

BLOW-DOWN TANK

WITH OR WITHOUT ENERGY RECOVERY

HIGHLIGHTS

- **ENERGY RECOVERY**
by pre-heating of fresh feed water
(up to 4 kW at single-steam units)
- **NO FRESH WATER CONSUMPTION**
for cooling
- **LOW SEWAGE TEMPERATURE**
without formation of steam

DESIGN

The blow-down and continuous bleed away of initial condensate occurs into a half filled water tank. In an integrated heat exchanger the energy of the blown-down water and the initial condensate will be transferred to fresh feedwater. If the water in the tank exceeds a defined temperature, the water is retained. The blow-down tank without energy recovery has no hot water retainment and no heat exchanger.

WHY BLOWING DOWN?

With the evaporation of water, substances like salts or minerals are left behind in the boiler water, which doesn't vapourise into steam.

Thus the boiler water in the evaporation system continuously becomes enriched. This enriched boiler water must be blown down regularly in order to avoid corrosion and sedimentation in the steam system.

Initial condensate that is carried along with steam boiler water is filtered out at the first steam separator.

FUNCTION OF THE BLOW DOWN TANK / DECOMPRESSION TANK

Blow-down water and initial condensate is under pressure and is at high temperature. In the blow-down tank it is decompressed and cooled down before being led into the wastewater system.

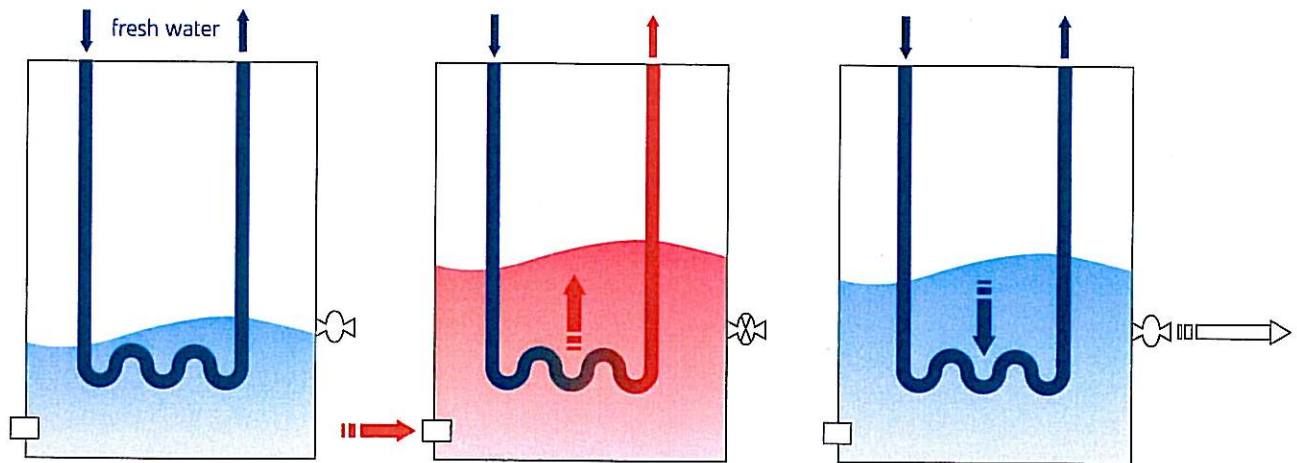
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CONSTRUCTION OF THE BLOW-DOWN TANK



INITIAL POSITION:

- Water outlet is cold
- Valve is open

DURING BLOW-DOWN:

- Water outlet gets hot
- Valve closes
- Water level rises

→ Feed water gets warmed up and cools down the water outlet

AFTER COOLING DOWN:

- Water outlet is cold
- Valve opens

→ Water drops to initial level

TECHNICAL DATA

Blow-down tank

Width	500 mm
Depth	650 mm
Height	1100 mm
Volumen	150 l
Mating dimensions blow down supply	1"
Breather pipe	2"
Fresh-water connection	1/2"
Drain	1"