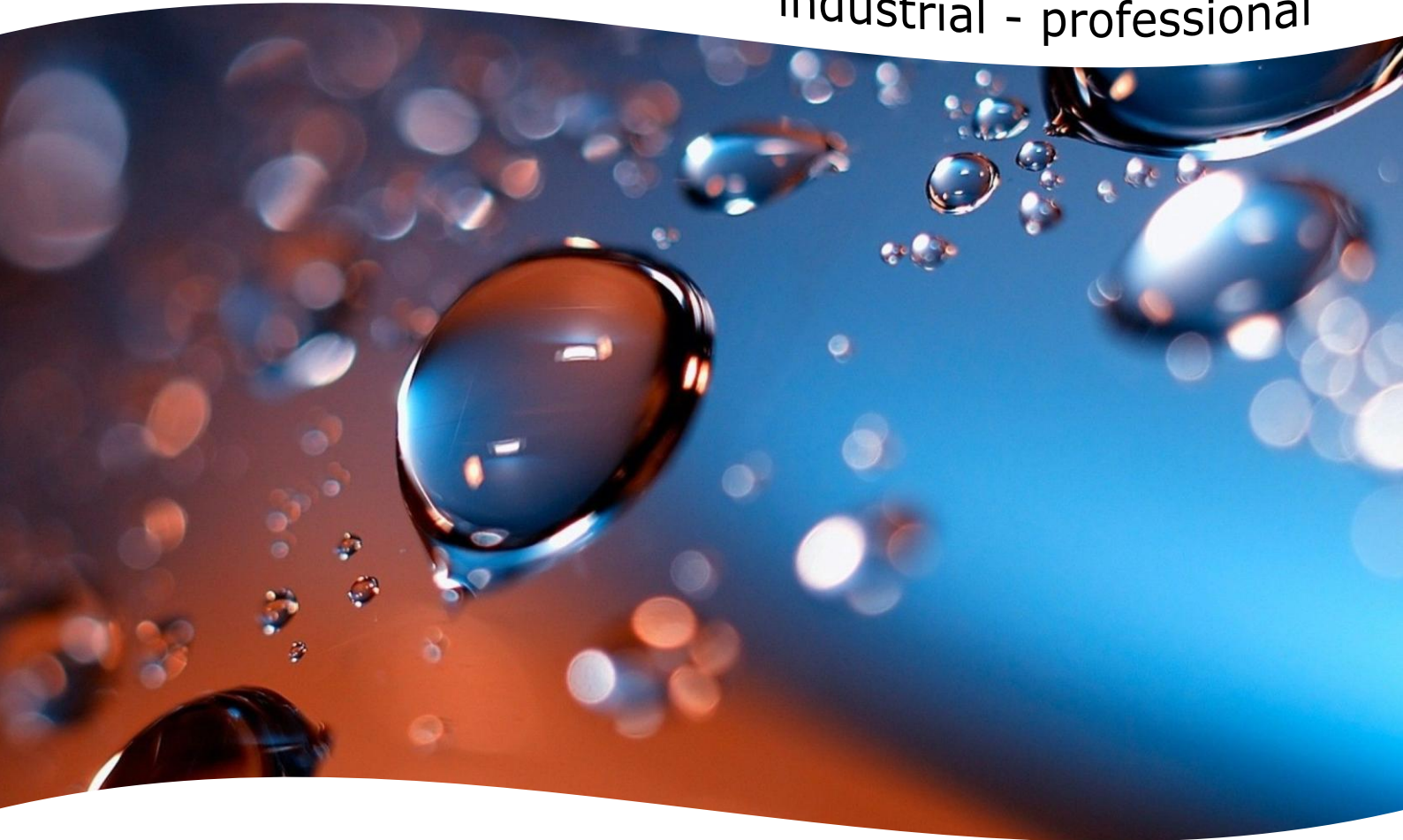


environmental protection

industrial - professional



product information
PITT-DAF 3.000...30.000
dissolved air flotation

The product

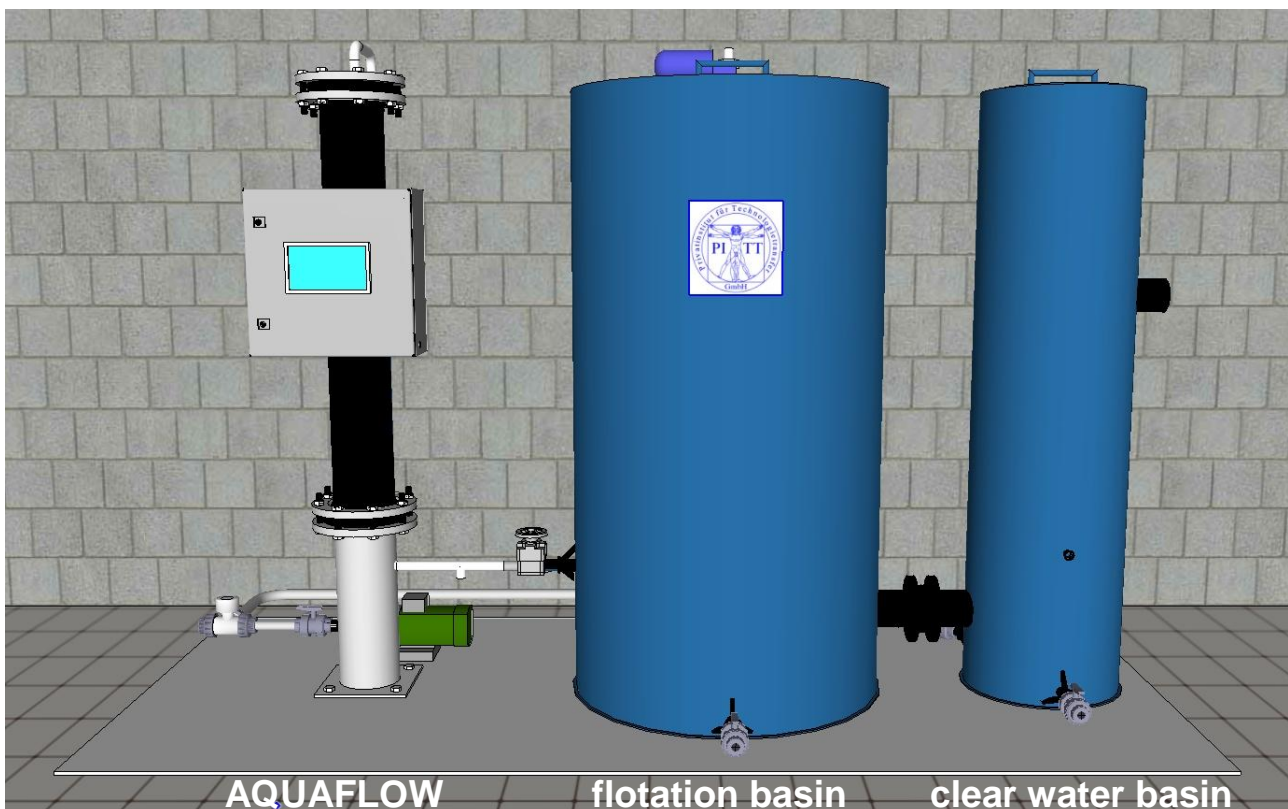
The **DAF** (dissolved air flotation) technology is a worldwide renowned system employed for the treatment and recycling of industrial waste water.

The dissolved air flotation process serves for separating the dispersed or suspended substances from the water. The **DAF** process uses air micro bubbles that adhere to the substances and transport them to the water surface. For splitting emulsions chemicals (flocculants, coagulants ...) are added.

The **PITT-DAF** provides for the following advantages over other technologies:

- The new **AQUAFLOW** technology increases the efficiency of the gas bubble spectrum by a multiple. The demand of power is clearly reduced.
- Due the full stream technology the complete water will be saturated with air and the chemicals work very effectively.
- The flocks are formed with saturated water. Thus, the air bubbles are inside the flocks, which are then discharged safely.
- Due to the turbulence mixing system of **AQUAFLOW** chemical metering can be done more accurately and economically. The consumption of chemicals is dramatically reduced.
- The air supply of **AQUAFLOW** works automatically and requires no electric sensors. This guarantees a nearly maintenance-free operation.
- Optimum and even flow conditions are achieved thanks to the round form of the central flotation basin.

The systems are manufactured from high quality and durable materials (mainly PE-100 with German DIBt approval).



The operation principle

A booster pump pumps the waste water to be treated into the **AQUAFLOW** where the water is compressed and fed through an atmosphere of compressed air into the mixing chamber.

