



TRADE PRICE LIST (EX VAT) 2019

Stainless Steel (316) Heat Exchangers Designed For Heating Swimming Pools

AEL have been supplying heat exchangers for use in many applications throughout the UK, Ireland and the Channel Islands for over 20 years.

AEL high quality Stainless Steel Shell and Tube heat exchangers are robust and purpose made to cope with the corrosive atmosphere and water in a swimming pool environment. They are compact in size and are the most efficient method of providing instantaneous heat transfer between fluids in any system designed to heat a swimming pool.

Using AEL Stainless Steel Shell and Tube plate heat exchangers in a pool system is the most cost effective way of utilising every Watt of energy generated from a your heat source to provide a highly efficient swimming pool heating system that requires minimal maintenance while provide long term service.

Please see our “Standard Duty” range of swimming pool Heat Exchanger units below that have been designed to provide you with a quick and easy way to verify the KW required and the cost to heat your Swimming Pool.

AEL recommends that a minimum period of 72 hour is allowed to heat any pool to avoid thermal shock to the tiles or pool wall.

Please see our technical Tips and Advice section at www.aelheating.com/blog/plate-heat-exchangers/ for information on how to correctly empty / fill and heat a swimming pool.

NOTE: All other nonstandard duties for various applications can be quickly designed and quoted for if the details are sent to our technical department at sales@aelheating.com

CONSTRUCTION

- 3-pass construction.
- Corrugated tubes of diameter Ø 8 mm / 0.31 in.
- Robust Welded Heat Exchangers constructed from 316 Stainless Steel.

Standard Swimming Pool Heat Exchangers Design and Pricelist

Design duty for a 72 hour heat up period: -

PRIMARY HEAT SOURCE

Fluid Type Water
 Inlet Temperature 80 °C
 Outlet Temperature 50 °C

SECONDARY POOL

Water
 10 °C
 28.5 °C

POOL WATER VOLUME

<u>MODEL NUMBER</u>	<u>Litres / Metres Cubed m³</u>		<u>KW REQUIRED</u>	<u>PRICE Ex VAT</u>
AEL-ST-REV250S-0169-0006	10,000	10	3	£299.00
AEL-ST-REV250S-0169-0006	20,000	20	6	£299.00
AEL-ST-REV250S-0169-0006	30,000	30	9	£299.00
AEL-ST-REV250S-0169-0006	40,000	40	12	£299.00
AEL-ST-REV250S-0169-0006	50,000	50	15	£299.00
AEL-ST-REV250S-0169-0006	75,000	75	23	£299.00
AEL-ST-REV250S-0169-0007	100,000	100	30	£320.00
AEL-ST-REV250S-0169-0007	125,000	125	37	£320.00
AEL-ST-REV250S-0169-0007	150,000	150	44	£320.00
AEL-ST-REV250S-0169-0007	200,000	200	59	£320.00
AEL-ST-B500-0170-0007	300,000	300	88	£500.00
AEL-ST-B1000-0170-0008	400,000	400	118	£825.00
AEL-ST-B1000-0170-0008	500,000	500	120	£825.00
AEL-ST-B1000-0170-0008	600,000	600	180	£825.00
AEL-ST-B1000-0170-0008	700,000	700	210	£825.00
AEL-ST-B1000-0170-0008	800,000	800	240	£825.00
AEL-ST-B1000-0170-0008	900,000	900	270	£825.00
AEL-ST-B1000-0170-0008	1000,000	1000	299	£825.00

NOTE: AEL can provide designs and quotations for pool sizes not shown above.

Carriage Charge: Model REV and B500 £20.00 Ex Vat (Per unit) Model B1000.....£30.00 Ex Vat (Per unit)

Consignee responsible for offloading from the nearest hard standing position.

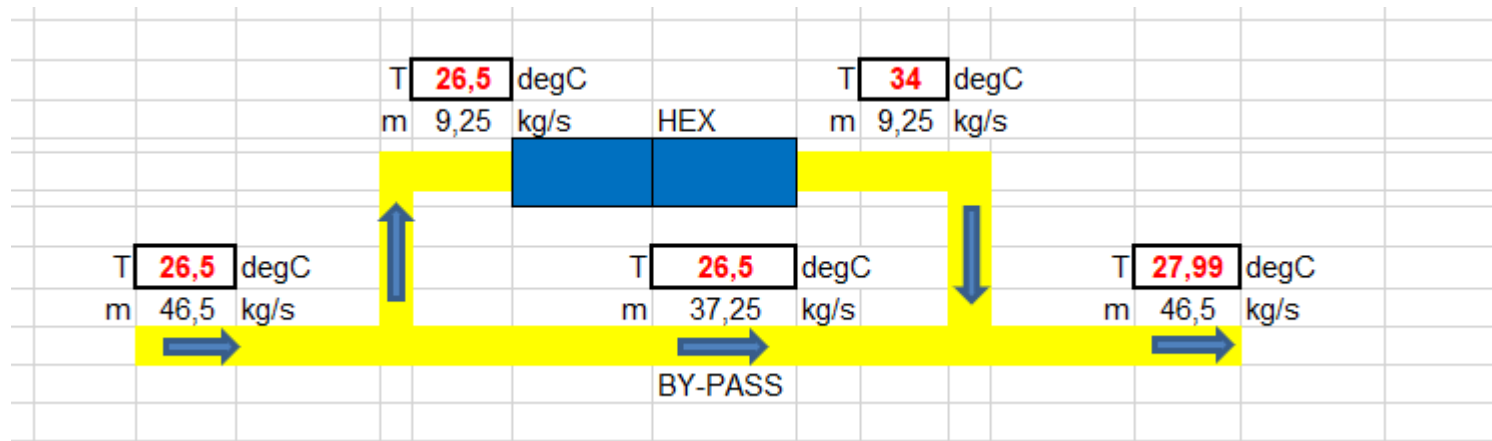
BASIC GUIDE TO A SYSTEM LAYOUT WHEN INSTALLING A SWIMMING POOL HEAT EXCHANGER WITH BYPASS

Example : For 500,000 Litre Pool Volume

Once a swimming pool is up to the desired temperature the kw demand reduces and the temperature just needs to be maintained.

A. Inlet (return) pool water temperature 26.5 oC **B.** Flow through the by-pass = 80% **C.** Flow through the heat exchanger = 20%

To maintain the temperature of a pool the return pool water is heated from 26.5 oC up to 34 oC through the heat exchanger and then mixed with the by pass water. The flow rate of the pool water going through the by pass should be controlled and regulated with a commissioning valve set.



Kg per second = Litres per second.

MODEL AEL-ST-REV



MODEL AEL-ST-B500 & AEL-ST-B1000



MANUFACTURED IN EUROPE FOR THE UK

To view the AEL Heat Exchanger home page please go to www.aelheating.com