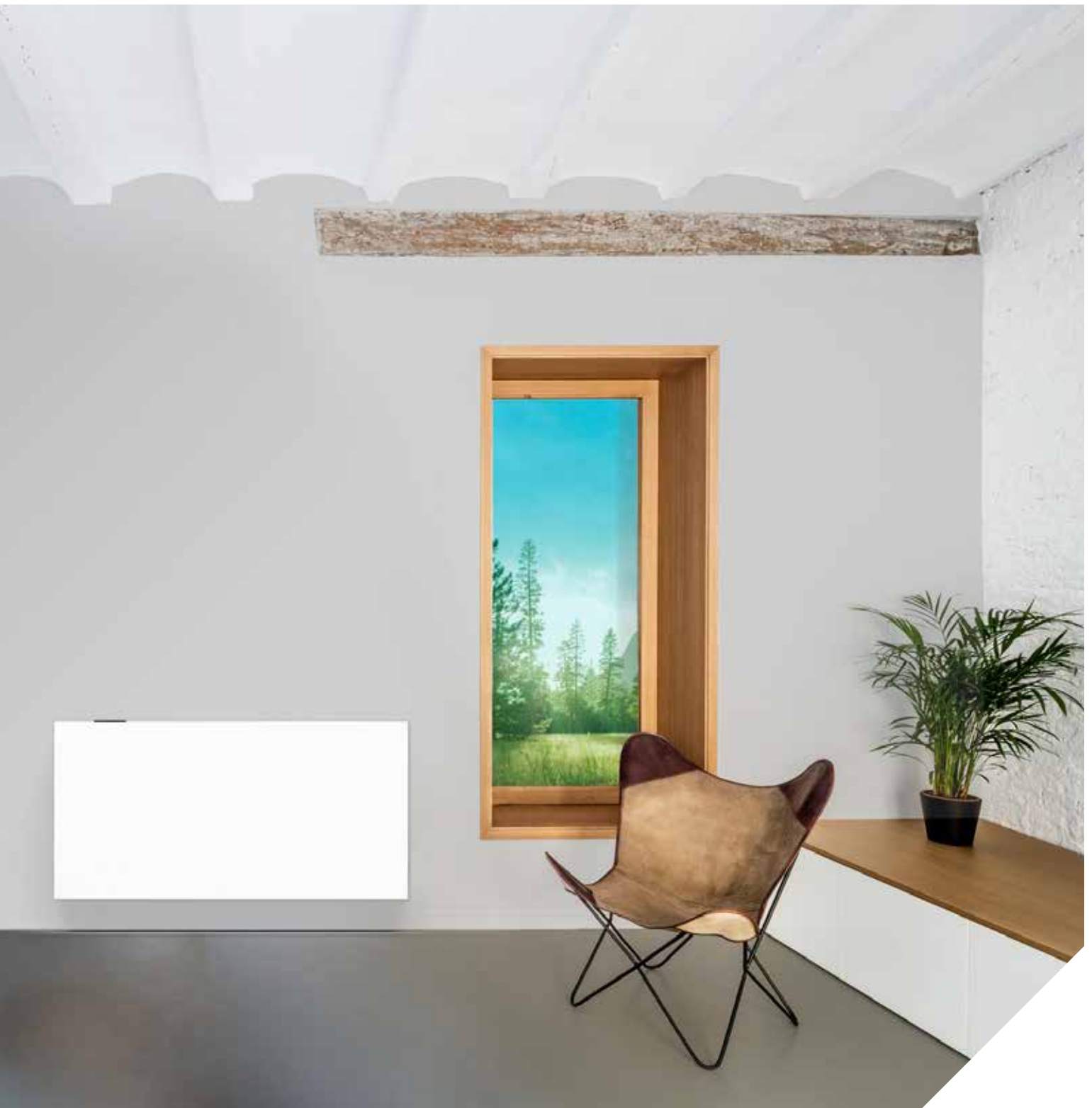


## STRADA AND STRADA HYBRID

LOW WATER CONTENT RADIATOR FOR HEATING AND COOLING





# jaga

CLIMATE DESIGNERS

**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***

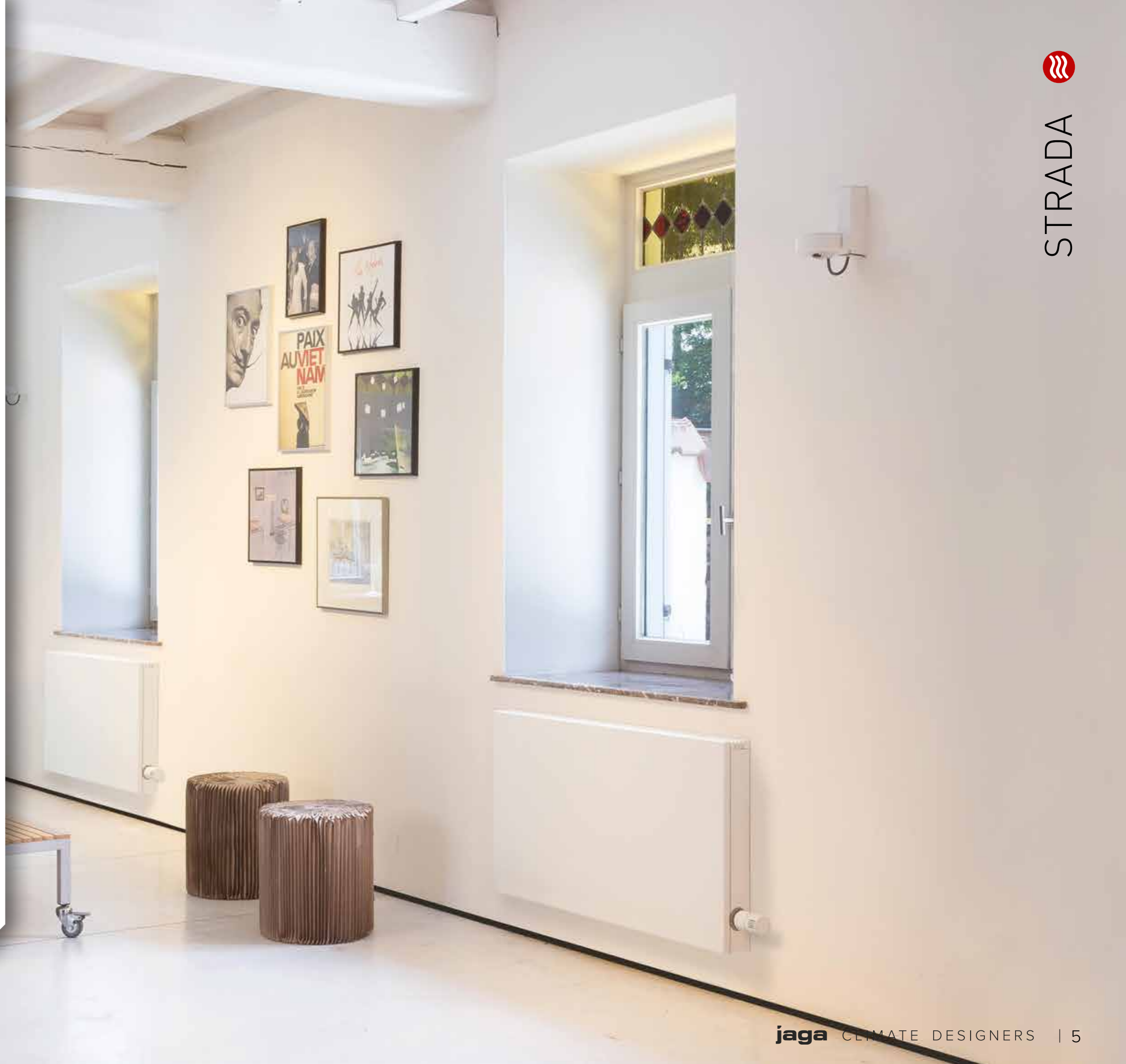
# STRADA

Warmth and efficiency  
with cutting-edge design

- Slimline, contemporary design radiator that is discreet and enhances any room.
- The sustainable choice, less material, fast to respond, highly efficient and recyclable.
- Compact size and high power output using low water content (Low-H<sub>2</sub>O) heat exchanger technology.
- Ideally suited to renewable energy systems with low flow water temperature.
- Safe-to-touch casing in standard white and grey colours, with other colour options and finishes also available.
- Can offer cooling via Jaga's Dynamic Boost Hybrid (DBH) technology and ventilation via Jaga's oXygen system.



design award  
winner



STRADA

