

MEMBRANE FILTRATION

Ultra filtration plant UF

For treatment of oil-water emulsion and oil-containing waste water

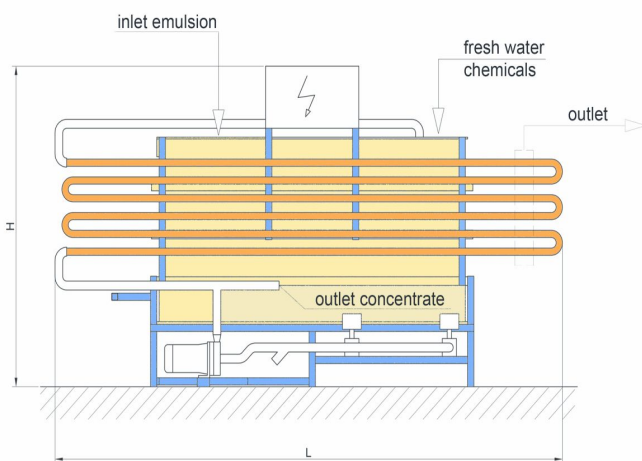


Range of application:

- ❖ Oil-in-water-emulsion (e.g. wash water)
- ❖ Cooling emulsions
- ❖ Condensate
- ❖ Dispersion
- ❖ Rinse water
- ❖ Degreasers

Technical information:

Dimensional sketch:



Process	Ultra filtration
Operation time	Continuous, 150 h / week
Max. Operating temperature	45 °C
Operating pressure	Approx. 4 bar
pH - range	2 – 13, by 40 °C
Oil content in waste water	Max. 20 g / l
Oil content in filtrate	Less than 20 mg / l
Resources	Tap-water for rinsing
Dimension (UFA-W-20 to 240)	3250 x 600 x 1800mm (l x w x h)
Dimension (UFA-W-300 to 360)	3250 x 800 x 1800mm (l x w x h)

Type	Capacity	El. connection	Diaphragms
UFA-W-20	20 l/h	3 kW	1 pcs.
UFA-W-40	40 l/h	3 kW	2 pcs.
UFA-W-60	60 l/h	3 kW	3 pcs.
UFA-W-80	80 l/h	3 kW	4 pcs.
UFA-W-100	100 l/h	3 kW	5 pcs.
UFA-W-120	120 l/h	3 kW	6 pcs.
UFA-W-160	160 l/h	5.5 kW	8 pcs.
UFA-W-200	200 l/h	5.5 kW	10 pcs.
UFA-W-240	240 l/h	5.5 kW	12 pcs.
UFA-W-300	300 l/h	7.5 kW	15 pcs.
UFA-W-360	360 l/h	7.5 kW	18 pcs.

Technical data subject to change



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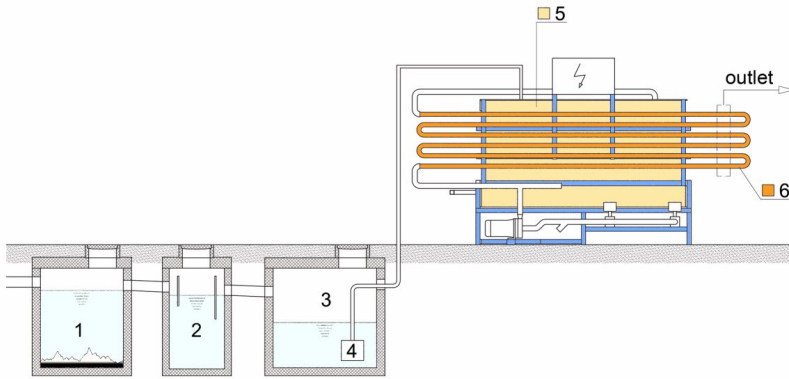


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Process description:



After pre-cleaning in the solid separator (1) and the mineral oil separator (2), the water is collected in the buffer tank (3).

The waste water is pumped into the work container (5) by a level-controlled submersible pump (4).

The waste water is pumped continuously through the modules (6) of the UF-plant. At the membranes of the modules the separation of the oil from the waste water takes place. The water steps through the membranes and is collected in the filtrate tube. The clear water flows from there into the drain.

The oil is held back and concentrated.

- | | |
|---------------------------|------------------------------|
| (1) Solid separator | (4) Submersible pump |
| (2) Mineral oil separator | (5) Work container |
| (3) Buffer tank | (6) Ultra filtration modules |

Delivery:

- | | |
|--|---|
| <input checked="" type="checkbox"/> UF-plant complete | <input checked="" type="checkbox"/> Level control appliance in the buffer tank complete with two float switches |
| <input checked="" type="checkbox"/> PLC control with display | |
| <input checked="" type="checkbox"/> Submersible pump with float switch | |

Further Products of AWATEC / FioTec:

- ❖ **CSA** Emulsion splitting plants from 80 – 4000 l / h
- ❖ **COLORSPLIT** waste water purification plants for colored waste water
- ❖ **NFA** Neutralization and flocculation plants for building site waste water
- ❖ **UF/NF/RO** Ultra- and Nano filtration, Reverse Osmosis plants
- ❖ **SEP** Mineral oil separator
- ❖ **AQUAMAX, AWAREX** Biological treatment plants (SBR)
- ❖ **CSS** Specific customized large and special waste water treatment plants

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