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CLIMATE DESIGNERS

Heating

Light cooling

Breeze

LST AND LST HYBRID

LOW SURFACE TEMPERATURE RADIATORS FOR HEATING AND COOLING

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Climate change and evolution of construction techniques demand new ecological solutions for heating, cooling and ventilation.

New technologies have to consume far less energy. They have to ensure a better indoor climate without damaging the outdoor climate. Traditional systems with fire and carbon emissions have to be extinguished. We have to evolve towards a green flame and build a sustainable path towards a better future. Choosing the sustainable path is no longer a matter of choice, it's an obligation.

Always honouring its values, Jaga Climate Designers continually look for the most ecological solutions for heating, cooling and ventilation.

A COMFORTABLE INDOOR CLIMATE YEAR ROUND WITH MINIMAL IMPACT ON THE OUTDOOR CLIMATE

WHY CHOOSE LST RADIATORS?

Powerful, efficient heating with safety a priority

Jaga offers the UK's widest selection of low surface temperature (LST) radiator sizes and options.

LST radiators are relied upon to provide high-efficiency heating in places where safety is paramount. Their outer casings remain cool to touch, even at high flow temperatures, making them the safest choice for retirement communities, care homes, health authorities, government departments, nurseries, schools, leisure centres and public buildings.

They help protect vulnerable people, the elderly, and young children from severe burns that can be caused from prolonged contact with high temperature surfaces, and Jaga's LST radiators incorporate a number of other safety features to reduce the risk of injury.

The surface of Jaga's LST radiators will never exceed 43°C thanks to a small gap between the heat exchanger inside the radiator and the surface of the casing.

By comparison, traditional steel panel radiators can reach surface temperatures of 75°C or higher.

Jaga LST radiators are the most energy-efficient and safest choice for:

- Educational Establishments
- Sheltered Housing
- Hospitals & Healthcare
- Prisons & Secure Facilities
- Care & Nursing Homes
- Public & Government Buildings
- Hotels & Leisure Centres
- Nurseries & Primary Schools

High efficiency, compact size

Jaga's LST range includes our proven Low-H_2O technology. Low-H_2O radiators are lightweight (using only a tenth of the water of standard steel panel radiators when filled); smaller in size; faster to respond and generate lower fuel bills.

Our 30-year guarantee means reduced lifetime repair and replacement costs and peace of mind for the customer.

Exceeding regulations to maximise safety

Designed to conform to NHS Estates Health Guidance Notes on surface temperature and casing design, Jaga's LSTs feature a number of safety features: an enclosed heat emitter; bottom grilles; concealed valves and pipework; chamfered corners; and simple locking devices to discourage tampering.

Independently certified

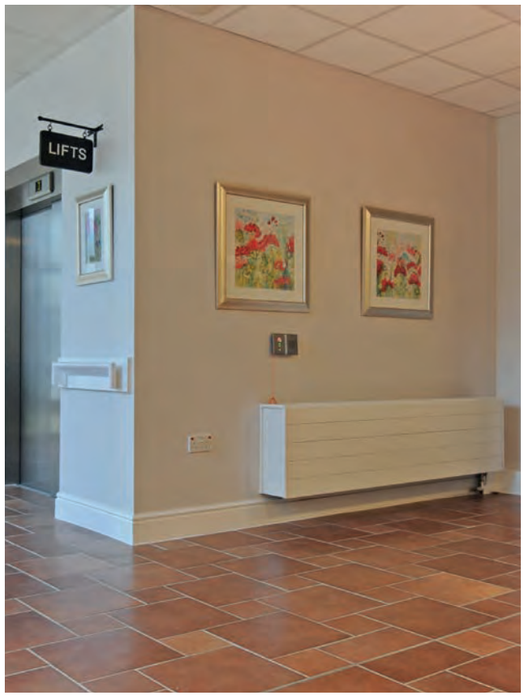
They are tested and certified to BS EN 442 standards, ensuring proven performance and quality.

Wide range, flexible options

Jaga offers the UK's widest range of LST sizes, styles and finishes, with wall-mounted, freestanding and continuous options available to suit your application. We can split deliveries, sending heating elements, brackets and valves first and casings later to accommodate installation schedules and avoid unnecessary storage or damage of units on site.

Easy installation, minimal maintenance

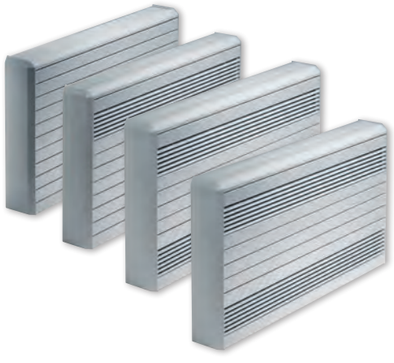
Our LSTs are specifically designed to ensure quick installation, and easy cleaning and maintenance that does not disturb plumbing. Features include anti-bacterial coatings, detachable grilles and independently removable casing.



THE JAGA LST PORTFOLIO

Our comprehensive range offers you the optimum solution for all applications

For information on all of our LST range please contact customer services on **01531 631533** or **www.jaga.co.uk**

Product	Options	Recommended Application	Key Features	Sizes	Options	Notes
TEMPO LST 	- Wall-mounted above skirting - Freestanding - Freestanding with extended foot	Care & Nursing Homes Sheltered Housing Educational Establishments	- Rounded corners - Easy handling and storage - Great value for money - Damaged casing parts easily replaced - Split deliveries (if required)	Wall-mounted model: - Heights 200 to 900mm - Lengths 400 to 3000mm Freestanding model: - Heights 200 to 500mm - Lengths 400 to 3000mm	- **Hybrid** - for boosted outputs and optional cooling - High level valve - Casing locks - Pencil-proof grille - Continuous casings - Twin emitter - Oxygen ventilation system - Only available in white	- Flat packed for reduced storage - For Tempo Freestanding both fixed and adjustable length feet area are available
GUARDIAN LST 	- Wall-mounted above skirting (WT) - Wall-mounted with casing to finished floor level (FT)	Care & Nursing Homes Sheltered Housing Educational Establishments Public & Government Buildings Hotels & Leisure Centres Hospitals & Healthcare	- One piece casing - Rounded corners - Casing locks - Knock-outs for valves and skirting (FT only) - Many sizes held as stocked items for fast delivery - Split deliveries (if required)	WT model: - Heights 400 to 600mm - Lengths 440 to 2040mm FT model: - Heights 400 to 800mm - Lengths 440 to 2040mm	- **Hybrid** - for boosted outputs and optional cooling - High level valve - Oxygen - Pencil-proof grille - Oxygen ventilation system - Only available in white	- With casing to finished floor level, all pipework is covered preventing access to the underside (FT)
MAXI 2020 LST 	- Wall-mounted above skirting - Wall fixed/floor mounted - Top or front face grilles WF - Wall model with front grille WT - Wall model with top grille FF - Floor model with two front grilles FT – Floor model with top grille	Care & Nursing Homes Prisons & Secure Facilities Hospitals & Healthcare Any Heavy Duty Applications Hotels & Leisure Centres Educational Establishments	- Super strong casing - Rounded corners - Casing locks - Split deliveries (if required)	WT and WF models: - Heights 440 to 740mm - Lengths 630 to 2030mm FT and FF models: - Heights 440 to 740mm - Lengths 630 to 2030mm	- **Hybrid** - for boosted outputs and optional cooling - High level valve - Range of colours - Anti-bacterial coating - Anti-ligature grilles (FT/FF) - Continuous casings - Pencil-proof grille (WT/FT) - Oxygen ventilation system - Available in a range of colours	- Floor model with casing to finished floor level, all pipework is covered preventing access to the underside (FF/FT) - 1.5mm thick steel 'U' channels riveted together for an ultra strong front panel

LOW-H_2O: LIGHTER, FASTER, MORE EFFICIENT

THE **LOW WATER CONTENT** RADIATOR

Jaga's Low-H_2O radiators contain 90% less water than that of a steel panel radiator, so they are faster to heat up and cool down.

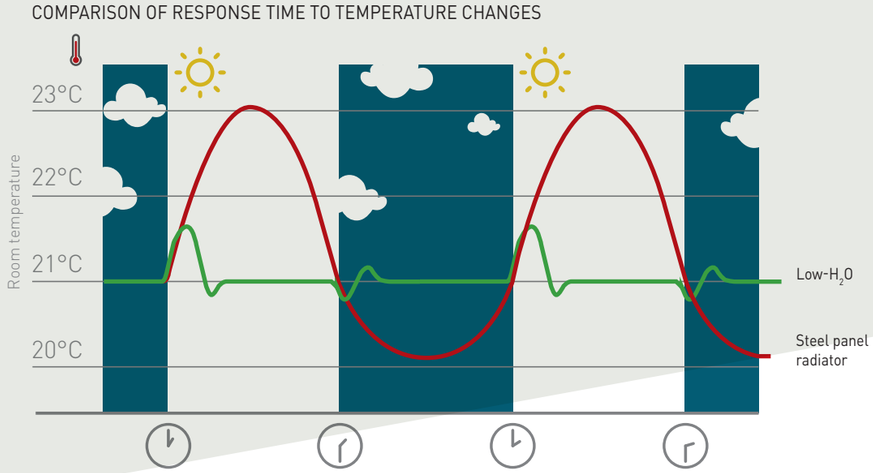
This means Low-H_2O radiators react faster to the occupants' needs as well as changes to ambient temperature. This ensures better comfort with less energy consumption, no wasteful overheating and reduced demand on the heating system itself. They also have no heavy steel panels that require pre-heating, are far lighter to install and remain much lighter when fully filled during usage.

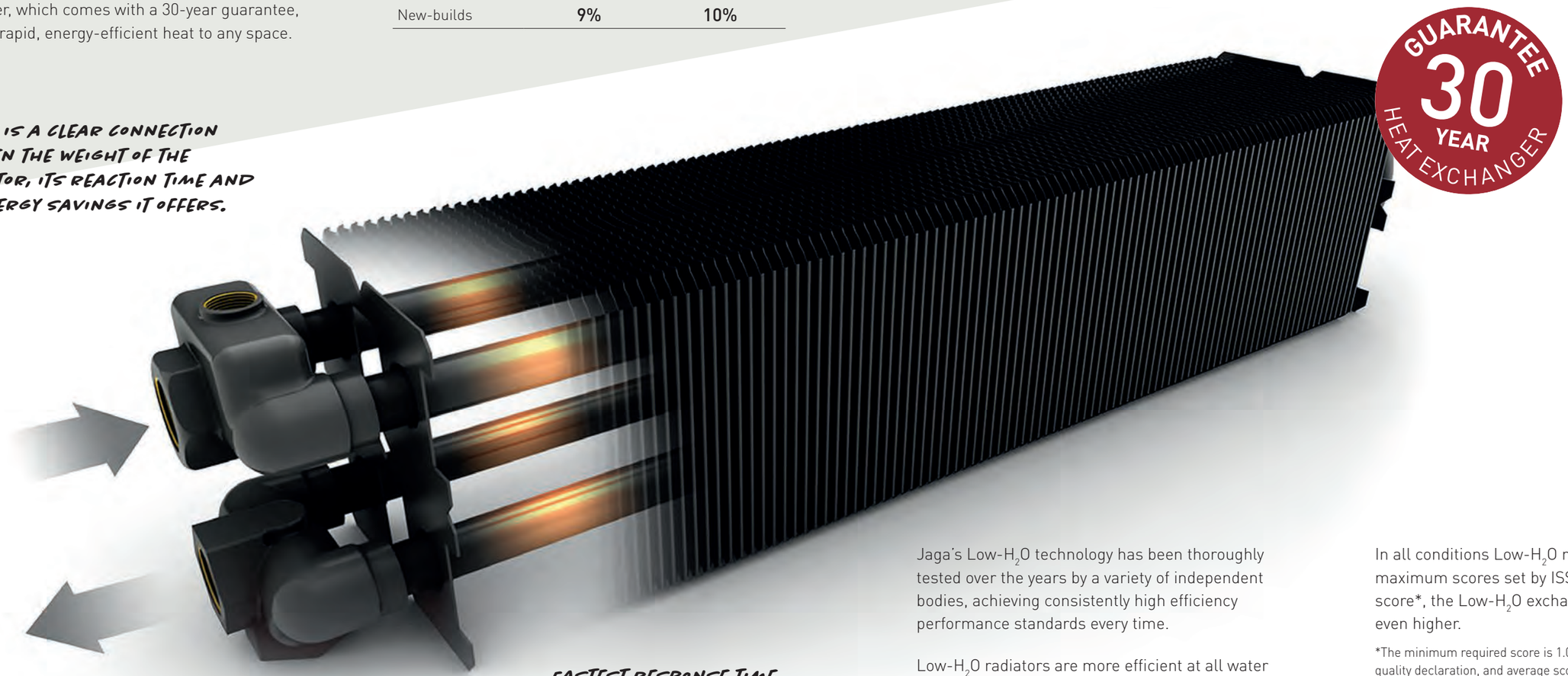
The ultra-modern aluminium and copper heat exchanger, which comes with a 30-year guarantee, provides rapid, energy-efficient heat to any space.

Research by Dutch certification and testing body, KIWA, shows that Low-H_2O radiators are 9 to 16% more economical than a system with steel panel radiators, and at least 5% more economical than underfloor heating. They achieve the desired temperature faster with less heat wasted through unnecessary overheating.

Comparison Low-H_2O/panel radiators

	Water temp. > 50°C **Saving**	Water temp. ⩽ 50°C **Saving**
Renovation	**13%**	**16%**
New-builds	**9%**	**10%**





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

FASTEST RESPONSE TIME FOR MAXIMUM COMFORT.

RESPECT NATURE

Jaga's Low-H_2O technology has been thoroughly tested over the years by a variety of independent bodies, achieving consistently high efficiency performance standards every time.

Low-H_2O radiators are more efficient at all water temperatures, making them the perfect partner for renewable systems and boilers alike.

In all conditions Low-H_2O radiators achieve the maximum scores set by ISSO. Without a maximum score*, the Low-H_2O exchanger would achieve even higher.

*The minimum required score is 1.00 (100%) for Low-H_2O 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.

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-H_2O 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 Jaga Low-H_2O heating units.

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

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

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

** maximum heat capacity*

Heating **Cooling** **Breeze**

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 Jaga's technical team for more information.

FAQs

WHAT IS JAGA 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.

WHAT MAKES JAGA THE SUSTAINABLE CHOICE?

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. There is no Planet B. One of Jaga's company values is to respect nature, and this is at the heart of everything we do.

HIGHEST EFFICIENCY RATINGS

Jaga's Low-H_2O 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-H_2O 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.

"Low-H_2O radiators reduce the CO_2 emissions of an average house by about 1000 kg."

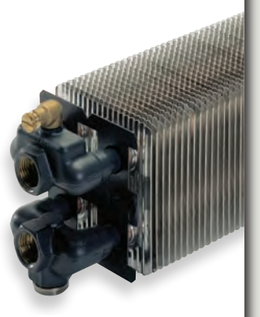
RESPECT NATURE

JAGA LOW-H_2O RADIATORS REDUCE WASTE

BEST LCA SCORE

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	Jaga Low-H_2O 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, and energy usage until the product is ultimately 'retired'. Governments are trying to standardise LCA systems and to integrate them into the legislation. Jaga 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. Jaga Low-H_2O radiators consistently score significantly better than other radiators or heating systems.

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TEMPO

Safe, subtle and classic design

- Jaga's most popular LST, widely specified in care homes and retirement living, educational establishments and sheltered housing.
- Designed to meet the NHS Estates safety guidelines for heat emitters.
- Widest range of sizes available in wall-mounted, freestanding and continuous models.
- Safe surface temperature.
- Efficient Low-H_2O technology with super conductive and ultra fast heat exchanger for low energy consumption and maximum heat emission – energy savings of up to 16%.
- Easy to assemble casing featuring the sectional front panel design.
- Twin power for better compensation of the downward cold air flow next to glazed façades or ventilation grilles.
- Suitable for an integrated valve and concealed connection.
- 30-year guarantee on the heat exchanger.
- Can offer cooling via Jaga's Dynamic Boost Hybrid (DBH) technology and ventilation via Jaga's oXygen system.

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TEMPO FREESTANDING

Warmth, safety and simplistic style

- The Jaga classic for rooms with glazed façades.
- Safe surface temperature.
- No wasteful heat loss from radiation through glazing.
- Efficient Low-H_2O technology with super conductive and ultra fast heat exchanger for low energy consumption and maximum heat emission.
- Suitable for integrated valve.
- Twin power for better compensation of the downward cold air flow next to glazed façades or ventilation grilles.
- A 30-year guarantee on the heat exchanger.
- Can offer cooling via Jaga's Dynamic Boost Hybrid (DBH) technology and ventilation via Jaga's oXygen system.

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TEMPO CONTINUOUS

Seamless warmth from wall-to-wall

- Jaga's innovative 'click' system allows for assembly of all components without tools.
- Heights start from 200mm increasing in 100mm increments up to a recommended maximum height of 700mm.
- Lengths are made up of standard Tempo casings ranging from 400mm up to 3000mm with joining strips to make bespoke runs, that can include sections with no elements going into the casings for aesthetic or heat load requirements.
- Options include:
  - Brackets with cut outs for pipe work (subject to height and element type).
  - Can be made up of active and inactive units.
  - Internal and external corner sections.
  - Split deliveries available for elements and brackets with casings to follow.
  - A full site survey by a Jaga product specialist to site measure and offer advice can be arranged.

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TEMPO HYBRID

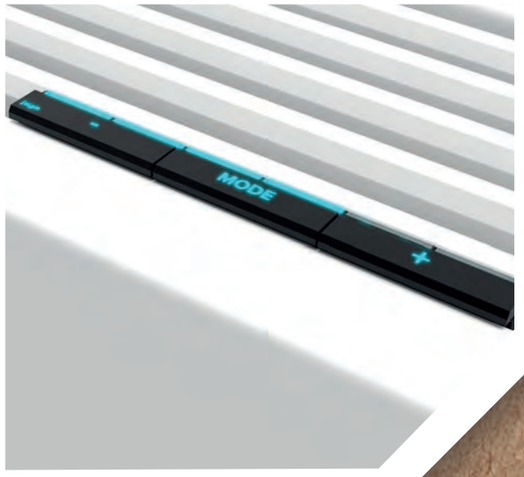
An LST radiator for heating, cooling and ventilation in one

Always leading the way in sustainable HVAC innovation, Jaga 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.

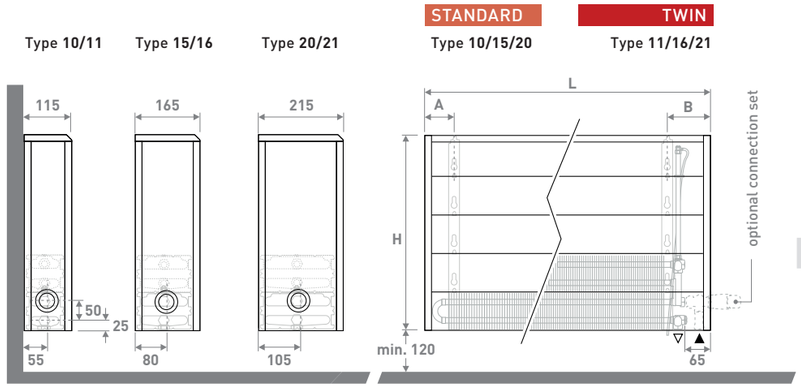
DBH is an enhanced version of Jaga's former Dynamic Boost Effect (DBE) technology, utilising small electric activators inside the unit to significantly boost output. But with the added benefit of providing light cooling.

- All the benefits of Tempo, 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.



TEMPO ▪ DIMENSIONS

in mm



	A	B
Valve on left	75	130
Valve on right	110	50

DELIVERY

Light and easily installed by one person. Delivered flat packed in 2 packages for ease of handling and storage.

Standard delivery:

- Low-H_2O heat exchanger with wall brackets and fixing kit
- Extended air vent 1/8" and drain plug 1/2"
- easy to assemble casing

COLOUR

Scratch-resistant surface coating with a soft structured, satin gloss finish.
High UV resistance.

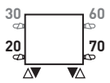
Standard colour:
white RAL 9010 (101)

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.: TEMW.030 040 10.101/60



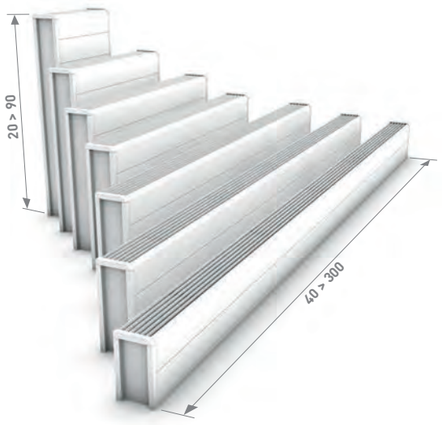
High level valve details:
see "Connection sets & Valves".

Optional remote controlled valve:
add to the code of the radiator /00.
E.g.: TEMW.030 040 10.101/00

For valve set prices see chapter "Connection sets and valves".

ORDERING CODE

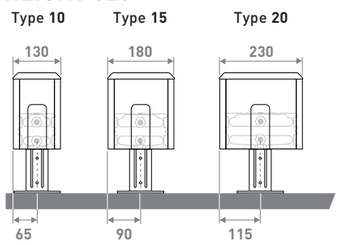
code	height	length	type		colour
TEMW	. 020	040	10	.	101

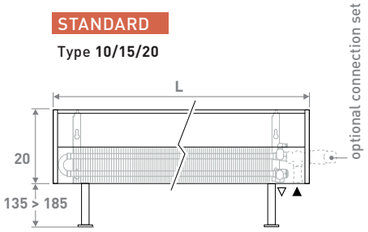


TEMPO FREESTANDING ▪ DIMENSIONS

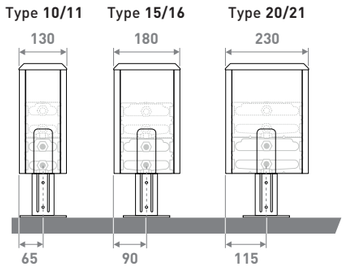
in mm

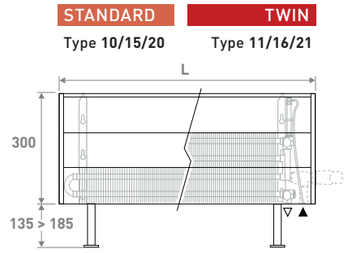
HEIGHT 020





HEIGHT 030





DELIVERY

Light and easily installed by one person. Delivered flat packed in 2 packages for ease of handling and storage.

Standard delivery:

- Extended air vent 1/8"and drain plug 1/2"
- Easy to mount casing with one closed side panel and one open panel for TRV head. The side panels can be mounted both left or right.
- Standard adjustable feet in neutral grey

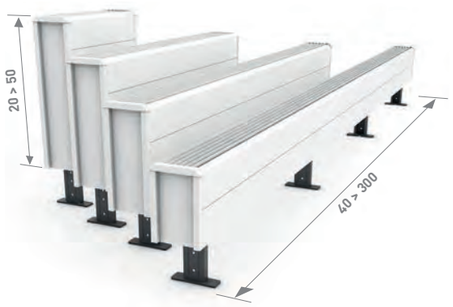
COLOUR

Scratch-resistant surface coating with a soft structured, satin gloss finish.
High UV resistance.

Standard colour:
white RAL 9010 (101)

CONNECTION

Standard connection:
bottom end left or right



OPTIONS

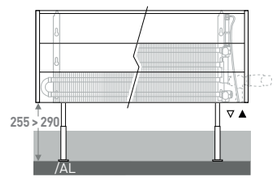
Feet in the same colour as the casing

For feet in the same colour as the casing, repeat the colour code after the code of the radiator.

E.g.: TEMF. HHH LLL TT.101/**101**

Extended adjustable feet

- For installation on a rough subfloor or computer floor.
- For extended feet in neutral grey, add /AL to the ordering code.
  E.g.: TEMF. 020 040 10.101/**AL**
- For extended feet in the same colour as the casing, add /AL to the ordering code and repeat the colour code.
  E.g.: TEMF. 020 040 10.101/AL/**101**



ORDERING CODE

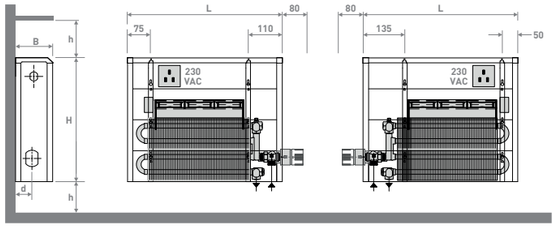
code	height	length	type		colour
TEMF	. 020	040	10	.	XXX

fill in colour code

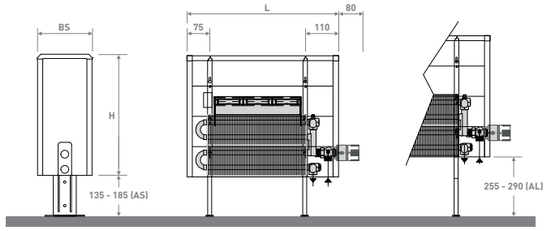
TEMPO HYBRID ▪ DIMENSIONS

in mm

Tempo LST Wall-mounted with DBH



Tempo LST Freestanding with DBH



DELIVERY

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

Please contact our customer service team to discuss your requirements.

Package includes:

- Low-H_2O 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 Tempo Hybrid. Therefore outer casing colour information remains the same as for standard Tempos.

DBH UNIT 10

DBH UNIT 15

ELECTRICAL CONNECTION

The DBH system requires an electrical outlet near the heating unit. If it has a height of 400mm or greater 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.

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, Tempo 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	*length*	*type*	*configuration*
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 Tempo to make Tempo Hybrid.

HEIGHT 200 ▪ OUTPUT TABLES

TEMPO

TEMW.020 LLL TT.XXX

	SINGLE			WEIGHT	WATER CONTENT
L	**Type**	**Watts**	**Watts**	**kg**	**l**
mm		**75/65**	**55/45**		
400	**10**	262	127	2.2	0.26
	15	436	212	2.7	0.39
	20	613	299	3.3	0.53
500	**10**	328	159	2.7	0.33
	15	545	265	3.4	0.49
	20	766	373	4.2	0.66
600	**10**	393	191	3.2	0.39
	15	654	319	4.0	0.59
	20	919	448	5.0	0.79
700	**10**	459	223	3.8	0.46
	15	763	372	4.7	0.69
	20	1072	522	5.8	0.92
800	**10**	524	255	4.3	0.52
	15	872	425	5.4	0.78
	20	1226	597	6.6	1.06
900	**10**	590	287	4.9	0.59
	15	981	478	6.0	0.88
	20	1379	672	7.5	1.19
1000	**10**	655	318	5.4	0.65
	15	1090	531	6.7	0.98
	20	1532	746	8.3	1.32
1100	**10**	721	350	5.9	0.72
	15	1199	584	7.4	1.08
	20	1685	821	9.1	1.45
1200	**10**	786	382	6.5	0.78
	15	1308	637	8.0	1.18
	20	1838	895	10.0	1.58
1400	**10**	917	446	7.6	0.91
	15	1526	743	9.4	1.37
	20	2145	1045	11.6	1.85
1600	**10**	1048	509	8.6	1.04
	15	1744	850	10.7	1.57
	20	2451	1194	13.3	2.11
1800	**10**	1179	573	9.7	1.17
	15	1962	956	12.1	1.76
	20	2758	1343	14.9	2.38
2000	**10**	1310	637	10.8	1.30
	15	2180	1062	13.4	1.96
	20	3064	1493	16.6	2.64
2200	**10**	1441	700	11.9	1.43
	15	2398	1168	14.7	2.16
	20	3370	1642	18.3	2.90
2400	**10**	1572	764	13.0	1.56
	15	2616	1274	16.1	2.35
	20	3677	1791	19.9	3.17
2600	**10**	1703	827	14.0	1.69
	15	2834	1381	17.4	2.55
	20	3983	1940	21.6	3.43
2800	**10**	1834	891	15.1	1.82
	15	3052	1487	18.8	2.74
	20	4290	2090	23.2	3.70
3000	**10**	1965	955	16.2	1.95
	15	3270	1593	20.1	2.94
	20	4596	2239	24.9	3.96

EN442 output at 20°C room temperature.

