PC F 1.4



PC F Series

Shell and tube forced circulation evaporators. Wastewater treatment evaporators for maximum distillate quality with minimum capital and operating costs.

1. Technical characteristics

Nominal production of distillate with water	1,400 [l/24h] 0.256 [gpm]
Models available (selection dependent on material)	PC F 1.4 AA (austenitic stainless steel) PC F 1.4 FF (superduplex stainless steel) PC F 1.4 HH (nickel alloys) PC F 1.4 FA (austenitic and superduplex stainless steel)
Installation	indoor
Condensation heat exchanger	internal coil
Primary heat exchanger	external shell and tube with forced circulation
Evaporation type	conveyed vacuum flash
Evaporation conditions	absolute pressure 6-8 [kPa] 0.9-1.1 [psi] temperature 35-45 [°C] 86-104 [°F]
Drops separator	demister, grate type with packing elements
Technology of heating/cooling	heat pump
Circulation pump	centrifugal with fluxed mechanical seal
Heat pump compressor	hermetic reciprocating piston type"
Refrigeration fluid	R134a (no impact on the ozone layer)
Vacuum system	liquid ejector
Control	automatic, continuous 24/24h 7/7 days by PLC
Operator panel	touch screen
In compliance with standards: (CE marking)	Machinery Directive Electromagnetic compatibility Electrical safety PED Pressure Equipment Directive

2. Nominal performances	50 [Hz]	60 [Hz]
Electrical power supply	400 [V]	460 [V]
Maximum production of distillate with water	1,440 [l/24h] 380 [gpd]	1,440 [l/24h] 380 [gpd]
Absorbed power	9 [kW]	9 [kW]
Specific electrical consumption per litre/gallon of distillate	150 [Wh/l] 568 [Wh/gal]	150 [Wh/l] 568 [Wh/gal]



Environmental Impact Reduction: CO₂ emissions

92.46 kg CO, eq/m³ liquid waste treated

-92.6%, the percentage of emissions avoided with respect to incineration of the liquid waste

3. Weight

Туре	Empty without packaging / steady state with water
Weight [kg]	610 / 770
Weight [lb]	1,345 / 1,698

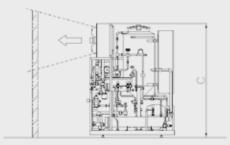
Dimensions & clearances

PC F 1.4	[mm]	[in]
А	1,000	39,4
В	1,620	63,8
С	2,190	86,2
D	2,600	102,4
E	3,620	142,5

4. Options | Description

in feed storage tanks 2,000 520 gal
in distillate storage tanks 2,000 520 gal in concentrate storage tanks 1,000 260 gal
oncentrate density device
dditive dosing device
istillate pH adjustment device
oncentrate transfer device
uxiliary cooling device
istillate conductivity control device
utomatic washing of the level switch
utomatic chemical washing system
ofibus interface device
hernet interface device
emote control via ADSL/UMTS
actericide dosing device
istillate transfer device
istillate pressurization device
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Standard	Description

OM AF F Antifoam agent dosing device

In case of foaming effluent, EVALED® evaporators are designed to be operated with **Hydrex™** antifoams. For maintenance operations, use **Hydrex™** cleaners.

Hydrex