# LOW-H<sub>2</sub>O: LIGHTER, FASTER, MORE EFFICIENT

## THE LOW WATER CONTENT RADIATOR

Jaga's Low-H<sub>2</sub>O 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<sub>2</sub>O radiators react faster to the occupants' needs as well as changes to ambient temperature. This ensures better comfort with less energy consumption, no wasteful over-heating and reduced demand on the heating system itself. They also have no heavy steel panels that require pre-heating, are far lighter to install and remain much lighter when fully filled during usage.

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

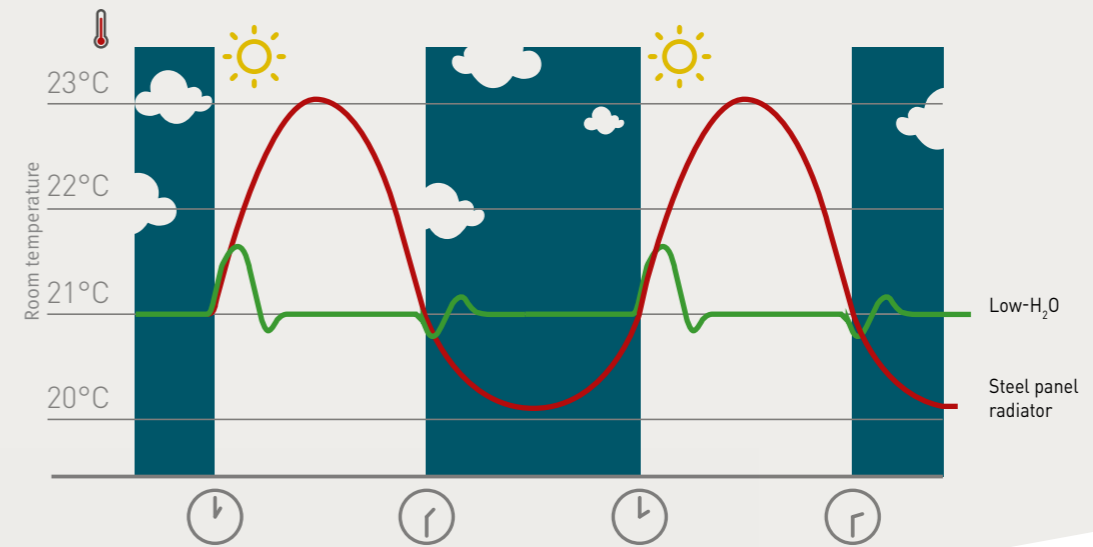
Research by Dutch certification and testing body, KIWA, shows that Low-H<sub>2</sub>O radiators consume between 9 and 16%\* less energy than a system with steel panel radiators. They achieve the desired temperature faster with less heat wasted through unnecessary over-heating, common in heavier radiators.



