



PAQUES

ASTRASAND[®]COMPAQT

Reliable and efficient sand filtration

With the lowest up-front investment costs and lowest operating costs, the most economic and compact choice compared to any conventional sand filter.

*Hi, I'm Sandy.
I polish your
wastewater!*



revitalizing resources

Continuous sand filtration

ASTRASAND®COMPAQT is a new and improved continuous sand filter, developed for different types of water, such as process, waste, surface, cooling and ground water. **ASTRASAND®COMPAQT** works as a continuous process, in which the filter bed is cleaned during the filtration operation. Interruptions are eliminated through this continuous self-cleaning process.



ASTRASAND®COMPAQT Sand filter technology is proven and recognised worldwide as the most efficient way to clean or polish municipal and industrial wastewater.

The **ASTRASAND®COMPAQT** is a new development in the **ASTRASAND** product line and is designed by Paques to meet today's customer needs. With the benefit of over 35 years of experience and more than 3,500 installations in sand filtration, Paques has the ability to provide every industry or municipality with a tailor made sand filter system to precisely meet requirements.

About

ASTRASAND®COMPAQT

Lowest investment costs*

- 30% reduction in height
- Lower cost of ancillary materials
- Shortest lead time
- Flexible size range

Highly efficient, reliable system

- Better sand velocity distribution
- Low risk of plugging
- Worldwide proven filtration process
- Stable performance

Lowest operating costs*

- 20% lower energy consumption
- Reduced life cycle cost
- Chemical and corrosion resistant materials
- Lower maintenance costs
- Better carbon footprint

