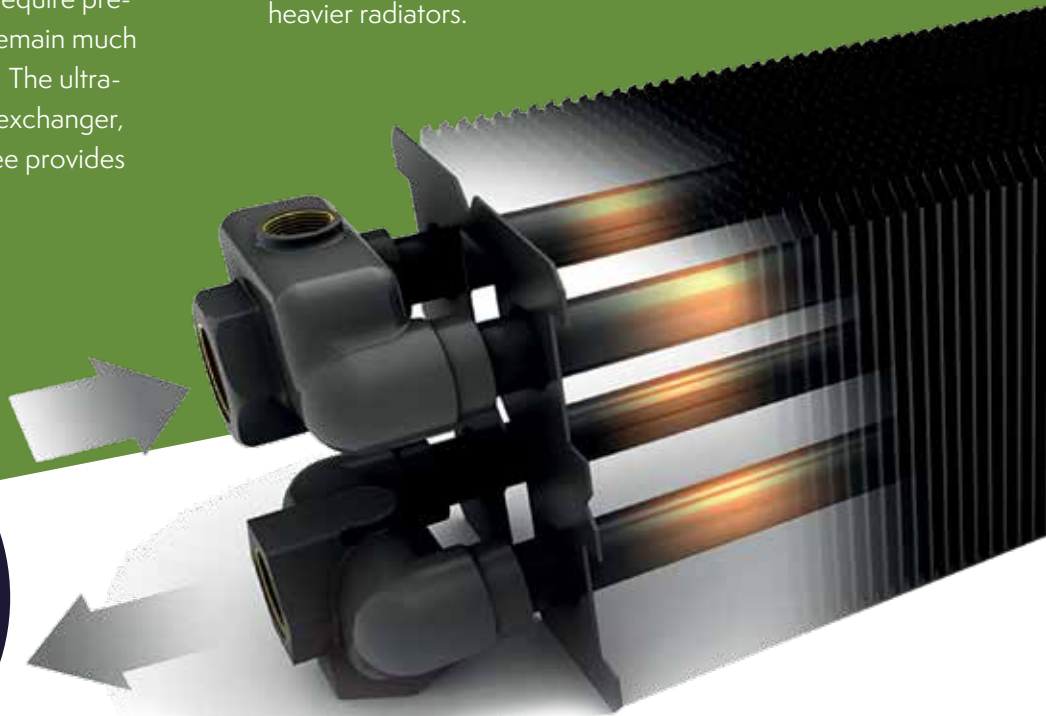
## THE LOW WATER CONTENT RADIATOR

Versatile's Water Content at up and cool down. This means Low Water Content radiators react faster to the occupants' needs as well as changes to ambient temperature. This ensures better comfort with less energy consumption, no wasteful over-heating and reduced demand on the heating system itself. They also have no heavy steel panels that require pre-heating, are far lighter to install and remain much lighter when fully filled during usage. The ultra-modern aluminium and copper heat exchanger, which comes with a 30 year guarantee provides

rapid energy efficient heat to any space.

Research by KIWA show that Low Water Content radiators consume between 9 and 16%\* less energy than a system with steel panel radiators. They achieve the desired temperature faster with less heat wasted through unnecessary over-heating, common in heavier radiators.

THERE IS A CLEAR  
CONNECTION  
BETWEEN THE WEIGHT  
OF THE RADIATOR, ITS  
REACTION TIME AND  
THE ENERGY SAVINGS  
IT OFFERS.



### COMPARISON LOW WATER CONTENT /PANEL RADIATORS

	Water temp. > 50°C Saving	Water temp. ≤ 50°C Saving
Renovation	13%	16%
New Builds	9%	10%

FASTEST  
RESPONSE TIME  
FOR MAXIMUM  
COMFORT



Scientific and Technical Centre for  
the Construction Company  
Brussels, 1981



Technical University  
Eindhoven, 2001



Kiwa Certification  
Apeldoorn, 2014



Thermic Regulation  
France, 2012



Building Research  
Establishment - UK  
Watford, 2003

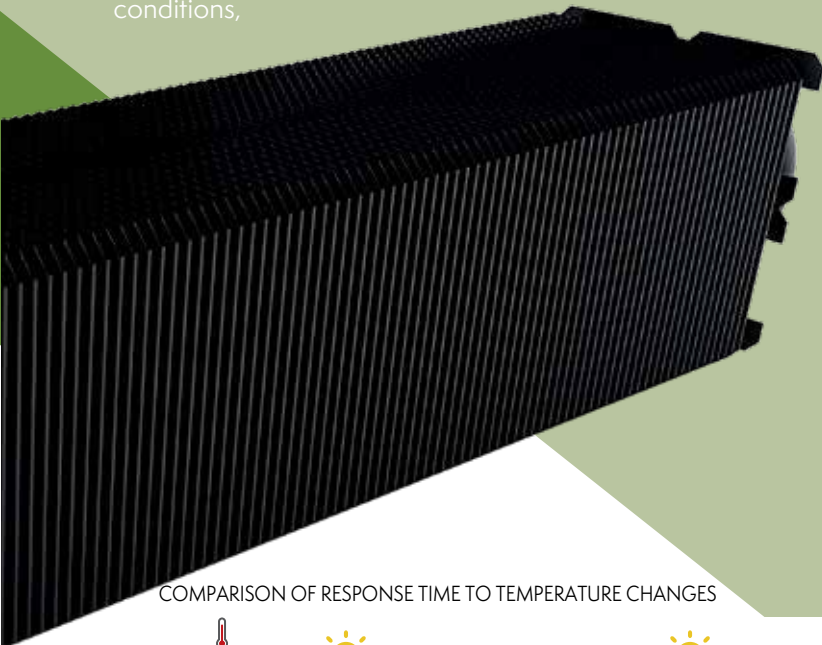
## PROVEN TO BE THE WORLD'S MOST ECONOMICAL RADIATOR

Versatile's Low Water Content technology has been thoroughly tested over the years by a variety of independent bodies, receiving the title of Most Economical Radiator following tests carried out by the Dutch testing body KIWA. Versatile's Low Water Content radiator achieves consistently high efficiency performance standards every time.

