HEATING & DEHUMIDIFICATION

HEAT EXCHANGERS

Climexel by PROCOPI

GUARANTEE 5 YEARS TITANIUM EXCHANGER

GUARANTEE 2 YEARS STAINLESS STEEL EXCHANGER

SPIRAL PLATE BARE OR PREASSEMBLED

STAINLESS STEEL OR TITANIUM

INNOVATIVE, HIGH PERFORMANCE DESIGN!

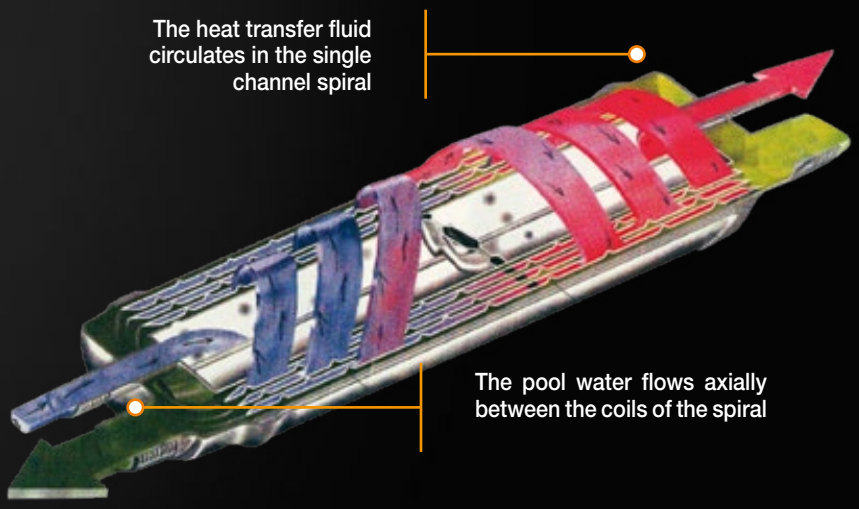
Climexel heat exchangers are designed to be mounted on a boiler or heat pump bypass loop. They are available ‘as is’, or housed in an innovative casing.

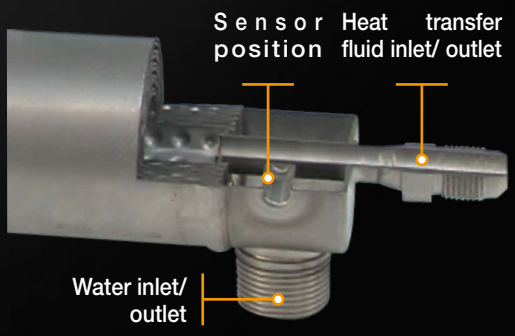
The spiral plate heat exchanger is made of titanium, a non degradable, unreactive material. Its large surface area provides an excellent yield. In the housed version, all the elements required for the heat exchanger to run correctly are preassembled such that it may be mounted directly on the filtration circuit.

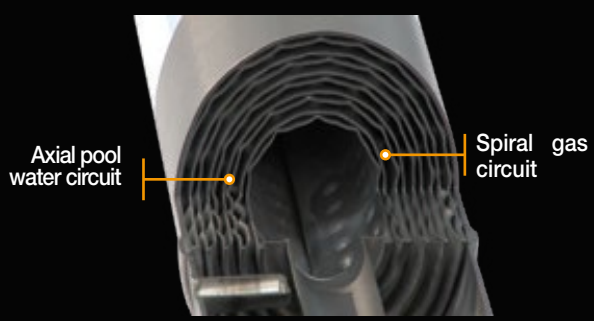
WHAT IS A HEAT EXCHANGER?

A heat exchanger is a circuit that allows the transmission of heat from a hot body to a cold body. The larger the surface area, the better the yield.

For this reason, Procopi fits its heat pumps with spiral plate exchangers that offer a much larger heat exchange surface area than tube exchangers.







