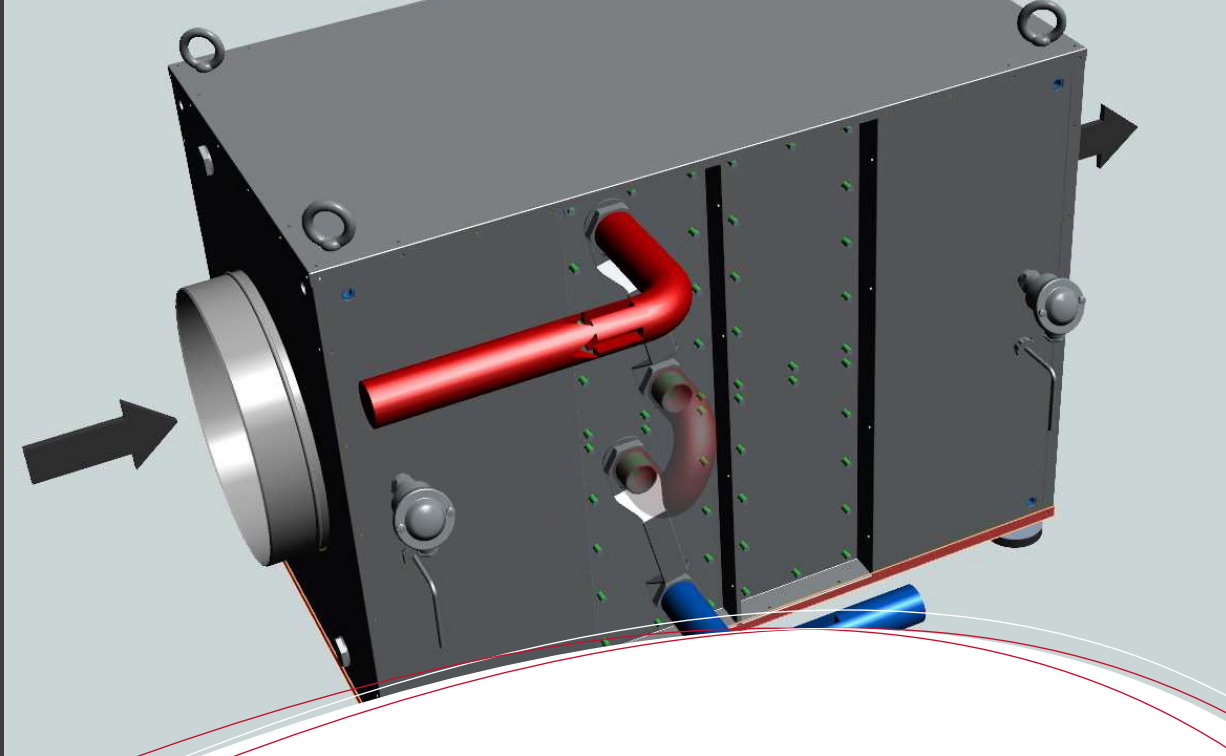
HEAT RECOVERY– BP SERIES



Basic Plate (BP) 250-1000

Flue gas and process heat

The high-temperature heat recovery units in the Basic Series from **exodraft** recover unused energy from flue gases and process air. The units are designed to operate in flue gas temperatures up to 600 °C on air side.

The housing of the Basic Series units consists of stainless steel 1.4404 (internal) and 1.4301 (external) and is protected against radiation losses with a highly effective insulation while a built-in drain ensures disposal of condensation.

The highly efficient plate heat exchangers, which consists of stainless steel (copper brazed joints), is distinguished by its robustness and its efficient heat transmission, courtesy of its unique design.

The plate heat exchangers are quick and easy to remove for cleaning and maintenance, thereby reducing the maintenance work to a minimum of time.

The **exodraft** heat exchangers have a minimal space requirement due to their compact design.

Not suitable for solid fuel units (wood, coal, biomass, etc.).

Units in the Basic Series can be combined in a modular fashion, allowing for a fully customized system.

The Basic Plate units come with four lifting eyes which can be repositioned, allowing for both horizontal and vertical mouting orientations.

As an alternative to the standard copper brazed heat exchanger, the Basic Series also offers a nickel brazed option that is more suited for installation in corrosive environments.

The Basic Series units are intended for indoor installation, but can be installed outdoors if the unit is covered/ encapsulated properly.

Available in both 1-step (standard) and 2-step versions.