The **AQUAFLOW's** air supply works automatically and requires no electric sensors. The **AQUAFLOW** ensures a reliable water-air mix and a constant saturation. Undesirable variations in the micro-bubble spectrum are avoided.

Due to the **AQUAFLOW** turbulence mixing system the chemical reaction time is reduced to a minimum as is the need for splitting chemicals.

The saturated and, if need be, chemically split water flows through the relief valve into the central flotation basin. Using a special, optimized streaming technology the agglomerate formed floats to the water surface.

An adjustable rotating scraper reliably discharges the concentrate out of the basin. The integrated torque regulation allows for minimizing the liquid share in the chemical concentrate and the operating costs.

The treated water flows into the level-controlled clear water basin where it can be reused or drained. Via a very special mechanical device the water level is optimally adjusted to the hydraulic and chemical conditions.

Technical data

Type	Treatment flow max. l/h	Working pressure bar	Required space about l x b x h	Electrical power kW
PITT-DAF 3.000	3.000	5,5	3,00 x 1,0 x 2,1	0,75
PITT-DAF 6.000	6.000	5,5	3,75 x 1,5 x 2,2	1,50
PITT-DAF 12.000	12.000	5,5	4,50 x 2,0 x 2,3	3,00
PITT-DAF 18.000	18.000	5,5	5,50 x 2,5 x 2,4	4,50
PITT-DAF 30.000	30.000	5,5	6,75 x 3,0 x 2,5	7,50

Attachments

For individual and optimal adaptation to the process we have in demand for the matching accessories.

The accessories will be offered exclusively by certified and renowned partners.



dosing pumps



compressed air systems



filter systems



sludge dewatering systems

Fields of application

- automotive industry
- biogas plants
- chemical industry
- fish farming
- food industry
- glass industry
- iron and steel industry
- petrol industry
- paper industry
- pharmaceutical industry
- recycling industry
- textile industry
- etc.

