

jaga

CLIMATE DESIGNERS

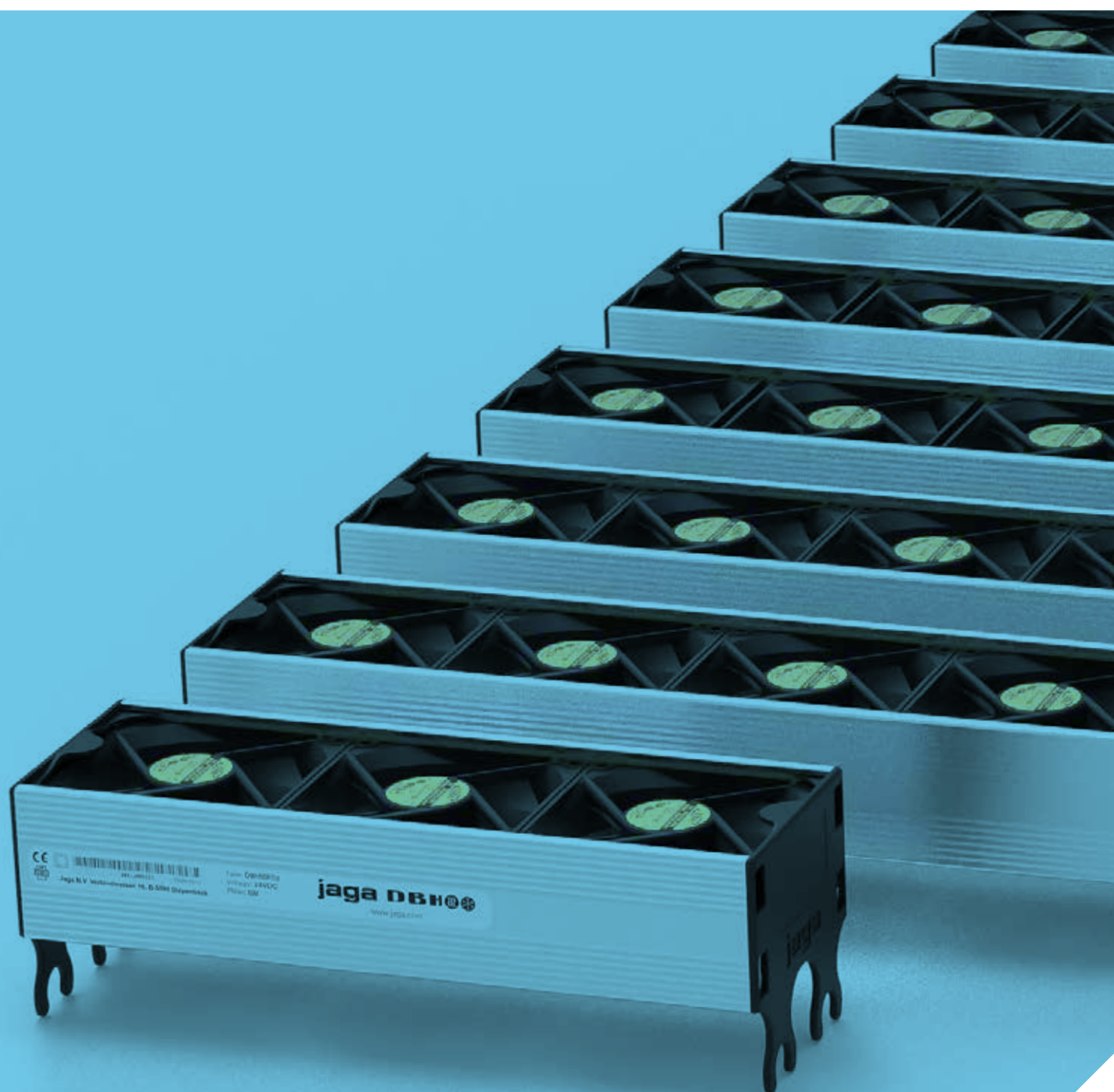
Heating



Light cooling



DBH UPGRADE SET € 2024.EX



€ EX 01/2024

DBH UPGRADE SET

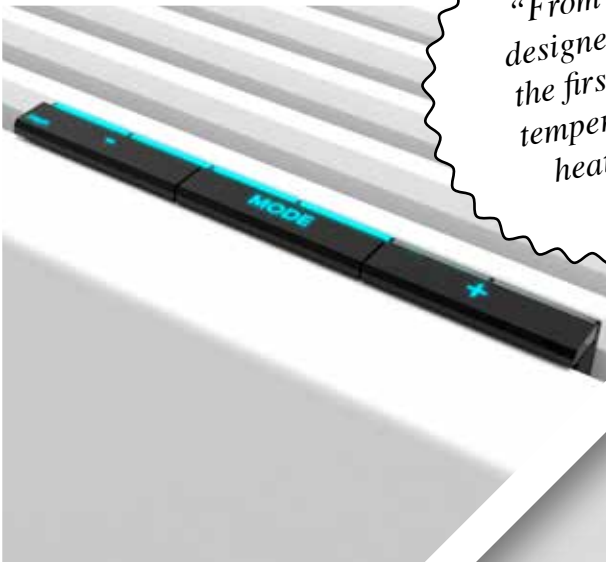
The easiest way to an environmentally friendly HVAC installation

- **switch to low temperature heating with heat pump or low temperature boiler**
- **suitable for environmentally friendly light cooling (non-condensing)**
- **with breeze feature**
- **easy installation on all Jaga Low-H₂O heating units**

The DBH Upgrade set is a booster that was specially developed for Jaga Low-H₂O heating units in order to increase the power and to enable low energy consumption cooling. This set makes it possible to greatly reduce the water temperature of your C.V. installation without having to install larger heating units or having to modify the pipes. Upgrading your existing Jaga heating units with the DBH set is the easiest option towards a low temperature installation or an emission-free heat pump installation for both heating and light cooling.

Also suitable
for Jaga light
cooling

"From the
designers of
the first low
temperature
heater."





