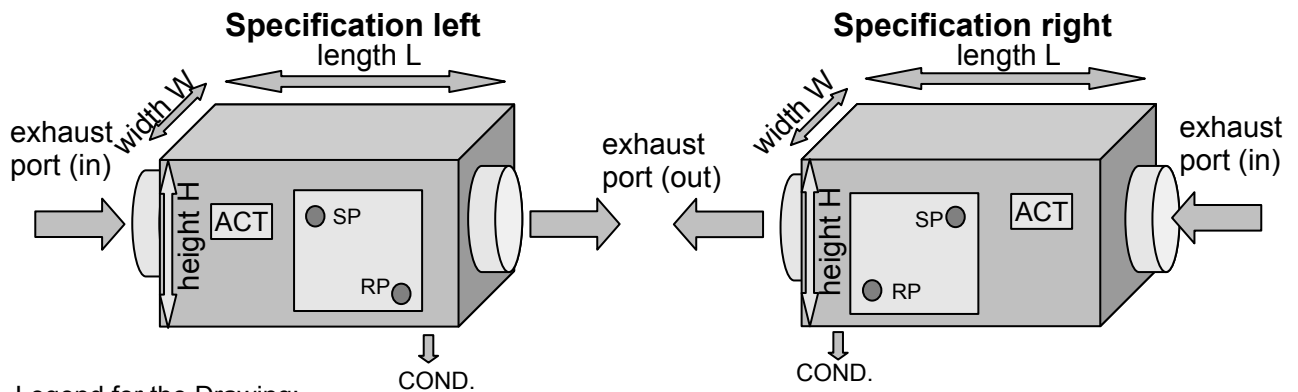


Waste Gas Heat Exchanger with Integrated Gas Bypass and Pull-Out Heat Register for Baking Ovens and Thermal Oil Boilers



Legend for the Drawing:

ACT: actuator for the bypass flap
COND.: condensate drain (half sleeve)

SP: Supply pipe to tank
RP: Return pipe from tank

The specifications in the table below apply to a gas temperature of 280°C at the heat exchanger inlet and a supply water temperature of 60/80°C (return flow/supply flow). The maximum allowable water temperature of the supply flow is 90°C.

In the register of the exhaust gas heat exchanger there are four thermowells for inserting a temperature sensor, a capillary sensor of a safety temperature limiter and additional measuring devices. In conjunction with the NET charge controller and a charge pump, this enables efficient and safe regulation of the heat exchanger.

The heat exchanger is insulated (high-grade steel case). On demand we deliver without insulation. 4 mounting brackets on the corners of each side of exhaust in- and outlet.

Material (stainless steel): housing 1.4571, finned pipes 1.4571 / 1.4521

The heat exchanger models vary in the following features:

- a) the location of the gas inlet port relative to the heat register (frontal view): left or right
- b) the mounting parts for the horizontal and vertical installations

Heat Exchanger	Burner Rating	Thermal Rating	Gas Cooled down to	Pressure Drop for exh. gas	Cooling Water Mass Flow Rate	Water Pipe Connectors [Clearance Gauge]	Gas Connectors for flue gas pipe with ¹⁾ (Standard)	L ²⁾	W ²⁾	H ²⁾
Type	kW	kW	°C	Pa	kg/h	inch	nominal Ø	mm	mm	mm
RB 70-3.6V	70	8	85	15	330	1	150	800	635	320
RB 140-3.6V	140	14	106	52	590	1	150	800	635	320
RB 210-4.6V	210	20	111	55	860	1	200	875	635	380
RB 250-5.6V	250	25	100	34	1090	1 1/4	250	885	750	445
RB 350-6.6V	350	35	106	42	1480	1 1/4	300	935	750	505
RB 500-7.6V	500	47	114	58	2020	1 1/4	350	1000	750	560
RB 750-8.6V	750	68	120	76	2940	1 1/2	400	1100	835	620
RB 1000-10.6V	1000	89	122	82	3850	2	500	1200	835	715

¹⁾ tube length: 50 mm (external projection: 10 mm) ²⁾ including 40 mm insulation

Continuation:

In the version without bypass, the technical data remains unchanged.
The case dimensions are as follows:

Heat Exchanger	Burner Rating	Thermal Rating	Gas Cooled down to	Pressure Drop for exh. gas	Cooling Water Mass Flow Rate	Water Pipe Connectors [Clearance Gauge]	Gas Connectors for flue gas pipe with ¹⁾ (Standard)	L ²⁾	W ²⁾	H ²⁾
Type	kW	kW	°C	Pa	kg/h	inch	nominal Ø	mm	mm	mm
R 70-3.6V	70	8	85	15	330	1	150	625	635	310
R 140-3.6V	140	14	106	52	590	1	150	625	635	310
R 210-4.6V	210	20	111	55	860	1	200	625	750	356
R 250-5.6V	250	25	100	34	1090	1 1/4	250	650	750	402
R 350-6.6V	350	35	106	42	1480	1 1/4	300	650	750	448
R 500-7.6V	500	47	114	58	2020	1 1/4	350	650	750	494
R 750-8.6V	750	68	120	76	2940	1 1/2	400	705	835	558
R 1000-10.6V	1000	89	122	82	3850	2	500	745	835	650
R 1400-12.6V	1400	119	129	115	5140	2	500	745	835	742
R 1600-14.6V	1600	138	128	116	5910	2	500	745	835	834

¹⁾ tube length: 50 mm (external projection: 10 mm) ²⁾ including 40 mm insulation

Last update 22.07.2019, Technical changes reserved