



DEMINERALIZATION  
REVERSE OSMOSIS  
UNIT  
**CONDORDEMI 900**

WITH AN ATTENTIVE  
EYE TO NATURE





# DEMINERALIZATION REVERSE OSMOSIS UNIT CONDORDEMI 900 SERIES

## APPLICATIONS:

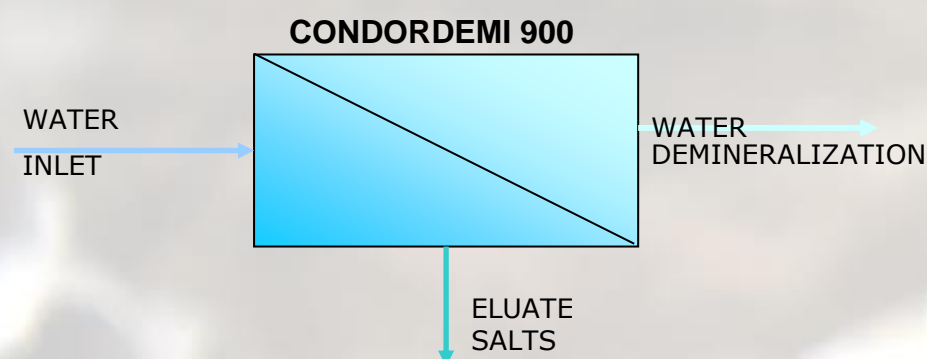
Process water demineralization

- Tap water
- Industrial water
- Superficial water

## ADVANTAGES:

- No waste to dispose
- No storage of harmful products such as hydrochloric acid and caustic soda

## WORKING CYCLES:



## MODELS CAPACITY:

Model	Delivery * (l/h)	Delivery	Absorbed power (kW/h)	Membrane surface (m2)
901.25	80-100	1000 X 900 X 1400h	0,75	2,1
902.25	160-200	1000 X 900 X 1400h	0,75	4,2
903.25	240-300	1000 X 900 X 1400h	0,75	6,3
904.25	620-400	1000 X 900 X 1400h	0,75	8,4
901.40	200-250	1200 X 1040 X 1400h	2,20	7,7
902.40	400-500	1200 X 1040 X 1400h	2,20	15,4
903.40	600-750	1200 X 1040 X 1400h	2,20	23,1
904.40	800-1000	1200 X 1040 X 1400h	3,00	30,8
902.80	1800-2000	4000 X 1400 X 1800h	8,00	80
903.80	2800-3000	4000 X 1400 X 1800h	8,00	120
904.80	3700-4000	4000 X 1400 X 1800h	8,00	160
906.80	5500-6000	4000 X 1400 X 1800h	9,00	240
912.80	11000-12000	8000 X 1800 X 2000h	14,0	480
918.80	16500-18000	8000 X 1800 X 2000h	14,0	720
924.80	22000-24000	8000 X 2000 X 2200h	20,0	960
936.80	33000-36000	8000 X 2000 X 2200h	20,0	1440
948.80	44000-48000	8000 X 2200 X 2200h	20,0	1920

## OPTIONS

### PREFEEDING PUMP

When tap water pressure is lower than 3 bar, it must be increased by a pre feeding pump.



### MULTIMEDIA FILTER

Quartzite/carbon filter to separate eventual suspended solids in the solution which could condition the good membrane working.

Such filter can be complete of deferrization material according to water characteristics.

### ACTIVE CARBON FILTERS

Tap water generally contain chlorine at high concentration, detrimental to the membranes. The inconvenience can be overcome by active carbon filters on the demineralization line to eliminate the eventual presence of organic compounds.



### ANTIFOULING AGENT

In case of high water hardness or high silica content, antifouling agents must be added that allow to avoid the formation of fouling precipitates.

As alternative, a softener can be installed to reduce the water fraction to dump.

### AUTOMATIC WASHING

For lower flow rate plants, an automatic washing cycle is proposed as optional (for plants with a flow rate starting from 2.000 l/h it comes in series).



### DETERGENT PREPARATION STATION

For the automatic preparation of the washing station.

### REGULATION DEVICE FOR THE DEMI WATER

Where a storage unit for demi water is needed.

### CORRECTION UNIT OF THE INLET pH

It helps avoiding fouling and precipitation of incrustating salts.

### CORRECTION UNIT OF THE OUTLET pH

Only in case the outlet values are too low

### OXIDATION GROUP

In case of waters which are contaminated by organic substances, ig. superficial waters, it is good rule to have an oxidation station with hypochlorite followed by an active carbon filtration which destroys the excess of hypochlorite

### STORAGE STATIONS FOR THE REACTIVES

Generally the metering pumps of the reactives take the products from the containers where they are supplied. In alternative, storage tanks connected to the metering pump are proposed, equipped with level control and loading system.



### REGULATION DEVICE FOR THE DEMI WATER FLOW RATE

In plants of a certain importance, a control of the produced demi water flow is proposed. This acts by automatically regulating the membranes productivity on proper modulating valves.

### CONTROL DEVICE OF THE PERMEATE CONDUCTIVITY

This is a conductimeter assuring that quality of the produced demi water has always the required characteristics.

### BLENDED DEVICE

Metering of saline solution for water remineralisation.