DBH  

DBH UPGRADE SET

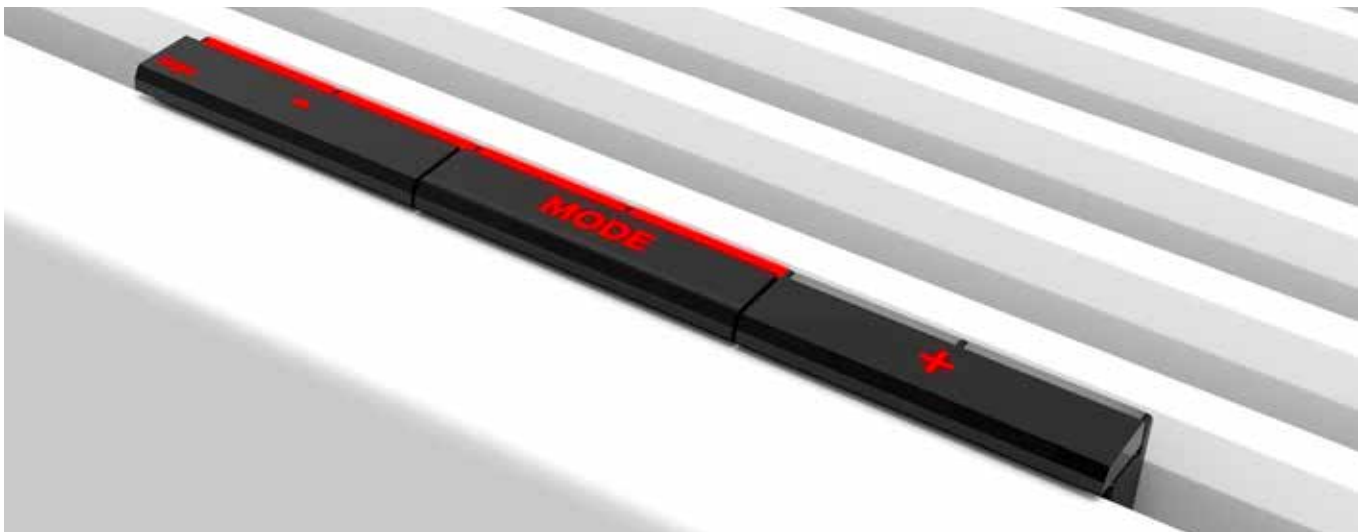


TURN YOUR STANDARD JAGA HEATING UNIT INTO AN ENVIRONMENTALLY FRIENDLY POWERHOUSE

- Efficient and effortless heating with the lowest water temperature
- Energy-efficient non-condensing cooling in combination with any heat pump that can supply cooling water
- Improves the seasonal efficiency of each heat pump
- Makes sure that the condensing boilers are operating at their lowest temperature and as efficiently as possible.



MULTIFUNCTIONAL INTELLIGENCE



DBH SWITCHES FULLY AUTOMATICALLY BETWEEN HEATING AND LIGHT COOLING

Auto-change-over mode (standard)

You do not have to do anything at all to switch between heating and cooling down. Due to its accurate room – and water temperature sensors, the hybrid is fully automated. To achieve the requested temperature you can set 3 different fan speeds, depending on the room where the heating unit is located: bedroom

mode max. 26 dB(A), comfort mode max. 30 dB(A) or maximum mode for rapid heating and cooling.

With breeze feature

The Hybrid heater's DBH system can also be activated if there is no cooling water, so without a heat pump. The vicinity of the heater can already feel less warm with just the air movement of the fans.

