



baelz 111 / 112

STRAIGHT-TUBE HEAT EXCHANGERS

- standing version, thus suitable for capacity control with condensate backup
- tube bundle not exchangeable
- ring channel optional
- compensator optional
- baelz 112 suitable for drinking water

FLUIDS

baelz 111:

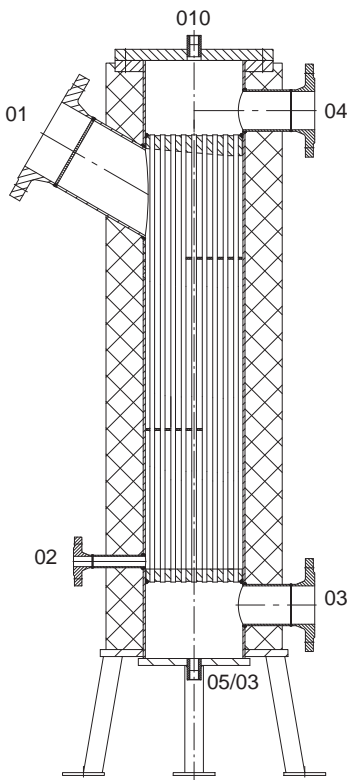
Tube side heating water, glycol, hot oil, neutral liquids, other fluids on request; shell side steam and condensate

baelz 112:

Tube side drinking water; shell side steam and condensate

To avoid corrosion in heat exchangers, water qualities must be checked and recorded at regular intervals.

Requirements for water qualities can be found in our Corrosion Specification, which we are happy to send you upon request.



Technical specifications, baelz 111 / 112

	baelz 111	baelz 112
Tubes	Steel / copper / stainless steel	1.4571
Tube sheet	Steel / stainless steel	Steel (or Cu / rustfree steel plated / stainless steel)
Preheader	Steel / parts in contact with the fluid 1.4571	Stove-enamelled steel / stainless steel
Shell	Steel / parts in contact with the fluid 1.4571	Steel / parts in contact with the fluid 1.4571
Insulation	Mineral wool with galvanized metal shell 50 / 80 mm	
Housing height	min. 1000, max. 8000 mm	
Diameter	min. Ø 114 mm, max. Ø 1200 mm	

Design, production and testing according to Pressure Equipment Directive PED 2014/68/EU
Category / Module: I / A, II / A2, III / G or IV / G or Art. 4, para. 3 and AD 2000 Rules.