STAINLESS STEEL OR TITANIUM PLATE HEAT EXCHANGERS

GUARANTEE 5 YEARS TITANIUM EXCHANGER

GUARANTEE 2 YEARS STAINLESS STEEL EXCHANGER

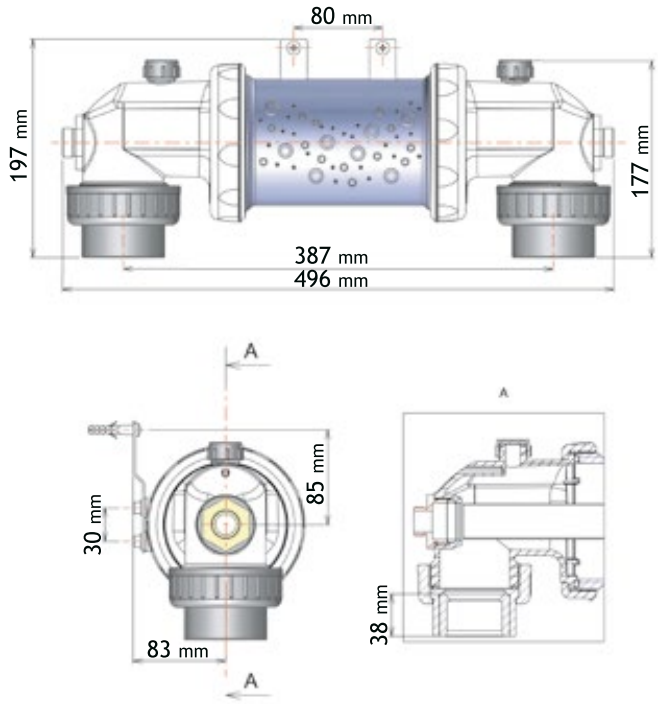
CLIMEXEL® STAINLESS STEEL SPIRAL PLATE HEAT EXCHANGERS - GREY

- The body of the Climexel heat exchanger is made of fibreglass loaded polypropylene. The exchanger itself is made of 316 L stainless steel shaped into a spiral plate. A stainless steel exchanger plate is particularly recommended if the temperature of the primary circuit is low (heat pump). The table opposite will assist in the selection of the appropriate heat exchanger based on the temperature in the primary loop.
- Right angled connections to the secondary circuit facilitate mounting in bypass.
- The heat exchanger features two temperature sensor thermowells, one at the inlet and one at the outlet, to allow inversion of the water flow through the exchanger.
- Stainless steel heat exchangers are not compatible with water treatment by salt water electrolysis.

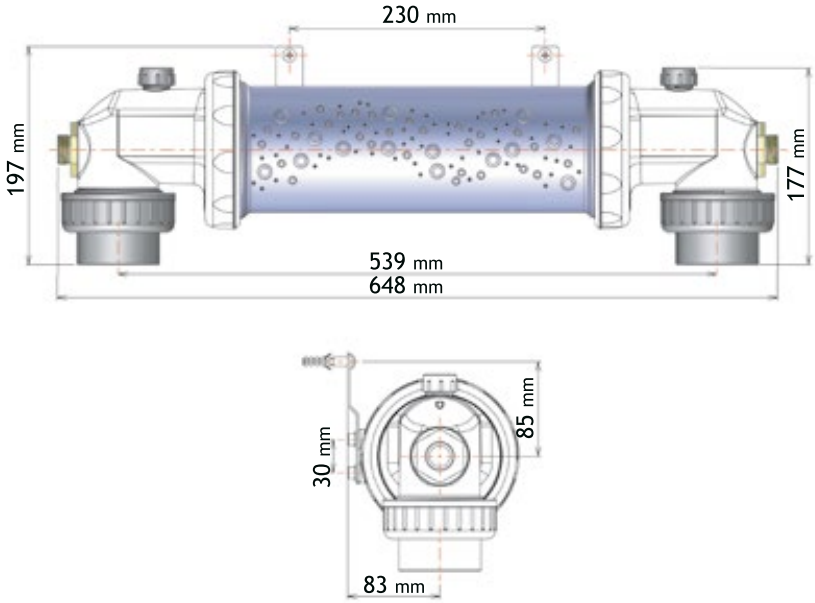
CLIMEXEL® TITANIUM SPIRAL PLATE HEAT EXCHANGERS - GREY

- Shares the same technical features as the stainless steel version except that the spiral plate heat exchanger itself is made of titanium.
- Use the table opposite to select the correct heat exchanger model based on the temperature in the primary circuit.