A RENOVATION EXAMPLE BEFORE / AFTER

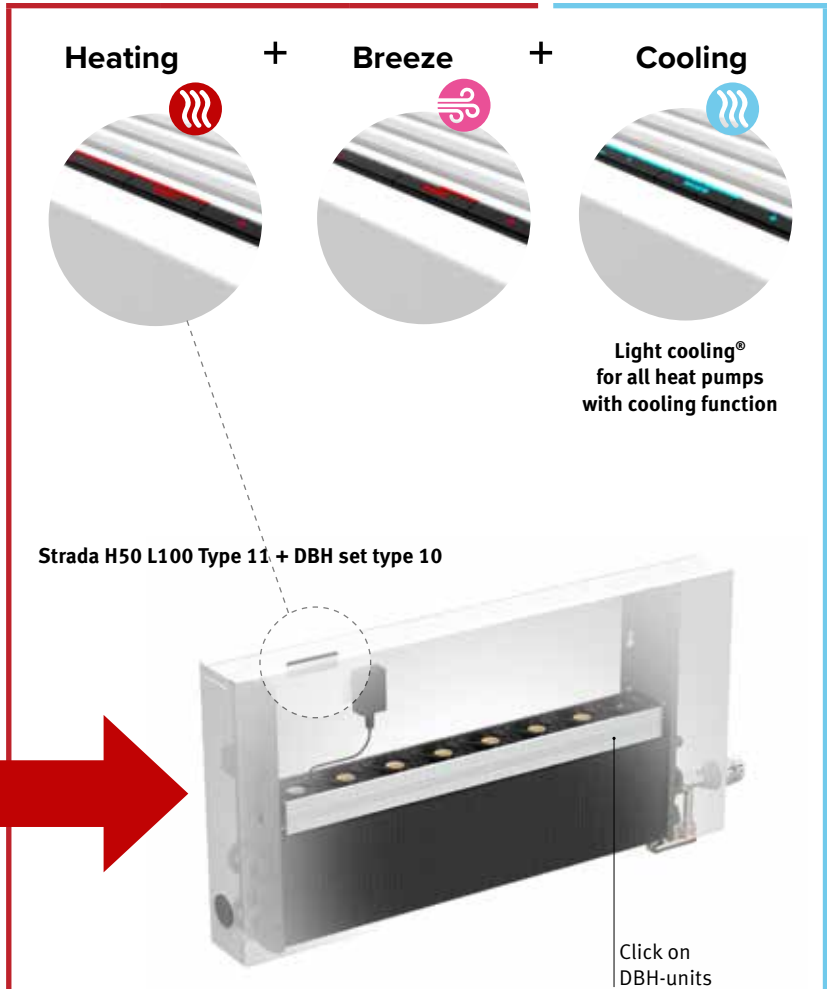
BEFORE



OUTPUTS **WITHOUT** DBH

TEMP. PROFILE	
75/65	1386 WATTS
55/45	665 WATTS
45/35	388 WATTS

AFTER



TEMP. PROFILE	OUTPUT WITH DBH		COOLING WITH DBH
	POSITION 2	POSITION 3	
55/45	1303 WATTS	1600 WATTS	473 WATTS at temp. profile 16/18/27°
45/35	823 WATTS	1011 WATTS	
35/30	495 WATTS	608 WATTS	

Also suitable for Jaga light cooling

DBH UPGRADE CONFIGURATOR

FOR WHICH RADIATORS?



Almost all Jaga Low-H₂O heating units can be equipped with the DBH Upgrade set:
Strada, Linea Plus, Tempo, Installation in a wall recess
For more info on the DBH Upgrade Set, see www.jaga.com/Products/Horizontal/dbh-upgrade

HOW DO I CHOOSE THE RIGHT SET?

Measure the width and length of your Low-H₂O heating unit.
Thickness 11,5 cm = DBH unit 10
Thickness 16,5 cm en 21,5 cm = DBH unit 15
The length of the cover determines how long the DBH-set should be.

DBH UNIT 10

Suitable for type 10 and 11:

- Strada
- Linea Plus
- Tempo
- Installation in a wall recess



DBH UNIT 15

Suitable for type 15,16, 20 and 21:

- Strada
- Linea Plus
- Tempo
- Installation in a wall recess



TYPE 10

TYPE 11



TYPE 15

TYPE 16

TYPE 20

TYPE 21

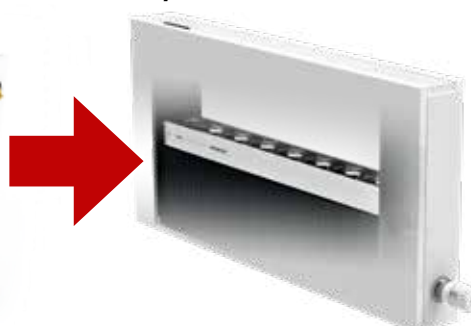
REPLACEMENT OF OTHER HEATING UNITS

Regular panel heaters are not suitable for a DBH- upgrade. You can, however, replace it with a Jaga heating unit that has same dimensions as the old heating unit. This way you can switch to a heating unit that is powerful enough to run at lower water temperatures without losing space to an extra or a larger heating unit.
For all info on Strada Hybrid (incl. DBH system) see www.jaga.com/en/Products/Horizontal/Strada/hybrid-ACO

75/65



55/45



EASY INSTALLATION

OPERATION OF THE DBH SYSTEM

Standard Auto-change-over mode

The desired room temperature is set via a room thermostat or the heating unit's thermostat head. The DBH set has accurate sensors for both the room and water temperature. DBH automatically switches between standby / heating / cooling based on the measured values.

- Suitable for heating or heating and cooling with the thermostat head HC or the manual button MA.
- noise level monitoring, officially measured according to ISO 3741: 2010
- With breeze feature for a fan effect, does not depend on the water temperature.
- Colored LEDs indicate the feature and the fan speed.

