

PC R 0.5



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	500 [l/24h] 0.091 [gpm]
Models available (selection dependent on material)	PC R 0.5 AA (austenitic stainless steel) PC R 0.5 FF (superduplex stainless steel) PC R 0.5 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 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
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	520 [l/24h] 137 [gpd]	520 [l/24h] 137 [gpd]
Absorbed power	5.5 [kW]	5.5 [kW]
Specific electrical consumption per litre/gallon of distillate	255 [Wh/l] 965 [Wh/gal]	255 [Wh/l] 965 [Wh/gal]



Environmental Impact Reduction: CO₂ emissions
 150.94 kg CO₂ eq/m³ liquid waste treated
-88.0%, 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]	580 / 860
Weight [lb]	1,279 / 1,896

Dimensions & clearances

PC R 0.5	[mm]	[in]
A	1,160	45,7
B	1,540	60,6
C	2,190	86,2
D	2,660	104,7
E	3,040	119,7

4. Options | Description

	min feed storage tanks 1,000 l 260 gal min distillate storage tanks 1,000 l 260 gal min concentrate storage tanks 1,000 l 260 gal
OM AD F	Additive dosing device
OC pH D	Distillate pH adjustment device
OC TP R	Auxiliary cooling device
OC CN D	Distillate conductivity control device
OC PB	Profibus interface device
OC EN	Ethernet interface device
OI RC	Remote control via ADSL/UMTS
AM BT D	Bactericide dosing device
AT CP D	Distillate transfer device
AT SP D	Distillate pressurization device
AC pH F	Feed pH adjustment device

Standard | Description

OM AF F	Antifoam agent dosing device
OT DP C	Concentrate transfer device
OW TW	Automatic washing of the level switch

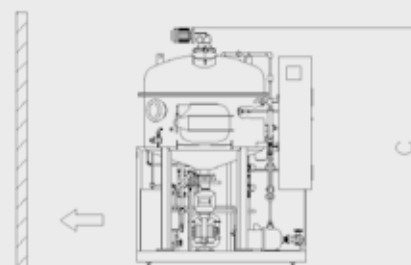
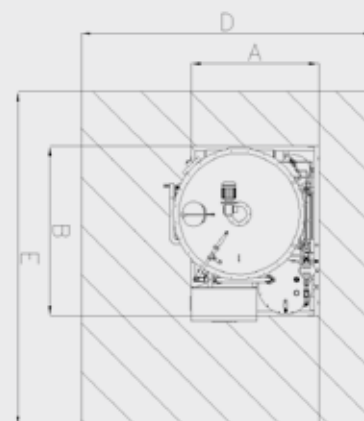


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In case of foaming effluent, EVALED® evaporators are designed to be operated with **Hydrex™** antifoams. For maintenance operations, use **Hydrex™** cleaners.

Hydrex