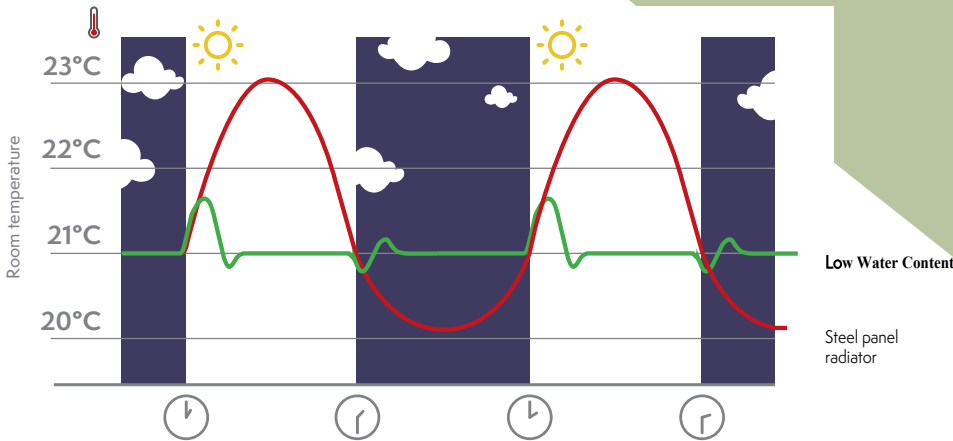
Low Water Content radiators are more efficient at all water temperatures, making them the perfect partner for renewable systems and boilers alike. In all conditions,

Low Water Content radiators achieve the maximum scores set by ISSO. Without a maximum score\*, the Low Water Content exchanger would achieve even higher. KIWA found Low Water Content to be at least 5% more economical than underfloor heating.

\*The minimum required score is 1.00 (100%) for Low Water Content as per the quality declaration, and average score of 0.05 (95%) for underfloor heating, according to NEN7120, Table 14.1, delivery efficiency up to 8m.



COMPARISON OF RESPONSE TIME TO TEMPERATURE CHANGES



## WATER CONTENT SAVINGS

Dimensions (in mm)

	Output	Length	Height	Depth	Water	Operating	Pressure Drop
<b>Target 1.0kW at 45/35/200C</b>							
Steel Double Panel + Fin	1010	1700	780	92	16.55	123	81
Maxi 2020 WT	1027	1830	740	230	3.5	76	35
Maxi 2020 WT DBH	1100	1030	740	1800	1.9	43	18

# DBH: DOUBLE OUTPUTS + COOLING WITH HEAT PUMPS

## ONE ECO FRIENDLY SOLUTION

Heat pumps and solar thermal energy generally require much larger radiators as they operate with very low water temperatures that often don't exceed 35°C. Low Water Content radiators do not need to increase in size when working with lower water temperatures.

With Dynamic Boost Hybrid (DBH) technology, the same heat output can be achieved from a similar size radiator compared to a radiator working with a gas or oil-fired heating system, allowing the installation of renewable heating systems without compromising on comfort and aesthetics.

- Efficient and effortless heating with heat pumps and low temperature boilers.
- Suitable for environmentally friendly light cooling (non-condensing) in combination with any heat pump that can supply cooling water.
- Easy installation on almost all new and existing Versatile Low Water Content heating units.



THE SAME  
OUTPUT AT  
ALMOST HALF  
THE SIZE OF A  
STEEL PANEL  
RADIATOR

nZEB Hybrid T11  
Size: 50 cm x 100 cm  
Output: 1173 Watts\*  
Weight: 16.7 kg  
Water content: 1.3 litres

\* maximum heat capacity

Steel Panel Heater  
Size: 70 cm x 180 cm  
Output: 1210 Watts  
Weight: 73 kg  
Water content: 13.7 litres

Based on conditions of  
45/40/20



## INTELLIGENT OPERATION

DBH has a simple control panel to adjust settings and modes, with automatically dimming coloured LED lights to indicate the selected setting.

There are three alternative configurations set at time of order: TPT (Temperature control) (default), ACO (Auto-changeover), BMS (Building Management System control).

**TPT configuration (default): mode button can be used to switch between Heating and Cooling modes.**

- Thermal activators run once the water temperature is above set-point (28°C default) and the measured room temperature is below the set-point, speeding up and slowing to achieve the desired room temperature.
- Boost mode can be activated where thermal activators run at max. speed for 15 minutes.

**ACO configuration: mode button can be used to switch between Heating, Cooling and Breeze modes.**

- Thermal activators run based on water temperature and chosen fixed speed.
- Breeze mode can be selected whereby the thermal activators operate independently of water temperature.

**BMS configuration:**

- DBH can be connected to an external controller, such as BMS or room thermostat to control thermal activator speed and changeover remotely. Please contact Versatile's technical team for more information.

## FAQs

### WHAT IS Versatile LIGHT COOLING ?

Light cooling (also referred to as 'non-condensing cooling') is a form of gentle cooling whereby the water temperature is always higher than the condensing temperature (or dew point), usually around 15°C depending on weather conditions, and therefore no condensation water is formed. This is an energy-efficient way of cooling that's ideal in combination with low temperature heating.