TEMPO

TEMW.030 LLL TT.XXX

	SINGLE			WEIGHT	WATER CONTENT	TWIN			WEIGHT	WATER CONTENT
L mm	Type	Watts 75/65	Watts 55/45	kg	l	Type	Watts 75/65	Watts 55/45	kg	l
400	10	330	161	2.6	0.26	11	448	215	3.3	0.53
	15	544	267	3.2	0.39	16	592	281	4.3	0.79
	20	762	373	3.9	0.53	21	779	368	5.4	1.06
500	10	413	202	3.3	0.33	11	561	269	4.1	0.67
	15	680	333	4.1	0.49	16	740	352	5.4	0.99
	20	953	467	4.9	0.66	21	974	460	6.7	1.33
600	10	496	242	4.0	0.39	11	673	323	4.9	0.80
	15	815	399	4.9	0.59	16	888	422	6.5	1.19
	20	1144	561	5.9	0.79	21	1169	552	8.0	1.60
700	10	578	282	4.6	0.46	11	785	376	5.7	0.93
	15	951	466	5.7	0.69	16	1036	492	7.6	1.39
	20	1334	654	6.9	0.92	21	1364	644	9.4	1.86
800	10	661	323	5.3	0.52	11	897	430	6.6	1.06
	15	1087	533	6.5	0.78	16	1184	563	8.6	1.58
	20	1525	747	7.8	1.06	21	1558	736	10.7	2.13
900	10	743	363	5.9	0.59	11	1009	484	7.4	1.20
	15	1223	599	7.3	0.88	16	1332	633	9.7	1.78
	20	1715	841	8.8	1.19	21	1753	828	12.1	2.39
1000	10	826	403	6.6	0.65	11	1121	537	8.2	1.33
	15	1359	666	8.1	0.98	16	1480	703	10.8	1.98
	20	1906	934	9.8	1.32	21	1948	920	13.4	2.66
1100	10	909	444	7.3	0.72	11	1233	591	9.0	1.46
	15	1495	733	8.9	1.08	16	1628	774	11.9	2.18
	20	2097	1028	10.8	1.45	21	2143	1012	14.7	2.93
1200	10	991	484	7.9	0.78	11	1345	645	9.8	1.60
	15	1631	799	9.7	1.18	16	1776	844	13.0	2.38
	20	2287	1121	11.8	1.58	21	2338	1105	16.1	3.19
1400	10	1156	565	9.2	0.91	11	1569	752	11.5	1.86
	15	1903	933	11.3	1.37	16	2072	985	15.1	2.77
	20	2668	1308	13.7	1.85	21	2727	1288	18.8	3.72
1600	10	1322	646	10.6	1.04	11	1794	860	13.1	2.13
	15	2174	1066	13.0	1.57	16	2368	1126	17.3	3.17
	20	3050	1495	15.7	2.11	21	3117	1473	21.4	4.26
1800	10	1487	726	11.9	1.17	11	2018	967	14.8	2.39
	15	2446	1199	14.6	1.76	16	2664	1266	19.4	3.56
	20	3431	1682	17.6	2.38	21	3506	1656	24.1	4.79
2000	10	1652	807	13.2	1.30	11	2242	1074	16.4	2.66
	15	2718	1332	16.2	1.96	16	2960	1407	21.6	3.96
	20	3812	1868	19.6	2.64	21	3896	1841	26.8	5.32
2400	10	1982	968	15.8	1.56	11	2690	1289	19.7	3.19
	15	3262	1599	19.4	2.35	16	3552	1688	25.9	4.75
	20	4574	2242	23.5	3.17	21	4675	2209	32.2	6.38
2800	10	2313	1130	18.5	1.82	11	3139	1504	23.0	3.72
	15	3805	1865	22.7	2.74	16	4144	1970	30.2	5.54
	20	5337	2616	27.4	3.70	21	5454	2577	37.5	7.45

EN442 output at 20°C room temperature.

TEMPO HYBRID

TEMW.030 LLL TT.XXX + DBHS.LLL TT/TPT

		HEATING Comfort				HEATING Boost				COOLING Comfort	COOLING Boost	SOUND PRESSURE Comfort	SOUND PRESSURE Boost	POWER
L mm	Type	Watts 75/65	Watts 55/45	Watts 45/35	Watts 35/30	Watts 75/65	Watts 55/45	Watts 45/35	Watts 35/30	Watts 16/18	Watts 16/18	dB(A)	dB(A)	Watts Max
400	11	-	-	-	-	-	-	-	-	-	-	-	-	-
	16	-	-	-	-	-	-	-	-	-	-	-	-	-
	21	-	-	-	-	-	-	-	-	-	-	-	-	-
500	11	943	534	337	203	1102	624	394	237	158	185	30.0	38.8	5.1
	16	-	-	-	-	-	-	-	-	-	-	-	-	-
	21	-	-	-	-	-	-	-	-	-	-	-	-	-
600	11	1223	693	438	263	1447	820	518	311	205	242	30.0	40.0	6.8
	16	1503	851	538	323	1989	1126	712	428	230	305	30.0	41.1	7.2
	21	1935	1125	725	447	2561	1488	960	591	251	332	30.0	41.1	7.2
700	11	1498	848	536	322	1791	1014	641	385	251	300	30.0	41.0	7.9
	16	1747	989	625	376	2313	1310	828	498	236	312	30.0	41.1	7.2
	21	2123	1234	796	490	2810	1633	1053	648	258	341	30.0	41.1	7.2
800	11	1770	1002	633	381	2136	1210	764	460	296	358	30.0	41.8	9.1
	16	2188	1239	783	471	2936	1663	1050	632	335	450	30.0	42.4	9.0
	21	2818	1638	1056	650	3781	2197	1418	873	366	490	30.0	42.4	9.0
900	11	2037	1154	729	438	2480	1405	887	534	341	415	30.0	42.4	10.3
	16	2503	1418	896	539	3409	1931	1220	734	383	522	30.0	43.3	10.7
	21	3224	1874	1209	744	4391	2552	1646	1013	418	570	30.0	43.3	10.7
1000	11	2301	1303	823	495	2825	1600	1011	608	385	473	30.0	43.0	12.2
	16	2817	1595	1008	606	3883	2199	1389	836	431	595	30.0	44.1	10.7
	21	3627	2108	1360	837	5000	2906	1875	1154	471	649	30.0	44.1	10.7
1100	11	2582	1462	924	556	3169	1795	1134	682	432	531	30.0	43.5	14.0
	16	3051	1728	1092	657	4207	2383	1505	905	437	602	30.0	44.1	12.5
	21	3808	2213	1428	879	5249	3051	1968	1211	477	658	30.0	44.1	12.5
1200	11	2822	1598	1010	607	3514	1990	1257	756	473	589	30.0	44.0	14.8
	16	3472	1966	1242	747	4830	2735	1728	1039	532	740	30.0	44.8	14.3
	21	4471	2598	1676	1032	6220	3615	2332	1435	580	807	30.0	44.8	14.3
1400	11	3333	1888	1193	717	4203	2380	1504	905	558	704	30.0	44.8	17.5
	16	4117	2332	1473	886	5777	3272	2067	1243	630	885	30.0	45.4	14.4
	21	5302	3081	1988	1224	7440	4324	2789	1717	688	965	30.0	45.4	14.4
1600	11	3835	2172	1372	825	4892	2771	1750	1053	642	819	30.0	45.5	19.2
	16	4717	2671	1688	1015	6724	3808	2406	1447	722	1030	30.0	46.4	19.6
	21	6075	3531	2278	1402	8659	5032	3246	1998	788	1123	30.0	46.4	19.6
1800	11	4376	2478	1566	942	5581	3161	1997	1201	733	935	30.0	46.0	22.0
	16	5171	2929	1850	1113	7371	4175	2637	1586	733	1045	30.0	46.4	19.6
	21	6424	3734	2408	1482	9157	5322	3433	2113	801	1142	30.0	46.4	19.6
2000	11	4821	2730	1725	1037	6270	3551	2243	1349	807	1050	30.0	46.5	24.0
	16	5971	3382	2136	1285	8618	4881	3083	1855	914	1320	30.0	47.1	23.5
	21	7690	4469	2883	1775	11098	6450	4161	2561	998	1440	30.0	47.1	23.5
2400	11	5738	3250	2053	1235	7648	4331	2736	1646	961	1281	30.0	47.2	28.0
	16	7168	4060	2565	1543	10512	5954	3761	2262	1098	1610	30.0	48.1	29.7
	21	9231	5365	3461	2130	13538	7868	5075	3124	1197	1756	30.0	48.1	29.7
2800	11	6599	3737	2361	1420	8790	4978	3145	1892	1056	1406	30.0	47.8	31.4
	16	8348	4728	2987	1797	12406	7026	4439	2670	1278	1900	30.0	48.9	34.5
	21	10751	6248	4031	2481	15977	9286	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).

TEMPO

TEMW.040 LLL TT.XXX

	SINGLE			WEIGHT	WATER CONTENT	TWIN			WEIGHT	WATER CONTENT
L mm	Type	Watts 75/65	Watts 55/45	kg	l	Type	Watts 75/65	Watts 55/45	kg	l
400	10	385	189	3.1	0.26	11	506	243	3.8	0.53
	15	627	309	3.8	0.39	16	680	323	4.9	0.79
	20	878	433	4.5	0.53	21	910	428	6.0	1.06
500	10	482	236	3.9	0.33	11	632	303	4.7	0.67
	15	784	386	4.8	0.49	16	850	403	6.1	0.99
	20	1098	541	5.7	0.66	21	1137	535	7.5	1.33
600	10	578	284	4.7	0.39	11	758	363	5.6	0.80
	15	941	464	5.7	0.59	16	1020	484	7.3	1.19
	20	1318	650	6.8	0.79	21	1364	641	8.9	1.60
700	10	674	331	5.5	0.46	11	885	424	6.6	0.93
	15	1098	541	6.7	0.69	16	1190	564	8.5	1.39
	20	1537	758	7.9	0.92	21	1592	749	10.4	1.86
800	10	770	378	6.2	0.52	11	1011	485	7.5	1.06
	15	1254	618	7.6	0.78	16	1360	645	9.8	1.58
	20	1757	866	9.0	1.06	21	1819	855	11.9	2.13
900	10	867	425	7.0	0.59	11	1138	546	8.5	1.20
	15	1411	695	8.6	0.88	16	1530	726	11.0	1.78
	20	1976	974	10.2	1.19	21	2047	963	13.4	2.39
1000	10	963	472	7.8	0.65	11	1264	606	9.4	1.33
	15	1568	773	9.5	0.98	16	1700	806	12.2	1.98
	20	2196	1083	11.3	1.32	21	2274	1069	14.9	2.66
1100	10	1059	520	8.6	0.72	11	1390	666	10.3	1.46
	15	1725	850	10.5	1.08	16	1870	887	13.4	2.18
	20	2416	1191	12.4	1.45	21	2501	1176	16.4	2.93
1200	10	1156	567	9.4	0.78	11	1517	727	11.3	1.60
	15	1882	928	11.4	1.18	16	2040	968	14.6	2.38
	20	2635	1299	13.6	1.58	21	2729	1283	17.9	3.19
1400	10	1348	661	10.9	0.91	11	1770	849	13.2	1.86
	15	2195	1082	13.3	1.37	16	2380	1129	17.1	2.77
	20	3074	1516	15.8	1.85	21	3184	1497	20.9	3.72
1600	10	1541	756	12.5	1.04	11	2022	969	15.0	2.13
	15	2509	1237	15.2	1.57	16	2720	1290	19.5	3.17
	20	3514	1733	18.1	2.11	21	3638	1711	23.8	4.26
1800	10	1733	850	14.0	1.17	11	2275	1091	16.9	2.39
	15	2822	1391	17.1	1.76	16	3060	1452	22.0	3.56
	20	3953	1949	20.3	2.38	21	4093	1925	26.8	4.79
2000	10	1926	945	15.6	1.30	11	2528	1212	18.8	2.66
	15	3136	1546	19.0	1.96	16	3400	1613	24.4	3.96
	20	4392	2166	22.6	2.64	21	4548	2139	29.8	5.32
2400	10	2311	1134	18.7	1.56	11	3034	1455	22.6	3.19
	15	3763	1855	22.8	2.35	16	4080	1935	29.3	4.75
	20	5270	2599	27.1	3.17	21	5458	2567	35.8	6.38
2800	10	2696	1323	21.8	1.82	11	3539	1697	26.3	3.72
	15	4390	2164	26.6	2.74	16	4760	2258	34.2	5.54
	20	6149	3032	31.6	3.70	21	6367	2994	41.7	7.45

EN442 output at 20°C room temperature.

TEMPO HYBRID

TEMW.040 LLL TT.XXX + DBHS.LLL TT/TPT

		HEATING Comfort				HEATING Boost				COOLING Comfort	COOLING Boost	SOUND PRESSURE Comfort	SOUND PRESSURE Boost	POWER
L mm	Type	Watts 75/65	Watts 55/45	Watts 45/35	Watts 35/30	Watts 75/65	Watts 55/45	Watts 45/35	Watts 35/30	Watts 16/18	Watts 16/18	dB(A)	dB(A)	Watts Max
400	11	-	-	-	-	-	-	-	-	-	-	-	-	-
	16	-	-	-	-	-	-	-	-	-	-	-	-	-
	21	-	-	-	-	-	-	-	-	-	-	-	-	-
500	11	943	534	337	203	1102	624	394	237	158	185	30.0	38.8	5.1
	16	-	-	-	-	-	-	-	-	-	-	-	-	-
	21	-	-	-	-	-	-	-	-	-	-	-	-	-
600	11	1223	693	438	263	1447	820	518	311	205	242	30.0	40.0	6.8
	16	1503	851	538	323	1989	1126	712	428	230	305	30.0	41.1	7.2
	21	1935	1125	725	447	2561	1488	960	591	251	332	30.0	41.1	7.2
700	11	1498	848	536	322	1791	1014	641	385	251	300	30.0	41.0	7.9
	16	1747	989	625	376	2313	1310	828	498	236	312	30.0	41.1	7.2
	21	2123	1234	796	490	2810	1633	1053	648	258	341	30.0	41.1	7.2
800	11	1770	1002	633	381	2136	1210	764	460	296	358	30.0	41.8	9.1
	16	2188	1239	783	471	2936	1663	1050	632	335	450	30.0	42.4	9.0
	21	2818	1638	1056	650	3781	2197	1418	873	366	490	30.0	42.4	9.0
900	11	2037	1154	729	438	2480	1405	887	534	341	415	30.0	42.4	10.3
	16	2503	1418	896	539	3409	1931	1220	734	383	522	30.0	43.3	10.7
	21	3224	1874	1209	744	4391	2552	1646	1013	418	570	30.0	43.3	10.7
1000	11	2301	1303	823	495	2825	1600	1011	608	385	473	30.0	43.0	12.2
	16	2817	1595	1008	606	3883	2199	1389	836	431	595	30.0	44.1	10.7
	21	3627	2108	1360	837	5000	2906	1875	1154	471	649	30.0	44.1	10.7
1100	11	2582	1462	924	556	3169	1795	1134	682	432	531	30.0	43.5	14.0
	16	3051	1728	1092	657	4207	2383	1505	905	437	602	30.0	44.1	12.5
	21	3808	2213	1428	879	5249	3051	1968	1211	477	658	30.0	44.1	12.5
1200	11	2822	1598	1010	607	3514	1990	1257	756	473	589	30.0	44.0	14.8
	16	3472	1966	1242	747	4830	2735	1728	1039	532	740	30.0	44.8	14.3
	21	4471	2598	1676	1032	6220	3615	2332	1435	580	807	30.0	44.8	14.3
1400	11	3333	1888	1193	717	4203	2380	1504	905	558	704	30.0	44.8	17.5
	16	4117	2332	1473	886	5777	3272	2067	1243	630	885	30.0	45.4	14.4
	21	5302	3081	1988	1224	7440	4324	2789	1717	688	965	30.0	45.4	14.4
1600	11	3835	2172	1372	825	4892	2771	1750	1053	642	819	30.0	45.5	19.2
	16	4717	2671	1688	1015	6724	3808	2406	1447	722	1030	30.0	46.4	19.6
	21	6075	3531	2278	1402	8659	5032	3246	1998	788	1123	30.0	46.4	19.6
1800	11	4376	2478	1566	942	5581	3161	1997	1201	733	935	30.0	46.0	22.0
	16	5171	2929	1850	1113	7371	4175	2637	1586	733	1045	30.0	46.4	19.6
	21	6424	3734	2408	1482	9157	5322	3433	2113	801	1142	30.0	46.4	19.6
2000	11	4821	2730	1725	1037	6270	3551	2243	1349	807	1050	30.0	46.5	24.0
	16	5971	3382	2136	1285	8618	4881	3083	1855	914	1320	30.0	47.1	23.5
	21	7690	4469	2883	1775	11098	6450	4161	2561	998	1440	30.0	47.1	23.5
2400	11	5738	3250	2053	1235	7648	4331	2736	1646	961	1281	30.0	47.2	28.0
	16	7168	4060	2565	1543	10512	5954	3761	2262	1098	1610	30.0	48.1	29.7
	21	9231	5365	3461	2130	13538	7868	5075	3124	1197	1756	30.0	48.1	29.7
2800	11	6599	3737	2361	1420	8790	4978	3145	1892	1056	1406	30.0	47.8	31.4
	16	8348	4728	2987	1797	12406	7026	4439	2670	1278	1900	30.0	48.9	34.5
	21	10751	6248	4031	2481	15977	9286	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).

TEMPO

TEMW.050 LLL TT.XXX

	SINGLE			WEIGHT	WATER CONTENT	TWIN			WEIGHT	WATER CONTENT
L mm	Type	Watts 75/65	Watts 55/45	kg	l	Type	Watts 75/65	Watts 55/45	kg	l
400	10	430	212	3.6	0.26	11	554	266	4.3	0.53
	15	694	344	4.3	0.39	16	759	359	5.4	0.79
	20	970	481	5.2	0.53	21	1033	484	6.6	1.06
500	10	538	265	4.5	0.33	11	693	332	5.4	0.67
	15	867	430	5.4	0.49	16	949	449	6.8	0.99
	20	1213	602	6.5	0.66	21	1291	605	8.2	1.33
600	10	646	318	5.4	0.39	11	832	399	6.4	0.80
	15	1040	516	6.5	0.59	16	1139	539	8.2	1.19
	20	1455	722	7.7	0.79	21	1549	725	9.8	1.60
700	10	753	371	6.3	0.46	11	970	465	7.5	0.93
	15	1214	602	7.6	0.69	16	1329	629	9.5	1.39
	20	1689	838	9.0	0.92	21	1807	846	11.5	1.86
800	10	861	424	7.2	0.52	11	1109	532	8.6	1.06
	15	1387	688	8.6	0.78	16	1518	719	10.9	1.58
	20	1940	962	10.3	1.06	21	2066	968	13.1	2.13
900	10	968	477	8.1	0.59	11	1247	598	9.6	1.20
	15	1561	774	9.7	0.88	16	1708	809	12.2	1.78
	20	2183	1083	11.6	1.19	21	2324	1088	14.8	2.39
1000	10	1076	530	9.0	0.65	11	1386	665	10.7	1.33
	15	1734	860	10.8	0.98	16	1898	898	13.6	1.98
	20	2425	1203	12.9	1.32	21	2582	1209	16.4	2.66
1100	10	1184	584	9.9	0.72	11	1525	732	11.8	1.46
	15	1907	946	11.9	1.08	16	2088	988	15.0	2.18
	20	2668	1323	14.2	1.45	21	2840	1330	18.0	2.93
1200	10	1291	636	10.8	0.78	11	1663	798	12.8	1.60
	15	2081	1032	13.0	1.18	16	2278	1078	16.3	2.38
	20	2910	1443	15.5	1.58	21	3098	1451	19.7	3.19
1400	10	1506	742	12.6	0.91	11	1940	931	15.0	1.86
	15	2428	1204	15.1	1.37	16	2657	1258	19.0	2.77
	20	3395	1684	18.1	1.85	21	3615	1693	23.0	3.72
1600	10	1722	849	14.4	1.04	11	2218	1064	17.1	2.13
	15	2774	1376	17.3	1.57	16	3037	1438	21.8	3.17
	20	3880	1924	20.6	2.11	21	4131	1935	26.2	4.26
1800	10	1937	955	16.2	1.17	11	2495	1197	19.3	2.39
	15	3121	1548	19.4	1.76	16	3416	1617	24.5	3.56
	20	4365	2165	23.2	2.38	21	4648	2177	29.5	4.79
2000	10	2152	1061	18.0	1.30	11	2772	1330	21.4	2.66
	15	3468	1720	21.6	1.96	16	3796	1797	27.2	3.96
	20	4850	2405	25.8	2.64	21	5164	2418	32.8	5.32
2400	10	2582	1273	21.6	1.56	11	3326	1596	25.7	3.19
	15	4162	2064	25.9	2.35	16	4555	2156	32.6	4.75
	20	5820	2886	31.0	3.17	21	6197	2902	39.4	6.38
2800	10	3013	1485	25.2	1.82	11	3881	1862	30.0	3.72
	15	4855	2408	30.2	2.74	16	5314	2516	38.1	5.54
	20	6790	3367	36.1	3.70	21	7230	3386	45.9	7.45

EN442 output at 20°C room temperature.

TEMPO HYBRID

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

		HEATING Comfort				HEATING Boost				COOLING Comfort	COOLING Boost	SOUND PRESSURE Comfort	SOUND PRESSURE Boost	POWER
L mm	Type	Watts 75/65	Watts 55/45	Watts 45/35	Watts 35/30	Watts 75/65	Watts 55/45	Watts 45/35	Watts 35/30	Watts 16/18	Watts 16/18	dB(A)	dB(A)	Watts Max
400	11	-	-	-	-	-	-	-	-	-	-	-	-	-
	16	-	-	-	-	-	-	-	-	-	-	-	-	-
	21	-	-	-	-	-	-	-	-	-	-	-	-	-
500	11	943	534	337	203	1102	624	394	237	158	185	30.0	38.8	5.1
	16	-	-	-	-	-	-	-	-	-	-	-	-	-
	21	-	-	-	-	-	-	-	-	-	-	-	-	-
600	11	1223	693	438	263	1447	820	518	311	205	242	30.0	40.0	6.8
	16	1503	851	538	323	1989	1126	712	428	230	305	30.0	41.1	7.2
	21	1935	1125	725	447	2561	1488	960	591	251	332	30.0	41.1	7.2
700	11	1498	848	536	322	1791	1014	641	385	251	300	30.0	41.0	7.9
	16	1747	989	625	376	2313	1310	828	498	236	312	30.0	41.1	7.2
	21	2123	1234	796	490	2810	1633	1053	648	258	341	30.0	41.1	7.2
800	11	1770	1002	633	381	2136	1210	764	460	296	358	30.0	41.8	9.1
	16	2188	1239	783	471	2936	1663	1050	632	335	450	30.0	42.4	9.0
	21	2818	1638	1056	650	3781	2197	1418	873	366	490	30.0	42.4	9.0
900	11	2037	1154	729	438	2480	1405	887	534	341	415	30.0	42.4	10.3
	16	2503	1418	896	539	3409	1931	1220	734	383	522	30.0	43.3	10.7
	21	3224	1874	1209	744	4391	2552	1646	1013	418	570	30.0	43.3	10.7
1000	11	2301	1303	823	495	2825	1600	1011	608	385	473	30.0	43.0	12.2
	16	2817	1595	1008	606	3883	2199	1389	836	431	595	30.0	44.1	10.7
	21	3627	2108	1360	837	5000	2906	1875	1154	471	649	30.0	44.1	10.7
1100	11	2582	1462	924	556	3169	1795	1134	682	432	531	30.0	43.5	14.0
	16	3051	1728	1092	657	4207	2383	1505	905	437	602	30.0	44.1	12.5
	21	3808	2213	1428	879	5249	3051	1968	1211	477	658	30.0	44.1	12.5
1200	11	2822	1598	1010	607	3514	1990	1257	756	473	589	30.0	44.0	14.8
	16	3472	1966	1242	747	4830	2735	1728	1039	532	740	30.0	44.8	14.3
	21	4471	2598	1676	1032	6220	3615	2332	1435	580	807	30.0	44.8	14.3
1400	11	3333	1888	1193	717	4203	2380	1504	905	558	704	30.0	44.8	17.5
	16	4117	2332	1473	886	5777	3272	2067	1243	630	885	30.0	45.4	14.4
	21	5302	3081	1988	1224	7440	4324	2789	1717	688	965	30.0	45.4	14.4
1600	11	3835	2172	1372	825	4892	2771	1750	1053	642	819	30.0	45.5	19.2
	16	4717	2671	1688	1015	6724	3808	2406	1447	722	1030	30.0	46.4	19.6
	21	6075	3531	2278	1402	8659	5032	3246	1998	788	1123	30.0	46.4	19.6
1800	11	4376	2478	1566	942	5581	3161	1997	1201	733	935	30.0	46.0	22.0
	16	5171	2929	1850	1113	7371	4175	2637	1586	733	1045	30.0	46.4	19.6
	21	6424	3734	2408	1482	9157	5322	3433	2113	801	1142	30.0	46.4	19.6
2000	11	4821	2730	1725	1037	6270	3551	2243	1349	807	1050	30.0	46.5	24.0
	16	5971	3382	2136	1285	8618	4881	3083	1855	914	1320	30.0	47.1	23.5
	21	7690	4469	2883	1775	11098	6450	4161	2561	998	1440	30.0	47.1	23.5
2400	11	5738	3250	2053	1235	7648	4331	2736	1646	961	1281	30.0	47.2	28.0
	16	7168	4060	2565	1543	10512	5954	3761	2262	1098	1610	30.0	48.1	29.7
	21	9231	5365	3461	2130	13538	7868	5075	3124	1197	1756	30.0	48.1	29.7
2800	11	6599	3737	2361	1420	8790	4978	3145	1892	1056	1406	30.0	47.8	31.4
	16	8348	4728	2987	1797	12406	7026	4439	2670	1278	1900	30.0	48.9	34.5
	21	10751	6248	4031	2481	15977	9286	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).