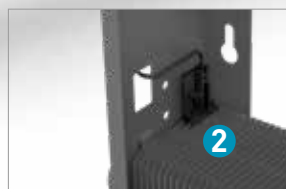
⚠ Het DBH-systeem zal niet controleren de warmtepomp of de boiler en kan daarom niet vervangen worden voor een kamerthermostaat

NEGLIGIBLE ELECTRICITY CONSUMPTION

The DBE system is no fan convector, and certainly not an electric radiator! In operation, the electricity consumption is no more than 7 watts/metre. The annual consumption is negligible and is more than compensated by the energy efficiency of the Low-H₂O technology in the radiator.



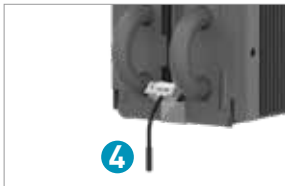
Stick the controller against the console.



Click the water temperature sensor on the coil.



Connect the DBH unit to the controller and click it on the coil



Fix the room temperature sensor.



Put the cover back on the heating unit, but without the grille. Place the controls on the front panel.



Put the plug in the wall socket and put the grille back on the heating unit

NOISE AND POWER ACCORDING TO THE LATEST EUROPEAN STANDARDS

The heat output of Jaga radiators with DBH was measured according to the latest European standards regarding heating units with integrated fans. Jaga is one of the first to comply with the new reference standard **EN 16430**. The sound power (L_w) of the DBH is measured in accordance with **ISO 3741:2010**. As is customary for the sound pressure (L_p), room attenuation of 8 dB(A) is assumed for room content of 100 m³ and a reverberation time of 0.5 sec.

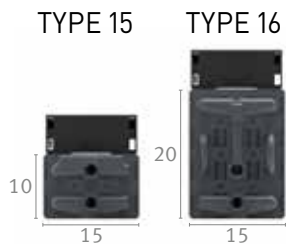
HOW TO SELECT DBH?

DBH is selected in **comfort mode, position 2** in bold in the output tables. This guarantees a quiet operation at a maximum of 30 dB(A). Position 1 is an extremely quiet bedroom setting with a maximum of 26 dB(A). Position 3 provides a maximum boost and the very high output serves primarily to heat up and cool down a room as quickly as possible. In this mode the noise is between 42 and 46 dB(A).

How loud is a decibel?

dB(A)	Perception	Examples
10	hardly to hear	breathing, a falling leave
20	just audible	radio studio, rustling of tree leaves
30	very quiet	library (30 to 40), whispering
40	quiet	living room, quiet classroom, soft buzz, fridge
50	limited sound	air conditioning, normal conversation, dishwasher

DBH SET 15 + LOW-H₂O TYPE 15 / TYPE 16



STANDARD DELIVERY

- DBH unit(s)
- control board with microcontroller and remote control
- AC adapter 230 V/ 24VDC

OUTPUT EXPLANATION

HEATING CAPACITY
Due to the perfect combination of the DBH system and the extremely powerful Low-H₂O coil, the heater's height no longer influences the heat capacity. Thanks to the DBH system, maximum output is available for even the smallest heaters!

COOLING CAPACITY
The cooling capacity remains constant for all types with a maximum height of 50 cm. If the height exceeds 50 cm, the cooling capacity for types 11, 16 and 21 is reduced by approximately 5% for each additional 10 cm of height.