### HOW MUCH ENERGY DOES LIGHT COOLING USE ?

The energy consumption is lower than with low temperature cooling systems such as air conditioning systems, especially in combination with a ground source heat pump.

# MINI FREE STANDING RADIATOR + DBE

Designed to fit unobtrusively underneath large windows for perimeter heating where sub-floor heating is not possible. The Mini Freestanding provides maximum heat from the smallest of appliances. Using Low Water Content technology the heat exchanger and casing are supplied fully assembled in one piece for easy installation.

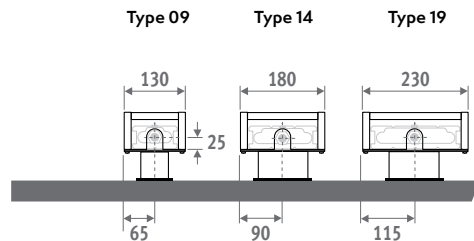
**versatile**  
Enrich Your Space

# MINI FREE STANDING

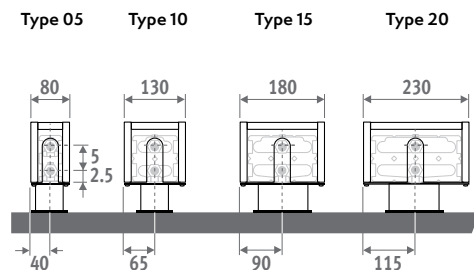
Dimensions (in mm)



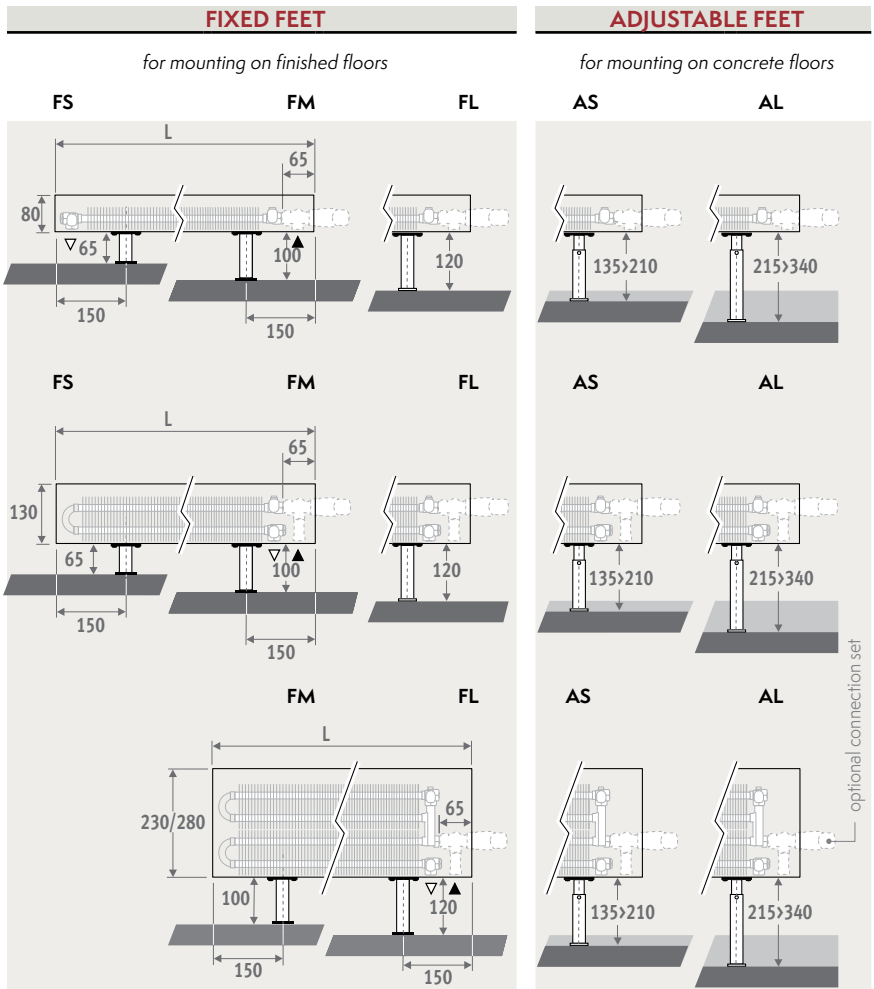
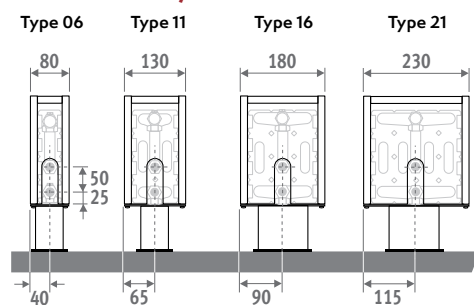
## HEIGHT 008



## HEIGHT 013



## HEIGHT 023 / 028



### ORDERING CODE

#### FIXED FEET

code height length type colour foot  
**MINF .008 060 09 .XXX /XX**

fill in colour code

FS: fixed feet, height 65 mm (only for height 008 and 013)  
 FM: fixed feet, height 100 mm  
 FL: fixed feet, height 102 mm

### ORDERING CODE

#### ADJUSTABLE FEET

code height length type colour foot  
**MINF .008 060 09 .XXX /XX**

fill in colour code

AS: adjustable feet, height from 135 to 210 mm  
 AL: adjustable feet, height from 215 to 340 mm

### DELIVERY

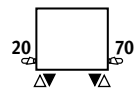
Product is made to order, please contact our customer service team on 046 902 9444 to discuss your requirements.