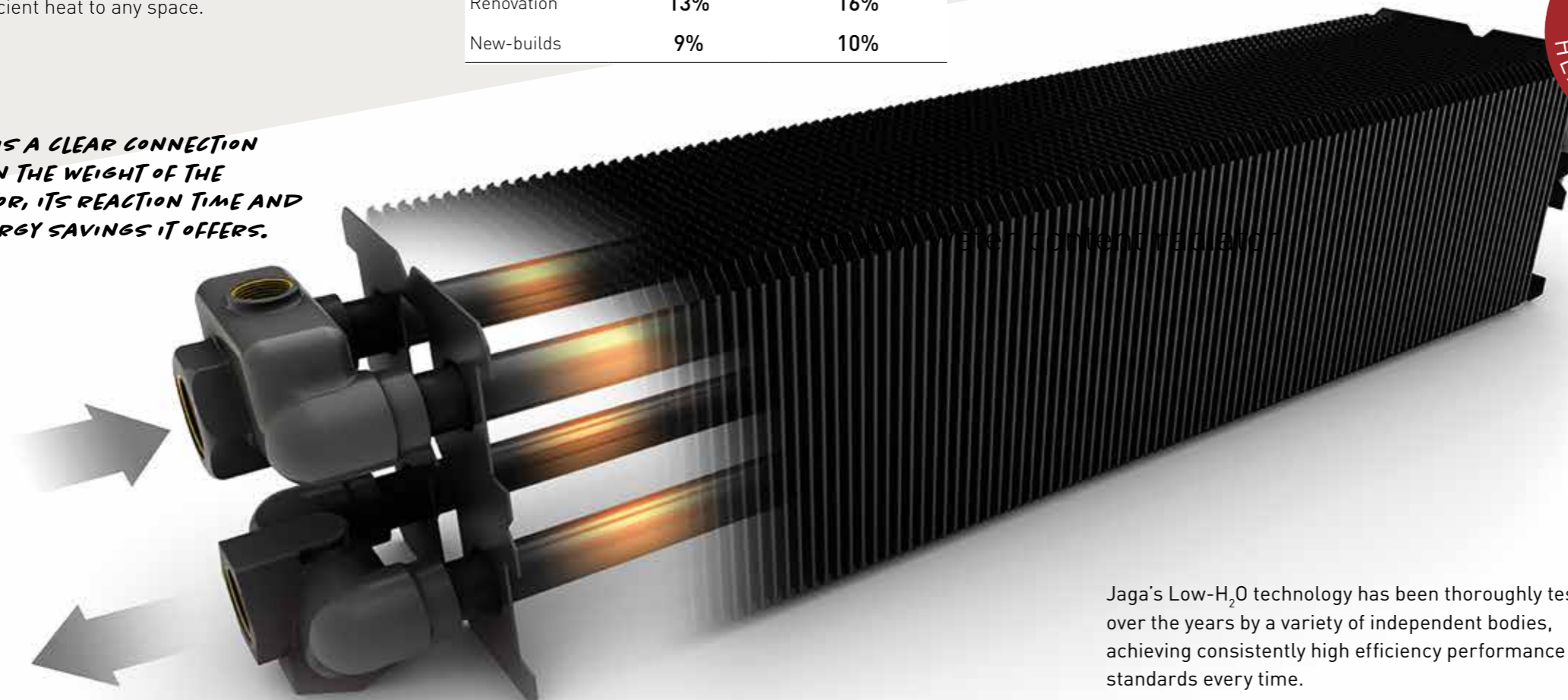
### Comparison Low-H<sub>2</sub>O/panel radiators

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

COMPARISON OF RESPONSE TIME TO TEMPERATURE CHANGES



**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<sub>2</sub>O technology has been thoroughly tested over the years by a variety of independent bodies, achieving consistently high efficiency performance standards every time.

Low-H<sub>2</sub>O radiators are more efficient at all water temperatures, making them the perfect partner for renewable systems and boilers alike.

In all conditions Low-H<sub>2</sub>O radiators achieve the maximum scores set by ISSO. Without a maximum score\*, the Low-H<sub>2</sub>O exchanger would achieve even higher. KIWA found Low-H<sub>2</sub>O to be at least 5% more economical than underfloor heating.

\*The minimum required score is 1.00 (100%) for Low-H<sub>2</sub>O 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.

## STRADA HYBRID

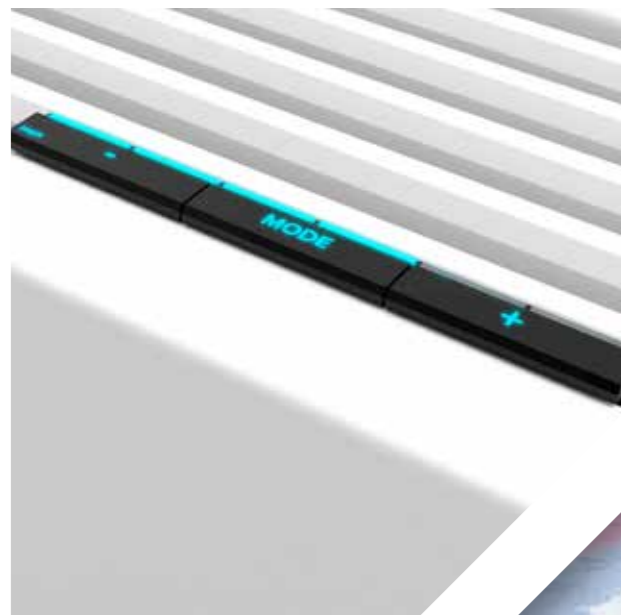
The only radiator that provides heating, cooling and ventilation

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 Strada, 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.



STRADA HYBRID

# 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<sub>2</sub>O radiators do not need to increase in size when working with lower water temperatures.

With 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<sub>2</sub>O heating units.



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



*Jaga Strada 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*



## 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<sub>2</sub>O 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 over-heating.

## 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<sub>2</sub>O 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<sub>2</sub>O RADIATORS REDUCE THE CO<sub>2</sub> EMISSIONS OF AN AVERAGE HOUSE BY ABOUT 1000 KG."*



## JAGA LOW-H<sub>2</sub>O RADIATORS REDUCE WASTE

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

	Underfloor Heating	Cast Iron Radiator	Steel Panel Radiator	Jaga Low-H <sub>2</sub> O Radiator
<b>LCA Score</b>	248700	248744	185853	66517
<b>Total Weight incl. Water (kg)</b>	6252	360	216.7	48.8

### What is an LCA score?

LCA or 'Life Cycle Assessment' is a system designed to compare products and their overall impact on the environment. This looks at all processes from design, materials sourced, manufacturing, 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 Ecolizer 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<sub>2</sub>O radiators consistently score significantly better than other radiators or heating systems.

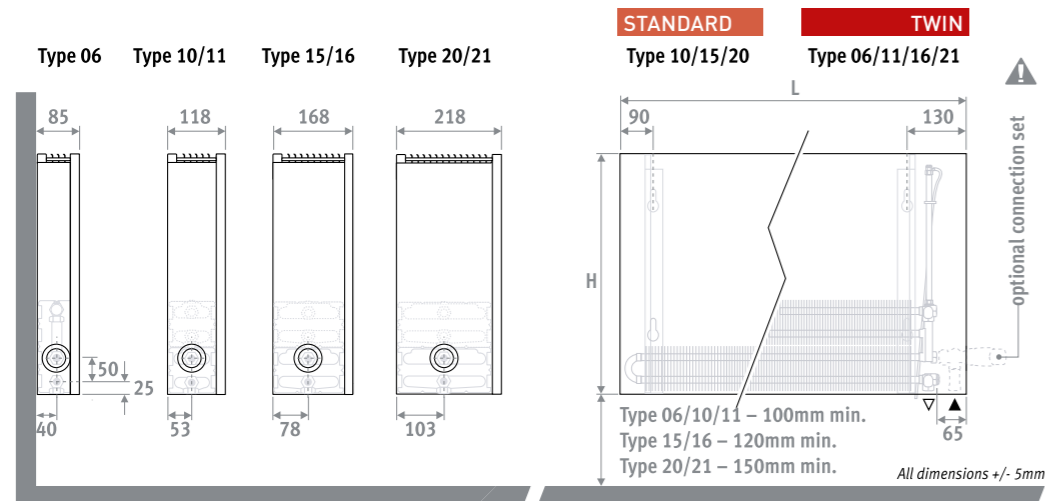
*BEST LCA SCORE*



TECHNICAL INFORMATION

# STRADA - DIMENSIONS

in mm



## DELIVERY

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

Package includes:

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

## COLOURS

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

## CONNECTION

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

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

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

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

Optional remote controlled valve: add to the code of the radiator /00.

