



# PureCleer

INDUSTRIAL REVERSE OSMOSIS

PRO SERIES







IFS COMPACT SEA WATER SERIES





## 1. CONTROL BOX AND CONNECTIONS FOR MARINE OR HIGH SALINITY ENVIRONMENT

Contains the electronic and electrical controllers.

## 2. HYDRAULIC SAFETY CIRCUIT

Product water circuit built in materials approved for food use. Up to 7 bars of working pressure.

## 3. COMPLETE HYDRAULIC PANEL

Control gauges in stainless steel with glycerin bath. Easy-to-read rotameters for the measurement of product and reject flows. Fine adjustment valve for working pressure.

## 4. ELECTRONIC CONTROL SYSTEM

Frequency variator device to control the high pressure motor pump. Avoids current overconsumption by soft starting the pump, avoiding overloads in the electrical network. The system allows precise adjustment of the high pressure pump speed and protects the desalination equipment components against mechanical shocks and sudden changes in pressure. The operating data of the motor pump, as well as the current and voltage consumption can be read on the electronic display.

## 5. INTEGRAL CONTROL AUTOMATION

Control of the operating parameters of the equipment and external failures such as lack of water at the inlet. The electronic display indicates the quality of the product water, equipment operating phases, accumulated hours since the first start-up and both external and internal anomalies. The system includes pre-installation for a bottle-type washable filter.

## 6. HIGH RESISTANCE STAINLESS STEEL CHASSIS

Made of fibreglass reinforced polyester.

## 7. LASTEST GENERATION MEMBRANES

Membrane/container assembly that facilitates equipment maintenance. With high rejection of salts and a larger membrane surface, they guarantee quality water and durability and contribute to lower energy consumption of the equipment.

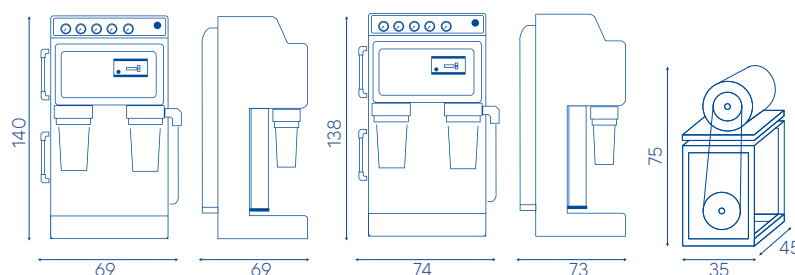
## 8. CONTINUOUS HEAVY DUTY MOTOR PUMP

A high-performance motor contributes to the low consumption of the equipment and complies with the European regulations for high-performance engines. Volumetric type pump built in stainless steel 316 and ultra-low-wear ceramic plungers. Includes elastic anti-vibration and pulsation dampers.

(1) +/- 10% at start-up with the maximum salinity indicated (in NaCl) in the table, 20 °C temperature, pH 7 and 50% recovery. The production decreases with a higher amount of dissolved solids or with a lower temperature and vice versa. The performance of the equipment is calculated with a temperature of the water to be treated of 20 °C.



EQUIPMENT MODEL	IFS 30	IFS 55	IFS 85	IFS 100	IFS 125	IFS 150
REFERENCE CODE	232669	796225	232670	232671	232672	232673
PRODUCTION CAPACITY LITRES PER DAY	3000	5500	8500	10000	12500	15000
PRODUCTION CAPACITY LITRES PER HOUR	125	230	355	415	520	625
NUMBER OF MEMBRANES	1	2	3	4	5	6
MODEL OF MEMBRANES	4040	4040	4040	4040	4040	4040
MEDIUM SALT REJECTION (%) UNTIL (1)	99	99	99	99	99	99
MAX SALINITY RECOMMENDED IN INLET WATER (PPM)	35000	35000	35000	35000	35000	35000
RATIO OF WATER PRODUCED / REJECTED WATER	ADJUSTABLE UP TO 40%	ADJUSTABLE UP TO 40%	ADJUSTABLE UP TO 40%	ADJUSTABLE UP TO 40%	ADJUSTABLE UP TO 40%	ADJUSTABLE UP TO 40%
MAX. WORKING PRESSURE (KG/CM <sup>2</sup> )	55	55	55	55	55	55
MIN. INLET PRESSURE DYNAMIC (KG/CM <sup>2</sup> )	2	2	2	2	2	2
INLET WATER TEMPERATURE (MIN.-MAX. IN °C)	3-35	3-35	3-35	3-35	3-35	3-35
INLET PH	3-11	3-11	3-11	3-11	3-11	3-11
INLET MAXIMUM LEVEL OF CHLORINE (PPM)	<0,1	<0,1	<0,1	<0,1	<0,1	<0,1
INSTALLED POWER (KW)	2'2	3	4	4	4	4
POWER SUPPLY (50 Hz SINGLE PHASE)	II 220 III 220-380V	II 220 III 220-380V	III 220-380V	III 220-380V	III 220-380V	III 220-380V
ELECTRONIC CONTROL IN HIGH PRESSURE PUMP	SI	SI	SI	SI	SI	SI
INLET CONECTION (MM PUSH IN)	1"	1"	1"	1"	1"	1"
PRODUCT CONNECTION (MM PUSH IN)	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"
REJECT CONNECTION (MM PUSH IN)	1/2"	1/2"	1/2"	1/2"	1"	1"
DIMENSIONS HEIGHT x WIDTH x DEPTH (CM)	140x69x69	140x69x69	138x74x76	138x74x76	138x74x76	138x74x76



EQUIPMENT MODEL	IFS 175	IFS 200	IFS 250	IFS 300
REFERENCE CODE	232674	232675	232676	232677
PRODUCTION CAPACITY LITRES PER DAY	17500	20000	25000	30000
PRODUCTION CAPACITY LITRES PER HOUR	730	835	1045	1250
NUMBER OF MEMBRANES	7	8	10	12
MODEL OF MEMBRANES	4040	4040	4040	4040
MEDIUM SALT REJECTION (%) UNTIL (1)	99	99	99	99
MAX SALINITY RECOMMENDED IN INLET WATER (PPM)	35000	35000	35000	35000
RATIO OF WATER PRODUCED / REJECTED WATER	ADJUSTABLE UP TO 40%	ADJUSTABLE UP TO 40%	ADJUSTABLE UP TO 40%	ADJUSTABLE UP TO 40%
MAX. WORKING PRESSURE (KG/CM2)	31	31	31	31
MIN. INLET PRESSURE DYNAMIC (KG/CM2)	2	2	2	2
INLET WATER TEMPERATURE (MIN.-MAX. IN °C)	3-35	3-35	3-35	3-35
INLET PH	3-11	3-11	3-11	3-11
INLET MAXIMUM LEVEL OF CHLORINE (PPM)	<0,1	<0,1	<0,1	<0,1
INSTALLED POWER (KW)	5,5	5,5	7,5	7,5
POWER SUPPLY (50 Hz SINGLE PHASE)	III 220-380V	III 220-380V	III 220-380V	III 220-380V
ELECTRONIC CONTROL IN HIGH PRESSURE PUMP	SÍ	SÍ	SÍ	SÍ
INLET CONECTION (MM PUSH IN)	1"	1"	1"	1"
PRODUCT CONNECTION (MM PUSH IN)	1"	1"	1"	1"
REJECT CONNECTION (MM PUSH IN)	1"	1"	1"	1"
DIMENSIONS HEIGHT x WIDTH x DEPTH (CM)	138x74x76	138x74x76	138x74x76	138x74x76
PUMP DIMENSIONS WIDTH x DEPTH (CM)	75x35x45			

