
PureCleer
INDUSTRIAL REVERSE OSMOSIS
PRO SERIES


PC SERIES

1. ELECTRONIC CONTROL PANEL

The electronic PLC controls the operating parameters of the equipment and the start or stop depending on the water needs and automatic membrane flushing cycles.
The integrated electronic display indicates the operating phases of the equipment and external and internal anomalies, including:
- Full product water tank indicator.
- Membrane self-flushing in progress indicator
- Pre-installation for bottle-type washable filter.
- Safety shutdown due to water failure at the inlet.
- Operating hours counter.

2. AUTOMATIC INTERNAL SELF-CLEANING

Flushing type washing system with mains water that is activated periodically each time the equipment stops.

3. AUTOMATIC PRESSURE REGULATOR

Innovative system that maintains the adjusted working pressure regardless of the inlet pressure.

4. ADJUSTABLE WATER CONVERSION

Integrated adjustment system for the percentage of water conversion to optimize consumption and energy expenditure.

5. HIGH PERFORMANCE PUMP

Medium pressure pump with special construction specification. Stainless steel body with magnetic drive to prevent liquid loss. No rotating element is in contact with the atmosphere.

6. HYDRAULIC PANEL

With pressure gauges to control working pressures.

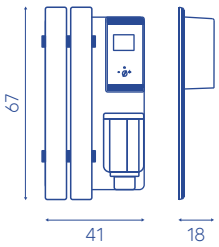
7. AUTOMATIC/MANUAL START/STOP SYSTEM

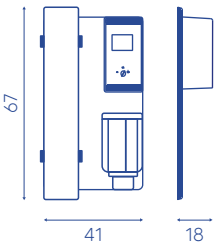
Level switch included in the supply.

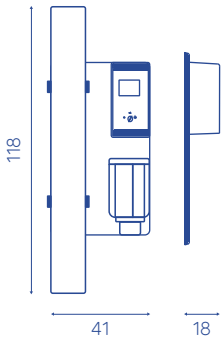
8. LATEST GENERATION TORAY MEMBRANES

Membrane/container assembly for easy maintenance. Low working pressure and low electricity consumption. High rejection of salts.

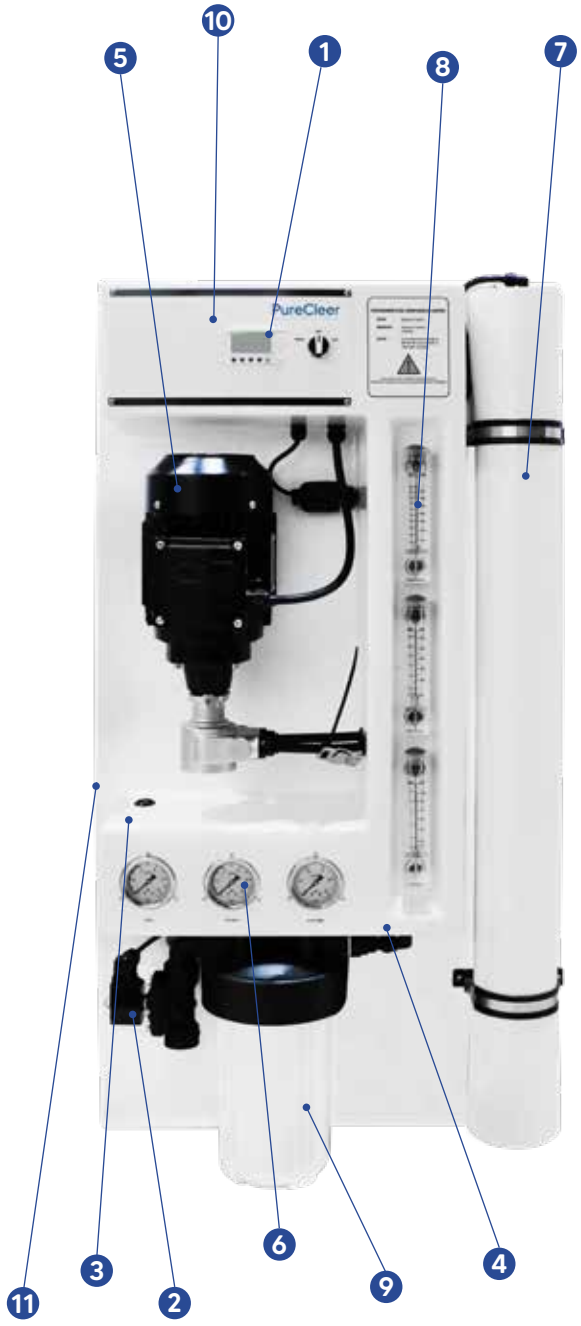
(1) +/- 10% at start-up with the maximum salinity indicated (in NaCL) in the table, 20 °C temperature, pH 7 and 50% recovery. The production decreases with a higher amount of dissolved solids or with a lower temperature and vice versa. The performance of the equipment is calculated with a temperature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







