Chillers - Technical data

A reliable product, ingenious and practical. A sensor detects the water temperature at the inlet and the controller adjusts it to the desired temperature. A digital display allows you to properly adjust the required temperature degree.

An AQUAMERIK advisor will be happy to calculate your energy needs to heat or cool your water and help you to select the suited model for your application. Our temperature controllers are fully compatible with applications in freshwater or saltwater.

- **Integrated digital thermometer.**
- **Easy-to-read LCD display.**
- **Internal microprocessor.**
- **Can be remotely installed.**

HP SELECTION TAB

CAPACITY DEPENDING ON WATER VOLUME AND TEMP° TO LOWER (°F)

REQUIRED POWER FOR CHILLER

	5°	10°	15°	20°	25°	30°	35°	40°
1/5 HP	450	225	200	150	125	100	75	60
	225	125	100	80	65	50	40	25
1/4 HP	650	300	275	200	175	150	100	90
	350	200	160	150	125	80	55	50
1/3 HP	900	450	375	275	250	225	150	125
	475	225	200	150	125	100	85	70
1/2 HP	1500	750	625	450	425	375	275	200
	800	410	325	225	200	175	150	120
3/4 HP	2500	1250	1000	750	700	650	450	325
	1250	675	550	400	375	350	250	200
1 HP	3500	2000	1500	1000	950	900	600	450
	1750	1100	800	550	500	475	340	250
1½ HP	6000	3500	2750	1750	1500	1400	1000	750
	3250	1750	1500	900	800	750	550	425
2 HP	8000	5000	3750	2500	2000	1900	1400	1000
	4500	2750	2000	1250	1000	950	750	550
3 HP	12,500	8500	6000	4000	3500	3000	2250	1750
	6750	4500	3250	2000	1750	1500	1250	950
4 HP	16,000	11,500	8000	5750	5000	4000	3100	2250
	8750	6250	4500	3000	2750	2000	1500	1250
5 HP	20,000	14,500	10,000	7250	6250	5000	4000	3000
	11,000	7750	5500	4000	3250	2750	2250	1650
8 HP	35,000	21,000	14,500	10,500	9000	7500	6250	6500
	17,500	11,000	7750	5750	4750	4000	3250	3500
10 HP	50,000	29,000	19,500	14,500	12,000	10,500	8500	8500
	27,500	15,750	10,500	7750	6500	5750	4500	4500
15 HP	90,000	45,000	30,000	22,500	18,500	16,500	13,500	10,000
	47,500	22,500	16,500	12,250	10,000	9000	7250	5500
20 HP	125,000	60,000	40,000	30,000	25,000	22,500	18,500	15,500
	68,500	33,000	22,000	16,500	13,750	12,250	10,000	8500

GRAY AREA = TANKS WITHOUT INSULATION

How to use the upper tab:

First, choose the temperature to lower in the top of the tab (difference between the desired temperature and the warmest temperature of the room where the pool is installed).

Secondly, under the “temperature to lower” column, find the water volume (us gallons) that is the nearest to your tank’s volume. If your tanks are insulated, use the white area.

Thirdly, you just have to look in the left “HP” column to determine the required power for the chiller.

Chillers & heat pumps

Aquamerik is a pioneer in the distribution of efficient titanium chillers and heat pumps to provide environmental water temperature control for the aquatic market. After hundreds of installations around the world, we are flattered to be a major player in this reputed technology. Each part that comes into contact with water is completely inert and non-corrosive, eliminating environmental contamination. In addition, the heat exchange shell, coil and temperature probe use pure titanium for high heat exchange rate and maximum efficiency. When you choose a chiller or heat pump, combined with our electronic temperature controller, you enjoy the confidence of having the safest, most reliable and failure-free system ever manufactured. Each is designed to be installed in line with a recirculating system. Automatic heating-chilling units up to 1 Hp incorporate a titanium exchange coil plus a separate titanium heater. The heating element can be removed without disconnecting from the water supply or risking any contamination.

Aquarium chillers

Maintain optimum water temperature by lowering the water temperature of your tank. Digital LED Temperature Display Control accurately maintains desired temperature. Corrosion resistant titanium heat exchanger for efficient cooling. Quick easy set-up & cleaning maintenance.

