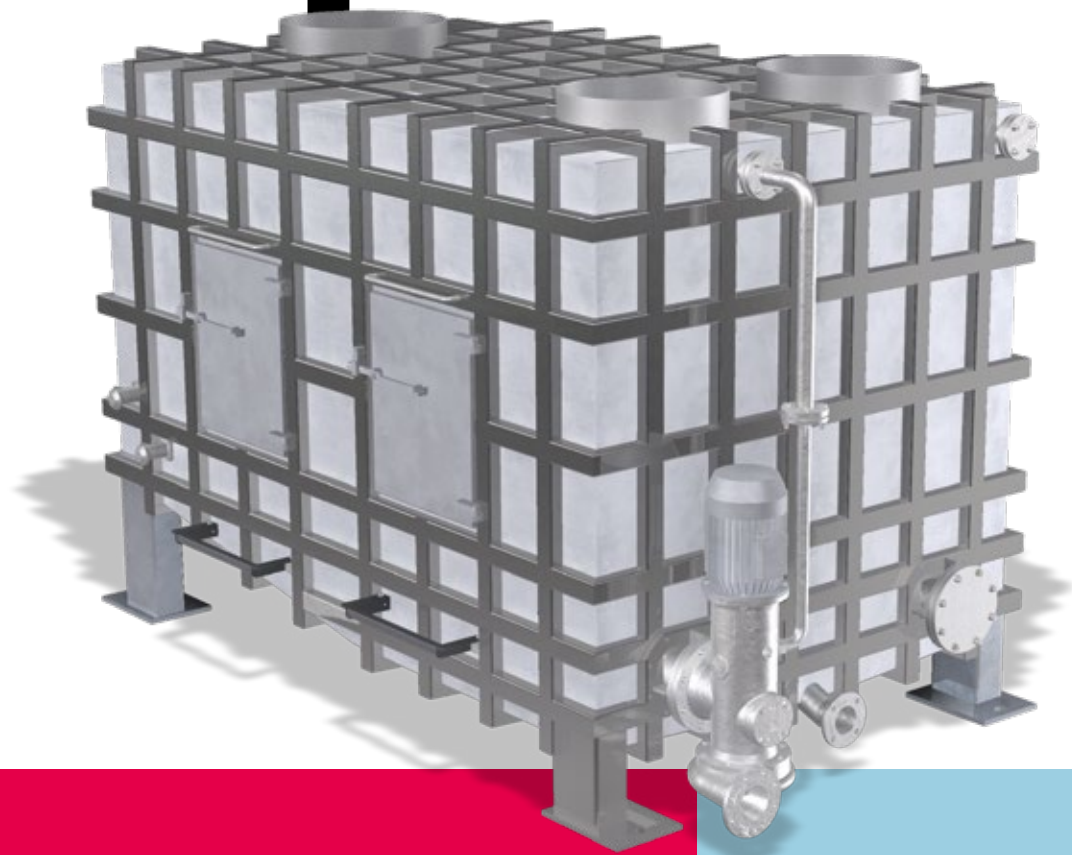


Water separator



State-of-the-art dewatering

Smart separation for high-performance papermaking.

Benefits at a glance

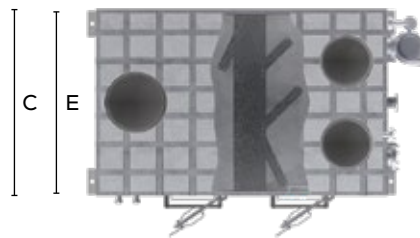
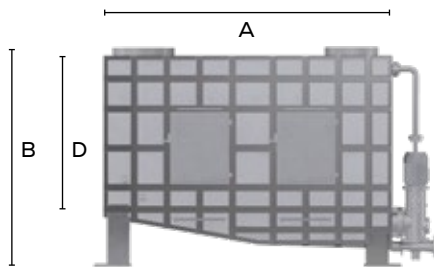
- Maximum efficiency and reliability
- High flexibility
- Noise insulation
- Spacious design
- Cost advantage
- Minimal cleaning effort

Water separator

TURBAIR®

Dimensions

Steel separator	XXS	XS	S	M	L	XL	XXL	Concrete separator
A (mm)	3,300	3,300	3,300	3,300	3,300	3,300	3,300	-
B (mm)	2,510	2,510	2,510	2,510	2,510	2,510	2,510	-
C (mm)	1,280	1,630	1,800	1,960	2,310	2,260	2,650	-
Baffle plate								
D (mm)	1,700	1,700	1,700	1,700	1,700	1,700	1,700	1,700
E (mm)	1,040	1,400	1,500	1,700	2,000	2,200	2,400	2,740
Output								
Air volume	XXS	XS	S	M	L	XL	XXL	Concrete separator
m ³ /min	240 - 300	300 - 430	430 - 490	490 - 550	550 - 675	675 - 730	730 - 800	800 - 920



Characteristics

Developed for dewatering paper, board and tissue machines, the water separator is a central component of TURBAIR® vacuum systems. Its key characteristics alongside reliability and peak efficiency are the ability to adapt flexibly to paper quality, paper speed, felt permeability and variable vacuum levels.



Four-stage separation process

- Inlet**
 The air mixed with water is directed against the separator wall. This process removes approximately 70 - 80 % of the water.
- Baffle plates**
 The remaining water droplets are removed using gravitational separation. Remaining particles are captured on the plates and run down to the bottom.
- Outlet nozzle**
 Redirecting the airflow before it enters the outlet pipe serves as an additional safeguard, capturing any remaining particles.
- Extraction pump**
 A non-clogging, self-regulating vertically mounted pump efficiently discharges water against atmospheric pressure.

Chamber construction

For new installations typically concrete type chambers are applied. The advantages include cost efficiency, noise insulation and reliability. When replacing existing vacuum systems with efficient TURBAIR® solutions, stainless steel chambers are also applied for their reduced installation times and compact design.

Maintenance and service

The easily accessible designed water separator chambers have a minimal cleaning effort. The cleaning can be easily performed using a standard high-pressure cleaner.

Contact

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