

Pallas[®] *Alfa*

A COMPACT & RELIABLE SOLUTION
FOR PROCESS WATER TREATMENT



Pallas[®]

Alfa

Pallas Alfa is a compact and reliable reverse osmosis unit for your process water treatment. Applied where other filtration systems become insufficient to achieve pure water for your needs. Pallas Alfa is **plug and play** and available in different flow rates.

Advantages

①

Convenience

- Compact and reliable water treatment system
- Easy to install, low maintenance
- Pure water with high recovery membranes, ...

②

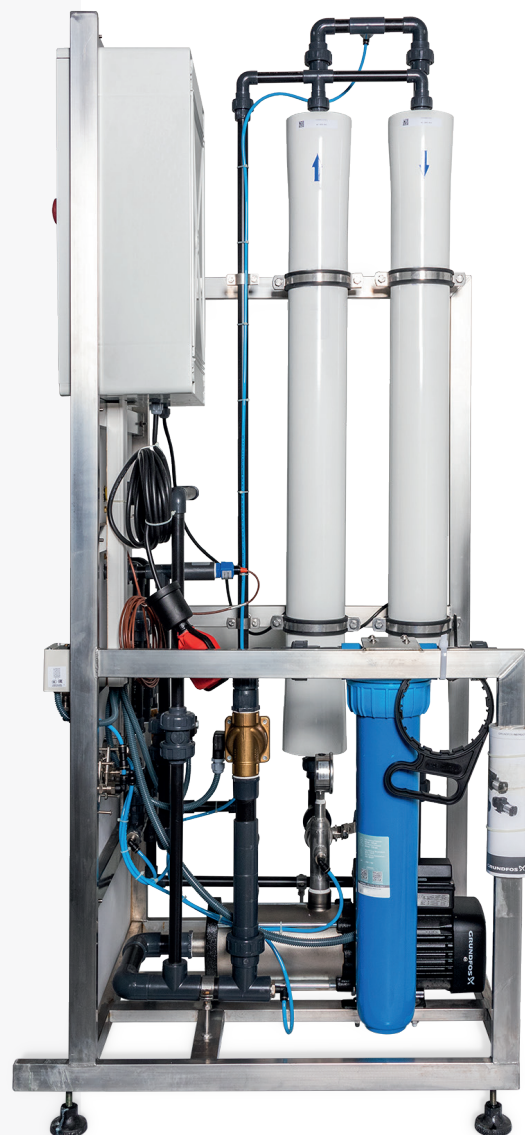
Quality

- AISI 304 Skid with FRP pressure vessels
- Grundfos pump
- Pollet Water Group in-house manufacturing

③

Availability

- Standard models available from stock
- Special models on demand



Pallas Alfa 240



Recommended Feed Water limits

Feed water TDS	0 - 1000 ppm
Feed water pressure	2 to 5 bar
Feed water Ph range	6 - 8
Silica (SiO ₂) tolerance	25 ppm max.
Min. - max. feed water temperature	10° C - 30° C
Max. Iron (Fe) tolerance	0,05 ppm (without ASC dosing) 0,2 ppm (with ASC dosing)

Features

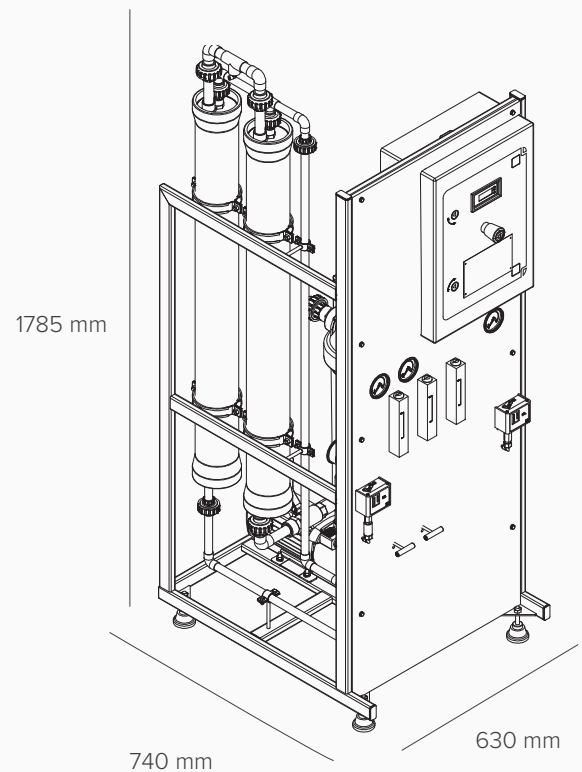
- Membrane vessels FRP
- TFC Spiral wound membranes
4" diameter
- SS304 stainless steel
- 5 micron cartridge filter
- Low and high pressure pipings U-PVC
- Solenoid automatic valves or
equivalent valve
- Pressure adjustment valves in
Pump outlet & drain line
- Low and high pressure switches
- Permeate and concentrate flowmeters
(rotameters)
- Recirculation flowmeters
- Product Water Conductivity Meter
- Autoflush System
- RO Electronic Control Card, Alarm &
Position Indicators
- 220 V/50Hz/1ph (ALFA 140 - ALFA 240)
- 380 V/50Hz/3ph (ALFA 440)
- Antiscalant dosage system is not included

Industrial solutions

- Water purification for
food & beverage
- Water treatment for
cooling towers, boilers & turbines
- Desalination of brackish water
- Deionized water for
pre-EDI at Laboratory
- Car wash, aquariums,
textile painting,

Dimensions

630 W x 1785 H x 740 D



Technical overview

MODEL	PALLAS ALFA 140	PALLAS ALFA 240	PALLAS ALFA 440
Permeate flow rate (l/h)*	250	500	1000
Max. feed water TDS (ppm)	1000	1000	1000
Feed water °C	15° C	15° C	15° C
Min. feed water pressure	2 bar	2 bar	2 bar
Recovery	75 %	75 %	75 %
Recirculation line	Yes	Yes	Yes
Auto flush	Yes	Yes	Yes
Skid material	SS 304 (not polished)	SS 304 (not polished)	SS 304 (not polished)
Controller	Micro processor	Micro processor	Micro processor
Pump	Grundfos CM 1-10 (single phase)	Grundfos CM 1-10 (single phase)	Grundfos CM 3-14 (tri phase)
Membranes	1 x LG BW 4040 UES	2 x LG BW 4040 UES	4 x LG BW 4040 UES
Flowmeters	3	3	3
Manometers	3	4	6
Low pressure switch	Yes (Danfoss) x 1	Yes (Danfoss) x 1	Yes (Danfoss) x 1
High pressure switch	Yes (Danfoss) x 1	Yes (Danfoss) x 1	Yes (Danfoss) x 1
Floater	Yes	Yes	Yes
Adjustable feet	Yes	Yes	Yes
Emergency stop	Yes	Yes	Yes
Wood cage	Yes included	Yes included	Yes included
AX nr	5113010062	5113010063	5113010064

* Depends on the feed water TDS, temperature, permeate recovery and membrane model.
We highly recommend to use softened water or to use ASC dosing to prevent against scalling/fouling.