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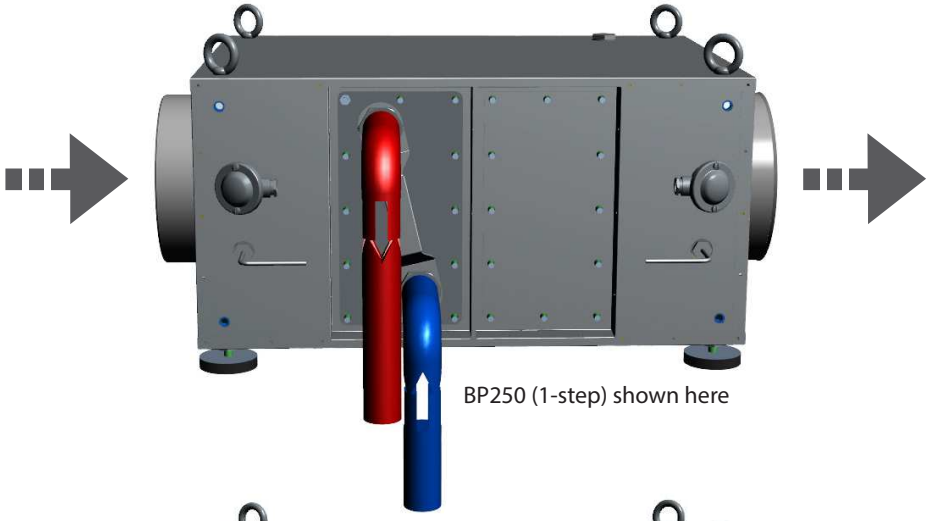
Overview

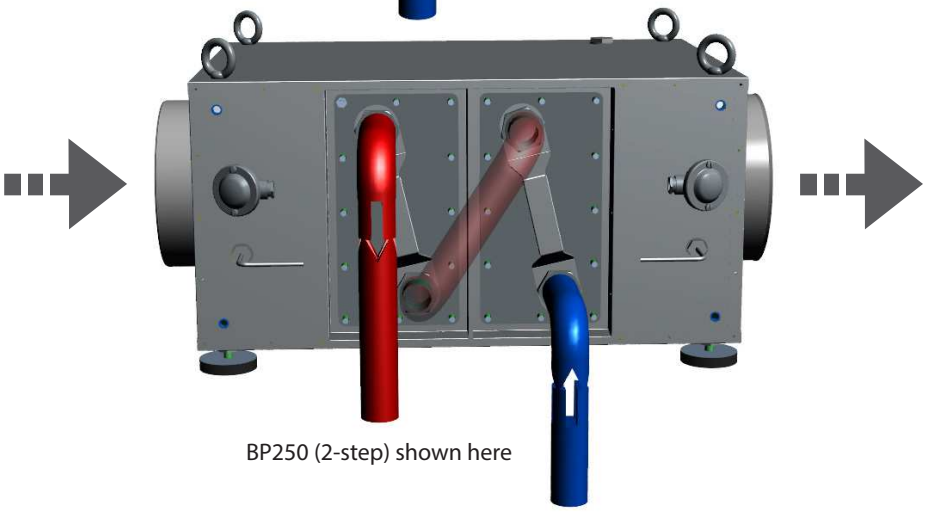
Maximum flue gas temperature of 600 °C on air side
Can be combined with other Basic Plate units in a modular fashion
All parts in connection with flue gas made in stainless steel 316 (EN 1.4404)
All external parts made in stainless steel 304 (EN 1.4301)
40 mm insulation
Maximum pressure water side of heat exchangers 12 bar
Designed for indoor use, but can be used outdoors if the product is covered/encapsulated
Option for nickel brazed heat exchangers in corrosive environments

Approval

In conformance with:	**In conformance with:**
Pressure Equipment Directive 2014/68/EU – EN 13445 Fluid Group: 1 & 2	Machine Directive 2006/42/EF



BP250 (1-step) shown here



BP250 (2-step) shown here

Accessories

Mounting feet
Temperature transmitter
Pressure connector
Cover plate for – single
Cover plate for – doubble

Spare Parts

Heat exchanger gasket
Heat exchanger Cross30-C-120
Heat exchanger Cross30-C-140

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Models

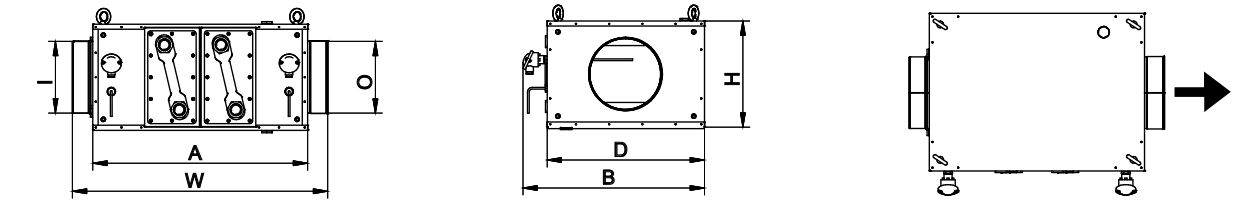
Model (Item no.)	Description	Approx. burner output [kW]	Natural gas Nominal flow 250 °C [m^3] λ 1.2	Max. temp [°C]	Inlet [Nipple] [mm]	Outlet [Sleeve] [mm]	Weight incl. heat exchanger 1 step [kg]	Weight incl. heat exchanger 2 step [kg]
BP250 (8002300)	Basic cabinet AIREC heat exchanger (plate) Copper brazed Standard connections Max 600 °C 1 step (air side)	250	600	600	250.5	251.2	(57)	(74)
BP500 (8002500)	Basic cabinet AIREC heat exchanger (plate) Copper brazed Standard connections Max 600 °C 1 step (air side)	500	1200	600	350.5	351.2	(106)	(140)
BP750 (8002600)	Basic cabinet AIREC heat exchanger (plate) Copper brazed Standard connections Max 600 °C 1 step (air side)	750	1700	600	400.5	401.2	(185)	(244)
BP1000 (8002700)	Basic cabinet AIREC heat exchanger (plate) Copper brazed Standard connections Max 600 °C 1 step (air side)	1000	2300	600	500.5	501.2	(188)	(256)

