



Versatile
Enrich Your Space

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



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OUR VALUES

PEOPLE

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

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

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

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-H₂O 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

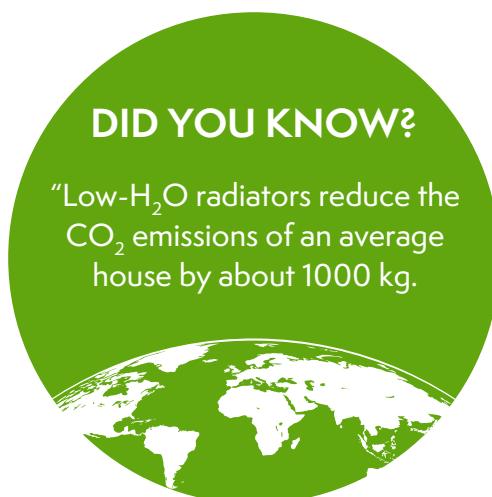
Since copper and aluminium are such efficient heat conductors, only a relatively small quantity of these materials are required, this includes the casing. A Low-H₂O radiator weighs much less and uses a lot less materials than a steel panel radiator.

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-H₂O radiators reduce the CO₂ emissions of an average house by about 1000 kg.





"Low-H₂O radiators reduce the CO₂ emissions of an average house by about 1000 kg."



BEST LCA
SCORE

Importance of LIFE CYCLE ANALYSIS SCORE

VERSATILE LOW-H₂O 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 ₂ O radiator
LCA Score	248700	248744	185853	66517
Total weight incl. water (kg)	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 Ecoliser 2.0 based on the Eco-Indicator EI-99 database. The lower the LCA score, the less adverse impact on the environment. Low-H₂O radiators score significantly better than other radiators or heating systems.



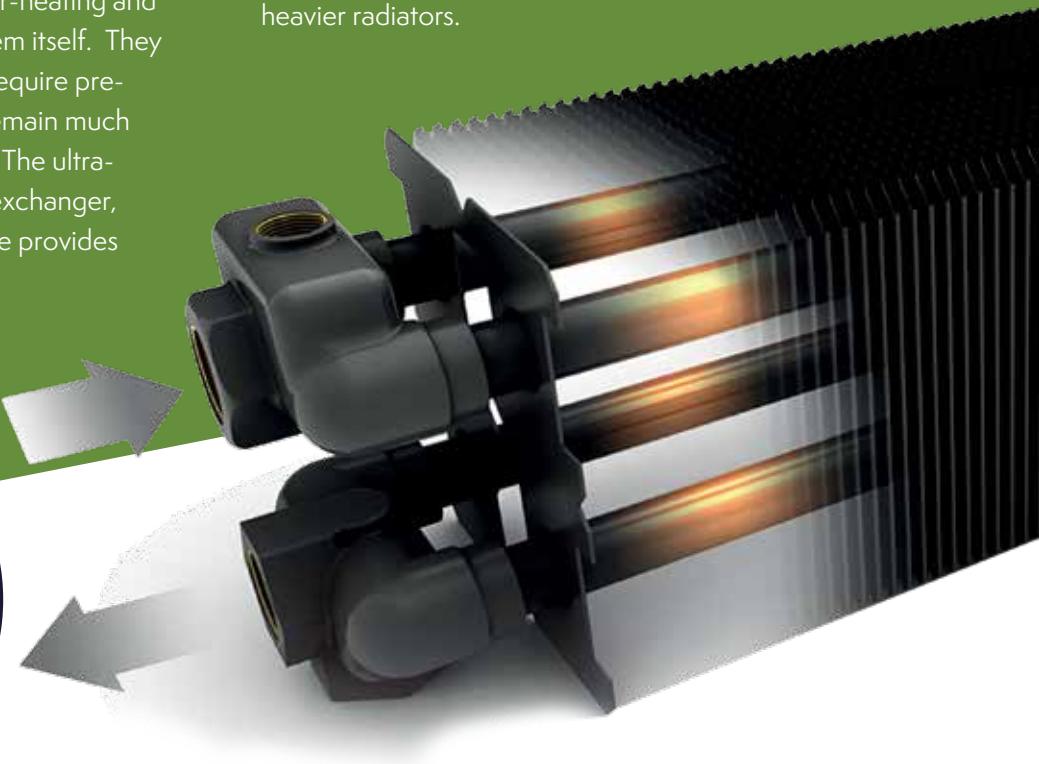
LOW-H₂O: LIGHTER, FASTER AND EFFICIENT

THE LOW WATER CONTENT RADIATOR

Versatile's Low-H₂O radiators contain 90% less water than that of a steel panel radiator, meaning they are faster to heat up and cool down. This means Low-H₂O 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-H₂O 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-H₂O/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

PROVEN TO BE THE WORLD'S MOST ECONOMICAL RADIATOR

Versatile's Low-H₂O 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-H₂O radiator achieves consistently high efficiency performance standards every time.

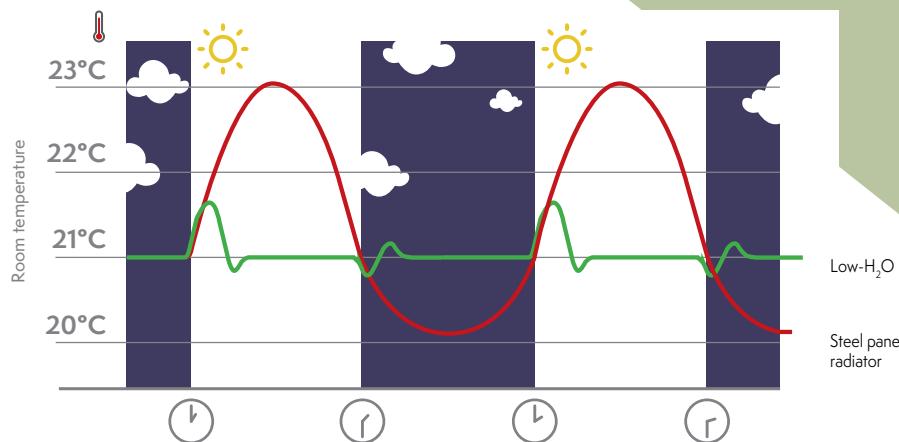
Low-H₂O radiators are more efficient at all water temperatures, making them the perfect partner for renewable systems and boilers alike. In all conditions,

Low-H₂O radiators achieve the maximum scores set by ISSO. Without a maximum score*, the Low-H₂O exchanger would achieve even higher. KIWA found Low-H₂O to be at least 5% more economical than underfloor heating.

*The minimum required score is 1.00 (100%) for Low-H₂O 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
Target 1.0kW at 45/35/200C							
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-H₂O 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-H₂O 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.



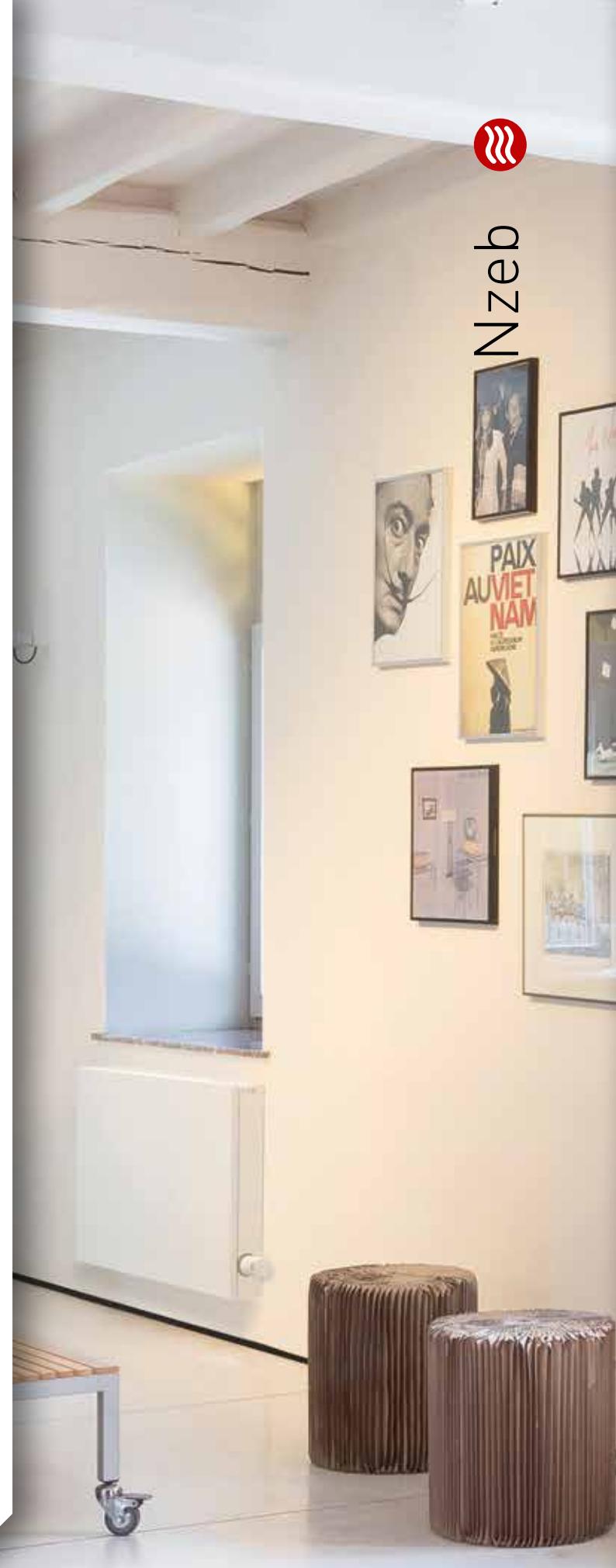
Nzeb Natural

Warmth and efficiency
with cutting-edge design

- Slimline, contemporary design radiator that is discreet and enhances any room.
- The sustainable choice, less material, fast to respond, highly efficient and recyclable.
- Compact size and high power output using low water content (Low-H₂O) heat exchanger technology.
- Ideally suited to renewable energy systems with low flow water temperature.
- Safe-to-touch casing in standard white and grey colours, with other colour options and finishes also available.
- Can offer cooling via Versatile's Dynamic Boost Hybrid (DBH) technology and ventilation via Versatile's oXygen system.



design award
winner



Nzeb





Nzeb HYBRID

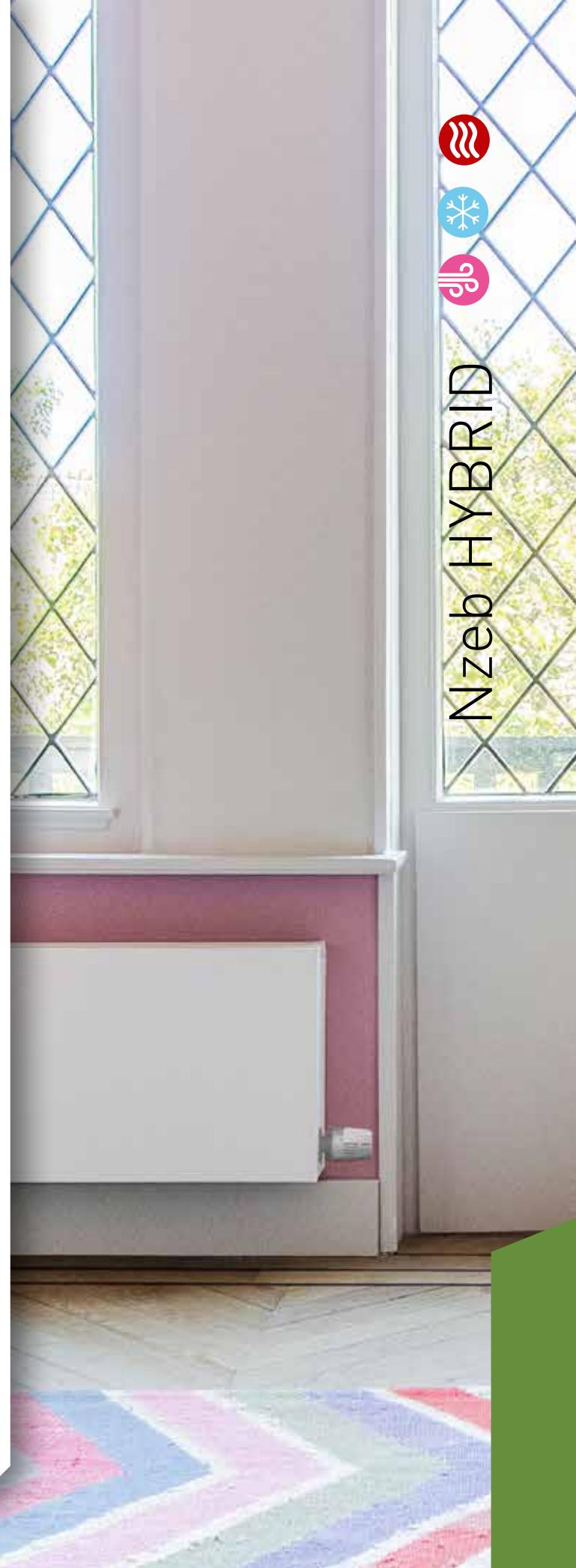
The only radiator that provides heating, cooling and ventilation

Always leading the way in sustainable HVAC innovation, Versatile has developed pioneering technology with Dynamic Boost Hybrid (DBH).

DBH provides high outputs with all water temperatures, hot and cold, making it perfectly suited to heat pumps and other renewable energy systems.

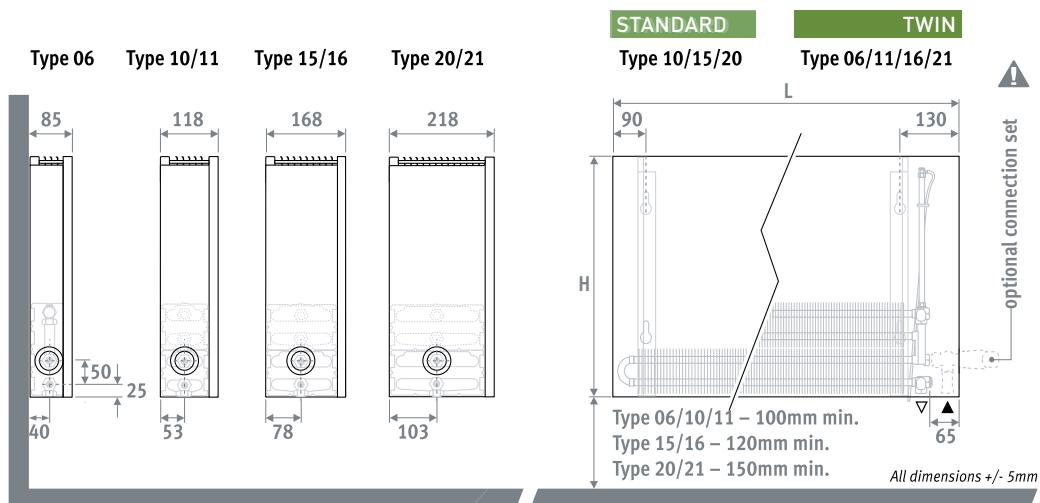
DBH is an enhanced version of Versatile's former Dynamic Boost Effect (DBE) technology, utilising small electric activators inside the unit to significantly boost output. But with the added benefit of providing light cooling.

- All the benefits of Nzeb, but even more compact and more powerful with DBH.
- The ultimate radiator solution for low flow temperatures associated with renewable energy technology.
- Low-cost light cooling when used with reverse cycle heat pumps providing cooled water.
- Breeze functionality offering ambient air circulation.



NZEB NATURAL ▪ DIMENSIONS

in mm



DELIVERY

All Nzebs are made to order.
Split deliveries option available.
Please contact our customer service team to discuss your requirements.

Package includes:

- Low-H₂O heat exchanger with wall brackets and fixing kit, air vent 1/8" and drain plug 1/2".
- Casing for connection left or right at low level.
- Cover plate in stainless steel effect for the side panel at the opposite end from the valve.



COLOURS

Environmentally friendly, scratch-resistant, high UV resistant powder coating.
See colour chart document for full details of our standard and special colours.

CONNECTION

Standard connection:
Bottom end left or right, to the wall or to the floor. Connection to the wall via the bottom of the casing, or totally concealed within the casing, depending on the valve or connection set chosen.

Optional high level valve:
add to the code of the radiator /30 (left) or /60 (right)

E.g. STRW.035 050 06.xxx/60

For more details, see 'Valves, TRV Heads and Accessories' on p28.

Optional remote controlled valve:

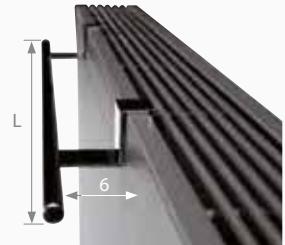
add to the code of the radiator /00.

E.g. STRW.035 050 06.xxx/00



ORDERING CODE

code	height	length	type	colour
STRW .020	050	10	.XXX	L
enter colour code				



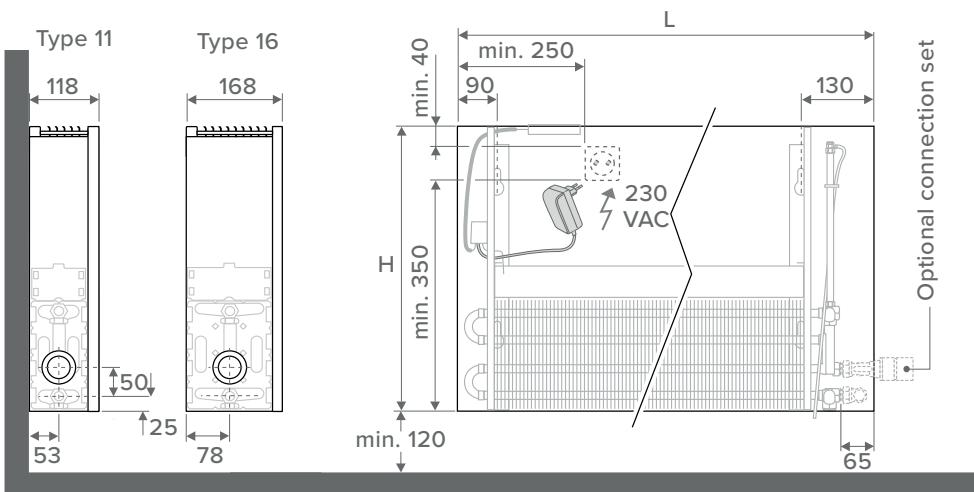
CODE	L
5501.001	560
5501.002	660

SUSTAINABLE DESIGNER



NZEB HYBRID ▪ DIMENSIONS

in mm



DELIVERY

All Nzeb Hybrids are made to order. Split deliveries option available.

Please contact our customer service team to discuss your requirements.

Package includes:

- Low-H₂O heat exchanger with wall brackets and fixing kit, air vent 1/8" and drain plug 1/2".
- Casing for connection left or right at low level.
- Cover plate in stainless steel effect for the side panel at the opposite end from the valve.
- Easy to install DBH unit with operation, control and 24VDC power supply.
- Clear installation instructions.

This heater is not equipped with a condensation monitor. It has to be integrated into the installation (only for cooling).



COLOURS

The DBH unit sits inside the Nzeb Hybrid. Therefore outer casing colour information remains the same as for standard Nzebs.

ELECTRICAL CONNECTION

The DBH system requires an electrical outlet near the heating unit. If it has a height of 500mm, 650mm and 950mm an electrical outlet or power cable can be installed in the casing. If the height is 300mm, only the power cable can be installed inside the casing. Connection to an external electrical outlet is always possible.

Do not connect the electrical and hydraulic connection to the same side of the coil.

HYDRAULIC CONNECTION

Heating

Supply/return on the bottom left or right, to the wall or floor. Wall connection via bottom or completely invisible within the cladding with valve set 225/265.

Heating and cooling

The same connections and valve sets can be used for heating and cooling as for heating only. For the valve sets, use the version with the Heimeier thermostat head HC for heating and cooling or the version with a manual valve.

The room temperature set-point is selectable using the push button controller between 16°C and 26°C.

The thermal activators run at a maximum speed to achieve the equivalent noise level of 30dB(A), therefore the speed varies depending on radiator length.

The thermal activators will speed up and slow down to achieve the desired room temperature, switching off if the room temperature is achieved. The water temperature set-points and the maximum fan speed can be adjusted using the control panel.

Boost mode: can be activated by the user by pressing and holding the + button, providing the water temperature is above the set-point. The thermal activators will run at maximum speed for 15 minutes, then revert to temperature control as detailed above. If water temperature drops below set-point, the thermal activators will switch off.

Cooling mode: the aforementioned operation is reversed, the default water temperature is set to 24°C and the room temperature range is between 31°C and 21°C. For the thermal activators to operate, the water temperature must be below set-point and the room temperature must be above set-point.



DBH UNIT 10



DBH UNIT 15

OPERATION OF DBH SYSTEM

- Suitable for heating or heating + cooling.
- Noise level monitoring, officially measured according to ISO 3741:2010.
- Coloured LEDs indicate setting.
- The DBH system will not control the heat pump or the boiler and therefore cannot replace a room thermostat.

In the UK, Nzeb Hybrid is equipped with the DBH control in TPT mode (temperature control) by default. If you require ACO mode or BMS mode, this must be configured at time of ordering so must be included in the ordering code.

In TPT, the thermal activators run once the water temperature is above set-point (28°C default) and the measured room temperature is below the setpoint.

ORDERING CODE

code	length	unit type	control strategy
DBHS .060	10	/	TPT

The order code for the DBH set is made up of:

1. Order code to indicate it is a complete set – DBHS,
2. Nominal element length to which it is being fitted – 060, 070, 080, ...280,
3. Activator type – 10 or 15,
4. Control strategy – TPT, ACO or BMS.

Example – DBHS.12010/TPT = DBH set to suit 120cm long heat exchanger type 10 or 11, with temperature control strategy.

DBH to be ordered in addition to Nzeb to make Nzeb Hybrid.

HEIGHT 200 - OUTPUT TABLES

NZEB NATURAL

STRW.020 LLL TT.XXX

L mm	SINGLE		WEIGHT	WATER CONTENT	TWIN		WEIGHT	WATER CONTENT
	Type	Watts	kg	l	Type	Watts	kg	l
	75/65		75/65		75/65		75/65	
500	-	-	-	-	06	269	3.4	0.26
	10	328	3.8	0.33	11	-	-	-
	15	545	4.7	0.49	16	-	-	-
	20	766	5.7	0.66	21	-	-	-
600	-	-	-	-	06	323	4.0	0.31
	10	393	4.5	0.39	11	-	-	-
	15	654	5.6	0.59	16	-	-	-
	20	919	6.8	0.79	21	-	-	-
700	-	-	-	-	06	377	4.7	0.36
	10	459	5.3	0.46	11	-	-	-
	15	763	6.6	0.69	16	-	-	-
	20	1072	8.0	0.92	21	-	-	-
800	-	-	-	-	06	430	5.4	0.41
	10	524	6.0	0.52	11	-	-	-
	15	872	7.5	0.78	16	-	-	-
	20	1226	9.1	1.06	21	-	-	-
900	-	-	-	-	06	484	6.0	0.46
	10	590	6.8	0.59	11	-	-	-
	15	981	8.5	0.88	16	-	-	-
	20	1379	10.3	1.19	21	-	-	-
1000	-	-	-	-	06	538	6.7	0.51
	10	655	7.5	0.65	11	-	-	-
	15	1090	9.4	0.98	16	-	-	-
	20	1532	11.4	1.32	21	-	-	-
1100	-	-	-	-	06	592	7.4	0.56
	10	721	8.3	0.72	11	-	-	-
	15	1199	10.3	1.08	16	-	-	-
	20	1685	12.5	1.45	21	-	-	-
1200	-	-	-	-	06	646	8.0	0.61
	10	786	9.0	0.78	11	-	-	-
	15	1308	11.3	1.18	16	-	-	-
	20	1838	13.7	1.58	21	-	-	-
1400	-	-	-	-	06	753	9.4	0.71
	10	917	10.5	0.91	11	-	-	-
	15	1526	13.2	1.37	16	-	-	-
	20	2145	16.0	1.85	21	-	-	-
1600	-	-	-	-	06	861	10.7	0.82
	10	1048	12.0	1.04	11	-	-	-
	15	1744	15.0	1.57	16	-	-	-
	20	2451	18.2	2.11	21	-	-	-
1800	-	-	-	-	06	968	12.1	0.92
	10	1179	13.5	1.17	11	-	-	-
	15	1962	16.9	1.76	16	-	-	-
	20	2758	20.5	2.38	21	-	-	-
2000	-	-	-	-	06	1076	13.4	1.02
	10	1310	15.0	1.30	11	-	-	-
	15	2180	18.8	1.96	16	-	-	-
	20	3064	22.8	2.64	21	-	-	-
2400	-	-	-	-	06	1291	16.1	1.22
	10	1572	18.0	1.56	11	-	-	-
	15	2616	22.6	2.35	16	-	-	-
	20	3677	27.4	3.17	21	-	-	-
2800	-	-	-	-	06	1506	18.8	1.43
	10	1834	21.0	1.82	11	-	-	-
	15	3052	26.3	2.74	16	-	-	-
	20	4290	31.9	3.70	21	-	-	-

EN442 output at 20°C room temperature.