Cooling capacity correction factors for types 11, 16 and 21

Height	Correction factor
20-30-40-50	1.00
60	0.95
65	0.92
70	0.90
80	0.85
90	0.80
95	0.77
100	0.75

DBH SET 15

LENGTH RADIATOR DBH UNIT		POSITION	SOUND PRESSURE dB(A)	ELECTRICITY CONSUMPTION W	€	WATTS WITH TYPE 15			WATTS WITH TYPE 16		
DBHS.	LLL BB /ACO					HEATING Room temperature 20°C	COOLING Room temperature 27°C		HEATING Room temperature 20°C	COOLING Room temperature 27°C	
						55/45 Watts	45/35 Watts	35/30 Watts	55/45 Watts	45/35 Watts	35/30 Watts
DBHS. 050	15 /ACO	1	---	---		---	---	---	---	---	---
		2	---	---		---	---	---	---	---	---
		3	---	---		---	---	---	---	---	---
DBHS. 060	15 /ACO	1	26.0	4.8	338	548	349	212	793	501	301
		2	30.0	5.5		588	375	227	851	538	323
		3	41.1	7.2		778	496	301	1126	712	428
DBHS. 070	15 /ACO	1	26.0	5.1	347	613	390	237	922	582	350
		2	30.0	5.6		658	419	254	990	625	376
		3	41.1	7.2		871	555	337	1310	827	498
DBHS. 080	15 /ACO	1	26.0	6.0	360	798	509	309	1156	730	439
		2	30.0	6.7		856	545	331	1239	783	471
		3	42.4	9.0		1149	732	444	1663	1050	632
DBHS. 090	15 /ACO	1	26.0	7.0	439	914	583	354	1323	836	503
		2	30.0	7.7		980	624	379	1418	896	539
		3	43.3	10.7		1334	850	516	1931	1220	734
DBHS. 100	15 /ACO	1	26.0	7.0	460	1029	656	398	1490	941	566
		2	30.0	7.7		1102	702	426	1595	1008	606
		3	44.1	10.7		1519	968	588	2199	1389	836
DBHS. 110	15 /ACO	1	26.0	7.9	485	1092	696	422	1614	1020	613
		2	30.0	8.8		1169	745	452	1728	1092	657
		3	44.1	12.5		1612	1027	623	2382	1505	905
DBHS. 120	15 /ACO	1	26.0	8.7	493	1269	808	491	1836	1160	698
		2	30.0	9.8		1358	865	525	1966	1242	747
		3	44.8	14.3		1890	1204	731	2735	1728	1039
DBHS. 140	15 /ACO	1	26.0	9.6	524	1504	958	582	2177	1376	827
		2	30.0	10.5		1611	1026	623	2332	1473	886
		3	45.4	14.4		2261	1440	874	3272	2067	1243
DBHS. 160	15 /ACO	1	26.0	11.5	683	1729	1101	669	2502	1581	951
		2	30.0	12.8		1846	1176	714	2671	1688	1015
		3	46.4	19.6		2631	1676	1018	3808	2406	1447
DBHS. 180	15 /ACO	1	26.0	11.5	723	1850	1179	716	2743	1733	1042
		2	30.0	12.8		1975	1258	764	2929	1850	1113
		3	46.4	19.6		2816	1794	1089	4175	2637	1586
DBHS. 200	15 /ACO	1	26.0	13.2	754	2218	1413	858	3210	2028	1220
		2	30.0	14.7		2337	1489	904	3382	2137	1285
		3	47.1	23.5		3372	2148	1304	4881	3083	1855
DBHS. 220	15 /ACO	1	26.0	15.5	817	2462	1568	952	3563	2251	1354
		2	30.0	16.8		2565	1634	992	3712	2345	1410
		3	47.8	27.5		3743	2384	1447	5417	3422	2058
DBHS. 240	15 /ACO	1	26.0	16.4	945	2707	1724	1047	3917	2475	1488
		2	30.0	17.7		2805	1787	1085	4060	2565	1543
		3	48.1	29.7		4113	2620	1591	5953	3761	2262
DBHS. 260	15 /ACO	1	26.0	16.4	972	2828	1802	1094	4158	2627	1580
		2	30.0	17.7		2931	1867	1134	4310	2723	1638
		3	48.1	29.7		4298	2738	1662	6320	3993	2402
DBHS. 280	15 /ACO	1	26.0	19.3	1023	3195	2036	1236	4625	2922	1757
		2	30.0	20.4		3267	2081	1263	4728	2987	1797
		3	48.9	34.5		4855	3093	1877	7026	4439	2670