ET-NU MK-1 and MK-2 models



ET-NU MK-3 and MK-4 models



MODELS	FLOW RATE M³/H		Power output (kW), based on the primary temperatures shown below					
	PRIMARY	SECONDARY	45°C	50°C	60°C	70°C	80°C	90°C
ClimExel MK-1 heat exchanger	0.72	4.50	8	9	14	18	22	27
ClimExel MK-2 heat exchanger	1.20	5	12	15	22	29	37	43
ClimExel MK-3 heat exchanger	1.74	6.50	17	20	29	38	48	58
ClimExel MK-4 heat exchanger	1.80	11	27	33	49	63	79	95

The power output indicated above is valid for a secondary (pool water) circuit temperature of 25°C
Caution: as indicated in the table below, Climexel heat exchangers are not compatible with primary loop temperatures above 90° C.

PREASSEMBLED STAINLESS STEEL OR TITANIUM HEAT EXHCHANGERS

GUARANTEE 5 YEARS TITANIUM EXCHANGER

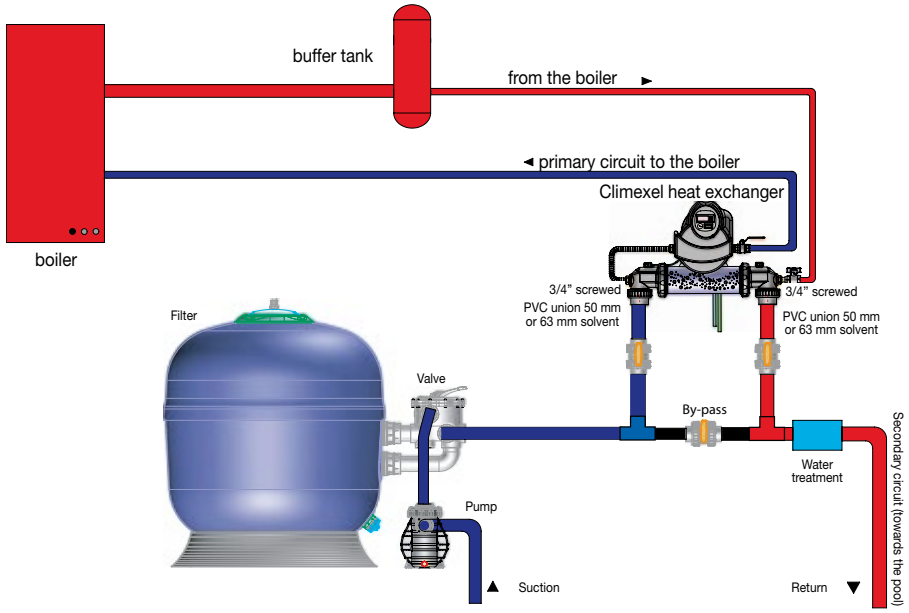
GUARANTEE 2 YEARS STAINLESS STEEL EXCHANGER

CLIMEXEL® PREASSEMBLED, STAINLESS STEEL HEAT EXCHANGERS - GREY

- A stainless steel, spiral plate heat exchanger.
- A precision aquastat with digital display of the water temperature and the set point.
- A primary loop circulation pump.
- Two isolation valves on the primary circuit, one fitted with an anti-thermosyphon check valve.
- A drain.
- All the cables and electrical components necessary for the system to operate correctly.
- Stainless steel heat exchangers are not compatible with water treatment by salt water electrolysis.

CLIMEXEL® PREASSEMBLED, TITANIUM HEAT EXCHANGERS - GREY

- A Climexel titanium, spiral plate heat exchanger.
- A precision aquastat with digital display of the water temperature and the set point.
- A primary loop circulation pump.
- Two isolation valves on the primary circuit, one fitted with an anti-thermosyphon check valve.
- A drain.
- All the cables and electrical components necessary for the system to operate correctly.