TEMPO

TEMW.060 LLL TT.XXX

	SINGLE			WEIGHT	WATER CONTENT	TWIN			WEIGHT	WATER CONTENT
L mm	Type	Watts 75/65	Watts 55/45	kg	l	Type	Watts 75/65	Watts 55/45	kg	l
400	10	468	232	4.1	0.26	11	598	287	4.8	0.53
	15	746	372	4.9	0.39	16	834	394	6.0	0.79
	20	1043	520	5.8	0.53	21	1153	538	7.2	1.06
500	10	585	290	5.2	0.33	11	747	359	6.0	0.67
	15	933	466	6.1	0.49	16	1042	492	7.5	0.99
	20	1304	651	7.2	0.66	21	1441	672	9.0	1.33
600	10	702	348	6.2	0.39	11	896	430	7.1	0.80
	15	1120	559	7.3	0.59	16	1250	591	8.9	1.19
	20	1565	781	8.6	0.79	21	1729	806	10.7	1.60
700	10	819	406	7.2	0.46	11	1046	502	8.3	0.93
	15	1306	652	8.5	0.69	16	1459	689	10.4	1.39
	20	1826	911	10.1	0.92	21	2017	941	12.5	1.86
800	10	936	463	8.2	0.52	11	1195	574	9.5	1.06
	15	1493	745	9.8	0.78	16	1667	788	11.9	1.58
	20	2086	1041	11.5	1.06	21	2306	1076	14.3	2.13
900	10	1053	521	9.3	0.59	11	1345	646	10.7	1.20
	15	1679	838	11.0	0.88	16	1876	886	13.4	1.78
	20	2347	1171	13.0	1.19	21	2594	1210	16.1	2.39
1000	10	1170	579	10.3	0.65	11	1494	717	11.9	1.33
	15	1866	931	12.2	0.98	16	2084	985	14.9	1.98
	20	2608	1301	14.4	1.32	21	2882	1344	17.9	2.66
1100	10	1287	637	11.3	0.72	11	1643	789	13.1	1.46
	15	2053	1024	13.4	1.08	16	2292	1083	16.4	2.18
	20	2869	1432	15.8	1.45	21	3170	1479	19.7	2.93
1200	10	1404	695	12.4	0.78	11	1793	861	14.3	1.60
	15	2239	1117	14.6	1.18	16	2501	1182	17.9	2.38
	20	3130	1562	17.3	1.58	21	3458	1613	21.5	3.19
1400	10	1638	811	14.4	0.91	11	2092	1004	16.7	1.86
	15	2612	1303	17.1	1.37	16	2918	1379	20.9	2.77
	20	3651	1822	20.2	1.85	21	4035	1882	25.1	3.72
1600	10	1872	927	16.5	1.04	11	2390	1147	19.0	2.13
	15	2986	1490	19.5	1.57	16	3334	1575	23.8	3.17
	20	4173	2082	23.0	2.11	21	4611	2151	28.6	4.26
1800	10	2106	1043	18.5	1.17	11	2689	1291	21.4	2.39
	15	3359	1676	22.0	1.76	16	3751	1772	26.8	3.56
	20	4694	2342	25.9	2.38	21	5188	2420	32.2	4.79
2000	10	2340	1159	20.6	1.30	11	2988	1434	23.8	2.66
	15	3732	1862	24.4	1.96	16	4168	1969	29.8	3.96
	20	5216	2603	28.8	2.64	21	5764	2688	35.8	5.32
2400	10	2808	1390	24.7	1.56	11	3586	1721	28.6	3.19
	15	4478	2234	29.3	2.35	16	5002	2363	35.8	4.75
	20	6259	3123	34.6	3.17	21	6917	3226	43.0	6.38
2800	10	3276	1622	28.8	1.82	11	4183	2008	33.3	3.72
	15	5225	2607	34.2	2.74	16	5835	2757	41.7	5.54
	20	7302	3643	40.3	3.70	21	8070	3764	50.1	7.45

EN442 output at 20°C room temperature.

TEMPO HYBRID

TEMW.060 LLL TT.XXX + DBHS.LLL TT/TPT

		HEATING Comfort				HEATING Boost				COOLING Comfort	COOLING Boost	SOUND PRESSURE Comfort	SOUND PRESSURE Boost	POWER
L mm	Type	Watts 75/65	Watts 55/45	Watts 45/35	Watts 35/30	Watts 75/65	Watts 55/45	Watts 45/35	Watts 35/30	Watts 16/18	Watts 16/18	dB(A)	dB(A)	Watts Max
400	11	-	-	-	-	-	-	-	-	-	-	-	-	-
	16	-	-	-	-	-	-	-	-	-	-	-	-	-
	21	-	-	-	-	-	-	-	-	-	-	-	-	-
500	11	943	534	337	203	1102	624	394	237	150	175	30.0	38.8	5.1
	16	-	-	-	-	-	-	-	-	-	-	-	-	-
	21	-	-	-	-	-	-	-	-	-	-	-	-	-
600	11	1223	693	438	263	1447	820	518	311	195	230	30.0	40.0	6.8
	16	1503	851	538	323	1989	1126	712	428	219	290	30.0	41.1	7.2
	21	1935	1125	725	447	2561	1488	960	591	238	316	30.0	41.1	7.2
700	11	1498	848	536	322	1791	1014	641	385	238	285	30.0	41.0	7.9
	16	1747	989	625	376	2313	1310	828	498	224	296	30.0	41.1	7.2
	21	2123	1234	796	490	2810	1633	1053	648	245	324	30.0	41.1	7.2
800	11	1770	1002	633	381	2136	1210	764	460	281	340	30.0	41.8	9.1
	16	2188	1239	783	471	2936	1663	1050	632	318	428	30.0	42.4	9.0
	21	2818	1638	1056	650	3781	2197	1418	873	347	466	30.0	42.4	9.0
900	11	2037	1154	729	438	2480	1405	887	534	324	395	30.0	42.4	10.3
	16	2503	1418	896	539	3409	1931	1220	734	364	496	30.0	43.3	10.7
	21	3224	1874	1209	744	4391	2552	1646	1013	397	541	30.0	43.3	10.7
1000	11	2301	1303	823	495	2825	1600	1011	608	366	449	30.0	43.0	12.2
	16	2817	1595	1008	606	3883	2199	1389	836	409	565	30.0	44.1	10.7
	21	3627	2108	1360	837	5000	2906	1875	1154	447	616	30.0	44.1	10.7
1100	11	2582	1462	924	556	3169	1795	1134	682	411	504	30.0	43.5	14.0
	16	3051	1728	1092	657	4207	2383	1505	905	415	572	30.0	44.1	12.5
	21	3808	2213	1428	879	5249	3051	1968	1211	453	625	30.0	44.1	12.5
1200	11	2822	1598	1010	607	3514	1990	1257	756	449	560	30.0	44.0	14.8
	16	3472	1966	1242	747	4830	2735	1728	1039	505	703	30.0	44.8	14.3
	21	4471	2598	1676	1032	6220	3615	2332	1435	551	766	30.0	44.8	14.3
1400	11	3333	1888	1193	717	4203	2380	1504	905	530	669	30.0	44.8	17.5
	16	4117	2332	1473	886	5777	3272	2067	1243	599	841	30.0	45.4	14.4
	21	5302	3081	1988	1224	7440	4324	2789	1717	653	917	30.0	45.4	14.4
1600	11	3835	2172	1372	825	4892	2771	1750	1053	610	778	30.0	45.5	19.2
	16	4717	2671	1688	1015	6724	3808	2406	1447	686	979	30.0	46.4	19.6
	21	6075	3531	2278	1402	8659	5032	3246	1998	749	1067	30.0	46.4	19.6
1800	11	4376	2478	1566	942	5581	3161	1997	1201	696	888	30.0	46.0	22.0
	16	5171	2929	1850	1113	7371	4175	2637	1586	696	992	30.0	46.4	19.6
	21	6424	3734	2408	1482	9157	5322	3433	2113	761	1085	30.0	46.4	19.6
2000	11	4821	2730	1725	1037	6270	3551	2243	1349	767	998	30.0	46.5	24.0
	16	5971	3382	2136	1285	8618	4881	3083	1855	868	1254	30.0	47.1	23.5
	21	7690	4469	2883	1775	11098	6450	4161	2561	948	1368	30.0	47.1	23.5
2400	11	5738	3250	2053	1235	7648	4331	2736	1646	913	1217	30.0	47.2	28.0
	16	7168	4060	2565	1543	10512	5954	3761	2262	1043	1530	30.0	48.1	29.7
	21	9231	5365	3461	2130	13538	7868	5075	3124	1138	1668	30.0	48.1	29.7
2800	11	6599	3737	2361	1420	8790	4978	3145	1892	1003	1336	30.0	47.8	31.4
	16	8348	4728	2987	1797	12406	7026	4439	2670	1214	1805	30.0	48.9	34.5
	21	10751	6248	4031	2481	15977	9286	5990	3687	1226	1821	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).

TEMPO

TEMW.070 LLL TT.XXX

	SINGLE			WEIGHT	WATER CONTENT	TWIN			WEIGHT	WATER CONTENT
L mm	Type	Watts 75/65	Watts 55/45	kg	l	Type	Watts 75/65	Watts 55/45	kg	l
400	10	499	248	4.6	0.26	11	636	305	5.2	0.53
	15	789	396	5.4	0.39	16	904	426	6.5	0.79
	20	1101	553	6.4	0.53	21	1271	590	7.8	1.06
500	10	624	311	5.8	0.33	11	795	382	6.6	0.67
	15	986	495	6.8	0.49	16	1130	533	8.2	0.99
	20	1377	691	8.0	0.66	21	1589	738	9.7	1.33
600	10	749	373	6.9	0.39	11	954	458	7.9	0.80
	15	1183	594	8.2	0.59	16	1356	639	9.8	1.19
	20	1652	829	9.5	0.79	21	1906	885	11.6	1.60
700	10	874	435	8.1	0.46	11	1113	534	9.2	0.93
	15	1380	692	9.5	0.69	16	1582	746	11.4	1.39
	20	1927	967	11.1	0.92	21	2224	1033	13.6	1.86
800	10	998	497	9.2	0.52	11	1272	611	10.5	1.06
	15	1578	792	10.9	0.78	16	1808	852	13.0	1.58
	20	2202	1105	12.7	1.06	21	2542	1181	15.5	2.13
900	10	1123	559	10.4	0.59	11	1431	687	11.8	1.20
	15	1775	891	12.2	0.88	16	2034	959	14.7	1.78
	20	2478	1244	14.3	1.19	21	2859	1328	17.5	2.39
1000	10	1248	621	11.5	0.65	11	1590	764	13.1	1.33
	15	1972	989	13.6	0.98	16	2260	1065	16.3	1.98
	20	2753	1382	15.9	1.32	21	3177	1476	19.4	2.66
1100	10	1373	683	12.7	0.72	11	1749	840	14.4	1.46
	15	2169	1088	15.0	1.08	16	2486	1172	17.9	2.18
	20	3028	1520	17.5	1.45	21	3495	1623	21.3	2.93
1200	10	1498	746	13.8	0.78	11	1908	916	15.7	1.60
	15	2366	1187	16.3	1.18	16	2712	1279	19.6	2.38
	20	3304	1659	19.1	1.58	21	3812	1771	23.3	3.19
1400	10	1747	869	16.1	0.91	11	2226	1069	18.3	1.86
	15	2761	1385	19.0	1.37	16	3164	1492	22.8	2.77
	20	3854	1935	22.3	1.85	21	4448	2066	27.2	3.72
1600	10	1997	994	18.4	1.04	11	2544	1222	21.0	2.13
	15	3155	1583	21.8	1.57	16	3616	1705	26.1	3.17
	20	4405	2211	25.4	2.11	21	5083	2361	31.0	4.26
1800	10	2246	1118	20.7	1.17	11	2862	1374	23.6	2.39
	15	3550	1781	24.5	1.76	16	4068	1918	29.3	3.56
	20	4955	2488	28.6	2.38	21	5719	2657	34.9	4.79
2000	10	2496	1242	23.0	1.30	11	3180	1527	26.2	2.66
	15	3944	1979	27.2	1.96	16	4520	2131	32.6	3.96
	20	5506	2764	31.8	2.64	21	6354	2952	38.8	5.32
2400	10	2995	1491	27.6	1.56	11	3816	1832	31.4	3.19
	15	4733	2375	32.6	2.35	16	5424	2557	39.1	4.75
	20	6607	3317	38.2	3.17	21	7625	3542	46.6	6.38
2800	10	3494	1739	32.2	1.82	11	4452	2138	36.7	3.72
	15	5522	2771	38.1	2.74	16	6328	2983	45.6	5.54
	20	7708	3870	44.5	3.70	21	8896	4132	54.3	7.45

EN442 output at 20°C room temperature.

TEMPO HYBRID

TEMW.070 LLL TT.XXX + DBHS.LLL TT/TPT

		HEATING Comfort				HEATING Boost				COOLING Comfort	COOLING Boost	SOUND PRESSURE Comfort	SOUND PRESSURE Boost	POWER
L mm	Type	Watts 75/65	Watts 55/45	Watts 45/35	Watts 35/30	Watts 75/65	Watts 55/45	Watts 45/35	Watts 35/30	Watts 16/18	Watts 16/18	dB(A)	dB(A)	Watts Max
400	11	-	-	-	-	-	-	-	-	-	-	-	-	-
	16	-	-	-	-	-	-	-	-	-	-	-	-	-
	21	-	-	-	-	-	-	-	-	-	-	-	-	-
500	11	943	534	337	203	1102	624	394	237	142	166	30.0	38.8	5.1
	16	-	-	-	-	-	-	-	-	-	-	-	-	-
	21	-	-	-	-	-	-	-	-	-	-	-	-	-
600	11	1223	693	438	263	1447	820	518	311	185	218	30.0	40.0	6.8
	16	1503	851	538	323	1989	1126	712	428	207	275	30.0	41.1	7.2
	21	1935	1125	725	447	2561	1488	960	591	226	299	30.0	41.1	7.2
700	11	1498	848	536	322	1791	1014	641	385	226	270	30.0	41.0	7.9
	16	1747	989	625	376	2313	1310	828	498	212	281	30.0	41.1	7.2
	21	2123	1234	796	490	2810	1633	1053	648	232	307	30.0	41.1	7.2
800	11	1770	1002	633	381	2136	1210	764	460	266	322	30.0	41.8	9.1
	16	2188	1239	783	471	2936	1663	1050	632	302	405	30.0	42.4	9.0
	21	2818	1638	1056	650	3781	2197	1418	873	329	441	30.0	42.4	9.0
900	11	2037	1154	729	438	2480	1405	887	534	307	374	30.0	42.4	10.3
	16	2503	1418	896	539	3409	1931	1220	734	345	470	30.0	43.3	10.7
	21	3224	1874	1209	744	4391	2552	1646	1013	376	513	30.0	43.3	10.7
1000	11	2301	1303	823	495	2825	1600	1011	608	347	426	30.0	43.0	12.2
	16	2817	1595	1008	606	3883	2199	1389	836	388	536	30.0	44.1	10.7
	21	3627	2108	1360	837	5000	2906	1875	1154	423	584	30.0	44.1	10.7
1100	11	2582	1462	924	556	3169	1795	1134	682	389	478	30.0	43.5	14.0
	16	3051	1728	1092	657	4207	2383	1505	905	393	542	30.0	44.1	12.5
	21	3808	2213	1428	879	5249	3051	1968	1211	429	592	30.0	44.1	12.5
1200	11	2822	1598	1010	607	3514	1990	1257	756	426	530	30.0	44.0	14.8
	16	3472	1966	1242	747	4830	2735	1728	1039	479	666	30.0	44.8	14.3
	21	4471	2598	1676	1032	6220	3615	2332	1435	522	726	30.0	44.8	14.3
1400	11	3333	1888	1193	717	4203	2380	1504	905	502	634	30.0	44.8	17.5
	16	4117	2332	1473	886	5777	3272	2067	1243	567	797	30.0	45.4	14.4
	21	5302	3081	1988	1224	7440	4324	2789	1717	619	869	30.0	45.4	14.4
1600	11	3835	2172	1372	825	4892	2771	1750	1053	578	737	30.0	45.5	19.2
	16	4717	2671	1688	1015	6724	3808	2406	1447	650	927	30.0	46.4	19.6
	21	6075	3531	2278	1402	8659	5032	3246	1998	709	1011	30.0	46.4	19.6
1800	11	4376	2478	1566	942	5581	3161	1997	1201	660	841	30.0	46.0	22.0
	16	5171	2929	1850	1113	7371	4175	2637	1586	659	940	30.0	46.4	19.6
	21	6424	3734	2408	1482	9157	5322	3433	2113	721	1027	30.0	46.4	19.6
2000	11	4821	2730	1725	1037	6270	3551	2243	1349	726	945	30.0	46.5	24.0
	16	5971	3382	2136	1285	8618	4881	3083	1855	823	1188	30.0	47.1	23.5
	21	7690	4469	2883	1775	11098	6450	4161	2561	898	1296	30.0	47.1	23.5
2400	11	5738	3250	2053	1235	7648	4331	2736	1646	865	1153	30.0	47.2	28.0
	16	7168	4060	2565	1543	10512	5954	3761	2262	988	1449	30.0	48.1	29.7
	21	9231	5365	3461	2130	13538	7868	5075	3124	1078	1580	30.0	48.1	29.7
2800	11	6599	3737	2361	1420	8790	4978	3145	1892	950	1265	30.0	47.8	31.4
	16	8348	4728	2987	1797	12406	7026	4439	2670	1150	1710	30.0	48.9	34.5
	21	10751	6248	4031	2481	15977	9286	5990	3687	1161	1725	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).

TEMPO

TEMW.060 LLL TT.XXX

	SINGLE			WEIGHT	WATER CONTENT	TWIN			WEIGHT	WATER CONTENT
L mm	Type	Watts 75/65	Watts 55/45	kg	l	Type	Watts 75/65	Watts 55/45	kg	l
400	10	548	275	5.7	0.26	11	703	338	6.3	0.53
	15	848	431	6.9	0.39	16	1038	487	7.9	0.79
	20	1183	601	7.7	0.53	21	1508	694	8.9	1.06
500	10	685	344	7.2	0.33	11	879	423	7.9	0.67
	15	1060	538	8.7	0.49	16	1298	609	9.9	0.99
	20	1479	751	9.7	0.66	21	1885	868	11.2	1.33
600	10	821	412	8.6	0.39	11	1055	507	9.5	0.80
	15	1272	646	10.4	0.59	16	1558	732	11.9	1.19
	20	1774	901	11.6	0.79	21	2262	1042	13.4	1.60
700	10	958	481	10.0	0.46	11	1231	592	11.1	0.93
	15	1484	754	12.1	0.69	16	1817	853	13.9	1.39
	20	2070	1051	13.5	0.92	21	2639	1215	15.6	1.86
800	10	1095	550	11.4	0.52	11	1406	676	12.6	1.06
	15	1696	861	13.8	0.78	16	2077	975	15.8	1.58
	20	2366	1202	15.4	1.06	21	3016	1389	17.8	2.13
900	10	1232	619	12.9	0.59	11	1582	760	14.2	1.20
	15	1908	969	15.6	0.88	16	2336	1097	17.8	1.78
	20	2661	1352	17.4	1.19	21	3393	1562	20.1	2.39
1000	10	1369	688	14.3	0.65	11	1758	845	15.8	1.33
	15	2120	1077	17.3	0.98	16	2596	1219	19.8	1.98
	20	2957	1502	19.3	1.32	21	3770	1736	22.3	2.66
1100	10	1506	756	15.7	0.72	11	1934	930	17.4	1.46
	15	2332	1185	19.0	1.08	16	2856	1341	21.8	2.18
	20	3253	1652	21.2	1.45	21	4147	1910	24.5	2.93
1200	10	1643	825	17.2	0.78	11	2110	1014	19.0	1.60
	15	2544	1292	20.8	1.18	16	3115	1463	23.8	2.38
	20	3548	1802	23.2	1.58	21	4524	2083	26.8	3.19
1400	10	1917	963	20.0	0.91	11	2461	1183	22.1	1.86
	15	2968	1508	24.2	1.37	16	3634	1706	27.7	2.77
	20	4140	2103	27.0	1.85	21	5278	2431	31.2	3.72
1600	10	2190	1100	22.9	1.04	11	2813	1352	25.3	2.13
	15	3392	1723	27.7	1.57	16	4154	1950	31.7	3.17
	20	4731	2403	30.9	2.11	21	6032	2778	35.7	4.26
1800	10	2464	1238	25.7	1.17	11	3164	1521	28.4	2.39
	15	3816	1938	31.1	1.76	16	4673	2194	35.6	3.56
	20	5323	2704	34.7	2.38	21	6786	3125	40.1	4.79
2000	10	2738	1375	28.6	1.30	11	3516	1690	31.6	2.66
	15	4240	2154	34.6	1.96	16	5192	2438	39.6	3.96
	20	5914	3004	38.6	2.64	21	7540	3472	44.6	5.32
2400	10	3286	1650	34.3	1.56	11	4219	2028	37.9	3.19
	15	5088	2584	41.5	2.35	16	6230	2925	47.5	4.75
	20	7097	3605	46.3	3.17	21	9048	4167	53.5	6.38
2800	10	3833	1925	40.0	1.82	11	4922	2366	44.2	3.72
	15	5936	3015	48.4	2.74	16	7269	3413	55.4	5.54
	20	8280	4206	54.0	3.70	21	10556	4861	62.4	7.45

EN442 output at 20°C room temperature.

TEMPO HYBRID

TEMW.090 LLL TT.XXX + DBHS.LLL TT/TPT

		HEATING Comfort				HEATING Boost				COOLING Comfort	COOLING Boost	SOUND PRESSURE Comfort	SOUND PRESSURE Boost	POWER
L mm	Type	Watts 75/65	Watts 55/45	Watts 45/35	Watts 35/30	Watts 75/65	Watts 55/45	Watts 45/35	Watts 35/30	Watts 16/18	Watts 16/18	dB(A)	dB(A)	Watts Max
400	11	-	-	-	-	-	-	-	-	-	-	-	-	-
	16	-	-	-	-	-	-	-	-	-	-	-	-	-
	21	-	-	-	-	-	-	-	-	-	-	-	-	-
500	11	943	534	337	203	1102	624	394	237	126	148	30.0	38.8	5.1
	16	-	-	-	-	-	-	-	-	-	-	-	-	-
	21	-	-	-	-	-	-	-	-	-	-	-	-	-
600	11	1223	693	438	263	1447	820	518	311	164	194	30.0	40.0	6.8
	16	1503	851	538	323	1989	1126	712	428	184	244	30.0	41.1	7.2
	21	1935	1125	725	447	2561	1488	960	591	201	266	30.0	41.1	7.2
700	11	1498	848	536	322	1791	1014	641	385	201	240	30.0	41.0	7.9
	16	1747	989	625	376	2313	1310	828	498	189	250	30.0	41.1	7.2
	21	2123	1234	796	490	2810	1633	1053	648	206	273	30.0	41.1	7.2
800	11	1770	1002	633	381	2136	1210	764	460	237	286	30.0	41.8	9.1
	16	2188	1239	783	471	2936	1663	1050	632	268	360	30.0	42.4	9.0
	21	2818	1638	1056	650	3781	2197	1418	873	292	392	30.0	42.4	9.0
900	11	2037	1154	729	438	2480	1405	887	534	273	332	30.0	42.4	10.3
	16	2503	1418	896	539	3409	1931	1220	734	307	418	30.0	43.3	10.7
	21	3224	1874	1209	744	4391	2552	1646	1013	335	456	30.0	43.3	10.7
1000	11	2301	1303	823	495	2825	1600	1011	608	308	378	30.0	43.0	12.2
	16	2817	1595	1008	606	3883	2199	1389	836	345	476	30.0	44.1	10.7
	21	3627	2108	1360	837	5000	2906	1875	1154	376	519	30.0	44.1	10.7
1100	11	2582	1462	924	556	3169	1795	1134	682	346	425	30.0	43.5	14.0
	16	3051	1728	1092	657	4207	2383	1505	905	349	482	30.0	44.1	12.5
	21	3808	2213	1428	879	5249	3051	1968	1211	382	526	30.0	44.1	12.5
1200	11	2822	1598	1010	607	3514	1990	1257	756	378	471	30.0	44.0	14.8
	16	3472	1966	1242	747	4830	2735	1728	1039	426	592	30.0	44.8	14.3
	21	4471	2598	1676	1032	6220	3615	2332	1435	464	645	30.0	44.8	14.3
1400	11	3333	1888	1193	717	4203	2380	1504	905	446	563	30.0	44.8	17.5
	16	4117	2332	1473	886	5777	3272	2067	1243	504	708	30.0	45.4	14.4
	21	5302	3081	1988	1224	7440	4324	2789	1717	550	772	30.0	45.4	14.4
1600	11	3835	2172	1372	825	4892	2771	1750	1053	514	655	30.0	45.5	19.2
	16	4717	2671	1688	1015	6724	3808	2406	1447	578	824	30.0	46.4	19.6
	21	6075	3531	2278	1402	8659	5032	3246	1998	630	899	30.0	46.4	19.6
1800	11	4376	2478	1566	942	5581	3161	1997	1201	586	748	30.0	46.0	22.0
	16	5171	2929	1850	1113	7371	4175	2637	1586	586	836	30.0	46.4	19.6
	21	6424	3734	2408	1482	9157	5322	3433	2113	641	913	30.0	46.4	19.6
2000	11	4821	2730	1725	1037	6270	3551	2243	1349	646	840	30.0	46.5	24.0
	16	5971	3382	2136	1285	8618	4881	3083	1855	731	1056	30.0	47.1	23.5
	21	7690	4469	2883	1775	11098	6450	4161	2561	798	1152	30.0	47.1	23.5
2400	11	5738	3250	2053	1235	7648	4331	2736	1646	769	1025	30.0	47.2	28.0
	16	7168	4060	2565	1543	10512	5954	3761	2262	878	1288	30.0	48.1	29.7
	21	9231	5365	3461	2130	13538	7868	5075	3124	958	1405	30.0	48.1	29.7
2800	11	6599	3737	2361	1420	8790	4978	3145	1892	845	1125	30.0	47.8	31.4
	16	8348	4728	2987	1797	12406	7026	4439	2670	1022	1520	30.0	48.9	34.5
	21	10751	6248	4031	2481	15977	9286	5990	3687	1032	1534	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 200 ▪ OUTPUT TABLES

TEMPO FREESTANDING

TEMF.020 LLL TT.XXX

		SINGLE		WEIGHT	WATER CONTENT
L	Type	Watts	Watts	kg	l
mm		75/65	55/45		
400	10	262	127	3.3	0.26
	15	436	212	3.9	0.39
	20	613	299	4.5	0.53
500	10	328	159	4.1	0.33
	15	545	265	4.9	0.49
	20	766	373	5.6	0.66
600	10	393	191	4.9	0.39
	15	654	319	5.8	0.59
	20	919	448	6.7	0.79
700	10	459	223	5.7	0.46
	15	763	372	6.8	0.69
	20	1072	522	7.8	0.92
800	10	524	255	6.6	0.52
	15	872	425	7.8	0.78
	20	1226	597	9.0	1.06
900	10	590	287	7.4	0.59
	15	981	478	8.7	0.88
	20	1379	672	10.1	1.19
1000	10	655	318	8.2	0.65
	15	1090	531	9.7	0.98
	20	1532	746	11.2	1.32
1100	10	721	350	9.0	0.72
	15	1199	584	10.7	1.08
	20	1685	821	12.3	1.45
1200	10	786	382	9.8	0.78
	15	1308	637	11.6	1.18
	20	1838	895	13.4	1.58
1400	10	917	446	11.5	0.91
	15	1526	743	13.6	1.37
	20	2145	1045	15.7	1.85
1600	10	1048	509	13.1	1.04
	15	1744	850	15.5	1.57
	20	2451	1194	17.9	2.11
1800	10	1179	573	14.8	1.17
	15	1962	956	17.5	1.76
	20	2758	1343	20.2	2.38
2000	10	1310	637	16.4	1.30
	15	2180	1062	19.4	1.96
	20	3064	1493	22.4	2.64
2200	10	1441	700	18.0	1.43
	15	2398	1168	21.3	2.16
	20	3370	1642	24.6	2.90
2400	10	1572	764	19.7	1.56
	15	2616	1274	23.3	2.35
	20	3677	1791	26.9	3.17
2600	10	1703	827	21.3	1.69
	15	2834	1381	25.2	2.55
	20	3983	1940	29.1	3.43
2800	10	1834	891	23.0	1.82
	15	3052	1487	27.2	2.74
	20	4290	2090	31.4	3.70
3000	10	1965	955	24.6	1.95
	15	3270	1593	29.1	2.94
	20	4596	2239	33.6	3.96

EN442 output at 20°C room temperature.