HEIGHT 350 ▪ OUTPUT TABLES ▪ TECHNICAL INFO

NZEB NATURAL

STRW.035 LLL TT.XXX

L mm	SINGLE		WEIGHT kg	WATER CONTENT l	TWIN		WEIGHT kg	WATER CONTENT l
	Type	Watts			Type	Watts		
	75/65	75/65						
500	-	-	-	-	06	395	4.5	0.32
	10	449	4.9	0.33	11	598	5.6	0.67
	15	735	6.0	0.49	16	797	7.1	0.99
	20	1030	7.0	0.66	21	1057	8.4	1.33
600	-	-	-	-	06	474	5.4	0.38
	10	539	5.9	0.39	11	718	6.7	0.80
	15	882	7.1	0.59	16	956	8.5	1.19
	20	1236	8.4	0.79	21	1268	10.0	1.60
700	-	-	-	-	06	553	6.3	0.44
	10	629	6.9	0.46	11	837	7.8	0.93
	15	1029	8.3	0.69	16	1115	9.9	1.39
	20	1442	9.8	0.92	21	1480	11.7	1.86
800	-	-	-	-	06	632	7.2	0.50
	10	718	7.8	0.52	11	957	9.0	1.06
	15	1176	9.5	0.78	16	1274	11.4	1.58
	20	1648	11.2	1.06	21	1691	13.4	2.13
900	-	-	-	-	06	711	8.1	0.57
	10	808	8.8	0.59	11	1076	10.1	1.20
	15	1323	10.7	0.88	16	1434	12.8	1.78
	20	1854	12.6	1.19	21	1903	15.0	2.39
1000	-	-	-	-	06	790	9.0	0.63
	10	898	9.8	0.65	11	1196	11.2	1.33
	15	1470	11.9	0.98	16	1593	14.2	1.98
	20	2060	14.0	1.32	21	2114	16.7	2.66
1100	-	-	-	-	06	869	9.9	0.69
	10	988	10.8	0.72	11	1316	12.3	1.46
	15	1617	13.1	1.08	16	1752	15.6	2.18
	20	2266	15.4	1.45	21	2325	18.4	2.93
1200	-	-	-	-	06	948	10.8	0.76
	10	1078	11.8	0.78	11	1435	13.4	1.60
	15	1764	14.3	1.18	16	1912	17.0	2.38
	20	2472	16.8	1.58	21	2537	20.0	3.19
1400	-	-	-	-	06	1106	12.6	0.88
	10	1257	13.7	0.91	11	1674	15.7	1.86
	15	2058	16.7	1.37	16	2230	19.9	2.77
	20	2884	19.6	1.85	21	2960	23.4	3.72
1600	-	-	-	-	06	1264	14.4	1.01
	10	1437	15.7	1.04	11	1914	17.9	2.13
	15	2352	19.0	1.57	16	2549	22.7	3.17
	20	3296	22.4	2.11	21	3382	26.7	4.26
1800	-	-	-	-	06	1422	16.2	1.13
	10	1616	17.6	1.17	11	2153	20.2	2.39
	15	2646	21.4	1.76	16	2867	25.6	3.56
	20	3708	25.2	2.38	21	3805	30.1	4.79
2000	-	-	-	-	06	1580	18.0	1.26
	10	1796	19.6	1.30	11	2392	22.4	2.66
	15	2940	23.8	1.96	16	3186	28.4	3.96
	20	4120	28.0	2.64	21	4228	33.4	5.32
2400	-	-	-	-	06	1896	21.6	1.51
	10	2155	23.5	1.56	11	2870	26.9	3.19
	15	3528	28.6	2.35	16	3823	34.1	4.75
	20	4944	33.6	3.17	21	5074	40.1	6.38
2800	-	-	-	-	06	2212	25.2	1.76
	10	2514	27.4	1.82	11	3349	31.4	3.72
	15	4116	33.3	2.74	16	4460	39.8	5.54
	20	5768	39.2	3.70	21	5919	46.8	7.45

EN442 output at 20°C room temperature.

HEIGHT 350 - OUTPUT TABLES - TECHNICAL INFO

NZEB HYBRID

STRW.035 LLL TT.XXX + DBHS.LLL TT/TPT

L mm	Type	HEATING Comfort			HEATING Boost			COOLING		SOUND PRESSURE		POWER Watts Max
		Watts 75/65	Watts 45/35	Watts 35/30	Watts 75/65	Watts 45/35	Watts 35/30	Comfort 16/18	Boost 16/18	Comfort dB(A)	Boost dB(A)	
		11	16	21	-	-	-	-	-	-	-	-
500	06	Refer to Versatile Technical Dept.			1102	394	237	158	185	30.0	38.8	5.1
	11	943	337	203	-	-	-	-	-	-	-	-
	16	-	-	-	-	-	-	-	-	-	-	-
	21	-	-	-	-	-	-	-	-	-	-	-
600	06	Refer to Versatile Technical Dept.			1447	518	311	205	242	30.0	40.0	6.8
	11	1223	438	263	1989	712	428	230	305	30.0	41.1	7.2
	16	1503	538	323	2561	960	591	251	332	30.0	41.1	7.2
700	06	Refer to Versatile Technical Dept.			1791	641	385	251	300	30.0	41.0	7.9
	11	1498	536	322	2313	828	498	236	312	30.0	41.1	7.2
	16	1747	625	376	2810	1053	648	258	341	30.0	41.1	7.2
800	06	Refer to Versatile Technical Dept.			2136	764	460	296	358	30.0	41.8	9.1
	11	1770	633	381	2936	1050	632	335	450	30.0	42.4	9.0
	16	2188	783	471	3781	1418	873	366	490	30.0	42.4	9.0
900	06	Refer to Versatile Technical Dept.			2480	887	534	341	415	30.0	42.4	10.3
	11	2037	729	438	3409	1220	734	383	522	30.0	43.3	10.7
	16	2503	896	539	4391	1646	1013	418	570	30.0	43.3	10.7
1000	06	Refer to Versatile Technical Dept.			2825	1011	608	385	473	30.0	43.0	12.2
	11	2301	823	495	3883	1389	836	431	595	30.0	44.1	10.7
	16	2817	1008	606	5000	1875	1154	471	649	30.0	44.1	10.7
1100	06	Refer to Versatile Technical Dept.			3169	1134	682	432	531	30.0	43.5	14.0
	11	2582	924	556	4207	1505	905	437	602	30.0	44.1	12.5
	16	3051	1092	657	5249	1968	1211	477	658	30.0	44.1	12.5
1200	06	Refer to Versatile Technical Dept.			3514	1257	756	473	589	30.0	44.0	14.8
	11	2822	1010	607	4830	1728	1039	532	740	30.0	44.8	14.3
	16	3472	1242	747	6220	2332	1435	580	807	30.0	44.8	14.3
1400	06	Refer to Versatile Technical Dept.			4203	1504	905	558	704	30.0	44.8	17.5
	11	3333	1193	717	5777	2067	1243	630	885	30.0	45.4	14.4
	16	4117	1473	886	7440	2789	1717	688	965	30.0	45.4	14.4
1600	06	Refer to Versatile Technical Dept.			4892	1750	1053	642	819	30.0	45.5	19.2
	11	3835	1372	825	6724	2406	1447	722	1030	30.0	46.4	19.6
	16	4717	1688	1015	8659	3246	1998	788	1123	30.0	46.4	19.6
1800	06	Refer to Versatile Technical Dept.			5581	1997	1201	733	935	30.0	46.0	22.0
	11	4376	1566	942	7371	2637	1586	733	1045	30.0	46.4	19.6
	16	5171	1850	1113	9157	3433	2113	801	1142	30.0	46.4	19.6
2000	06	Refer to Versatile Technical Dept.			6270	2243	1349	807	1050	30.0	46.5	24.0
	11	4821	1725	1037	8618	3083	1855	914	1320	30.0	47.1	23.5
	16	5971	2136	1285	11098	4161	2561	998	1440	30.0	47.1	23.5
2400	06	Refer to Versatile Technical Dept.			7648	2736	1646	961	1281	30.0	47.2	28.0
	11	5738	2053	1235	10512	3761	2262	1098	1610	30.0	48.1	29.7
	16	7168	2565	1543	13538	5075	3124	1197	1756	30.0	48.1	29.7
2800	06	Refer to Versatile Technical Dept.			8790	3145	1892	1056	1406	30.0	47.8	31.4
	11	6599	2361	1420	12406	4439	2670	1278	1900	30.0	48.9	34.5
	16	8348	2987	1797	15977	5990	3687	1395	2072	30.0	48.9	34.5

EN16430 output at 20°C room temperature for heating and 27°C for cooling.
Sound pressure calculated based on sound power measurements in accordance with ISO 3741:2010 and an assumed room dampening of 8dB(A).

HEIGHT 500 ▪ OUTPUT TABLES ▪ TECHNICAL INFO

NZEB NATURAL

STRW.050 LLL TT.XXX

L mm	SINGLE		WEIGHT	WATER CONTENT	TWIN		WEIGHT	WATER CONTENT
	Type	Watts	kg	l	Type	Watts	kg	l
	75/65		75/65		75/65		75/65	
500	-	-	-	-	6	474	5.6	0.32
	10	538	6.0	0.33	11	693	6.8	0.67
	15	867	7.2	0.49	16	949	8.4	0.99
	20	1213	8.4	0.66	21	1291	9.8	1.33
600	-	-	-	-	6	568	6.7	0.38
	10	646	7.2	0.39	11	832	8.1	0.80
	15	1040	8.6	0.59	16	1139	10.0	1.19
	20	1455	10.0	0.79	21	1549	11.7	1.60
700	-	-	-	-	6	663	7.8	0.44
	10	753	8.4	0.46	11	970	9.5	0.93
	15	1214	10.1	0.69	16	1329	11.7	1.39
	20	1698	11.7	0.92	21	1807	13.7	1.86
800	-	-	-	-	6	758	8.9	0.50
	10	861	9.6	0.52	11	1109	10.8	1.06
	15	1387	11.5	0.78	16	1518	13.4	1.58
	20	1940	13.4	1.06	21	2066	15.6	2.13
900	-	-	-	-	6	852	10.0	0.57
	10	968	10.8	0.59	11	1247	12.2	1.20
	15	1561	13.0	0.88	16	1708	15.0	1.78
	20	2183	15.0	1.19	21	2324	17.6	2.39
1000	-	-	-	-	6	947	11.1	0.63
	10	1076	12.0	0.65	11	1386	13.5	1.33
	15	1734	14.4	0.98	16	1898	16.7	1.98
	20	2425	16.7	1.32	21	2582	19.5	2.66
1100	-	-	-	-	6	1042	12.2	0.69
	10	1184	13.2	0.72	11	1525	14.9	1.46
	15	1907	15.8	1.08	16	2088	18.4	2.18
	20	2668	18.4	1.45	21	2840	21.5	2.93
1200	-	-	-	-	6	1136	13.3	0.76
	10	1291	14.4	0.78	11	1663	16.2	1.60
	15	2081	17.3	1.18	16	2278	20.0	2.38
	20	2910	20.0	1.58	21	3098	23.4	3.19
1400	-	-	-	-	6	1326	15.5	0.88
	10	1506	16.8	0.91	11	1940	18.9	1.86
	15	2428	20.2	1.37	16	2657	23.4	2.77
	20	3395	23.4	1.85	21	3615	27.3	3.72
1600	-	-	-	-	6	1515	17.8	1.01
	10	1722	19.2	1.04	11	2218	21.6	2.13
	15	2774	23.0	1.57	16	3037	26.7	3.17
	20	3880	26.7	2.11	21	4131	31.2	4.26
1800	-	-	-	-	6	1705	20.0	1.13
	10	1937	21.6	1.17	11	2495	24.3	2.39
	15	3121	25.9	1.76	16	3416	30.1	3.56
	20	4365	30.1	2.38	21	4648	35.1	4.79
2000	-	-	-	-	6	1894	22.2	1.26
	10	2152	24.0	1.30	11	2772	27.0	2.66
	15	3468	28.8	1.96	16	3796	33.4	3.96
	20	4850	33.4	2.64	21	5164	39.0	5.32
2400	-	-	-	-	6	2273	26.6	1.51
	10	2582	28.8	1.56	11	3326	32.4	3.19
	15	4162	34.6	2.35	16	4555	40.1	4.75
	20	5820	40.1	3.17	21	6197	46.8	6.38
2800	-	-	-	-	6	2652	31.1	1.76
	10	3013	33.6	1.82	11	3881	37.8	3.72
	15	4855	40.3	2.74	16	5314	46.8	5.54
	20	6790	46.8	3.70	21	7230	54.6	7.45

EN442 output at 20°C room temperature.

HEIGHT 500 ▪ OUTPUT TABLES ▪ TECHNICAL INFO

NZEB HYBRID

STRW.050 LLL TT.XXX + DBHS.LLL TT/TPT

L mm	Type	HEATING Comfort			HEATING Boost			COOLING Comfort		SOUND PRESSURE Comfort		POWER Watts Max
		Watts 75/65	Watts 45/35	Watts 35/30	Watts 75/65	Watts 45/35	Watts 35/30	Watts 16/18	Watts 16/18	dB(A)	dB(A)	
		11	16	21	-	-	-	-	-	-	-	-
500	06	Refer to Versatile Technical Dept.										
	11	943	337	203	1102	394	237	158	185	30.0	38.8	5.1
	16	-	-	-	-	-	-	-	-	-	-	-
	21	-	-	-	-	-	-	-	-	-	-	-
600	06	Refer to Versatile Technical Dept.										
	11	1223	438	263	1447	518	311	205	242	30.0	40.0	6.8
	16	1503	538	323	1989	712	428	230	305	30.0	41.1	7.2
	21	1935	725	447	2561	960	591	251	332	30.0	41.1	7.2
700	06	Refer to Versatile Technical Dept.										
	11	1498	536	322	1791	641	385	251	300	30.0	41.0	7.9
	16	1747	625	376	2313	828	498	236	312	30.0	41.1	7.2
	21	2123	796	490	2810	1053	648	258	341	30.0	41.1	7.2
800	06	Refer to Versatile Technical Dept.										
	11	1770	633	381	2136	764	460	296	358	30.0	41.8	9.1
	16	2188	783	471	2936	1050	632	335	450	30.0	42.4	9.0
	21	2818	1056	650	3781	1418	873	366	490	30.0	42.4	9.0
900	06	Refer to Versatile Technical Dept.										
	11	2037	729	438	2480	887	534	341	415	30.0	42.4	10.3
	16	2503	896	539	3409	1220	734	383	522	30.0	43.3	10.7
	21	3224	1209	744	4391	1646	1013	418	570	30.0	43.3	10.7
1000	06	Refer to Versatile Technical Dept.										
	11	2301	823	495	2825	1011	608	385	473	30.0	43.0	12.2
	16	2817	1008	606	3883	1389	836	431	595	30.0	44.1	10.7
	21	3627	1360	837	5000	1875	1154	471	649	30.0	44.1	10.7
1100	06	Refer to Versatile Technical Dept.										
	11	2582	924	556	3169	1134	682	432	531	30.0	43.5	14.0
	16	3051	1092	657	4207	1505	905	437	602	30.0	44.1	12.5
	21	3808	1428	879	5249	1968	1211	477	658	30.0	44.1	12.5
1200	06	Refer to Versatile Technical Dept.										
	11	2822	1010	607	3514	1257	756	473	589	30.0	44.0	14.8
	16	3472	1242	747	4830	1728	1039	532	740	30.0	44.8	14.3
	21	4471	1676	1032	6220	2332	1435	580	807	30.0	44.8	14.3
1400	06	Refer to Versatile Technical Dept.										
	11	3333	1193	717	4203	1504	905	558	704	30.0	44.8	17.5
	16	4117	1473	886	5777	2067	1243	630	885	30.0	45.4	14.4
	21	5302	1988	1224	7440	2789	1717	688	965	30.0	45.4	14.4
1600	06	Refer to Versatile Technical Dept.										
	11	3835	1372	825	4892	1750	1053	642	819	30.0	45.5	19.2
	16	4717	1688	1015	6724	2406	1447	722	1030	30.0	46.4	19.6
	21	6075	2278	1402	8659	3246	1998	788	1123	30.0	46.4	19.6
1800	06	Refer to Versatile Techni-										
	11	4376	1566	942	5581	1997	1201	733	935	30.0	46.0	22.0
	16	5171	1850	1113	7371	2637	1586	733	1045	30.0	46.4	19.6
	21	6424	2408	1482	9157	3433	2113	801	1142	30.0	46.4	19.6
2000	06	Refer to Versatile Technical Dept.										
	11	4821	1725	1037	6270	2243	1349	807	1050	30.0	46.5	24.0
	16	5971	2136	1285	8618	3083	1855	914	1320	30.0	47.1	23.5
	21	7690	2883	1775	11098	4161	2561	998	1440	30.0	47.1	23.5
2400	06	Refer to Versatile Technical Dept.										
	11	5738	2053	1235	7648	2736	1646	961	1281	30.0	47.2	28.0
	16	7168	2565	1543	10512	3761	2262	1098	1610	30.0	48.1	29.7
	21	9231	3461	2130	13538	5075	3124	1197	1756	30.0	48.1	29.7
2800	06	Refer to Versatile Technical Dept.										
	11	6599	2361	1420	8790	3145	1892	1056	1406	30.0	47.8	31.4
	16	8348	2987	1797	12406	4439	2670	1278	1900	30.0	48.9	34.5
	21	10751	4031	2481	15977	5990	3687	1395	2072	30.0	48.9	34.5

EN16430 output at 20°C room temperature for heating and 27°C for cooling.
Sound pressure calculated based on sound power measurements in accordance with ISO 3741:2010 and an assumed room dampening of 8dB(A).

HEIGHT 650 ▪ OUTPUT TABLES ▪ TECHNICAL INFO

NZEB NATURAL

STRW.065 LLL TT.XXX

L mm	SINGLE		WEIGHT	WATER CONTENT	TWIN		WEIGHT	WATER CONTENT
	Type	Watts	kg	l	Type	Watts	kg	l
	75/65		75/65		75/65		75/65	
500	-	-	-	-	06	533	6.7	0.32
	10	606	7.2	0.33	11	772	7.9	0.67
	15	961	8.5	0.49	16	1087	9.6	0.99
	20	1343	9.7	0.66	21	1515	11.1	1.33
600	-	-	-	-	06	640	8.0	0.38
	10	727	8.6	0.39	11	926	9.5	0.80
	15	1153	10.1	0.59	16	1304	11.5	1.19
	20	1611	11.6	0.79	21	1818	13.3	1.60
700	-	-	-	-	06	746	9.3	0.44
	10	848	10.0	0.46	11	1080	11.1	0.93
	15	1345	11.8	0.69	16	1521	13.4	1.39
	20	1880	13.6	0.92	21	2121	15.5	1.86
800	-	-	-	-	06	853	10.6	0.50
	10	969	11.4	0.52	11	1234	12.6	1.06
	15	1538	13.5	0.78	16	1738	15.4	1.58
	20	2148	15.5	1.06	21	2424	17.7	2.13
900	-	-	-	-	06	959	12.0	0.57
	10	1090	12.9	0.59	11	1389	14.2	1.20
	15	1730	15.2	0.88	16	1956	17.3	1.78
	20	2417	17.5	1.19	21	2727	19.9	2.39
1000	-	-	-	-	06	1066	13.3	0.63
	10	1211	14.3	0.65	11	1543	15.8	1.33
	15	1922	16.9	0.98	16	2173	19.2	1.98
	20	2685	19.4	1.32	21	3030	22.1	2.66
1100	-	-	-	-	06	1173	14.6	0.69
	10	1332	15.7	0.72	11	1697	17.4	1.46
	15	2114	18.6	1.08	16	2390	21.1	2.18
	20	2954	21.3	1.45	21	3333	24.3	2.93
1200	-	-	-	-	06	1279	16.0	0.76
	10	1453	17.2	0.78	11	1852	19.0	1.60
	15	2306	20.3	1.18	16	2608	23.0	2.38
	20	3222	23.3	1.58	21	3636	26.5	3.19
1400	-	-	-	-	06	1492	18.6	0.88
	10	1695	20.0	0.91	11	2160	22.1	1.86
	15	2691	23.7	1.37	16	3042	26.9	2.77
	20	3759	27.2	1.85	21	4242	30.9	3.72
1600	-	-	-	-	06	1706	21.3	1.01
	10	1938	22.9	1.04	11	2469	25.3	2.13
	15	3075	27.0	1.57	16	3477	30.7	3.17
	20	4296	31.0	2.11	21	4848	35.4	4.26
1800	-	-	-	-	06	1919	23.9	1.13
	10	2180	25.7	1.17	11	2777	28.4	2.39
	15	3460	30.4	1.76	16	3911	34.6	3.56
	20	4833	34.9	2.38	21	5454	39.8	4.79
2000	-	-	-	-	06	2132	26.6	1.26
	10	2422	28.6	1.30	11	3086	31.6	2.66
	15	3844	33.8	1.96	16	4346	38.4	3.96
	20	5370	38.8	2.64	21	6060	44.2	5.32
2400	-	-	-	-	06	2558	31.9	1.51
	10	2906	34.3	1.56	11	3703	37.9	3.19
	15	4613	40.6	2.35	16	5215	46.1	4.75
	20	6444	46.6	3.17	21	7272	53.0	6.38
2800	-	-	-	-	06	2985	37.2	1.76
	10	3391	40.0	1.82	11	4320	44.2	3.72
	15	5382	47.3	2.74	16	6084	53.8	5.54
	20	7518	54.3	3.70	21	8484	61.9	7.45

EN442 output at 20°C room temperature.

HEIGHT 650 ▪ OUTPUT TABLES ▪ TECHNICAL INFO

NZEB HYBRID

STRW.065 LLL TT.XXX + DBHS.LLL TT/TPT

L mm	Type	HEATING Comfort			HEATING Boost			COOLING		SOUND PRESSURE		POWER Watts Max
		Watts 75/65	Watts 45/35	Watts 35/30	Watts 75/65	Watts 45/35	Watts 35/30	Comfort 16/18	Boost 16/18	dB(A)	dB(A)	
500	06	Refer to Versatile Technical Dept.										
	11	943	337	203	1102	394	237	146	171	30.0	38.8	5.1
	16	-	-	-	-	-	-	-	-	-	-	-
	21	-	-	-	-	-	-	-	-	-	-	-
600	06	Refer to Versatile Technical Dept.										
	11	1223	438	263	1447	518	311	190	224	30.0	40.0	6.8
	16	1503	538	323	1989	712	428	213	282	30.0	41.1	7.2
	21	1935	725	447	2561	960	591	232	307	30.0	41.1	7.2
700	06	Refer to Versatile Technical Dept.										
	11	1498	536	322	1791	641	385	232	278	30.0	41.0	7.9
	16	1747	625	376	2313	828	498	218	289	30.0	41.1	7.2
	21	2123	796	490	2810	1053	648	239	316	30.0	41.1	7.2
800	06	Refer to Versatile Technical Dept.										
	11	1770	633	381	2136	764	460	274	331	30.0	41.8	9.1
	16	2188	783	471	2936	1050	632	310	416	30.0	42.4	9.0
	21	2818	1056	650	3781	1418	873	338	454	30.0	42.4	9.0
900	06	Refer to Versatile Technical Dept.										
	11	2037	729	438	2480	887	534	316	384	30.0	42.4	10.3
	16	2503	896	539	3409	1220	734	355	483	30.0	43.3	10.7
	21	3224	1209	744	4391	1646	1013	387	527	30.0	43.3	10.7
1000	06	Refer to Versatile Technical Dept.										
	11	2301	823	495	2825	1011	608	356	438	30.0	43.0	12.2
	16	2817	1008	606	3883	1389	836	399	550	30.0	44.1	10.7
	21	3627	1360	837	5000	1875	1154	435	600	30.0	44.1	10.7
1100	06	Refer to Versatile Technical Dept.										
	11	2582	924	556	3169	1134	682	400	491	30.0	43.5	14.0
	16	3051	1092	657	4207	1505	905	404	557	30.0	44.1	12.5
	21	3808	1428	879	5249	1968	1211	441	608	30.0	44.1	12.5
1200	06	Refer to Versatile Technical Dept.										
	11	2822	1010	607	3514	1257	756	438	545	30.0	44.0	14.8
	16	3472	1242	747	4830	1728	1039	492	685	30.0	44.8	14.3
	21	4471	1676	1032	6220	2332	1435	536	746	30.0	44.8	14.3
1400	06	Refer to Versatile Tech-										
	11	3333	1193	717	4203	1504	905	516	651	30.0	44.8	17.5
	16	4117	1473	886	5777	2067	1243	583	819	30.0	45.4	14.4
	21	5302	1988	1224	7440	2789	1717	636	893	30.0	45.4	14.4
1600	06	Refer to Versatile Technical Dept.										
	11	3835	1372	825	4892	1750	1053	594	758	30.0	45.5	19.2
	16	4717	1688	1015	6724	2406	1447	668	953	30.0	46.4	19.6
	21	6075	2278	1402	8659	3246	1998	729	1039	30.0	46.4	19.6
1800	06	Refer to Versatile Technical Dept.										
	11	4376	1566	942	5581	1997	1201	678	865	30.0	46.0	22.0
	16	5171	1850	1113	7371	2637	1586	678	966	30.0	46.4	19.6
	21	6424	2408	1482	9157	3433	2113	741	1056	30.0	46.4	19.6
2000	06	Refer to Versatile Technical Dept.										
	11	4821	1725	1037	6270	2243	1349	746	971	30.0	46.5	24.0
	16	5971	2136	1285	8618	3083	1855	845	1221	30.0	47.1	23.5
	21	7690	2883	1775	11098	4161	2561	923	1332	30.0	47.1	23.5
2400	06	Refer to Versatile Technical Dept.										
	11	5738	2053	1235	7648	2736	1646	889	1185	30.0	47.2	28.0
	16	7168	2565	1543	10512	3761	2262	1016	1489	30.0	48.1	29.7
	21	9231	3461	2130	13538	5075	3124	1108	1624	30.0	48.1	29.7
2800	06	Refer to Versatile Technical Dept.										
	11	6599	2361	1420	8790	3145	1892	977	1301	30.0	47.8	31.4
	16	8348	2987	1797	12406	4439	2670	1182	1758	30.0	48.9	34.5
	21	10751	4031	2481	15977	5990	3687	1290	1917	30.0	48.9	34.5

EN16430 output at 20°C room temperature for heating and 27°C for cooling.
 Sound pressure calculated based on sound power measurements in accordance with ISO 3741:2010 and an assumed room dampening of 8dB(A).