PC-280

ITEM	HP	AMPS	VOLTS / PH	INLET / OUTLET	IDEAL FLOW	DIMENSIONS (le. x wi. x he.)	PRICE
PC-280	1/10	2.2	115-1	1/2” - 3/4” INS	10 - 40 gpm	16” x 9” x 19”	741.00 $
PC-650	1/4	3.0	115-1	3/4” INS	10 - 40 gpm	17” x 12” x 21”	995.00 $
PC-050	1/2	4.4	115-1	3/4” INS	10 - 40 gpm	18” x 13” x 22”	1 475.00 $

Water chillers with titanium heat exchanger

Compatible with reservoirs and aquariums, these water chillers feature a commercial-grade titanium heat exchanger for optimum performance and corrosion resistance. Ideal for your aquaculture projects. Voltage of 120-60Hz, inlet/outlet of 1”.

ITEM	HP	AMPS	WATTS	BTUH	TANK CAPACITY	DIMENSIONS (le. x wi. x he.)	PRICE
R728707	1/2	4.4	510	5,115	1.0 gal.	35” x 14” x 21”	1 526.00 $
R728708	1	8.0	870	8,525	1.0 gal.	35” x 14” x 21”	1 735.00 $
R728709	1½	10.5	1150	11,935	1.5 gal.	42” x 15” x 23”	2 046.00 $

Air-cooled coil water chillers

These chillers are perfect for hydroponics, fisheries research, education systems, lobster & seafood holding tank, and much more. Place the chiller near the tank, drop the titanium coil in the water and turn it on. Water circulation past the coil is required. If there is no circulation, place an air diffuser under or attach to the coil. All units have been pretested and have 60-Hz motors with 4’ power cord.

ITEM	HP	AMPS	VOLTS / PHASE	WATTS	DIMENSIONS (le. x wi. x he.)	PRICE
AQCY-3	1/4	5.4	115	621	14” x 12” x 11”	1 869.00 $
AQCY-4	1/3	7.2	115	828	18½” x 13” x 11”	1 978.20 $
AQCY-5	1/2	9.5	115	1092	18½” x 15½” x 13”	3 021.90 $
AQCY-6	1/2	4.8	230 / 1	1104	18½” x 15½” x 13”	3 021.90 $

Air-cooled compact water chillers

These in-line, air-cooled water chillers are built with helical titanium evaporator coils for maximum cooling efficiency. Titanium is safe for all aquatic animals in fresh or salt water systems. The low profile design allows for easy placement in tight places and the quiet, internal, spring-mounted hermetic motor / compressor provides years of reliable service. All chillers come standard with a black ABS cover and digital electronic controller mounted on a 4’ cable.

(*) Safety flow for TI-CHAM models.

AQDS

TI-CHAM

ITEM	HP	BTUH	AMPS	VOLTS / PHASE	FLOW (min / max)	DIMENSIONS (le. x wi. x he.)	PRICE
AQDS-3	1/4	3,000	5.4	115/1	8 / 15 gpm	18¾” x 12” x 11”	1 719.90 $
TI-CHAM-1*	1/4	3,000	4.9	115/1	10 / 40 gpm	20” x 18” x 12”	2 349.55 $
AQDS-4	1/3	4,000	7.2	115/1	10 / 20 gpm	22½” x 13” x 11”	1 839.60 $
TI-CHAM-2*	1/3	4,000	7.3	115/1	10 / 40 gpm	20” x 18” x 12”	2 747.50 $
AQDS-5	1/2	6,000	9.5	115/1	12 / 25 gpm	23¾” x 15¼” x 13”	2 784.60 $
AQDS-6	1/2	6,000	4.8	230/1	12 / 25 gpm	23¾” x 15¼” x 13”	2 784.60 $
TI-CHAM-3*	1/2	6,000	9.3	115/1	10 / 40 gpm	21” x 20” x 13”	3 079.30 $
AQDS-7	3/4	9,000	13	115/1	15 / 30 gpm	24” x 20¼” x 15¼”	4 063.50 $
AQDS-8	3/4	9,000	7	230/1	15 / 30 gpm	24” x 20¼” x 15¼”	4 063.50 $
TI-CHAM-4*	3/4	9,000	15	115/1	10 / 40 gpm	27” x 26” x 16”	4 221.00 $
TI-CHAM-4-2*	3/4	9,000	7.1	230/1	10 / 40 gpm	27” x 26” x 16”	4 221.00 $
AQDS-9	1	12,000	7.2	230/1	20 / 35 gpm	25¾” x 23¾” x 15¼”	4 743.90 $
TI-CHAM-5*	1	12,000	7.3	230/1	10 / 40 gpm	27” x 26” x 16”	4 636.80 $
AQDS-10	1.5	21,000	10.5	230/1	25 / 40 gpm	26¼” x 26” x 17½”	7 247.10 $

Chillers & heat pumps (continued)

Heating & cooling water units

With the ability of cooling and heating water, these units contain non-corrosive titanium coil and a titanium bayonet style heater. Programmable time delay, reading in °C and °F. 1” FPT connection. Enclosure and safety flow included.