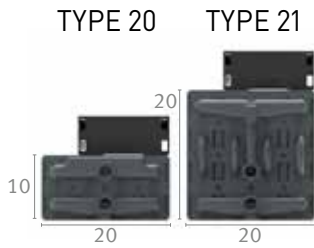
Output measured in accordance with EN 16430

SUITABLE FOR TYPE 15 & TYPE 16:



For more info on the DBH Upgrade Set, see www.jaga.com/Products/Horizontal/dbh-upgrade

DBH SET 15 + LOW-H₂O TYPE 20 / TYPE 21



STANDARD DELIVERY

- DBH unit(s)
- stuurprint met microcontroller en bediening
- AC adapter 230 V/ 24VDC

OUTPUT EXPLANATION

HEATING CAPACITY

Due to the perfect combination of the DBH system and the extremely powerful Low-H₂O coil, the heater's height no longer influences the heat capacity. Thanks to the DBH system, maximum output is available for even the smallest heaters!

COOLING CAPACITY

The cooling capacity remains constant for all types with a maximum height of 50 cm. If the height exceeds 50 cm, the cooling capacity for types 11, 16 and 21 is reduced by approximately 5% for each additional 10 cm of height.

Cooling capacity correction factors for types 11, 16 and 21

Height	Correction factor
20-30-40-50	1.00
60	0.95
65	0.92
70	0.90
80	0.85
90	0.80
95	0.77
100	0.75