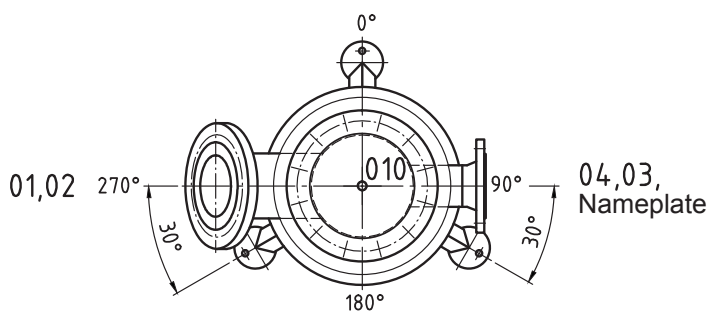
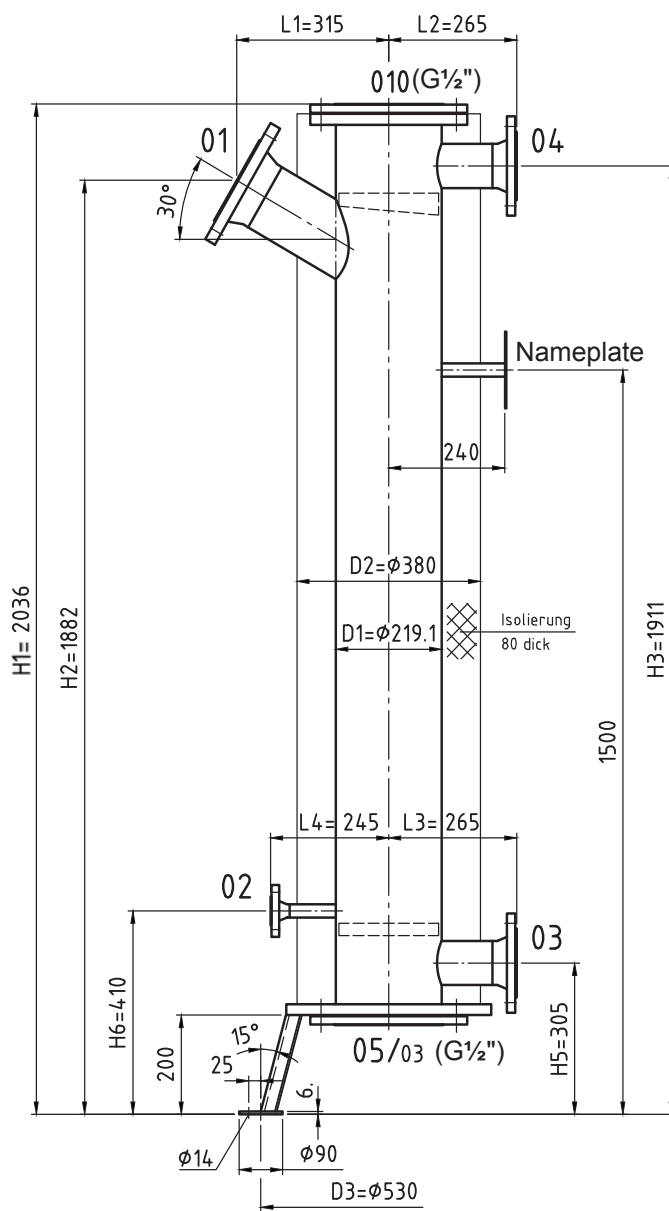
baelz 111 / 112:

- 01 = heating fluid inlet
- 02 = heating fluid outlet
- 03 = secondary return
- 04 = secondary flow
- 05/03 = secondary emptying (R 3/4 ")
- 010 = deaeration/venting for 01/02 (DN 20, PN 16)

Note:

- In accordance with AD 2000 no load transfer may take place across flange and socket connections.
- Required hot water quality according to VDI 2035 (avoidance of damage in hot water heating systems according to DIN EN 12828)

Dimensions baelz 111 / 112 - type 111-219-195-15 shown



For dimensions and connections of all standard models, see the following page.

All dimensions are approximate and can change to suit project requirements!

Dimensions baelz 111 /112 with tube length 1500 mm

All dimensions are approximate and can change to suit project requirements!

Dimensions baelz 111 /112 standard models (in mm)												
Baelz Type	D1	D2	D3	H1	H2	H3	H5	H6	L1	L2	L3	L4
111-114-40-15	114,3	275	410	1976	1864	1866	290	375	230	190	190	185
111-139-60-15	139,7	300	435	2006	1872	1891	295	390	240	215	215	198
111-168-105-15	168,3	330	480	2006	1872	1891	295	395	280	233	233	220
111-219-195-15	219,1	380	530	2036	1882	1911	305	410	315	265	265	245
111-273-312-15	273,0	435	585	2106	1917	1961	325	447	340	295	295	270
111-324-448-15	323,9	485	655	2150	1929	1991	335	480	380	325	325	300

Connections baelz 111 /112 standard models									
Baelz Type	heating fluid inlet		condensate outlet		secondary inlet		secondary outlet		
	DN 01	PN 01	DN 02	PN 02	DN 03	PN 03	DN 04	PN 04	
111-114-40-15	65	40	15	40	50	16	50	16	
111-139-60-15	80	40	15	40	65*	16	65*	16	
111-168-105-15	100	40	20	40	65*	16	65*	16	
111-219-195-15	125	40	20	40	80	16	80	16	
111-273-312-15	125	40	25	40	100	16	100	16	
111-324-448-15	150	40	40	40	125	16	125	16	

All connections according to EN 1092-1 type 11, sealing surface form B1

* Connections 03 and 04 (DN 65, PN 16) in 4-hole design