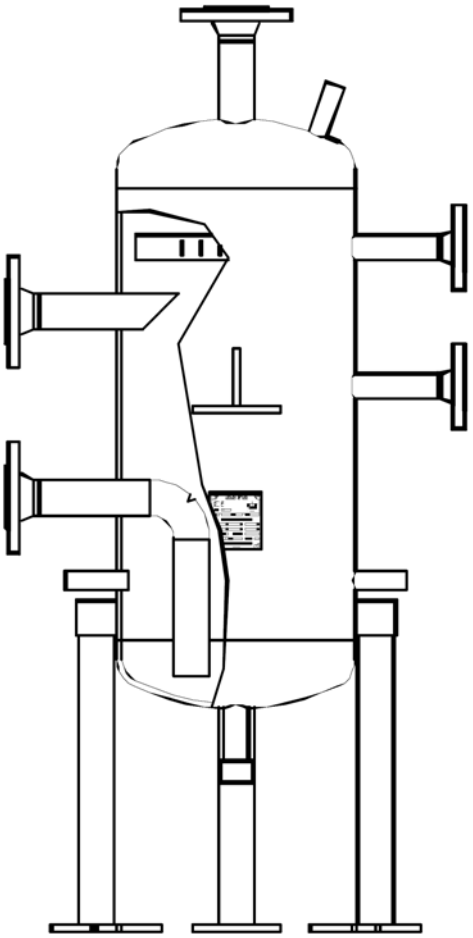
Blowdown Expansion & Cooling Units
BEX



New BEX

Blowdown expansion and cooling units

Main features:

- ***Compact design***
- ***Cooling of waste hot water before to discharge into a drain avoiding thermal pollution***
- ***Cooling and condensation of flash steam***

Application: ***steam boiler blowdown and waste water drainage***

Limiting conditions:

Max.operating pressure – 0.5 bar

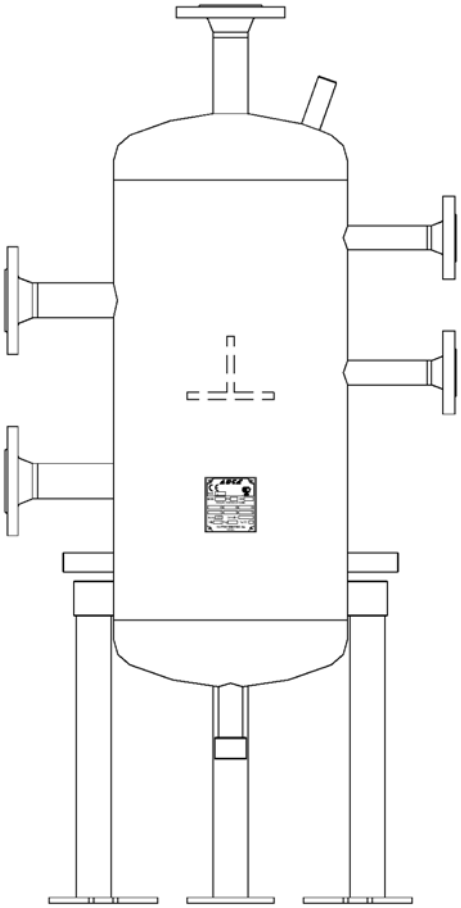
Max.operating temperature – 120 °C

Other pressures, temperatures and CE marking on request.

DESCRIPTION AND OPERATION

The Adca blowdown and cooling units are used in the modern boiler houses to cool hot waste water and steam boiler blowdown before to discharge into a pit or drain. The waste water is discharged into the unit which is at atmospheric pressure and the cooling water enters via a control valve controlled by a thermostat, mixing with the hot water .

If flash steam can not be recovered or discharged to atmosphere an additional condensing water spray system (optional) can be supplied . This one is fitted in the top of the unit and can be controlled directly either by another thermostat or the same command used for the automatic blowdown valve control .



MAIN FEATURES

Prevents thermal pollution
Overflow with siphon breaker
Easy to install
Reduces the flow of flash steam.

OPTIONS: Stainless steel construction.
Complete system including all the necessary equipments (stop and check valves, thermostats,exhaust head, etc)
Manifold with several inlets for multi-boiler installations.
Manhole or handhole for inspection.

USE: Boiler blowdown and hot waste water.

AVAILABLE MODELS: BEX30,40, 50, 60 and 80.

CONNECTIONS: Female screwed.
Flanged DIN or ANSI.
Different connections on request.

CONSTRUCTION: Carbon steel or stainless steel under request.

INSTALLATION: Vertical installation.
Final dimensions and connections according to the supplied drawing.
The inlet of blowdown tank is always higher than the boiler discharge valves. Therefore, the connecting pipe should have provisions made at a low point to drain the boiler.

LIMITING CONDITIONS: Max.operating pressure – 0.5 bar
Max.operating temperature – 120°C (Other conditions and CE marking on request).

