

ClimExel

by PROCOPI

Heat exchangers
for pools
& spas



PLUNGE
into warmth,
CLIMEXEL...

PROCOPI
Pool & Spa Equipment

CLIMEXEL, heat exchanger excellence



> Excellent, innovative, highly efficient design!

The CLIMEXEL heat exchanger is designed to be mounted in by-pass with a boiler or heat pump as the heat source. It may be purchased as is or, alternatively, premounted with the circulating pump and every other element required for its operation contained within an ingeniously designed housing.

This **heat exchanger features spiral plates** made of **titanium**, a very stable metal, that generate an excellent yield thanks to the large exchange surface area.

The premounted version of the heat exchanger is ready to plug and play, it simply needs to be mounted on the filtration circuit.

> Technical data Version ET-NU

Titanium plate heat exchanger totally compatible with every type of water treatment, including salt electrolysis. **Guaranteed 5 years.**

The body of the heat exchanger is made of synthetic resin.

90° outlets to facilitate mounting in "by-pass".

Thimbles for insertion of a temperature probe at the inlet and outlet to allow inversion of the flow direction.

Comes with two adaptor unions, Ø50 or Ø63mm, for the secondary circuit (pool).

> Technical data Version ET-CA

The same specifications as the ET-NU version with these added extras;

a precision Aquastat with **digital readout** of the water temperature and the setpoint.

a circulating pump for the primary circuit,

two isolation valves mounted on the primary circuit, one mounted with an anti-thermosiphon check valve,

one drainage valve,

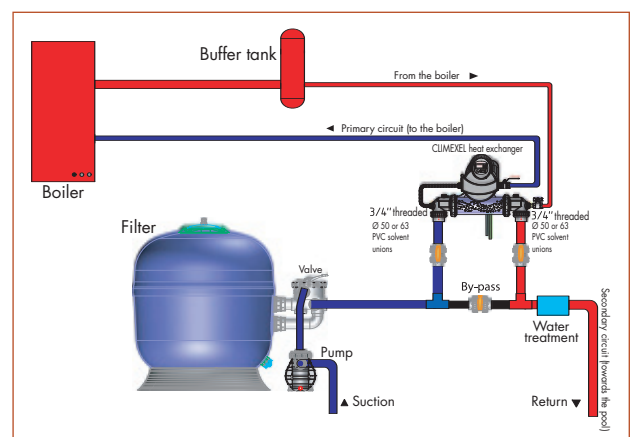
all the electrical cabling necessary to correctly operate the device.

What is a heat exchanger ?

A heat exchanger is a device specifically designed to heat.

Within the exchanger, two isolated hydraulic circuits are arranged in a counter flow configuration.

The primary circuit carries hot water (45/90°C) from a boiler or a heat pump within the home. The secondary circuit carries water from the pool. On contact between the two circuits, heat is transferred through thin walls from the primary circuit to the secondary circuit.



*Diagram illustrating the primary and secondary circuits of the preassembled heat exchanger

EXCLUSIVE!

The titanium plate heat exchanger:
CLIMEXEL's advantages

- **Larger heat exchange surface area**
=> Higher heat yield
- **Stable metal**
=> Compatible with every type of water treatment
- **Low head loss**
=> Can be installed with any hydraulic pump, irrespective of pump size

Heat exchanger
Guaranteed 5 years



Power output (in kW) as a function of the temperature in the primary and secondary circuits

25 KW model

Secondary circuit temperature (°C)	Primary circuit temperature (°C)				
	50	60	70	80	90
10	14 KW	19 KW	22 KW	27 KW	32 KW
20	11 KW	16 KW	20 KW	24 KW	29 KW
30	8 KW	12 KW	17 KW	21 KW	26 KW

40 KW model

Secondary circuit temperature (°C)	Primary circuit temperature (°C)				
	50	60	70	80	90
10	24 KW	30 KW	37 KW	45 KW	52 KW
20	18 KW	25 KW	32 KW	40 KW	47 KW
30	13 KW	19 KW	27 KW	34 KW	40 KW