HEIGHT 950 ▪ OUTPUT TABLES ▪ TECHNICAL INFO

NZEB NATURAL

STRW.095 LLL TT.XXX

L mm	SINGLE		WEIGHT		WATER CONTENT		TWIN		WEIGHT		WATER CONTENT	
	Type	Watts		kg		l	Type	Watts		kg		l
			75/65				75/65					
500	-	-	-	-	-	-	6	-	-	-	-	-
	10	-	-	-	-	-	11	-	-	-	-	-
	15	-	-	-	-	-	16	-	-	-	-	-
	20	-	-	-	-	-	21	-	-	-	-	-
600	-	-	-	-	-	-	6	736	10.5	0.38		
	10	836	11.3	0.39			11	1078	12.2	0.80		
	15	1288	13.1	0.59			16	1606	14.5	1.19		
	20	1795	14.9	0.79			21	2352	16.5	1.60		
700	-	-	-	-	-	-	6	858	12.3	0.44		
	10	975	13.2	0.46			11	1257	14.3	0.93		
	15	1502	15.3	0.69			16	1874	16.9	1.39		
	20	2094	17.4	0.92			21	2744	19.3	1.86		
800	-	-	-	-	-	-	6	981	14.0	0.50		
	10	1114	15.1	0.52			11	1437	16.3	1.06		
	15	1717	17.4	0.78			16	2142	19.3	1.58		
	20	2394	19.8	1.06			21	3136	22.0	2.13		
900	-	-	-	-	-	-	6	1103	15.8	0.57		
	10	1254	17.0	0.59			11	1616	18.4	1.20		
	15	1931	19.6	0.88			16	2409	21.7	1.78		
	20	2693	22.3	1.19			21	3528	24.8	2.39		
1000	-	-	-	-	-	-	6	1226	17.5	0.63		
	10	1393	18.9	0.65			11	1796	20.4	1.33		
	15	2146	21.8	0.98			16	2677	24.1	1.98		
	20	2992	24.8	1.32			21	3920	27.5	2.66		
1100	-	-	-	-	-	-	6	1349	19.3	0.69		
	10	1532	20.8	0.72			11	1976	22.4	1.46		
	15	2361	24.0	1.08			16	2945	26.5	2.18		
	20	3291	27.3	1.45			21	4312	30.3	2.93		
1200	-	-	-	-	-	-	6	1471	21.0	0.76		
	10	1672	22.7	0.78			11	2155	24.5	1.60		
	15	2575	26.2	1.18			16	3212	28.9	2.38		
	20	3590	29.8	1.58			21	4704	33.0	3.19		
1400	-	-	-	-	-	-	6	1716	24.5	0.88		
	10	1950	26.5	0.91			11	2514	28.6	1.86		
	15	3004	30.5	1.37			16	3748	33.7	2.77		
	20	4189	34.7	1.85			21	5488	38.5	3.72		

EN442 output at 20°C room temperature.

HEIGHT 950 ▪ OUTPUT TABLES ▪ TECHNICAL INFO

NZEB HYBRID

STRW.095 LLL TT.XXX + DBHS.LLL TT/TPT

L mm	Type	HEATING Comfort			HEATING Boost			COOLING Comfort		SOUND PRESSURE Comfort		POWER Watts Max
		Watts 75/65	Watts 45/35	Watts 35/30	Watts 75/65	Watts 45/35	Watts 35/30	Watts 16/18	Watts 16/18	dB(A)	dB(A)	
500	06	Refer to Versatile Technical Dept.										
	11	-	-	-	-	-	-	-	-	-	-	-
	16	-	-	-	-	-	-	-	-	-	-	-
	21	-	-	-	-	-	-	-	-	-	-	-
600	06	Refer to Versatile Technical Dept.										
	11	1223	438	263	1447	518	311	159	188	30.0	40.0	6.8
	16	1503	538	323	1989	712	428	178	236	30.0	41.1	7.2
	21	1935	725	447	2561	960	591	195	257	30.0	41.1	7.2
700	06	Refer to Versatile Technical Dept.										
	11	1498	536	322	1791	641	385	194	233	30.0	41.0	7.9
	16	1747	625	376	2313	828	498	183	242	30.0	41.1	7.2
	21	2123	796	490	2810	1053	648	200	265	30.0	41.1	7.2
800	06	Refer to Versatile Technical Dept.										
	11	1770	633	381	2136	764	460	229	277	30.0	41.8	9.1
	16	2188	783	471	2936	1050	632	260	349	30.0	42.4	9.0
	21	2818	1056	650	3781	1418	873	283	380	30.0	42.4	9.0
900	06	Refer to Versatile Technical Dept.										
	11	2037	729	438	2480	887	534	264	322	30.0	42.4	10.3
	16	2503	896	539	3409	1220	734	297	405	30.0	43.3	10.7
	21	3224	1209	744	4391	1646	1013	324	441	30.0	43.3	10.7
1000	06	Refer to Versatile Technical Dept.										
	11	2301	823	495	2825	1011	608	298	367	30.0	43.0	12.2
	16	2817	1008	606	3883	1389	836	334	461	30.0	44.1	10.7
	21	3627	1360	837	5000	1875	1154	365	503	30.0	44.1	10.7
1100	06	Refer to Versatile Technical Dept.										
	11	2582	924	556	3169	1134	682	335	411	30.0	43.5	14.0
	16	3051	1092	657	4207	1505	905	338	467	30.0	44.1	12.5
	21	3808	1428	879	5249	1968	1211	370	510	30.0	44.1	12.5
1200	06	Refer to Versatile Technical Dept.										
	11	2822	1010	607	3514	1257	756	367	456	30.0	44.0	14.8
	16	3472	1242	747	4830	1728	1039	412	574	30.0	44.8	14.3
	21	4471	1676	1032	6220	2332	1435	449	625	30.0	44.8	14.3
1400	06	Refer to Versatile Technical Dept.										
	11	3333	1193	717	4203	1504	905	432	546	30.0	44.8	17.5
	16	4117	1473	886	5777	2067	1243	488	686	30.0	45.4	14.4
	21	5302	1988	1224	7440	2789	1717	533	748	30.0	45.4	14.4

EN16430 output at 20°C room temperature for heating and 27°C for cooling.
 Sound pressure calculated based on sound power measurements in accordance with ISO 3741:2010 and an assumed room dampening of 8dB(A).

GUARANTEE DURATION



Item	Low-H ₂ O Heat Exchanger	Electric Spare Parts	Other Spare Parts
Nzeb	30 years	---	10 years
Valves for Low-H ₂ O heat exchangers	---	---	3 years
DBH components	---	2 years	---

Full Guarantee and Conditions of Sale available on request.

DELIVERY

Our radiators are delivered in easy to handle compact packaging.

Standard delivery includes:

- Low-H₂O heat exchanger with wall brackets, fixing kit, extended air vent 1/8" and drain plug 1/2".
- Partially pre-mounted casing for connection left or right at low level.
- Cover plate in stainless steel effect for the side panel at the opposite end from the valve.



MAXI 2020 NATURAL

The strongest and safest
LST for maximum durability

- Versatile's strongest LST for heavy duty applications.
- Widely specified in care homes, educational establishments, prisons and secure facilities, hospitals and healthcare environments, hotels and leisure centres.
- Available in single and continuous models with choice for mounting above skirting or to the floor, and top or front facing grille options.
- Safe surface temperature.
- Efficient Low-H₂O technology with super conductive and ultra fast heat exchanger for low energy consumption and maximum heat emission – energy savings of up to 16%.
- 30-year guarantee on the heat exchanger.
- Can offer cooling via Versatile's Dynamic Boost Hybrid (DBH) technology and ventilation via Versatile's oXygen system.



MAXI 2020 NATURAL



MAXI 2020 HYBRID

An LST radiator for heating,
cooling and ventilation in one

Always leading the way in sustainable HVAC innovation, Versatile has developed pioneering technology with Dynamic Boost Hybrid (DBH).

DBH provides high outputs with all water temperatures, hot and cold, making it perfectly suited to heat pumps and other renewable energy systems.

DBH is an enhanced version of Versatile's former Dynamic Boost Effect (DBE) technology, utilising small electric activators inside the unit to significantly boost output. But with the added benefit of providing light cooling.

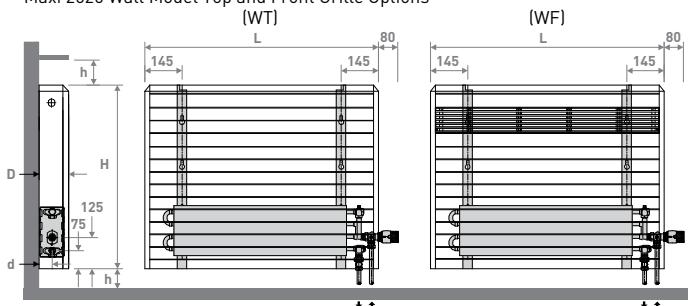
- All the benefits of Maxi 2020, but even more compact and more powerful with DBH.
- The ultimate radiator solution for low flow temperatures associated with renewable energy technology.
- Low-cost light cooling when used with reverse cycle heat pumps providing cooled water.
- Breeze functionality offering ambient air circulation.



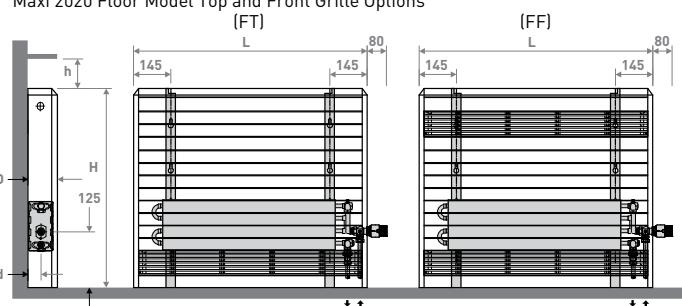
MAXI 2020 NATURAL ▪ DIMENSIONS

in mm

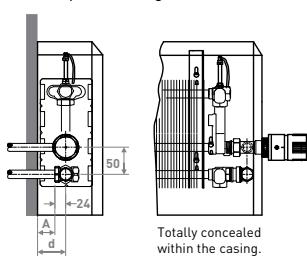
Maxi 2020 Wall Model Top and Front Grille Options



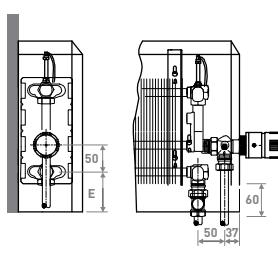
Maxi 2020 Floor Model Top and Front Grille Options



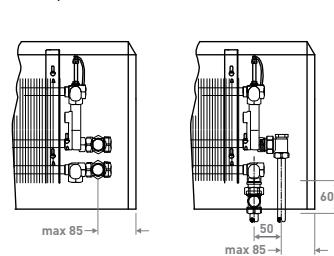
Example with Jaga valve: to the wall.



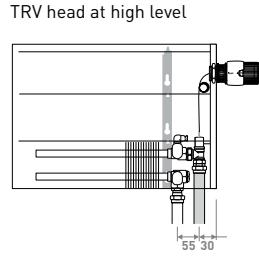
Example with Jaga valve: to the floor.



Example: no TRV



Example from floor with TRV head at high level



Depth mm	Connection to floor d (mm)	Connection to wall A (mm)	Clearance h (mm)
130	53	29	100
180	78	53	120
230	103	79	150

COLOURS

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

Standard colours:

- Traffic White RAL 9016 (233)
Smooth Glossy Finish
- Sandblast Grey (001)
Fine Texture Metallic Lacquer

Other colours: see colour chart. High UV resistance to ASTM G53.

CONNECTION

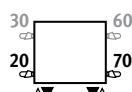
Standard connection:

When ordering a Versatile Maxi 2020 radiator you will be asked where the valve will be placed as valve cut outs are required on order, see examples below.

Optional high level valve:

add to the code of the radiator /30 (left) or /60 (right)

Eg.: MAXW.059 063 180.xxx/WT/**60**



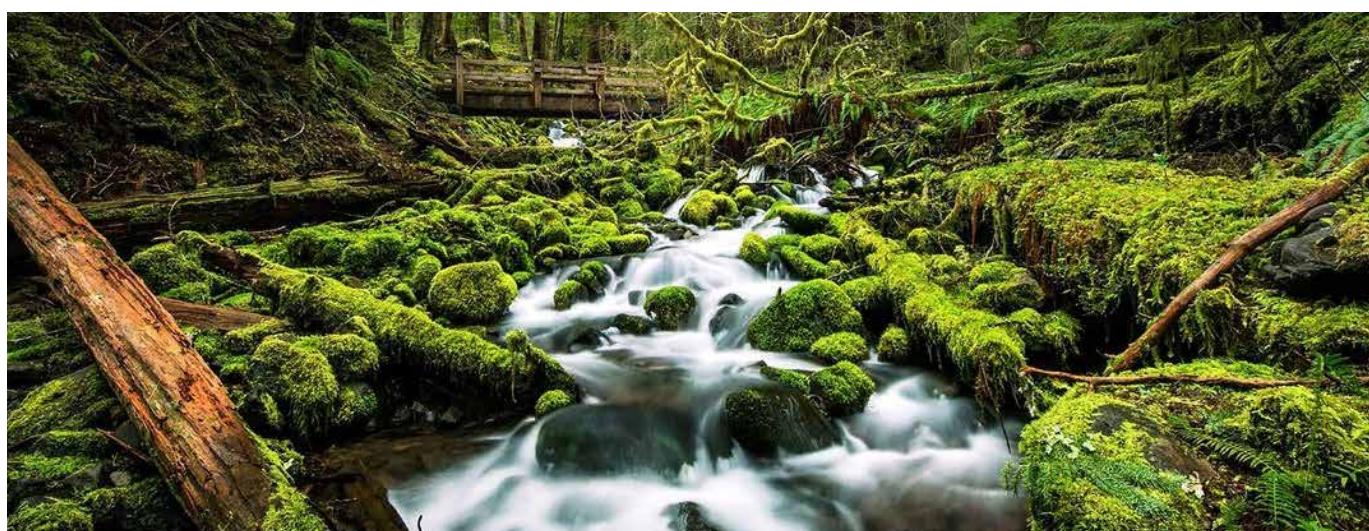
ORDERING CODE

code	height	length	depth	colour	model
MAXW .	044	083	180 .	XXX	/WT

For example: using ordering code:
MAXW 044 083 180 233 / WT will result in a Maxi 2020 wall model, with white casing, 440mm high, 830mm long and 180mm deep.

DELIVERY

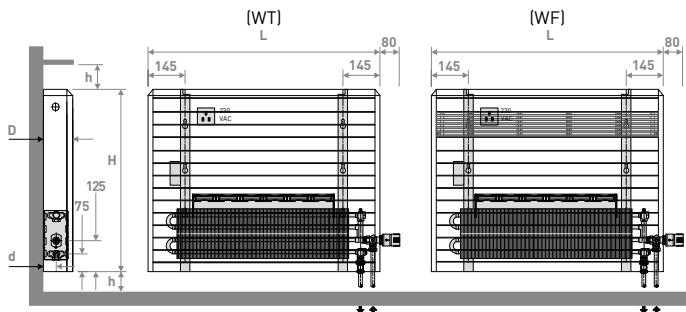
- Split deliveries option available.
 - Elements and brackets are stock items.
 - Casings made to order.
- Please contact our customer service team • to discuss your requirements



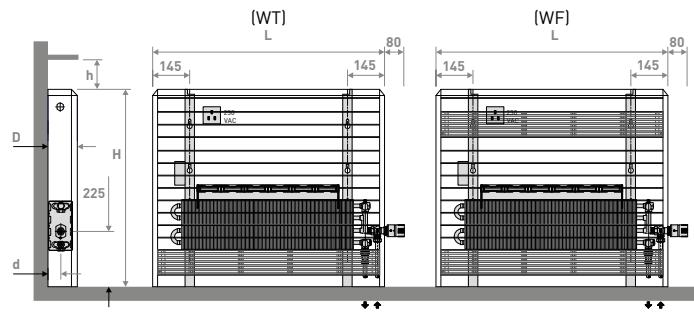
MAXI 2020 HYBRID ▪ DIMENSIONS

in mm

Maxi 2020 Wall Model Top and Front Grille options with DBH



Maxi 2020 Floor Model Top and Front Grille options with DBH



DELIVERY

All Maxi 2020 Hybrids are made to order. Split deliveries option available.



Please contact our customer service team to discuss your requirements.

Package includes:

- Low-H₂O heat exchanger with wall brackets and fixing kit, air vent 1/8" and drain plug 1/2".
- Casing for connection left or right at low level.
- Easy to install DBH unit with operation, control and 24VDC power supply.
- Clear installation instructions.

This heater is not equipped with a condensation monitor. It has to be integrated into the installation (only for cooling).

COLOUR

The DBH unit sits inside the Maxi 2020 Hybrid. Therefore outer casing colour information remains the same as for standard Maxi 2020s.

ELECTRICAL CONNECTION

The DBH system requires an electrical outlet near the heating unit. If it has a height of 440mm (WT & WF), 590mm (all models) and 740mm (all models) an electrical outlet or power cable can be installed in the casing. If the height is 440mm (FT & FF Models), only the power cable can be installed inside the casing. Connection to an external electrical outlet is always possible.

Do not connect the electrical and hydraulic connection to the same side of the coil.

HYDRAULIC CONNECTION

Heating

Supply/return on the bottom left or right, to the wall or floor. Wall connection via bottom or completely invisible within the cladding.

Heating and cooling

The same connections and valve sets can be used for heating and cooling as for heating only. For the valve sets, use the version with the Heimeier thermostatic head HC for heating and cooling or the version with a manual valve.

OPERATION OF DBH SYSTEM

- Suitable for heating or heating + cooling.
- Noise level monitoring, officially measured according to ISO 3741:2010.
- Coloured LEDs indicate setting.
- The DBH system will not control the heat pump or the boiler and therefore cannot replace a room thermostat.

In the UK, Maxi 2020 Hybrid is equipped with the DBH control in TPT mode (temperature control) by default. If you require ACO mode or BMS mode, this must be configured at time of ordering so must be included in the ordering code.

In TPT, the thermal activators run once the water temperature is above set-point (28°C default) and the measured room temperature is below the setpoint.

The room temperature set-point is selectable using the push button controller between 16°C and 26°C.

The thermal activators run at a maximum speed to achieve the equivalent noise level of 30dB(A), therefore the speed varies depending on radiator length.

The thermal activators will speed up and slow down to achieve the desired room temperature, switching off if the room temperature is achieved. The water temperature set-points and the maximum fan speed can be adjusted using the control panel.

Boost mode: can be activated by the user by pressing and holding the + button, providing the water temperature is above the set-point. The thermal activators will run at

maximum speed for 15 minutes, then revert to temperature control as detailed above. If water temperature drops below set-point, the thermal activators will switch off.

Cooling mode: the aforementioned operation is reversed, the default water temperature is set to 24°C and the room temperature range is between 31°C and 21°C. For the thermal activators to operate, the water temperature must be below set-point and the room temperature must be above set-point.

ORDERING CODE

code	height	type	colour
DBHS .	060	10 / TPT	

The order code for the DBH set is made up of:

1. Order code to indicate it is a complete set – DBHS,
2. Nominal element length to which it is being fitted – 060, 070, 080, ...280,
3. Activator type – 10 or 15,
4. Control strategy – TPT, ACO or BMS.

Example – DBHS.12010/TPT = DBH set to suit 120cm long heat exchanger type 10 or 11, with temperature control strategy.

DBH to be ordered in addition to Maxi 2020 to make Maxi 2020 Hybrid.

IMPORTANT:

When ordering DBH to be fitted to Guardian, **the length of the DBH MUST be 1 length shorter than the Guardian**.

i.e. the DBHS12010/TPT would be fitted to the Guardian with length of 1440mm.

Refer to Jaga UK technical department for further guidance.



DBH UNIT 10



DBH UNIT 15

HEIGHT 440 • OUTPUT TABLES • TECHNICAL INFO

WALL MODEL, TOP GRILLE (WT)

MAXI 2020 NATURAL

MAXW.044 LLL Dep.XXX/WT			WEIGHT	WATER CONTENT
L mm	Depth mm	Watts 75/65	kg	l
630	130	478	14.6	0.80
	180	718	16.6	1.19
	230	964	18.5	1.60
830	130	704	19.2	1.06
	180	1057	21.9	1.58
	230	1418	24.3	2.13
1030	130	929	23.8	1.33
	180	1396	27.2	1.98
	230	1873	30.2	2.66
1230	130	1155	28.4	1.60
	180	1735	32.5	2.38
	230	2328	36.1	3.19
1430	130	1381	33.0	1.86
	180	2074	37.8	2.77
	230	2782	41.9	3.72
1630	130	1606	37.7	2.13
	180	2413	43.0	3.17
	230	3237	47.8	4.26
1830	130	1832	42.3	2.39
	180	2752	48.3	3.56
	230	3692	53.7	4.79
2030	130	2057	46.9	2.66
	180	3091	53.6	3.96
	230	4146	59.5	5.32

EN442 output at 20°C room temperature.

MAXI 2020 HYBRID

MAXW.044 LLL Dep.XXX/WT + DBHS.LLL TT/TPT			HEATING			COOLING			SOUND PRESSURE		POWER			
L mm	Depth mm	Watts 75/65	Comfort	45/35	35/30	Watts 75/65	Comfort	45/35	35/30	Watts 16/18	Watts 16/18	dB(A)	dB(A)	Watts Max
630	130	1130	404	243	-	1300	465	280	-	156	185	30.0	40.0	5.1
	180	-	-	-	-	-	-	-	-	-	-	-	-	-
	230	-	-	-	-	-	-	-	-	-	-	-	-	-
830	130	1663	595	358	-	1970	705	424	-	249	300	30.0	41.8	7.9
	180	2080	744	448	-	2707	969	583	-	281	377	30.0	42.4	7.2
	230	2697	1011	622	-	3504	1314	809	-	307	411	30.0	42.4	7.2
1030	130	2190	784	471	-	2649	948	570	-	338	415	30.0	43.0	10.3
	180	2705	968	582	-	3641	1303	784	-	379	522	30.0	44.1	10.7
	230	3500	1312	808	-	4705	1764	1086	-	413	570	30.0	44.1	10.7
1230	130	2709	969	583	-	3332	1192	717	-	426	531	30.0	44.0	14.0
	180	3238	1159	697	-	4329	1549	932	-	479	667	30.0	44.8	12.5
	230	4336	1626	1001	-	5914	2217	1365	-	523	728	30.0	44.8	12.5
1430	130	3104	1111	668	-	3832	1371	825	-	467	589	30.0	44.8	14.8
	180	3878	1388	835	-	5265	1884	1133	-	527	740	30.0	45.4	14.3
	230	5026	1884	1160	-	6813	2554	1572	-	575	807	30.0	45.4	14.3
1630	130	3608	1291	776	-	4515	1615	972	-	552	704	30.0	45.5	17.5
	180	4280	1531	921	-	6204	2220	1335	-	621	885	30.0	46.4	16.1
	230	5801	2175	1339	-	8021	3007	1851	-	677	965	30.0	46.4	16.1
1830	130	4143	1482	892	-	5200	1861	1119	-	642	819	30.0	46.0	19.2
	180	4644	1662	999	-	6620	2369	1425	-	621	885	30.0	46.4	19.6
	230	6367	2387	1469	-	8587	3219	1982	-	677	965	30.0	46.4	19.6
2030	130	4596	1644	989	-	5886	2106	1267	-	719	935	30.0	46.5	22.0
	180	5732	2051	1234	-	8088	2894	1741	-	814	1175	30.0	47.1	19.6
	230	7413	2779	1711	-	10446	3916	2411	-	888	1281	30.0	47.1	19.6

EN16430 output at 20°C room temperature for heating and 27°C for cooling.

Sound pressure calculated based on sound power measurements in accordance with ISO 3741:2010 and an assumed room dampening of 8dB(A).

HEIGHT 590 ▪ OUTPUT TABLES ▪ TECHNICAL INFO

WALL MODEL, TOP GRILLE (WT)

MAXI 2020 NATURAL

MAXW.059 LLL Dep.XXX/WT				
	TWIN		WEIGHT	WATER CONTENT
L mm	Depth mm	Watts 75/65	kg	l
630	130	573	17.7	0.80
	180	877	20.6	1.19
	230	1166	22.6	1.60
830	130	844	23.3	1.06
	180	1290	27.2	1.58
	230	1716	29.8	2.13
1030	130	1114	28.9	1.33
	180	1704	33.7	1.98
	230	2267	37.0	2.66
1230	130	1384	34.5	1.60
	180	2117	40.2	2.38
	230	2817	44.2	3.19
1430	130	1655	40.1	1.86
	180	2531	46.8	2.77
	230	3367	51.4	3.72
1630	130	1925	45.7	2.13
	180	2944	53.3	3.17
	230	3917	58.6	4.26
1830	130	2196	51.4	2.39
	180	3358	59.9	3.56
	230	4467	65.7	4.79
2030	130	2466	57.0	2.66
	180	3771	66.4	3.96
	230	5017	72.9	5.32

EN442 output at 20°C room temperature.

MAXI 2020 HYBRID

MAXW.059 LLL Dep.XXX/WT + DBHS.LLL TT/TPT												
	HEATING Comfort			HEATING Boost	COOLING Comfort	COOLING Boost	SOUND PRESSURE Comfort	SOUND PRESSURE Boost	POWER			
L mm	Depth mm	Watts 75/65	Watts 45/35	Watts 35/30	Watts 75/65	Watts 45/35	Watts 35/30	Watts 16/18	Watts 16/18	dB(A)	dB(A)	Watts Max
630	130	1130	404	243	1300	465	280	156	185	30.0	40.0	5.1
	180	-	-	-	-	-	-	-	-	-	-	-
	230	-	-	-	-	-	-	-	-	-	-	-
830	130	1663	595	358	1970	705	424	249	300	30.0	41.8	7.9
	180	2080	744	448	2707	969	583	281	377	30.0	42.4	7.2
	230	2697	1011	622	3504	1314	809	307	411	30.0	42.4	7.2
1030	130	2190	784	471	2649	948	570	338	415	30.0	43.0	10.3
	180	2705	968	582	3641	1303	784	379	522	30.0	44.1	10.7
	230	3500	1312	808	4705	1764	1086	413	570	30.0	44.1	10.7
1230	130	2709	969	583	3332	1192	717	426	531	30.0	44.0	14.0
	180	3238	1159	697	4329	1549	932	479	667	30.0	44.8	12.5
	230	4336	1626	1001	5914	2217	1365	523	728	30.0	44.8	12.5
1430	130	3104	1111	668	3832	1371	825	467	589	30.0	44.8	14.8
	180	3878	1388	835	5265	1884	1133	527	740	30.0	45.4	14.3
	230	5026	1884	1160	6813	2554	1572	575	807	30.0	45.4	14.3
1630	130	3608	1291	776	4515	1615	972	552	704	30.0	45.5	17.5
	180	4280	1531	921	6204	2220	1335	621	885	30.0	46.4	16.1
	230	5801	2175	1339	8021	3007	1851	677	965	30.0	46.4	16.1
1830	130	4143	1482	892	5200	1861	1119	642	819	30.0	46.0	19.2
	180	4644	1662	999	6620	2369	1425	621	885	30.0	46.4	19.6
	230	6367	2387	1469	8587	3219	1982	677	965	30.0	46.4	19.6
2030	130	4596	1644	989	5886	2106	1267	719	935	30.0	46.5	22.0
	180	5732	2051	1234	8088	2894	1741	814	1175	30.0	47.1	19.6
	230	7413	2779	1711	10446	3916	2411	888	1281	30.0	47.1	19.6

EN16430 output at 20°C room temperature for heating and 27°C for cooling.

