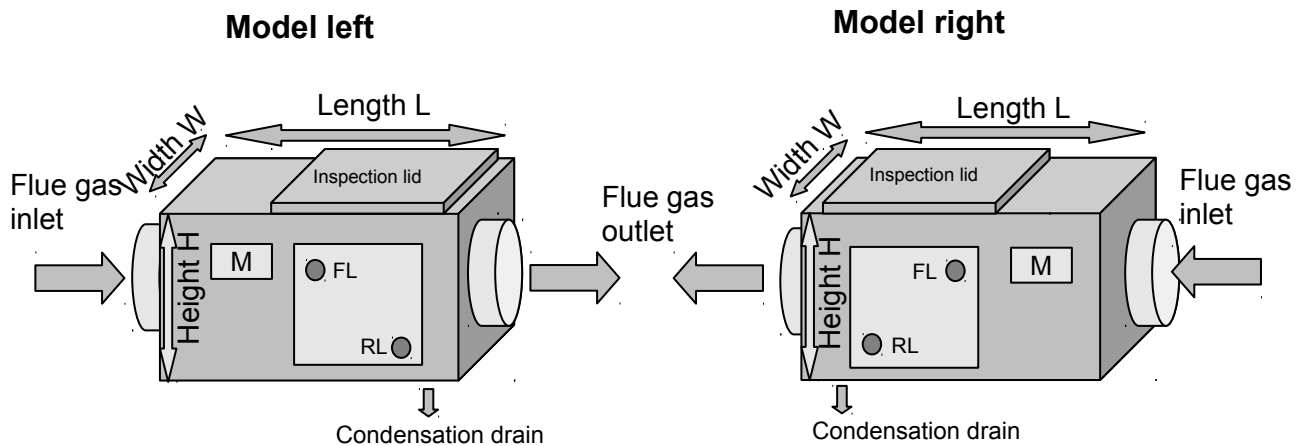


**Flue Gas Heat Exchanger**  
with internal flue gas bypass and extendable register  
for heating with split logs, woodchips, wood pellets



Caption:

M: Actuator for bypass damper  
Condensation drain (half coupling)

FL: Water connection flow line  
RL: Water connection return line

The values in the table refer to a flue gas temperature of 280°C at the inlet of the heat exchanger and 70/60°C for the flow line and return line of the cooling water. The maximum temperature limit is 400°C for the flue gas temperature and 110°C for the flow temperature.

The flue gas with the specified mass flow is cooled down to about 130°C in the heat exchanger. The pressure is about 16 Pa = 0.16 mbar for the flue gases and about 1 to 4 mbar for the cooling water.

The register is removable, but may also be cleaned via the inspection lid.

A dip tube is installed in the register of the flue gas heat exchanger for inserting a temperature sensor. In combination with the NET charge control an efficient control of the charge pump is possible.

**Standard version:** with insulation in stainless-steel casing, four fastening brackets each on the sides of the flue gas inlet and outlet.

Materials (stainless steel): Casing 1.4571, pipes 1.4571

The design of the heat exchangers is **variable in the following ways:**

- Position of the flue gas inlet in the front view of the register: 'left' or 'right'
- Layout for horizontal or vertical installation

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Flue gas heat exchanger	for flue gas mass flow	Heat output	Cooling water mass flow	Water connections (internal thread)	Connections <sup>1)</sup> for flue gas pipe (standard)	L <sup>2)</sup>	W <sup>2)</sup>	H <sup>2)</sup>
Type	kg/h	kW	kg/h	Inch	Nominal-Ø	mm	mm	mm
GB 3.8-0.7	95	4,4	380	¾	150	700	610	230
GB 5.8-1.5	190	8,8	760	¾	200	750	710	300
GB 8.8-2.4	300	14	1200	1	250	880	710	400
GB 10.8-3.7	480	22	1920	1 1/4	as requested	960	860	460
GB 12.8-4.5	580	27	2310	1 1/4	as requested	1000	860	520

Status 21.06.2017  
Subject to technical changes

<sup>1)</sup> Flue gas connections: Length 50 mm  
(protrude 10 mm beyond casing )

<sup>2)</sup> incl. 40mm insulation