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



## ORDERING CODE

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

## TOWEL RAIL

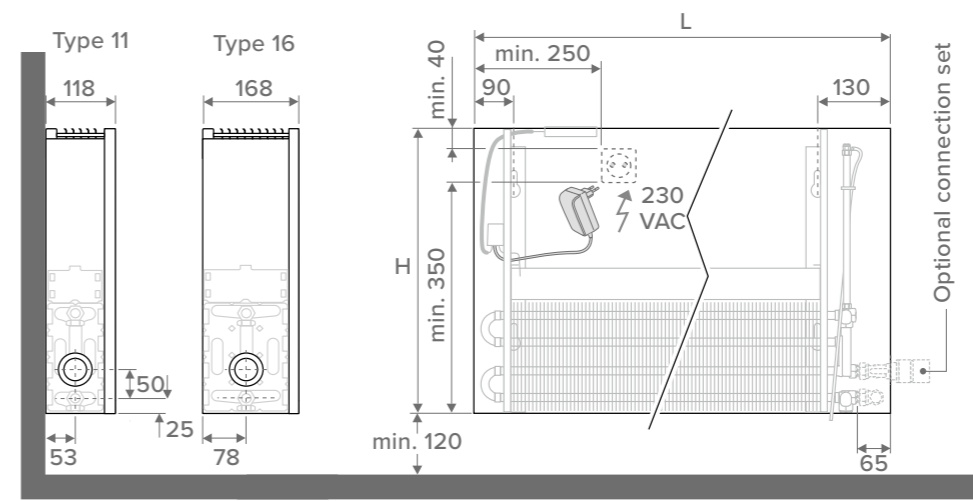
in chrome-plated aluminium



CODE	L
5501.001	560
5501.002	660

# STRADA HYBRID - DIMENSIONS

in mm



## DELIVERY

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

Please contact our customer service team to discuss your requirements.

Package includes:

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

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

## COLOURS

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

## ELECTRICAL CONNECTION

The DBH system requires an electrical outlet near the heating unit. If it has a height of 500mm, 650mm and 950mm an electrical outlet or power cable can be installed in the casing. If the height is 300mm, only the power cable can be installed inside the casing. Connection to an external electrical outlet is always possible. Do not connect the electrical and hydraulic connection to the same side of the coil.

## HYDRAULIC CONNECTION

### Heating

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

### Heating and cooling

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

## 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, Strada 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	unit type	control strategy
DBHS . 060	10	/	TPT

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

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

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

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





# HEIGHT 200 - OUTPUT TABLES STRADA

STRW.020 LLL TT.XXX

L mm	SINGLE		WEIGHT	WATER CONTENT	TWIN		WEIGHT	WATER CONTENT		
	Type	Watts 75/65	Watts 55/45	kg	l	Type	Watts 75/65	Watts 55/45	kg	l
500	-	-	-	-	-	06	269	131	3.4	0.26
	10	328	159	3.8	0.33	11	-	-	-	-
	15	545	265	4.7	0.49	16	-	-	-	-
	20	766	373	5.7	0.66	21	-	-	-	-
600	-	-	-	-	-	06	323	157	4.0	0.31
	10	393	191	4.5	0.39	11	-	-	-	-
	15	654	319	5.6	0.59	16	-	-	-	-
	20	919	448	6.8	0.79	21	-	-	-	-
700	-	-	-	-	-	06	377	183	4.7	0.36
	10	459	223	5.3	0.46	11	-	-	-	-
	15	763	372	6.6	0.69	16	-	-	-	-
	20	1072	522	8.0	0.92	21	-	-	-	-
800	-	-	-	-	-	06	430	209	5.4	0.41
	10	524	255	6.0	0.52	11	-	-	-	-
	15	872	425	7.5	0.78	16	-	-	-	-
	20	1226	597	9.1	1.06	21	-	-	-	-
900	-	-	-	-	-	06	484	236	6.0	0.46
	10	590	287	6.8	0.59	11	-	-	-	-
	15	981	478	8.5	0.88	16	-	-	-	-
	20	1379	672	10.3	1.19	21	-	-	-	-
1000	-	-	-	-	-	06	538	262	6.7	0.51
	10	655	318	7.5	0.65	11	-	-	-	-
	15	1090	531	9.4	0.98	16	-	-	-	-
	20	1532	746	11.4	1.32	21	-	-	-	-
1100	-	-	-	-	-	06	592	288	7.4	0.56
	10	721	350	8.3	0.72	11	-	-	-	-
	15	1199	584	10.3	1.08	16	-	-	-	-
	20	1685	821	12.5	1.45	21	-	-	-	-
1200	-	-	-	-	-	06	646	314	8.0	0.61
	10	786	382	9.0	0.78	11	-	-	-	-
	15	1308	637	11.3	1.18	16	-	-	-	-
	20	1838	895	13.7	1.58	21	-	-	-	-
1400	-	-	-	-	-	06	753	366	9.4	0.71
	10	917	446	10.5	0.91	11	-	-	-	-
	15	1526	743	13.2	1.37	16	-	-	-	-
	20	2145	1045	16.0	1.85	21	-	-	-	-
1600	-	-	-	-	-	06	861	419	10.7	0.82
	10	1048	509	12.0	1.04	11	-	-	-	-
	15	1744	850	15.0	1.57	16	-	-	-	-
	20	2451	1194	18.2	2.11	21	-	-	-	-
1800	-	-	-	-	-	06	968	471	12.1	0.92
	10	1179	573	13.5	1.17	11	-	-	-	-
	15	1962	956	16.9	1.76	16	-	-	-	-
	20	2758	1343	20.5	2.38	21	-	-	-	-
2000	-	-	-	-	-	06	1076	524	13.4	1.02
	10	1310	637	15.0	1.30	11	-	-	-	-
	15	2180	1062	18.8	1.96	16	-	-	-	-
	20	3064	1493	22.8	2.64	21	-	-	-	-
2400	-	-	-	-	-	06	1291	628	16.1	1.22
	10	1572	764	18.0	1.56	11	-	-	-	-
	15	2616	1274	22.6	2.35	16	-	-	-	-
	20	3677	1791	27.4	3.17	21	-	-	-	-
2800	-	-	-	-	-	06	1506	733	18.8	1.43
	10	1834	891	21.0	1.82	11	-	-	-	-
	15	3052	1487	26.3	2.74	16	-	-	-	-
	20	4290	2090	31.9	3.70	21	-	-	-	-

EN442 output at 20°C room temperature.