Sound pressure calculated based on sound power measurements in accordance with ISO 3741:2010 and an assumed room dampening of 8dB(A).

HEIGHT 740 • OUTPUT TABLES • TECHNICAL INFO

WALL MODEL, TOP GRILLE (WT)

MAXI 2020 NATURAL

MAXW.074 LLL Dep.XXX/WT				
	TWIN		WEIGHT	WATER CONTENT
L mm	Depth mm	Watts 75/65	kg	l
630	130	631	22.5	0.80
	180	958	25.0	1.19
	230	1347	27.1	1.60
830	130	928	29.7	1.06
	180	1410	32.9	1.58
	230	1982	35.7	2.13
1030	130	1225	36.8	1.33
	180	1862	40.8	1.98
	230	2617	44.3	2.66
1230	130	1523	44.0	1.60
	180	2314	48.7	2.38
	230	3253	52.9	3.19
1430	130	1820	51.1	1.86
	180	2766	56.6	2.77
	230	3888	61.5	3.72
1630	130	2118	58.2	2.13
	180	3218	64.6	3.17
	230	4523	70.1	4.26
1830	130	2415	65.4	2.39
	180	3669	72.5	3.56
	230	5158	78.7	4.79
2030	130	2713	72.5	2.66
	180	4121	80.4	3.96
	230	5794	87.3	5.32

EN442 output at 20°C room temperature.

MAXI 2020 HYBRID

MAXW.074 LLL Dep.XXX/WT + DBHS.LLL TT/TPT														
		HEATING Comfort			HEATING Boost			COOLING Comfort		SOUND PRESSURE	POWER			
L mm	Depth mm	Watts 75/65	Watts 45/35	Watts 35/30	Watts 75/65	Watts 45/35	Watts 35/30	Watts 16/18	Watts 16/18	Comfort	Boost	dB(A)	dB(A)	Watts Max
630	130	1130	404	243	1300	465	280	140	167	30.0	40.0	5.1		
	180	-	-	-	-	-	-	-	-	-	-	-	-	-
	230	-	-	-	-	-	-	-	-	-	-	-	-	-
830	130	1663	595	358	1970	705	424	224	270	30.0	41.8	7.9		
	180	2080	744	448	2707	969	583	253	339	30.0	42.4	7.2		
	230	2697	1011	622	3504	1314	809	276	370	30.0	42.4	7.2		
1030	130	2190	784	471	2649	948	570	304	374	30.0	43.0	10.3		
	180	2705	968	582	3641	1303	784	341	470	30.0	44.1	10.7		
	230	3500	1312	808	4705	1764	1086	372	513	30.0	44.1	10.7		
1230	130	2709	969	583	3332	1192	717	383	478	30.0	44.0	14.0		
	180	3238	1159	697	4329	1549	932	431	600	30.0	44.8	12.5		
	230	4336	1626	1001	5914	2217	1365	471	655	30.0	44.8	12.5		
1430	130	3104	1111	668	3832	1371	825	420	530	30.0	44.8	14.8		
	180	3878	1388	835	5265	1884	1133	474	666	30.0	45.4	14.3		
	230	5026	1884	1160	6813	2554	1572	518	726	30.0	45.4	14.3		
1630	130	3608	1291	776	4515	1615	972	497	634	30.0	45.5	17.5		
	180	4280	1531	921	6204	2220	1335	559	797	30.0	46.4	16.1		
	230	5801	2175	1339	8021	3007	1851	609	869	30.0	46.4	16.1		
1830	130	4143	1482	892	5200	1861	1119	578	737	30.0	46.0	19.2		
	180	4644	1662	999	6620	2369	1425	559	797	30.0	46.4	19.6		
	230	6367	2387	1469	8587	3219	1982	609	869	30.0	46.4	19.6		
2030	130	4596	1644	989	5886	2106	1267	647	842	30.0	46.5	22.0		
	180	5732	2051	1234	8088	2894	1741	733	1058	30.0	47.1	19.6		
	230	7413	2779	1711	10446	3916	2411	799	1153	30.0	47.1	19.6		

EN16430 output at 20°C room temperature for heating and 27°C for cooling.
Sound pressure calculated based on sound power measurements in accordance with ISO 3741:2010 and an assumed room dampening of 8dB(A).

HEIGHT 440 ▪ OUTPUT TABLES ▪ TECHNICAL INFO

WALL MODEL, FOOT GRILLE (WF)

MAXI 2020 NATURAL

MAXW.044 LLL Dep.XXX/WF				
	TWIN		WEIGHT	WATER CONTENT
L mm	Depth mm	Watts 75/65	kg	l
630	130	334	14.0	0.80
	180	497	16.6	1.19
	230	620	19.0	1.60
830	130	491	18.5	1.06
	180	732	21.9	1.58
	230	913	25.0	2.13
1030	130	649	22.9	1.33
	180	967	27.2	1.98
	230	1206	31.0	2.66
1230	130	807	27.4	1.60
	180	1201	32.5	2.38
	230	1498	37.0	3.19
1430	130	964	31.8	1.86
	180	1436	37.8	2.77
	230	1791	43.0	3.72
1630	130	1122	36.2	2.13
	180	1670	43.0	3.17
	230	2084	49.1	4.26
1830	130	1279	40.7	2.39
	180	1905	48.3	3.56
	230	2376	55.1	4.79
2030	130	1437	45.1	2.66
	180	2140	53.6	3.96
	230	2669	61.1	5.32

EN442 output at 20°C room temperature.

MAXI 2020 HYBRID

MAXW.044 LLL Dep.XXX/WF + DBHS.LLL TT/TPT												
	HEATING			COOLING	SOUND PRESSURE	POWER						
	Comfort			Boost	Comfort	Boost	Comfort	Boost	dB(A)	dB(A)	Watts	
	L mm	Depth mm	Watts 75/65	Watts 45/35	Watts 35/30	Watts 75/65	Watts 45/35	Watts 35/30	Watts 16/18	Watts 16/18	Max	
630	130	1130	404	243	1300	465	280	Refer to Versatile Technical Department			30.0	
	180	-	-	-	-	-	-				-	
	230	-	-	-	-	-	-				-	
830	130	1663	595	358	1970	705	424	Refer to Versatile Technical Department			30.0	
	180	2080	744	448	2707	969	583				30.0	
	230	2697	1011	622	3504	1314	809				30.0	
1030	130	2190	784	471	2649	948	570	Refer to Versatile Technical Department			30.0	
	180	2705	968	582	3641	1303	784				30.0	
	230	3500	1312	808	4705	1764	1086				30.0	
1230	130	2709	969	583	3332	1192	717	Refer to Versatile Technical Department			30.0	
	180	3238	1159	697	4329	1549	932				30.0	
	230	4336	1626	1001	5914	2217	1365				30.0	
1430	130	3104	1111	668	3832	1371	825	Refer to Versatile Technical Department			30.0	
	180	3878	1388	835	5265	1884	1133				30.0	
	230	5026	1884	1160	6813	2554	1572				30.0	
1630	130	3608	1291	776	4515	1615	972	Refer to Versatile Technical Department			30.0	
	180	4280	1531	921	6204	2220	1335				30.0	
	230	5801	2175	1339	8021	3007	1851				30.0	
1830	130	4143	1482	892	5200	1861	1119	Refer to Versatile Technical Department			30.0	
	180	4644	1662	999	6620	2369	1425				30.0	
	230	6367	2387	1469	8587	3219	1982				30.0	
2030	130	4596	1644	989	5886	2106	1267	Refer to Versatile Technical Department			30.0	
	180	5732	2051	1234	8088	2894	1741				30.0	
	230	7413	2779	1711	10446	3916	2411				30.0	

EN16430 output at 20°C room temperature for heating and 27°C for cooling.
Sound pressure calculated based on sound power measurements in accordance with ISO 3741:2010 and an assumed room dampening of 8dB(A).

HEIGHT 590 • OUTPUT TABLES • TECHNICAL INFO

MAXI 2020 NATURAL WALL MODEL, FOOT GRILLE (WF)

MAXI 2020 NATURAL

MAXW.059 LLL Dep.XXX/WF

L mm	TWIN		WEIGHT kg	WATER CONTENT l
	Depth mm	Watts 75/65		
630	130	458	17.7	0.80
	180	664	20.5	1.19
	230	868	23.1	1.60
830	130	674	23.4	1.06
	180	978	27.0	1.58
	230	1277	30.5	2.13
1030	130	890	29.0	1.33
	180	1291	33.5	1.98
	230	1686	37.8	2.66
1230	130	1105	34.6	1.60
	180	1605	40.0	2.38
	230	2096	45.1	3.19
1430	130	1321	40.3	1.86
	180	1918	46.5	2.77
	230	2505	52.5	3.72
1630	130	1537	45.9	2.13
	180	2231	53.0	3.17
	230	2914	59.8	4.26
1830	130	1753	51.5	2.39
	180	2545	59.5	3.56
	230	3324	67.2	4.79
2030	130	1969	57.2	2.66
	180	2858	66.0	3.96
	230	3733	74.5	5.32

EN442 output at 20°C room temperature.

MAXI 2020 HYBRID

MAXW.059 LLL Dep.XXX/WF + DBHS.LLL TT/TPT

L mm	HEATING Comfort			HEATING Boost			COOLING Comfort		SOUND PRESSURE Comfort		POWER Watts Max
	Watts 75/65	Watts 45/35	Watts 35/30	Watts 75/65	Watts 45/35	Watts 35/30	Watts 16/18	Watts 16/18	dB(A)	dB(A)	
630	130	1130	404	243	1300	465	280		30.0	40.0	5.1
	180	-	-	-	-	-	-		-	-	-
	230	-	-	-	-	-	-		-	-	-
830	130	1663	595	358	1970	705	424		30.0	41.8	7.9
	180	2080	744	448	2707	969	583		30.0	42.4	7.2
	230	2697	1011	622	3504	1314	809		30.0	42.4	7.2
1030	130	2190	784	471	2649	948	570		30.0	43.0	10.3
	180	2705	968	582	3641	1303	784		30.0	44.1	10.7
	230	3500	1312	808	4705	1764	1086		30.0	44.1	10.7
1230	130	2709	969	583	3332	1192	717		30.0	44.0	14.0
	180	3238	1159	697	4329	1549	932		30.0	44.8	12.5
	230	4336	1626	1001	5914	2217	1365		30.0	44.8	12.5
1430	130	3104	1111	668	3832	1371	825		30.0	44.8	14.8
	180	3878	1388	835	5265	1884	1133		30.0	45.4	14.3
	230	5026	1884	1160	6813	2554	1572		30.0	45.4	14.3
1630	130	3608	1291	776	4515	1615	972		30.0	45.5	17.5
	180	4280	1531	921	6204	2220	1335		30.0	46.4	16.1
	230	5801	2175	1339	8021	3007	1851		30.0	46.4	16.1
1830	130	4143	1482	892	5200	1861	1119		30.0	46.0	19.2
	180	4644	1662	999	6620	2369	1425		30.0	46.4	19.6
	230	6367	2387	1469	8587	3219	1982		30.0	46.4	19.6
2030	130	4596	1644	989	5886	2106	1267		30.0	46.5	22.0
	180	5732	2051	1234	8088	2894	1741		30.0	47.1	19.6
	230	7413	2779	1711	10446	3916	2411		30.0	47.1	19.6

EN16430 output at 20°C room temperature for heating and 27°C for cooling.

Sound pressure calculated based on sound power measurements in accordance with ISO 3741:2010 and an assumed room dampening of 8dB(A).

HEIGHT 740 • OUTPUT TABLES • TECHNICAL INFO

WALL MODEL, FOOT GRILLE (WF)

MAXI 2020 NATURAL

MAXW.074 LLL Dep.XXX/WF				
	TWIN		WEIGHT	WATER CONTENT
L mm	Depth mm	Watts 75/65	kg	l
630	130	569	21.9	0.80
	180	798	24.9	1.19
	230	992	27.5	1.60
830	130	838	28.9	1.06
	180	1175	32.8	1.58
	230	1461	36.3	2.13
1030	130	1107	35.8	1.33
	180	1552	40.7	1.98
	230	1929	45.0	2.66
1230	130	1375	42.8	1.60
	180	1928	48.6	2.38
	230	2397	53.7	3.19
1430	130	1644	49.7	1.86
	180	2305	56.5	2.77
	230	2865	62.5	3.72
1630	130	1913	56.7	2.13
	180	2681	64.4	3.17
	230	3333	71.2	4.26
1830	130	2181	63.6	2.39
	180	3058	72.3	3.56
	230	3801	80.0	4.79
2030	130	2450	70.6	2.66
	180	3435	80.2	3.96
	230	4270	88.7	5.32

EN442 output at 20°C room temperature.

MAXI 2020 HYBRID

MAXW.074 LLL Dep.XXX/WF + DBHS.LLL TT/TPT										COOLING		SOUND PRESSURE	POWER	
		HEATING			HEATING			COOLING		Comfort	Boost	dB(A)	dB(A)	Watts Max
		Comfort	Watts 75/65	Watts 45/35	Watts 35/30	Watts 75/65	Watts 45/35	Watts 35/30	Comfort	Boost	Watts 16/18	Watts 16/18		
630	130	1130	404	243	1300	465	280	Refer to Versatile Technical Department		30.0	40.0	5.1		
	180	-	-	-	-	-	-			-	-	-		
	230	-	-	-	-	-	-			-	-	-		
830	130	1663	595	358	1970	705	424	Refer to Versatile Technical Department		30.0	41.8	7.9		
	180	2080	744	448	2707	969	583			30.0	42.4	7.2		
	230	2697	1011	622	3504	1314	809			30.0	42.4	7.2		
1030	130	2190	784	471	2649	948	570	Refer to Versatile Technical Department		30.0	43.0	10.3		
	180	2705	968	582	3641	1303	784			30.0	44.1	10.7		
	230	3500	1312	808	4705	1764	1086			30.0	44.1	10.7		
1230	130	2709	969	583	3332	1192	717	Refer to Versatile Technical Department		30.0	44.0	14.0		
	180	3238	1159	697	4329	1549	932			30.0	44.8	12.5		
	230	4336	1626	1001	5914	2217	1365			30.0	44.8	12.5		
1430	130	3104	1111	668	3832	1371	825	Refer to Versatile Technical Department		30.0	44.8	14.8		
	180	3878	1388	835	5265	1884	1133			30.0	45.4	14.3		
	230	5026	1884	1160	6813	2554	1572			30.0	45.4	14.3		
1630	130	3608	1291	776	4515	1615	972	Refer to Versatile Technical Department		30.0	45.5	17.5		
	180	4280	1531	921	6204	2220	1335			30.0	46.4	16.1		
	230	5801	2175	1339	8021	3007	1851			30.0	46.4	16.1		
1830	130	4143	1482	892	5200	1861	1119	Refer to Versatile Technical Department		30.0	46.0	19.2		
	180	4644	1662	999	6620	2369	1425			30.0	46.4	19.6		
	230	6367	2387	1469	8587	3219	1982			30.0	46.4	19.6		
2030	130	4596	1644	989	5886	2106	1267	Refer to Versatile Technical Department		30.0	46.5	22.0		
	180	5732	2051	1234	8088	2894	1741			30.0	47.1	19.6		
	230	7413	2779	1711	10446	3916	2411			30.0	47.1	19.6		

EN16430 output at 20°C room temperature for heating and 27°C for cooling.
Sound pressure calculated based on sound power measurements in accordance with ISO 3741:2010 and an assumed room dampening of 8dB(A).

HEIGHT 440 ■ OUTPUT TABLES ■ TECHNICAL INFO

FLOOR MODEL, TOP GRILLE (FT)

MAXI 2020 NATURAL

MAXF.044 LLL Dep.XXX/FT				
	TWIN		WEIGHT	WATER CONTENT
L mm	Depth mm	Watts 75/65	kg	l
630	130	391	13.0	0.80
	180	560	15.1	1.19
	230	722	16.9	1.60
830	130	575	17.2	1.06
	180	824	19.9	1.58
	230	1063	22.3	2.13
1030	130	759	21.3	1.33
	180	1088	24.7	1.98
	230	1404	27.7	2.66
1230	130	943	25.4	1.60
	180	1352	29.5	2.38
	230	1744	33.1	3.19
1430	130	1127	29.6	1.86
	180	1616	34.3	2.77
	230	2085	38.5	3.72
1630	130	1312	33.7	2.13
	180	1880	39.1	3.17
	230	2426	43.8	4.26
1830	130	1496	37.8	2.39
	180	2144	43.9	3.56
	230	2766	49.2	4.79
2030	130	1680	42.0	2.66
	180	2408	48.7	3.96
	230	3107	54.6	5.32

EN442 output at 20°C room temperature.

MAXI 2020 HYBRID

MAXF.044 LLL Dep.XXX/FT + DBHS.LLL TT/TPT									
	HEATING			COOLING	SOUND PRESSURE	POWER			
	Comfort			Boost	Comfort	Boost	Comfort	Boost	Max
L mm	Depth mm	Watts 75/65	Watts 45/35	Watts 35/30	Watts 75/65	Watts 45/35	Watts 35/30	Watts 16/18	Watts 16/18
630	130	1130	404	243	1300	465	280	156	185
	180	-	-	-	-	-	-	-	-
	230	-	-	-	-	-	-	-	-
830	130	1663	595	358	1970	705	424	249	300
	180	2080	744	448	2707	969	583	281	377
	230	2697	1011	622	3504	1314	809	307	411
1030	130	2190	784	471	2649	948	570	338	415
	180	2705	968	582	3641	1303	784	379	522
	230	3500	1312	808	4705	1764	1086	413	570
1230	130	2709	969	583	3332	1192	717	426	531
	180	3238	1159	697	4329	1549	932	479	667
	230	4336	1626	1001	5914	2217	1365	523	728
1430	130	3104	1111	668	3832	1371	825	467	589
	180	3878	1388	835	5265	1884	1133	527	740
	230	5026	1884	1160	6813	2554	1572	575	807
1630	130	3608	1291	776	4515	1615	972	552	704
	180	4280	1531	921	6204	2220	1335	621	885
	230	5801	2175	1339	8021	3007	1851	677	965
1830	130	4143	1482	892	5200	1861	1119	642	819
	180	4644	1662	999	6620	2369	1425	621	885
	230	6367	2387	1469	8587	3219	1982	677	965
2030	130	4596	1644	989	5886	2106	1267	719	935
	180	5732	2051	1234	8088	2894	1741	814	1175
	230	7413	2779	1711	10446	3916	2411	888	1281

EN16430 output at 20°C room temperature for heating and 27°C for cooling.
Sound pressure calculated based on sound power measurements in accordance with ISO 3741:2010 and an assumed room dampening of 8dB(A).

HEIGHT 590 ▪ OUTPUT TABLES ▪ TECHNICAL INFO

FLOOR MODEL, TOP GRILLE (FT)

MAXI 2020 NATURAL

MAXF.059 LLL Dep.XXX/FT				
	TWIN		WEIGHT	WATER CONTENT
L mm	Depth mm	Watts 75/65	kg	l
630	130	498	16.9	0.80
	180	732	19.1	1.19
	230	948	21.1	1.60
830	130	732	22.2	1.06
	180	1078	25.2	1.58
	230	1395	27.8	2.13
1030	130	967	27.6	1.33
	180	1423	31.3	1.98
	230	1842	34.5	2.66
1230	130	1202	33.0	1.60
	180	1768	37.4	2.38
	230	2289	41.2	3.19
1430	130	1437	38.3	1.86
	180	2114	43.5	2.77
	230	2736	47.9	3.72
1630	130	1671	43.7	2.13
	180	2459	49.5	3.17
	230	3183	54.6	4.26
1830	130	1906	49.0	2.39
	180	2804	55.6	3.56
	230	3630	61.3	4.79
2030	130	2141	54.4	2.66
	180	3150	61.7	3.96
	230	4078	68.0	5.32

EN442 output at 20°C room temperature.

MAXI 2020 HYBRID

MAXF.059 LLL Dep.XXX/FT + DBHS.LLL TT/TPT														
	HEATING			COOLING	SOUND PRESSURE	POWER								
L mm	Depth mm	Watts 75/65	Watts 45/35	Watts 35/30	Watts 75/65	Watts 45/35	Watts 35/30	Watts 16/18	Watts 16/18	Comfort	Boost	dB(A)	dB(A)	Watts Max
630	130	1130	404	243	1300	465	280	156	185	30.0	40.0	5.1		
	180	-	-	-	-	-	-	-	-	-	-	-	-	-
	230	-	-	-	-	-	-	-	-	-	-	-	-	-
830	130	1663	595	358	1970	705	424	249	300	30.0	41.8	7.9		
	180	2080	744	448	2707	969	583	281	377	30.0	42.4	7.2		
	230	2697	1011	622	3504	1314	809	307	411	30.0	42.4	7.2		
1030	130	2190	784	471	2649	948	570	338	415	30.0	43.0	10.3		
	180	2705	968	582	3641	1303	784	379	522	30.0	44.1	10.7		
	230	3500	1312	808	4705	1764	1086	413	570	30.0	44.1	10.7		
1230	130	2709	969	583	3332	1192	717	426	531	30.0	44.0	14.0		
	180	3238	1159	697	4329	1549	932	479	667	30.0	44.8	12.5		
	230	4336	1626	1001	5914	2217	1365	523	728	30.0	44.8	12.5		
1430	130	3104	1111	668	3832	1371	825	467	589	30.0	44.8	14.8		
	180	3878	1388	835	5265	1884	1133	527	740	30.0	45.4	14.3		
	230	5026	1884	1160	6813	2554	1572	575	807	30.0	45.4	14.3		
1630	130	3608	1291	776	4515	1615	972	552	704	30.0	45.5	17.5		
	180	4280	1531	921	6204	2220	1335	621	885	30.0	46.4	16.1		
	230	5801	2175	1339	8021	3007	1851	677	965	30.0	46.4	16.1		
1830	130	4143	1482	892	5200	1861	1119	642	819	30.0	46.0	19.2		
	180	4644	1662	999	6620	2369	1425	621	885	30.0	46.4	19.6		
	230	6367	2387	1469	8587	3219	1982	677	965	30.0	46.4	19.6		
2030	130	4596	1644	989	5886	2106	1267	719	935	30.0	46.5	22.0		
	180	5732	2051	1234	8088	2894	1741	814	1175	30.0	47.1	19.6		
	230	7413	2779	1711	10446	3916	2411	888	1281	30.0	47.1	19.6		

EN16430 output at 20°C room temperature for heating and 27°C for cooling.

Sound pressure calculated based on sound power measurements in accordance with ISO 3741:2010 and an assumed room dampening of 8dB(A).

HEIGHT 740 ▪ OUTPUT TABLES ▪ TECHNICAL INFO

MAXI 2020 NATURAL FLOOR MODEL, TOP GRILLE (FT)

MAXI 2020 NATURAL

MAXF.074 LLL Dep.XXX/FT			WEIGHT	WATER CONTENT
L mm	Depth mm	Watts 75/65	kg	l
630	130	594	21.0	0.80
	180	885	23.4	1.19
	230	1080	25.3	1.60
830	130	874	27.7	1.06
	180	1302	30.9	1.58
	230	1590	33.3	2.13
1030	130	1154	34.4	1.33
	180	1720	38.3	1.98
	230	2100	41.3	2.66
1230	130	1434	41.1	1.60
	180	2137	45.7	2.38
	230	2609	49.3	3.19
1430	130	1714	47.8	1.86
	180	2555	53.2	2.77
	230	3119	57.3	3.72
1630	130	1994	54.4	2.13
	180	2972	60.6	3.17
	230	3628	65.4	4.26
1830	130	2275	61.1	2.39
	180	3390	68.1	3.56
	230	4138	73.4	4.79
2030	130	2555	67.8	2.66
	180	3807	75.5	3.96
	230	4648	81.4	5.32

EN442 output at 20°C room temperature.