### COLOURS

Environmentally friendly, scratch-resistant, high UV resistant powder coating.  
 Standard colours:  
 - Traffic white RAL 9016 (133), soft touch lightly structured satin lacquer  
 - Sandblast grey (001), fine texture metallic lacquer  
 Other colours: see colour chart.

### CONNECTION

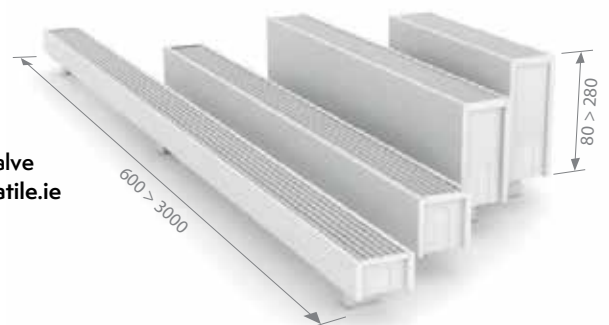
Standard connection:  
 Height 008: opposite end connection, flow left or right  
 Other heights: same end connection, left or right connection



It is not possible to connect to the wall from inside the casing, as the casing includes a closed rear panel.

Also available as Mini wall mounted model for low window sills and dwarf walls.

Pipe centres vary depending on valve connections. Contact [sales@versatile.ie](mailto:sales@versatile.ie) for pipe centre dimensions.



## STRIKINGLY DISCREET

For spaces with large windows, glazed facades, for window displays, conservatories, under window seats and for dwarf walls.

Discreet appearance with heights from 8cm

No wasteful heat loss from radiation through glazing

Stable one-piece casing

Suitable for integrated valve



## FIXED FEET - OUTPUT TABLES

MINI.F.HHH LLL TT.XXX/XX

L mm	HEIGHT 80			HEIGHT 130			HEIGHT 230			HEIGHT 280		
	Type	Watts 75/65	Watts 55/45	Type	Watts 75/65	Watts 55/45	Type	Watts 75/65	Watts 55/45	Type	Watts 75/65	Watts 55/45
600	N/A	N/A	N/A	05	197	96	06	323	157	06	342	167
	09	255	124	10	303	147	11	601	288	11	653	313
	14	416	202	15	508	246	16	785	374	16	860	409
	19	572	277	20	717	348	21	1021	484	21	1127	533
	N/A	N/A	N/A	05	230	112	06	377	183	06	399	195
700	09	298	144	10	354	171	11	701	336	11	762	365
	14	486	236	15	593	288	16	916	436	16	1003	477
	19	667	323	20	837	406	21	1191	564	21	1315	622
	N/A	N/A	N/A	05	263	128	06	431	210	06	456	223
	09	340	165	10	404	196	11	802	384	11	871	417
800	14	555	269	15	678	329	16	1046	498	16	1146	545
	19	762	369	20	956	464	21	1361	645	21	1503	710
	N/A	N/A	N/A	05	296	144	06	485	236	06	513	251
	09	383	186	10	455	220	11	902	432	11	980	469
	14	625	303	15	762	370	16	1177	560	16	1290	613
900	19	858	416	20	1076	522	21	1531	725	21	1691	799
	N/A	N/A	N/A	05	329	160	06	539	262	06	570	278
	09	425	206	10	505	245	11	1002	480	11	1089	522
	14	694	336	15	847	411	16	1308	623	16	1433	681
	19	953	462	20	1195	580	21	1701	806	21	1879	888
1100	N/A	N/A	N/A	05	362	176	06	593	288	06	627	306
	09	468	227	10	556	269	11	1102	528	11	1198	574
	14	763	370	15	932	452	16	1439	685	16	1576	749
	19	1048	508	20	1315	638	21	1871	886	21	2067	977
	N/A	N/A	N/A	05	395	192	06	647	315	06	684	334
1200	09	510	247	10	606	294	11	1202	576	11	1307	626
	14	833	404	15	1016	493	16	1570	747	16	1720	818
	19	1144	554	20	1434	696	21	2041	967	21	2255	1066
	N/A	N/A	N/A	05	461	224	06	755	367	06	798	390
	09	595	288	10	707	342	11	1403	672	11	1525	730
1400	14	972	471	15	1186	575	16	1831	872	16	2006	954
	19	1334	647	20	1673	812	21	2381	1128	21	2631	1244
	N/A	N/A	N/A	05	526	256	06	862	419	06	912	445
	09	680	330	10	808	391	11	1603	768	11	1742	834
	14	1110	538	15	1355	657	16	2093	996	16	2293	1090
1600	19	1525	739	20	1912	928	21	2722	1289	21	3006	1421
	N/A	N/A	N/A	05	592	288	06	970	472	06	1026	501
	09	765	371	10	909	440	11	1804	864	11	1960	939
	14	1249	605	15	1525	740	16	2354	1121	16	2579	1226
	19	1715	831	20	2151	1044	21	3062	1450	21	3382	1599
1800	N/A	N/A	N/A	05	658	320	06	1078	524	06	1140	557
	09	850	412	10	1010	489	11	2004	960	11	2178	1043
	14	1388	673	15	1694	822	16	2616	1245	16	2866	1363
	19	1906	924	20	2390	1159	21	3402	1611	21	3758	1776
	N/A	N/A	N/A	05	724	352	06	1186	577	06	1254	612
2000	09	935	453	10	1111	538	11	2204	1056	11	2396	1148
	14	1527	740	15	1863	904	16	2878	1370	16	3153	1499
	19	2097	1016	20	2629	1275	21	3742	1772	21	4134	1954
	N/A	N/A	N/A	05	790	384	06	1294	629	06	1368	668
	09	1020	494	10	1212	587	11	2405	1152	11	2614	1252
2200	14	1666	807	15	2033	986	16	3139	1494	16	3439	1635
	19	2287	1108	20	2868	1391	21	4082	1933	21	4510	2132
	N/A	N/A	N/A	05	855	415	06	1401	681	06	1482	724
	09	1105	536	10	1313	636	11	2605	1248	11	2831	1356
	14	1804	874	15	2202	1068	16	3401	1619	16	3726	1772
2400	19	2478	1201	20	3107	1507	21	4423	2095	21	4885	2309
	N/A	N/A	N/A	05	855	415	06	1401	681	06	1482	724
	09	1105	536	10	1313	636	11	2605	1248	11	2831	1356
	14	1804	874	15	2202	1068	16	3401	1619	16	3726	1772
	19	2478	1201	20	3107	1507	21	4423	2095	21	4885	2309