# HEIGHT 950 - OUTPUT TABLES - TECHNICAL INFO

## STRADA

STRW.095 LLL TT.XXX

L mm	SINGLE		WEIGHT	WATER CONTENT	TWIN		WEIGHT	WATER CONTENT		
	Type	Watts 75/65	Watts 55/45	kg	l	Type	Watts 75/65	Watts 55/45	kg	l
500	-	-	-	-	-	6	-	-	-	-
	10	-	-	-	-	11	-	-	-	-
	15	-	-	-	-	16	-	-	-	-
	20	-	-	-	-	21	-	-	-	-
600	-	-	-	-	-	6	736	378	10.5	0.38
	10	836	421	11.3	0.39	11	1078	518	12.2	0.80
	15	1288	656	13.1	0.59	16	1606	753	14.5	1.19
	20	1795	915	14.9	0.79	21	2352	1081	16.5	1.60
700	-	-	-	-	-	6	858	440	12.3	0.44
	10	975	491	13.2	0.46	11	1257	604	14.3	0.93
	15	1502	765	15.3	0.69	16	1874	879	16.9	1.39
	20	2094	1067	17.4	0.92	21	2744	1261	19.3	1.86
800	-	-	-	-	-	6	981	503	14.0	0.50
	10	1114	561	15.1	0.52	11	1437	691	16.3	1.06
	15	1717	875	17.4	0.78	16	2142	1005	19.3	1.58
	20	2394	1220	19.8	1.06	21	3136	1441	22.0	2.13
900	-	-	-	-	-	6	1103	566	15.8	0.57
	10	1254	631	17.0	0.59	11	1616	777	18.4	1.20
	15	1931	984	19.6	0.88	16	2409	1130	21.7	1.78
	20	2693	1372	22.3	1.19	21	3528	1621	24.8	2.39
1000	-	-	-	-	-	6	1226	629	17.5	0.63
	10	1393	701	18.9	0.65	11	1796	863	20.4	1.33
	15	2146	1093	21.8	0.98	16	2677	1256	24.1	1.98
	20	2992	1524	24.8	1.32	21	3920	1801	27.5	2.66
1100	-	-	-	-	-	6	1349	692	19.3	0.69
	10	1532	771	20.8	0.72	11	1976	950	22.4	1.46
	15	2361	1203	24.0	1.08	16	2945	1381	26.5	2.18
	20	3291	1677	27.3	1.45	21	4312	1982	30.3	2.93
1200	-	-	-	-	-	6	1471	754	21.0	0.76
	10	1672	842	22.7	0.78	11	2155	1036	24.5	1.60
	15	2575	1312	26.2	1.18	16	3212	1507	28.9	2.38
	20	3590	1829	29.8	1.58	21	4704	2162	33.0	3.19
1400	-	-	-	-	-	6	1716	880	24.5	0.88
	10	1950	982	26.5	0.91	11	2514	1208	28.6	1.86
	15	3004	1531	30.5	1.37	16	3748	1758	33.7	2.77
	20	4189	2134	34.7	1.85	21	5488	2522	38.5	3.72

EN442 output at 20°C room temperature.

# HEIGHT 950 - OUTPUT TABLES - TECHNICAL INFO

## STRADA HYBRID

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

L mm	Type	HEATING Comfort				HEATING Boost				COOLING		SOUND PRESSURE		POWER	
		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) Comfort	dB(A) Boost	Watts Max	
500	06	Refer to Jaga Technical Dept.													
	11	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	16	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	21	-	-	-	-	-	-	-	-	-	-	-	-	-	-
600	06	Refer to Jaga Technical Dept.													
	11	1223	693	438	263	1447	820	518	311	159	188	30.0	40.0	6.8	
	16	1503	851	538	323	1989	1126	712	428	178	236	30.0	41.1	7.2	
	21	1935	1125	725	447	2561	1488	960	591	195	257	30.0	41.1	7.2	
700	06	Refer to Jaga Technical Dept.													
	11	1498	848	536	322	1791	1014	641	385	194	233	30.0	41.0	7.9	
	16	1747	989	625	376	2313	1310	828	498	183	242	30.0	41.1	7.2	
	21	2123	1234	796	490	2810	1633	1053	648	200	265	30.0	41.1	7.2	
800	06	Refer to Jaga Technical Dept.													
	11	1770	1002	633	381	2136	1210	764	460	229	277	30.0	41.8	9.1	
	16	2188	1239	783	471	2936	1663	1050	632	260	349	30.0	42.4	9.0	
	21	2818	1638	1056	650	3781	2197	1418	873	283	380	30.0	42.4	9.0	
900	06	Refer to Jaga Technical Dept.													
	11	2037	1154	729	438	2480	1405	887	534	264	322	30.0	42.4	10.3	
	16	2503	1418	896	539	3409	1931	1220	734	297	405	30.0	43.3	10.7	
	21	3224	1874	1209	744	4391	2552	1646	1013	324	441	30.0	43.3	10.7	
1000	06	Refer to Jaga Technical Dept.													
	11	2301	1303	823	495	2825	1600	1011	608	298	367	30.0	43.0	12.2	
	16	2817	1595	1008	606	3883	2199	1389	836	334	461	30.0	44.1	10.7	
	21	3627	2108	1360	837	5000	2906	1875	1154	365	503	30.0	44.1	10.7	
1100	06	Refer to Jaga Technical Dept.													
	11	2582	1462	924	556	3169	1795	1134	682	335	411	30.0	43.5	14.0	
	16	3051	1728	1092	657	4207	2383	1505	905	338	467	30.0	44.1	12.5	
	21	3808	2213	1428	879	5249	3051	1968	1211	370	510	30.0	44.1	12.5	
1200	06	Refer to Jaga Technical Dept.													
	11	2822	1598	1010	607	3514	1990	1257	756	367	456	30.0	44.0	14.8	
	16	3472	1966	1242	747	4830	2735	1728	1039	412	574	30.0	44.8	14.3	
	21	4471	2598	1676	1032	6220	3615	2332	1435	449	625	30.0	44.8	14.3	
1400	06	Refer to Jaga Technical Dept.													
	11	3333	1888	1193	717	4203	2380	1504	905	432	546	30.0	44.8	17.5	
	16	4117	2332	1473	886	5777	3272	2067	1243	488	686	30.0	45.4	14.4	
	21	5302	3081	1988	1224	7440	4324	2789	1717	533	748	30.0	45.4	14.4	