EQUIPMENT MODEL	PCQ HL-50	PCQ HL-95	PCQ HL-125	PCQ L-50	PCQ L-95	PCQ L-125
REFERENCE CODE	**232600**	**232602**	**232604**	**232601**	**232603**	**232605**
PRODUCTION CAPACITY LITRES PER DAY	1200	2280	3000	1200	2300	3000
PRODUCTION CAPACITY LITRES PER HOUR	50	95	125	50	95	125
NUMBER OF MEMBRANES	2	1	1	2	1	1
MODEL OF MEMBRANES	2521	4021	4040	2521	4021	4040
MEDIUM SALT REJECTION (%) UNTIL (1)	99	99	99	99	99	99
MAX SALINITY RECOMMENDED IN INLET WATER (PPM)	3500	3500	3500	6000	6000	6000
RECOVERY PERCENTAGE	ADJUSTABLE UP TO 50%	ADJUSTABLE UP TO 50%	ADJUSTABLE UP TO 50%	ADJUSTABLE UP TO 50%	ADJUSTABLE UP TO 50%	ADJUSTABLE UP TO 50%
MAX. WORKING PRESSURE (KG/CM2)	14	14	14	18	18	18
MIN. INLET PRESSURE DYNAMIC (KG/CM2)	1	1	1	1	1	1
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)	0,37	0,37	0,37	0,37	0,37	0,37
POWER SUPPLY (50 Hz SINGLE PHASE)	II 220V	II 220V	II 220V	II 220V	II 220V	II 220V
ELECTRONIC CONTROL IN HIGH PRESSURE PUMP	NO	NO	NO	NO	NO	NO
INLET CONECTION (MM PUSH IN)	8	12	12	8	12	12
PRODUCT CONNECTION (MM PUSH IN)	8	12	12	8	12	12
REJECT CONNECTION (MM PUSH IN)	8	12	12	8	12	12
DIMENSIONS HEIGHT x WIDTH x DEPTH (CM)	67x41x18	67x41x18	118x41x18	67x41x18	67x41x18	118x41x18



1. ELECTRONIC CONTROL PANEL

The electronic PLC controls the operating parameters of the equipment and the start or stop depending on the water needs and automatic membrane flushing cycles. The integrated electronic display indicates the operating phases of the equipment and external and internal anomalies, including:
- Full product water tank indicator.
- Membrane self-flushing in progress indicator
- Pre-installation for bottle-type washable filter.
- Safety shutdown due to water failure at the inlet.
- Operating hours counter.

2. AUTOMATIC INTERNAL SELF-FLUSHING

Flushing type washing system with mains water that is activated periodically each time the equipment stops.

3. AUTOMATIC PRESSURE REGULATOR

Innovative system that maintains the adjusted working pressure regardless of the inlet pressure.

4. ADJUSTABLE WATER CONVERSION

Integrated water conversion percentage adjustment system to optimize the quality of permeated water, consumption and energy expenditure.

5. HIGH PERFORMANCE PUMP

Medium pressure pump with special construction specification. Stainless steel body.

6. HYDRAULIC PANEL

With pressure gauges to control working pressures.

7. AUTOMATIC/MANUAL START/STOP SYSTEM

Level switch included in the supply.

8. LASTEST GENERATION TORAY MEMBRANES

Membrane/container assembly that facilitates maintenance. Low working pressure and low electricity consumption. High rejection of salts.

9. SECURITY FILTRATION

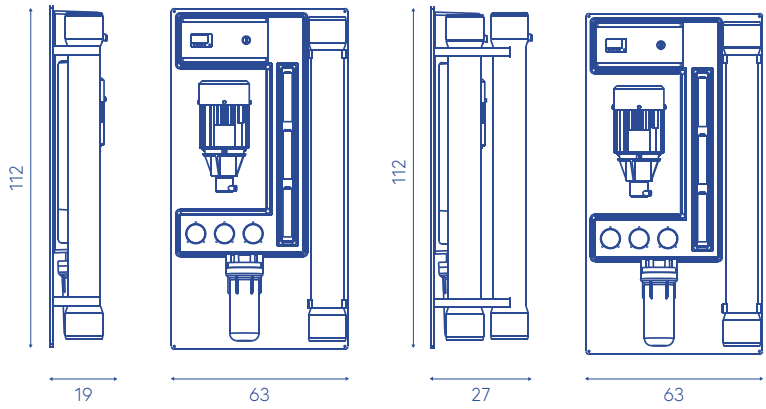
Great capacity. 1 micron pleated filter.

10. 10. PRODUCT WATER CONDUCTIVITY METER (OPTIONAL)

11. FLUSHING SYSTEM (OPTIONAL)

With osmosis water.

(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	PCB HL-175	PCB HL-350	PCB L-175	PCB L-350
REFERENCE CODE	**232606**	**232608**	**232607**	**232609**
PRODUCTION CAPACITY LITRES PER DAY	4200	8400	4200	8400
PRODUCTION CAPACITY LITRES PER HOUR	175	350	175	350
NUMBER OF MEMBRANES	1	2	1	2
MODEL OF MEMBRANES	4040	4040	4040	4040
MEDIUM SALT REJECTION (%) UNTIL (1)	99	99	99	99
MAX SALINITY RECOMMENDED IN INLET WATER (PPM)	3500	3500	6000	6000
RECOVERY PERCENTAGE	ADJUSTABLE UP TO 75%	ADJUSTABLE UP TO 75%	ADJUSTABLE UP TO 75%	ADJUSTABLE UP TO 75%
MAX. WORKING PRESSURE (KG/CM2)	14	14	18	18
MIN. INLET PRESSURE DYNAMIC (KG/CM2)	1	1	1	1
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)	0,75	0,75	1,1	1,1
POWER SUPPLY (50 Hz SINGLE PHASE)	III 220-380V II 220V (OPCIONAL)	III 220-380V II 220V (OPCIONAL)	III 220-380V	III 220-380V
ELECTRONIC CONTROL IN HIGH PRESSURE PUMP	NO	NO	NO	NO
INLET CONECTION (MM PUSH IN)	1" BSP FEMALE	1" BSP FEMALE	1" BSP FEMALE	1" BSP FEMALE
PRODUCT CONNECTION (MM PUSH IN)	12	12	12	12
REJECT CONNECTION (MM PUSH IN)	12	12	12	12
DIMENSIONS HEIGHT x WIDTH x DEPTH (CM)	112x19x63	112x27x63	112x19x63	112x27x63