TEMPO FREESTANDING

TEMF.030 LLL TT.XXX

	SINGLE			WEIGHT	WATER CONTENT	TWIN			WEIGHT	WATER CONTENT
L mm	Type	Watts 75/65	Watts 55/45	kg	l	Type	Watts 75/65	Watts 55/45	kg	l
400	10	330	161	4.1	0.26	11	448	215	4.8	0.53
	15	544	267	4.7	0.39	16	592	281	5.9	0.79
	20	762	373	5.4	0.53	21	779	368	6.8	1.06
500	10	413	202	5.1	0.33	11	561	269	6.0	0.67
	15	680	333	5.9	0.49	16	740	352	7.4	0.99
	20	953	467	6.8	0.66	21	974	460	8.6	1.33
600	10	496	242	6.1	0.39	11	673	323	7.1	0.80
	15	815	399	7.1	0.59	16	888	422	8.8	1.19
	20	1144	561	8.1	0.79	21	1169	552	10.3	1.60
700	10	578	282	7.1	0.46	11	785	376	8.3	0.93
	15	951	466	8.3	0.69	16	1036	492	10.3	1.39
	20	1334	654	9.5	0.92	21	1364	644	12.0	1.86
800	10	661	323	8.2	0.52	11	897	430	9.5	1.06
	15	1087	533	9.4	0.78	16	1184	563	11.8	1.58
	20	1525	747	10.8	1.06	21	1558	736	13.7	2.13
900	10	743	363	9.2	0.59	11	1009	484	10.7	1.20
	15	1223	599	10.6	0.88	16	1332	633	13.2	1.78
	20	1715	841	12.2	1.19	21	1753	828	15.4	2.39
1000	10	826	403	10.2	0.65	11	1121	537	11.9	1.33
	15	1359	666	11.8	0.98	16	1480	703	14.7	1.98
	20	1906	934	13.5	1.32	21	1948	920	17.1	2.66
1100	10	909	444	11.2	0.72	11	1233	591	13.1	1.46
	15	1495	733	13.0	1.08	16	1628	774	16.2	2.18
	20	2097	1028	14.9	1.45	21	2143	1012	18.8	2.93
1200	10	991	484	12.2	0.78	11	1345	645	14.3	1.60
	15	1631	799	14.2	1.18	16	1776	844	17.6	2.38
	20	2287	1121	16.2	1.58	21	2338	1105	20.5	3.19
1400	10	1156	565	14.3	0.91	11	1569	752	16.7	1.86
	15	1903	933	16.5	1.37	16	2072	985	20.6	2.77
	20	2668	1308	18.9	1.85	21	2727	1288	23.9	3.72
1600	10	1322	646	16.3	1.04	11	1794	860	19.0	2.13
	15	2174	1066	18.9	1.57	16	2368	1126	23.5	3.17
	20	3050	1495	21.6	2.11	21	3117	1473	27.4	4.26
1800	10	1487	726	18.4	1.17	11	2018	967	21.4	2.39
	15	2446	1199	21.2	1.76	16	2664	1266	26.5	3.56
	20	3431	1682	24.3	2.38	21	3506	1656	30.8	4.79
2000	10	1652	807	20.4	1.30	11	2242	1074	23.8	2.66
	15	2718	1332	23.6	1.96	16	2960	1407	29.4	3.96
	20	3812	1868	27.0	2.64	21	3896	1841	34.2	5.32
2400	10	1982	968	24.5	1.56	11	2690	1289	28.6	3.19
	15	3262	1599	28.3	2.35	16	3552	1688	35.3	4.75
	20	4574	2242	32.4	3.17	21	4675	2209	41.0	6.38
2800	10	2313	1130	28.6	1.82	11	3139	1504	33.3	3.72
	15	3805	1865	33.0	2.74	16	4144	1970	41.2	5.54
	20	5337	2616	37.8	3.70	21	5454	2577	47.9	7.45

EN442 output at 20°C room temperature.

TEMPO FREESTANDING HYBRID

TEMF.030 LLL TT.XXX + DBHS.LLL TT/TPT

		HEATING Comfort				HEATING Boost				COOLING Comfort	COOLING Boost	SOUND PRESSURE Comfort	SOUND PRESSURE Boost	POWER
L mm	Type	Watts 75/65	Watts 55/45	Watts 45/35	Watts 35/30	Watts 75/65	Watts 55/45	Watts 45/35	Watts 35/30	Watts 16/18	Watts 16/18	dB(A)	dB(A)	Watts Max
400	11	-	-	-	-	-	-	-	-	-	-	-	-	-
	16	-	-	-	-	-	-	-	-	-	-	-	-	-
	21	-	-	-	-	-	-	-	-	-	-	-	-	-
500	11	943	534	337	203	1102	624	394	237	158	185	30.0	38.8	5.1
	16	-	-	-	-	-	-	-	-	-	-	-	-	-
	21	-	-	-	-	-	-	-	-	-	-	-	-	-
600	11	1223	693	438	263	1447	820	518	311	205	242	30.0	40.0	6.8
	16	1503	851	538	323	1989	1126	712	428	230	305	30.0	41.1	7.2
	21	1935	1125	725	447	2561	1488	960	591	251	332	30.0	41.1	7.2
700	11	1498	848	536	322	1791	1014	641	385	251	300	30.0	41.0	7.9
	16	1747	989	625	376	2313	1310	828	498	236	312	30.0	41.1	7.2
	21	2123	1234	796	490	2810	1633	1053	648	258	341	30.0	41.1	7.2
800	11	1770	1002	633	381	2136	1210	764	460	296	358	30.0	41.8	9.1
	16	2188	1239	783	471	2936	1663	1050	632	335	450	30.0	42.4	9.0
	21	2818	1638	1056	650	3781	2197	1418	873	366	490	30.0	42.4	9.0
900	11	2037	1154	729	438	2480	1405	887	534	341	415	30.0	42.4	10.3
	16	2503	1418	896	539	3409	1931	1220	734	383	522	30.0	43.3	10.7
	21	3224	1874	1209	744	4391	2552	1646	1013	418	570	30.0	43.3	10.7
1000	11	2301	1303	823	495	2825	1600	1011	608	385	473	30.0	43.0	12.2
	16	2817	1595	1008	606	3883	2199	1389	836	431	595	30.0	44.1	10.7
	21	3627	2108	1360	837	5000	2906	1875	1154	471	649	30.0	44.1	10.7
1100	11	2582	1462	924	556	3169	1795	1134	682	432	531	30.0	43.5	14.0
	16	3051	1728	1092	657	4207	2383	1505	905	437	602	30.0	44.1	12.5
	21	3808	2213	1428	879	5249	3051	1968	1211	477	658	30.0	44.1	12.5
1200	11	2822	1598	1010	607	3514	1990	1257	756	473	589	30.0	44.0	14.8
	16	3472	1966	1242	747	4830	2735	1728	1039	532	740	30.0	44.8	14.3
	21	4471	2598	1676	1032	6220	3615	2332	1435	580	807	30.0	44.8	14.3
1400	11	3333	1888	1193	717	4203	2380	1504	905	558	704	30.0	44.8	17.5
	16	4117	2332	1473	886	5777	3272	2067	1243	630	885	30.0	45.4	14.4
	21	5302	3081	1988	1224	7440	4324	2789	1717	688	965	30.0	45.4	14.4
1600	11	3835	2172	1372	825	4892	2771	1750	1053	642	819	30.0	45.5	19.2
	16	4717	2671	1688	1015	6724	3808	2406	1447	722	1030	30.0	46.4	19.6
	21	6075	3531	2278	1402	8659	5032	3246	1998	788	1123	30.0	46.4	19.6
1800	11	4376	2478	1566	942	5581	3161	1997	1201	733	935	30.0	46.0	22.0
	16	5171	2929	1850	1113	7371	4175	2637	1586	733	1045	30.0	46.4	19.6
	21	6424	3734	2408	1482	9157	5322	3433	2113	801	1142	30.0	46.4	19.6
2000	11	4821	2730	1725	1037	6270	3551	2243	1349	807	1050	30.0	46.5	24.0
	16	5971	3382	2136	1285	8618	4881	3083	1855	914	1320	30.0	47.1	23.5
	21	7690	4469	2883	1775	11098	6450	4161	2561	998	1440	30.0	47.1	23.5
2400	11	5738	3250	2053	1235	7648	4331	2736	1646	961	1281	30.0	47.2	28.0
	16	7168	4060	2565	1543	10512	5954	3761	2262	1098	1610	30.0	48.1	29.7
	21	9231	5365	3461	2130	13538	7868	5075	3124	1197	1756	30.0	48.1	29.7
2800	11	6599	3737	2361	1420	8790	4978	3145	1892	1056	1406	30.0	47.8	31.4
	16	8348	4728	2987	1797	12406	7026	4439	2670	1278	1900	30.0	48.9	34.5
	21	10751	6248	4031	2481	15977	9286	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 400 ▪ OUTPUT TABLES ▪ TECHNICAL INFO

TEMPO FREESTANDING

TEMF.040 LLL TT.XXX

	SINGLE			WEIGHT	WATER CONTENT	TWIN			WEIGHT	WATER CONTENT
L mm	Type	Watts 75/65	Watts 55/45	kg	l	Type	Watts 75/65	Watts 55/45	kg	l
400	10	385	189	4.9	0.26	11	506	243	5.6	0.53
	15	627	309	5.6	0.39	16	680	323	6.8	0.79
	20	878	433	6.3	0.53	21	910	428	7.8	1.06
500	10	482	236	6.1	0.33	11	632	303	7.0	0.67
	15	784	386	7.0	0.49	16	850	403	8.5	0.99
	20	1098	541	7.9	0.66	21	1137	535	9.7	1.33
600	10	578	284	7.3	0.39	11	758	363	8.3	0.80
	15	941	464	8.4	0.59	16	1020	484	10.1	1.19
	20	1318	650	9.4	0.79	21	1364	641	11.6	1.60
700	10	674	331	8.5	0.46	11	885	424	9.7	0.93
	15	1098	541	9.8	0.69	16	1190	564	11.8	1.39
	20	1537	758	11.0	0.92	21	1592	749	13.6	1.86
800	10	770	378	9.8	0.52	11	1011	485	11.1	1.06
	15	1254	618	11.2	0.78	16	1360	645	13.5	1.58
	20	1757	866	12.6	1.06	21	1819	855	15.5	2.13
900	10	867	425	11.0	0.59	11	1138	546	12.5	1.20
	15	1411	695	12.6	0.88	16	1530	726	15.2	1.78
	20	1976	974	14.1	1.19	21	2047	963	17.5	2.39
1000	10	963	472	12.2	0.65	11	1264	606	13.9	1.33
	15	1568	773	14.0	0.98	16	1700	806	16.9	1.98
	20	2196	1083	15.7	1.32	21	2274	1069	19.4	2.66
1100	10	1059	520	13.4	0.72	11	1390	666	15.3	1.46
	15	1725	850	15.4	1.08	16	1870	887	18.6	2.18
	20	2416	1191	17.3	1.45	21	2501	1176	21.3	2.93
1200	10	1156	567	14.6	0.78	11	1517	727	16.7	1.60
	15	1882	928	16.8	1.18	16	2040	968	20.3	2.38
	20	2635	1299	18.8	1.58	21	2729	1283	23.3	3.19
1400	10	1348	661	17.1	0.91	11	1770	849	19.5	1.86
	15	2195	1082	19.6	1.37	16	2380	1129	23.7	2.77
	20	3074	1516	22.0	1.85	21	3184	1497	27.2	3.72
1600	10	1541	756	19.5	1.04	11	2022	969	22.2	2.13
	15	2509	1237	22.4	1.57	16	2720	1290	27.0	3.17
	20	3514	1733	25.1	2.11	21	3638	1711	31.0	4.26
1800	10	1733	850	22.0	1.17	11	2275	1091	25.0	2.39
	15	2822	1391	25.2	1.76	16	3060	1452	30.4	3.56
	20	3953	1949	28.3	2.38	21	4093	1925	34.9	4.79
2000	10	1926	945	24.4	1.30	11	2528	1212	27.8	2.66
	15	3136	1546	28.0	1.96	16	3400	1613	33.8	3.96
	20	4392	2166	31.4	2.64	21	4548	2139	38.8	5.32
2400	10	2311	1134	29.3	1.56	11	3034	1455	33.4	3.19
	15	3763	1855	33.6	2.35	16	4080	1935	40.6	4.75
	20	5270	2599	37.7	3.17	21	5458	2567	46.6	6.38
2800	10	2696	1323	34.2	1.82	11	3539	1697	38.9	3.72
	15	4390	2164	39.2	2.74	16	4760	2258	47.3	5.54
	20	6149	3032	44.0	3.70	21	6367	2994	54.3	7.45

EN442 output at 20°C room temperature.

HEIGHT 400 ▪ OUTPUT TABLES ▪ TECHNICAL INFO

TEMPO FREESTANDING HYBRID

TEMF.040 LLL TT.XXX + DBHS.LLL TT/TPT

		HEATING Comfort				HEATING Boost				COOLING Comfort	COOLING Boost	SOUND PRESSURE Comfort	SOUND PRESSURE Boost	POWER
L mm	Type	Watts 75/65	Watts 55/45	Watts 45/35	Watts 35/30	Watts 75/65	Watts 55/45	Watts 45/35	Watts 35/30	Watts 16/18	Watts 16/18	dB(A)	dB(A)	Watts Max
400	11	-	-	-	-	-	-	-	-	-	-	-	-	-
	16	-	-	-	-	-	-	-	-	-	-	-	-	-
	21	-	-	-	-	-	-	-	-	-	-	-	-	-
500	11	943	534	337	203	1102	624	394	237	158	185	30.0	38.8	5.1
	16	-	-	-	-	-	-	-	-	-	-	-	-	-
	21	-	-	-	-	-	-	-	-	-	-	-	-	-
600	11	1223	693	438	263	1447	820	518	311	205	242	30.0	40.0	6.8
	16	1503	851	538	323	1989	1126	712	428	230	305	30.0	41.1	7.2
	21	1935	1125	725	447	2561	1488	960	591	251	332	30.0	41.1	7.2
700	11	1498	848	536	322	1791	1014	641	385	251	300	30.0	41.0	7.9
	16	1747	989	625	376	2313	1310	828	498	236	312	30.0	41.1	7.2
	21	2123	1234	796	490	2810	1633	1053	648	258	341	30.0	41.1	7.2
800	11	1770	1002	633	381	2136	1210	764	460	296	358	30.0	41.8	9.1
	16	2188	1239	783	471	2936	1663	1050	632	335	450	30.0	42.4	9.0
	21	2818	1638	1056	650	3781	2197	1418	873	366	490	30.0	42.4	9.0
900	11	2037	1154	729	438	2480	1405	887	534	341	415	30.0	42.4	10.3
	16	2503	1418	896	539	3409	1931	1220	734	383	522	30.0	43.3	10.7
	21	3224	1874	1209	744	4391	2552	1646	1013	418	570	30.0	43.3	10.7
1000	11	2301	1303	823	495	2825	1600	1011	608	385	473	30.0	43.0	12.2
	16	2817	1595	1008	606	3883	2199	1389	836	431	595	30.0	44.1	10.7
	21	3627	2108	1360	837	5000	2906	1875	1154	471	649	30.0	44.1	10.7
1100	11	2582	1462	924	556	3169	1795	1134	682	432	531	30.0	43.5	14.0
	16	3051	1728	1092	657	4207	2383	1505	905	437	602	30.0	44.1	12.5
	21	3808	2213	1428	879	5249	3051	1968	1211	477	658	30.0	44.1	12.5
1200	11	2822	1598	1010	607	3514	1990	1257	756	473	589	30.0	44.0	14.8
	16	3472	1966	1242	747	4830	2735	1728	1039	532	740	30.0	44.8	14.3
	21	4471	2598	1676	1032	6220	3615	2332	1435	580	807	30.0	44.8	14.3
1400	11	3333	1888	1193	717	4203	2380	1504	905	558	704	30.0	44.8	17.5
	16	4117	2332	1473	886	5777	3272	2067	1243	630	885	30.0	45.4	14.4
	21	5302	3081	1988	1224	7440	4324	2789	1717	688	965	30.0	45.4	14.4
1600	11	3835	2172	1372	825	4892	2771	1750	1053	642	819	30.0	45.5	19.2
	16	4717	2671	1688	1015	6724	3808	2406	1447	722	1030	30.0	46.4	19.6
	21	6075	3531	2278	1402	8659	5032	3246	1998	788	1123	30.0	46.4	19.6
1800	11	4376	2478	1566	942	5581	3161	1997	1201	733	935	30.0	46.0	22.0
	16	5171	2929	1850	1113	7371	4175	2637	1586	733	1045	30.0	46.4	19.6
	21	6424	3734	2408	1482	9157	5322	3433	2113	801	1142	30.0	46.4	19.6
2000	11	4821	2730	1725	1037	6270	3551	2243	1349	807	1050	30.0	46.5	24.0
	16	5971	3382	2136	1285	8618	4881	3083	1855	914	1320	30.0	47.1	23.5
	21	7690	4469	2883	1775	11098	6450	4161	2561	998	1440	30.0	47.1	23.5
2400	11	5738	3250	2053	1235	7648	4331	2736	1646	961	1281	30.0	47.2	28.0
	16	7168	4060	2565	1543	10512	5954	3761	2262	1098	1610	30.0	48.1	29.7
	21	9231	5365	3461	2130	13538	7868	5075	3124	1197	1756	30.0	48.1	29.7
2800	11	6599	3737	2361	1420	8790	4978	3145	1892	1056	1406	30.0	47.8	31.4
	16	8348	4728	2987	1797	12406	7026	4439	2670	1278	1900	30.0	48.9	34.5
	21	10751	6248	4031	2481	15977	9286	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).

TEMPO FREESTANDING

TEMF.050 LLL TT.XXX

	SINGLE			WEIGHT	WATER CONTENT	TWIN			WEIGHT	WATER CONTENT
L mm	Type	Watts 75/65	Watts 55/45	kg	l	Type	Watts 75/65	Watts 55/45	kg	l
400	10	430	212	5.7	0.26	11	554	266	6.4	0.53
	15	694	344	6.4	0.39	16	759	359	7.6	0.79
	20	970	481	7.2	0.53	21	1033	484	8.7	1.06
500	10	538	265	7.1	0.33	11	693	332	8.0	0.67
	15	867	430	8.1	0.49	16	949	449	9.5	0.99
	20	1213	602	9.0	0.66	21	1291	605	10.9	1.33
600	10	646	318	8.5	0.39	11	832	399	9.5	0.80
	15	1040	516	9.7	0.59	16	1139	539	11.4	1.19
	20	1455	722	10.8	0.79	21	1549	725	13.0	1.60
700	10	753	371	9.9	0.46	11	970	465	11.1	0.93
	15	1214	602	11.3	0.69	16	1329	629	13.3	1.39
	20	1689	838	12.6	0.92	21	1807	846	15.2	1.86
800	10	861	424	11.4	0.52	11	1109	532	12.7	1.06
	15	1387	688	12.9	0.78	16	1518	719	15.2	1.58
	20	1940	962	14.4	1.06	21	2066	968	17.4	2.13
900	10	968	477	12.8	0.59	11	1247	598	14.3	1.20
	15	1561	774	14.5	0.88	16	1708	809	17.1	1.78
	20	2183	1083	16.2	1.19	21	2324	1088	19.5	2.39
1000	10	1076	530	14.2	0.65	11	1386	665	15.9	1.33
	15	1734	860	16.1	0.98	16	1898	898	19.0	1.98
	20	2425	1203	18.0	1.32	21	2582	1209	21.7	2.66
1100	10	1184	584	15.6	0.72	11	1525	732	17.5	1.46
	15	1907	946	17.7	1.08	16	2088	988	20.9	2.18
	20	2668	1323	19.8	1.45	21	2840	1330	23.9	2.93
1200	10	1291	636	17.0	0.78	11	1663	798	19.1	1.60
	15	2081	1032	19.3	1.18	16	2278	1078	22.8	2.38
	20	2910	1443	21.6	1.58	21	3098	1451	26.0	3.19
1400	10	1506	742	19.9	0.91	11	1940	931	22.3	1.86
	15	2428	1204	22.5	1.37	16	2657	1258	26.6	2.77
	20	3395	1684	25.2	1.85	21	3615	1693	30.4	3.72
1600	10	1722	849	22.7	1.04	11	2218	1064	25.4	2.13
	15	2774	1376	25.8	1.57	16	3037	1438	30.4	3.17
	20	3880	1924	28.8	2.11	21	4131	1935	34.7	4.26
1800	10	1937	955	25.6	1.17	11	2495	1197	28.6	2.39
	15	3121	1548	29.0	1.76	16	3416	1617	34.2	3.56
	20	4365	2165	32.4	2.38	21	4648	2177	39.1	4.79
2000	10	2152	1061	28.4	1.30	11	2772	1330	31.8	2.66
	15	3468	1720	32.2	1.96	16	3796	1797	38.0	3.96
	20	4850	2405	36.0	2.64	21	5164	2418	43.4	5.32
2400	10	2582	1273	34.1	1.56	11	3326	1596	38.2	3.19
	15	4162	2064	38.6	2.35	16	4555	2156	45.6	4.75
	20	5820	2886	43.2	3.17	21	6197	2902	52.1	6.38
2800	10	3013	1485	39.8	1.82	11	3881	1862	44.5	3.72
	15	4855	2408	45.1	2.74	16	5314	2516	53.2	5.54
	20	6790	3367	50.4	3.70	21	7230	3386	60.8	7.45

EN442 output at 20°C room temperature.

TEMPO FREESTANDING HYBRID

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

		HEATING Comfort				HEATING Boost				COOLING Comfort	COOLING Boost	SOUND PRESSURE Comfort	SOUND PRESSURE Boost	POWER
L mm	Type	Watts 75/65	Watts 55/45	Watts 45/35	Watts 35/30	Watts 75/65	Watts 55/45	Watts 45/35	Watts 35/30	Watts 16/18	Watts 16/18	dB(A)	dB(A)	Watts Max
400	11	-	-	-	-	-	-	-	-	-	-	-	-	-
	16	-	-	-	-	-	-	-	-	-	-	-	-	-
	21	-	-	-	-	-	-	-	-	-	-	-	-	-
500	11	943	534	337	203	1102	624	394	237	158	185	30.0	38.8	5.1
	16	-	-	-	-	-	-	-	-	-	-	-	-	-
	21	-	-	-	-	-	-	-	-	-	-	-	-	-
600	11	1223	693	438	263	1447	820	518	311	205	242	30.0	40.0	6.8
	16	1503	851	538	323	1989	1126	712	428	230	305	30.0	41.1	7.2
	21	1935	1125	725	447	2561	1488	960	591	251	332	30.0	41.1	7.2
700	11	1498	848	536	322	1791	1014	641	385	251	300	30.0	41.0	7.9
	16	1747	989	625	376	2313	1310	828	498	236	312	30.0	41.1	7.2
	21	2123	1234	796	490	2810	1633	1053	648	258	341	30.0	41.1	7.2
800	11	1770	1002	633	381	2136	1210	764	460	296	358	30.0	41.8	9.1
	16	2188	1239	783	471	2936	1663	1050	632	335	450	30.0	42.4	9.0
	21	2818	1638	1056	650	3781	2197	1418	873	366	490	30.0	42.4	9.0
900	11	2037	1154	729	438	2480	1405	887	534	341	415	30.0	42.4	10.3
	16	2503	1418	896	539	3409	1931	1220	734	383	522	30.0	43.3	10.7
	21	3224	1874	1209	744	4391	2552	1646	1013	418	570	30.0	43.3	10.7
1000	11	2301	1303	823	495	2825	1600	1011	608	385	473	30.0	43.0	12.2
	16	2817	1595	1008	606	3883	2199	1389	836	431	595	30.0	44.1	10.7
	21	3627	2108	1360	837	5000	2906	1875	1154	471	649	30.0	44.1	10.7
1100	11	2582	1462	924	556	3169	1795	1134	682	432	531	30.0	43.5	14.0
	16	3051	1728	1092	657	4207	2383	1505	905	437	602	30.0	44.1	12.5
	21	3808	2213	1428	879	5249	3051	1968	1211	477	658	30.0	44.1	12.5
1200	11	2822	1598	1010	607	3514	1990	1257	756	473	589	30.0	44.0	14.8
	16	3472	1966	1242	747	4830	2735	1728	1039	532	740	30.0	44.8	14.3
	21	4471	2598	1676	1032	6220	3615	2332	1435	580	807	30.0	44.8	14.3
1400	11	3333	1888	1193	717	4203	2380	1504	905	558	704	30.0	44.8	17.5
	16	4117	2332	1473	886	5777	3272	2067	1243	630	885	30.0	45.4	14.4
	21	5302	3081	1988	1224	7440	4324	2789	1717	688	965	30.0	45.4	14.4
1600	11	3835	2172	1372	825	4892	2771	1750	1053	642	819	30.0	45.5	19.2
	16	4717	2671	1688	1015	6724	3808	2406	1447	722	1030	30.0	46.4	19.6
	21	6075	3531	2278	1402	8659	5032	3246	1998	788	1123	30.0	46.4	19.6
1800	11	4376	2478	1566	942	5581	3161	1997	1201	733	935	30.0	46.0	22.0
	16	5171	2929	1850	1113	7371	4175	2637	1586	733	1045	30.0	46.4	19.6
	21	6424	3734	2408	1482	9157	5322	3433	2113	801	1142	30.0	46.4	19.6
2000	11	4821	2730	1725	1037	6270	3551	2243	1349	807	1050	30.0	46.5	24.0
	16	5971	3382	2136	1285	8618	4881	3083	1855	914	1320	30.0	47.1	23.5
	21	7690	4469	2883	1775	11098	6450	4161	2561	998	1440	30.0	47.1	23.5
2400	11	5738	3250	2053	1235	7648	4331	2736	1646	961	1281	30.0	47.2	28.0
	16	7168	4060	2565	1543	10512	5954	3761	2262	1098	1610	30.0	48.1	29.7
	21	9231	5365	3461	2130	13538	7868	5075	3124	1197	1756	30.0	48.1	29.7
2800	11	6599	3737	2361	1420	8790	4978	3145	1892	1056	1406	30.0	47.8	31.4
	16	8348	4728	2987	1797	12406	7026	4439	2670	1278	1900	30.0	48.9	34.5
	21	10751	6248	4031	2481	15977	9286	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).

jaga
CLIMATE DESIGNERS

GUARDIAN

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 envrionments.
- Hard-wearing single-piece casing enables rapid installation.
- Safety features include rounded corners and safe to touch surface, even at high flow temperatures.
- Low-H_2O 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 Jaga's Dynamic Boost Hybrid (DBH) technology and ventilation via Jaga's oXygen system.

jaga
CLIMATE DESIGNERS

GUARDIAN HYBRID

An LST radiator for heating, cooling and ventilation in one

Always leading the way in sustainable HVAC innovation, Jaga 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.

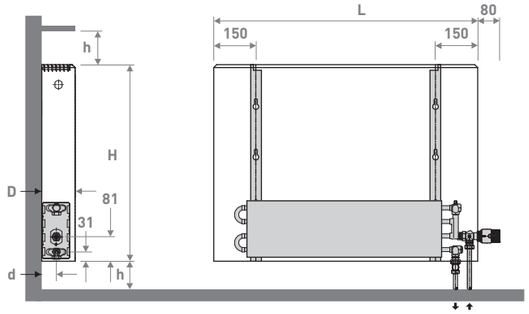
DBH is an enhanced version of Jaga's former Dynamic Boost Effect (DBE) technology, utilising small electric activators inside the unit to significantly boost output. But with the added benefit of providing light cooling.

- 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.

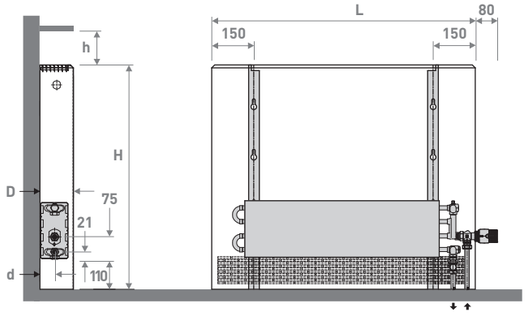
GUARDIAN ▪ DIMENSIONS

in mm

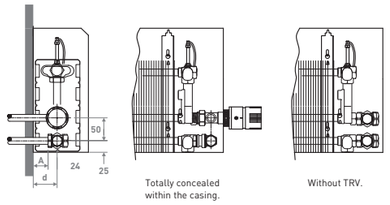
Guardian Wall Model (WT)



Guardian Floor Model (FT)



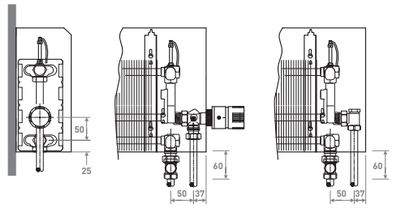
Example with Jaga valve: to the wall.