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

## GUARANTEE DURATION

Item	Low-H <sub>2</sub> O Heat Exchanger	Electric Spare Parts	Other Spare Parts
Strada	30 years	---	10 years
Valves for Low-H <sub>2</sub> O heat exchangers	---	---	3 years
DBH components	---	2 years	---

Full Guarantee and Conditions of Sale available on request.

## DELIVERY

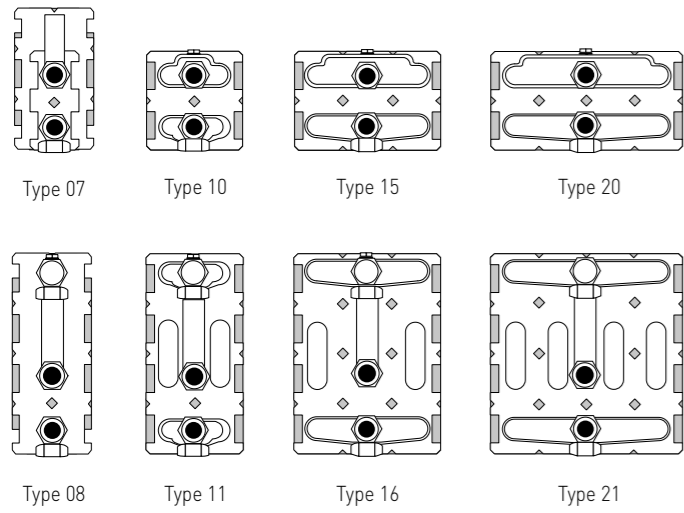
Our radiators are delivered in easy to handle compact packaging.

Standard delivery includes:

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



# STRADA - HEAT EXCHANGERS OVERVIEW & PRESSURE DROP



To optimise the output of the type 06 Strada a Type 07 heat exchanger is fitted in the 200mm high casing, and a Type 08 is fitted in all other Type 06 units.

## TO CALCULATE FLOW RATE:

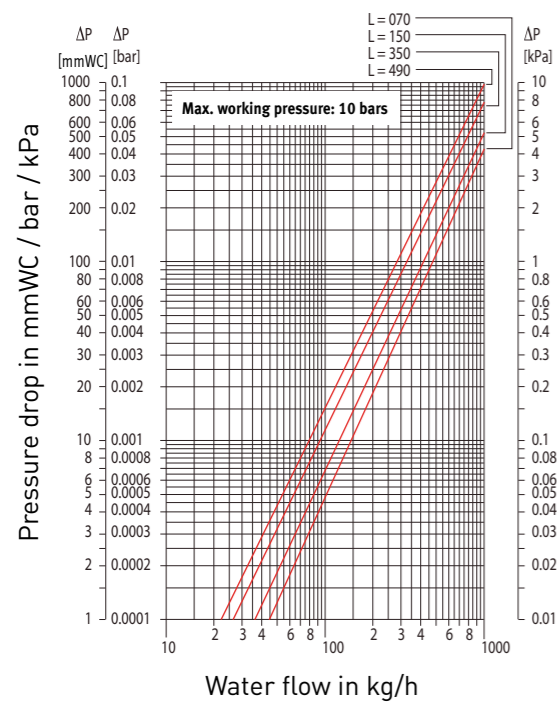
$$\frac{\text{Corrected output [Watts]} \times 3600}{\text{Specific heat capacity [J/kg.}^\circ\text{C]} \times [\text{flow temp} - \text{return temp}]}$$

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

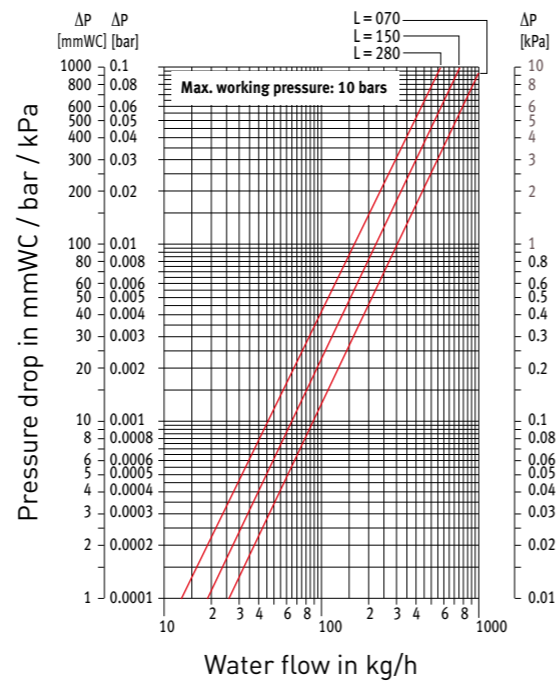
E.g. for a radiator with a 1000 Watt output with a flow temp of 70°C and a return temp of 50°C.

$$\text{Mass flow} = \frac{1000 \times 3600}{4187 \times (70-50)} = 42.99 \text{ kg/hr}$$