1. ELECTRONIC CONTROL PANEL

The electronic PLC controls the operating parameters of the equipment and the start or stop depending on the water needs and automatic membrane flushing cycles. The integrated electronic display indicates the operating phases of the equipment and external and internal anomalies, including:
- Full product water tank indicator.
- Membrane self-flushing in progress indicator
- Pre-installation for bottle-type washable filter.
- Safety shutdown due to water failure at the inlet.
- Operating hours counter.

2. AUTOMATIC INTERNAL SELF-FLUSHING

Flushing type washing system with mains water that is activated periodically each time the equipment stops.

3. AUTOMATIC PRESSURE REGULATOR

Innovative system that maintains the adjusted working pressure regardless of the inlet pressure.

4. ADJUSTABLE WATER CONVERSION

Integrated water conversion percentage adjustment system to optimize the quality of permeated water, consumption and energy expenditure.

5. GRUNDFOS HIGH PERFORMANCE PUMP

Medium pressure pump. Centrifugal, made of stainless Steel 316 for heavy duty.

6. HYDRAULIC PANEL

With pressure gauges to control working pressures.

7. AUTOMATIC/MANUAL START/STOP SYSTEM

Level switch included in the supply.

8. LASTEST GENERATION TORAY MEMBRANES

Membrane/container assembly that facilitates maintenance. Low working pressure and low electricity consumption. High rejection of salts.

9. SECURITY FILTRATION

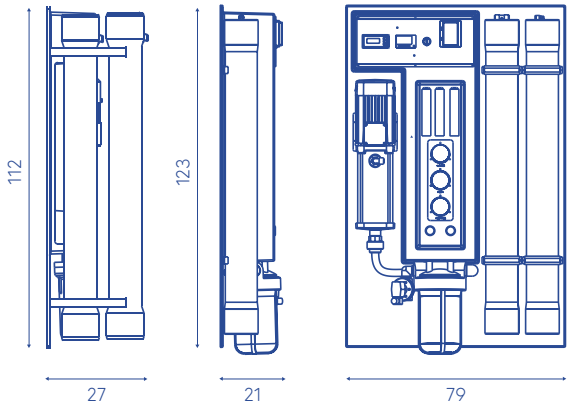
Great capacity. 1 micron pleated filter.

10. 10. PRODUCT WATER CONDUCTIVITY METER (OPTIONAL)

11. FLUSHING SYSTEM (OPTIONAL)

With osmosis water.

(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	PCM HL-180	PCM HL-360	PCM HL-540	PCM HL-720	PCM L-180	PCM L-360	PCM L-540	PCM L-720
REFERENCE CODE	**232662**	**232610**	**232612**	**232614**	**232663**	**232611**	**232613**	**232615**
PRODUCTION CAPACITY LITRES PER DAY	4320	8640	12960	17280	4320	8640	12960	17280
PRODUCTION CAPACITY LITRES PER HOUR	180	360	540	720	180	360	540	720
NUMBER OF MEMBRANES	1	2	3	4	1	2	3	4
MODEL OF MEMBRANES	4040	4040	4040	4040	4040	4040	4040	4040
MEDIUM SALT REJECTION (%) UNTIL (1)	99	99	99	99	99	99	99	99
MAX SALINITY RECOMMENDED IN INLET WATER (PPM)	3500	3500	3500	3500	6000	6000	6000	6000
RATIO OF WATER PRODUCED / REJECTED WATER	ADJUSTABLE UP TO 75%	ADJUSTABLE UP TO 75%	ADJUSTABLE UP TO 75%	ADJUSTABLE UP TO 75%	ADJUSTABLE UP TO 75%	ADJUSTABLE UP TO 75%	ADJUSTABLE UP TO 75%	ADJUSTABLE UP TO 75%
MAX. WORKING PRESSURE (KG/CM2)	14	14	14	14	18	18	18	18
MIN. INLET PRESSURE DYNAMIC (KG/CM2)	1	1	1	1	1	1	1	1
INLET WATER TEMPERATURE (MIN.-MAX. IN °C)	3-35	3-35	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	3-11	3-11
INLET MAXIMUM LEVEL OF CHLORINE (PPM)	<0,1	<0,1	<0,1	<0,1	<0,1	<0,1	<0,1	<0,1
INSTALLED POWER (KW)	1,2	1,2	1,2	1,2	1,2	1,2	1,2	1,2
POWER SUPPLY (50 Hz SINGLE PHASE)	III 220-380V II 220V (OP.)	III 220-380V II 220V (OP.)	III 220-380V II 220V (OP.)	III 220-380V II 220V (OP.)	III 220-380V II 220V (OP.)	III 220-380V II 220V (OP.)	III 220-380V II 220V (OP.)	III 220-380V II 220V (OP.)
ELECTRONIC CONTROL IN HIGH PRESSURE PUMP	SÍ	SÍ	SÍ	SÍ	SÍ	SÍ	SÍ	SÍ
INLET CONECTION (MM PUSH IN)	1" BSP FEMALE	1" BSP FEMALE	1" BSP FEMALE	1" BSP FEMALE	1" BSP FEMALE	1" BSP FEMALE	1" BSP FEMALE	1" BSP FEMALE
PRODUCT CONNECTION (MM PUSH IN)	12	12	12	12	12	12	12	12
REJECT CONNECTION (MM PUSH IN)	12	12	12	12	12	12	12	12
DIMENSIONS HEIGHT x WIDTH x DEPTH (CM)	123x79x21	123x79x21	123x79x27	123x79x27	123x79x21	123x79x21	123x79x27	123x79x27