DIMENSIONS

Model	A	B	d1	d2	d3	d4	d5 *	d6	d7	WEIGHT
BEX30	1245	312	40	40	40	25	25	G1"	G1/2"	**
BEX40	1275	355	50	50	50	25	25	G1"	G1/2"	**
BEX50	1430	455	80	50	80	25	25	G1"	G1/2"	**
BEX60	1930	455	100	65	100	25	25	G1"	G1/2"	**
BEX80	2260	550	150	100	150	40	40	G11/2"	G1/2"	**

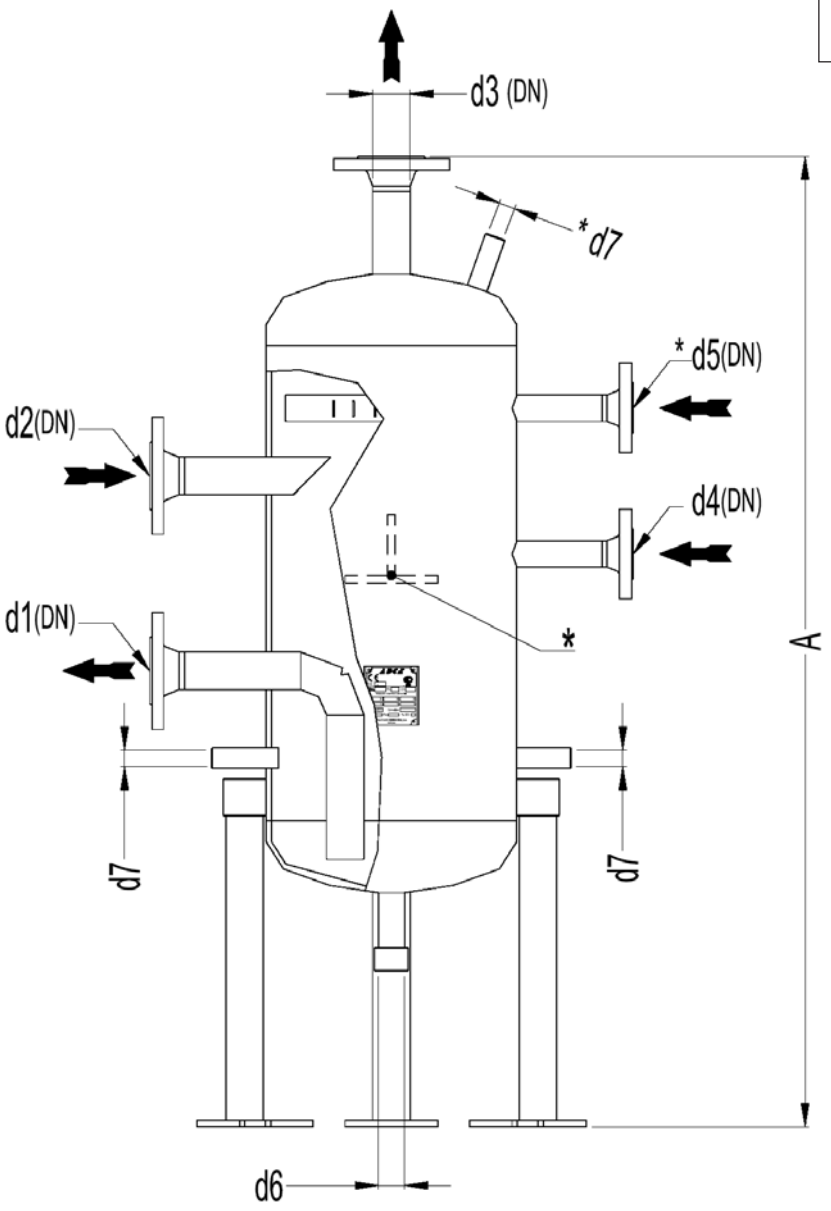
*Optional ; ** Weight to be confirmed .

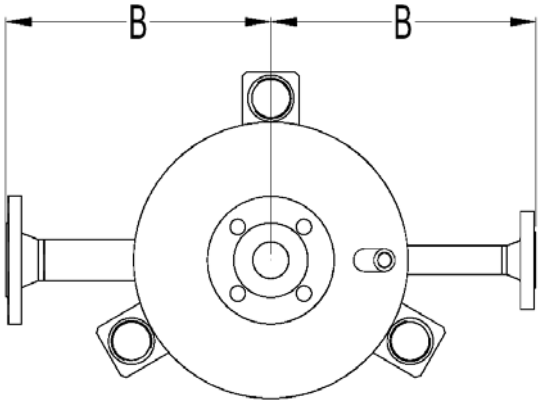
SELECTION TABLE

Hot water flow rate kgs/h	*300*	*600*	*1500*	*3000*	*5000*
Model	**BEX30**	**BEX40**	**BEX50**	**BEX60**	**BEX80**

CONNECTIONS

POS.	*DESIGNATION*	*Rating*
d1	Drain outlet	PN16
d2	Blowdown inlet	PN16
d3	Venting outlet	PN16
d4	Cooling water inlet	PN16
d5	Flash steam cooling water	PN16
d6	Drain	PN16
d7	Thermostat/thermometer connections	PN16





TYPICAL INSTALLATION