ITEM	HP	BTUH	AMPS	VOLTS / PHASE	WATTS	DIMENSIONS (le. x wi. x he.)	PRICE
UTCH-1	1/4	2,500	4.9	115/1	500	20” x 18” x 12”	2 867.20 $
UTCH-2	1/3	4,000	7.3	115/1	500	20” x 18” x 12”	2 967.65 $
UTCH-3	1/2	6,000	9.3	115/1	500	21” x 22” x 13”	3 775.45 $
UTCH-4	3/4	9,000	15	115/1	800	25” x 23” x 16”	4 798.15 $
UTCH-5	1	12,000	7.3	230/1	800	27” x 27” x 16”	5 213.95 $

Air-cooled water chillers

These large chillers have an insulated heat exchanger with titanium helix coils and commercial duty condensing units mounted on a stainless steel frame with bolt down leg tabs. Suitable for outdoor installation, but should be protected from direct weather. Digital temperature controller is in a splash-proof NEMA box with easy push-button programming. Controller displays in either °F or °C.

ITEM	HP	PHASE	AMPS @ 208-230V	GPM NEEDED	DIMENSIONS (le. x wi. x he.)	PRICE
AMT-2	2	1	9 / 58 *	20 - 40	44” x 33” x 62”	9 945.60 $
AMT-3	3	1	14 / 72 *	20 - 40	44” x 33” x 66”	11 850.30 $
AMT-3-3	3	3	12 / 77 *	20 - 40	44” x 33” x 66”	11 850.30 $
AMT-4	4	1	21 / 109 *	30 - 60	51” x 38” x 62”	14 013.30 $
AMT-4-3	4	3	15 / 91 *	30 - 60	51” x 38” x 62”	14 013.30 $
AMT-5	5	1	27 / 158 *	30 - 60	56” x 38” x 70”	15 729.00 $
AMT-5-3	5	3	19 / 137 *	30 - 60	56” x 38” x 70”	15 729.00 $
AMT-7.5	7.5	3	28 / 164 *	60 - 120	48” x 42” x 68”	22 675.80 $
AMT-10	10	3	35 / 225 *	60 - 120	58” x 46” x 68”	26 338.20 $
AMT-15	15	3	55 / 164 *	120 - 180	112” x 56” x 75”	49 383.60 $
AMT-20	20	3	83 / 267 *	120 - 180	112” x 56” x 89”	61 166.70 $
AMT-25	25	3	83 amps	75 - 150	to be determined	70 549.50 $
AMT-30	30	3	94 amps	75 - 150	to be determined	77 832.00 $
AMT-35	35	3	107 amps	75 - 150	to be determined	85 905.00 $
AMT-40	40	3	142 amps	75 - 150	to be determined	96 211.88 $
AMT-50	50	3	160 amps	75 - 150	to be determined	122 771.70 $
AMT-60	60	3	94 amps **	75 - 150	to be determined	140 097.60 $
AMT-70	70	3	107 amps **	75 - 150	to be determined	154 629.00 $
AMT-80	80	3	142 amps **	75 - 150	to be determined	173 181.38 $

(*) Rated load amps / Locked rotor amps (RLA / LRA). **(**) 2 compressors (voltage x2).**

AMT-2
AMT-3
AMT-4
AMT-5

AMT-7.5
AMT-10

Heat pumps (cold / hot)

These pumps are designed for a wide range of commercial duty applications. All pumps feature an insulated titanium heat exchanger and a commercial condensing unit, mounted together on a stainless steel frame. Suitable for outdoor installation and guaranteed to reliably deliver stable temperature control in the range of 40° to 85ºF (4° - 29°C). Voltage of 208-230.