MAXI 2020 HYBRID

MAXF.074 LLL Dep.XXX/FT + DBHS.LLL TT/TPT			HEATING			COOLING		SOUND PRESSURE		POWER				
L mm	Depth mm	Watts 75/65	Comfort	45/35	35/30	75/65	35/30	Comfort	Boost	Comfort	Boost	dB(A)	dB(A)	Watts Max
630	130	1130	404	243	-	1300	280	148	176	-	-	30.0	40.0	5.1
	180	-	-	-	-	-	-	-	-	-	-	-	-	-
	230	-	-	-	-	-	-	-	-	-	-	-	-	-
830	130	1663	595	358	-	1970	424	237	285	-	-	30.0	41.8	7.9
	180	2080	744	448	-	2707	583	267	358	-	-	30.0	42.4	7.2
	230	2697	1011	622	-	3504	809	292	390	-	-	30.0	42.4	7.2
1030	130	2190	784	471	-	2649	570	321	394	-	-	30.0	43.0	10.3
	180	2705	968	582	-	3641	784	360	496	-	-	30.0	44.1	10.7
	230	3500	1312	808	-	4705	1086	392	542	-	-	30.0	44.1	10.7
1230	130	2709	969	583	-	3332	717	405	504	-	-	30.0	44.0	14.0
	180	3238	1159	697	-	4329	932	455	634	-	-	30.0	44.8	12.5
	230	4336	1626	1001	-	5914	1365	497	692	-	-	30.0	44.8	12.5
1430	130	3104	1111	668	-	3832	825	444	560	-	-	30.0	44.8	14.8
	180	3878	1388	835	-	5265	1133	501	703	-	-	30.0	45.4	14.3
	230	5026	1884	1160	-	6813	1572	546	767	-	-	30.0	45.4	14.3
1630	130	3608	1291	776	-	4515	972	524	669	-	-	30.0	45.5	17.5
	180	4280	1531	921	-	6204	1335	590	841	-	-	30.0	46.4	16.1
	230	5801	2175	1339	-	8021	1851	643	917	-	-	30.0	46.4	16.1
1830	130	4143	1482	892	-	5200	1119	610	778	-	-	30.0	46.0	19.2
	180	4644	1662	999	-	6620	1425	590	841	-	-	30.0	46.4	19.6
	230	6367	2387	1469	-	8587	1982	643	917	-	-	30.0	46.4	19.6
2030	130	4596	1644	989	-	5886	1267	683	888	-	-	30.0	46.5	22.0
	180	5732	2051	1234	-	8088	1741	773	1116	-	-	30.0	47.1	19.6
	230	7413	2779	1711	-	10446	2411	844	1217	-	-	30.0	47.1	19.6

EN16420 output at 20°C room temperature for heating and 27°C for cooling.

Sound pressure calculated based on sound power measurements in accordance with ISO 3741:2010 and an assumed room dampening of 8dB(A).

HEIGHT 590 ▪ OUTPUT TABLES ▪ TECHNICAL INFO

FLOOR MODEL, FOOT GRILLE (FF)

MAXI 2020 NATURAL

MAXF.059 LLL Dep.XXX/FF				
	TWIN		WEIGHT	WATER CONTENT
L mm	Depth mm	Watts 75/65	kg	l
630	130	378	16.3	0.80
	180	521	19.1	1.19
	230	660	21.6	1.60
830	130	557	21.4	1.06
	180	767	25.1	1.58
	230	971	28.5	2.13
1030	130	735	26.6	1.33
	180	1013	31.2	1.98
	230	1282	35.3	2.66
1230	130	913	31.8	1.60
	180	1259	37.3	2.38
	230	1593	42.2	3.19
1430	130	1092	36.9	1.86
	180	1504	43.3	2.77
	230	1904	49.0	3.72
1630	130	1270	42.1	2.13
	180	1750	49.4	3.17
	230	2216	55.9	4.26
1830	130	1448	47.3	2.39
	180	1996	55.4	3.56
	230	2527	62.7	4.79
2030	130	1627	52.4	2.66
	180	2242	61.5	3.96
	230	2838	69.6	5.32

EN442 output at 20°C room temperature.

MAXI 2020 HYBRID

MAXF.059 LLL Dep.XXX/FF + DBHS.LLL TT/TPT									
	HEATING Comfort			HEATING Boost			COOLING Comfort		SOUND PRESSURE Comfort
L mm	Depth mm	Watts 75/65	Watts 45/35	Watts 35/30	Watts 75/65	Watts 45/35	Watts 35/30	Watts 16/18	dB(A)
630	130	1130	404	243	1300	465	280	Refer to Versatile Technical Department	
	180	-	-	-	-	-	-	-	
	230	-	-	-	-	-	-	-	
830	130	1663	595	358	1970	705	424	Refer to Versatile Technical Department	
	180	2080	744	448	2707	969	583	30.0	
	230	2697	1011	622	3504	1314	809	41.8	
1030	130	2190	784	471	2649	948	570	Refer to Versatile Technical Department	
	180	2705	968	582	3641	1303	784	30.0	
	230	3500	1312	808	4705	1764	1086	42.4	
1230	130	2709	969	583	3332	1192	717	Refer to Versatile Technical Department	
	180	3238	1159	697	4329	1549	932	44.0	
	230	4336	1626	1001	5914	2217	1365	44.8	
1430	130	3104	1111	668	3832	1371	825	Refer to Versatile Technical Department	
	180	3878	1388	835	5265	1884	1133	45.4	
	230	5026	1884	1160	6813	2554	1572	45.4	
1630	130	3608	1291	776	4515	1615	972	Refer to Versatile Technical Department	
	180	4280	1531	921	6204	2220	1335	46.4	
	230	5801	2175	1339	8021	3007	1851	46.4	
1830	130	4143	1482	892	5200	1861	1119	Refer to Versatile Technical Department	
	180	4644	1662	999	6620	2369	1425	46.4	
	230	6367	2387	1469	8587	3219	1982	46.4	
2030	130	4596	1644	989	5886	2106	1267	Refer to Versatile Technical Department	
	180	5732	2051	1234	8088	2894	1741	47.1	
	230	7413	2779	1711	10446	3916	2411	47.1	

EN16430 output at 20°C room temperature for heating and 27°C for cooling.
Sound pressure calculated based on sound power measurements in accordance with ISO 3741:2010 and an assumed room dampening of 8dB(A).

HEIGHT 740 ▪ OUTPUT TABLES ▪ TECHNICAL INFO

FLOOR MODEL, FOOT GRILLE (FF)

MAXI 2020 NATURAL

MAXF.074 LLL Dep.XXX/FF

	TWIN		WEIGHT	WATER CONTENT
L mm	Depth mm	Watts 75/65	kg	l
630	130	476	20.4	0.80
	180	660	23.4	1.19
	230	831	26.1	1.60
830	130	701	26.9	1.06
	180	971	30.9	1.58
	230	1222	34.3	2.13
1030	130	926	33.4	1.33
	180	1282	38.3	1.98
	230	1614	42.6	2.66
1230	130	1150	39.9	1.60
	180	1594	45.7	2.38
	230	2006	50.9	3.19
1430	130	1375	46.4	1.86
	180	1905	53.2	2.77
	230	2398	59.1	3.72
1630	130	1600	52.9	2.13
	180	2216	60.6	3.17
	230	2790	67.4	4.26
1830	130	1824	59.3	2.39
	180	2527	68.1	3.56
	230	3182	75.7	4.79
2030	130	2049	65.8	2.66
	180	2838	75.5	3.96
	230	3573	84.0	5.32

EN442 output at 20°C room temperature.

MAXI 2020 HYBRID

MAXF.074 LLL Dep.XXX/FF + DBHS.LLL TT/TPT

L mm	Depth mm	HEATING Comfort			HEATING Boost			COOLING Comfort		SOUND PRESSURE Comfort		POWER Max	
		Watts 75/65	Watts 45/35	Watts 35/30	Watts 75/65	Watts 45/35	Watts 35/30	Watts 16/18	Watts 16/18	dB(A)	dB(A)		
630	130	1130	404	243	1300	465	280	Refer to Versatile Technical Department			30.0	40.0	5.1
	180	-	-	-	-	-	-				-	-	-
	230	-	-	-	-	-	-				-	-	-
830	130	1663	595	358	1970	705	424	Refer to Versatile Technical Department			30.0	41.8	7.9
	180	2080	744	448	2707	969	583				30.0	42.4	7.2
	230	2697	1011	622	3504	1314	809				30.0	42.4	7.2
1030	130	2190	784	471	2649	948	570	Refer to Versatile Technical Department			30.0	43.0	10.3
	180	2705	968	582	3641	1303	784				30.0	44.1	10.7
	230	3500	1312	808	4705	1764	1086				30.0	44.1	10.7
1230	130	2709	969	583	3332	1192	717	Refer to Versatile Technical Department			30.0	44.0	14.0
	180	3238	1159	697	4329	1549	932				30.0	44.8	12.5
	230	4336	1626	1001	5914	2217	1365				30.0	44.8	12.5
1430	130	3104	1111	668	3832	1371	825	Refer to Versatile Technical Department			30.0	44.8	14.8
	180	3878	1388	835	5265	1884	1133				30.0	45.4	14.3
	230	5026	1884	1160	6813	2554	1572				30.0	45.4	14.3
1630	130	3608	1291	776	4515	1615	972	Refer to Versatile Technical Department			30.0	45.5	17.5
	180	4280	1531	921	6204	2220	1335				30.0	46.4	16.1
	230	5801	2175	1339	8021	3007	1851				30.0	46.4	16.1
1830	130	4143	1482	892	5200	1861	1119	Refer to Versatile Technical Department			30.0	46.0	19.2
	180	4644	1662	999	6620	2369	1425				30.0	46.4	19.6
	230	6367	2387	1469	8587	3219	1982				30.0	46.4	19.6
2030	130	4596	1644	989	5886	2106	1267	Refer to Versatile Technical Department			30.0	46.5	22.0
	180	5732	2051	1234	8088	2894	1741				30.0	47.1	19.6
	230	7413	2779	1711	10446	3916	2411				30.0	47.1	19.6

EN16430 output at 20°C room temperature for heating and 27°C for cooling.

Sound pressure calculated based on sound power measurements in accordance with ISO 3741:2010 and an assumed room dampening of 8dB(A).

GUARDIAN RADIATOR





GUARDIAN NATURAL

Designed for quick installation
with strength and durability

- A strong and safe LST, widely specified for care homes, educational establishments, sheltered housing, public buildings, hotels and leisure centres, hospitals and healthcare environments.
- Hard-wearing single-piece casing enables rapid installation.
- Safety features include rounded corners and safe to touch surface, even at high flow temperatures.
- Low-H₂O technology with super conductive and ultra fast heat exchanger for low energy consumption and maximum heat emission.
- 30-year guarantee on the heat exchanger.
- Can offer cooling via Versatile's Dynamic Boost Hybrid (DBH) technology and ventilation via Versatile's oXygen system.



GUARDIAN





Enrich Your Space

GUARDIAN HYBRID

An LST radiator for heating,
cooling and ventilation in one

Always leading the way in sustainable HVAC innovation, Versatile has developed pioneering technology with Dynamic Boost Hybrid (DBH).

DBH provides high outputs with all water temperatures, hot and cold, making it perfectly suited to heat pumps and other renewable energy systems.

DBH is an enhanced version of Versatile's former Dynamic Boost Effect (DBE) technology, utilising small electric activators inside the unit to significantly boost output. But with the added benefit of providing light cooling.

- All the benefits of Guardian, but even more compact and more powerful with DBH.
- The ultimate radiator solution for low flow temperatures associated with renewable energy technology.
- Low-cost light cooling when used with reverse cycle heat pumps providing cooled water.
- Breeze functionality offering ambient air circulation.

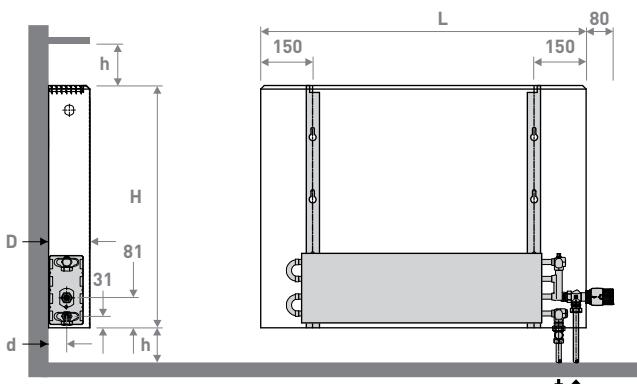


GUARDIAN HYBRID

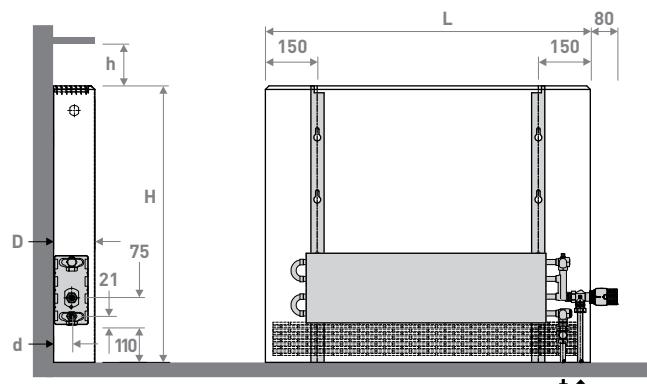
GUARDIAN NATURAL ▪ DIMENSIONS

in mm

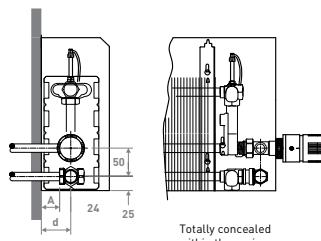
Guardian Wall Model (WT)



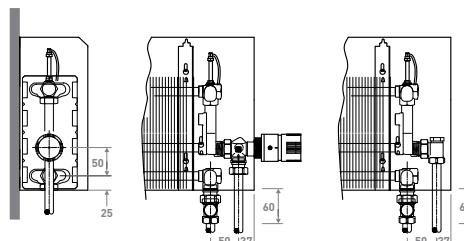
Guardian Floor Model (FT)



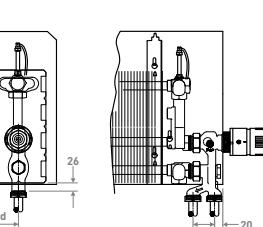
Example with Jaga valve: to the wall.



Example with Jaga valve: to the floor.



Example with Jaga Pro valve: to the floor - WT only.



Depth mm	Connection to floor d (mm)	Connection to wall A (mm)	Clearance h (mm)
119	52	29	100
169	77	53	120
219	77	53	150

COLOURS

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

Standard colour:

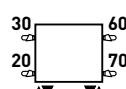
- White RAL 9016 [233], satin gloss finish.

CONNECTION

Standard connection:

Casing features multiple knockouts to suit high and low level valves, on either left or right. On FT models there are additional knockouts to allow for pipework or skirting at a low level.

High level valve details:
see "Valves and TRVs".



Please note: when using the low level valve configuration in conjunction with FT and FF casings models, clearance will be required between the casing side panel and the skirting (assuming skirting is to be fitted tight to casing) to allow for casing removal.

ORDERING CODE

code	height	length	depth	colour	model
GUAR .	040	064	119 .	233	/WT

For example using ordering code GUAR 040 064 119 233 / WT will result in a Guardian wall model with white casing, 400mm high, 640mm long and 119mm deep.

STOCK ITEMS

All items are stocked except
casing heights 700mm and
lengths 1640mm and 2040mm
which are made to order.

All elements and brackets are in stock.

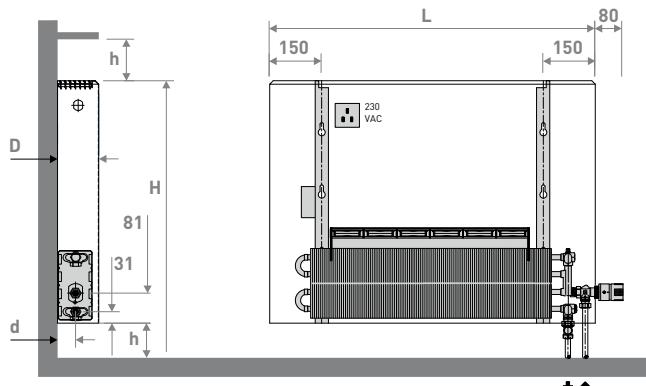
Contact the office for availability on
.larger quantities



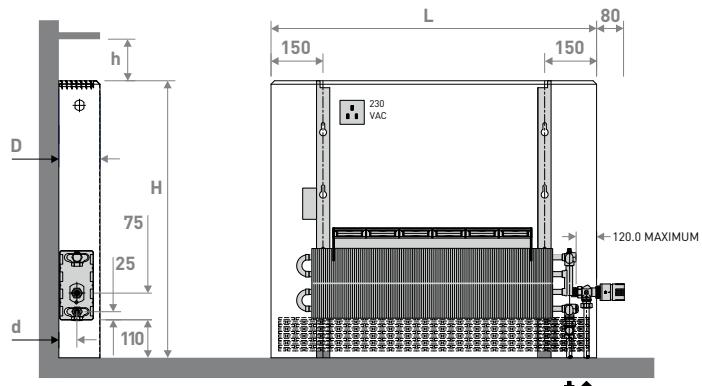
GUARDIAN HYBRID ▪ DIMENSIONS

in mm

Guardian Wall Model (WT) with DBH



Guardian Floor Model (FT) with DBH



DELIVERY

All Guardian Hybrids are made to order. Split deliveries option available.

Please contact our customer service team to discuss your requirements.

Package includes:

- Low-H₂O heat exchanger with wall brackets and fixing kit, air vent 1/8" and drain plug 1/2".
- Casing for connection left or right at low level.
- Cover plate in stainless steel effect for the side panel at the opposite end from the valve.
- Easy to install DBH unit with operation, control and 24VDC power supply.
- Clear installation instructions.

This heater is not equipped with a condensation monitor. It has to be integrated into the installation (only for cooling).

COLOUR

The DBH unit sits inside the Guardian Hybrid. Therefore outer casing colour information remains the same as for standard Guardians.

ELECTRICAL CONNECTION

The DBH system requires an electrical outlet near the heating unit. If it has a height of 500mm, 650mm and 950mm an electrical outlet or power cable can be installed in the casing. If the height is 300mm, only the power cable can be installed inside the casing. Connection to an external electrical outlet is always possible.

Do not connect the electrical and hydraulic connection to the same side of the coil.

HYDRAULIC CONNECTION

Heating

Supply/return on the bottom left or right, to the wall or floor. Wall connection via bottom or completely invisible within the cladding with valve set 225/265.

Heating and cooling

The same connections and valve sets can be used for heating and cooling as for heating only. For the valve sets, use the version with the Heimeier thermostatic head HC for heating and cooling or the version with a manual valve.

OPERATION OF DBH SYSTEM

- Suitable for heating or heating + cooling.
- Noise level monitoring, officially measured according to ISO 3741:2010.
- Coloured LEDs indicate setting.
- The DBH system will not control the heat pump or the boiler and therefore cannot replace a room thermostat.

In the UK, Guardian Hybrid is equipped with the DBH control in TPT mode (temperature control) by default. If you require ACO mode or BMS mode, this must be configured at time of ordering so must be included in the ordering code.

In TPT, the thermal activators run once the water temperature is above set-point (28°C default) and the measured room temperature is below the setpoint.

The room temperature set-point is selectable using the push button controller between 16°C and 26°C.

The thermal activators run at a maximum speed to achieve the equivalent noise level of 30dB(A), therefore the speed varies depending on radiator length.

The thermal activators will speed up and slow down to achieve the desired room temperature, switching off if the room temperature is achieved. The water temperature set-points and the maximum fan speed can be adjusted using the control panel.

Boost mode: can be activated by the user by pressing and holding the + button, providing the water temperature is above the set-point. The thermal activators will run at maximum speed for 15 minutes, then revert to temperature control as detailed above. If water temperature drops below set-point,

the thermal activators will switch off.

Cooling mode: the aforementioned operation is reversed, the default water temperature is set to 24°C and the room temperature range is between 31°C and 21°C. For the thermal activators to operate, the water temperature must be below set-point and the room temperature must be above set-point.

ORDERING CODE

code	height	type	colour
DBHS .	060	10 / TPT	

The order code for the DBH set is made up of:

1. Order code to indicate it is a complete set – DBHS,
2. Nominal element length to which it is being fitted – 060, 070, 080, ...280,
3. Activator type – 10 or 15,
4. Control strategy – TPT, ACO or BMS.

Example – DBHS.12010/TPT = DBH set to suit 120cm long heat exchanger type 10 or 11, with temperature control strategy.

DBH to be ordered in addition to Guardian to make Guardian Hybrid.

IMPORTANT:

When ordering DBH to be fitted to Guardian, **the length of the DBH MUST be 1 length shorter than the Guardian**.

i.e. the DBHS12010/TPT would be fitted to the Guardian with length of 1440mm.

Refer to Versatile UK technical department .for further guidance



DBH UNIT 10



DBH UNIT 15

HEIGHT 400 • OUTPUT TABLES • TECHNICAL INFO

WALL MODEL (WT)

GUARDIAN NATURAL

GUAR.040 LLL Dep.233/WT

L mm	TWIN		WEIGHT kg	WATER CONTENT l
	Depth mm	Watts 75/65		
440	119	234	4.5	0.53
	169	351	5.9	0.79
	219	446	7.1	1.06
640	119	467	6.6	0.80
	169	703	8.6	1.19
	219	893	10.4	1.60
840	119	701	8.7	1.06
	169	1054	11.3	1.58
	219	1339	13.6	2.13
1040	119	934	10.7	1.33
	169	1406	13.9	1.98
	219	1786	16.9	2.66
1240	119	1168	12.8	1.60
	169	1757	16.6	2.38
	219	2232	20.1	3.19
1440	119	1402	14.8	1.86
	169	2108	19.3	2.77
	219	2678	23.3	3.72
1640	119	1635	16.9	2.13
	169	2460	22.0	3.17
	219	3125	26.6	4.26
1840	119	1869	19.0	2.39
	169	2811	24.7	3.56
	219	3571	29.8	4.79
2040	119	2102	21.0	2.66
	169	3163	27.3	3.96
	219	-	-	-

EN442 output at 20°C room temperature.

GUARDIAN (WT) HYBRID

GUAR.040 LLL Dep.233/WT + DBHS.LLL TT/TPT

L mm	Depth mm	HEATING Comfort			HEATING Boost			COOLING Comfort		SOUND PRESSURE Comfort		POWER Watts Max
		Watts 75/65	Watts 45/35	Watts 35/30	Watts 75/65	Watts 45/35	Watts 35/30	Watts 16/18	Watts 16/18	dB(A)	dB(A)	
440	119	-	-	-	-	-	-	-	-	-	-	-
	169	-	-	-	-	-	-	-	-	-	-	-
	219	-	-	-	-	-	-	-	-	-	-	-
640	119	1130	404	243	1300	465	280	156	185	30.0	40.0	5.1
	169	-	-	-	-	-	-	-	-	-	-	-
	219	-	-	-	-	-	-	-	-	-	-	-
840	119	1663	595	358	1970	705	424	249	300	30.0	41.8	7.9
	169	2080	744	448	2707	969	583	281	377	30.0	42.4	7.2
	219	2697	1011	622	3504	1314	809	307	411	30.0	42.4	7.2
1040	119	2190	784	471	2649	948	570	338	415	30.0	43.0	10.3
	169	2705	968	582	3641	1303	784	379	522	30.0	44.1	10.7
	219	3500	1312	808	4705	1764	1086	413	570	30.0	44.1	10.7
1240	119	2709	969	583	3332	1192	717	426	531	30.0	44.0	14.0
	169	3238	1159	697	4329	1549	932	479	667	30.0	44.8	12.5
	219	4336	1626	1001	5914	2217	1365	523	728	30.0	44.8	12.5
1440	119	3104	1111	668	3832	1371	825	467	589	30.0	44.8	14.8
	169	3878	1388	835	5265	1884	1133	527	740	30.0	45.4	14.3
	219	5026	1884	1160	6813	2554	1572	575	807	30.0	45.4	14.3
1640	119	3608	1291	776	4515	1615	972	552	704	30.0	45.5	17.5
	169	4280	1531	921	6204	2220	1335	621	885	30.0	46.4	16.1
	219	5801	2175	1339	8021	3007	1851	677	965	30.0	46.4	16.1
1840	119	4143	1482	892	5200	1861	1119	642	819	30.0	46.0	19.2
	169	4644	1662	999	6620	2369	1425	621	885	30.0	46.4	19.6
	219	6367	2387	1469	8587	3219	1982	677	965	30.0	46.4	19.6
2040	119	4596	1644	989	5886	2106	1267	719	935	30.0	46.5	22.0
	169	5732	2051	1234	8088	2894	1741	814	1175	30.0	47.1	19.6
	219	-	-	-	-	-	-	-	-	-	-	-

EN1642 output at 20°C room temperature for heating and 27°C for cooling.

Sound pressure calculated based on sound power measurements in accordance with ISO 3741:2010 and an assumed room dampening of 8dB(A).

HEIGHT 500 ▪ OUTPUT TABLES ▪ TECHNICAL INFO

WALL MODEL (WT)

GUARDIAN NATURAL

GUAR.050 LLL Dep.233/WT				
L mm	TWIN		WEIGHT	WATER CONTENT
	Depth mm	Watts 75/65	kg	l
440	119	259	5.2	0.53
	169	394	6.6	0.79
	219	522	7.2	1.06
640	119	519	7.6	0.80
	169	788	9.6	1.19
	219	1044	10.5	1.60
840	119	778	9.9	1.06
	169	1181	12.6	1.58
	219	1566	13.8	2.13
1040	119	1038	12.3	1.33
	169	1575	15.6	1.98
	219	2088	17.1	2.66
1240	119	1297	14.6	1.60
	169	1969	18.6	2.38
	219	2610	20.4	3.19
1440	119	1556	17.0	1.86
	169	2363	21.6	2.77
	219	3132	23.7	3.72
1640	119	1816	19.4	2.13
	169	2757	24.6	3.17
	219	3654	27.0	4.26
1840	119	2075	21.7	2.39
	169	3150	27.6	3.56
	219	4176	30.3	4.79
2040	119	2335	24.1	2.66
	169	3544	30.6	3.96
	219	-	-	-

EN442 output at 20°C room temperature.

GUARDIAN (WT) HYBRID

GUAR.050 LLL Dep.233/WT + DBHS.LLL TT/TPT									
L mm	HEATING			COOLING	SOUND PRESSURE	POWER			
	Comfort	Boost	Comfort	Boost	Comfort	Boost	dB(A)	dB(A)	Watts Max
440	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-
640	119	1130	404	243	1300	465	280	156	185
	169	-	-	-	-	-	-	-	-
	219	-	-	-	-	-	-	-	-
840	119	1663	595	358	1970	705	424	249	300
	169	2080	744	448	2707	969	583	281	377
	219	2697	1011	622	3504	1314	809	307	411
1040	119	2190	784	471	2649	948	570	338	415
	169	2705	968	582	3641	1303	784	379	522
	219	3500	1312	808	4705	1764	1086	413	570
1240	119	2709	969	583	3332	1192	717	426	531
	169	3238	1159	697	4329	1549	932	479	667
	219	4336	1626	1001	5914	2217	1365	523	728
1440	119	3104	1111	668	3832	1371	825	467	589
	169	3878	1388	835	5265	1884	1133	527	740
	219	5026	1884	1160	6813	2554	1572	575	807
1640	119	3608	1291	776	4515	1615	972	552	704
	169	4280	1531	921	6204	2220	1335	621	885
	219	5801	2175	1339	8021	3007	1851	677	965
1840	119	4143	1482	892	5200	1861	1119	642	819
	169	4644	1662	999	6620	2369	1425	621	885
	219	6367	2387	1469	8587	3219	1982	677	965
2040	119	4596	1644	989	5886	2106	1267	719	935
	169	5732	2051	1234	8088	2894	1741	814	1175
	219	-	-	-	-	-	-	-	-

EN16430 output at 20°C room temperature for heating and 27°C for cooling.
Sound pressure calculated based on sound power measurements in accordance with ISO 3741:2010 and an assumed room dampening of 8dB(A).