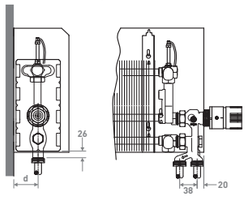
Totally concealed within the casing.

Without TRV.

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

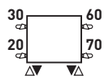
Environmentally friendly, scratch-resistant, high UV resistant powder coating.
Standard colour:
- White RAL 9016 (233), satin gloss finish.

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.

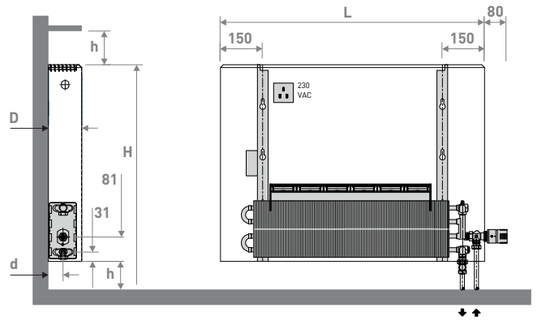
STOCK ITEMS

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.

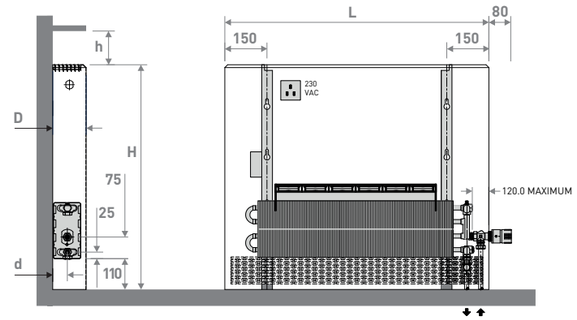
GUARDIAN HYBRID ▪ DIMENSIONS

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-H_2O 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.

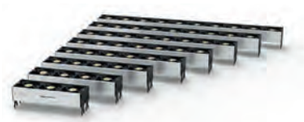
DBH to be ordered in addition to Guardian to make Guardian Hybrid.

IMPORTANT:

When ordereing 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 400 ▪ OUTPUT TABLES ▪ TECHNICAL INFO

GUARDIAN WALL MODEL (WT)

GUAR.040 LLL Dep.233/WT

		TWIN		WEIGHT	WATER CONTENT
L	Depth	Watts	Watts	kg	l
mm	mm	75/65	55/45		
440	119	234	109	4.5	0.53
	169	351	164	5.9	0.79
	219	446	206	7.1	1.06
640	119	467	218	6.6	0.80
	169	703	329	8.6	1.19
	219	893	412	10.4	1.60
840	119	701	327	8.7	1.06
	169	1054	493	11.3	1.58
	219	1339	618	13.6	2.13
1040	119	934	436	10.7	1.33
	169	1406	657	13.9	1.98
	219	1786	825	16.9	2.66
1240	119	1168	545	12.8	1.60
	169	1757	822	16.6	2.38
	219	2232	1030	20.1	3.19
1440	119	1402	654	14.8	1.86
	169	2108	986	19.3	2.77
	219	2678	1236	23.3	3.72
1640	119	1635	763	16.9	2.13
	169	2460	1150	22.0	3.17
	219	3125	1443	26.6	4.26
1840	119	1869	872	19.0	2.39
	169	2811	1314	24.7	3.56
	219	3571	1649	29.8	4.79
2040	119	2102	981	21.0	2.66
	169	3163	1479	27.3	3.96
	219	-	-	-	-

EN442 output at 20°C room temperature.

HEIGHT 400 ▪ OUTPUT TABLES ▪ TECHNICAL INFO

GUARDIAN WALL MODEL (WT) HYBRID

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

		HEATING Comfort				HEATING Boost				COOLING Comfort	COOLING Boost	SOUND PRESSURE Comfort	SOUND PRESSURE Boost	POWER
L	Depth	Watts	Watts	Watts	Watts	Watts	Watts	Watts	Watts	Watts	Watts	dB(A)	dB(A)	Watts
mm	mm	75/65	55/45	45/35	35/30	75/65	55/45	45/35	35/30	16/18	16/18			Max
440	119	-	-	-	-	-	-	-	-	-	-	-	-	-
	169	-	-	-	-	-	-	-	-	-	-	-	-	-
	219	-	-	-	-	-	-	-	-	-	-	-	-	-
640	119	1130	640	404	243	1300	736	465	280	156	185	30.0	40.0	5.1
	169	-	-	-	-	-	-	-	-	-	-	-	-	-
	219	-	-	-	-	-	-	-	-	-	-	-	-	-
840	119	1663	942	595	358	1970	1116	705	424	249	300	30.0	41.8	7.9
	169	2080	1178	744	448	2707	1533	969	583	281	377	30.0	42.4	7.2
	219	2697	1567	1011	622	3504	2036	1314	809	307	411	30.0	42.4	7.2
1040	119	2190	1240	784	471	2649	1500	948	570	338	415	30.0	43.0	10.3
	169	2705	1532	968	582	3641	2062	1303	784	379	522	30.0	44.1	10.7
	219	3500	2034	1312	808	4705	2734	1764	1086	413	570	30.0	44.1	10.7
1240	119	2709	1534	969	583	3332	1887	1192	717	426	531	30.0	44.0	14.0
	169	3238	1834	1159	697	4329	2452	1549	932	479	667	30.0	44.8	12.5
	219	4336	2520	1626	1001	5914	3437	2217	1365	523	728	30.0	44.8	12.5
1440	119	3104	1758	1111	668	3832	2170	1371	825	467	589	30.0	44.8	14.8
	169	3878	2196	1388	835	5265	2982	1884	1133	527	740	30.0	45.4	14.3
	219	5026	2921	1884	1160	6813	3960	2554	1572	575	807	30.0	45.4	14.3
1640	119	3608	2043	1291	776	4515	2557	1615	972	552	704	30.0	45.5	17.5
	169	4280	2424	1531	921	6204	3514	2220	1335	621	885	30.0	46.4	16.1
	219	5801	3371	2175	1339	8021	4662	3007	1851	677	965	30.0	46.4	16.1
1840	119	4143	2346	1482	892	5200	2945	1861	1119	642	819	30.0	46.0	19.2
	169	4644	2630	1662	999	6620	3749	2369	1425	621	885	30.0	46.4	19.6
	219	6367	3700	2387	1469	8587	4991	3219	1982	677	965	30.0	46.4	19.6
2040	119	4596	2603	1644	989	5886	3334	2106	1267	719	935	30.0	46.5	22.0
	169	5732	3246	2051	1234	8088	4581	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 WALL MODEL (WT)

GUAR.050 LLL Dep.233/WT

		TWIN		WEIGHT	WATER CONTENT
L	Depth	Watts	Watts		
mm	mm	75/65	55/45	kg	l
440	119	259	123	5.2	0.53
	169	394	187	6.6	0.79
	219	522	241	7.2	1.06
640	119	519	246	7.6	0.80
	169	788	374	9.6	1.19
	219	1044	482	10.5	1.60
840	119	778	368	9.9	1.06
	169	1181	560	12.6	1.58
	219	1566	723	13.8	2.13
1040	119	1038	491	12.3	1.33
	169	1575	747	15.6	1.98
	219	2088	963	17.1	2.66
1240	119	1297	614	14.6	1.60
	169	1969	934	18.6	2.38
	219	2610	1204	20.4	3.19
1440	119	1556	736	17.0	1.86
	169	2363	1121	21.6	2.77
	219	3132	1445	23.7	3.72
1640	119	1816	859	19.4	2.13
	169	2757	1308	24.6	3.17
	219	3654	1686	27.0	4.26
1840	119	2075	982	21.7	2.39
	169	3150	1494	27.6	3.56
	219	4176	1927	30.3	4.79
2040	119	2335	1105	24.1	2.66
	169	3544	1681	30.6	3.96
	219	-	-	-	-

EN442 output at 20°C room temperature.

HEIGHT 500 ▪ OUTPUT TABLES ▪ TECHNICAL INFO

GUARDIAN WALL MODEL (WT) HYBRID

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

		HEATING Comfort				HEATING Boost				COOLING Comfort	COOLING Boost	SOUND PRESSURE Comfort	SOUND PRESSURE Boost	POWER
L	Depth	Watts	Watts	Watts	Watts	Watts	Watts	Watts	Watts	Watts	Watts	dB(A)	dB(A)	Watts
mm	mm	75/65	55/45	45/35	35/30	75/65	55/45	45/35	35/30	16/18	16/18			Max
440	119	-	-	-	-	-	-	-	-	-	-	-	-	-
	169	-	-	-	-	-	-	-	-	-	-	-	-	-
	219	-	-	-	-	-	-	-	-	-	-	-	-	-
640	119	1130	640	404	243	1300	736	465	280	156	185	30.0	40.0	5.1
	169	-	-	-	-	-	-	-	-	-	-	-	-	-
	219	-	-	-	-	-	-	-	-	-	-	-	-	-
840	119	1663	942	595	358	1970	1116	705	424	249	300	30.0	41.8	7.9
	169	2080	1178	744	448	2707	1533	969	583	281	377	30.0	42.4	7.2
	219	2697	1567	1011	622	3504	2036	1314	809	307	411	30.0	42.4	7.2
1040	119	2190	1240	784	471	2649	1500	948	570	338	415	30.0	43.0	10.3
	169	2705	1532	968	582	3641	2062	1303	784	379	522	30.0	44.1	10.7
	219	3500	2034	1312	808	4705	2734	1764	1086	413	570	30.0	44.1	10.7
1240	119	2709	1534	969	583	3332	1887	1192	717	426	531	30.0	44.0	14.0
	169	3238	1834	1159	697	4329	2452	1549	932	479	667	30.0	44.8	12.5
	219	4336	2520	1626	1001	5914	3437	2217	1365	523	728	30.0	44.8	12.5
1440	119	3104	1758	1111	668	3832	2170	1371	825	467	589	30.0	44.8	14.8
	169	3878	2196	1388	835	5265	2982	1884	1133	527	740	30.0	45.4	14.3
	219	5026	2921	1884	1160	6813	3960	2554	1572	575	807	30.0	45.4	14.3
1640	119	3608	2043	1291	776	4515	2557	1615	972	552	704	30.0	45.5	17.5
	169	4280	2424	1531	921	6204	3514	2220	1335	621	885	30.0	46.4	16.1
	219	5801	3371	2175	1339	8021	4662	3007	1851	677	965	30.0	46.4	16.1
1840	119	4143	2346	1482	892	5200	2945	1861	1119	642	819	30.0	46.0	19.2
	169	4644	2630	1662	999	6620	3749	2369	1425	621	885	30.0	46.4	19.6
	219	6367	3700	2387	1469	8587	4991	3219	1982	677	965	30.0	46.4	19.6
2040	119	4596	2603	1644	989	5886	3334	2106	1267	719	935	30.0	46.5	22.0
	169	5732	3246	2051	1234	8088	4581	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).

GUARDIAN WALL MODEL (WT)

GUAR.060 LLL Dep.233/WT

	TWIN			WEIGHT	WATER CONTENT
L	Depth	Watts	Watts	kg	l
mm	mm	75/65	55/45		
440	119	277	133	5.8	0.53
	169	425	204	7.2	0.79
	219	593	273	8.8	1.06
640	119	554	266	8.4	0.80
	169	850	409	10.5	1.19
	219	1187	547	12.9	1.60
840	119	831	399	11.0	1.06
	169	1275	613	13.8	1.58
	219	1780	821	16.9	2.13
1040	119	1108	532	13.6	1.33
	169	1700	818	17.1	1.98
	219	2374	1095	20.9	2.66
1240	119	1385	665	16.2	1.60
	169	2125	1022	20.3	2.38
	219	2967	1368	24.9	3.19
1440	119	1662	798	18.9	1.86
	169	2550	1226	23.6	2.77
	219	3560	1642	28.9	3.72
1640	119	1939	931	21.5	2.13
	169	2975	1431	26.9	3.17
	219	4154	1916	33.0	4.26
1840	119	2216	1064	24.1	2.39
	169	3400	1635	30.2	3.56
	219	4747	2189	37.0	4.79
2040	119	2493	1197	26.7	2.66
	169	3825	1840	33.5	3.96
	219	-	-	-	-

EN442 output at 20°C room temperature.

GUARDIAN WALL MODEL (WT) HYBRID

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

		HEATING Comfort				HEATING Boost				COOLING		SOUND PRESSURE		POWER
										Comfort	Boost	Comfort	Boost	
L	Depth	Watts	Watts	Watts	Watts	Watts	Watts	Watts	Watts	Watts	Watts	dB(A)	dB(A)	Watts
mm	mm	75/65	55/45	45/35	35/30	75/65	55/45	45/35	35/30	16/18	16/18			Max
440	119	-	-	-	-	-	-	-	-	-	-	-	-	-
	169	-	-	-	-	-	-	-	-	-	-	-	-	-
	219	-	-	-	-	-	-	-	-	-	-	-	-	-
640	119	1130	640	404	243	1300	736	465	280	148	176	30.0	40.0	5.1
	169	-	-	-	-	-	-	-	-	-	-	-	-	-
	219	-	-	-	-	-	-	-	-	-	-	-	-	-
840	119	1663	942	595	358	1970	1116	705	424	237	285	30.0	41.8	7.9
	169	2080	1178	744	448	2707	1533	969	583	267	358	30.0	42.4	7.2
	219	2697	1567	1011	622	3504	2036	1314	809	292	390	30.0	42.4	7.2
1040	119	2190	1240	784	471	2649	1500	948	570	321	394	30.0	43.0	10.3
	169	2705	1532	968	582	3641	2062	1303	784	360	496	30.0	44.1	10.7
	219	3500	2034	1312	808	4705	2734	1764	1086	392	542	30.0	44.1	10.7
1240	119	2709	1534	969	583	3332	1887	1192	717	405	504	30.0	44.0	14.0
	169	3238	1834	1159	697	4329	2452	1549	932	455	634	30.0	44.8	12.5
	219	4336	2520	1626	1001	5914	3437	2217	1365	497	692	30.0	44.8	12.5
1440	119	3104	1758	1111	668	3832	2170	1371	825	444	560	30.0	44.8	14.8
	169	3878	2196	1388	835	5265	2982	1884	1133	501	703	30.0	45.4	14.3
	219	5026	2921	1884	1160	6813	3960	2554	1572	546	767	30.0	45.4	14.3
1640	119	3608	2043	1291	776	4515	2557	1615	972	524	669	30.0	45.5	17.5
	169	4280	2424	1531	921	6204	3514	2220	1335	590	841	30.0	46.4	16.1
	219	5801	3371	2175	1339	8021	4662	3007	1851	643	917	30.0	46.4	16.1
1840	119	4143	2346	1482	892	5200	2945	1861	1119	610	778	30.0	46.0	19.2
	169	4644	2630	1662	999	6620	3749	2369	1425	590	841	30.0	46.4	19.6
	219	6367	3700	2387	1469	8587	4991	3219	1982	643	917	30.0	46.4	19.6
2040	119	4596	2603	1644	989	5886	3334	2106	1267	683	888	30.0	46.5	22.0
	169	5732	3246	2051	1234	8088	4581	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).

GUARDIAN FLOOR MODEL (FT)

GUAR.040 LLL Dep.233/FT

		TWIN		WEIGHT	WATER CONTENT
L	Depth	Watts	Watts	kg	l
mm	mm	75/65	55/45		
440	119	193	90	3.4	0.53
	169	277	128	4.5	0.79
	219	339	160	6.9	1.06
640	119	385	179	4.9	0.80
	169	553	256	6.6	1.19
	219	677	320	10.0	1.60
840	119	578	269	6.5	1.06
	169	830	384	8.7	1.58
	219	1016	481	13.1	2.13
1040	119	770	358	8.0	1.33
	169	1106	512	10.7	1.98
	219	1354	641	16.2	2.66
1240	119	963	448	9.6	1.60
	169	1383	640	12.8	2.38
	219	1693	801	19.3	3.19
1440	119	1156	537	11.1	1.86
	169	1660	768	14.8	2.77
	219	2032	961	22.5	3.72
1640	119	1348	626	12.6	2.13
	169	1936	896	16.9	3.17
	219	2370	1121	25.6	4.26
1840	119	1541	716	14.2	2.39
	169	2213	1024	19.0	3.56
	219	2709	1282	28.7	4.79
2040	119	1733	805	15.7	2.66
	169	2489	1152	21.0	3.96
	219	-	-	-	-

EN442 output at 20°C room temperature.

GUARDIAN FLOOR MODEL (FT) HYBRID

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

		HEATING Comfort				HEATING Boost				COOLING Comfort	COOLING Boost	SOUND PRESSURE Comfort	SOUND PRESSURE Boost	POWER
L	Depth	Watts	Watts	Watts	Watts	Watts	Watts	Watts	Watts	Watts	Watts	dB(A)	dB(A)	Watts
mm	mm	75/65	55/45	45/35	35/30	75/65	55/45	45/35	35/30	16/18	16/18			Max
440	119	-	-	-	-	-	-	-	-	-	-	-	-	-
	169	-	-	-	-	-	-	-	-	-	-	-	-	-
	219	-	-	-	-	-	-	-	-	-	-	-	-	-
640	119	1130	640	404	243	1300	736	465	280	156	185	30.0	40.0	5.1
	169	-	-	-	-	-	-	-	-	-	-	-	-	-
	219	-	-	-	-	-	-	-	-	-	-	-	-	-
840	119	1663	942	595	358	1970	1116	705	424	249	300	30.0	41.8	7.9
	169	2080	1178	744	448	2707	1533	969	583	281	377	30.0	42.4	7.2
	219	2697	1567	1011	622	3504	2036	1314	809	307	411	30.0	42.4	7.2
1040	119	2190	1240	784	471	2649	1500	948	570	338	415	30.0	43.0	10.3
	169	2705	1532	968	582	3641	2062	1303	784	379	522	30.0	44.1	10.7
	219	3500	2034	1312	808	4705	2734	1764	1086	413	570	30.0	44.1	10.7
1240	119	2709	1534	969	583	3332	1887	1192	717	426	531	30.0	44.0	14.0
	169	3238	1834	1159	697	4329	2452	1549	932	479	667	30.0	44.8	12.5
	219	4336	2520	1626	1001	5914	3437	2217	1365	523	728	30.0	44.8	12.5
1440	119	3104	1758	1111	668	3832	2170	1371	825	467	589	30.0	44.8	14.8
	169	3878	2196	1388	835	5265	2982	1884	1133	527	740	30.0	45.4	14.3
	219	5026	2921	1884	1160	6813	3960	2554	1572	575	807	30.0	45.4	14.3
1640	119	3608	2043	1291	776	4515	2557	1615	972	552	704	30.0	45.5	17.5
	169	4280	2424	1531	921	6204	3514	2220	1335	621	885	30.0	46.4	16.1
	219	5801	3371	2175	1339	8021	4662	3007	1851	677	965	30.0	46.4	16.1
1840	119	4143	2346	1482	892	5200	2945	1861	1119	642	819	30.0	46.0	19.2
	169	4644	2630	1662	999	6620	3749	2369	1425	621	885	30.0	46.4	19.6
	219	6367	3700	2387	1469	8587	4991	3219	1982	677	965	30.0	46.4	19.6
2040	119	4596	2603	1664	989	5886	3334	2106	1267	719	935	30.0	46.5	22.0
	169	5732	3246	2051	1234	8088	4581	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).

GUARDIAN FLOOR MODEL (FT)

GUAR.050 LLL Dep.233/FT

	TWIN			WEIGHT	WATER CONTENT
L	Depth	Watts	Watts	kg	l
mm	mm	75/65	55/45		
440	**119**	221	103	4.0	0.53
	169	320	149	5.2	0.79
	219	377	176	7.1	1.06
640	**119**	442	206	5.8	0.80
	169	639	297	7.6	1.19
	219	754	352	10.4	1.60
840	**119**	663	309	7.6	1.06
	169	959	445	10.0	1.58
	219	1132	529	13.6	2.13
1040	**119**	884	412	9.4	1.33
	169	1278	593	12.4	1.98
	219	1509	705	16.9	2.66
1240	**119**	1105	515	11.2	1.60
	169	1598	742	14.8	2.38
	219	1886	881	20.1	3.19
1440	**119**	1326	618	13.0	1.86
	169	1918	890	17.1	2.77
	219	2263	1057	23.3	3.72
1640	**119**	1547	720	14.8	2.13
	169	2237	1039	19.5	3.17
	219	2640	1233	26.6	4.26
1840	**119**	1768	823	16.6	2.39
	169	2557	1187	21.9	3.56
	219	3018	1410	29.8	4.79
2040	**119**	1989	926	18.4	2.66
	169	2876	1335	24.3	3.96
	219	-	-	-	-

EN442 output at 20°C room temperature.

GUARDIAN FLOOR MODEL (FT) HYBRID

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

		HEATING Comfort				HEATING Boost				COOLING Comfort	COOLING Boost	SOUND PRESSURE Comfort	SOUND PRESSURE Boost	POWER
L	Depth	Watts	Watts	Watts	Watts	Watts	Watts	Watts	Watts	Watts	Watts	dB(A)	dB(A)	Watts
mm	mm	75/65	55/45	45/35	35/30	75/65	55/45	45/35	35/30	16/18	16/18			Max
440	**119**	-	-	-	-	-	-	-	-	-	-	-	-	-
	169	-	-	-	-	-	-	-	-	-	-	-	-	-
	219	-	-	-	-	-	-	-	-	-	-	-	-	-
640	**119**	1130	640	404	243	1300	736	465	280	156	185	30.0	40.0	5.1
	169	-	-	-	-	-	-	-	-	-	-	-	-	-
	219	-	-	-	-	-	-	-	-	-	-	-	-	-
840	**119**	1663	942	595	358	1970	1116	705	424	249	300	30.0	41.8	7.9
	169	2080	1178	744	448	2707	1533	969	583	281	377	30.0	42.4	7.2
	219	2697	1567	1011	622	3504	2036	1314	809	307	411	30.0	42.4	7.2
1040	**119**	2190	1240	784	471	2649	1500	948	570	338	415	30.0	43.0	10.3
	169	2705	1532	968	582	3641	2062	1303	784	379	522	30.0	44.1	10.7
	219	3500	2034	1312	808	4705	2734	1764	1086	413	570	30.0	44.1	10.7
1240	**119**	2709	1534	969	583	3332	1887	1192	717	426	531	30.0	44.0	14.0
	169	3238	1834	1159	697	4329	2452	1549	932	479	667	30.0	44.8	12.5
	219	4336	2520	1626	1001	5914	3437	2217	1365	523	728	30.0	44.8	12.5
1440	**119**	3104	1758	1111	668	3832	2170	1371	825	467	589	30.0	44.8	14.8
	169	3878	2196	1388	835	5265	2982	1884	1133	527	740	30.0	45.4	14.3
	219	5026	2921	1884	1160	6813	3960	2554	1572	575	807	30.0	45.4	14.3
1640	**119**	3608	2043	1291	776	4515	2557	1615	972	552	704	30.0	45.5	17.5
	169	4280	2424	1531	921	6204	3514	2220	1335	621	885	30.0	46.4	16.1
	219	5801	3371	2175	1339	8021	4662	3007	1851	677	965	30.0	46.4	16.1
1840	**119**	4143	2346	1482	892	5200	2945	1861	1119	642	819	30.0	46.0	19.2
	169	4644	2630	1662	999	6620	3749	2369	1425	621	885	30.0	46.4	19.6
	219	6367	3700	2387	1469	8587	4991	3219	1982	677	965	30.0	46.4	19.6
2040	**119**	4596	2603	1664	989	5886	3334	2106	1267	719	935	30.0	46.5	22.0
	169	5732	3246	2051	1234	8088	4581	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).

GUARDIAN FLOOR MODEL (FT)

GUAR.060 LLL Dep.233/FT

	TWIN			WEIGHT	WATER CONTENT
L	Depth	Watts	Watts	kg	l
mm	mm	75/65	55/45		
440	**119**	247	115	4.5	0.53
	169	358	167	5.9	0.79
	219	419	193	8.1	1.06
640	**119**	493	230	6.6	0.80
	169	716	333	8.6	1.19
	219	839	387	11.7	1.60
840	**119**	740	345	8.7	1.06
	169	1075	501	11.3	1.58
	219	1258	580	15.4	2.13
1040	**119**	986	460	10.7	1.33
	169	1433	667	13.9	1.98
	219	1678	774	19.0	2.66
1240	**119**	1233	575	12.8	1.60
	169	1791	834	16.6	2.38
	219	2097	967	22.7	3.19
1440	**119**	1480	691	14.8	1.86
	169	2149	1001	19.3	2.77
	219	2516	1160	26.4	3.72
1640	**119**	1726	805	16.9	2.13
	169	2507	1168	22.0	3.17
	219	2936	1353	30.0	4.26
1840	**119**	1973	921	19.0	2.39
	169	2866	1335	24.7	3.56
	219	3355	1547	33.7	4.79
2040	**119**	2219	1036	21.0	2.66
	169	3224	1501	27.3	3.96
	219	-	-	-	-

EN442 output at 20°C room temperature.

GUARDIAN FLOOR MODEL (FT) HYBRID

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

		HEATING Comfort				HEATING Boost				COOLING Comfort	COOLING Boost	SOUND PRESSURE Comfort	SOUND PRESSURE Boost	POWER
L	Depth	Watts	Watts	Watts	Watts	Watts	Watts	Watts	Watts	Watts	Watts	dB(A)	dB(A)	Watts
mm	mm	75/65	55/45	45/35	35/30	75/65	55/45	45/35	35/30	16/18	16/18			Max
440	**119**	-	-	-	-	-	-	-	-	-	-	-	-	-
	169	-	-	-	-	-	-	-	-	-	-	-	-	-
	219	-	-	-	-	-	-	-	-	-	-	-	-	-
640	**119**	1130	640	404	243	1300	736	465	280	156	185	30.0	40.0	5.1
	169	-	-	-	-	-	-	-	-	-	-	-	-	-
	219	-	-	-	-	-	-	-	-	-	-	-	-	-
840	**119**	1663	942	595	358	1970	1116	705	424	249	300	30.0	41.8	7.9
	169	2080	1178	744	448	2707	1533	969	583	281	377	30.0	42.4	7.2
	219	2697	1567	1011	622	3504	2036	1314	809	307	411	30.0	42.4	7.2
1040	**119**	2190	1240	784	471	2649	1500	948	570	338	415	30.0	43.0	10.3
	169	2705	1532	968	582	3641	2062	1303	784	379	522	30.0	44.1	10.7
	219	3500	2034	1312	808	4705	2734	1764	1086	413	570	30.0	44.1	10.7
1240	**119**	2709	1534	969	583	3332	1887	1192	717	426	531	30.0	44.0	14.0
	169	3238	1834	1159	697	4329	2452	1549	932	479	667	30.0	44.8	12.5
	219	4336	2520	1626	1001	5914	3437	2217	1365	523	728	30.0	44.8	12.5
1440	**119**	3104	1758	1111	668	3832	2170	1371	825	467	589	30.0	44.8	14.8
	169	3878	2196	1388	835	5265	2982	1884	1133	527	740	30.0	45.4	14.3
	219	5026	2921	1884	1160	6813	3960	2554	1572	575	807	30.0	45.4	14.3
1640	**119**	3608	2043	1291	776	4515	2557	1615	972	552	704	30.0	45.5	17.5
	169	4280	2424	1531	921	6204	3514	2220	1335	621	885	30.0	46.4	16.1
	219	5801	3371	2175	1339	8021	4662	3007	1851	677	965	30.0	46.4	16.1
1840	**119**	4143	2346	1482	892	5200	2945	1861	1119	642	819	30.0	46.0	19.2
	169	4644	2630	1662	999	6620	3749	2369	1425	621	885	30.0	46.4	19.6
	219	6367	3700	2387	1469	8587	4991	3219	1982	677	965	30.0	46.4	19.6
2040	**119**	4596	2603	1664	989	5886	3334	2106	1267	719	935	30.0	46.5	22.0
	169	5732	3246	2051	1234	8088	4581	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 700 ▪ OUTPUT TABLES ▪ TECHNICAL INFO

GUARDIAN FLOOR MODEL (FT)

GUAR.070 LLL Dep.233/FT

		TWIN		WEIGHT	WATER CONTENT
L	Depth	Watts	Watts	kg	l
mm	mm	75/65	55/45		
440	119	270	126	5.2	0.53
	169	393	184	6.6	0.79
	219	-	-	-	-
640	119	540	253	7.5	0.80
	169	786	367	9.5	1.19
	219	-	-	-	-
840	119	810	379	9.8	1.06
	169	1179	551	12.5	1.58
	219	-	-	-	-
1040	119	1080	505	12.2	1.33
	169	1572	734	15.5	1.98
	219	-	-	-	-
1240	119	1350	632	14.5	1.60
	169	1965	918	18.5	2.38
	219	-	-	-	-
1440	119	1620	758	16.9	1.86
	169	2358	1102	21.5	2.77
	219	-	-	-	-
1640	119	1890	884	19.2	2.13
	169	2751	1285	24.4	3.17
	219	-	-	-	-
1840	119	2160	1011	21.5	2.39
	169	3144	1469	27.4	3.56
	219	-	-	-	-
2040	119	2430	1137	23.9	2.66
	169	3537	1652	30.4	3.96
	219	-	-	-	-

EN442 output at 20°C room temperature.

