

DULCO Clean UFDJ

Compact Ultrafiltration technology without compromise.



Performance-optimized Ultrafiltration unit with the functions of its larger siblings. It brings simplicity of plug & play installation and small space requirements due to the absence of a large backwash water tank and backwash pump.

Properties

- Compact unit and Plug & Play installation
- Regular backwash without backwash tank and pump
- Alkaline and Caustic chemical enhanced backwash
- Coagulant and sodium hypochlorite dosing proportionally to filtrate flow
- Flow measuring and logging
- Pressure, Transmembrane pressure, Flux and Permeability measuring and logging
- Temperature measuring with function of Permeability temp. correction
- 3,5" or 6" color touch screen
- Modbus TCP/IP
- Integrated Web Server and Cloud connection

Typical applications

- Microbiology barrier (99,99% víruses, 99,9999% germs)
- Turbidity removal (<0,2NTU into filtrate)
- Iron removal
- Arsenic removal
- RO and NF pretreatment
- Surface water treatment for technology or drinking water production for :
 - *Turistic resorts, Camps*
 - *Car-wash station*
 - *Small villages*
 - *Farms*
- Emergency drinking water supply
- Others

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Technical parameters

Type	UFDJ 4.4	UFDJ 4.6	UFDJ 6.4	UFDJ 6.6
Nominal capacity	960 l/h	1 560 l/h	1 560 l/h	2 160 l/h
Maximal capacity	1 320 l/h	2 160 l/h	1 980 l/h	3 240 l/h
Daily water production <i>* approx. 20 working hours per day</i>	Ø20 m ³ /day	30 m ³ /day	30 m ³ /day	40 m ³ /d
Recovery	92 ÷ 97% depend on feed water quality			
Germs and virus removal	log 6 Germs, log 4 viruses			
Filtration pore size	0,02 µm			
Number of filtration cartridges	4	4	6	6
Total filtration surface	16 m ²	24 m ²	24 m ²	36 m ²
Inner Cartridge type	dizzer P 4040-4.0	dizzer P 4040-6.0	dizzer P 4040-4.0	dizzer P 4040-6.0
Inner capillaries size <i>*Nominal / Peak</i>	MB 1,5mm	MB 0,9mm	MB 1,5mm	MB 0,9mm
Backwash flow rate	1 320 l/h ±10%	2 160 l/h ±10%	1 380 l/h ±10%	1920 l/h ±10%
Backwash water consumption	appr. 45÷100 l / BW			
Filtration cycle duration	45 ÷ 120 min			
Operation pressure	3 ÷ 6 bar			
Max. Operation temperature	40°C			
CEB dosing pumps (NaOH and H ₂ SO ₄)	2 * ProMinent BT4B 0708 PPT 3000 UA 100000			
Coagulant Dosing Pump (option)	ProMinent GMXa 1602 PVT 20000 UA 100000			
Second dosing pump (Option NaClO or ANTSC)	ProMinent GMXa 1602 PVT 70000 UA 100000			
Power supply	230VAC +/-10%			
Power consumption approx.	250W / 1200 W* <i>* Counted with feed pump consumption</i>			
Protection	IP 55			
Delivered certificates	CE, HY, ACS, NFS (for cartridge filters)			
Remote control	4 wire Control cable : Pause, Hysteresis of levels L-H			
	2x RJ45 connector for ethernet connection; Modbus TCP/IP			
Outputs	Common Alarm relay Output programable relay			
Hydraulic connection	Inlet : DN 25 Outlet : DN 25 Drain water : DN 20 CEB chemicals : 2x connector for hose 8x5mm PE <i>*PVC union for solvent cement jointing</i>			

Accessories

Coagulant and hypochlorite dosing pumps with suction and discharge accessories
 Mechanical prefilter with/without the automatic backwash function
 Self-priming feed pump; 230V ; 50Hz ; 910 W capacity 2160 l/h @ 3,5bar
 Control cables for dosing pumps, remote control an alarm with M12 connectors
 Coagulation reactor with static mixer
 Automatic neutralization unit