HEIGHT 600 • OUTPUT TABLES • TECHNICAL INFO

WALL MODEL (WT)

GUARDIAN NATURAL

GUAR.060 LLL Dep.233/WT

L mm	TWIN		WEIGHT kg	WATER CONTENT l
	Depth mm	Watts 75/65		
440	119	277	5.8	0.53
	169	425	7.2	0.79
	219	593	8.8	1.06
640	119	554	8.4	0.80
	169	850	10.5	1.19
	219	1187	12.9	1.60
840	119	831	11.0	1.06
	169	1275	13.8	1.58
	219	1780	16.9	2.13
1040	119	1108	13.6	1.33
	169	1700	17.1	1.98
	219	2374	20.9	2.66
1240	119	1385	16.2	1.60
	169	2125	20.3	2.38
	219	2967	24.9	3.19
1440	119	1662	18.9	1.86
	169	2550	23.6	2.77
	219	3560	28.9	3.72
1640	119	1939	21.5	2.13
	169	2975	26.9	3.17
	219	4154	33.0	4.26
1840	119	2216	24.1	2.39
	169	3400	30.2	3.56
	219	4747	37.0	4.79
2040	119	2493	26.7	2.66
	169	3825	33.5	3.96
	219	-	-	-

EN442 output at 20°C room temperature.

GUARDIAN (WT) HYBRID

GUAR.060 LLL Dep.233/WT + DBHS.LLL TT/TPT

L mm	Depth mm	HEATING Comfort				HEATING Boost			COOLING Comfort		SOUND PRESSURE Comfort		POWER Watts Max
		Watts 75/65	Watts 55/45	Watts 45/35	Watts 35/30	Watts 75/65	Watts 45/35	Watts 35/30	Watts 16/18	Watts 16/18	dB(A)	dB(A)	
440	119	-	-	-	-	-	-	-	-	-	-	-	-
	169	-	-	-	-	-	-	-	-	-	-	-	-
	219	-	-	-	-	-	-	-	-	-	-	-	-
640	119	1130	640	404	243	1300	465	280	148	176	30.0	40.0	5.1
	169	-	-	-	-	-	-	-	-	-	-	-	-
	219	-	-	-	-	-	-	-	-	-	-	-	-
840	119	1663	942	595	358	1970	705	424	237	285	30.0	41.8	7.9
	169	2080	1178	744	448	2707	969	583	267	358	30.0	42.4	7.2
	219	2697	1567	1011	622	3504	1314	809	292	390	30.0	42.4	7.2
1040	119	2190	1240	784	471	2649	948	570	321	394	30.0	43.0	10.3
	169	2705	1532	968	582	3641	1303	784	360	496	30.0	44.1	10.7
	219	3500	2034	1312	808	4705	1764	1086	392	542	30.0	44.1	10.7
1240	119	2709	1534	969	583	3332	1192	717	405	504	30.0	44.0	14.0
	169	3238	1834	1159	697	4329	1549	932	455	634	30.0	44.8	12.5
	219	4336	2520	1626	1001	5914	2217	1365	497	692	30.0	44.8	12.5
1440	119	3104	1758	1111	668	3832	1371	825	444	560	30.0	44.8	14.8
	169	3878	2196	1388	835	5265	1884	1133	501	703	30.0	45.4	14.3
	219	5026	2921	1884	1160	6813	2554	1572	546	767	30.0	45.4	14.3
1640	119	3608	2043	1291	776	4515	1615	972	524	669	30.0	45.5	17.5
	169	4280	2424	1531	921	6204	2220	1335	590	841	30.0	46.4	16.1
	219	5801	3371	2175	1339	8021	3007	1851	643	917	30.0	46.4	16.1
1840	119	4143	2346	1482	892	5200	1861	1119	610	778	30.0	46.0	19.2
	169	4644	2630	1662	999	6620	2369	1425	590	841	30.0	46.4	19.6
	219	6367	3700	2387	1469	8587	3219	1982	643	917	30.0	46.4	19.6
2040	119	4596	2603	1644	989	5886	2106	1267	683	888	30.0	46.5	22.0
	169	5732	3246	2051	1234	8088	2894	1741	773	1116	30.0	47.1	19.6
	219	-	-	-	-	-	-	-	-	-	-	-	-

EN16430 output at 20°C room temperature for heating and 27°C for cooling.

Sound pressure calculated based on sound power measurements in accordance with ISO 3741:2010 and an assumed room dampening of 8dB(A).

HEIGHT 400 • OUTPUT TABLES • TECHNICAL INFO

FLOOR MODEL (FT)

GUARDIAN NATURAL

GUAR.040 LLL Dep.233/FT				
L mm	TWIN		WEIGHT	WATER CONTENT
	Depth mm	Watts 75/65	kg	l
440	119	193	3.4	0.53
	169	277	4.5	0.79
	219	339	6.9	1.06
640	119	385	4.9	0.80
	169	553	6.6	1.19
	219	677	10.0	1.60
840	119	578	6.5	1.06
	169	830	8.7	1.58
	219	1016	13.1	2.13
1040	119	770	8.0	1.33
	169	1106	10.7	1.98
	219	1354	16.2	2.66
1240	119	963	9.6	1.60
	169	1383	12.8	2.38
	219	1693	19.3	3.19
1440	119	1156	11.1	1.86
	169	1660	14.8	2.77
	219	2032	22.5	3.72
1640	119	1348	12.6	2.13
	169	1936	16.9	3.17
	219	2370	25.6	4.26
1840	119	1541	14.2	2.39
	169	2213	19.0	3.56
	219	2709	28.7	4.79
2040	119	1733	15.7	2.66
	169	2489	21.0	3.96
	219	-	-	-

EN442 output at 20°C room temperature.

GUARDIAN (WT) HYBRID

GUAR.040 LLL Dep.233/FT + DBHS.LLL TT/TPT												
L mm	Depth mm	HEATING Comfort			HEATING Boost			COOLING Comfort		SOUND PRESSURE Comfort		POWER Max
		Watts 75/65	Watts 45/35	Watts 35/30	Watts 75/65	Watts 45/35	Watts 35/30	Watts 16/18	Watts 16/18	dB(A)	dB(A)	
440	119	-	-	-	-	-	-	-	-	-	-	-
	169	-	-	-	-	-	-	-	-	-	-	-
	219	-	-	-	-	-	-	-	-	-	-	-
640	119	1130	404	243	1300	465	280	156	185	30.0	40.0	5.1
	169	-	-	-	-	-	-	-	-	-	-	-
	219	-	-	-	-	-	-	-	-	-	-	-
840	119	1663	595	358	1970	705	424	249	300	30.0	41.8	7.9
	169	2080	744	448	2707	969	583	281	377	30.0	42.4	7.2
	219	2697	1011	622	3504	1314	809	307	411	30.0	42.4	7.2
1040	119	2190	784	471	2649	948	570	338	415	30.0	43.0	10.3
	169	2705	968	582	3641	1303	784	379	522	30.0	44.1	10.7
	219	3500	1312	808	4705	1764	1086	413	570	30.0	44.1	10.7
1240	119	2709	969	583	3332	1192	717	426	531	30.0	44.0	14.0
	169	3238	1159	697	4329	1549	932	479	667	30.0	44.8	12.5
	219	4336	1626	1001	5914	2217	1365	523	728	30.0	44.8	12.5
1440	119	3104	1111	668	3832	1371	825	467	589	30.0	44.8	14.8
	169	3878	1388	835	5265	1884	1133	527	740	30.0	45.4	14.3
	219	5026	1884	1160	6813	2554	1572	575	807	30.0	45.4	14.3
1640	119	3608	1291	776	4515	1615	972	552	704	30.0	45.5	17.5
	169	4280	1531	921	6204	2220	1335	621	885	30.0	46.4	16.1
	219	5801	2175	1339	8021	3007	1851	677	965	30.0	46.4	16.1
1840	119	4143	1482	892	5200	1861	1119	642	819	30.0	46.0	19.2
	169	4644	1662	999	6620	2369	1425	621	885	30.0	46.4	19.6
	219	6367	2387	1469	8587	3219	1982	677	965	30.0	46.4	19.6
2040	119	4596	1664	989	5886	2106	1267	719	935	30.0	46.5	22.0
	169	5732	2051	1234	8088	2894	1741	814	1175	30.0	47.1	19.6
	219	-	-	-	-	-	-	-	-	-	-	-

EN16430 output at 20°C room temperature for heating and 27°C for cooling.
Sound pressure calculated based on sound power measurements in accordance with ISO 3741:2010 and an assumed room dampening of 8dB(A).

HEIGHT 500 ▪ OUTPUT TABLES ▪ TECHNICAL INFO

GUARDIAN NATURAL FLOOR MODEL (FT)

GUARDIAN NATURAL

GUAR.050 LLL Dep.233/FT

L mm	TWIN		WEIGHT kg	WATER CONTENT l
	Depth mm	Watts 75/65		
440	119	221	4.0	0.53
	169	320	5.2	0.79
	219	377	7.1	1.06
640	119	442	5.8	0.80
	169	639	7.6	1.19
	219	754	10.4	1.60
840	119	663	7.6	1.06
	169	959	10.0	1.58
	219	1132	13.6	2.13
1040	119	884	9.4	1.33
	169	1278	12.4	1.98
	219	1509	16.9	2.66
1240	119	1105	11.2	1.60
	169	1598	14.8	2.38
	219	1886	20.1	3.19
1440	119	1326	13.0	1.86
	169	1918	17.1	2.77
	219	2263	23.3	3.72
1640	119	1547	14.8	2.13
	169	2237	19.5	3.17
	219	2640	26.6	4.26
1840	119	1768	16.6	2.39
	169	2557	21.9	3.56
	219	3018	29.8	4.79
2040	119	1989	18.4	2.66
	169	2876	24.3	3.96
	219	-	-	-

EN442 output at 20°C room temperature.

GUARDIAN (WT) HYBRID

GUAR.050 LLL Dep.233/FT + DBHS.LLL TT/TPT

L mm	HEATING Comfort			HEATING Boost			COOLING Comfort		SOUND PRESSURE Comfort		POWER Max
	Watts 75/65	Watts 45/35	Watts 35/30	Watts 75/65	Watts 45/35	Watts 35/30	Watts 16/18	Watts 16/18	dB(A)	dB(A)	
440	119	-	-	-	-	-	-	-	-	-	-
	169	-	-	-	-	-	-	-	-	-	-
	219	-	-	-	-	-	-	-	-	-	-
640	119	1130	404	243	1300	465	280	156	185	30.0	40.0
	169	-	-	-	-	-	-	-	-	-	-
	219	-	-	-	-	-	-	-	-	-	-
840	119	1663	595	358	1970	705	424	249	300	30.0	41.8
	169	2080	744	448	2707	969	583	281	377	30.0	42.4
	219	2697	1011	622	3504	1314	809	307	411	30.0	42.4
1040	119	2190	784	471	2649	948	570	338	415	30.0	43.0
	169	2705	988	582	3641	1303	784	379	522	30.0	44.1
	219	3500	1312	808	4705	1764	1086	413	570	30.0	44.1
1240	119	2709	969	583	3332	1192	717	426	531	30.0	44.0
	169	3238	1159	697	4329	1549	932	479	667	30.0	44.8
	219	4336	1626	1001	5914	2217	1365	523	728	30.0	44.8
1440	119	3104	1111	668	3832	1371	825	467	589	30.0	44.8
	169	3878	1388	835	5265	1884	1133	527	740	30.0	45.4
	219	5026	1884	1160	6813	2554	1572	575	807	30.0	45.4
1640	119	3608	1291	776	4515	1615	972	552	704	30.0	45.5
	169	4280	1531	921	6204	2220	1335	621	885	30.0	46.4
	219	5801	2175	1339	8021	3007	1851	677	965	30.0	46.4
1840	119	4143	1482	892	5200	1861	1119	642	819	30.0	46.0
	169	4644	1662	999	6620	2369	1425	621	885	30.0	46.4
	219	6367	2387	1469	8587	3219	1982	677	965	30.0	46.4
2040	119	4596	1664	989	5886	2106	1267	719	935	30.0	46.5
	169	5732	2051	1234	8088	2894	1741	814	1175	30.0	47.1
	219	-	-	-	-	-	-	-	-	-	-

EN16430 output at 20°C room temperature for heating and 27°C for cooling.
Sound pressure calculated based on sound power measurements in accordance with ISO 3741:2010 and an assumed room dampening of 8dB(A).

HEIGHT 600 ▪ OUTPUT TABLES ▪ TECHNICAL INFO

FLOOR MODEL (FT)

GUARDIAN NATURAL

GUAR.060 LLL Dep.233/FT

L mm	TWIN		WEIGHT kg	WATER CONTENT l
	Depth mm	Watts 75/65		
440	119	247	4.5	0.53
	169	358	5.9	0.79
	219	419	8.1	1.06
640	119	493	6.6	0.80
	169	716	8.6	1.19
	219	839	11.7	1.60
840	119	740	8.7	1.06
	169	1075	11.3	1.58
	219	1258	15.4	2.13
1040	119	986	10.7	1.33
	169	1433	13.9	1.98
	219	1678	19.0	2.66
1240	119	1233	12.8	1.60
	169	1791	16.6	2.38
	219	2097	22.7	3.19
1440	119	1480	14.8	1.86
	169	2149	19.3	2.77
	219	2516	26.4	3.72
1640	119	1726	16.9	2.13
	169	2507	22.0	3.17
	219	2936	30.0	4.26
1840	119	1973	19.0	2.39
	169	2866	24.7	3.56
	219	3355	33.7	4.79
2040	119	2219	21.0	2.66
	169	3224	27.3	3.96
	219	-	-	-

EN442 output at 20°C room temperature.

GUARDIAN (WT) HYBRID

GUAR.060 LLL Dep.233/FT + DBHS.LLL TT/TPT

L mm	Depth mm	HEATING Comfort			HEATING Boost			COOLING Comfort		SOUND PRESSURE Comfort		POWER Watts Max
		Watts 75/65	Watts 45/35	Watts 35/30	Watts 75/65	Watts 45/35	Watts 35/30	Watts 16/18	Watts 16/18	dB(A)	dB(A)	
440	119	-	-	-	-	-	-	-	-	-	-	-
	169	-	-	-	-	-	-	-	-	-	-	-
	219	-	-	-	-	-	-	-	-	-	-	-
640	119	1130	404	243	1300	465	280	156	185	30.0	40.0	5.1
	169	-	-	-	-	-	-	-	-	-	-	-
	219	-	-	-	-	-	-	-	-	-	-	-
840	119	1663	595	358	1970	705	424	249	300	30.0	41.8	7.9
	169	2080	744	448	2707	969	583	281	377	30.0	42.4	7.2
	219	2697	1011	622	3504	1314	809	307	411	30.0	42.4	7.2
1040	119	2190	784	471	2649	948	570	338	415	30.0	43.0	10.3
	169	2705	968	582	3641	1303	784	379	522	30.0	44.1	10.7
	219	3500	1312	808	4705	1764	1086	413	570	30.0	44.1	10.7
1240	119	2709	969	583	3332	1192	717	426	531	30.0	44.0	14.0
	169	3238	1159	697	4329	1549	932	479	667	30.0	44.8	12.5
	219	4336	1626	1001	5914	2217	1365	523	728	30.0	44.8	12.5
1440	119	3104	1111	668	3832	1371	825	467	589	30.0	44.8	14.8
	169	3878	1388	835	5265	1884	1133	527	740	30.0	45.4	14.3
	219	5026	1884	1160	6813	2554	1572	575	807	30.0	45.4	14.3
1640	119	3608	1291	776	4515	1615	972	552	704	30.0	45.5	17.5
	169	4280	1531	921	6204	2220	1335	621	885	30.0	46.4	16.1
	219	5801	2175	1339	8021	3007	1851	677	965	30.0	46.4	16.1
1840	119	4143	1482	892	5200	1861	1119	642	819	30.0	46.0	19.2
	169	4644	1662	999	6620	2369	1425	621	885	30.0	46.4	19.6
	219	6367	2387	1469	8587	3219	1982	677	965	30.0	46.4	19.6
2040	119	4596	1664	989	5886	2106	1267	719	935	30.0	46.5	22.0
	169	5732	2051	1234	8088	2894	1741	814	1175	30.0	47.1	19.6
	219	-	-	-	-	-	-	-	-	-	-	-

EN1642 output at 20°C room temperature for heating and 27°C for cooling.
Sound pressure calculated based on sound power measurements in accordance with ISO 3741:2010 and an assumed room dampening of 8dB(A).

HEIGHT 700 - OUTPUT TABLES - TECHNICAL INFO

FLOOR MODEL (FT)

GUARDIAN NATURAL

GUAR.070 LLL Dep.233/FT				
	TWIN		WEIGHT	WATER CONTENT
L mm	Depth mm	Watts 75/65	kg	l
440	119	270	5.2	0.53
	169	393	6.6	0.79
	219	-	-	-
640	119	540	7.5	0.80
	169	786	9.5	1.19
	219	-	-	-
840	119	810	9.8	1.06
	169	1179	12.5	1.58
	219	-	-	-
1040	119	1080	12.2	1.33
	169	1572	15.5	1.98
	219	-	-	-
1240	119	1350	14.5	1.60
	169	1965	18.5	2.38
	219	-	-	-
1440	119	1620	16.9	1.86
	169	2358	21.5	2.77
	219	-	-	-
1640	119	1890	19.2	2.13
	169	2751	24.4	3.17
	219	-	-	-
1840	119	2160	21.5	2.39
	169	3144	27.4	3.56
	219	-	-	-
2040	119	2430	23.9	2.66
	169	3537	30.4	3.96
	219	-	-	-

EN442 output at 20°C room temperature.

GUARDIAN (WT) HYBRID

GUAR.070 LLL Dep.233/FT + DBHS.LLL TT/TPT												
	HEATING			HEATING	COOLING	SOUND PRESSURE	POWER					
L mm	Depth mm	Watts 75/65	Watts 45/35	Watts 35/30	Watts 75/65	Watts 45/35	Watts 35/30	Watts 16/18	Watts 16/18	Comfort dB(A)	Boost dB(A)	Watts Max
440	119	-	-	-	-	-	-	-	-	-	-	-
	169	-	-	-	-	-	-	-	-	-	-	-
	219	-	-	-	-	-	-	-	-	-	-	-
640	119	1130	404	243	1300	465	280	148	176	30.0	40.0	5.1
	169	-	-	-	-	-	-	-	-	-	-	-
	219	-	-	-	-	-	-	-	-	-	-	-
840	119	1663	595	358	1970	705	424	237	285	30.0	41.8	7.9
	169	2080	744	448	2707	969	583	267	358	30.0	42.4	7.2
	219	-	-	-	-	-	-	-	-	-	-	-
1040	119	2190	784	471	2649	948	570	321	394	30.0	43.0	10.3
	169	2705	968	582	3641	1303	784	360	496	30.0	44.1	10.7
	219	-	-	-	-	-	-	-	-	-	-	-
1240	119	2709	969	583	3332	1192	717	405	504	30.0	44.0	14.0
	169	3238	1159	697	4329	1549	932	455	634	30.0	44.8	12.5
	219	-	-	-	-	-	-	-	-	-	-	-
1440	119	3104	1111	668	3832	1371	825	444	560	30.0	44.8	14.8
	169	3878	1388	835	5265	1884	1133	501	703	30.0	45.4	14.3
	219	-	-	-	-	-	-	-	-	-	-	-
1640	119	3608	1291	776	4515	1615	972	524	669	30.0	45.5	17.5
	169	4280	1531	921	6204	2220	1335	590	841	30.0	46.4	16.1
	219	-	-	-	-	-	-	-	-	-	-	-
1840	119	4143	1482	892	5200	1861	1119	610	778	30.0	46.0	19.2
	169	4644	1662	999	6620	2369	1425	590	841	30.0	46.4	19.6
	219	-	-	-	-	-	-	-	-	-	-	-
2040	119	4596	1664	989	5886	2106	1267	683	888	30.0	46.5	22.0
	169	5732	2051	1234	8088	2894	1741	773	1116	30.0	47.1	19.6
	219	-	-	-	-	-	-	-	-	-	-	-

EN16430 output at 20°C room temperature for heating and 27°C for cooling.
Sound pressure calculated based on sound power measurements in accordance with ISO 3741:2010 and an assumed room dampening of 8dB(A).

HEIGHT 800 • OUTPUT TABLES • TECHNICAL INFO

GUARDIAN NATURAL FLOOR MODEL (FT)

GUARDIAN NATURAL

GUAR.080 LLL Dep.233/FT				
L mm	TWIN		WEIGHT	WATER CONTENT
	Depth mm	Watts 75/65	kg	l
440	119	291	5.8	0.53
	169	425	7.2	0.79
	219	517	9.6	1.06
640	119	582	8.4	0.80
	169	849	10.5	1.19
	219	1035	14.0	1.60
840	119	874	11.0	1.06
	169	1274	13.8	1.58
	219	1552	18.4	2.13
1040	119	1165	13.6	1.33
	169	1698	17.1	1.98
	219	2070	22.8	2.66
1240	119	1456	16.2	1.60
	169	2123	20.3	2.38
	219	2587	27.2	3.19
1440	119	1747	18.9	1.86
	169	2548	23.6	2.77
	219	3104	31.5	3.72
1640	119	2038	21.5	2.13
	169	2972	26.9	3.17
	219	3622	35.9	4.26
1840	119	2330	24.1	2.39
	169	3397	30.2	3.56
	219	4139	40.3	4.79
2040	119	2621	26.7	2.66
	169	3821	33.5	3.96
	219	-	-	-

EN442 output at 20°C room temperature.

GUARDIAN (WT) HYBRID

GUAR.080 LLL Dep.233/FT + DBHS.LLL TT/TPT											
L mm	Depth mm	HEATING Comfort			HEATING Boost			COOLING Comfort		SOUND PRESSURE Comfort	POWER
		Watts 75/65	Watts 45/35	Watts 35/30	Watts 75/65	Watts 45/35	Watts 35/30	Watts 16/18	Watts 16/18		
440	119	-	-	-	-	-	-	-	-	-	-
	169	-	-	-	-	-	-	-	-	-	-
	219	-	-	-	-	-	-	-	-	-	-
640	119	1130	404	243	1300	465	280	140	167	30.0	40.0
	169	-	-	-	-	-	-	-	-	-	-
	219	-	-	-	-	-	-	-	-	-	-
840	119	1663	595	358	1970	705	424	224	270	30.0	41.8
	169	2080	744	448	2707	969	583	253	339	30.0	42.4
	219	2697	1011	622	3504	1314	809	276	370	30.0	42.4
1040	119	2190	784	471	2649	948	570	304	374	30.0	43.0
	169	2705	968	582	3641	1303	784	341	470	30.0	44.1
	219	3500	1312	808	4705	1764	1086	372	513	30.0	44.1
1240	119	2709	969	583	3332	1192	717	383	478	30.0	44.0
	169	3238	1159	697	4329	1549	932	431	600	30.0	44.8
	219	4336	1626	1001	5914	2217	1365	471	655	30.0	44.8
1440	119	3104	1111	668	3832	1371	825	420	530	30.0	44.8
	169	3878	1388	835	5265	1884	1133	474	666	30.0	45.4
	219	5026	1884	1160	6813	2554	1572	518	726	30.0	45.4
1640	119	3608	1291	776	4515	1615	972	497	634	30.0	45.5
	169	4280	1531	921	6204	2220	1335	559	797	30.0	46.4
	219	5801	2175	1339	8021	3007	1851	609	869	30.0	46.4
1840	119	4143	1482	892	5200	1861	1119	578	737	30.0	46.0
	169	4644	1662	999	6620	2369	1425	559	797	30.0	46.4
	219	6367	2387	1469	8587	3219	1982	609	869	30.0	46.4
2040	119	4596	1664	989	5886	2106	1267	647	842	30.0	46.5
	169	5732	2051	1234	8088	2894	1741	733	1058	30.0	47.1
	219	-	-	-	-	-	-	-	-	-	-

EN16430 output at 20°C room temperature for heating and 27°C for cooling.
Sound pressure calculated based on sound power measurements in accordance with ISO 3741:2010 and an assumed room dampening of 8dB(A).



MINI CANAL TRENCH HEATER + DBE

Perfect for providing heat alongside glazed facades, Mini Canal DBE is discreet and convenient - especially as it is delivered fully-assembled and ready to fit. The heater is extremely versatile, with its varying depth, size and multiple grille material options.