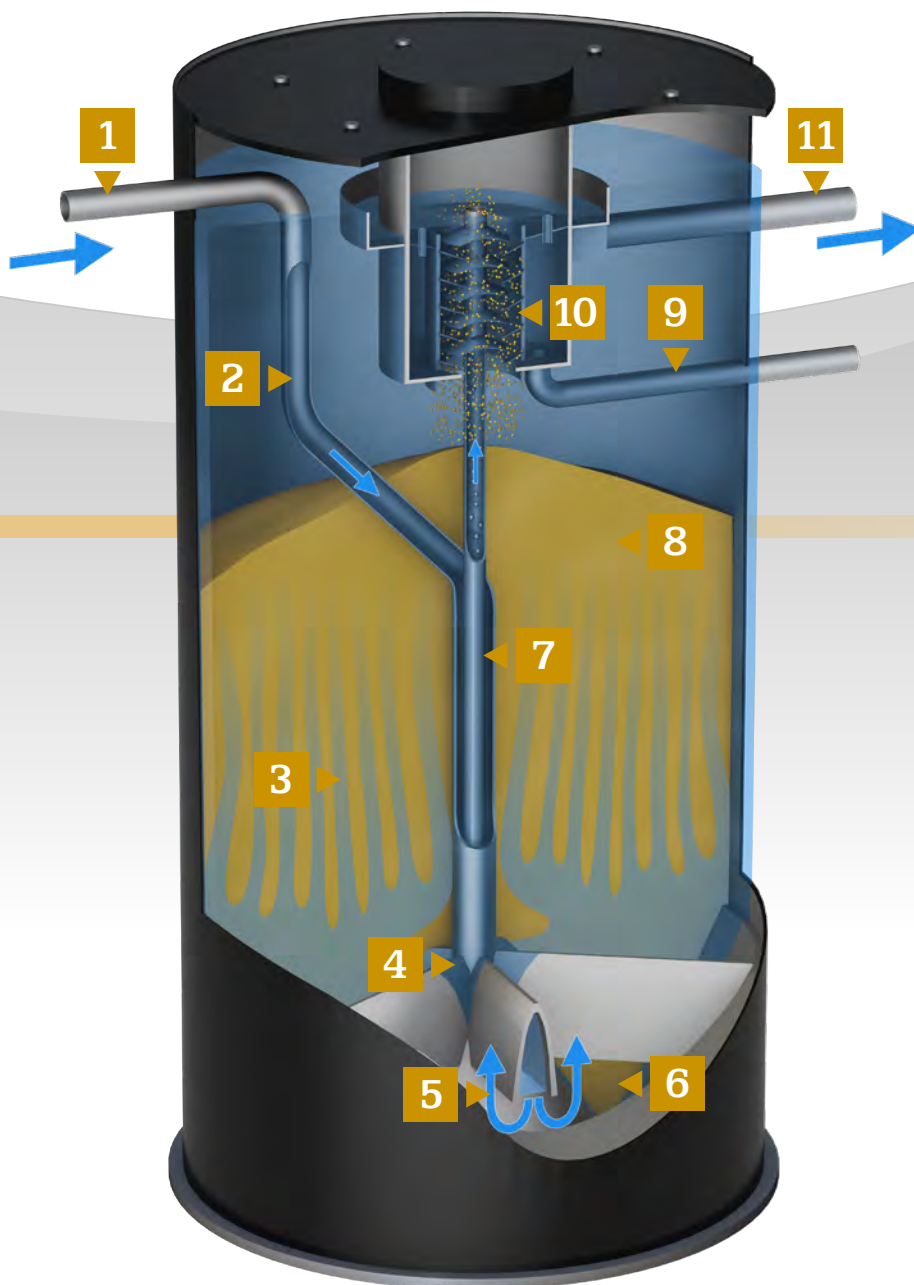
ASTRASAND®COMPAQT

Operation principle

ASTRASAND®COMPAQT Sand filtration is a proven filtration process that can be utilised for many types of wastewater, with unit capacity varying from only a few to several thousand m³/hour. It is a highly efficient and reliable system, which offers a short lead time and a better sand velocity distribution than conventional sand filters. With a non-metal tank and use of materials that are resistant to chemicals and corrosion it also offers lower operational and maintenance costs.

Characteristics of the **ASTRASAND®COMPAQT**

- Small footprint – easy to install in larger treatment systems
- Polishing of municipal and industrial waste water
- Reuse of water, in combination with polishing, membrane filtration and disinfection
- Direct filtration of surface water with in-line flocculation
- Aerobic biological purification of water, e.g. for MAC and PAC degradation
- Wash water treatment in drinking and process water production processes
- (Biological) side stream filtration of cooling water



ASTRASAND®COMPAQT, how it works

- 1** Dirty water feed pipe
- 2** Dirty water supply pipe
Dirty water enters the filter bed
- 3** Sand filter bed
Dirty water is purified as it flows through the filter in an upward direction
- 4** Multi pump distribution system
controlled sand distribution and circulation
- 5** Dirty water release
controlled dirty water release
- 6** Dirty sand extraction
Continued dirty sand extraction from the sand bed
- 7** Central circulation pipe
Airlift principle: forcing a mixture of dirty sand and water moving upward
- 8** Sand filter bed
The filter bed moves downward and washed sand is released back on top of the sand bed
- 9** Washwater discharge pipe
Washwater leaves the system
- 10** Sand washer
Final traces of pollutant are washed with small amount of filtrate
- 11** Clean water discharge pipe
Filtrate is discharged from upper part of the filter



Paques: leading in biological wastewater and gas treatment

PSNSFB FBST 1BFECFF E 5F CPHT QPDE C BUBESFBNU
 PSMDFBE DPQ E FMEP QBW DB CFTE BTFF FFSH CPMFST PS
 EFFMPBE IPDU PP DRFDE HT FHT FPES FBBSEST 5F
 Q SDBEBSBES BUBES BE FESMBE 1BFT BT CESFT BES
 HBTBTE PBU FCPDPMPH U QPDE MPDBET 3E B SBM
 PFS SFFSDF MMBET PSME SEB PMPNB B .BMBE 5BMBE
 1BFEMQE DP FT BE 7FENGEBEBEBE
 NQMET T DDFBUEFP E NKPS NPES DPST 1BFT T SFQFEE
 IBMMFFBESFDES BES BE MDFTE QSEST 5T FST PS MPDBM
 IBSCPPQE SFDMBMBCMF QTFDE E CFUTSDF PS PS DMFU
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