EN442 output at 20°C room temperature

Mini freestanding model is also available in lengths 2800 and 3000 mm.

# ADJUSTABLE FEET - OUTPUT TABLES

MINF.HHH LLL TT.XXX/XX

L mm	HEIGHT 80			HEIGHT 130			HEIGHT 230			HEIGHT 280		
	Type	Watts 75/65	Watts 55/45	Type	Watts 75/65	Watts 55/45	Type	Watts 75/65	Watts 55/45	Type	Watts 75/65	Watts 55/45
600	N/A	N/A	N/A	05	197	96	06	323	157	06	342	167
	09	255	124	10	303	147	11	601	288	11	653	313
	14	416	202	15	508	246	16	785	374	16	860	409
	19	572	277	20	717	348	21	1021	484	21	1127	533
700	N/A	N/A	N/A	05	230	112	06	377	183	06	399	195
	09	298	144	10	354	171	11	701	336	11	762	365
	14	486	236	15	593	288	16	916	436	16	1003	477
	19	667	323	20	837	406	21	1191	564	21	1315	622
800	N/A	N/A	N/A	05	263	128	06	431	210	06	456	223
	09	340	165	10	404	196	11	802	384	11	871	417
	14	555	269	15	678	329	16	1046	498	16	1146	545
	19	762	369	20	956	464	21	1361	645	21	1503	710
900	N/A	N/A	N/A	05	296	144	06	485	236	06	513	251
	09	383	186	10	455	220	11	902	432	11	980	469
	14	625	303	15	762	370	16	1177	560	16	1290	613
	19	858	416	20	1076	522	21	1531	725	21	1691	799
1000	N/A	N/A	N/A	05	329	160	06	539	262	06	570	278
	09	425	206	10	505	245	11	1002	480	11	1089	522
	14	694	336	15	847	411	16	1308	623	16	1433	681
	19	953	462	20	1195	580	21	1701	806	21	1879	888
1100	N/A	N/A	N/A	05	362	176	06	593	288	06	627	306
	09	468	227	10	556	269	11	1102	528	11	1198	574
	14	763	370	15	932	452	16	1439	685	16	1576	749
	19	1048	508	20	1315	638	21	1871	886	21	2067	977
1200	N/A	N/A	N/A	05	395	192	06	647	315	06	684	334
	09	510	247	10	606	294	11	1202	576	11	1307	626
	14	833	404	15	1016	493	16	1570	747	16	1720	818
	19	1144	554	20	1434	696	21	2041	967	21	2255	1066
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	14	972	471	15	1186	575	16	1831	872	16	2006	954
	19	1334	647	20	1673	812	21	2381	1128	21	2631	1244
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	09	680	330	10	808	391	11	1603	768	11	1742	834
	14	1110	538	15	1355	657	16	2093	996	16	2293	1090
	19	1525	739	20	1912	928	21	2722	1289	21	3006	1421
1800	N/A	N/A	N/A	05	592	288	06	970	472	06	1026	501
	09	765	371	10	909	440	11	1804	864	11	1960	939
	14	1249	605	15	1525	740	16	2354	1121	16	2579	1226
	19	1715	831	20	2151	1044	21	3062	1450	21	3382	1599
2000	N/A	N/A	N/A	05	658	320	06	1078	524	06	1140	557
	09	850	412	10	1010	489	11	2004	960	11	2178	1043
	14	1388	673	15	1694	822	16	2616	1245	16	2866	1363
	19	1906	924	20	2390	1159	21	3402	1611	21	3758	1776
2200	N/A	N/A	N/A	05	724	352	06	1186	577	06	1254	612
	09	935	453	10	1111	538	11	2204	1056	11	2396	1148
	14	1527	740	15	1863	904	16	2878	1370	16	3153	1499
	19	2097	1016	20	2629	1275	21	3742	1772	21	4134	1954
2400	N/A	N/A	N/A	05	790	384	06	1294	629	06	1368	668
	09	1020	494	10	1212	587	11	2405	1152	11	2614	1252
	14	1666	807	15	2033	986	16	3139	1494	16	3439	1635
	19	2287	1108	20	2868	1391	21	4082	1933	21	4510	2132
2600	N/A	N/A	N/A	05	855	415	06	1401	681	06	1482	724
	09	1105	536	10	1313	636	11	2605	1248	11	2831	1356
	14	1804	874	15	2202	1068	16	3401	1619	16	3726	1772
	19	2478	1201	20	3107	1507	21	4423	2095	21	4885	2309

Mini freestanding model is also available in lengths 2800 and 3000 mm.