AHP-1 AHP-2 AHP-3
AHP-4 AHP-5

AHP-15
AHP-20

AHP-7.5
AHP-10

ITEM	HP	NOMINAL BTUH	PHASE	AMPS (RLA / LRA)*	FLOW (min / max)	DIMENSIONS (le. x wi. x he.)	PRICE
AHP-1	1.5	18,000	1	5.9 / 38.6	20 - 40 gpm	38” x 26” x 62”	10 122.00 $
AHP-2	2	24,000	1	8.7 / 57.8	20 - 40 gpm	38” x 26” x 62”	10 999.80 $
AHP-3	3	36,000	1	17.6 / 79	20 - 40 gpm	48” x 35” x 62”	13 635.30 $
AHP-3-3	3	36,000	3	7.8 / 75	20 - 40 gpm	48” x 35” x 62”	13 635.30 $
AHP-4	4	48,000	1	18.6 / 93.4	30 - 60 gpm	48” x 35” x 71”	15 460.20 $
AHP-4-3	4	48,000	3	11.7 / 100.1	30 - 60 gpm	50” x 35” x 71”	15 460.20 $
AHP-5	5	60,000	1	25 / 148	30 - 60 gpm	50” x 35” x 71”	17 703.00 $
AHP-5-3	5	60,000	3	17.3 / 123	30 - 60 gpm	58” x 35” x 71”	17 703.00 $
AHP-7.5	7.5	90,000	3	29 / 164	60 - 120 gpm	50” x 43” x 68”	25 229.40 $
AHP-10	10	120,000	3	36 / 225	60 - 120 gpm	61” x 48” x 74”	29 297.10 $
AHP-15	15	175,000	3	60 / 164	120 - 180 gpm	112” x 54” x 75”	56 578.20 $
AHP-20	20	240,000	3	83 / 267	120 - 180 gpm	112” x 54” x 89”	70 079.10 $

(*) Rated load amps / Locked rotor amps (RLA / LRA).

Serpentine exchangers

Our reliable heat exchangers have a thickness of 18 gauge metal tubing. Every inch of coil surface is an active exchange area. The tubing diameter is 1" by default, but also available in 1/2", 5/8" and 3/4" of diameter. The exchanger connection is 1" M/NPT. Available in titanium (by default), steel and 316 stainless steel (on demand).

ITEM	EXCHANGE AREA	LENG. x DEPTH	# OF PASSES	WGT.	PRICE (titanium)
SP4-24T	2.6 ft²	24" x 36"	4	10 lbs	954.00 $
SP4-36T	3.6 ft²	36" x 36"	4	12 lbs	1 270.00 $
SP4-48T	4.6 ft²	48" x 36"	4	14 lbs	1 546.00 $
SP4-60T	5.7 ft²	60" x 36"	4	16 lbs	1 812.00 $
SP4-78T	7.3 ft²	78" x 36"	4	20 lbs	2 220.00 $
SP4-96T	8.8 ft²	96" x 36"	4	24 lbs	2 630.00 $
SP6-20T	3.5 ft²	20" x 48"	6	12 lbs	1 168.00 $
SP6-30T	4.8 ft²	30" x 48"	6	14 lbs	1 540.00 $
SP6-40T	6.1 ft²	40" x 48"	6	17 lbs	1 876.00 $
SP6-50T	7.4 ft²	50" x 48"	6	20 lbs	2 214.00 $
SP6-60T	8.7 ft²	60" x 48"	6	24 lbs	2 550.00 $
SP6-70T	10.0 ft²	70" x 48"	6	27 lbs	2 886.00 $

Thermax exchangers (316 stainless steel)

- A & B connections in M/NPT.
- Exchange surface between 1.1 and 15.0 ft².
- Temperature from -50° to 250°C (-60° / 480°F).
- Spiral (circuit B): 360 PSI (2482 kPa or 25 bar).
- Chemistries compatible with 316L and silicone baffles (circuit B only).
- 1/3 the size of an equivalent tubular heat exchanger at a lower price point.

ITEM	EXCHANGE AREA	LENG x Ø	CONN. (A x B)	WGT.	PRICE
IS11-275	1.1 ft²	6.25" x 2.75"	3/4" x 1/2"	5 lbs	2 328.00 $
IS25-275	2.5 ft²	10.25" x 2.75"	3/4" x 1/2"	7 lbs	2 692.00 $
IS38-275	3.8 ft²	14.25" x 2.75"	3/4" x 1/2"	10 lbs	2 784.00 $
IS38-375	3.8 ft²	10.75" x 3.75"	1" x 1/2"	15 lbs	3 252.00 $
IS58-375	5.8 ft²	15.50" x 3.75"	1" x 3/4"	20 lbs	4 122.00 $
IS78-375	7.8 ft²	20.25" x 3.75"	1" x 3/4"	24 lbs	4 806.00 $
IS150-475	15.0 ft²	20.25" x 4.75"	1¼" x 3/4"	30 lbs	7 012.00 $

Titanium heat exchangers

These heat exchanger packages are complete refrigerant-to-water systems that are safe for both fresh and salt water systems. The heat exchanger can be connected to a central refrigerant loop or to a dedicated remote condensing unit. These packages are ideal for overseas installations where the condensing unit can be purchased and serviced locally, saving significant freight and importation costs.