HEIGHT 700 ▪ OUTPUT TABLES ▪ TECHNICAL INFO

GUARDIAN FLOOR MODEL (FT) HYBRID

GUAR.070 LLL Dep.233/FT + DBHS.LLL TT/TPT

		HEATING Comfort				HEATING Boost				COOLING Comfort	COOLING Boost	SOUND PRESSURE Comfort	SOUND PRESSURE Boost	POWER
L	Depth	Watts	Watts	Watts	Watts	Watts	Watts	Watts	Watts	Watts	Watts	dB(A)	dB(A)	Watts
mm	mm	75/65	55/45	45/35	35/30	75/65	55/45	45/35	35/30	16/18	16/18			Max
440	119	-	-	-	-	-	-	-	-	-	-	-	-	-
	169	-	-	-	-	-	-	-	-	-	-	-	-	-
	219	-	-	-	-	-	-	-	-	-	-	-	-	-
640	119	1130	640	404	243	1300	736	465	280	148	176	30.0	40.0	5.1
	169	-	-	-	-	-	-	-	-	-	-	-	-	-
	219	-	-	-	-	-	-	-	-	-	-	-	-	-
840	119	1663	942	595	358	1970	1116	705	424	237	285	30.0	41.8	7.9
	169	2080	1178	744	448	2707	1533	969	583	267	358	30.0	42.4	7.2
	219	-	-	-	-	-	-	-	-	-	-	-	-	-
1040	119	2190	1240	784	471	2649	1500	948	570	321	394	30.0	43.0	10.3
	169	2705	1532	968	582	3641	2062	1303	784	360	496	30.0	44.1	10.7
	219	-	-	-	-	-	-	-	-	-	-	-	-	-
1240	119	2709	1534	969	583	3332	1887	1192	717	405	504	30.0	44.0	14.0
	169	3238	1834	1159	697	4329	2452	1549	932	455	634	30.0	44.8	12.5
	219	-	-	-	-	-	-	-	-	-	-	-	-	-
1440	119	3104	1758	1111	668	3832	2170	1371	825	444	560	30.0	44.8	14.8
	169	3878	2196	1388	835	5265	2982	1884	1133	501	703	30.0	45.4	14.3
	219	-	-	-	-	-	-	-	-	-	-	-	-	-
1640	119	3608	2043	1291	776	4515	2557	1615	972	524	669	30.0	45.5	17.5
	169	4280	2424	1531	921	6204	3514	2220	1335	590	841	30.0	46.4	16.1
	219	-	-	-	-	-	-	-	-	-	-	-	-	-
1840	119	4143	2346	1482	892	5200	2945	1861	1119	610	778	30.0	46.0	19.2
	169	4644	2630	1662	999	6620	3749	2369	1425	590	841	30.0	46.4	19.6
	219	-	-	-	-	-	-	-	-	-	-	-	-	-
2040	119	4596	2603	1664	989	5886	3334	2106	1267	683	888	30.0	46.5	22.0
	169	5732	3246	2051	1234	8088	4581	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 FLOOR MODEL (FT)

GUAR.080 LLL Dep.233/FT

		TWIN		WEIGHT	WATER CONTENT
L	Depth	Watts	Watts	kg	l
mm	mm	75/65	55/45		
440	119	291	136	5.8	0.53
	169	425	199	7.2	0.79
	219	517	232	9.6	1.06
640	119	582	273	8.4	0.80
	169	849	398	10.5	1.19
	219	1035	465	14.0	1.60
840	119	874	410	11.0	1.06
	169	1274	597	13.8	1.58
	219	1552	697	18.4	2.13
1040	119	1165	546	13.6	1.33
	169	1698	796	17.1	1.98
	219	2070	930	22.8	2.66
1240	119	1456	683	16.2	1.60
	169	2123	995	20.3	2.38
	219	2587	1162	27.2	3.19
1440	119	1747	819	18.9	1.86
	169	2548	1194	23.6	2.77
	219	3104	1395	31.5	3.72
1640	119	2038	955	21.5	2.13
	169	2972	1393	26.9	3.17
	219	3622	1628	35.9	4.26
1840	119	2330	1092	24.1	2.39
	169	3397	1592	30.2	3.56
	219	4139	1860	40.3	4.79
2040	119	2621	1229	26.7	2.66
	169	3821	1790	33.5	3.96
	219	-	-	-	-

EN442 output at 20°C room temperature.

HEIGHT 800 ▪ OUTPUT TABLES ▪ TECHNICAL INFO

GUARDIAN FLOOR MODEL (FT) HYBRID

GUAR.080 LLL Dep.233/FT + DBHS.LLL TT/TPT

		HEATING Comfort				HEATING Boost				COOLING Comfort	COOLING Boost	SOUND PRESSURE Comfort	SOUND PRESSURE Boost	POWER
L	Depth	Watts	Watts	Watts	Watts	Watts	Watts	Watts	Watts	Watts	Watts	dB(A)	dB(A)	Watts
mm	mm	75/65	55/45	45/35	35/30	75/65	55/45	45/35	35/30	16/18	16/18			Max
440	119	-	-	-	-	-	-	-	-	-	-	-	-	-
	169	-	-	-	-	-	-	-	-	-	-	-	-	-
	219	-	-	-	-	-	-	-	-	-	-	-	-	-
640	119	1130	640	404	243	1300	736	465	280	140	167	30.0	40.0	5.1
	169	-	-	-	-	-	-	-	-	-	-	-	-	-
	219	-	-	-	-	-	-	-	-	-	-	-	-	-
840	119	1663	942	595	358	1970	1116	705	424	224	270	30.0	41.8	7.9
	169	2080	1178	744	448	2707	1533	969	583	253	339	30.0	42.4	7.2
	219	2697	1567	1011	622	3504	2036	1314	809	276	370	30.0	42.4	7.2
1040	119	2190	1240	784	471	2649	1500	948	570	304	374	30.0	43.0	10.3
	169	2705	1532	968	582	3641	2062	1303	784	341	470	30.0	44.1	10.7
	219	3500	2034	1312	808	4705	2734	1764	1086	372	513	30.0	44.1	10.7
1240	119	2709	1534	969	583	3332	1887	1192	717	383	478	30.0	44.0	14.0
	169	3238	1834	1159	697	4329	2452	1549	932	431	600	30.0	44.8	12.5
	219	4336	2520	1626	1001	5914	3437	2217	1365	471	655	30.0	44.8	12.5
1440	119	3104	1758	1111	668	3832	2170	1371	825	420	530	30.0	44.8	14.8
	169	3878	2196	1388	835	5265	2982	1884	1133	474	666	30.0	45.4	14.3
	219	5026	2921	1884	1160	6813	3960	2554	1572	518	726	30.0	45.4	14.3
1640	119	3608	2043	1291	776	4515	2557	1615	972	497	634	30.0	45.5	17.5
	169	4280	2424	1531	921	6204	3514	2220	1335	559	797	30.0	46.4	16.1
	219	5801	3371	2175	1339	8021	4662	3007	1851	609	869	30.0	46.4	16.1
1840	119	4143	2346	1482	892	5200	2945	1861	1119	578	737	30.0	46.0	19.2
	169	4644	2630	1662	999	6620	3749	2369	1425	559	797	30.0	46.4	19.6
	219	6367	3700	2387	1469	8587	4991	3219	1982	609	869	30.0	46.4	19.6
2040	119	4596	2603	1664	989	5886	3334	2106	1267	647	842	30.0	46.5	22.0
	169	5732	3246	2051	1234	8088	4581	2894	1741	733	1058	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).

jaga
CLIMATE DESIGNERS

MAXI 2020

The strongest and safest LST for maximum durability

- Jaga's strongest LST for heavy duty applications.
- Widely specified in care homes, educational establishments, prisons and secure facilities, hospitals and healthcare envrionments, 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-H_2O 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 Jaga's Dynamic Boost Hybrid (DBH) technology and ventilation via Jaga's oXygen system.

jaga
CLIMATE DESIGNERS

MAXI 2020 CONTINUOUS

Seamless warmth from wall-to-wall in robust casing

- An extremely safe, strong and highly robust option for secure facilities and applicaitons where vulnerable people may be at risk of harm.
- Designed to reduce hazards thanks to continuous finish incorporting strong welded infills and minimal edges.
- Options include:
  - Complete wall-to-wall run.
  - Anti-ligature grilles.
  - Anti-bacterial paint finish.
  - Cooling via Jaga's Dynamic Boost Hybrid (DBH) technology.
  - Ventilation via Jaga's oXygen system.
  - Dummy casings for continuous appearance.
  - Split deliveries available.

jaga
CLIMATE DESIGNERS

MAXI 2020 HYBRID

An LST radiator for heating, cooling and ventilation in one

Always leading the way in sustainable HVAC innovation, Jaga 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.

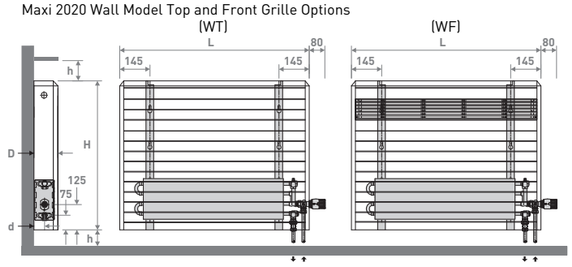
DBH is an enhanced version of Jaga's former Dynamic Boost Effect (DBE) technology, utilising small electric activators inside the unit to significantly boost output. But with the added benefit of providing light cooling.

- 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.

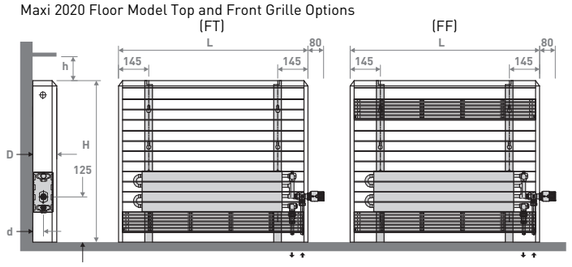
MAXI 2020 ▪ DIMENSIONS

in mm

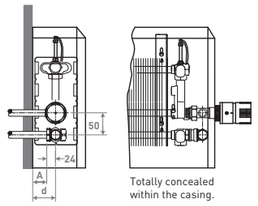
Maxi 2020 Wall Model Top and Front Grille Options



Maxi 2020 Floor Model Top and Front Grille Options

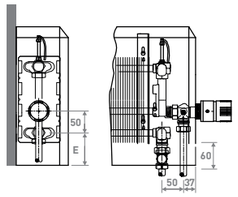


Example with Jaga valve: to the wall.

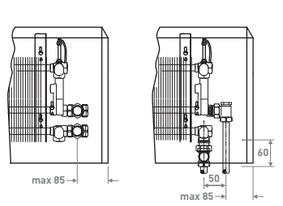


Totally concealed within the casing.

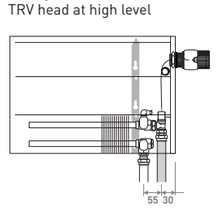
Example with Jaga valve: to the floor.



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.

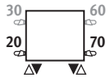
CONNECTION

Standard connection:

When ordering a Jaga 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.

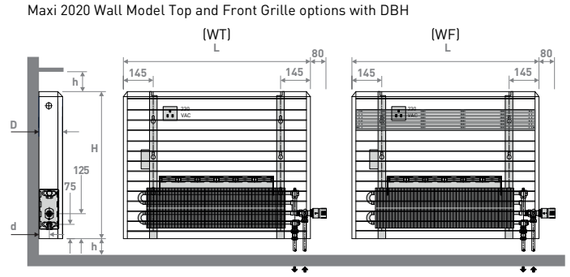
DELIVERY

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

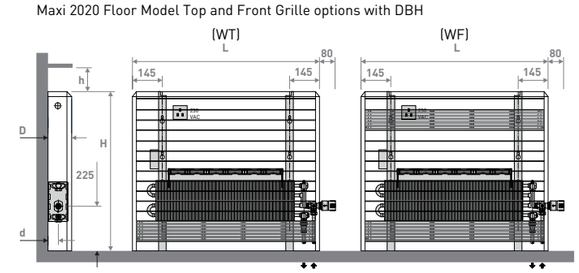
MAXI 2020 HYBRID ▪ DIMENSIONS

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-H_2O 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.

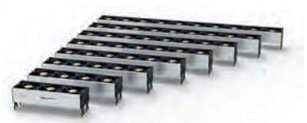
DBH to be ordered in addition to Maxi 2020 to make Maxi 2020 Hybrid.

IMPORTANT:

When ordereing 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

MAXI 2020 WALL MODEL, TOP GRILLE (WT)

MAXW.044 LLL Dep.XXX/WT

		TWIN		WEIGHT	WATER CONTENT
L	Depth	Watts	Watts	kg	l
mm	mm	75/65	55/45		
630	**130**	478	223	14.6	0.80
	180	718	333	16.6	1.19
	230	964	441	18.5	1.60
830	**130**	704	329	19.2	1.06
	180	1057	490	21.9	1.58
	230	1418	649	24.3	2.13
1030	**130**	929	434	23.8	1.33
	180	1396	647	27.2	1.98
	230	1873	857	30.2	2.66
1230	**130**	1155	539	28.4	1.60
	180	1735	805	32.5	2.38
	230	2328	1065	36.1	3.19
1430	**130**	1381	645	33.0	1.86
	180	2074	962	37.8	2.77
	230	2782	1273	41.9	3.72
1630	**130**	1606	750	37.7	2.13
	180	2413	1119	43.0	3.17
	230	3237	1481	47.8	4.26
1830	**130**	1832	855	42.3	2.39
	180	2752	1276	48.3	3.56
	230	3692	1689	53.7	4.79
2030	**130**	2057	960	46.9	2.66
	180	3091	1434	53.6	3.96
	230	4146	1897	59.5	5.32

EN442 output at 20°C room temperature.

HEIGHT 440 ▪ OUTPUT TABLES ▪ TECHNICAL INFO

MAXI 2020 WALL MODEL, TOP GRILLE (WT) HYBRID

MAXW.044 LLL Dep.XXX/WT + DBHS.LLL TT/TPT

		HEATING Comfort				HEATING Boost				COOLING		SOUND PRESSURE		POWER
										Comfort	Boost	Comfort	Boost	
L	Depth	Watts	Watts	Watts	Watts	Watts	Watts	Watts	Watts	Watts	Watts	dB(A)	dB(A)	Watts
mm	mm	75/65	55/45	45/35	35/30	75/65	55/45	45/35	35/30	16/18	16/18			Max
630	**130**	1130	640	404	243	1300	736	465	280	156	185	30.0	40.0	5.1
	180	-	-	-	-	-	-	-	-	-	-	-	-	-
	230	-	-	-	-	-	-	-	-	-	-	-	-	-
830	**130**	1663	942	595	358	1970	1116	705	424	249	300	30.0	41.8	7.9
	180	2080	1178	744	448	2707	1533	969	583	281	377	30.0	42.4	7.2
	230	2697	1567	1011	622	3504	2036	1314	809	307	411	30.0	42.4	7.2
1030	**130**	2190	1240	784	471	2649	1500	948	570	338	415	30.0	43.0	10.3
	180	2705	1532	968	582	3641	2062	1303	784	379	522	30.0	44.1	10.7
	230	3500	2034	1312	808	4705	2734	1764	1086	413	570	30.0	44.1	10.7
1230	**130**	2709	1534	969	583	3332	1887	1192	717	426	531	30.0	44.0	14.0
	180	3238	1834	1159	697	4329	2452	1549	932	479	667	30.0	44.8	12.5
	230	4336	2520	1626	1001	5914	3437	2217	1365	523	728	30.0	44.8	12.5
1430	**130**	3104	1758	1111	668	3832	2170	1371	825	467	589	30.0	44.8	14.8
	180	3878	2196	1388	835	5265	2982	1884	1133	527	740	30.0	45.4	14.3
	230	5026	2921	1884	1160	6813	3960	2554	1572	575	807	30.0	45.4	14.3
1630	**130**	3608	2043	1291	776	4515	2557	1615	972	552	704	30.0	45.5	17.5
	180	4280	2424	1531	921	6204	3514	2220	1335	621	885	30.0	46.4	16.1
	230	5801	3371	2175	1339	8021	4662	3007	1851	677	965	30.0	46.4	16.1
1830	**130**	4143	2346	1482	892	5200	2945	1861	1119	642	819	30.0	46.0	19.2
	180	4644	2630	1662	999	6620	3749	2369	1425	621	885	30.0	46.4	19.6
	230	6367	3700	2387	1469	8587	4991	3219	1982	677	965	30.0	46.4	19.6
2030	**130**	4596	2603	1644	989	5886	3334	2106	1267	719	935	30.0	46.5	22.0
	180	5732	3246	2051	1234	8088	4581	2894	1741	814	1175	30.0	47.1	19.6
	230	7413	4308	2779	1711	10446	6071	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

MAXI 2020 WALL MODEL, TOP GRILLE (WT)

MAXW.059 LLL Dep.XXX/WT

		TWIN		WEIGHT	WATER CONTENT
L	Depth	Watts	Watts	kg	l
mm	mm	75/65	55/45		
630	130	573	271	17.7	0.80
	180	877	412	20.6	1.19
	230	1166	542	22.6	1.60
830	130	844	400	23.3	1.06
	180	1290	607	27.2	1.58
	230	1716	798	29.8	2.13
1030	130	1114	528	28.9	1.33
	180	1704	801	33.7	1.98
	230	2267	1054	37.0	2.66
1230	130	1384	655	34.5	1.60
	180	2117	996	40.2	2.38
	230	2817	1310	44.2	3.19
1430	130	1655	784	40.1	1.86
	180	2531	1190	46.8	2.77
	230	3367	1566	51.4	3.72
1630	130	1925	912	45.7	2.13
	180	2944	1384	53.3	3.17
	230	3917	1821	58.6	4.26
1830	130	2196	1040	51.4	2.39
	180	3358	1579	59.9	3.56
	230	4467	2077	65.7	4.79
2030	130	2466	1168	57.0	2.66
	180	3771	1773	66.4	3.96
	230	5017	2333	72.9	5.32

EN442 output at 20°C room temperature.

HEIGHT 590 ▪ OUTPUT TABLES ▪ TECHNICAL INFO

MAXI 2020 WALL MODEL, TOP GRILLE (WT) HYBRID

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

		HEATING Comfort				HEATING Boost				COOLING		SOUND PRESSURE		POWER
										Comfort	Boost	Comfort	Boost	
L	Depth	Watts	Watts	Watts	Watts	Watts	Watts	Watts	Watts	Watts	Watts	dB(A)	dB(A)	Watts
mm	mm	75/65	55/45	45/35	35/30	75/65	55/45	45/35	35/30	16/18	16/18			Max
630	130	1130	640	404	243	1300	736	465	280	156	185	30.0	40.0	5.1
	180	-	-	-	-	-	-	-	-	-	-	-	-	-
	230	-	-	-	-	-	-	-	-	-	-	-	-	-
830	130	1663	942	595	358	1970	1116	705	424	249	300	30.0	41.8	7.9
	180	2080	1178	744	448	2707	1533	969	583	281	377	30.0	42.4	7.2
	230	2697	1567	1011	622	3504	2036	1314	809	307	411	30.0	42.4	7.2
1030	130	2190	1240	784	471	2649	1500	948	570	338	415	30.0	43.0	10.3
	180	2705	1532	968	582	3641	2062	1303	784	379	522	30.0	44.1	10.7
	230	3500	2034	1312	808	4705	2734	1764	1086	413	570	30.0	44.1	10.7
1230	130	2709	1534	969	583	3332	1887	1192	717	426	531	30.0	44.0	14.0
	180	3238	1834	1159	697	4329	2452	1549	932	479	667	30.0	44.8	12.5
	230	4336	2520	1626	1001	5914	3437	2217	1365	523	728	30.0	44.8	12.5
1430	130	3104	1758	1111	668	3832	2170	1371	825	467	589	30.0	44.8	14.8
	180	3878	2196	1388	835	5265	2982	1884	1133	527	740	30.0	45.4	14.3
	230	5026	2921	1884	1160	6813	3960	2554	1572	575	807	30.0	45.4	14.3
1630	130	3608	2043	1291	776	4515	2557	1615	972	552	704	30.0	45.5	17.5
	180	4280	2424	1531	921	6204	3514	2220	1335	621	885	30.0	46.4	16.1
	230	5801	3371	2175	1339	8021	4662	3007	1851	677	965	30.0	46.4	16.1
1830	130	4143	2346	1482	892	5200	2945	1861	1119	642	819	30.0	46.0	19.2
	180	4644	2630	1662	999	6620	3749	2369	1425	621	885	30.0	46.4	19.6
	230	6367	3700	2387	1469	8587	4991	3219	1982	677	965	30.0	46.4	19.6
2030	130	4596	2603	1644	989	5886	3334	2106	1267	719	935	30.0	46.5	22.0
	180	5732	3246	2051	1234	8088	4581	2894	1741	814	1175	30.0	47.1	19.6
	230	7413	4308	2779	1711	10446	6071	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 WALL MODEL, TOP GRILLE (WT)

MAXW.074 LLL Dep.XXX/WT

	TWIN			WEIGHT	WATER CONTENT
L	Depth	Watts	Watts	kg	l
mm	mm	75/65	55/45		
630	**130**	631	300	22.5	0.80
	180	958	453	25.0	1.19
	230	1347	635	27.1	1.60
830	**130**	928	442	29.7	1.06
	180	1410	667	32.9	1.58
	230	1982	935	35.7	2.13
1030	**130**	1225	583	36.8	1.33
	180	1862	881	40.8	1.98
	230	2617	1234	44.3	2.66
1230	**130**	1523	725	44.0	1.60
	180	2314	1094	48.7	2.38
	230	3253	1534	52.9	3.19
1430	**130**	1820	866	51.1	1.86
	180	2766	1308	56.6	2.77
	230	3888	1834	61.5	3.72
1630	**130**	2118	1008	58.2	2.13
	180	3218	1522	64.6	3.17
	230	4523	2133	70.1	4.26
1830	**130**	2415	1149	65.4	2.39
	180	3669	1735	72.5	3.56
	230	5158	2433	78.7	4.79
2030	**130**	2713	1291	72.5	2.66
	180	4121	1949	80.4	3.96
	230	5794	2733	87.3	5.32

EN442 output at 20°C room temperature.

HEIGHT 740 ▪ OUTPUT TABLES ▪ TECHNICAL INFO

MAXI 2020 WALL MODEL, TOP GRILLE (WT) HYBRID

MAXW.074 LLL Dep.XXX/WT + DBHS.LLL TT/TPT

		HEATING Comfort				HEATING Boost				COOLING		SOUND PRESSURE		POWER
										Comfort	Boost	Comfort	Boost	
L	Depth	Watts	Watts	Watts	Watts	Watts	Watts	Watts	Watts	Watts	Watts	dB(A)	dB(A)	Watts
mm	mm	75/65	55/45	45/35	35/30	75/65	55/45	45/35	35/30	16/18	16/18			Max
630	**130**	1130	640	404	243	1300	736	465	280	140	167	30.0	40.0	5.1
	180	-	-	-	-	-	-	-	-	-	-	-	-	-
	230	-	-	-	-	-	-	-	-	-	-	-	-	-
830	**130**	1663	942	595	358	1970	1116	705	424	224	270	30.0	41.8	7.9
	180	2080	1178	744	448	2707	1533	969	583	253	339	30.0	42.4	7.2
	230	2697	1567	1011	622	3504	2036	1314	809	276	370	30.0	42.4	7.2
1030	**130**	2190	1240	784	471	2649	1500	948	570	304	374	30.0	43.0	10.3
	180	2705	1532	968	582	3641	2062	1303	784	341	470	30.0	44.1	10.7
	230	3500	2034	1312	808	4705	2734	1764	1086	372	513	30.0	44.1	10.7
1230	**130**	2709	1534	969	583	3332	1887	1192	717	383	478	30.0	44.0	14.0
	180	3238	1834	1159	697	4329	2452	1549	932	431	600	30.0	44.8	12.5
	230	4336	2520	1626	1001	5914	3437	2217	1365	471	655	30.0	44.8	12.5
1430	**130**	3104	1758	1111	668	3832	2170	1371	825	420	530	30.0	44.8	14.8
	180	3878	2196	1388	835	5265	2982	1884	1133	474	666	30.0	45.4	14.3
	230	5026	2921	1884	1160	6813	3960	2554	1572	518	726	30.0	45.4	14.3
1630	**130**	3608	2043	1291	776	4515	2557	1615	972	497	634	30.0	45.5	17.5
	180	4280	2424	1531	921	6204	3514	2220	1335	559	797	30.0	46.4	16.1
	230	5801	3371	2175	1339	8021	4662	3007	1851	609	869	30.0	46.4	16.1
1830	**130**	4143	2346	1482	892	5200	2945	1861	1119	578	737	30.0	46.0	19.2
	180	4644	2630	1662	999	6620	3749	2369	1425	559	797	30.0	46.4	19.6
	230	6367	3700	2387	1469	8587	4991	3219	1982	609	869	30.0	46.4	19.6
2030	**130**	4596	2603	1644	989	5886	3334	2106	1267	647	842	30.0	46.5	22.0
	180	5732	3246	2051	1234	8088	4581	2894	1741	733	1058	30.0	47.1	19.6
	230	7413	4308	2779	1711	10446	6071	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

MAXI 2020 WALL MODEL, FOOT GRILLE (WF)

MAXW.044 LLL Dep.XXX/WF

		TWIN		WEIGHT	WATER CONTENT
L	Depth	Watts	Watts	kg	l
mm	mm	75/65	55/45		
630	**130**	334	159	14.0	0.80
	180	497	228	16.6	1.19
	230	620	284	19.0	1.60
830	**130**	491	234	18.5	1.06
	180	732	336	21.9	1.58
	230	913	419	25.0	2.13
1030	**130**	649	309	22.9	1.33
	180	967	444	27.2	1.98
	230	1206	553	31.0	2.66
1230	**130**	807	384	27.4	1.60
	180	1201	551	32.5	2.38
	230	1498	687	37.0	3.19
1430	**130**	964	459	31.8	1.86
	180	1436	659	37.8	2.77
	230	1791	821	43.0	3.72
1630	**130**	1122	534	36.2	2.13
	180	1670	766	43.0	3.17
	230	2084	955	49.1	4.26
1830	**130**	1279	609	40.7	2.39
	180	1905	874	48.3	3.56
	230	2376	1089	55.1	4.79
2030	**130**	1437	684	45.1	2.66
	180	2140	982	53.6	3.96
	230	2669	1223	61.1	5.32

EN442 output at 20°C room temperature.