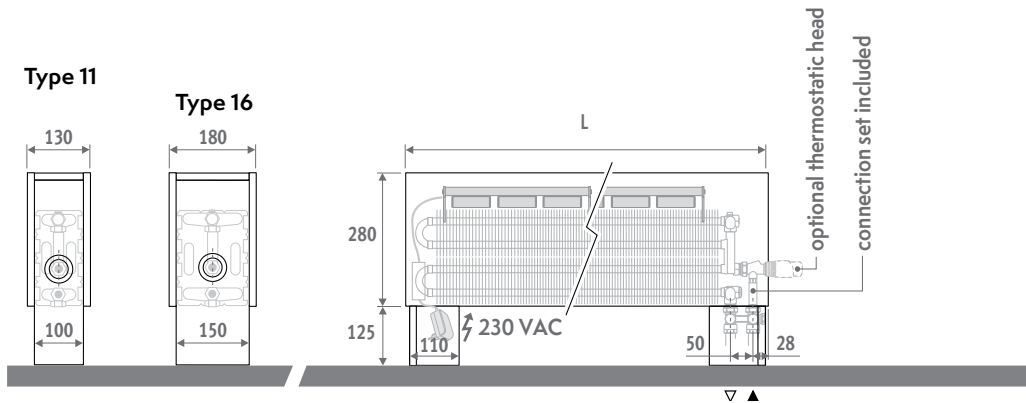
EN442 output at 20°C room temperature





# MINI FREESTANDING DBE

Dimensions (in mm)



**ORDERING CODE**

code height length type colour  
**MINF.028 081 11 .XXX /DS/DBE/...**

fill in colour code  
 fill in sleeve coupling code

Precision metal tube 14/1 **114**  
 precision metal tube 15/1 **115**  
 precision metal tube 16/1 **116**  
 RPE/ALU tube 16/2 **316**

(other sleeve couplings:  
 see "Connection sets and Valves")

**COLOURS**  
 Environmentally friendly, scratch-resistant, high UV resistant powder coating.

**STANDARD COLOURS:**  
 Traffic white RAL 9016 (133), soft touch lightly structured satin lacquer  
 sandblast grey (001), fine texture metallic lacquer  
 Other colours: see colour chart.

**OPTIONS**

**THERMOSTATIC HEADS**

AC JW JS

CODE	colour	
5090.1151	chrome	AC
5090.1150	white	AW
5090.1125	white	JW
5090.1152	silver	JS

**DELIVERY**  
 Product is made to order, please contact our customer service team on 046 902 9444 to discuss your requirements.

Valves included

## HEIGHT 280 - OUTPUT TABLES

MINF.028 LLL TT.XXX/DS/DBE/...

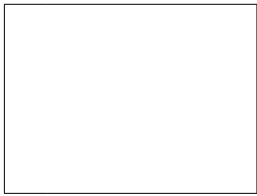
L mm	STANDBY*		COMFORT			
	Type	Watts 75/65	Watts 55/45	Watts 75/65	Watts 55/45	Watts 35/30
810	11	871	417	1171	703	293
	16	1146	549	1626	976	407
1010	11	1089	522	1689	1013	422
	16	1433	686	2393	1436	598
1210	11	1307	626	1907	1144	477
	16	1720	824	2680	1608	670
1410	11	1525	730	2425	1455	606
	16	2006	961	3446	2068	862
1810	11	1960	939	3160	1896	790
	16	2579	1235	4499	2699	1125
2410	11	2614	1252	4414	2648	1104
	16	3439	1647	6319	3791	1580

EN442 output at 20°C room temperature

\* Stand-by is the static output if the activators are not working. Transition from Stand-by to Comfort is effected automatically in accordance with the thermal need.



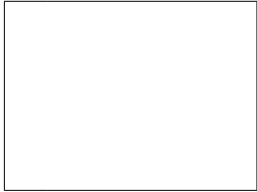
# COLOUR CHART



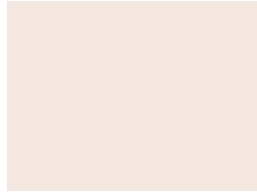
233 Traffic white RAL 9016

Maxi 2020 is available in a smooth glossy finish in the following colours.

Varsatile has two environmentally friendly electrostatic powder coating lines with recuperation and without the use of solvents. After a thorough pre-treatment, the radiators are painted and baked at a temperature of approximately 200°C. This ensures a highly UV and scratch resistant finish.