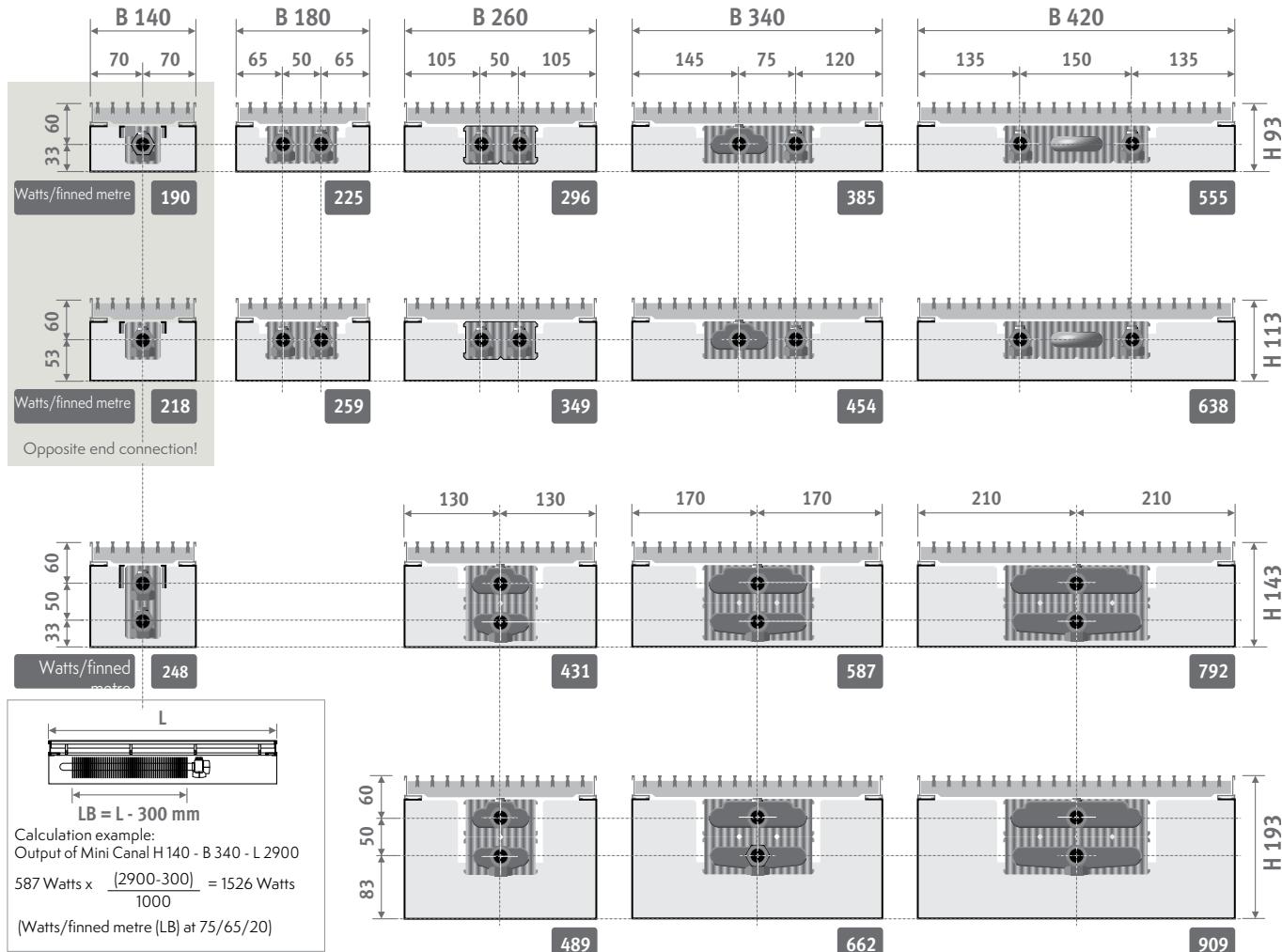


versatile
Enrich Your Space

MINI CANAL - SUMMARY

Product Summary

Building in-opening: height H + 10 mm,
length L and width B +5 mm!



ORDERING CODE

WITH FRAME (L-PROFILE)

code height length width grille
MICL .009 110 14 ./XXX
fill in grille code

WITH COVER FRAME (Z-PROFILE)

code height length width grille
MICZ .009 110 14 ./XXX
fill in grille code

DELIVERY

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

INSTALLATION

Mini Canal is also available with a cover frame. The cover frame facilitates a perfect finish with renovations or wooden floors.

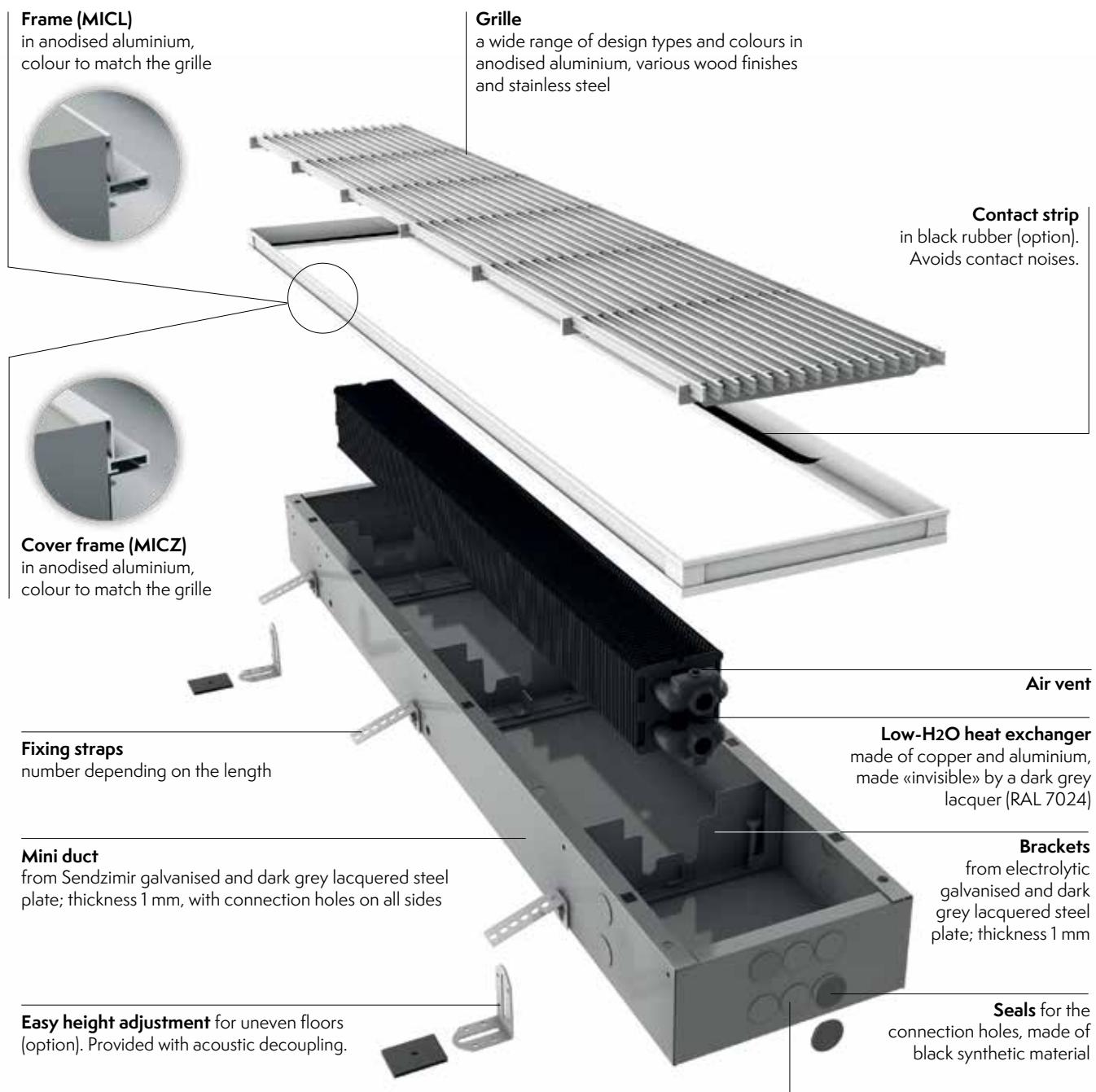
The Mini Canal is supplied completely mounted and ready for use. Suitable for installation onto rough concrete subfloors, in floating or suspended floors, or even into existing trenches. Optional 'Z' profile cover frame for mounting on the finished floor. If this isn't possible, the cover frame can be detached and be replaced when desired. The cover frame allows the seam between the floor and the trench to be covered.

Installation

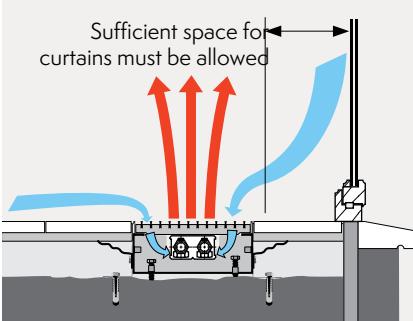
- Simple installation, with no on site assembly or joining of finned tubes.
- Position level on the finished floor using fixing straps or optional height control adjusters.
- Insert the pipework and close the opening.
- If necessary, provide an extra pipe for the thermostat head with remote control.
- Test the pressure of the installation.
- Finish the floor.

MINI CANAL

Composition



OPERATING PRINCIPLE



EVEN COMFORT TEMPERATURE

The downward cold air flow associated with glazed façades often causes discomfort. Mini Canal ensures a warm air curtain: the cold air layer from the glass and the cooler return air on the floor are drawn in, heated and mixed with the warmer upper air so a balanced and even comfort temperature is achieved.

HEIGHT 90 OUTPUT TABLES

Dimensions (in mm)

MINW.HHH LLL TT.XXX

	B 140	B 180	B 260	B 340	B 420
L mm	Watts	Watts	Watts	Watts	Watts
1100	75/65	75/65	75/65		
1100	152	180	237		
1300	190	225	296		
1500	229	271	356		
1700	267	316	415		
1900	304	360	474		
2100	342	406	534		
2300	381	451	593		
2500	419	496	652		
2700	457	541	711		
2900	495	586	771		
3100	533	631	830		
3300	571	676	889		
3700	647	767	1008		
4100	723	856	1126		
4500	800	947	1245		
4900	875	1037	1363		
				307	445
				385	555
				462	666
				538	778
				615	888
				692	1000
				769	1111
				846	1221
				923	1333
				1000	1444
				1076	1555
				1154	1666
				1307	1888
				1461	2111
				1615	2332
				1769	2555

HEIGHT 110 OUTPUT TABLES

Dimensions (in mm)

MINW.HHH LLL TT.XXX

	B 140	B 180	B 260		B 340	B 420
L mm	Watts	Watts	Watts		Watts	Watts
1100	175	207	279		363	510
1300	218	259	349		454	638
1500	262	310	420		544	766
1700	306	363	489		636	893
1900	349	414	559		726	1021
2100	393	466	629		817	1148
2300	437	518	699		908	1276
2500	480	569	769		998	1404
2700	524	622	839		1090	1531
2900	568	673	909		1180	1659
3100	612	725	978		1271	1786
3300	655	777	1048		1362	1914
3700	743	881	1188		1544	2169
4100	830	984	1328		1725	2424
4500	917	1087	1468		1906	2680
4900	1005	1191	1608		2088	2935

HEIGHT 140 OUTPUT TABLES

Dimensions (in mm)

MINW.HHH LLL TT.XXX

L mm	B 140 Watts	B 180 Watts	B 260 Watts		
	75/65	75/65	55/45	B 340 Watts	B 420 Watts
1100	198	N/A	N/A	345	
1300	248	N/A	N/A	431	
1500	298	N/A	N/A	516	
1700	347	N/A	N/A	603	
1900	397	N/A	N/A	689	
2100	446	N/A	N/A	775	
2300	496	N/A	N/A	861	
2500	546	N/A	N/A	947	
2700	595	N/A	N/A	1034	
2900	645	N/A	N/A	1119	
3100	694	N/A	N/A	1206	
3300	744	N/A	N/A	1292	
3700	843	N/A	N/A	1464	
4100	942	N/A	N/A	1636	
4500	1042	N/A	N/A	1808	
4900	1141	N/A	N/A	1980	
				470	633
				587	792
				705	950
				822	1108
				940	1267
				1057	1425
				1175	1583
				1292	1742
				1409	1900
				1527	2058
				1644	2217
				1762	2375
				1997	2692
				2232	3008
				2467	3325
				2702	3642

HEIGHT 190 OUTPUT TABLES

Dimensions (in mm)

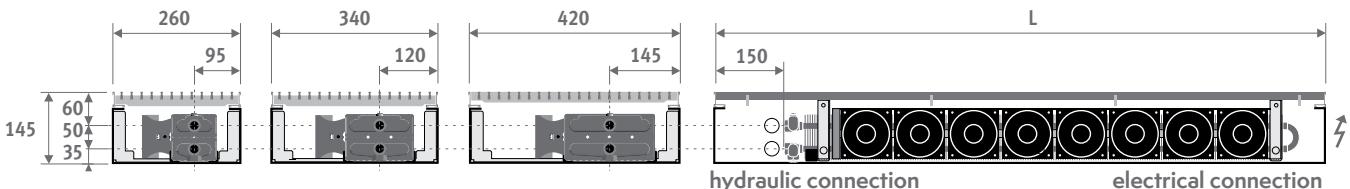
MINW.HHH LLL TT.XXX

L mm	B 260 Watts 75/65	B 340 Watts 75/65	B 420 Watts 75/65
1100	392	530	728
1300	489	662	909
1500	587	795	1091
1700	685	927	1273
1900	782	1059	1455
2100	881	1192	1637
2300	978	1324	1819
2500	1076	1457	2001
2700	1174	1590	2182
2900	1271	1721	2365
3100	1370	1854	2547
3300	1467	1987	2728
3700	1663	2252	3092
4100	1859	2516	3456
4500	2054	2781	3820
4900	2250	3046	4184

MINI CANAL DBE SUMMARY

Product Summary

Building in-opening: height H + 10 mm,
length L and width B + 5 mm!



COMPOSITION

Grille

a wide range of design types and colours
in anodised aluminium, various
wood finishes and stainless steel

Connection options

230 V/12 V

Pre-configured and assembled
Dynamic Product Controller
Control with touch operation
(indication by LED's) and sensor for
water temperature.
Power supply 24 VDC

Pre-mounted DBE units

Low-H₂O heat exchanger
made of copper and aluminium,
made "invisible" by a dark grey
lacquer (RAL 7024)

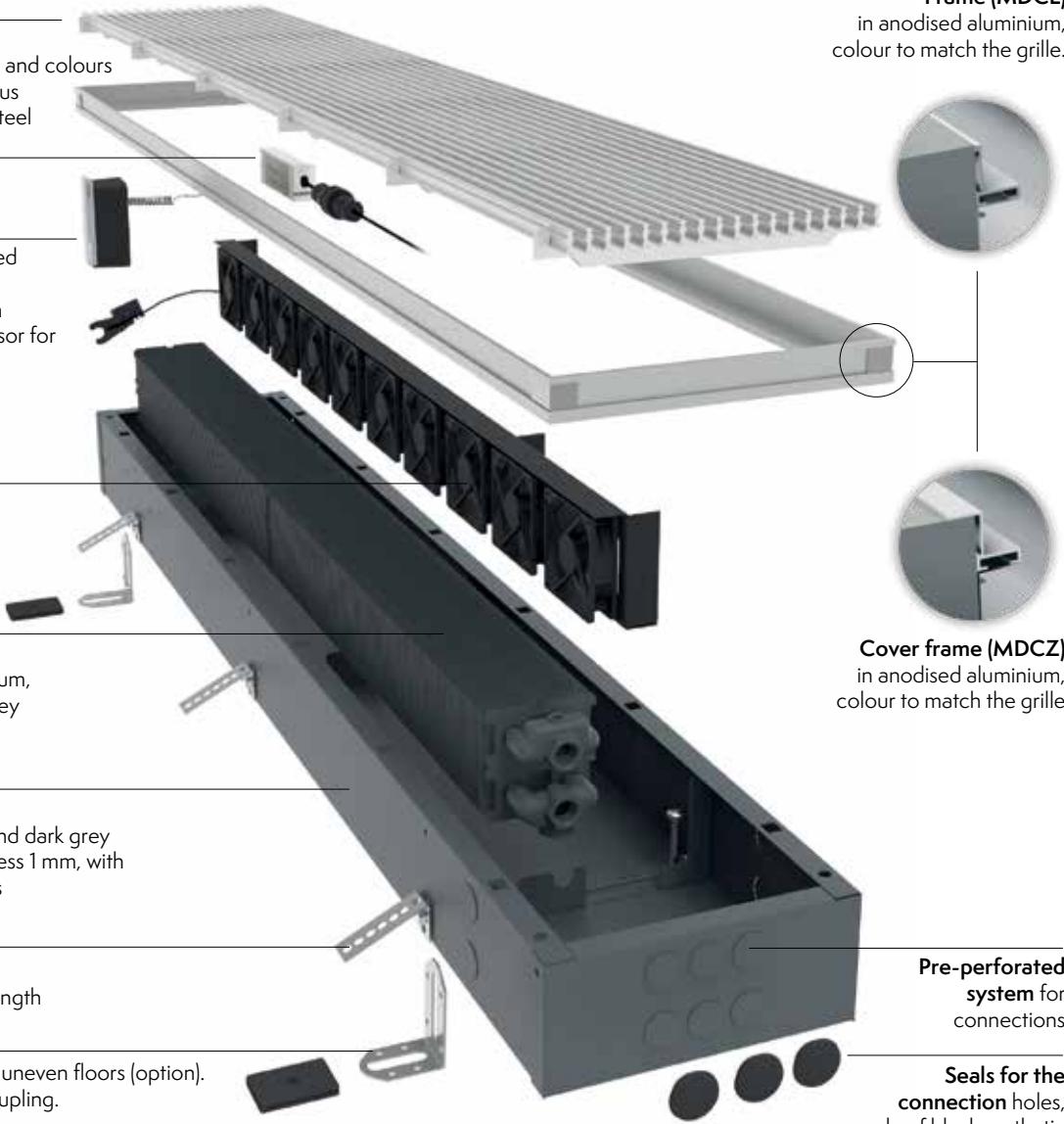
Mini duct

from Sendzimir galvanised and dark grey
lacquered steel plate; thickness 1 mm, with
connection holes on all sides

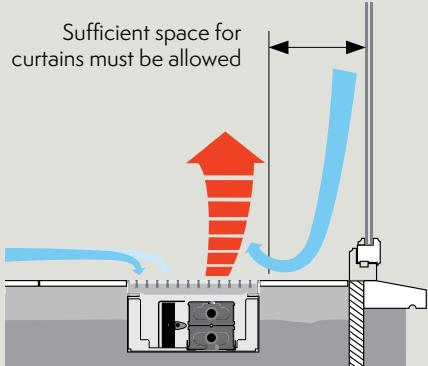
Fixing straps

number depending on the length

Easy height adjustment for uneven floors (option).
Provided with acoustic decoupling.



OPERATING PRINCIPLE



EVEN COMFORT TEMPERATURE

The downward cold air flow associated with glazed façades often causes discomfort. Mini Canal ensures a warm air curtain: the cold air layer from the glass and the cooler return air on the floor are drawn in, heated and mixed with the warmer upper air so a balanced and even comfort temperature is achieved.

⚠ Heat exchanger always on the window side !



MINI CANAL DBE

Composition

ORDERING CODE

WITH FRAME (L-PROFILE)

code height length width grille
MICL .014 110 26 ./XXX
 fill in grille code

WITH COVER FRAME (Z-PROFILE)

code height length width grille
MDCZ .014 110 26 ./XXX
 fill in grille code

Mini Canal is also available with a cover frame. The cover frame facilitates a perfect finish with renovations or wooden floors.

DELIVERY

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

INSTALLATION

The Mini Canal DBE is completely mounted and ready for use. Suitable for installation onto rough concrete subfloors, in floating or suspended floors, or even into existing trenches. Optional 'Z' profile cover frame for mounting on the finished floor. If this isn't possible, the cover frame can be detached and be replaced when desired.

The cover frame allows the seam between the floor and the trench to be covered.

Installation

- Simple installation, with no on site assembly or joining of finned tubes.
- Position level on the finished floor using fixing straps or optional height control adjusters.
- Insert the pipework and close the opening.
- If necessary, provide an extra pipe for the thermostat head with remote control.
- Test the pressure of the installation.
- Finish the floor.

HYDRAULIC CONNECTION

- The heat exchanger has to be connected at the left side of the duct. This can be done in several ways:
- to the central control system, temperature regulators via room thermostat or BMS (no valve in the duct).
- with manual valve in the duct.
- with thermostatic valve in the duct: in this case it is best to provide a head with remote control outside the duct. Control is simple and the thermostat will provide better measurement of the ambient temperature.

STANDARD ASSEMBLED DYNAMIC PRODUCT CONTROLLER (JDPC)

Multifunctional controller for dynamic heating and cooling devices provided with one or more built-in fans. The Dynamic Product Controller is preconfigured and assembled inside the device.

- indication of operating mode by LEDs
- control with touch operation and sensor for water temperature, preconfigured and assembled
- power supply 12 VDC
- ventilator settings:
0 summer mode
0 heating: 3 speeds
(operates at water temperature >28°C, can easily be modified)
- 0-10 V input for building management system/thermostats / DPC.MD71

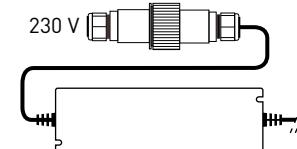
ELECTRIC CONNECTION

Connection always at the right side of de duct

Option VAC:

for connection to 230 VAC with waterproof power and cable gland in the duct.

Fill up ordering code with /VAC

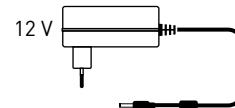


CODE

MDCL.HHH LLL BB/
XXX/VAC

Option VDC:

plug-in wall power supply 230 VAC/12VDC.
 Fill up ordering code with /VDC



CODE

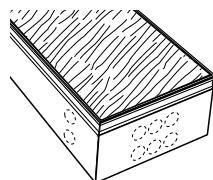
MDCL.HHH LLL BB/
XXX/VDC



MINI CANAL DBE

Options

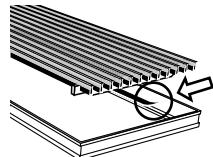
COVER PLATE



In fibreboard, thickness 22 mm. Protects the duct against contamination and damage during construction works.

code length width
ORDERING CODE 7691 .000 110 026

CONTACT STRIP

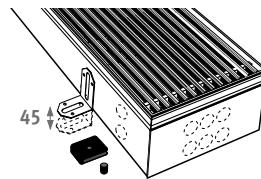


For aluminium and wood grilles (not for stainless steel). Black adhesive rubber strip, thickness 0.5 mm. To avoid contact noises.

Order the number of rolls required according to the circumference of the frame: $(B + L) \times 2$.

CODE
7690.02 Roll 6 metre

HEIGHT CONTROL

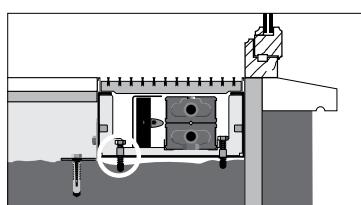


Simple height control for uneven subfloors. Provided with acoustic decoupling.

CODE
7690.01 height control 0 - 45 mm
height control 45 - 130 mm

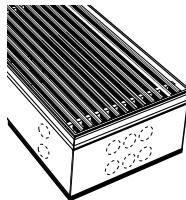
Recommended numbers for length:

1 set =	1100 mm	2 kits
	1300 > 1900 mm	3 kits
	2100 mm	4 kits
	2300 > 3100 mm	5 kits



The height control option is always provided with extra adjusting screws in order to install the duct flat against the window frame.

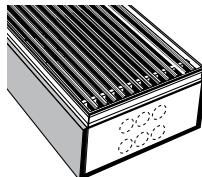
BASE INSULATION



In dark grey extruded EPDM, thickness 5 mm. Also to avoid transfer of noise when used on upper storeys. (Not available separately!)

code length width
ORDERING CODE 7692 .000 110 026

3-SIDED INSULATION

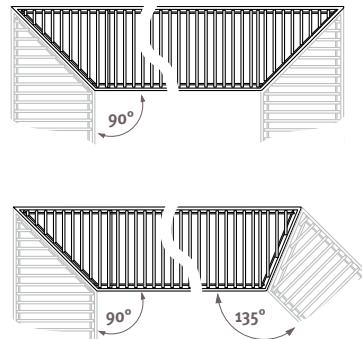


In dark grey extruded EPDM, thickness 5 mm. (Not available separately!)

code height length width
ORDERING CODE 7693 .014 110 026

CORNERS 135° OR 90°

For wooden and aluminium grilles.



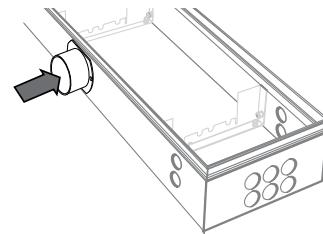
To order corner elements, please contact Versatile at sales@versatile.ie Ducts and grilles delivered with mitre joints +connecting pieces for invisible mounting.

DIFFERENT HEIGHT, WIDTH OR LENGTH

Contact Versatile

AIR REFRESHMENT

MOUNTED SPIGOT CONNECTOR FOR AIR SUPPLY CHANNEL

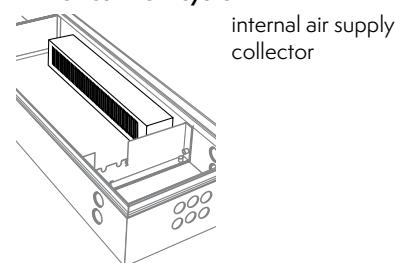


- /V1 1 spigot connection ø 80 mm
/V2 2 spigot connections ø 80 mm

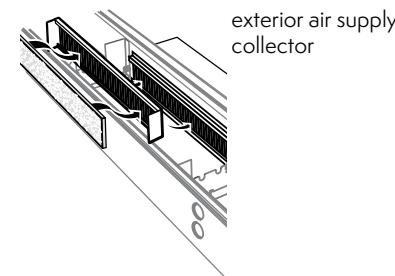
Add /V1 or /V2 to the Mini Canal code.
Example: MDCL. 014 110 26 /XXX /V1

OTHER SYSTEMS

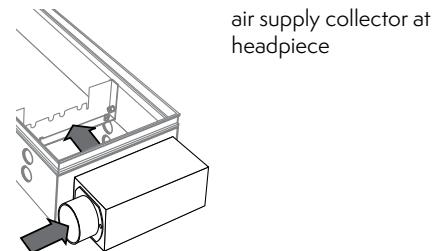
Air refreshment system 2



Air refreshment system 3



Air refreshment system 4



HEIGHT 190 OUTPUT TABLES

Dimensions (in mm)

Outputs in medium mode.