Heat Exchangers

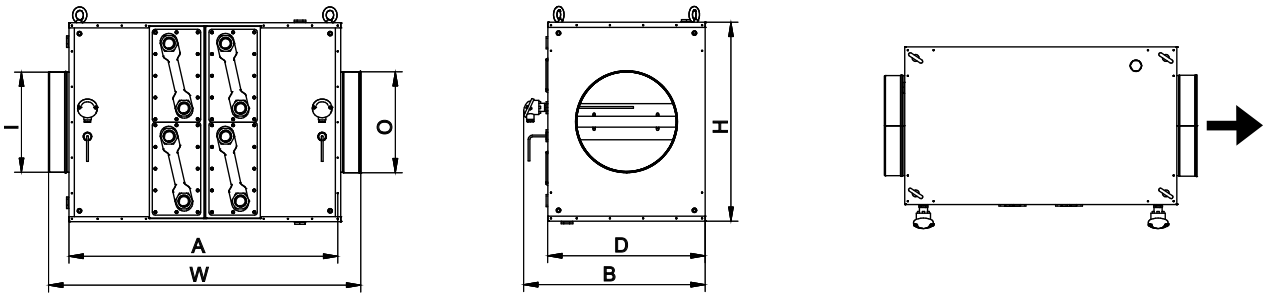
Compatibility	Model	Item no.	Joint material	Plates	Water connection [“]	Max pressure [bar] 190 °C plate temp	Number of heat exchangers 1 step	Number of heat exchangers 2 step
For BP250	Cross30-C-140	3200989	Copper brazed	139	G 1 1/4	12	1	2
For BP500	Cross30-C-140	3200989	Copper brazed	139	G 1 1/4	12	2	4
For BP750	Cross30-C-120	3200988	Copper brazed	119	G 1 1/4	12	4	8
For BP1000	Cross30-C-140	3200989	Copper brazed	139	G 1 1/4	12	4	8

Dimensions

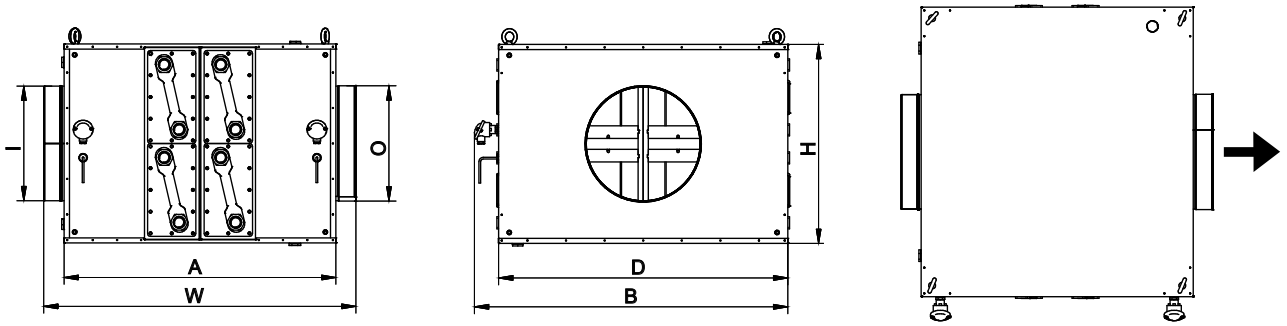
front view | side view | top view



BP250



BP500



BP750-1000

Model/Dimension	W	H	D	A	B	I*	O*
BP250	893.1 mm	371.4 mm	551.7 mm	752.8 mm	635 mm	250.5 mm	251.2 mm
BP500	1092.1 mm	696.4 mm	551.7 mm	951.8 mm	635 mm	350.5 mm	351.2 mm
BP750	1092.1 mm	696.4 mm	1013.2 mm	951.8 mm	1096.5 mm	400.5 mm	401.2 mm
BP1000	1092.1 mm	696.4 mm	1013.2 mm	951.8 mm	1096.5 mm	500.5 mm	501.2 mm

* I = Inlet with nipple coupling (outer measure)
O = Outlet with sleeve coupling (inner measure)

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