201 White RAL 9010



205 Pergamon



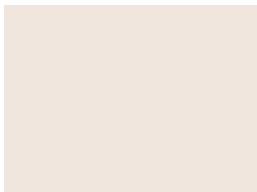
223 Natural



212 Bahama



234 Warm brown RAL 070 60 10



202 Off-white RAL 9001



235 Traffic yellow RAL 1023



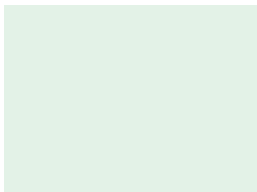
236 Orange



211 Flaming Red RAL 3000



226 Ruby red RAL 3003



220 Aegean



237 Yellow green RAL 110 80 60



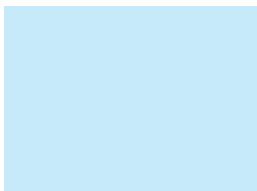
238 Green



221 Calypso



213 English green RAL 6009



239 Azure



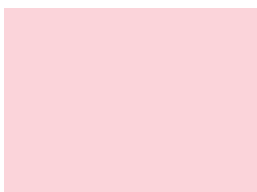
240 Ocean blue RAL 230 70 30



208 Sapphire blue RAL 5003



241 Night blue RAL 5011



242 Pink



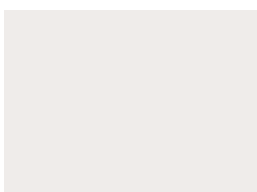
243 Magenta RAL 010 50 50



219 Violet RAL 4008



244 Purple



228 Classic white



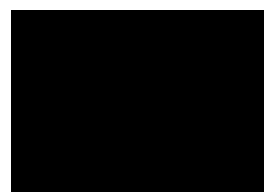
203 Light grey RAL 7035



209 Dark grey RAL 7011



231 Anthracite grey RAL 7016



204 Black RAL 9005

# SPECIAL COLOURS

## SMOOTH METALLICS



006 Aluminium RAL 9006



049 Anodic grey



005 Gunmetal grey



007 Anthracite



051 Yellow gold



050 Old gold

## FINE TEXTURE METALLICS



035 Silver grey



036 Warm grey



045 Concrete grey



001 Sandblast grey



018 Pearl black



037 Cream



039 Grey brown



038 Cappuccino

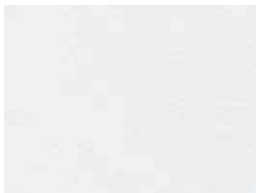


042 Chocolate



017 Pearl brown

## FINE TEXTURE



053 Pure white



026 Platinum grey



028 Granite grey



046 Graphite black



040 Copper



041 Cinnamon



043 Khaki



044 Navy blue

This colour chart is only indicative. It's impossible to obtain a 100% exact colour reproduction in printing. A colour chart can be obtained on request.

# LOW WATER CONTENT CORRECTION FACTORS

**AVERAGE CORRECTION FACTORS  
ACCORDING TO EN442 - 75/65/20°C**

Tv	Tl	Tr	25	30	35	40	45	50	55	60	65	70	75	80	85
90	18		0.45	0.58	0.69	0.79	0.89	0.98	1.07	1.16	1.24	1.34	1.41	1.49	1.56
	20		0.38	0.52	0.63	0.74	0.83	0.92	1.01	1.10	1.18	1.28	1.35	1.43	1.50
	22		0.30	0.46	0.57	0.68	0.78	0.87	0.96	1.04	1.13	1.22	1.30	1.37	1.44
	24		0.20	0.39	0.52	0.62	0.72	0.81	0.90	0.99	1.07	1.15	1.24	1.31	1.38
85	18		0.42	0.54	0.65	0.75	0.84	0.93	1.01	1.10	1.20	1.27	1.34	1.41	
	20		0.36	0.49	0.59	0.69	0.79	0.87	0.96	1.04	1.12	1.21	1.28	1.35	
	22		0.28	0.42	0.54	0.64	0.73	0.82	0.90	0.99	1.06	1.15	1.22	1.30	
	24		0.19	0.36	0.48	0.58	0.68	0.76	0.85	0.93	1.01	1.10	1.17	1.24	
80	18		0.39	0.51	0.61	0.70	0.79	0.88	0.96	1.04	1.12	1.20	1.27		
	20		0.33	0.45	0.56	0.65	0.74	0.82	0.90	0.98	1.07	1.14	1.21		
	22		0.26	0.39	0.50	0.60	0.68	0.77	0.85	0.93	1.01	1.08	1.15		
	24		0.17	0.34	0.45	0.54	0.63	0.72	0.80	0.87	0.96	1.03	1.10		
75	18		0.37	0.47	0.57	0.66	0.74	0.82	0.90	0.99	1.05	1.12			
	20		0.30	0.42	0.52	0.61	0.69	0.77	0.85	0.93	1.00	1.07			
	22		0.24	0.36	0.46	0.55	0.64	0.72	0.79	0.88	0.95	1.01			
	24		0.16	0.31	0.41	0.50	0.59	0.67	0.74	0.83	0.89	0.96			
70	18		0.34	0.44	0.53	0.61	0.69	0.77	0.85	0.92	0.99				
	20		0.28	0.39	0.48	0.56	0.64	0.72	0.80	0.87	0.93				
	22		0.22	0.33	0.43	0.51	0.59	0.67	0.74	0.81	0.88				
	24		0.14	0.28	0.38	0.46	0.54	0.62	0.69	0.76	0.83				
65	18		0.31	0.40	0.49	0.57	0.64	0.71	0.79	0.85					
	20		0.25	0.35	0.44	0.52	0.59	0.66	0.74	0.80					
	22		0.19	0.30	0.39	0.47	0.54	0.61	0.69	0.75					
	24		0.12	0.25	0.34	0.42	0.50	0.57	0.64	0.70					
60	18		0.28	0.37	0.45	0.52	0.59	0.66	0.73						
	20		0.23	0.32	0.40	0.47	0.54	0.62	0.68						
	22		0.17	0.27	0.35	0.43	0.50	0.57	0.63						
	24		0.11	0.23	0.31	0.38	0.45	0.52	0.58						
55	18		0.25	0.33	0.40	0.47	0.55	0.60							
	20		0.20	0.29	0.36	0.43	0.50	0.56							
	22		0.15	0.24	0.32	0.38	0.45	0.51							
	24		0.09	0.20	0.27	0.34	0.40	0.47							
50	18		0.22	0.30	0.36	0.43	0.49								
	20		0.18	0.25	0.32	0.38	0.44								
	22		0.13	0.21	0.28	0.34	0.40								
	24		0.08	0.17	0.24	0.30	0.36								
45	18		0.19	0.26	0.32	0.38									
	20		0.15	0.22	0.28	0.34									
	22		0.11	0.18	0.24	0.30									
	24		0.06	0.14	0.20	0.26									
40	18		0.16	0.22	0.28										
	20		0.12	0.18	0.24										
	22		0.09	0.15	0.20										
	24		0.05	0.12	0.17										
35	18		0.13	0.19											
	20		0.10	0.15											
	22		0.07	0.12											
	24		0.03	0.09											
30	18		0.10												
	20		0.07												
	22		0.04												
	24		0.02												