HEIGHT 440 ▪ OUTPUT TABLES ▪ TECHNICAL INFO

MAXI 2020 WALL MODEL, FOOT GRILLE (WF) HYBRID

MAXW.044 LLL Dep.XXX/WF + DBHS.LLL TT/TPT

		HEATING Comfort				HEATING Boost				COOLING		SOUND PRESSURE		POWER
										Comfort	Boost	Comfort	Boost	
L	Depth	Watts	Watts	Watts	Watts	Watts	Watts	Watts	Watts	Watts	Watts	dB(A)	dB(A)	Watts
mm	mm	75/65	55/45	45/35	35/30	75/65	55/45	45/35	35/30	16/18	16/18			Max
630	**130**	1130	640	404	243	1300	736	465	280	Refer to Jaga Technical Department		30.0	40.0	5.1
	180	-	-	-	-	-	-	-	-			-	-	-
	230	-	-	-	-	-	-	-	-			-	-	-
830	**130**	1663	942	595	358	1970	1116	705	424	Refer to Jaga Technical Department		30.0	41.8	7.9
	180	2080	1178	744	448	2707	1533	969	583			30.0	42.4	7.2
	230	2697	1567	1011	622	3504	2036	1314	809			30.0	42.4	7.2
1030	**130**	2190	1240	784	471	2649	1500	948	570	Refer to Jaga Technical Department		30.0	43.0	10.3
	180	2705	1532	968	582	3641	2062	1303	784			30.0	44.1	10.7
	230	3500	2034	1312	808	4705	2734	1764	1086			30.0	44.1	10.7
1230	**130**	2709	1534	969	583	3332	1887	1192	717	Refer to Jaga Technical Department		30.0	44.0	14.0
	180	3238	1834	1159	697	4329	2452	1549	932			30.0	44.8	12.5
	230	4336	2520	1626	1001	5914	3437	2217	1365			30.0	44.8	12.5
1430	**130**	3104	1758	1111	668	3832	2170	1371	825	Refer to Jaga Technical Department		30.0	44.8	14.8
	180	3878	2196	1388	835	5265	2982	1884	1133			30.0	45.4	14.3
	230	5026	2921	1884	1160	6813	3960	2554	1572			30.0	45.4	14.3
1630	**130**	3608	2043	1291	776	4515	2557	1615	972	Refer to Jaga Technical Department		30.0	45.5	17.5
	180	4280	2424	1531	921	6204	3514	2220	1335			30.0	46.4	16.1
	230	5801	3371	2175	1339	8021	4662	3007	1851			30.0	46.4	16.1
1830	**130**	4143	2346	1482	892	5200	2945	1861	1119	Refer to Jaga Technical Department		30.0	46.0	19.2
	180	4644	2630	1662	999	6620	3749	2369	1425			30.0	46.4	19.6
	230	6367	3700	2387	1469	8587	4991	3219	1982			30.0	46.4	19.6
2030	**130**	4596	2603	1644	989	5886	3334	2106	1267	Refer to Jaga Technical Department		30.0	46.5	22.0
	180	5732	3246	2051	1234	8088	4581	2894	1741			30.0	47.1	19.6
	230	7413	4308	2779	1711	10446	6071	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 590 ▪ OUTPUT TABLES ▪ TECHNICAL INFO

MAXI 2020 WALL MODEL, FOOT GRILLE (WF)

MAXW.059 LLL Dep.XXX/WF

	TWIN			WEIGHT	WATER CONTENT
L	Depth	Watts	Watts	kg	l
mm	mm	75/65	55/45		
630	**130**	458	215	17.7	0.80
	180	664	307	20.5	1.19
	230	868	403	23.1	1.60
830	**130**	674	316	23.4	1.06
	180	978	453	27.0	1.58
	230	1277	592	30.5	2.13
1030	**130**	890	417	29.0	1.33
	180	1291	598	33.5	1.98
	230	1686	782	37.8	2.66
1230	**130**	1105	518	34.6	1.60
	180	1605	743	40.0	2.38
	230	2096	972	45.1	3.19
1430	**130**	1321	619	40.3	1.86
	180	1918	888	46.5	2.77
	230	2505	1162	52.5	3.72
1630	**130**	1537	720	45.9	2.13
	180	2231	1033	53.0	3.17
	230	2914	1352	59.8	4.26
1830	**130**	1753	821	51.5	2.39
	180	2545	1178	59.5	3.56
	230	3324	1542	67.2	4.79
2030	**130**	1969	923	57.2	2.66
	180	2858	1323	66.0	3.96
	230	3733	1731	74.5	5.32

EN442 output at 20°C room temperature.

HEIGHT 590 ▪ OUTPUT TABLES ▪ TECHNICAL INFO

MAXI 2020 WALL MODEL, FOOT GRILLE (WF) HYBRID

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

		HEATING Comfort				HEATING Boost				COOLING		SOUND PRESSURE		POWER
										Comfort	Boost	Comfort	Boost	
L	Depth	Watts	Watts	Watts	Watts	Watts	Watts	Watts	Watts	Watts	Watts	dB(A)	dB(A)	Watts
mm	mm	75/65	55/45	45/35	35/30	75/65	55/45	45/35	35/30	16/18	16/18			Max
630	**130**	1130	640	404	243	1300	736	465	280	Refer to Jaga Technical Department		30.0	40.0	5.1
	180	-	-	-	-	-	-	-	-			-	-	-
	230	-	-	-	-	-	-	-	-			-	-	-
830	**130**	1663	942	595	358	1970	1116	705	424	Refer to Jaga Technical Department		30.0	41.8	7.9
	180	2080	1178	744	448	2707	1533	969	583			30.0	42.4	7.2
	230	2697	1567	1011	622	3504	2036	1314	809			30.0	42.4	7.2
1030	**130**	2190	1240	784	471	2649	1500	948	570	Refer to Jaga Technical Department		30.0	43.0	10.3
	180	2705	1532	968	582	3641	2062	1303	784			30.0	44.1	10.7
	230	3500	2034	1312	808	4705	2734	1764	1086			30.0	44.1	10.7
1230	**130**	2709	1534	969	583	3332	1887	1192	717	Refer to Jaga Technical Department		30.0	44.0	14.0
	180	3238	1834	1159	697	4329	2452	1549	932			30.0	44.8	12.5
	230	4336	2520	1626	1001	5914	3437	2217	1365			30.0	44.8	12.5
1430	**130**	3104	1758	1111	668	3832	2170	1371	825	Refer to Jaga Technical Department		30.0	44.8	14.8
	180	3878	2196	1388	835	5265	2982	1884	1133			30.0	45.4	14.3
	230	5026	2921	1884	1160	6813	3960	2554	1572			30.0	45.4	14.3
1630	**130**	3608	2043	1291	776	4515	2557	1615	972	Refer to Jaga Technical Department		30.0	45.5	17.5
	180	4280	2424	1531	921	6204	3514	2220	1335			30.0	46.4	16.1
	230	5801	3371	2175	1339	8021	4662	3007	1851			30.0	46.4	16.1
1830	**130**	4143	2346	1482	892	5200	2945	1861	1119	Refer to Jaga Technical Department		30.0	46.0	19.2
	180	4644	2630	1662	999	6620	3749	2369	1425			30.0	46.4	19.6
	230	6367	3700	2387	1469	8587	4991	3219	1982			30.0	46.4	19.6
2030	**130**	4596	2603	1644	989	5886	3334	2106	1267	Refer to Jaga Technical Department		30.0	46.5	22.0
	180	5732	3246	2051	1234	8088	4581	2894	1741			30.0	47.1	19.6
	230	7413	4308	2779	1711	10446	6071	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

MAXI 2020 WALL MODEL, FOOT GRILLE (WF)

MAXW.074 LLL Dep.XXX/WF

		TWIN		WEIGHT	WATER CONTENT
L	Depth	Watts	Watts		
mm	mm	75/65	55/45	kg	l
630	130	569	264	21.9	0.80
	180	798	373	24.9	1.19
	230	992	461	27.5	1.60
830	130	838	389	28.9	1.06
	180	1175	549	32.8	1.58
	230	1461	678	36.3	2.13
1030	130	1107	514	35.8	1.33
	180	1552	725	40.7	1.98
	230	1929	896	45.0	2.66
1230	130	1375	639	42.8	1.60
	180	1928	901	48.6	2.38
	230	2397	1113	53.7	3.19
1430	130	1644	764	49.7	1.86
	180	2305	1077	56.5	2.77
	230	2865	1330	62.5	3.72
1630	130	1913	889	56.7	2.13
	180	2681	1253	64.4	3.17
	230	3333	1547	71.2	4.26
1830	130	2181	1014	63.6	2.39
	180	3058	1429	72.3	3.56
	230	3801	1765	80.0	4.79
2030	130	2450	1139	70.6	2.66
	180	3435	1605	80.2	3.96
	230	4270	1982	88.7	5.32

EN442 output at 20°C room temperature.

HEIGHT 740 ▪ OUTPUT TABLES ▪ TECHNICAL INFO

MAXI 2020 WALL MODEL, FOOT GRILLE (WF) HYBRID

MAXW.074 LLL Dep.XXX/WF + DBHS.LLL TT/TPT

		HEATING Comfort				HEATING Boost				COOLING		SOUND PRESSURE		POWER
										Comfort	Boost	Comfort	Boost	
L	Depth	Watts	Watts	Watts	Watts	Watts	Watts	Watts	Watts	Watts	Watts	dB(A)	dB(A)	Watts
mm	mm	75/65	55/45	45/35	35/30	75/65	55/45	45/35	35/30	16/18	16/18			Max
630	130	1130	640	404	243	1300	736	465	280	Refer to Jaga Technical Department		30.0	40.0	5.1
	180	-	-	-	-	-	-	-	-			-	-	-
	230	-	-	-	-	-	-	-	-			-	-	-
830	130	1663	942	595	358	1970	1116	705	424	Refer to Jaga Technical Department		30.0	41.8	7.9
	180	2080	1178	744	448	2707	1533	969	583			30.0	42.4	7.2
	230	2697	1567	1011	622	3504	2036	1314	809			30.0	42.4	7.2
1030	130	2190	1240	784	471	2649	1500	948	570	Refer to Jaga Technical Department		30.0	43.0	10.3
	180	2705	1532	968	582	3641	2062	1303	784			30.0	44.1	10.7
	230	3500	2034	1312	808	4705	2734	1764	1086			30.0	44.1	10.7
1230	130	2709	1534	969	583	3332	1887	1192	717	Refer to Jaga Technical Department		30.0	44.0	14.0
	180	3238	1834	1159	697	4329	2452	1549	932			30.0	44.8	12.5
	230	4336	2520	1626	1001	5914	3437	2217	1365			30.0	44.8	12.5
1430	130	3104	1758	1111	668	3832	2170	1371	825	Refer to Jaga Technical Department		30.0	44.8	14.8
	180	3878	2196	1388	835	5265	2982	1884	1133			30.0	45.4	14.3
	230	5026	2921	1884	1160	6813	3960	2554	1572			30.0	45.4	14.3
1630	130	3608	2043	1291	776	4515	2557	1615	972	Refer to Jaga Technical Department		30.0	45.5	17.5
	180	4280	2424	1531	921	6204	3514	2220	1335			30.0	46.4	16.1
	230	5801	3371	2175	1339	8021	4662	3007	1851			30.0	46.4	16.1
1830	130	4143	2346	1482	892	5200	2945	1861	1119	Refer to Jaga Technical Department		30.0	46.0	19.2
	180	4644	2630	1662	999	6620	3749	2369	1425			30.0	46.4	19.6
	230	6367	3700	2387	1469	8587	4991	3219	1982			30.0	46.4	19.6
2030	130	4596	2603	1644	989	5886	3334	2106	1267	Refer to Jaga Technical Department		30.0	46.5	22.0
	180	5732	3246	2051	1234	8088	4581	2894	1741			30.0	47.1	19.6
	230	7413	4308	2779	1711	10446	6071	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

MAXI 2020 FLOOR MODEL, TOP GRILLE (FT)

MAXF.044 LLL Dep.XXX/FT

	TWIN			WEIGHT	WATER CONTENT
L	Depth	Watts	Watts	kg	l
mm	mm	75/65	55/45		
630	**130**	391	180	13.0	0.80
	180	560	256	15.1	1.19
	230	722	328	16.9	1.60
830	**130**	575	265	17.2	1.06
	180	824	377	19.9	1.58
	230	1063	483	22.3	2.13
1030	**130**	759	349	21.3	1.33
	180	1088	497	24.7	1.98
	230	1404	638	27.7	2.66
1230	**130**	943	434	25.4	1.60
	180	1352	618	29.5	2.38
	230	1744	793	33.1	3.19
1430	**130**	1127	518	29.6	1.86
	180	1616	739	34.3	2.77
	230	2085	947	38.5	3.72
1630	**130**	1312	604	33.7	2.13
	180	1880	860	39.1	3.17
	230	2426	1102	43.8	4.26
1830	**130**	1496	688	37.8	2.39
	180	2144	980	43.9	3.56
	230	2766	1257	49.2	4.79
2030	**130**	1680	773	42.0	2.66
	180	2408	1101	48.7	3.96
	230	3107	1412	54.6	5.32

EN442 output at 20°C room temperature.

HEIGHT 440 ▪ OUTPUT TABLES ▪ TECHNICAL INFO

MAXI 2020 FLOOR MODEL, TOP GRILLE (FT) HYBRID

MAXF.044 LLL Dep.XXX/FT + DBHS.LLL TT/TPT

		HEATING Comfort				HEATING Boost				COOLING Comfort	COOLING Boost	SOUND PRESSURE Comfort	SOUND PRESSURE Boost	POWER
L	Depth	Watts	Watts	Watts	Watts	Watts	Watts	Watts	Watts	Watts	Watts	dB(A)	dB(A)	Watts
mm	mm	75/65	55/45	45/35	35/30	75/65	55/45	45/35	35/30	16/18	16/18			Max
630	**130**	1130	640	404	243	1300	736	465	280	156	185	30.0	40.0	5.1
	180	-	-	-	-	-	-	-	-	-	-	-	-	-
	230	-	-	-	-	-	-	-	-	-	-	-	-	-
830	**130**	1663	942	595	358	1970	1116	705	424	249	300	30.0	41.8	7.9
	180	2080	1178	744	448	2707	1533	969	583	281	377	30.0	42.4	7.2
	230	2697	1567	1011	622	3504	2036	1314	809	307	411	30.0	42.4	7.2
1030	**130**	2190	1240	784	471	2649	1500	948	570	338	415	30.0	43.0	10.3
	180	2705	1532	968	582	3641	2062	1303	784	379	522	30.0	44.1	10.7
	230	3500	2034	1312	808	4705	2734	1764	1086	413	570	30.0	44.1	10.7
1230	**130**	2709	1534	969	583	3332	1887	1192	717	426	531	30.0	44.0	14.0
	180	3238	1834	1159	697	4329	2452	1549	932	479	667	30.0	44.8	12.5
	230	4336	2520	1626	1001	5914	3437	2217	1365	523	728	30.0	44.8	12.5
1430	**130**	3104	1758	1111	668	3832	2170	1371	825	467	589	30.0	44.8	14.8
	180	3878	2196	1388	835	5265	2982	1884	1133	527	740	30.0	45.4	14.3
	230	5026	2921	1884	1160	6813	3960	2554	1572	575	807	30.0	45.4	14.3
1630	**130**	3608	2043	1291	776	4515	2557	1615	972	552	704	30.0	45.5	17.5
	180	4280	2424	1531	921	6204	3514	2220	1335	621	885	30.0	46.4	16.1
	230	5801	3371	2175	1339	8021	4662	3007	1851	677	965	30.0	46.4	16.1
1830	**130**	4143	2346	1482	892	5200	2945	1861	1119	642	819	30.0	46.0	19.2
	180	4644	2630	1662	999	6620	3749	2369	1425	621	885	30.0	46.4	19.6
	230	6367	3700	2387	1469	8587	4991	3219	1982	677	965	30.0	46.4	19.6
2030	**130**	4596	2603	1644	989	5886	3334	2106	1267	719	935	30.0	46.5	22.0
	180	5732	3246	2051	1234	8088	4581	2894	1741	814	1175	30.0	47.1	19.6
	230	7413	4308	2779	1711	10446	6071	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

MAXI 2020 FLOOR MODEL, TOP GRILLE (FT)

MAXF.059 LLL Dep.XXX/FT

		TWIN		WEIGHT	WATER CONTENT
L	Depth	Watts	Watts	kg	l
mm	mm	75/65	55/45		
630	**130**	498	230	16.9	0.80
	180	732	337	19.1	1.19
	230	948	434	21.1	1.60
830	**130**	732	338	22.2	1.06
	180	1078	496	25.2	1.58
	230	1395	639	27.8	2.13
1030	**130**	967	447	27.6	1.33
	180	1423	654	31.3	1.98
	230	1842	843	34.5	2.66
1230	**130**	1202	556	33.0	1.60
	180	1768	813	37.4	2.38
	230	2289	1048	41.2	3.19
1430	**130**	1437	664	38.3	1.86
	180	2114	972	43.5	2.77
	230	2736	1253	47.9	3.72
1630	**130**	1671	772	43.7	2.13
	180	2459	1131	49.5	3.17
	230	3183	1458	54.6	4.26
1830	**130**	1906	881	49.0	2.39
	180	2804	1289	55.6	3.56
	230	3630	1662	61.3	4.79
2030	**130**	2141	989	54.4	2.66
	180	3150	1448	61.7	3.96
	230	4078	1867	68.0	5.32

EN442 output at 20°C room temperature.

HEIGHT 590 ▪ OUTPUT TABLES ▪ TECHNICAL INFO

MAXI 2020 FLOOR MODEL, TOP GRILLE (FT) HYBRID

MAXF.059 LLL Dep.XXX/FT + DBHS.LLL TT/TPT

		HEATING Comfort				HEATING Boost				COOLING Comfort	COOLING Boost	SOUND PRESSURE Comfort	SOUND PRESSURE Boost	POWER
L	Depth	Watts	Watts	Watts	Watts	Watts	Watts	Watts	Watts	Watts	Watts	dB(A)	dB(A)	Watts
mm	mm	75/65	55/45	45/35	35/30	75/65	55/45	45/35	35/30	16/18	16/18			Max
630	**130**	1130	640	404	243	1300	736	465	280	156	185	30.0	40.0	5.1
	180	-	-	-	-	-	-	-	-	-	-	-	-	-
	230	-	-	-	-	-	-	-	-	-	-	-	-	-
830	**130**	1663	942	595	358	1970	1116	705	424	249	300	30.0	41.8	7.9
	180	2080	1178	744	448	2707	1533	969	583	281	377	30.0	42.4	7.2
	230	2697	1567	1011	622	3504	2036	1314	809	307	411	30.0	42.4	7.2
1030	**130**	2190	1240	784	471	2649	1500	948	570	338	415	30.0	43.0	10.3
	180	2705	1532	968	582	3641	2062	1303	784	379	522	30.0	44.1	10.7
	230	3500	2034	1312	808	4705	2734	1764	1086	413	570	30.0	44.1	10.7
1230	**130**	2709	1534	969	583	3332	1887	1192	717	426	531	30.0	44.0	14.0
	180	3238	1834	1159	697	4329	2452	1549	932	479	667	30.0	44.8	12.5
	230	4336	2520	1626	1001	5914	3437	2217	1365	523	728	30.0	44.8	12.5
1430	**130**	3104	1758	1111	668	3832	2170	1371	825	467	589	30.0	44.8	14.8
	180	3878	2196	1388	835	5265	2982	1884	1133	527	740	30.0	45.4	14.3
	230	5026	2921	1884	1160	6813	3960	2554	1572	575	807	30.0	45.4	14.3
1630	**130**	3608	2043	1291	776	4515	2557	1615	972	552	704	30.0	45.5	17.5
	180	4280	2424	1531	921	6204	3514	2220	1335	621	885	30.0	46.4	16.1
	230	5801	3371	2175	1339	8021	4662	3007	1851	677	965	30.0	46.4	16.1
1830	**130**	4143	2346	1482	892	5200	2945	1861	1119	642	819	30.0	46.0	19.2
	180	4644	2630	1662	999	6620	3749	2369	1425	621	885	30.0	46.4	19.6
	230	6367	3700	2387	1469	8587	4991	3219	1982	677	965	30.0	46.4	19.6
2030	**130**	4596	2603	1644	989	5886	3334	2106	1267	719	935	30.0	46.5	22.0
	180	5732	3246	2051	1234	8088	4581	2894	1741	814	1175	30.0	47.1	19.6
	230	7413	4308	2779	1711	10446	6071	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 FLOOR MODEL, TOP GRILLE (FT)

MAXF.074 LLL Dep.XXX/FT

		TWIN		WEIGHT	WATER CONTENT
L	Depth	Watts	Watts	kg	l
mm	mm	75/65	55/45		
630	**130**	594	278	21.0	0.80
	180	885	414	23.4	1.19
	230	1080	501	25.3	1.60
830	**130**	874	410	27.7	1.06
	180	1302	610	30.9	1.58
	230	1590	737	33.3	2.13
1030	**130**	1154	541	34.4	1.33
	180	1720	806	38.3	1.98
	230	2100	974	41.3	2.66
1230	**130**	1434	672	41.1	1.60
	180	2137	1001	45.7	2.38
	230	2609	1210	49.3	3.19
1430	**130**	1714	803	47.8	1.86
	180	2555	1197	53.2	2.77
	230	3119	1447	57.3	3.72
1630	**130**	1994	934	54.4	2.13
	180	2972	1392	60.6	3.17
	230	3628	1683	65.4	4.26
1830	**130**	2275	1066	61.1	2.39
	180	3390	1588	68.1	3.56
	230	4138	1919	73.4	4.79
2030	**130**	2555	1197	67.8	2.66
	180	3807	1783	75.5	3.96
	230	4648	2156	81.4	5.32

EN442 output at 20°C room temperature.

HEIGHT 740 ▪ OUTPUT TABLES ▪ TECHNICAL INFO

MAXI 2020 FLOOR MODEL, TOP GRILLE (FT) HYBRID

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

		HEATING Comfort				HEATING Boost				COOLING		SOUND PRESSURE		POWER
										Comfort	Boost	Comfort	Boost	
L	Depth	Watts	Watts	Watts	Watts	Watts	Watts	Watts	Watts	Watts	Watts	dB(A)	dB(A)	Watts
mm	mm	75/65	55/45	45/35	35/30	75/65	55/45	45/35	35/30	16/18	16/18			Max
630	**130**	1130	640	404	243	1300	736	465	280	148	176	30.0	40.0	5.1
	180	-	-	-	-	-	-	-	-	-	-	-	-	-
	230	-	-	-	-	-	-	-	-	-	-	-	-	-
830	**130**	1663	942	595	358	1970	1116	705	424	237	285	30.0	41.8	7.9
	180	2080	1178	744	448	2707	1533	969	583	267	358	30.0	42.4	7.2
	230	2697	1567	1011	622	3504	2036	1314	809	292	390	30.0	42.4	7.2
1030	**130**	2190	1240	784	471	2649	1500	948	570	321	394	30.0	43.0	10.3
	180	2705	1532	968	582	3641	2062	1303	784	360	496	30.0	44.1	10.7
	230	3500	2034	1312	808	4705	2734	1764	1086	392	542	30.0	44.1	10.7
1230	**130**	2709	1534	969	583	3332	1887	1192	717	405	504	30.0	44.0	14.0
	180	3238	1834	1159	697	4329	2452	1549	932	455	634	30.0	44.8	12.5
	230	4336	2520	1626	1001	5914	3437	2217	1365	497	692	30.0	44.8	12.5
1430	**130**	3104	1758	1111	668	3832	2170	1371	825	444	560	30.0	44.8	14.8
	180	3878	2196	1388	835	5265	2982	1884	1133	501	703	30.0	45.4	14.3
	230	5026	2921	1884	1160	6813	3960	2554	1572	546	767	30.0	45.4	14.3
1630	**130**	3608	2043	1291	776	4515	2557	1615	972	524	669	30.0	45.5	17.5
	180	4280	2424	1531	921	6204	3514	2220	1335	590	841	30.0	46.4	16.1
	230	5801	3371	2175	1339	8021	4662	3007	1851	643	917	30.0	46.4	16.1
1830	**130**	4143	2346	1482	892	5200	2945	1861	1119	610	778	30.0	46.0	19.2
	180	4644	2630	1662	999	6620	3749	2369	1425	590	841	30.0	46.4	19.6
	230	6367	3700	2387	1469	8587	4991	3219	1982	643	917	30.0	46.4	19.6
2030	**130**	4596	2603	1644	989	5886	3334	2106	1267	683	888	30.0	46.5	22.0
	180	5732	3246	2051	1234	8088	4581	2894	1741	773	1116	30.0	47.1	19.6
	230	7413	4308	2779	1711	10446	6071	3916	2411	844	1217	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

MAXI 2020 FLOOR MODEL, FOOT GRILLE (FF)

MAXF.059 LLL Dep.XXX/FF

		TWIN		WEIGHT	WATER CONTENT
L	Depth	Watts	Watts	kg	l
mm	mm	75/65	55/45		
630	**130**	378	174	16.3	0.80
	180	521	239	19.1	1.19
	230	660	302	21.6	1.60
830	**130**	557	257	21.4	1.06
	180	767	352	25.1	1.58
	230	971	445	28.5	2.13
1030	**130**	735	339	26.6	1.33
	180	1013	466	31.2	1.98
	230	1282	587	35.3	2.66
1230	**130**	913	421	31.8	1.60
	180	1259	579	37.3	2.38
	230	1593	730	42.2	3.19
1430	**130**	1092	504	36.9	1.86
	180	1504	691	43.3	2.77
	230	1904	872	49.0	3.72
1630	**130**	1270	586	42.1	2.13
	180	1750	804	49.4	3.17
	230	2216	1015	55.9	4.26
1830	**130**	1448	668	47.3	2.39
	180	1996	917	55.4	3.56
	230	2527	1158	62.7	4.79
2030	**130**	1627	751	52.4	2.66
	180	2242	1030	61.5	3.96
	230	2838	1300	69.6	5.32

EN442 output at 20°C room temperature.

HEIGHT 590 ▪ OUTPUT TABLES ▪ TECHNICAL INFO

MAXI 2020 FLOOR MODEL, FOOT GRILLE (FF) HYBRID

MAXF.059 LLL Dep.XXX/FF + DBHS.LLL TT/TPT

		HEATING Comfort				HEATING Boost				COOLING		SOUND PRESSURE		POWER
										Comfort	Boost	Comfort	Boost	
L	Depth	Watts	Watts	Watts	Watts	Watts	Watts	Watts	Watts	Watts	Watts	dB(A)	dB(A)	Watts
mm	mm	75/65	55/45	45/35	35/30	75/65	55/45	45/35	35/30	16/18	16/18			Max
630	**130**	1130	640	404	243	1300	736	465	280	Refer to Jaga Technical Department		30.0	40.0	5.1
	180	-	-	-	-	-	-	-	-			-	-	-
	230	-	-	-	-	-	-	-	-			-	-	-
830	**130**	1663	942	595	358	1970	1116	705	424	Refer to Jaga Technical Department		30.0	41.8	7.9
	180	2080	1178	744	448	2707	1533	969	583			30.0	42.4	7.2
	230	2697	1567	1011	622	3504	2036	1314	809			30.0	42.4	7.2
1030	**130**	2190	1240	784	471	2649	1500	948	570	Refer to Jaga Technical Department		30.0	43.0	10.3
	180	2705	1532	968	582	3641	2062	1303	784			30.0	44.1	10.7
	230	3500	2034	1312	808	4705	2734	1764	1086			30.0	44.1	10.7
1230	**130**	2709	1534	969	583	3332	1887	1192	717	Refer to Jaga Technical Department		30.0	44.0	14.0
	180	3238	1834	1159	697	4329	2452	1549	932			30.0	44.8	12.5
	230	4336	2520	1626	1001	5914	3437	2217	1365			30.0	44.8	12.5
1430	**130**	3104	1758	1111	668	3832	2170	1371	825	Refer to Jaga Technical Department		30.0	44.8	14.8
	180	3878	2196	1388	835	5265	2982	1884	1133			30.0	45.4	14.3
	230	5026	2921	1884	1160	6813	3960	2554	1572			30.0	45.4	14.3
1630	**130**	3608	2043	1291	776	4515	2557	1615	972	Refer to Jaga Technical Department		30.0	45.5	17.5
	180	4280	2424	1531	921	6204	3514	2220	1335			30.0	46.4	16.1
	230	5801	3371	2175	1339	8021	4662	3007	1851			30.0	46.4	16.1
1830	**130**	4143	2346	1482	892	5200	2945	1861	1119	Refer to Jaga Technical Department		30.0	46.0	19.2
	180	4644	2630	1662	999	6620	3749	2369	1425			30.0	46.4	19.6
	230	6367	3700	2387	1469	8587	4991	3219	1982			30.0	46.4	19.6
2030	**130**	4596	2603	1644	989	5886	3334	2106	1267	Refer to Jaga Technical Department		30.0	46.5	22.0
	180	5732	3246	2051	1234	8088	4581	2894	1741			30.0	47.1	19.6
	230	7413	4308	2779	1711	10446	6071	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).