DBH SET 15

LENGTH RADIATOR DBH UNIT			POSITION	SOUND PRESSURE dB(A)	ELECTRICITY CONSUMPTION W		HEATING Room temperature 20°C			COOLING Room temperature 27°C		HEATING Room temperature 20°C			COOLING Room temperature 27°C	
DBHS.	LLL	BB /ACO					55/45 Watts	45/35 Watts	35/30 Watts	16/18 Watts	20/22 Watts	55/45 Watts	45/35 Watts	35/30 Watts	16/18 Watts	20/22 Watts
DBHS.	050	15 /ACO	1	---	---		---	---	---	---	---	---	---	---	---	
			2	---	---		---	---	---	---	---	---	---	---	---	
			3	---	---		---	---	---	---	---	---	---	---	---	
DBHS.	060	15 /ACO	1	26.0	4.8	338	771	491	298	166	102	1048	676	416	234 151	
			2	30.0	5.5		825	526	319	178	109	1125	725	447	251 162	
			3	41.1	7.2		976	622	378	211	129	1488	960	591	332 214	
DBHS.	070	15 /ACO	1	26.0	5.1	347	864	550	334	171	105	1149	741	456	240 155	
			2	30.0	5.6		926	590	358	183	112	1234	796	490	258 166	
			3	41.1	7.2		1108	706	428	219	134	1633	1054	648	341 220	
DBHS.	080	15 /ACO	1	26.0	6.0	360	1112	708	430	240	147	1527	985	606	341 220	
			2	30.0	6.7		1194	761	462	258	158	1638	1056	650	366 236	
			3	42.4	9.0		1441	918	557	311	190	2197	1417	872	490 316	
DBHS.	090	15 /ACO	1	26.0	7.0	439	1278	814	494	276	169	1749	1128	694	390 252	
			2	30.0	7.7		1374	876	532	297	182	1874	1209	744	418 270	
			3	43.3	10.7		1674	1066	647	361	221	2552	1646	1013	570 367	
DBHS.	100	15 /ACO	1	26.0	7.0	460	1441	918	557	311	191	1969	1270	782	439 283	
			2	30.0	7.7		1553	989	601	335	205	2108	1360	837	471 303	
			3	44.1	10.7		1906	1214	737	412	252	2906	1875	1154	649 418	
DBHS.	110	15 /ACO	1	26.0	7.9	485	1541	982	596	317	194	2067	1333	821	446 287	
			2	30.0	8.8		1660	1058	642	342	209	2213	1428	879	477 308	
			3	44.1	12.5		2038	1298	788	419	256	3051	1968	1211	658 424	
DBHS.	120	15 /ACO	1	26.0	8.7	493	1762	1123	682	381	233	2426	1565	963	542 349	
			2	30.0	9.8		1904	1213	736	411	252	2598	1676	1032	580 374	
			3	44.8	14.3		2371	1510	917	512	313	3615	2332	1435	807 520	
DBHS.	140	15 /ACO	1	26.0	9.6	524	2076	1323	803	448	274	2877	1856	1143	642 414	
			2	30.0	10.5		2249	1432	870	486	297	3082	1988	1224	688 443	