60 KW model

Secondary circuit temperature (°C)	Primary circuit temperature (°C)				
	50	60	70	80	90
10	31 KW	40 KW	49 KW	58 KW	69 KW
20	24 KW	33 KW	42 KW	52 KW	62 KW
30	17 KW	26 KW	35 KW	45 KW	55 KW

90 KW model

Secondary circuit temperature (°C)	Primary circuit temperature (°C)				
	50	60	70	80	90
10	42 KW	55 KW	66 KW	78 KW	93 KW
20	32 KW	46 KW	56 KW	70 KW	87 KW
30	23 KW	36 KW	47 KW	60 KW	76 KW

Primary circuit: t°C of the heating circuit

Secondary circuit: t°C of the pool circuit

Model ET-NU

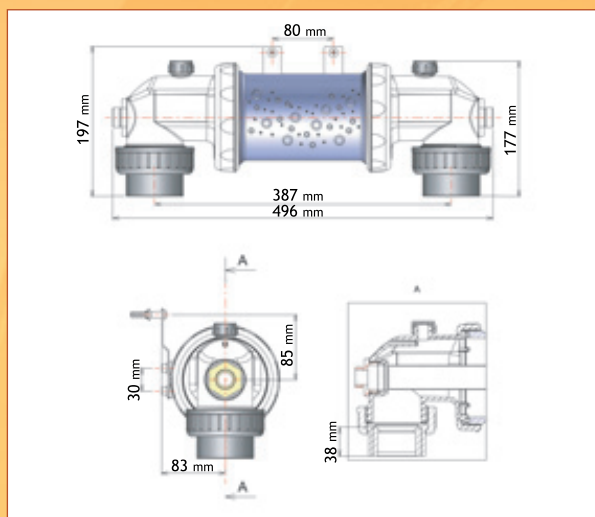


Models	25KW	40KW	60KW	90KW
Nominal power (kW)	25	40	60	90
Primary Circuit (heating) connections	Ø 3/4 " tapped			
Secondary circuit (pool) connections	Ø 50 or 63, PVC solvent unions			
Primary circuit (heating) flow rate (m³/h)	0.72	1.20	1.74	2.12
Secondary circuit (pool) flow rate (m³/h)	2.70	4.32	6.36	9.10
Primary circuit (heating) load loss (mWC)	1.50	1.20	1.40	1.40
Secondary circuit (pool) load loss (mWC)	1.00	1.90	1.00	1.00
Operating pressure (bar)	2.00			
Weight (kg)	6.0	6.5	7.0	7.5