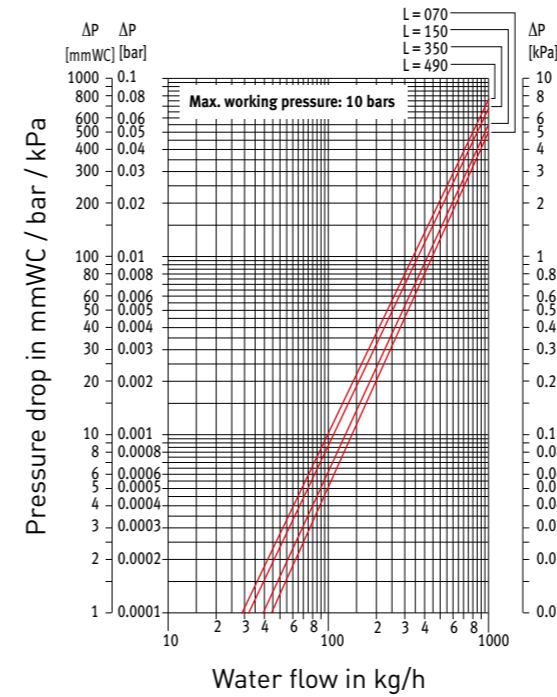
## PRESSURE DROP TYPE 10



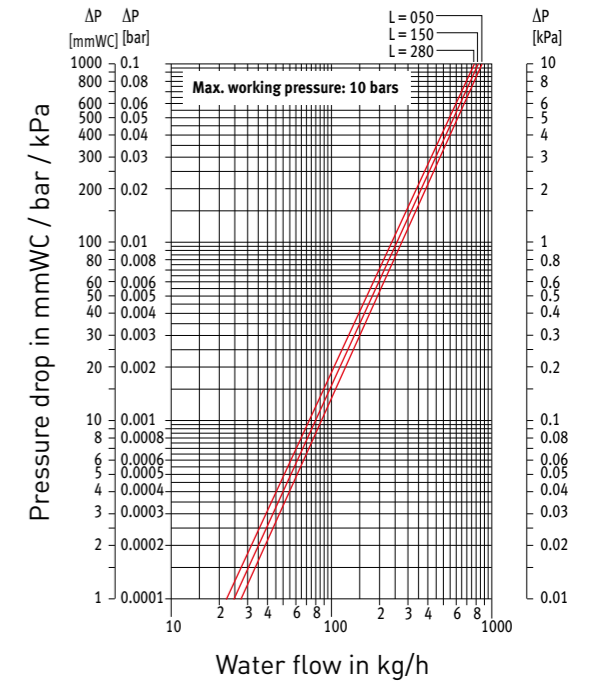
## PRESSURE DROP TYPE 08



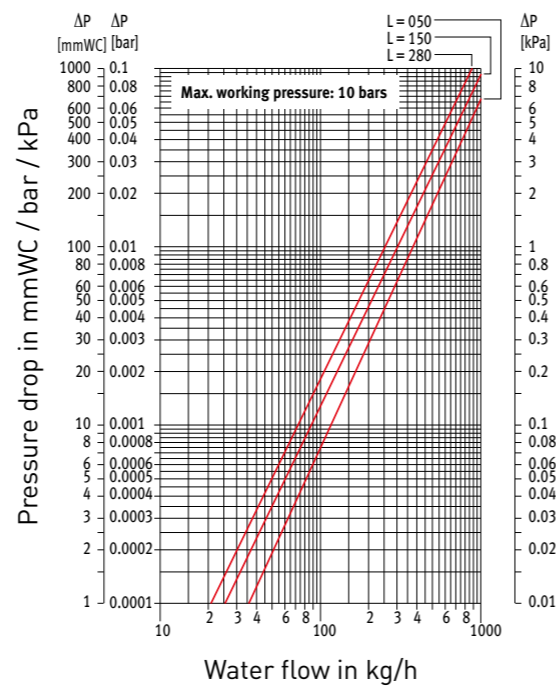
## PRESSURE DROP TYPE 15



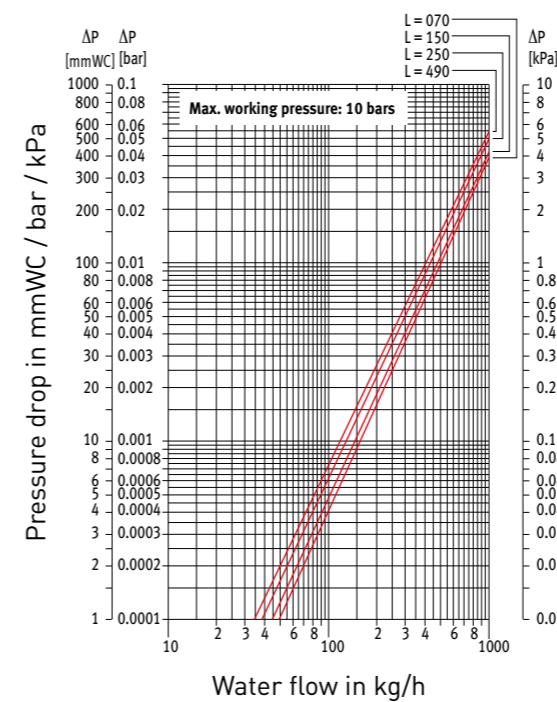
## PRESSURE DROP TYPE 16



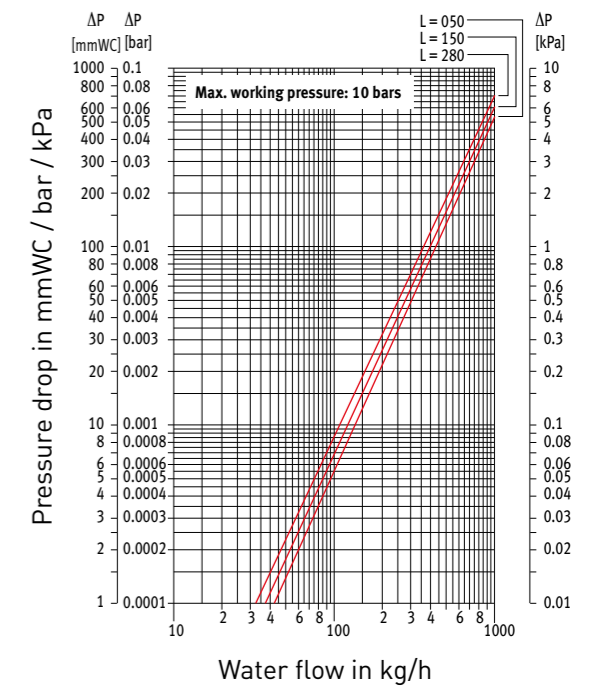
## PRESSURE DROP TYPE 11



## PRESSURE DROP TYPE 20



## PRESSURE DROP TYPE 21



# VALVES, TRV HEADS AND ACCESSORIES

# COLOUR CHART

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



- with pre-setting
- for connection to the floor
- for two pipe
- complies to European standard EN 215.1

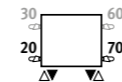
CODE	Description
5094.4414	Jaga Pro Thermostatic -Valve (M24)
5090.1125	TRV Head (white)