IFK SERIES

1. HYDRAULIC SAFETY CIRCUIT

Product water circuit manufactured with materials approved for food use and up to 7 bar working pressure.

2. CONTROL ROTAMETERS

Complete measurement of operating flows.

3. HYDRAULIC PANEL

Pre-filtration and RO circuit control pressure gauges in stainless steel and glycerin bath.

4. 316 STAINLESS STEEL PUMP WITH ELECTRONIC CONTROL

Frequency converter, which saves energy by keeping the reverse osmosis circuit pump in the ideal working regime. The integrated display indicates the electrical working conditions, current consumption, voltage, etc.

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. SAFETY PRE-FILTRATION

Replaceable 1-micron pleated cartridges for continuous working, made of polyester resistant to organic contamination. Filtering surface of each prefilter of 1.5 m2 and 3 m2 in the IFK-1000 model and higher.

7. LASTEST GENERATION MEMBRANES

Membrane/container assembly that facilitates equipment maintenance. With high rejection of salts and with an increased surface area of up to 8m2 each, special for IFK equipment. Low working pressure and low electricity consumption. Product water quality notably better than with conventional membranes.

8. STAINLESS STEEL CHASSIS

One piece, moulded in polyester reinforced in fibreglass. Eliminates corrosion problems and extends the useful life of the equipment

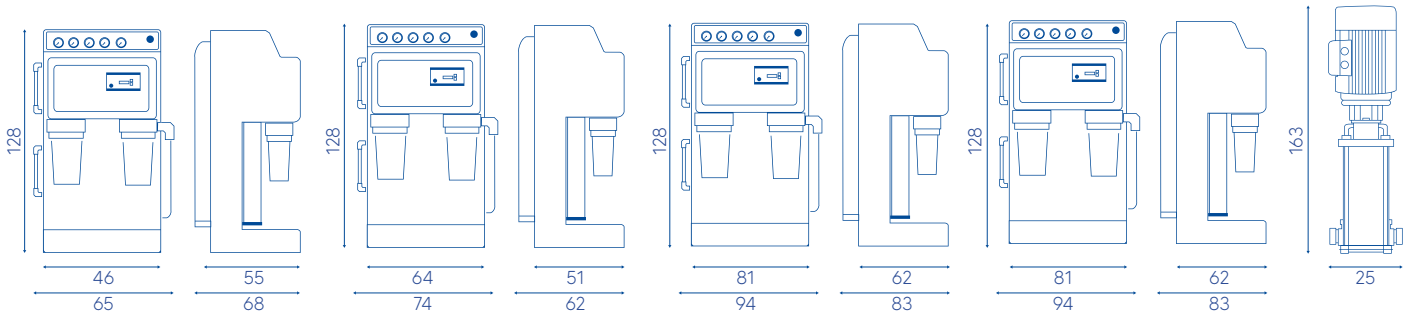
9. READING CONDUCTIVITY METER

10. WASHING SYSTEM (OPTIONAL HL MODELS)

With osmosis water.

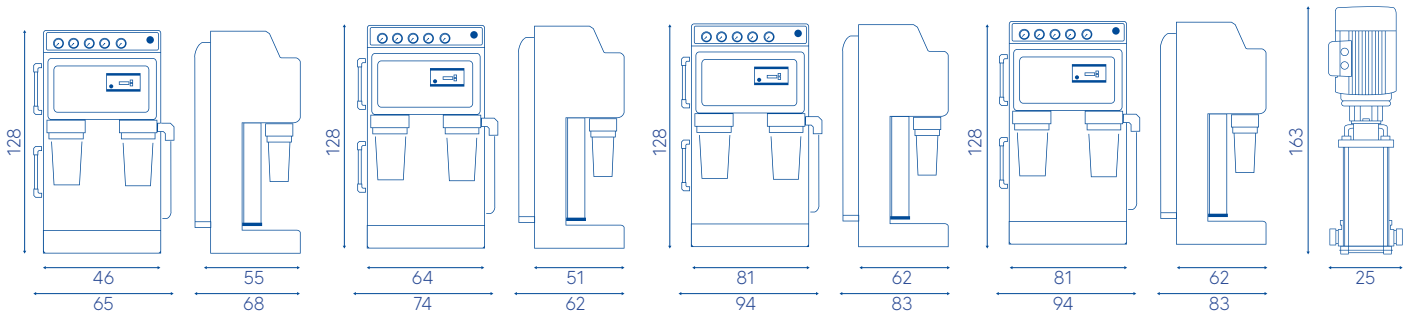
(1) +/- 10% at start-up with the maximum salinity indicated (in NaCL) in the table, 20 °C temperature, pH 7 and 50% recovery. The production decreases with a higher amount of dissolved solids or with a lower temperature and vice versa. The performance of the equipment is calculated with a temperature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

