

EPECON

Heating



Light cooling



DBH UPGRADE SET 2020



EPECON

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.

“From the designers of the first low temperature heater.”

Also suitable for Jaga light cooling

CLIMATE DESIGN





DBH UPGRADE SET

ERS

DBH

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

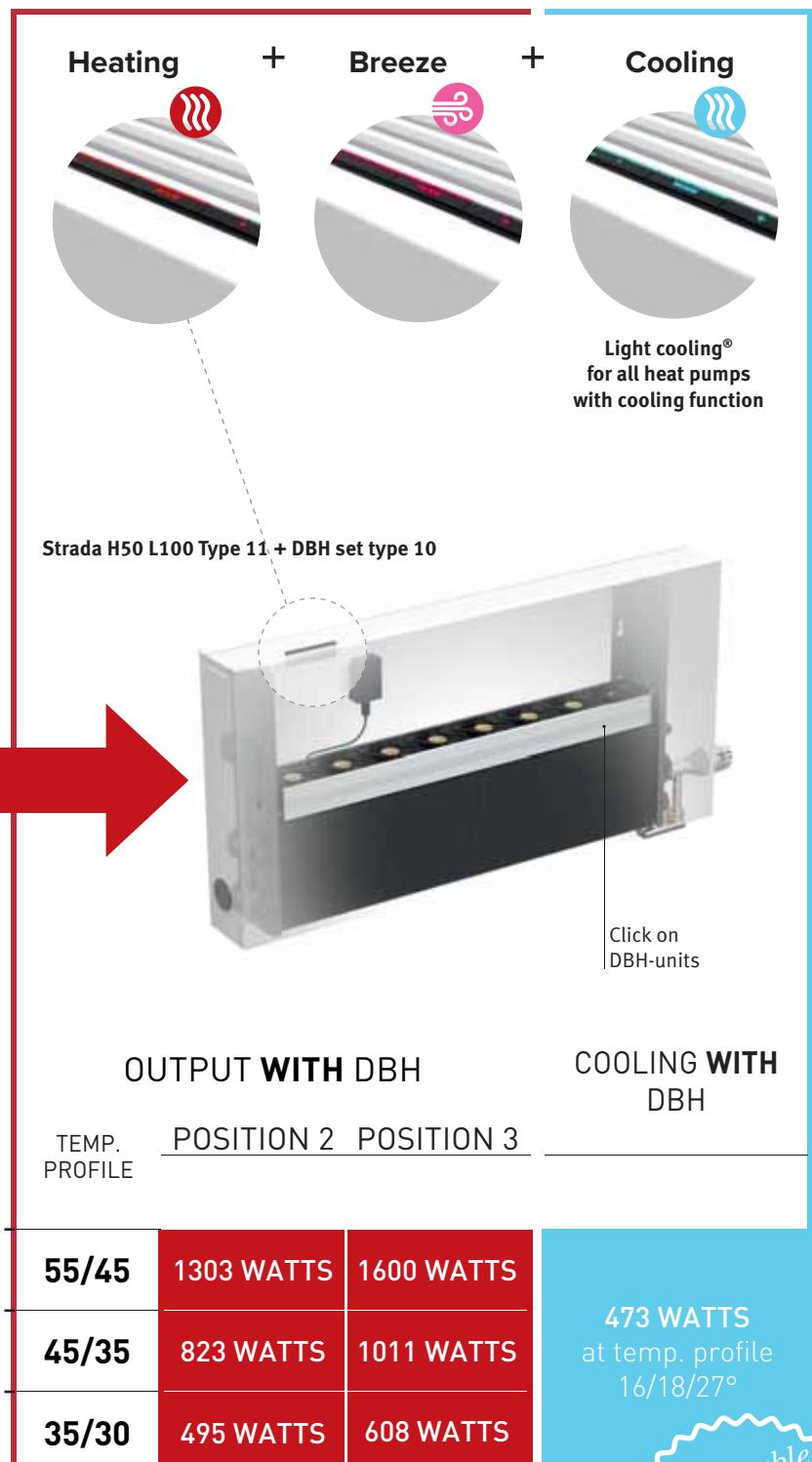
The Hybrid heater's DBH system can also be activated if there is no cooling water, so without a heat pump. The vicinity of the heater can already feel less warm with just the air movement of the fans.

A RENOVATION EXAMPLE BEFORE / AFTER

BEFORE

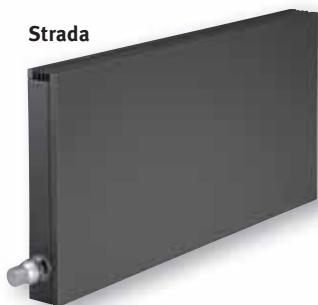


AFTER



DBH UPGRADE CONFIGURATOR

FOR WHICH RADIATORS?



Strada



Linea Plus

Tempo



Installation in a
wall recess

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 type 10

Thickness 16,5 cm en 21,5 cm = DBH unit type 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/strada/hybrid

75/65



55/45



EASY INSTALLATION

OPERATION OF THE DBH SYSTEM

Standard Auto-change-over mode

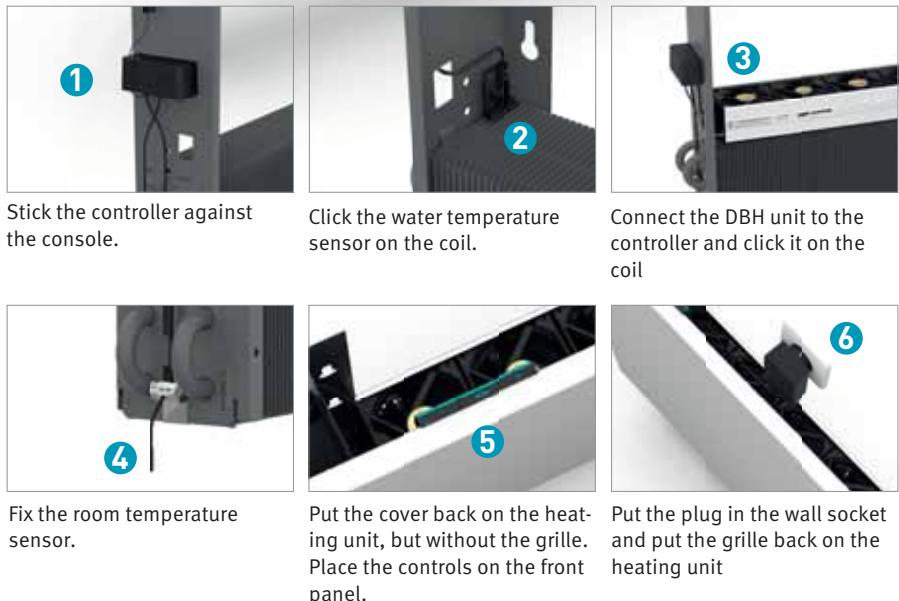
The desired room temperature is set via a room thermostat or the heating unit's thermostat head. The DBH set has accurate sensors for both the room and water temperature. DBH automatically switches between standby / heating / cooling based on the measured values.

- 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-system will not control the heat pump or the boiler and therefore cannot replace a room thermostat



NEGIGIBLE 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.



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 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

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).

NOTES