## JAGA THERMOSTATIC VALVE - WALL



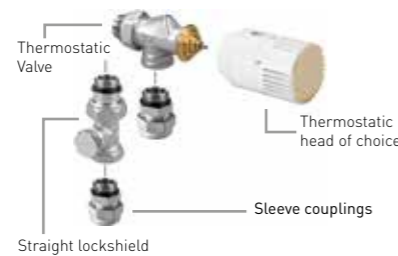
- Consists of the following :
- 5090.407 type 06 angled TRV
  - 5090.111 type 06 angled lockshield valve
  - 5090.1125 white TRV head
  - Adaptors to suit 15mm copper pipe as standard

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



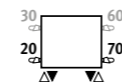
CODE	Description
5090.407	Jaga type 06 TRV (M24)
5090.111	Angled T06 Lockshield (M24)
5090.1125	TRV Head (white)

## JAGA THERMOSTATIC VALVE - FLOOR



- 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)

## 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.

## ARTHRITIC AID



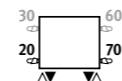
CODE  
5090.ARTH

## HIGH LEVEL JAGA TOP VALVE



- 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)

## TRV HEADS



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)

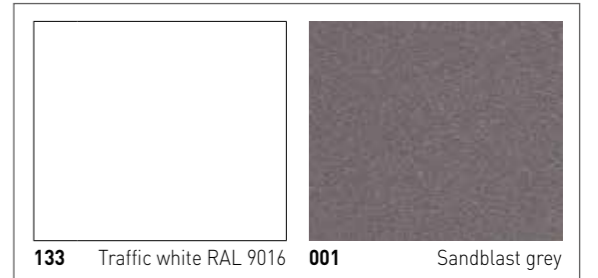
EN442 output at 20°C room temperature

## FINISHING PROCESS

Jaga has two environmentally friendly electrostatic powder coating lines with recuperation and without the use of solvents. After a thorough pre-treatment, the radiators are painted and baked at approx. 185°, ensuring a highly UV and scratch-resistant finish.

## STANDARD COLOURS

Strada standard colours are Traffic white in a soft touch, fine structured satin look finish, and Sandblast grey in a fine texture metallic finish.





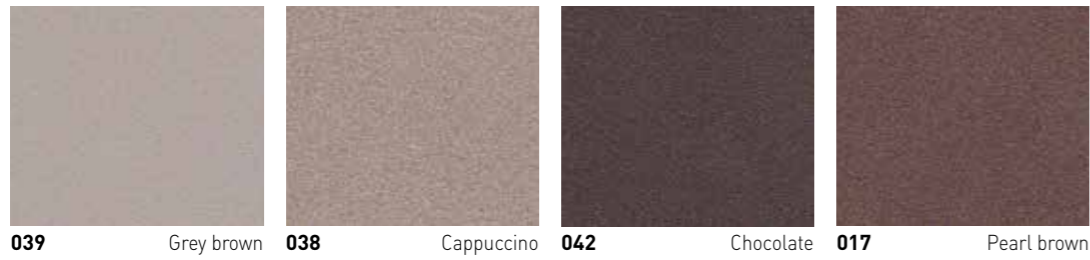
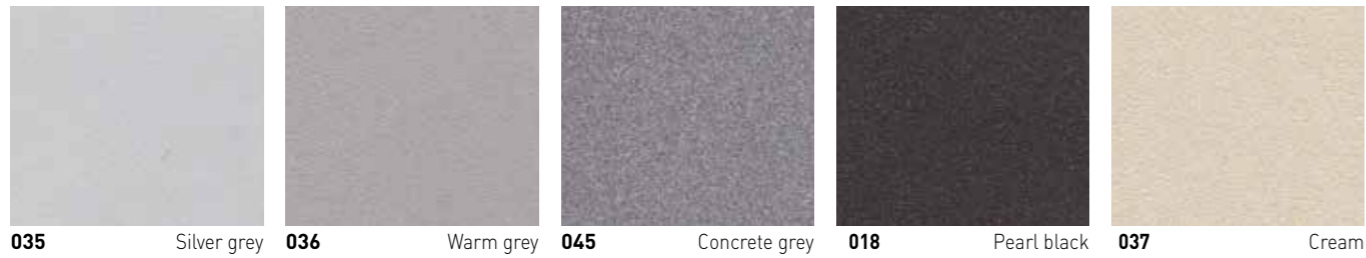
# SPECIAL COLOURS

# NOTES

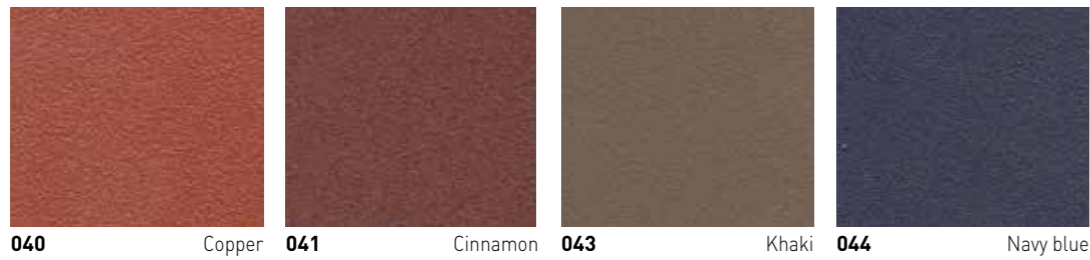
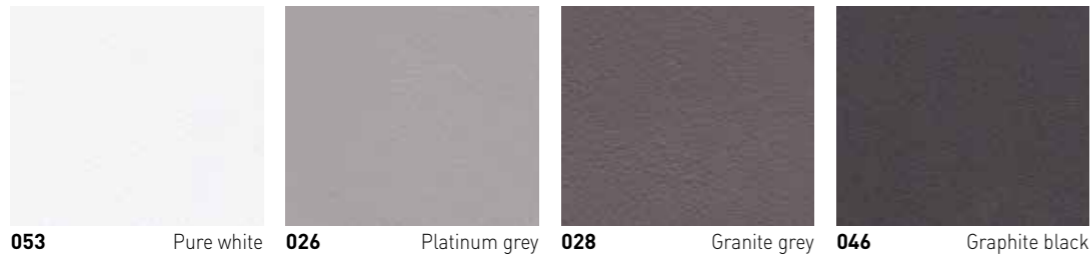
## SMOOTH METALLICS



## FINE TEXTURE METALLIC



## FINE TEXTURE



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.

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Jaga reserves the right to change product specification at any time in line with our policy of continuous improvement and innovation.

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