EQUIPMENT MODEL	IFK HL-190	IFK HL-380	IFK HL-570	IFK HL-760	IFK HL-950
REFERENCE CODE	**232616**	**232620**	**232624**	**232628**	**232632**
PRODUCTION CAPACITY LITRES PER DAY	4560	9150	13680	18240	22800
PRODUCTION CAPACITY LITRES PER HOUR	190	380	570	760	950
NUMBER OF MEMBRANES	1	2	3	4	5
MODEL OF MEMBRANES	4040	4040	4040	4040	4040
MEDIUM SALT REJECTION (%) UNTIL (1)	99	99	99	99	99
MAX SALINITY RECOMMENDED IN INLET WATER (PPM)	3500	3500	3500	3500	3500
RATIO OF WATER PRODUCED / REJECTED WATER	ADJUSTABLE UP TO 75%	ADJUSTABLE UP TO 75%	ADJUSTABLE UP TO 75%	ADJUSTABLE UP TO 75%	ADJUSTABLE UP TO 75%
MAX. WORKING PRESSURE (KG/CM2)	14	14	14	14	14
MIN. INLET PRESSURE DYNAMIC (KG/CM2)	2	2	2	2	2
INLET WATER TEMPERATURE (MIN.-MAX. IN °C)	3-35	3-35	3-35	3-35	3-35
INLET PH	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
INSTALLED POWER (KW)	1,1	1,1	1,1	1,1	1,1
POWER SUPPLY (50 Hz SINGLE PHASE)	II 220 III 220-380V	II 220 III 220-380V	II 220 III 220-380V	II 220 III 220-380V	II 220 III 220-380V
ELECTRONIC CONTROL IN HIGH PRESSURE PUMP	-	-	-	-	SÍ
INLET CONECTION (MM PUSH IN)	1"	1"	1"	1"	1"
PRODUCT CONNECTION (MM PUSH IN)	1/2"	1/2"	1/2"	1/2"	1/2"
REJECT CONNECTION (MM PUSH IN)	1/2"	1/2"	1/2"	1/2"	1"
DIMENSIONS HEIGHT x WIDTH x DEPTH (CM)	128x65x68	128x65x68	128x65x68	128x74x62	128x74x62



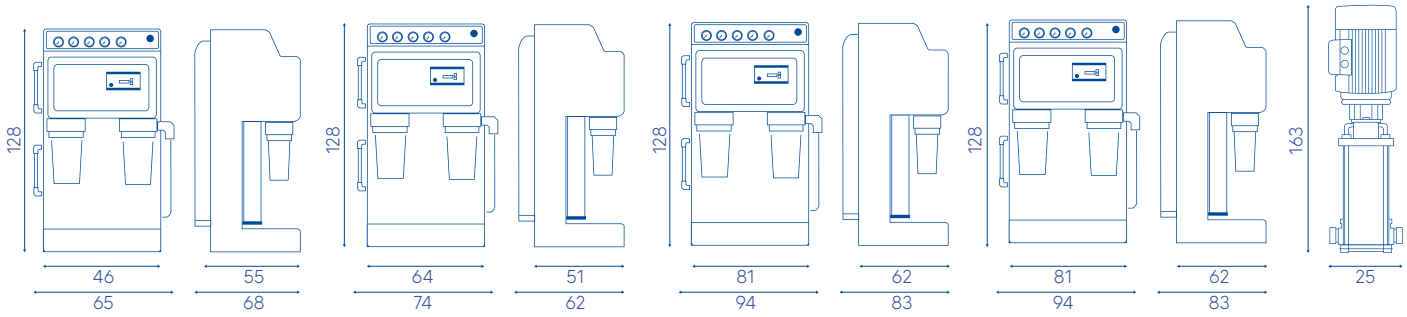
EQUIPMENT MODEL	IFK HL-1150	IFK HL-1350	IFK HL-1500	IFK HL-1700	IFK HL-2100
REFERENCE CODE	**232636**	**232640**	**232644**	**232648**	**232651**
PRODUCTION CAPACITY LITRES PER DAY	27450	32000	36000	40000	50000
PRODUCTION CAPACITY LITRES PER HOUR	1150	1350	1500	1700	2100
NUMBER OF MEMBRANES	6	8	9	10	12
MODEL OF MEMBRANES	4040	4040	4040	4040	4040
MEDIUM SALT REJECTION (%) UNTIL (1)	99	99	99	99	99
MAX SALINITY RECOMMENDED IN INLET WATER (PPM)	3500	3500	3500	3500	3500
RATIO OF WATER PRODUCED / REJECTED WATER	ADJUSTABLE UP TO 75%	ADJUSTABLE UP TO 75%	ADJUSTABLE UP TO 75%	ADJUSTABLE UP TO 75%	ADJUSTABLE UP TO 75%
MAX. WORKING PRESSURE (KG/CM2)	14	14	14	14	14
MIN. INLET PRESSURE DYNAMIC (KG/CM2)	2	2	2	2	2
INLET WATER TEMPERATURE (MIN.-MAX. IN °C)	3-35	3-35	3-35	3-35	3-35
INLET PH	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
INSTALLED POWER (KW)	1,1	1,5	2,2	3	3
POWER SUPPLY (50 Hz SINGLE PHASE)	II 220 (OPC.) III 220-380V	II 220 (OPC.) III 220-380V	III 220-380V	III 220-380V	III 220-380V
ELECTRONIC CONTROL IN HIGH PRESSURE PUMP	SÍ	SÍ	SÍ	SÍ	SÍ
INLET CONECTION (MM PUSH IN)	1"	1"	1"	1"	1"
PRODUCT CONNECTION (MM PUSH IN)	1"	1"	1"	1"	1"
REJECT CONNECTION (MM PUSH IN)	1"	1"	1"	1"	1"
DIMENSIONS HEIGHT x WIDTH x DEPTH (CM)	128x74x62	128x94x83	128x94x83	128x94x83	128x94x93
PUMP DIMENSIONS WIDTH x DEPTH (CM)					163x25

