



Toll Free 1 800 335 6650
www.heatexchangers.ca

SWIMMING POOL HEAT EXCHANGERS

For Use With Boilers, Solar Panels & Heat Pumps



Installation, Operation & Maintenance Guide

www.poolexchangers.com

Approved Use

SEC "Swimming Pool Heat Exchangers" are only approved for heating or cooling pools with boiler water, solar and heat pump installations.

Any other use unless specified by **SEC** is not approved.

SEC declines all liability for any damage associated with or arising from such use.

PRESSURE:

The maximum operating pressure must not exceed:

Heating / Cooling (primary side) 45 psi / 3 bar max.

Pool water (secondary side) 45 psi / 3 bar max.

TEMPERATURE:

The maximum operating temperature must not exceed:

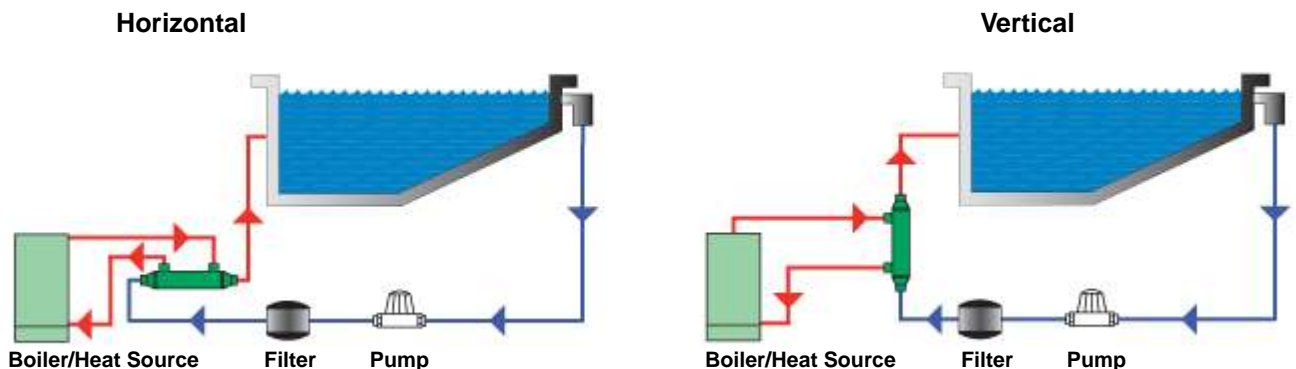
Heating / Cooling (primary side) 250 Degrees F / 120 Degrees C

Pool water (secondary side) 212 Degrees F / 100 Degrees C

Installation

SEC "Swimming Pool Heat Exchangers" should only be installed in a frost-free, dry area away from chlorine or chemical storage.

Before connecting the pool exchanger check for visible signs of damage, the exchanger can be installed above or below the pool water level, positioned either horizontally or vertically with the pipe work.



The Pool Exchanger can be damaged by chemicals. Dosing systems must be placed downstream from the exchanger with a non return valve. If chemicals used, gases must be prevented from entering the exchanger when the filtration system is in use.

The exchanger should always be installed downstream of the pumping and filtration equipment. The boiler/solar water must be pump assisted and the usual precautions taken to prevent air locks. The pool water pump should be controlled by a thermostat in the pool water pipe before the heat exchanger and set at the required pool temperature.

Under no circumstances should our pool exchanger be used in conjunction with ozone systems.

Connecting / Disconnecting

SEC "Swimming Pool Heat Exchangers" should only be installed in a frost-free, dry area with a non aggressive atmosphere.

Before connecting the pool exchanger check for visible signs of damage, the exchanger can be installed above or below the pool water level, positioned either horizontally or vertically with the pipe work. *As shown on page 2*

Before connecting/disconnecting shut off all drainage valves in the piping. When connecting the exchanger check that no debris has been introduced into the primary or secondary circuit pipes.

Operation

The following will help prevent corrosion/damage to your **SEC** pool exchanger. Stainless steel exchangers should not be used with seawater or salt water pools. **SEC** Titanium pool exchangers are available for these applications.

Always maintain the water pH levels between 7.4 and 7.6. The pH levels should never go below 7.2 or above 7.8. Check levels regularly. The pH level does not apply to **SEC** Titanium exchangers.

<i>Chemical</i>	<i>Levels</i>
Free Chlorine	1.0 - 3.0 ppm
pH	7.2 to 7.8
Calcium Hardness	200 - 400 ppm
Alkalinity	100 - 150 ppm
Total Dissolved Solids	less than 1,000 ppm
Bromine	2.4 - 4.0 ppm
Chloride	less than 140 ppm

If by-pass piping is installed ensure all valves are correctly positioned to allow the recommended pool water flow to pass through the pool exchanger.

The filter should be checked regularly, especially sand filters. If sand filters are not working correctly fine particles of sand can flow around the pool circuit causing erosion of the piping, exchanger and pump.

Keep pool free from leaves, grass cuttings, debris etc. This material can decay and increase the pH level.

It is essential that the correct of chemical is added to the pool. To allow dispersion in the pool water, the dose should be made in several areas of the pool. Do not dose near the pool return as this will create a high acidic area which can cause corrosion of the pool equipment.

Shutdown

In Winter areas we recommend draining the exchanger or removing it, in warm areas keep the exchanger full of water and air lock free or drain and remove from service if desired.

Warranty

All **SEC** Swimming Pool Heat Exchangers are guaranteed against manufacturing defaults associated with the product for a period of twelve months from the date of invoice.

SEC Titanium materials incorporate a ten year anti-corrosion guarantee against any damage associated with the pool water.

For full warranty terms, please see the **SEC** Conditions of Sale. A copy of which is available upon request or via download from the **SEC** website.

SPARE PARTS / ASSEMBLY DIAGRAM



Identify Part Required on Models above:

Fax to: 1.902.659.2800 or email to info@secheatexchangers.com
With the following:

Name:

Address:

City:

State/Province:

Zip/Postal Code:

Model#:

Serial #:

Date Purchased:

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