



## AIR SEPARATOR

### GENERAL FEATURES

Oxygen inside the water, released when the temperature increases under the pressure. It creates air bubbles in the water.

Air bubbles causes corrosion in heating systems and all plumbing pipes leads to cavitation in pumps and installation. The bubbles adhering to heat transfer surfaces reduce the heat permeability and cause loss of efficiency. Causes failure in pumps and other armatures. It causes sounds in the installation pipes and especially in the radiators.

Air separator collects and puts out the air bubbles in the surface of the specially designed metal filter material. In this way, problems in intallation and heat transfer equipment are prevented and the system is run healthy.

#### Application Areas:

- Central and individual heating systems
- Air conditioning and cooling systems
- Underfloor heating systems

The working principle of air separators is based on the combination of several principles of physics. The active part consists of expanded stainless steel plate. These plates are placed radially in the body and create strong turbulence by cutting the water flow without any problems in circulation. Created turbulence changes in moving speed and pressure; this causes the release of micro-bubbles.

Due to the influence of molecular gravitational force, these microbubbles tend to accumulate on expanded metal surfaces.

Micro bubbles are collected in the air chamber in the upper section where the hydrostatic thrust on metal surfaces exceeds the bond strength to the metal structure. The volume of air regulated by the flotation activates the air exhaust valve and thus drain the unnecessary air.

**Note:** For the system to work efficiently and properly, it is necessary to use air eliminator.

#### Body

St 37.2 Carbon Steel

#### Air Separator

AISI 304 Stainless Steel

#### Max. Working Pressure

10 bar

#### Max. Working Temperature

100°C

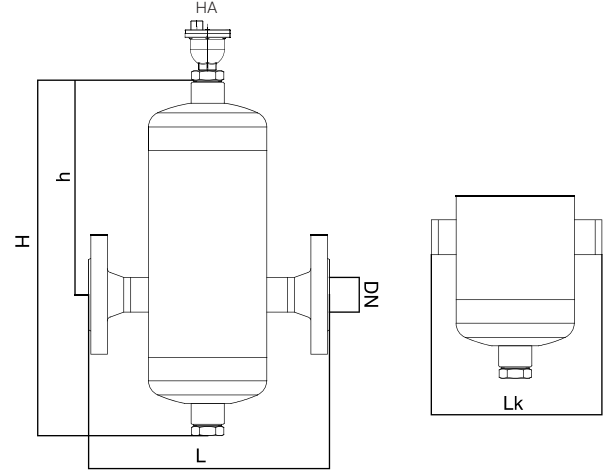
#### Connection

Threaded / Flanged

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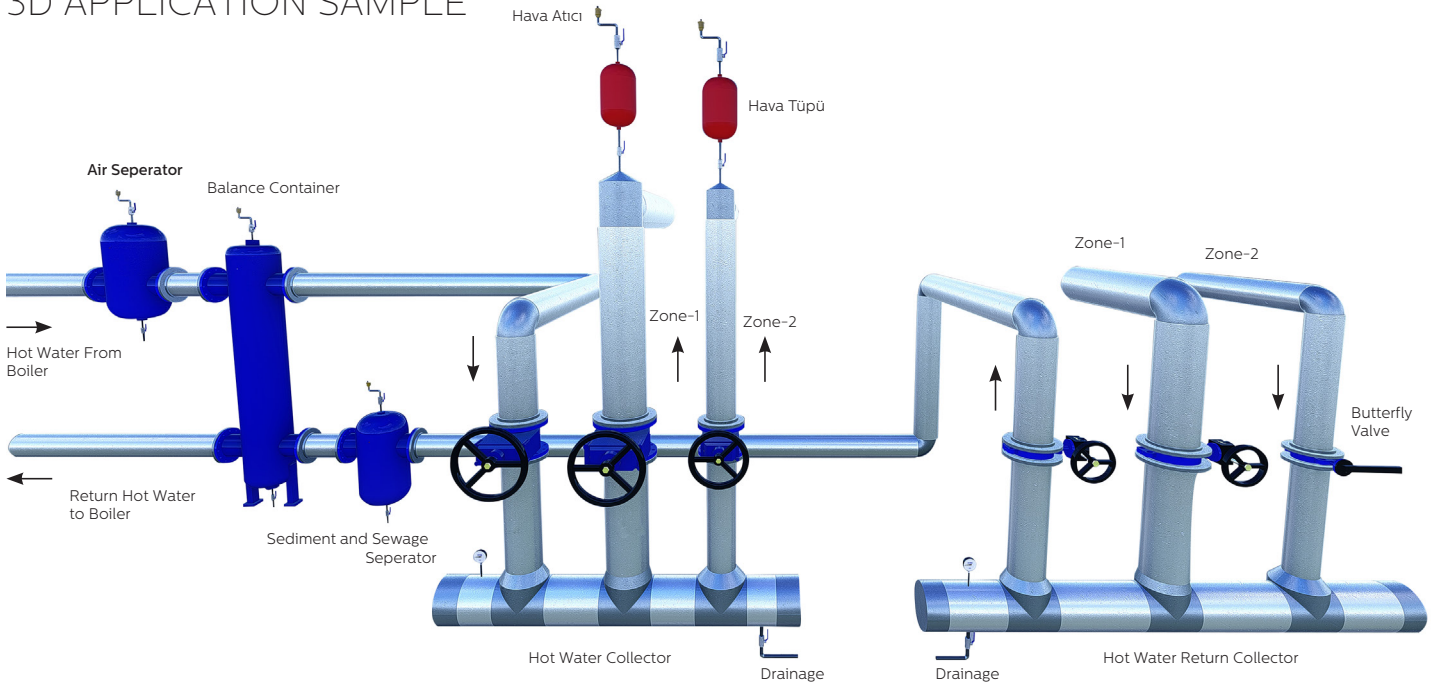
## TECHNICAL SPECIFICATIONS

DIMENSIONS(mm)					
DN	L	Lk	H	h	HA
65	300	280	475	330	1/2"
80	400	380	600	400	1/2"
100	400	380	600	400	1/2"
125	600	580	800	540	1/2"
150	600	580	800	540	1/2"
200	750	730	950	615	1/2"
250	850	830	1120	710	1/2"
300	950	1080	1350	915	1/2"
350	1100	1080	1500	1050	1/2"
400	1200	1180	1700	1225	1/2"



HA: AIR SEPERATOR

## 3D APPLICATION SAMPLE



Tesisattaki mevcut havanın, sisteme vereceği korozyon, kavitasyon, ses gibi zararları önlemek amacıyla kullanılır. Sıcak su hatlarında kazan çıkışına denge kabından önce konulur.

### Installation

Heating Systems : Boiler Output  
Cooling Systems : Chiller Inlet

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