EQUIPMENT MODEL	IFK L-190	IFK L-380	IFK L-570	IFK L-760	IFK L-950
REFERENCE CODE	**232617**	**232621**	**232625**	**232629**	**232633**
PRODUCTION CAPACITY LITRES PER DAY	4560	9150	13680	18240	22800
PRODUCTION CAPACITY LITRES PER HOUR	190	380	570	760	950
NUMBER OF MEMBRANES	1	2	3	4	5
MODEL OF MEMBRANES	4040	4040	4040	4040	4040
MEDIUM SALT REJECTION (%) UNTIL (1)	99	99	99	99	99
MAX SALINITY RECOMMENDED IN INLET WATER (PPM)	6000	6000	6000	6000	6000
RATIO OF WATER PRODUCED / REJECTED WATER	ADJUSTABLE UP TO 75%	ADJUSTABLE UP TO 75%	ADJUSTABLE UP TO 75%	ADJUSTABLE UP TO 75%	ADJUSTABLE UP TO 75%
MAX. WORKING PRESSURE (KG/CM2)	18	18	18	18	18
MIN. INLET PRESSURE DYNAMIC (KG/CM2)	2	2	2	2	2
INLET WATER TEMPERATURE (MIN.-MAX. IN °C)	3-35	3-35	3-35	3-35	3-35
INLET PH	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
INSTALLED POWER (KW)	1,1	1,1	1,1	1,5	1,5
POWER SUPPLY (50 Hz SINGLE PHASE)	II 220 (OPC.) III 220-380V	II 220 (OPC.) III 220-380V	II 220 (OPC.) III 220-380V	II 220 (OPC.) III 220-380V	II 220(OPC.) III 220-380V
ELECTRONIC CONTROL IN HIGH PRESSURE PUMP	-	-	-	SÍ	SÍ
INLET CONECTION (MM PUSH IN)	1"	1"	1"	1"	1"
PRODUCT CONNECTION (MM PUSH IN)	1/2"	1/2"	1/2"	1/2"	1/2"
REJECT CONNECTION (MM PUSH IN)	1/2"	1/2"	1/2"	1/2"	1"
DIMENSIONS HEIGHT x WIDTH x DEPTH (CM)	128x65x68	128x65x68	128x65x68	128x74x62	128x74x62



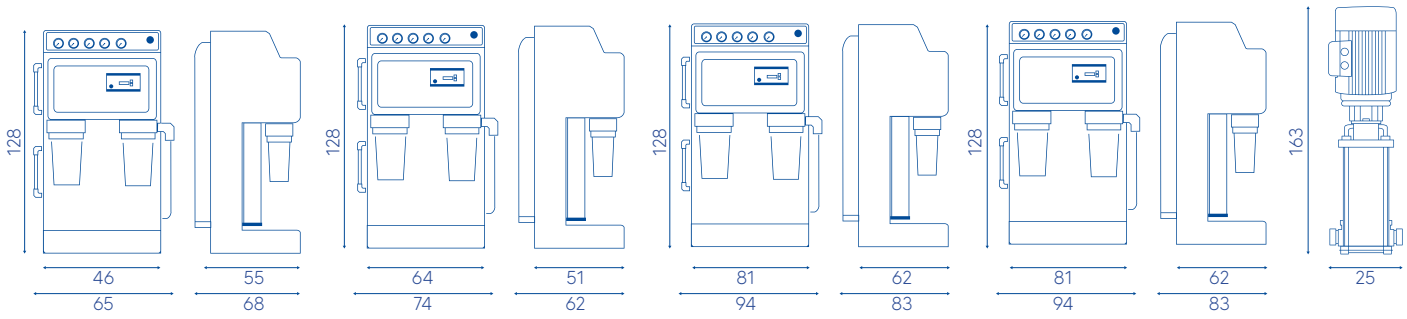
EQUIPMENT MODEL	IFK L-1150	IFK L-1350	IFK L-1500	IFK L-1700	IFK L-2100
REFERENCE CODE	**232637**	**232641**	**232645**	**232649**	**232652**
PRODUCTION CAPACITY LITRES PER DAY	27450	32000	36000	40000	50000
PRODUCTION CAPACITY LITRES PER HOUR	1150	1350	1500	1700	2100
NUMBER OF MEMBRANES	6	8	9	10	12
MODEL OF MEMBRANES	4040	4040	4040	4040	4040
MEDIUM SALT REJECTION (%) UNTIL (1)	99	99	99	99	99
MAX SALINITY RECOMMENDED IN INLET WATER (PPM)	6000	6000	6000	6000	6000
RATIO OF WATER PRODUCED / REJECTED WATER	ADJUSTABLE UP TO 75%	ADJUSTABLE UP TO 75%	ADJUSTABLE UP TO 75%	ADJUSTABLE UP TO 75%	ADJUSTABLE UP TO 75%
MAX. WORKING PRESSURE (KG/CM2)	18	18	18	18	18
MIN. INLET PRESSURE DYNAMIC (KG/CM2)	2	2	2	2	2
INLET WATER TEMPERATURE (MIN.-MAX. IN °C)	3-35	3-35	3-35	3-35	3-35
INLET PH	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
INSTALLED POWER (KW)	1,5	1,5	3	3	3
POWER SUPPLY (50 Hz SINGLE PHASE)	II 220 (OPC.) III 220-380V	II 220 (OPC.) III 220-380V	III 220-380V	III 220-380V	III 220-380V
ELECTRONIC CONTROL IN HIGH PRESSURE PUMP	SÍ	SÍ	SÍ	SÍ	SÍ
INLET CONECTION (MM PUSH IN)	1"	1"	1"	1"	1"
PRODUCT CONNECTION (MM PUSH IN)	1"	1"	1"	1"	1"
REJECT CONNECTION (MM PUSH IN)	1"	1"	1"	1"	1"
DIMENSIONS HEIGHT x WIDTH x DEPTH (CM)	128x74x62	128x94x83	128x94x83	128x94x83	128x94x93
PUMP DIMENSIONS WIDTH x DEPTH (CM)					163x25