MAXI 2020 FLOOR MODEL, FOOT GRILLE (FF)

MAXF.074 LLL Dep.XXX/FF

		TWIN		WEIGHT	WATER CONTENT
L	Depth	Watts	Watts	kg	l
mm	mm	75/65	55/45		
630	**130**	476	222	20.4	0.80
	180	660	307	23.4	1.19
	230	831	385	26.1	1.60
830	**130**	701	327	26.9	1.06
	180	971	451	30.9	1.58
	230	1222	566	34.3	2.13
1030	**130**	926	431	33.4	1.33
	180	1282	596	38.3	1.98
	230	1614	748	42.6	2.66
1230	**130**	1150	536	39.9	1.60
	180	1594	741	45.7	2.38
	230	2006	929	50.9	3.19
1430	**130**	1375	641	46.4	1.86
	180	1905	885	53.2	2.77
	230	2398	1111	59.1	3.72
1630	**130**	1600	746	52.9	2.13
	180	2216	1030	60.6	3.17
	230	2790	1293	67.4	4.26
1830	**130**	1824	850	59.3	2.39
	180	2527	1174	68.1	3.56
	230	3182	1474	75.7	4.79
2030	**130**	2049	955	65.8	2.66
	180	2838	1319	75.5	3.96
	230	3573	1655	84.0	5.32

EN442 output at 20°C room temperature.

MAXI 2020 FLOOR MODEL, FOOT GRILLE (FF) HYBRID

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

		HEATING Comfort				HEATING Boost				COOLING		SOUND PRESSURE		POWER
										Comfort	Boost	Comfort	Boost	
L	Depth	Watts	Watts	Watts	Watts	Watts	Watts	Watts	Watts	Watts	Watts	dB(A)	dB(A)	Watts
mm	mm	75/65	55/45	45/35	35/30	75/65	55/45	45/35	35/30	16/18	16/18			Max
630	**130**	1130	640	404	243	1300	736	465	280	Refer to Jaga Technical Department		30.0	40.0	5.1
	180	-	-	-	-	-	-	-	-			-	-	-
	230	-	-	-	-	-	-	-	-			-	-	-
830	**130**	1663	942	595	358	1970	1116	705	424	Refer to Jaga Technical Department		30.0	41.8	7.9
	180	2080	1178	744	448	2707	1533	969	583			30.0	42.4	7.2
	230	2697	1567	1011	622	3504	2036	1314	809			30.0	42.4	7.2
1030	**130**	2190	1240	784	471	2649	1500	948	570	Refer to Jaga Technical Department		30.0	43.0	10.3
	180	2705	1532	968	582	3641	2062	1303	784			30.0	44.1	10.7
	230	3500	2034	1312	808	4705	2734	1764	1086			30.0	44.1	10.7
1230	**130**	2709	1534	969	583	3332	1887	1192	717	Refer to Jaga Technical Department		30.0	44.0	14.0
	180	3238	1834	1159	697	4329	2452	1549	932			30.0	44.8	12.5
	230	4336	2520	1626	1001	5914	3437	2217	1365			30.0	44.8	12.5
1430	**130**	3104	1758	1111	668	3832	2170	1371	825	Refer to Jaga Technical Department		30.0	44.8	14.8
	180	3878	2196	1388	835	5265	2982	1884	1133			30.0	45.4	14.3
	230	5026	2921	1884	1160	6813	3960	2554	1572			30.0	45.4	14.3
1630	**130**	3608	2043	1291	776	4515	2557	1615	972	Refer to Jaga Technical Department		30.0	45.5	17.5
	180	4280	2424	1531	921	6204	3514	2220	1335			30.0	46.4	16.1
	230	5801	3371	2175	1339	8021	4662	3007	1851			30.0	46.4	16.1
1830	**130**	4143	2346	1482	892	5200	2945	1861	1119	Refer to Jaga Technical Department		30.0	46.0	19.2
	180	4644	2630	1662	999	6620	3749	2369	1425			30.0	46.4	19.6
	230	6367	3700	2387	1469	8587	4991	3219	1982			30.0	46.4	19.6
2030	**130**	4596	2603	1644	989	5886	3334	2106	1267	Refer to Jaga Technical Department		30.0	46.5	22.0
	180	5732	3246	2051	1234	8088	4581	2894	1741			30.0	47.1	19.6
	230	7413	4308	2779	1711	10446	6071	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).

OXYGEN

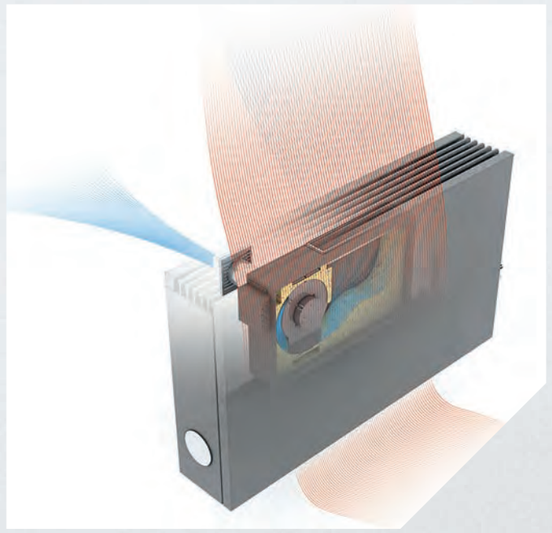
Demand controlled heating and mechanical ventilation

Jaga Oxygen works alongside our Low-H_2O 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?

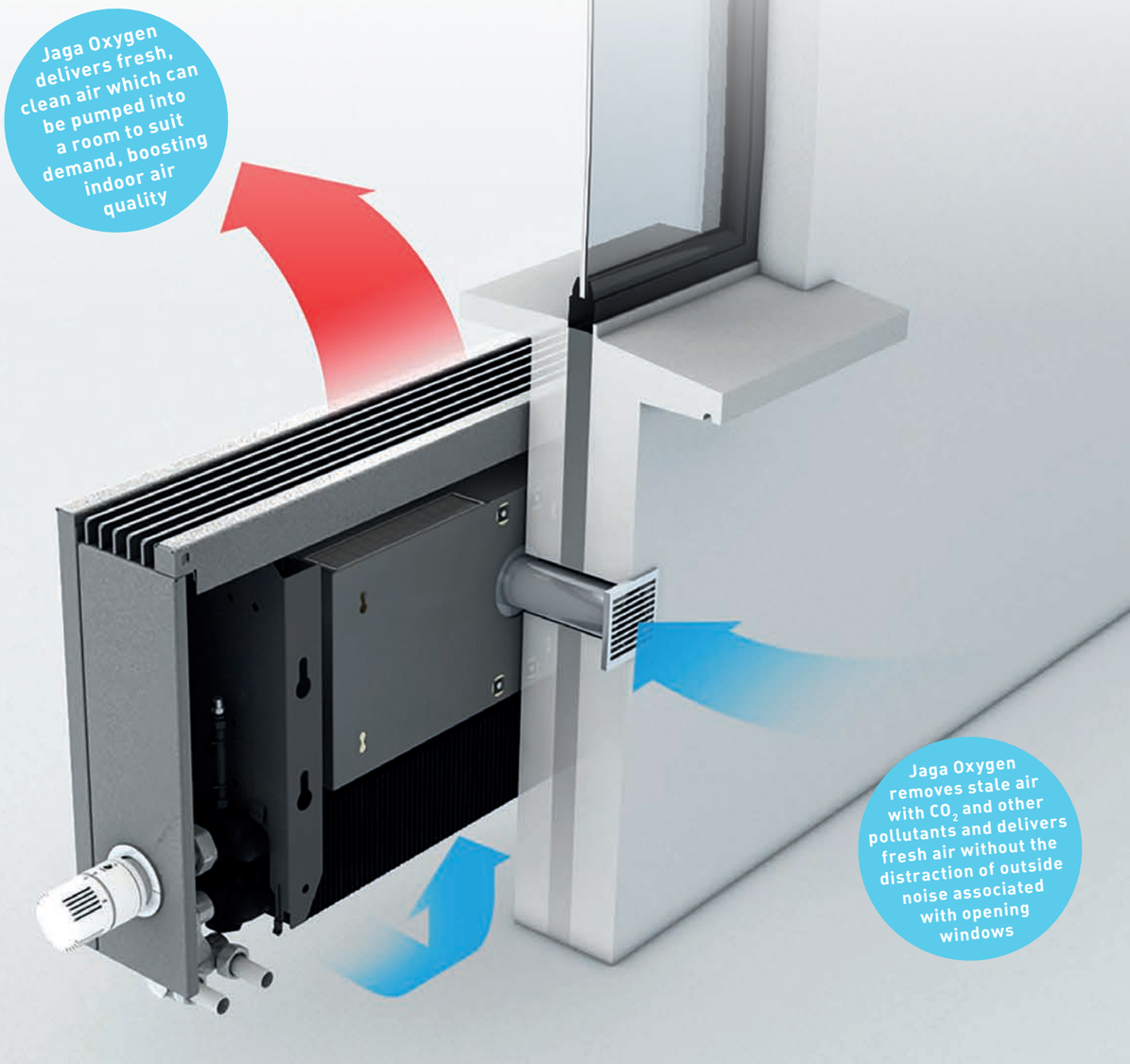
Demand Controlled Mechanical Ventilation only vents fresh filtered air when required, meaning that it is the most energy efficient method of ventilation whilst also eliminating the drawbacks of draughts and noise pollution.

CO_2 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:

- CO_2 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.

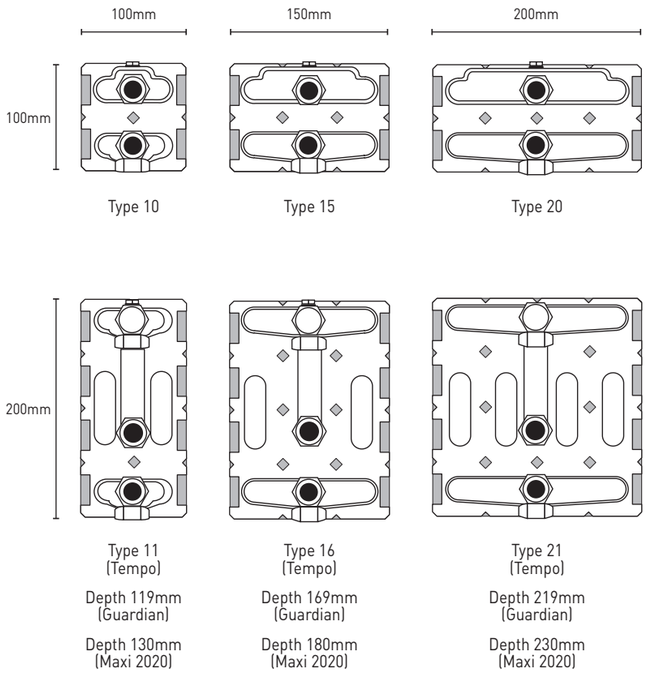
LST HYBRID ▪ CORRECTION FACTORS

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.

LST ▪ HEAT EXCHANGERS OVERVIEW & PRESSURE DROP



TO CALCULATE FLOW RATE:

$$\frac{\text{Corrected output [Watts] x 3600}}{\text{Specific heat capacity [J/kg.°C] x [flow temp – return temp]}}$$

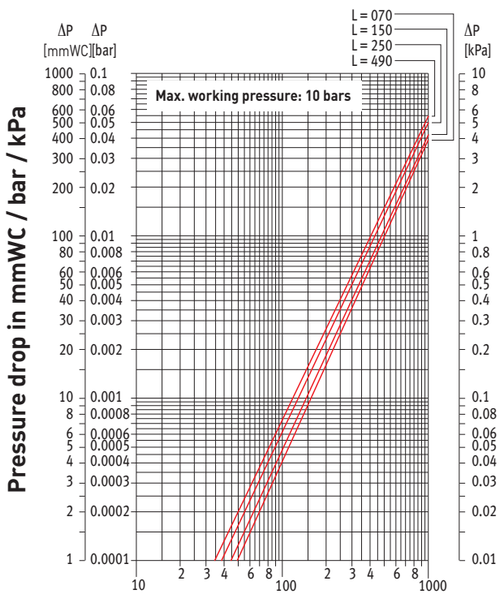
For central heating hot water systems the specific heat capacity of 4187 can be used:

e.g. for a radiator with a 1000 Watt output with a flow temp of 70°C and a return temp of 50°C.

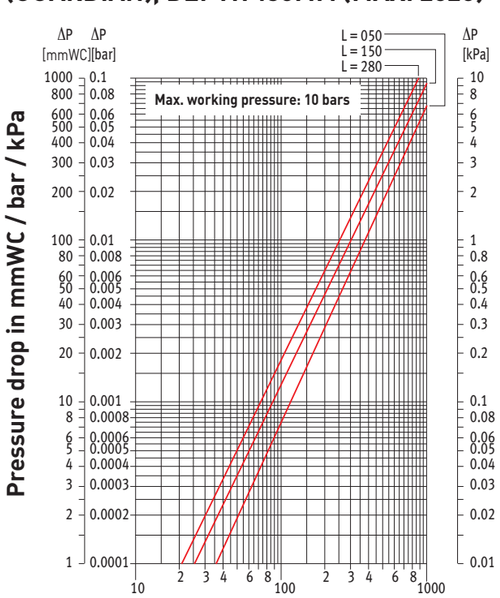
$$\text{Mass flow} = \frac{1000 \times 3600}{4187 \times [70-50]}$$

= 42.99 kg/hr

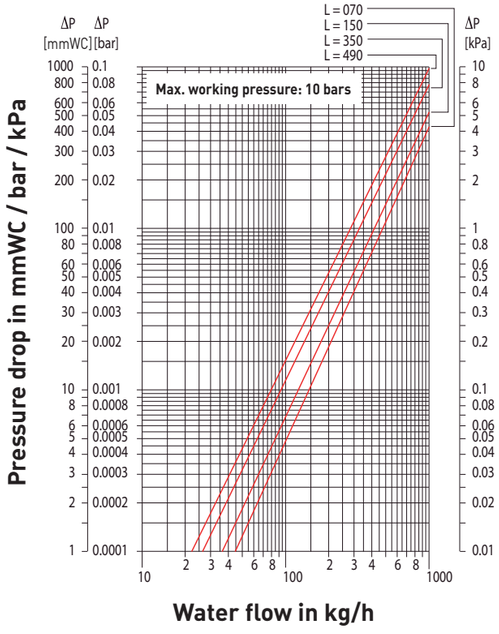
PRESSURE DROP - TYPE 20 (TEMPO ONLY)



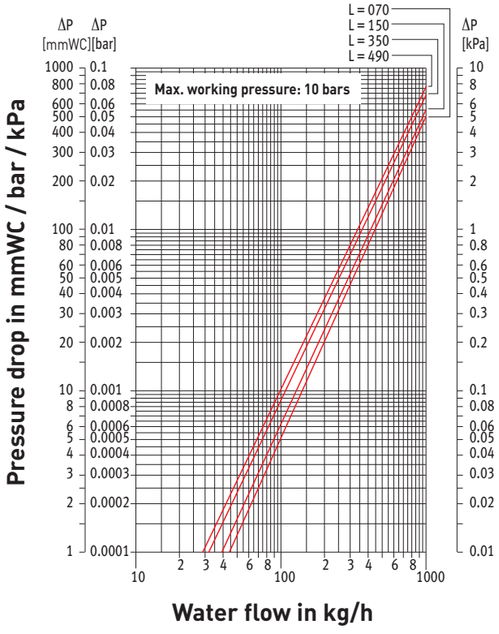
PRESSURE DROP - TYPE 11 (TEMPO), DEPTH 119MM (GUARDIAN), DEPTH 130MM (MAXI 2020)



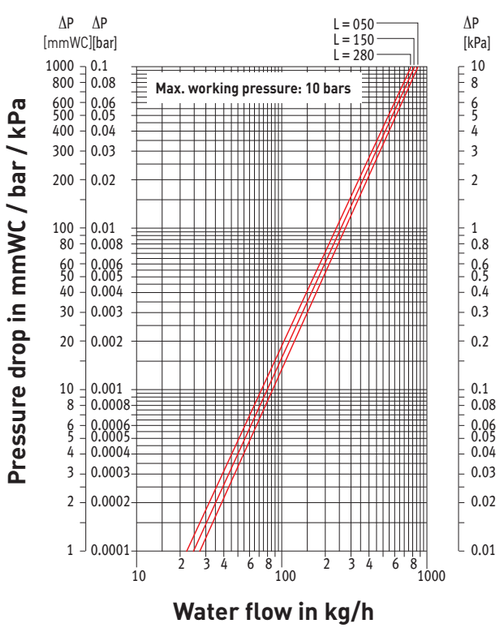
PRESSURE DROP - TYPE 10 (TEMPO ONLY)



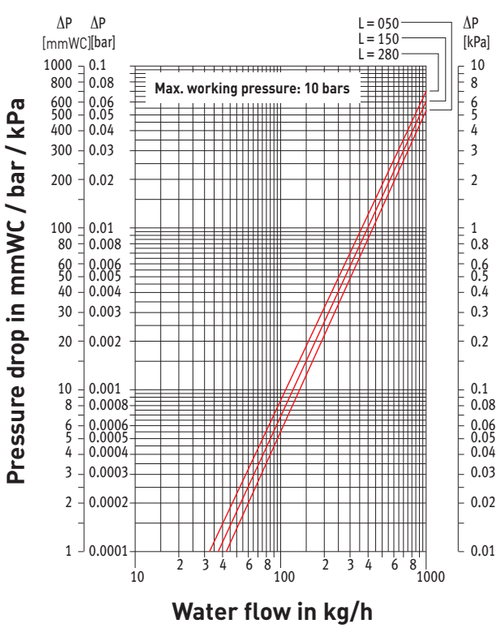
PRESSURE DROP - TYPE 15 (TEMPO ONLY)



PRESSURE DROP - TYPE 16 (TEMPO), DEPTH 169MM (GUARDIAN), DEPTH 180MM (MAXI 2020)



PRESSURE DROP - TYPE 21 (TEMPO), DEPTH 219MM (GUARDIAN), DEPTH 230MM (MAXI 2020)



VALVES

OUR SPECIALLY SHORTENED VALVES CAN BE CONCEALED WITHIN
THE STANDARD CASING. OTHER VALVES MAY BE PARTIALLY VISIBLE.

SLEEVE COUPLING M24

Copper Tube

CODE	Tube Ø
5094.110	10/1
5094.115	15/1

Steel Tube for C.H

CODE	Tube Ø
5094.501	1/2"

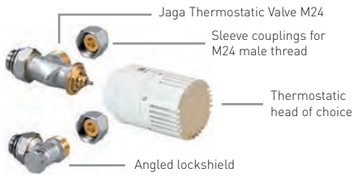
Please note other couplings are available on request.

JAGA PRO THERMOSTATIC VALVE (for Tempo & Guardian WT only)

- With pre-setting
- For connection to the floor
- For two pipe
- Complies to European standard EN 215.1

CODE	Description
5094.4414	Jaga Pro Thermostatic -Valve (M24)
5090.1125	TRV Head (white)

JAGA THERMOSTATIC VALVE – WALL (suitable for all LST radiators)



Consists of the following :
- 5090.407 type 06 angled TRV
- 5090.111 type 06 angled lockshield valve
- 5090.1125 white TRV head
- Adaptors to suit 15mm copper pipe as standard

To suit pipework to wall
(Same end 20/70 connections).

CODE	Description
5090.407	Jaga type 06 TRV (M24)
5090.111	Angled T06 Lockshield (M24)
5090.1125	TRV Head (white)

SLEEVE COUPLING 1/2"

Copper Tube

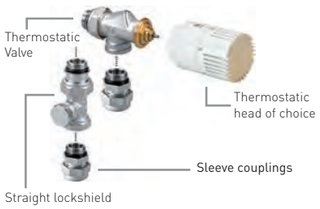
CODE	Tube Ø
5098.110	10/1
5098.115	15/1

Steel Tube for C.H

CODE	Tube Ø
5094.502	1/2"

Please note other couplings are available on request.

JAGA THERMOSTATIC VALVE – FLOOR (suitable for all LST radiators)



Consists of the following :
- 5090.405 angled TRV
- 5090.109 straight lockshield valve
- 5090.1125 white TRV head
- Adaptors to suit 15mm copper pipe as standard

To suit pipework from the floor
(Same end 20/70 connections).

CODE	Description
5090.405	Jaga angled TRV (1/2")
5090.109	Straight Lockshield (1/2")
5090.1125	TRV Head (white)

HIGH LEVEL JAGA TOP VALVE (suitable for all LST radiators)

Consists of the following :
- 5090.13001 High Level TRV set (including valve, capillary & head)
- 5090.1125 white TRV head
- Adaptors to suit 15mm copper pipe as standard
- 5090.109 straight lockshield valve
  OR
  5090.110 angled lockshield valve

To suit pipework from the floor or wall (same end 30/60 connections).

CODE	Description
5090.13001	Jaga High Level TRV set (1/2")
5090.110	Angled Lockshield (1/2") (Wall)
5090.109	Straight Lockshield (1/2") (Floor)

MORE JAGA VALVE CONFIGURATIONS ARE AVAILABLE. PLEASE CONTACT US FOR MORE INFORMATION.

ACCESSORIES, TRV HEADS AND GRILLES

ARTHRITIC AID

CODE
5090.ARTH

Only available for us with 5090.1125 TRV Head (white)

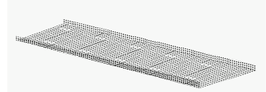
TRV HEADS

CODE	CODE	CODE	CODE	CODE
5090.1125	5090.1150	5090.1151	5090.1152	5090.1161

CODE	Description
5090.1125	White (Heating)
5090.1150	White (Heating)
5090.1151	Chrome (Heating)
5090.1152	Silver (Heating)
5090.1161	Heimeier Thermostatic Head HC (Heating + Cooling)

PENCIL PROOF GRILLE (TEMPO & GUARDIAN)

Same colour as casing.

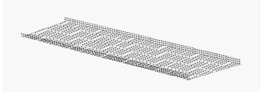


CODE	H	L	D
5606	000	064*	119*

** to suit casing length, depth (Guardian) or type (Tempo)*

PENCIL PROOF GRILLE WT/FT ONLY (MAXI 2020)

Same colour as casing.

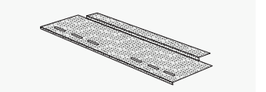


CODE	H	L	D	Colour
5612	000	083*	230*	233

** to suit casing length and depth*

BASE GRILLE WT/WF ONLY (MAXI 2020)

Same colour as casing.



CODE	H	L	D	Colour
5613	000	083*	130*	233

**to suit casing length and depth*

STANDARD COLOUR(S) - BY RADIATOR

Jaga colours are divided into three colour groups:

“Subtle & discreet” includes a selection of neutral colours that discreetly blend our units into the interior.

“Colours of nature” is a collection of 16 colours containing bright, variegated, greyish and pastel shades. From soft natural colours to dark chic. For the bold.

“Precious metals” includes metal lookalikes, in harmony with trends in the world of taps, lighting and bathroom accessories.

Jaga has environmentally-friendly electrostatic powder coating lines. Excess powder is recuperated and no solvents are used during this process.

After having been thoroughly pretreated, the units are powder coated and baked. This ensures that the unit is both UV and scratch resistant.

What does the first digit of the colour code stand for?

Code 1xx *Soft touch*: *finely-textured matte look, gloss degree < 10%*

Code 2xx *Glossy*: *smooth gloss finish, gloss degree +/- 70%*

Code 3xx *Satin*: *smooth satin look, gloss degree +/- 30%*

Code 0xx *Metal lookalikes*: *the finish and the degree of gloss simulate the imitated material.*

	233 Traffic white RAL 9016	**101** Pure white RAL 9010	**001** Sandblast grey
Tempo		•	
Tempo Freestanding		•	
Tempo Continuous		•	
Tempo Hybrid		•	
Guardian	•		
Guardian Hybrid	•		
Maxi 2020	•		•
Maxi 2020 Continuous	•		•
Maxi 2020 Hybrid	•		•

SPECIAL COLOURS - MAXI 2020 ONLY

Subtle & discreet

201 / 301 Pure white RAL 9010

202 / 302 Off-white RAL 9001

203 / 303 Light grey RAL 7035

246 / 346 Squirrel grey RAL 7000

209 / 309 Iron grey RAL 7011

231 / 331 Anthracite grey RAL 7016

204 / 304 Jet black RAL 9005

Colours of nature

157 Sandstone NCS S 2005-Y20R

158 Siena ocher RDS 050 70 30

159 Honey yellow RDS 060 60 60

160 Chocolate

154 Soft grey-pink NCS S 1002-Y50R

155 Millennium pink RDS 350 85 10

111 Flaming red RAL 3000

156 Purple red RAL 3004

150 Soft grey-blue NCS S 1010-R80B

151 Pigeon blue RAL 5014

152 Gentian blue RAL 5010

153 Midnight blue NCS S 8010-R90B

147 Soft green-beige

148 Pale green RAL 6021

149 Emerald green RAL 6001

113 English green RAL 6009

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. The rendering of “055 Corten steel look” gives an impression of the end result.
Due to the uniqueness of the surface, the lacquer, and the applied techniques, each device will be unique.

SPECIAL COLOURS - MAXI 2020 ONLY

Precious metals

054 RAL 9006
White aluminium coloured

057
Titanium look

058
Rose gold look

059
Gold look

060
Copper look

061
Gunmetal grey look

062
Stainless steel look

063
Silver look

055
Corten steel look

LST GUARANTEE & DELIVERY

GUARANTEE 30 YEAR HEAT EXCHANGER

Duration of the Guarantee

Type equipment	Low-H_2O heat exchanger	Electric spare parts	Other spare parts
Tempo/Guardian/Maxi 2020	30-years	---	10 years
Valves for Low-H_2O heat exchangers	---	---	3 years
DBH components	---	2 years	---

Full Guarantee and Conditions of Sales available on request.

Delivery

Our Guardian LST and Maxi 2020 LST complete products are delivered in a strong cardboard packaging.

Standard delivery includes...

Tempo LST:

- Low-H_2O heat exchanger with wall brackets, modular easy to handle casing with cutout for valves, fixing kit, extended air vent 1/8" and drain plug 1/2".
- Cover plate in white effect for the side panel at the opposite end from the valve.

Guardian LST:

- Low-H_2O heat exchanger with wall brackets, one piece casing with multiple cutouts for valves, fixing kit, extended air vent 1/8" and drain plug 1/2".
- Cover plate in white effect for the side panel at the opposite end from the valve.

Maxi 2020 LST:

- Low-H_2O heat exchanger with wall brackets, fixing kit, extended air vent 1/8" and drain plug 1/2".
- Pre assembled casing.

Delivery with (optional) DBH:

- Correct length DBH unit according to r-operation, control and power supply 12VDC.
- Mounting instructions included.

NOTES

NOTES

jaga

CLIMATE DESIGNERS

+44 1531 631 533
jaga@jaga.co.uk
www.jaga.co.uk

JAGA UK
Jaga House, Orchard Business Park,
Bromyard Road, Ledbury,
Herefordshire HR8 1LG

LST0423 - JAGA UK