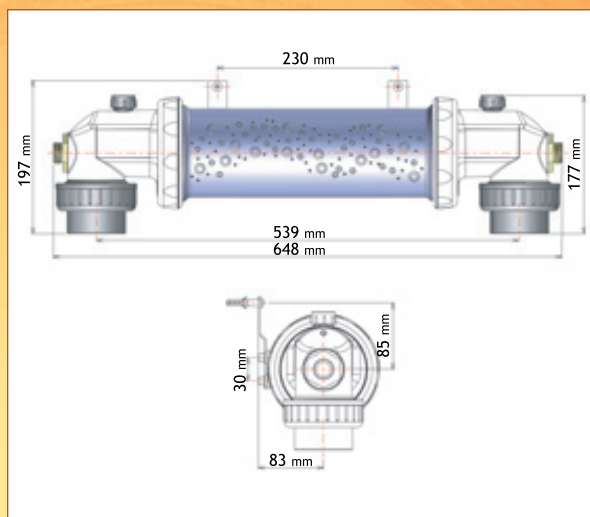
Model ET-CA



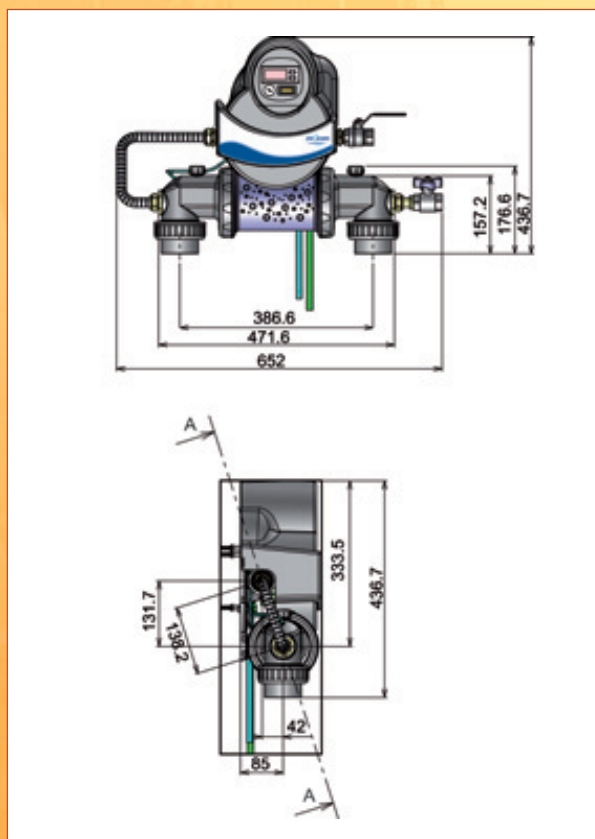
Models: ET-NU 25 and 40 kW



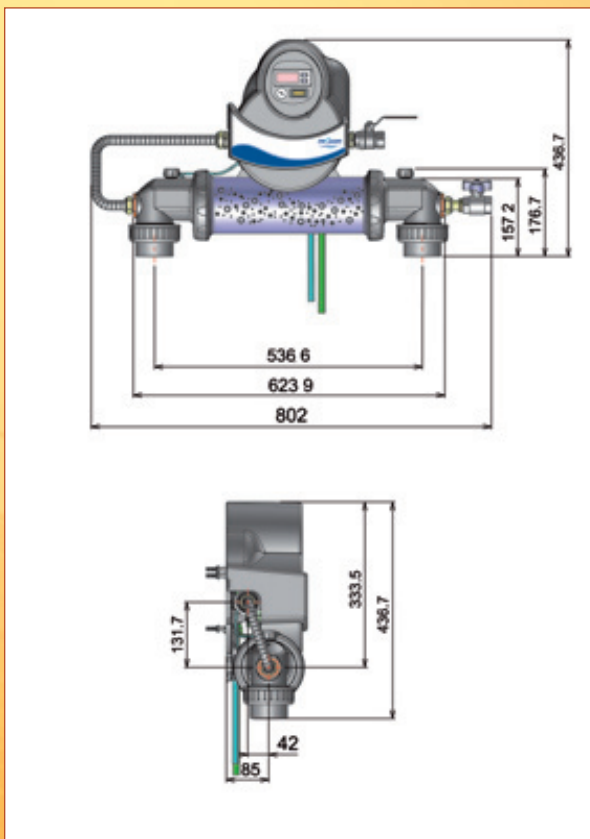
Models: ET-NU 60 and 90 kW



Models: EC-NA 25 and 40 kW

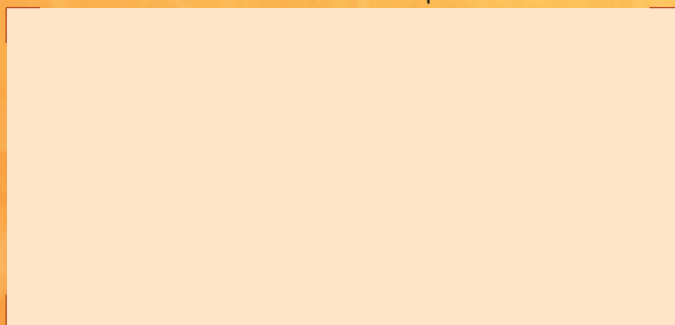


Models: EC-NA 60 and 90 kW



Primary connections: Ø 3/4" tapped / **Secondary connections:** Ø50 or Ø63 PVC solvent unions

Dealer's stamp



ClimExel
by PROCOPI

PROCOPI
Pool & Spa Equipment