EQUIPMENT MODEL	IFK M-190	IFK M-380	IFK M-570	IFK M-760	IFK M-950
REFERENCE CODE	**232618**	**232622**	**232626**	**232630**	**232634**
PRODUCTION CAPACITY LITRES PER DAY	4560	9150	13680	18240	22800
PRODUCTION CAPACITY LITRES PER HOUR	190	380	570	760	950
NUMBER OF MEMBRANES	1	2	3	4	5
MODEL OF MEMBRANES	4040	4040	4040	4040	4040
MEDIUM SALT REJECTION (%) UNTIL (1)	99	99	99	99	99
MAX SALINITY RECOMMENDED IN INLET WATER (PPM)	10000	10000	10000	10000	10000
RATIO OF WATER PRODUCED / REJECTED WATER	ADJUSTABLE UP TO 75%	ADJUSTABLE UP TO 75%	ADJUSTABLE UP TO 75%	ADJUSTABLE UP TO 75%	ADJUSTABLE UP TO 75%
MAX. WORKING PRESSURE (KG/CM2)	22	22	22	22	22
MIN. INLET PRESSURE DYNAMIC (KG/CM2)	2	2	2	2	2
INLET WATER TEMPERATURE (MIN.-MAX. IN °C)	3-35	3-35	3-35	3-35	3-35
INLET PH	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
INSTALLED POWER (KW)	1,5	1,5	1,5	1,5	2,2
POWER SUPPLY (50 Hz SINGLE PHASE)	II 220 (OPC.) III 220-380V	II 220 (OPC.) III 220-380V	II 220 (OPC.) III 220-380V	II 220 (OPC.) III 220-380V	II 220 (OPC.) III 220-380V
ELECTRONIC CONTROL IN HIGH PRESSURE PUMP	SÍ	SÍ	SÍ	SÍ	SÍ
INLET CONECTION (MM PUSH IN)	1"	1"	1"	1"	1"
PRODUCT CONNECTION (MM PUSH IN)	1/2"	1/2"	1/2"	1/2"	1/2"
REJECT CONNECTION (MM PUSH IN)	1/2"	1/2"	1/2"	1/2"	1"
DIMENSIONS HEIGHT x WIDTH x DEPTH (CM)	128x65x68	128x65x68	128x65x68	128x74x62	128x74x62



EQUIPMENT MODEL	**IFK M-1150**	**IFK M-1350**	**IFK M-1500**	**IFK M-2100**
REFERENCE CODE	**232638**	**232642**	**232646**	**232653**
PRODUCTION CAPACITY LITRES PER DAY	27450	32000	36000	50000
PRODUCTION CAPACITY LITRES PER HOUR	1150	1350	1500	2100
NUMBER OF MEMBRANES	6	8	9	12
MODEL OF MEMBRANES	4040	4040	4040	4040
MEDIUM SALT REJECTION (%) UNTIL (1)	99	99	99	99
MAX SALINITY RECOMMENDED IN INLET WATER (PPM)	10000	10000	10000	10000
RATIO OF WATER PRODUCED / REJECTED WATER	ADJUSTABLE UP TO 75%	ADJUSTABLE UP TO 75%	ADJUSTABLE UP TO 75%	ADJUSTABLE UP TO 75%
MAX. WORKING PRESSURE (KG/CM2)	22	22	22	22
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)	2,2	3	3	3
POWER SUPPLY (50 Hz SINGLE PHASE)	II 220 (OPC.) 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)	128x74x62	128x94x83	128x94x83	128x94x93
PUMP DIMENSIONS WIDTH x DEPTH (CM)				163x25

