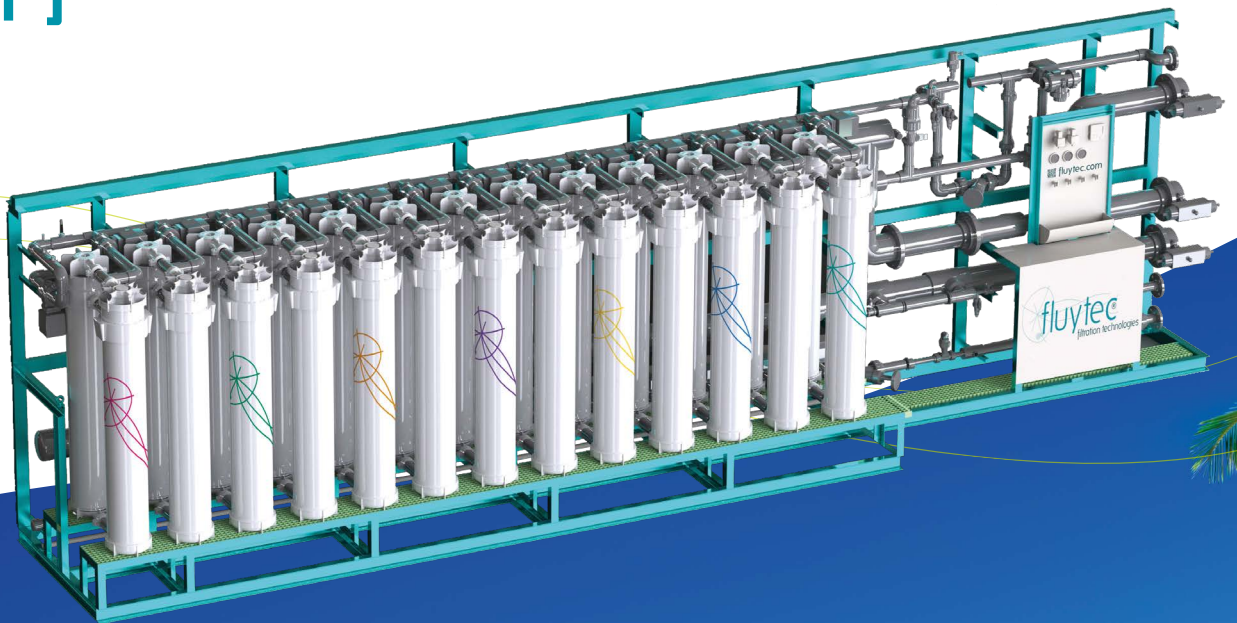


# Continuous UF [c-UF]



## INNOVATION



**CONTINUOUS PRODUCTION**  
Even During Cleanings



**LOWER FOOTPRINT (75%)**



**LOWER CAPITAL and  
OPERATIONAL EXPENDITURES**

## UF QUALITY

# Innovation

Fluytec has revolved around conventional Ultrafiltration technology in order to develop a new generation of UF, which is capable of granting a constant product flow even during cleanings (Backwash, Flushing, Rinsing and Chemically Enhanced Flushing).

This innovation eliminates the need for backwash pumps and blowers, buffer/backwash tanks and transfer pumps to the process located downstream (i.e. Reverse Osmosis).

This enables the user to take advantage of the following **main benefits**:



## CONTINUOUS PRODUCTION



Even during cleanings (Backwash, Flushing, Rinsing and Chemically Enhanced Flushing)

## LOWER FOOTPRINT



Up to 75%, due to the elimination of tanks, pumps, etc.

## CAPEX and OPEX REDUCTION



Thanks to the elimination of equipment, controls, terrain, etc.

# Technology Description

The c-UF technology achieves a **Continuous Permeate Production** by cleaning each UF module at a time. The **Upgraded Cleaning Sequence** devised by Fluytec consists of a combination of flushing, backwashing and rinsing phases, during which UF permeate flow is maintained constant.

Permeate flow remains constant even during the Chemically Enhanced Cleanings,

which is developed with no chemical leak to the permeate stream.

Fluytec manufactures c-UF units that are factory programmed and tested, ready to be interconnected and started up on site. Fluytec also offers c-UF units **Integrated in RO Systems**, mounted in a common skid or container.



# Product Quality

High quality permeate	<b>SDI15 &lt; 2.5</b>
Turbidity	<b>&lt; 0.2 NTU</b>
High bacterial rejection	<b>&gt; 9 log</b>
High virus rejection	<b>&gt; 5 log</b>

# Operating Parameters

Water recovery	<b>85 - 95%</b>
Transmembrane pressure	<b>0.2- 2 bar</b>
Operating pressure	<b>2 - 7 bar</b>
Backpressure	<b>&gt; 1.5 bar</b>



UF QUALITY Standards.

Higher PRODUCTION.

NON-STOP systems.

## c-UF Models

Model	c-UF4XS	c-UF4S	c-UF05	c-UF08
Production	1.0 - 5.0 m <sup>3</sup> /h	3.0 - 8.0 m <sup>3</sup> /h	8.0 - 30.0 m <sup>3</sup> /h	20.0 - 50.0 m <sup>3</sup> /h
No. of UF modules	4	4	5	8
Module model	FUM-012	FUM-020	FUM-060	FUM-060
Dimensions, mm (LxWxH)	2,850 x 850 x 1,850	3,420 x 945 x 1,850	5,090 x 970 x 2,280	4,880 x 1,355 x 2,280
<b>Connections</b>				
- Feed	d32 flange	d40 flange	d75 flange	d110 flange
- Product	d32 flange	d40 flange	d75 flange	d110 flange
- Waste	d32 flange	d40 flange	d75 flange	d110 flange

Model	c-UF14	c-UF20	c-UF26	c-UF40
Production	30 - 80 m <sup>3</sup> /h	50 - 110 m <sup>3</sup> /h	65 - 150 m <sup>3</sup> /h	100 - 240 m <sup>3</sup> /h
No. of UF modules	14	20	26	40
Module model	FUM-060	FUM-060	FUM-060	FUM-060
Dimensions, mm (LxWxH)	6,080 x 1,355 x 2,280	7,280 x 1,355 x 2,280	8,480 x 1,355 x 2,280	11,300 x 1,355 x 2,280
<b>Connections</b>				
- Feed	d125 flange	d140 flange	d160 flange	d225 flange
- Product	d125 flange	d140 flange	d160 flange	d225 flange
- Waste	d125 flange	d140 flange	d160 flange	d225 flange

The performance, flow per module, recovery and energy consumption depends in the raw water temperature and quality. Dedicated projections shall be developed in order to guarantee the performance of any given system.

## Typical Applications

The typical field of applications of the c-UF technology is focused in medium size flows and superficial waters:

- Desalination of sea or brackish waters, as a pre-treatment for RO technology.
- Reuse or conditioning of industrial water.
- Containerized plants.

## See the c-UF in action



c-UF, the IDEAL SOLUTION  
for limited footprints.

**PATENTED**



Subject to change without notice.

#### Other products in this range:

- i-UF (Integrated Ultrafiltration Systems)
- FTAUR series filters (Automatic Backwash Filters)
- Ultrafiltration Standard Systems
- ...

Fluytec solutions worldwide



Visit our Website for more information



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