MINW.HHH LLL TT.XXX

L mm	B 260			B 340		B 420	
	Watts 75/65	Watts 55/45	Watts 35/30	Watts 75/65	Watts 35/30	Watts 75/65	Watts 35/30
1100	1505	847	316	1944	421	2279	496
1300	1949	1097	410	2519	546	2953	643
1500	2379	1339	500	3076	667	3607	785
1700	2802	1577	589	3622	785	4249	925
1900	3228	1817	679	4171	904	4897	1066
2100	3285	1849	691	4247	920	4990	1086
2300	3658	2059	769	4772	1034	5609	1221
2500	4095	2305	861	5287	1146	6217	1353
2700	4491	2528	944	5794	1256	6816	1483
2900	4881	2748	1026	6295	1364	7407	1612
3100	5272	2968	1108	6793	1472	7997	1740

Output at 20°C room temperature.

TECHNICAL DATA

ACTIVATORS		SOUND PRESSURE*			RATED INPUT			AIR FLOW		
L	Number	max.*	dB(A) med.*	min.*	max.	Watts med.	min.	max.	m³/h med.	min.
1100	6	35.7	30.0	26.0	11.0	9.4	8.4	230	190	166
1300	8	37.0	30.0	26.0	14.7	12.0	10.8	306	242	212
1500	10	38.0	30.0	26.0	18.3	14.6	13.2	383	293	257
1700	12	38.8	30.0	26.0	22.0	17.2	15.5	460	343	301
1900	14	39.4	30.0	26.0	25.7	19.7	17.8	536	391	343
2100	14	39.4	30.0	26.0	25.7	19.7	17.8	536	391	343
2300	16	40.0	30.0	26.0	29.3	22.2	20.0	613	438	385
2500	18	40.5	30.0	26.0	33.0	24.6	22.2	689	485	426
2700	20	41.0	30.0	26.0	36.7	27.0	24.4	766	531	467
2900	22	38.1	30.0	26.0	36.8	29.4	26.5	757	576	506
3100	24	35.0	30.0	26.0	36.4	31.8	28.7	733	621	546

* Noise measurement according to ISO 3741:2010 with an assumed room attenuation of 8 dB(A) / room volume 75 m³ / reverberation time 0.5 sec.



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-H₂O technology * the heat exchanger and casing are supplied fully assembled in one piece for easy installation.



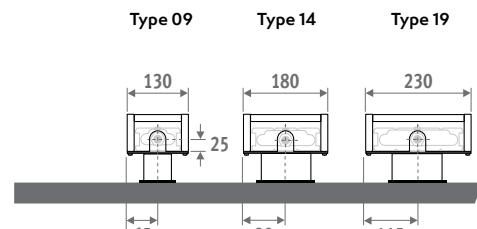
Versatile
Enrich Your Space

MINI FREE STANDING

Dimensions (in mm)

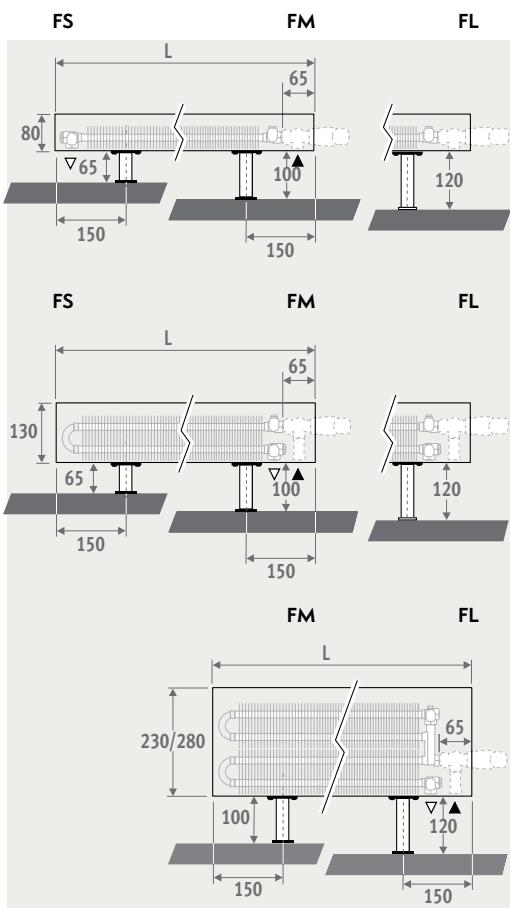


HEIGHT 008



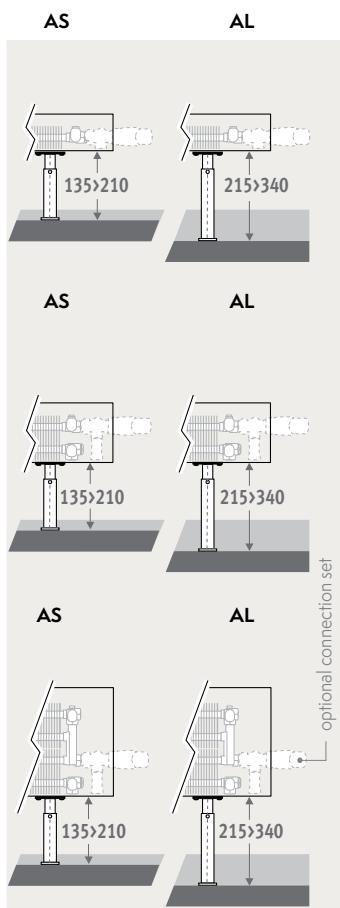
FIXED FEET

for mounting on finished floors

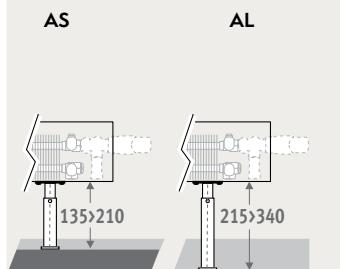
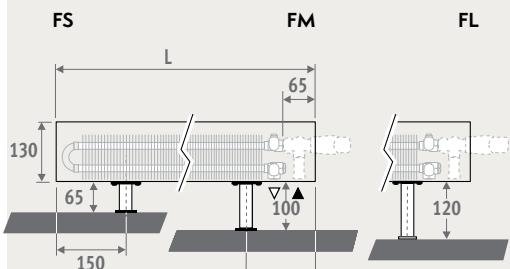
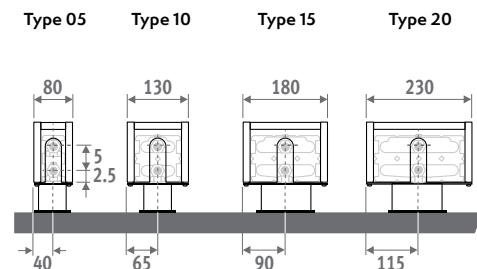


ADJUSTABLE FEET

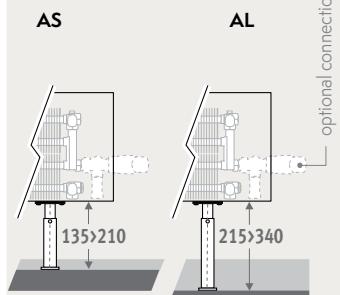
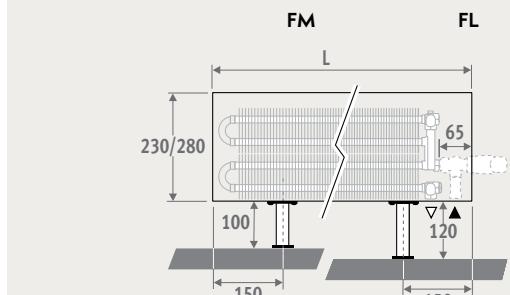
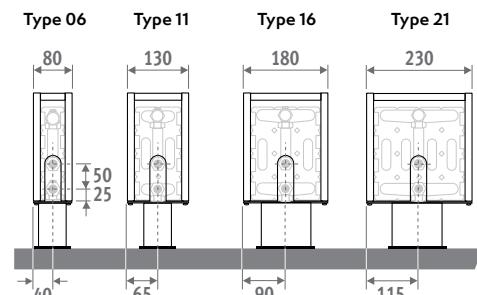
for mounting on concrete floors



HEIGHT 013



HEIGHT 023 / 028



optional connection set

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 cm
FL: fixed feet, height 120 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

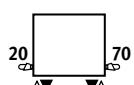
Other colours: see colour chart.

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.

ORDERING CODE

ADJUSTABLE FEET

code height length type colour foot

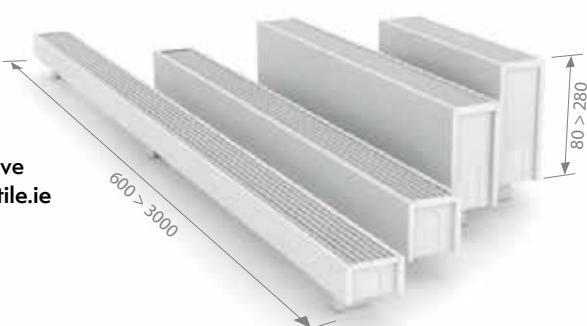
MINF .008 060 09 .XXX /XX

fill in colour code

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

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 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

MINF.HHH LLL TT.XXX/XX

L mm	HEIGHT 80			HEIGHT 130			HEIGHT 230			HEIGHT 280		
	Type	Watts	Watts	Type	Watts	Watts	Type	Watts	Watts	Type	Watts	Watts
		75/65	55/45		75/65	55/45		75/65	55/45		75/65	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
1400	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
	14	972	471	15	1186	575	16	1831	872	16	2006	954
	19	1334	647	20	1673	812	21	2381	1128	21	2631	1244
1600	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
	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

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	Watts	Type	Watts	Watts	Type	Watts	Watts	Type	Watts	Watts
		75/65	55/45		75/65	55/45		75/65	55/45		75/65	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
1400	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
	14	972	471	15	1186	575	16	1831	872	16	2006	954
	19	1334	647	20	1673	812	21	2381	1128	21	2631	1244
1600	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
	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

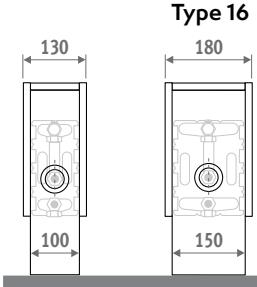




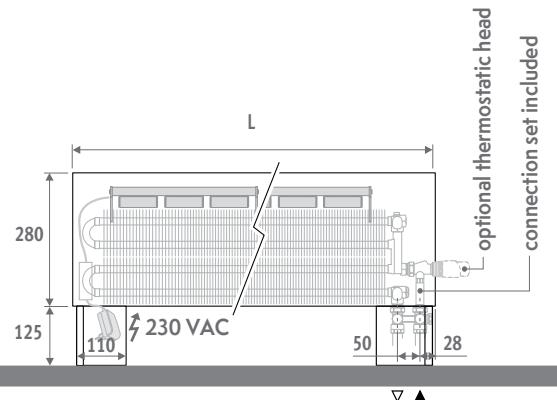
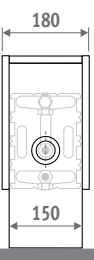
MINI FREESTANDING DBE

Dimensions (in mm)

Type 11



Type 16



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



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	Watts	Watts	Watts
810	11	871	417	1171	703
	16	1146	549	1626	976
1010	11	1089	522	1689	1013
	16	1433	686	2393	1436
1210	11	1307	626	1907	1144
	16	1720	824	2680	1608
1410	11	1525	730	2425	1455
	16	2006	961	3446	2068
1810	11	1960	939	3160	1896
	16	2579	1235	4499	2699
2410	11	2614	1252	4414	2648
	16	3439	1647	6319	3791

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.

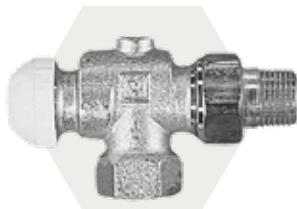


CONNECTION SETS & ACCESSORIES

Pipe centres vary depending on valve connections. Contact sales@versatile.ie for pipe centre dimensions.

FLOOR CONNECTION GB

Valves for Versatile Products. Floor Connection GB. If copper pipes please add 6292-21 Herz Copper Nuts and Olive



7728-91

Herz 1/2" Reverse Angled
TRV

3723-41

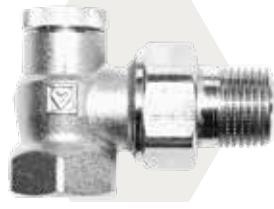
Herz 1/2" Straight
Lockshield

7260-06

Herz White Thermostatic
Head

WALL CONNECTION GB

Valves for Versatile Products. Wall Connection GB. If copper pipes please add 6292-21 Herz Copper Nuts and Olive



7728-91

Herz 1/2" Reverse Angled
TRV

3724-41

Herz 1/2" Angled
Lockshield

7260-06

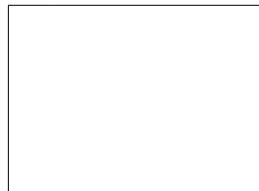
Herz White Thermostatic
Head

COLOUR CHART

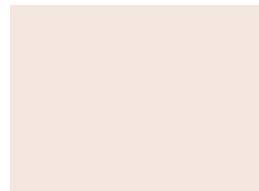


Maxi 2020 is available in a smooth glossy finish in the following colours.

233 Traffic white RAL 9016



201 White RAL 9010



205 Pergamon



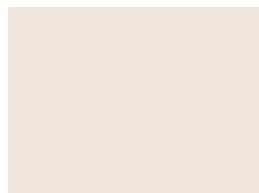
223 Natural



212 Bahama



234 Warm brown RAL 070 60 10



202 Off-white RAL 9001



235 Traffic yellow RAL 1023



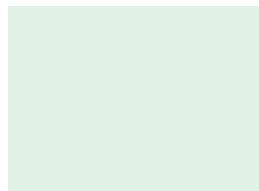
236 Orange



211 Flaming Red RAL 3000



226 Ruby red RAL 3003



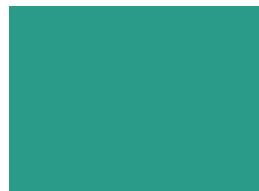
220 Aegean



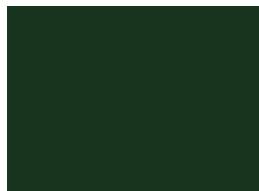
237 Yellow green RAL 110 80 60



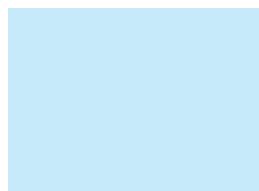
238 Green



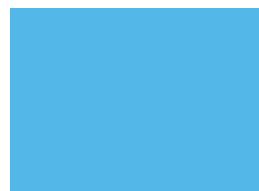
221 Calypso



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



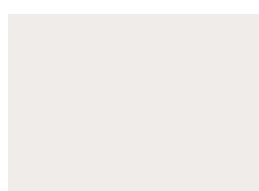
243 Magenta RAL 010 50 50



219 Violet RAL 4008



244 Purple



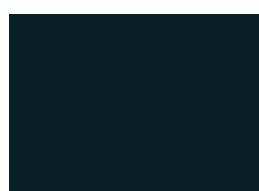
228 Classic white



203 Light grey RAL 7035



209 Dark grey RAL 7011



231 Anthracite grey RAL 7016



204 Black RAL 9005

Versatile 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.

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



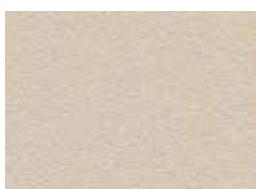
045 Concrete grey



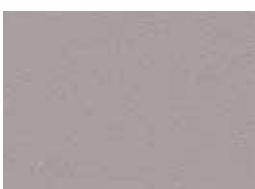
001 Sandblast grey



018 Pearl black



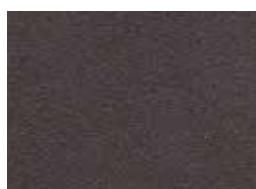
037 Cream



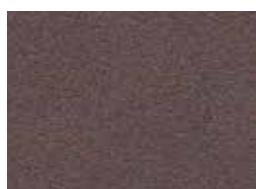
039 Grey brown



038 Cappuccino

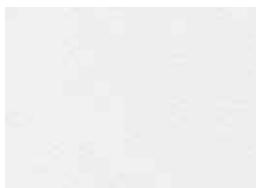


042 Chocolate



017 Pearl brown

FINE TEXTURE



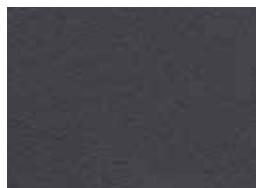
053 Pure white



026 Platinum grey



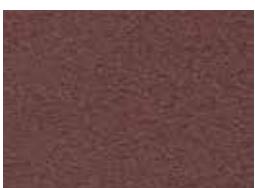
028 Granite grey



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.

OXYGEN

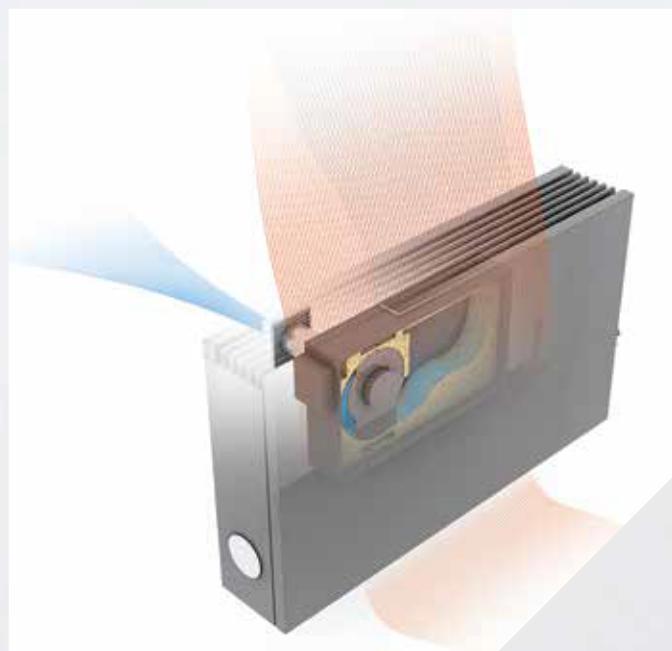
Demand controlled heating and mechanical ventilation

Jaga Oxygen works alongside our Low-H₂O radiators to deliver an energy-efficient, intelligent and fully programmable heating and ventilation solution.

This supply and extract system brings in fresh air at low-levels and extracts stale room air at high-levels creating optimal air movement and high indoor air quality (IAQ).

Due to its modular design, this system is particularly effective for rooms with high occupancy such as classrooms, and rooms of lower occupancy such as offices and care homes.

Oxygen delivers clean, filtered, fresh air on demand and efficiently in buildings of any age or type.



Why choose demand controlled mechanical ventilation?

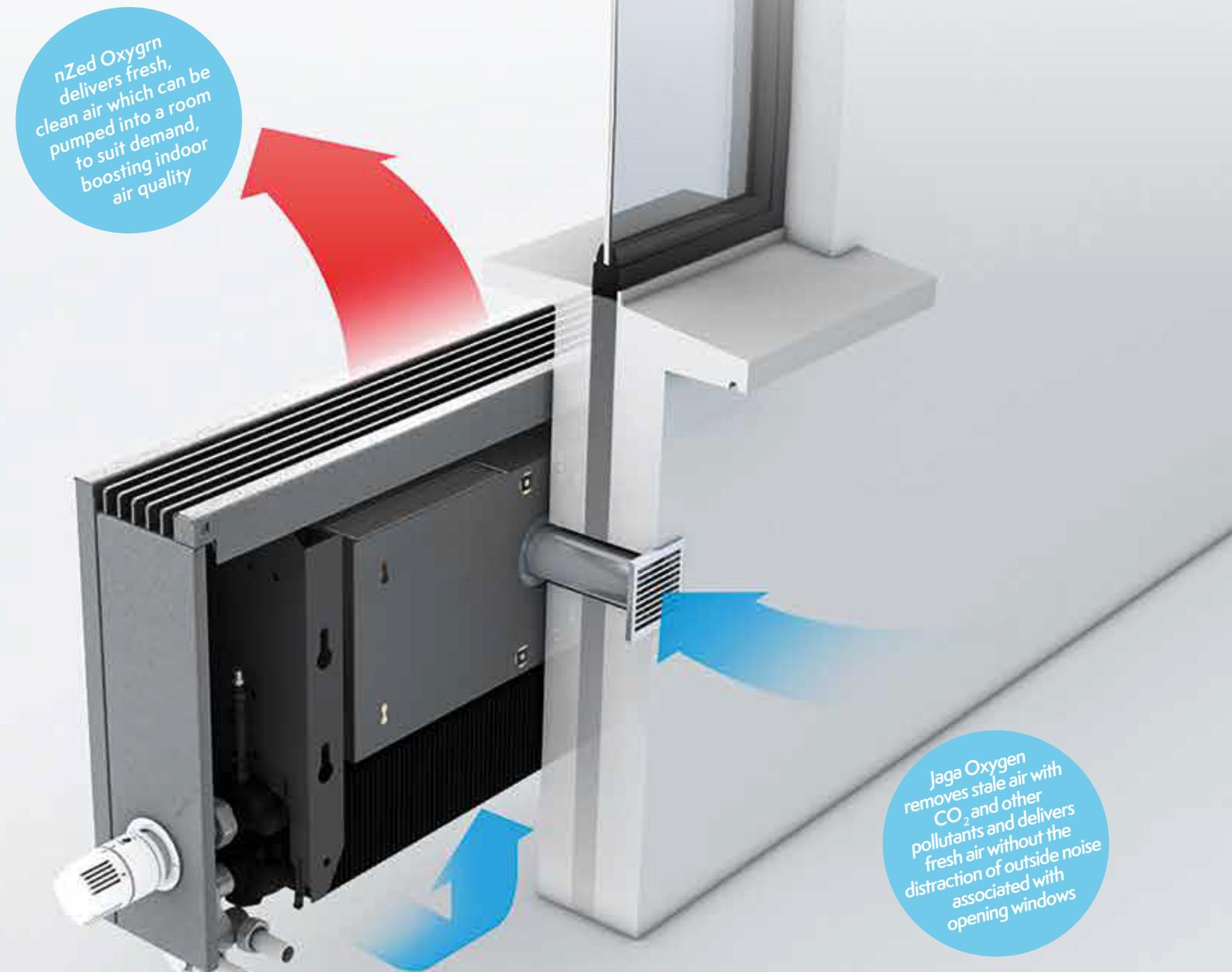
Demand Controlled Mechanical Ventilation only vents fresh filtered air when required, meaning that it is the most energy efficient method of ventilation whilst also eliminating the drawbacks of draughts and noise pollution.

CO₂ levels are constantly monitored meaning that if occupancy levels rise or fall the system will draw in more or less fresh air, ensuring good indoor air quality is always present.

This control method also allows the system to react to other parameters such as temperature, thus also increasing comfort.

Jaga Oxygen is an energy efficient, innovative and highly responsive heating and ventilation solution providing automated:

- CO₂ monitoring
- Clean, fresh air on demand – adapting to the changing requirements of the room
- Heating even at low water temperatures
- Free night-time 'cooling' for energy efficient secure summer time cooling



LST ▪ 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 ΔT 50 are the exact outputs, measured in accordance with EN442. An average correction factor is given in this table for all other ΔT outputs, applicable for all dimensions. These correction factors are to be used for guidance only.

LST 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 ΔT 50 are the exact outputs, measured in accordance with EN 442. An average correction factor is given in this table for all other ΔT outputs, applicable for all dimensions. These correction factors are to be used for guidance only.

OTHER PRODUCTS

WALL MOUNTED



PLAY

INSTALLATION IN
A WALL RECESS



nZEB



MINI WALL



FREESTANDING

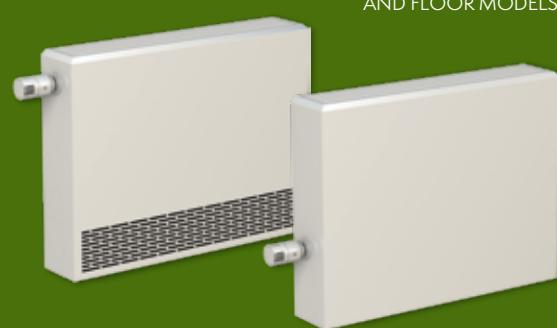


MINI



MINI DBE

GUARDIAN
(AVAILABLE IN WALL
AND FLOOR MODELS)

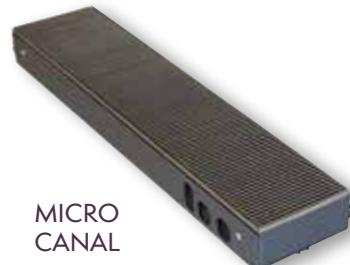


MAXI 2020
(AVAILABLE IN WALL
AND FLOOR MODELS)

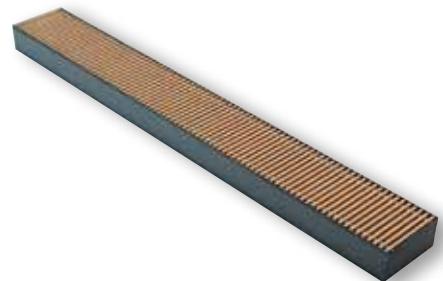
TRENCH HEATING



MINI CANAL
DBE



MICRO CANAL



CLIMA CANAL

OXYGEN



THE OXYGEN SYSTEM WORKS WITH
ANY OF OUR LOW WATER CONTENT
PRODUCTS
AND WALL-MOUNTED PRODUCTS.



MAXI
KLINIK LST

VERSATILE CPD'S

At Versatile Group, we are committed to the continuous professional development of our peers, so we developed a series of CPD seminars relevant to the challenges mechanical service engineers and installers face on a daily basis.

- The Evolution of Low-H2O Radiators
- Designing Radiant Heating and Cooling Systems
- Design and Specification of Fan Coils
- Oxygen for Heating and Ventilation in Schools
- Façade Heating & Cooling

Contact sales@versatile.ie for CPD Enquiries



- Award winning Low-H2O technology
- Outstanding performance with low temperature systems
- Super-fast response times to changes in ambient temperature
- No radiant heat loss to the wall
- Lightweight and easy to install
- Valve options can be concealed in casing
- Split deliveries

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