*The indicated outputs with  $\Delta T$  50 are the exact outputs, measured in accordance with EN442. An average correction factor is given in this table for all other  $\Delta T$  outputs, applicable for all dimensions. These correction factors are to be used for guidance only.*

# LOW WATER CONTENT HYBRID - CORRECTION FACTORS

**AVERAGE CORRECTION FACTORS  
ACCORDING TO EN442 - 75/65/20°C**

Tv	Tl	Tr	25	30	35	40	45	50	55	60	65	70	75	80	85
90	18		0.53	0.64	0.74	0.83	0.91	0.99	1.06	1.13	1.19	1.27	1.32	1.38	1.44
	20		0.46	0.59	0.69	0.78	0.86	0.94	1.01	1.08	1.15	1.22	1.28	1.33	1.39
	22		0.38	0.53	0.64	0.73	0.81	0.89	0.97	1.03	1.10	1.18	1.23	1.29	1.35
	24		0.28	0.47	0.58	0.68	0.77	0.85	0.92	0.99	1.06	1.12	1.19	1.24	1.30
85	18		0.50	0.61	0.71	0.79	0.87	0.94	1.01	1.08	1.16	1.21	1.27	1.32	
	20		0.43	0.56	0.66	0.74	0.82	0.90	0.97	1.03	1.10	1.17	1.22	1.28	
	22		0.36	0.50	0.61	0.70	0.78	0.85	0.92	0.99	1.05	1.12	1.18	1.23	
	24		0.26	0.44	0.55	0.65	0.73	0.80	0.88	0.94	1.01	1.08	1.13	1.19	
80	18		0.47	0.58	0.67	0.75	0.83	0.90	0.97	1.03	1.10	1.16	1.21		
	20		0.41	0.53	0.62	0.71	0.78	0.85	0.92	0.99	1.06	1.11	1.17		
	22		0.34	0.47	0.57	0.66	0.74	0.81	0.88	0.94	1.01	1.07	1.12		
	24		0.24	0.41	0.52	0.61	0.69	0.76	0.83	0.90	0.97	1.02	1.08		
75	18		0.44	0.55	0.63	0.71	0.79	0.85	0.92	0.99	1.04	1.10			
	20		0.38	0.50	0.59	0.67	0.74	0.81	0.87	0.95	1.00	1.06			
	22		0.31	0.44	0.54	0.62	0.70	0.76	0.83	0.90	0.96	1.01			
	24		0.22	0.39	0.49	0.57	0.65	0.72	0.79	0.86	0.91	0.97			
70	18		0.41	0.51	0.60	0.67	0.74	0.81	0.88	0.93	0.99				
	20		0.36	0.46	0.55	0.63	0.70	0.76	0.84	0.89	0.95				
	22		0.29	0.41	0.50	0.58	0.65	0.72	0.78	0.85	0.90				
	24		0.20	0.36	0.46	0.54	0.61	0.68	0.74	0.80	0.86				
65	18		0.39	0.48	0.56	0.63	0.70	0.76	0.83	0.88					
	20		0.33	0.43	0.51	0.59	0.65	0.72	0.78	0.84					
	22		0.27	0.38	0.47	0.54	0.61	0.67	0.74	0.79					
	24		0.18	0.33	0.42	0.50	0.57	0.63	0.70	0.75					
60	18		0.36	0.44	0.52	0.59	0.65	0.72	0.77						
	20		0.30	0.40	0.48	0.55	0.61	0.68	0.73						
	22		0.24	0.35	0.43	0.50	0.57	0.63	0.69						
	24		0.17	0.30	0.39	0.46	0.52	0.59	0.64						
55	18		0.33	0.41	0.48	0.55	0.61	0.66							
	20		0.27	0.36	0.44	0.50	0.57	0.62							
	22		0.22	0.32	0.39	0.46	0.52	0.58							
	24		0.15	0.27	0.35	0.42	0.48	0.54							
50	18		0.29	0.37	0.44	0.50	0.56								
	20		0.25	0.33	0.40	0.46	0.52								
	22		0.19	0.28	0.36	0.42	0.48								
	24		0.13	0.24	0.31	0.38	0.44								
45	18		0.26	0.33	0.40	0.46									
	20		0.22	0.29	0.36	0.42									
	22		0.17	0.25	0.32	0.38									
	24		0.11	0.21	0.28	0.33									
40	18		0.23	0.30	0.35										
	20		0.19	0.25	0.32										
	22		0.14	0.21											
	24		0.09	0.17											
35	18		0.19	0.26											
	20		0.15	0.21											
	22		0.11	0.18											
	24		0.07	0.14											
30	18		0.16												
	20		0.12												
	22		0.08												
	24		0.04												

*The indicated outputs with  $\Delta T$  50 are the exact outputs, measured in accordance with EN 442. An average correction factor is given in this table for all other  $\Delta T$  outputs, applicable for all dimensions. These correction factors are to be used for guidance only.*

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