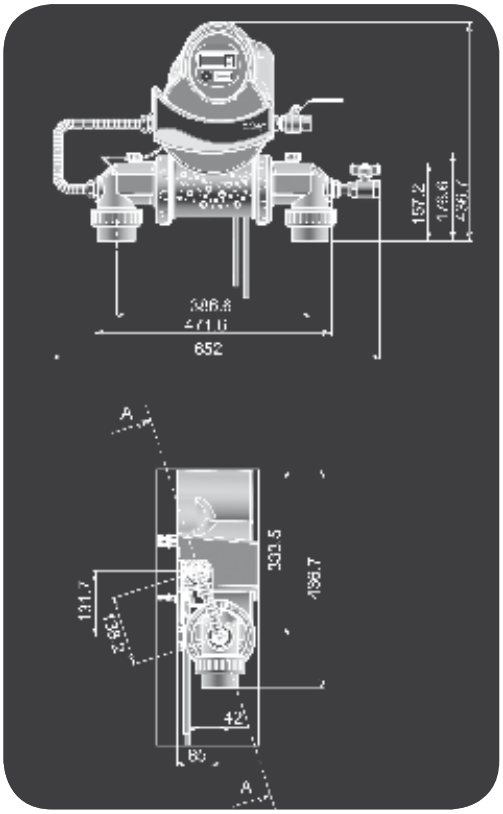


The heat exchangers are originally designed so that pool water flows through from left to right. Water from the boiler enters from the left and leaves through an outlet beneath the exchanger on the same side.
The temperature sensor is lodged in a thermowell on the left-hand side of the exchanger (pool water inlet).

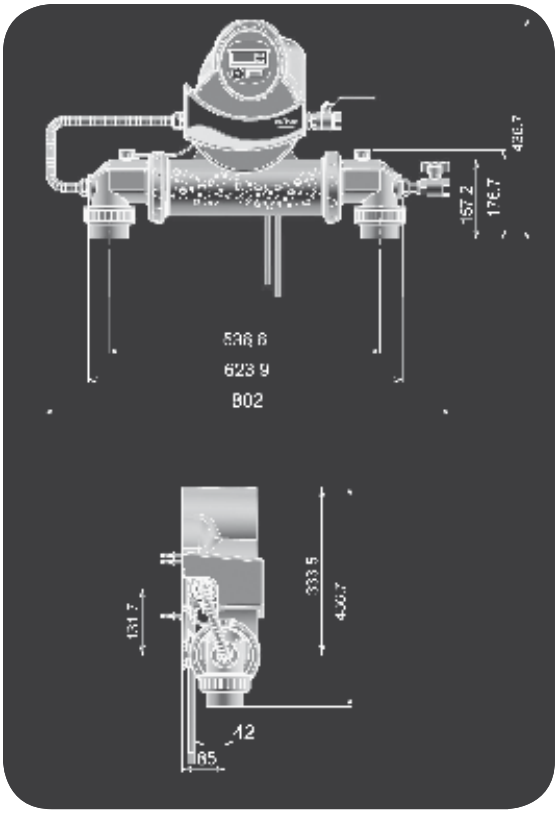
To invert the pool water flow through the exchanger, do the following:

- Unscrew the 2 barrel unions on the circulator, rotate the circulator 180° and remount the unions,
- Remove the temperature sensor from the thermowell on the left and insert it into the thermowell on the right hand side of the heat exchanger.

EC-NA MK-1 and MK-2 models



EC-NA MK-3 and MK-4 models



Climexel
HEAT PUMPS by PROCOPI

DURATION OF THE GUARANTEE

Climexel titanium heat exchangers are covered by a 5 year guarantee. Climexel stainless steel heat exchangers are covered by a 2 year guarantee.

HEATING STUDY

REMEMBER!
With our software application, Procopi's HEATING STUDY, you can precisely size your heat exchanger.
This tool is available for download from procopi.com and on our AquaSoft DVD.

Dealer's stamp:

SPA CONSULT