

PC R 0.1



PC R Series

Scraped heating jacket evaporators. Wastewater treatment evaporators allowing a high final concentration of the waste to dispose of and a distillate with low conductivity.

1. Technical characteristics

Nominal production of distillate with water	150 [l/24h] 0.027 [gpm]
Models available (selection dependent on material)	PC R 0.1 AA (austenitic stainless steel) PC R 0.1 FF (superduplex stainless steel) PC R 0.1 HH (nickel alloys)
Installation	indoor
Condensation heat exchanger	internal coil
Primary heat exchanger	heating jacket
Evaporation type	vacuum with a scraped system
Evaporation conditions	absolute pressure 3-7 [kPa] 0.4-1 [psi] temperature 25-40 [°C] 77-104 [°F]
Drops separator	demister, grate type with packing elements
Technology of heating/cooling	heat pump
Heat pump compressor	reciprocating hermetic
Refrigeration fluid	R134a (no impact on the ozone layer)
Vacuum system	liquid ejector
Control	automatic, continuous 24/24h 7/7 days by PLC
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	230 [V]	260 [V]
Maximum production of distillate with water	170 [l/24h] 0.031 [gpm]	173 [l/24h] 0.031 [gpm]
Absorbed power	2.6 [kW]	2.9 [kW]
Specific electrical consumption per litre/gallon of distillate	380 [Wh/l] 1,438 [Wh/gal]	400 [Wh/l] 1,514 [Wh/gal]



CO₂
footprint

Environmental Impact Reduction: CO₂ emissions

157.91 kg CO₂ eq/m³ liquid waste treated

-86.4%, the percentage of emissions avoided with respect to incineration of the liquid waste

3. Weight

Type	Empty without packaging / steady state with water
Weight [kg]	260 / 300
Weight [lb]	573 / 661

Dimensions & clearances

PCR 0.1	[mm]	[in]
A	730	28,7
B	850	33,5
C	1,460	57,5
D	2,030	79,9
E	2,250	88,6

4. Options

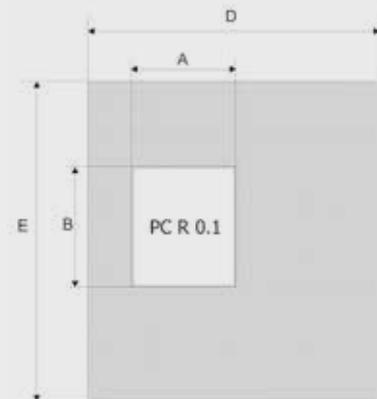
Description

	min feed storage tanks 200 l 50 gal min distillate storage tanks 200 l 50 gal min concentrate storage tanks 200 l 50 gal
OT DP C 20	Concentrate transfer device
AT CP D 40	Distillate transfer device

Standard

Description

OM AF F	Antifoam agent dosing device
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In case of foaming effluent, EVALED® evaporators are designed to be operated with **Hydrex™** antifoams. For maintenance operations, use **Hydrex™** cleaners.

Hydrex

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