EQUIPMENT MODEL	IFK R-190	IFK R-380	IFK R-570	IFK R-760	IFK R-950
REFERENCE CODE	**232619**	**232623**	**232627**	**232631**	**232635**
PRODUCTION CAPACITY LITRES PER DAY	4560	9150	13680	18240	22800
PRODUCTION CAPACITY LITRES PER HOUR	190	380	570	760	950
NUMBER OF MEMBRANES	1	2	3	4	5
MODEL OF MEMBRANES	4040	4040	4040	4040	4040
MEDIUM SALT REJECTION (%) UNTIL (1)	99,2	99,2	99,2	99,2	99,2
MAX SALINITY RECOMMENDED IN INLET WATER (PPM)	15000	15000	15000	15000	15000
RATIO OF WATER PRODUCED / REJECTED WATER	ADJUSTABLE UP TO 75%	ADJUSTABLE UP TO 75%	ADJUSTABLE UP TO 75%	ADJUSTABLE UP TO 75%	ADJUSTABLE UP TO 75%
MAX. WORKING PRESSURE (KG/CM2)	31	31	31	31	31
MIN. INLET PRESSURE DYNAMIC (KG/CM2)	2	2	2	2	2
INLET WATER TEMPERATURE (MIN.-MAX. IN °C)	3-35	3-35	3-35	3-35	3-35
INLET PH	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
INSTALLED POWER (KW)	2,2	2,2	2,2	3	3
POWER SUPPLY (50 Hz SINGLE PHASE)	II 220 (OPC.) III 220-380V	II 220 (OPC.) III 220-380V	II 220 (OPC.) III 220-380V	III 220-380V	III 220-380V
ELECTRONIC CONTROL IN HIGH PRESSURE PUMP	SÍ	SÍ	SÍ	SÍ	SÍ
INLET CONECTION (MM PUSH IN)	1"	1"	1"	1"	1"
PRODUCT CONNECTION (MM PUSH IN)	1/2"	1/2"	1/2"	1/2"	1/2"
REJECT CONNECTION (MM PUSH IN)	1/2"	1/2"	1/2"	1/2"	1"
DIMENSIONS HEIGHT x WIDTH x DEPTH (CM)	128x65x68	128x65x68	128x65x68	128x74x62	128x74x62



EQUIPMENT MODEL	IFK R-1150	IFK R-1350	IFK R-1500	IFK R-1700	IFK R-2100
REFERENCE CODE	**232639**	**232643**	**232647**	**232650**	**232654**
PRODUCTION CAPACITY LITRES PER DAY	27450	32000	36000	40000	50000
PRODUCTION CAPACITY LITRES PER HOUR	1150	1350	1500	1700	2100
NUMBER OF MEMBRANES	6	8	9	10	12
MODEL OF MEMBRANES	4040	4040	4040	4040	4040
MEDIUM SALT REJECTION (%) UNTIL (1)	99,2	99,2	99,2	99,2	99,2
MAX SALINITY RECOMMENDED IN INLET WATER (PPM)	15000	15000	15000	15000	15000
RATIO OF WATER PRODUCED / REJECTED WATER	ADJUSTABLE UP TO 75%	ADJUSTABLE UP TO 75%	ADJUSTABLE UP TO 75%	ADJUSTABLE UP TO 75%	ADJUSTABLE UP TO 75%
MAX. WORKING PRESSURE (KG/CM2)	31	31	31	31	31
MIN. INLET PRESSURE DYNAMIC (KG/CM2)	2	2	2	2	2
INLET WATER TEMPERATURE (MIN.-MAX. IN °C)	3-35	3-35	3-35	3-35	3-35
INLET PH	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
INSTALLED POWER (KW)	3	4	5,5	5,5	7,5
POWER SUPPLY (50 Hz SINGLE PHASE)	III 220-380V	III 220-380V	III 220-380V	III 220-380V	III 220-380V
ELECTRONIC CONTROL IN HIGH PRESSURE PUMP	SÍ	SÍ	SÍ	SÍ	SÍ
INLET CONECTION (MM PUSH IN)	1"	1"	1"	1"	1"
PRODUCT CONNECTION (MM PUSH IN)	1"	1"	1"	1"	1"
REJECT CONNECTION (MM PUSH IN)	1"	1"	1"	1"	1"
DIMENSIONS HEIGHT x WIDTH x DEPTH (CM)	128x74x62	128x94x83	128x94x83	128x94x83	128x94x93
PUMP DIMENSIONS WIDTH x DEPTH (CM)					163x25


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

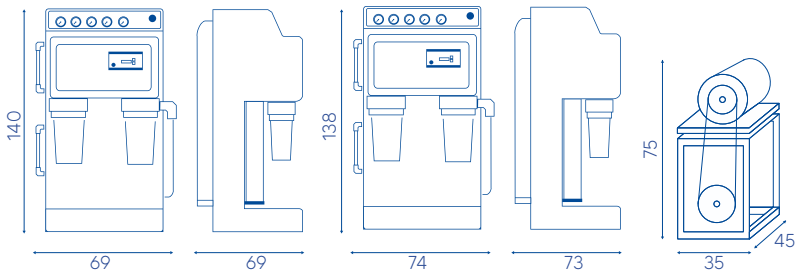
Membrane/container assembly that facilitates equipment maintenance. With high rejection of salts and a larger membrane surface, they guarantee quality water and durability and contribute to lower energy consumption of the equipment.

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/CM2)	55	55	55	55	55	55
MIN. INLET PRESSURE DYNAMIC (KG/CM2)	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	SÍ	SÍ	SÍ	SÍ	SÍ	SÍ
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