			3	45.4	14.4		2836	1807	1097	612	375	4324	2789	1717	965 622	
DBHS.	160	15 /ACO	1	26.0	11.5	683	2384	1519	922	515	315	3307	2133	1313	738 476	
			2	30.0	12.8		2588	1649	1001	559	342	3530	2277	1402	788 508	
			3	46.4	19.6		3301	2103	1276	713	436	5033	3246	1998	1123 724	
DBHS.	180	15 /ACO	1	26.0	11.5	723	2574	1640	995	526	322	3497	2256	1388	750 483	
			2	30.0	12.8		2794	1780	1081	571	349	3733	2408	1482	801 516	
			3	46.4	19.6		3564	2270	1378	728	446	5322	3433	2113	1142 736	
DBHS.	200	15 /ACO	1	26.0	13.2	754	2984	1901	1154	644	394	4242	2736	1684	947 610	
			2	30.0	14.7		3253	2072	1258	702	430	4469	2883	1775	998 643	
			3	47.1	23.5		4230	2695	1636	914	559	6450	4161	2561	1440 928	
DBHS.	220	15 /ACO	1	26.0	15.5	817	3260	2077	1261	704	431	4709	3038	1870	1051 677	
			2	30.0	16.8		3562	2269	1377	769	471	4905	3164	1948	1095 706	
			3	47.8	27.5		4695	2991	1816	1014	621	7159	4618	2843	1598 1030	
DBHS.	240	15 /ACO	1	26.0	16.4	945	3534	2251	1367	763	467	5177	3339	2056	1155 745	
			2	30.0	17.7		3872	2466	1497	836	512	5365	3461	2130	1197 772	
			3	48.1	29.7		5160	3287	1996	1114	682	7868	5075	3124	1756 1132	
DBHS.	260	15 /ACO	1	26.0	16.4	972	3688	2349	1426	768	470	5367	3462	2131	1168 752	
			2	30.0	17.7		4067	2591	1573	848	519	5562	3588	2209	1210 780	
			3	48.1	29.7		5423	3455	2097	1130	692	8157	5262	3239	1774 1144	
DBHS.	280	15 /ACO	1	26.0	19.3	1023	4141	2638	1602	894	547	6112	3943	2427	1364 879	
			2	30.0	20.4		4572	2913	1768	987	604	6249	4031	2481	1395 899	
			3	48.9	34.5		6090	3879	2355	1315	805	9285	5990	3687	2072 1336	

Output measured in accordance with EN 16430

SUITABLE FOR TYPE 20 & TYPE 21:



For more info on the DBH Upgrade Set, see www.jaga.com/Products/Horizontal/dbh-upgrade

NOTES

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The information in this price list is correct at the time of printing.
Jaga reserves the right to change product specification at any time in line
with our policy of continuous improvement and innovation.
All prices in Euro, exclude VAT. Prices valid from January 1, 2024.
Replaces all existing price lists.