Nominal BTU capacity is based on using R-134A refrigerant (for models **AHX03-DX** thru **AHX12-DX**) or the R-410A refrigerant (for models **AHX24-DX** and +). If another type of refrigerant will be used, please consult us before ordering. 24-volt power supply required.

Note: these exchangers are manufactured for connection to cooling-only condensing units and will not work with a heat pump condensing unit.

AHX24-DX to AHX60-DX

AHX03-DX to AHX12-DX

AHX90-DX to AHX360-DX

ITEM	HP	NOMINAL BTUH	KW	FLOW (min / max)	REFRIGERANT (in/out) *	WATER (in/out)	DIMENSIONS (le. x wi. x he.)	PRICE
AHX03-DX	1/4	3,000	0.8	8 / 15 gpm	1 @ 3/8" / 3/8"	3/4" FIPT	23" x 7" x 18"	1 686.40 $
AHX04-DX	1/3	4,000	1.2	10 / 20 gpm	1 @ 3/8" / 3/8"	3/4" FIPT	25" x 7" x 18"	1 721.60 $
AHX06-DX	1/2	6,000	1.8	12 / 25 gpm	1 @ 3/8" / 1/2"	1½" FIPT	26" x 7" x 18"	1 756.80 $
AHX09-DX	3/4	9,500	2.6	20 / 35 gpm	1 @ 3/8" / 1/2"	1½" FIPT	32" x 7" x 18"	2 041.60 $
AHX12-DX	1	12,000	3.5	25 / 40 gpm	1 @ 3/8" / 5/8"	1½" FIPT	35" x 7" x 18"	2 344.00 $
AHX24-DX	2	24,000	7.0	20 / 40 gpm	1 @ 3/8" / 5/8"	2" SLIP	29" x 14" x 26"	4 603.20 $
AHX36-DX	3	36,000	10.5	20 / 40 gpm	1 @ 3/8" / 5/8"	2" SLIP	36" x 14" x 26"	5 113.60 $
AHX48-DX	4	48,000	14.0	30 / 60 gpm	1 @ 3/8" / 1-1/8"	2" SLIP	45" x 14" x 26"	5 408.00 $
AHX60-DX	5	60,000	17.5	30 / 60 gpm	1 @ 3/8" / 1-1/8"	2" SLIP	52" x 14" x 26"	5 918.40 $
AHX90-DX	7.5	90,000	28.0	100 / 180 gpm	1 @ 5/8" / 1-3/8"	3" SLIP	20" x 25" x 52"	10 996.80 $
AHX120-DX	10	120,000	35.0	100 / 180 gpm	1 @ 5/8" / 1-3/8"	3" SLIP	20" x 25" x 62"	13 240.00 $
AHX150-DX	12.5	150,000	44.0	90 / 180 gpm	2 @ 3/8" / 1-3/8"	3" SLIP	20" x 20" x 66"	P.O.R.
AHX180-DX	15	175,000	51.2	100 / 180 gpm	1 @ 5/8" / 1-5/8"	3" SLIP	20" x 25" x 80"	16 926.40 $
AHX240-DX	20	223,000	65.3	100 / 180 gpm	2 @ 1/2" / 1-3/8"	3" SLIP	20" x 25" x 92"	21 758.40 $
AHX300-DX	25	300,000	87.8	90 / 180 gpm	7/8" / 2-1/8"	3" SLIP	20" x 20" x 72"	P.O.R.
AHX360-DX	30	360,000	105.0	90 / 180 gpm	2 @ 7/8" / 2-1/8"	3" SLIP	20" x 20" x 88"	P.O.R.

(*) Inlet/outlet connection in FIPT.

Tubular exchangers

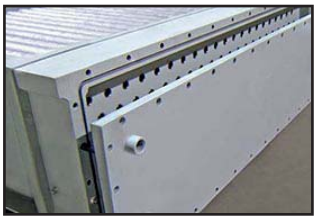
Specifications:

- 1” tube diameter.
- 1” M/NPT connection.
- 20 gauge of thickness.
- Maximum pressure of 100 PSI.
- Every inch of coil surface is an active exchange area.
- Available in titanium (by default), steel and 316 stainless steel (on demand).

ITEM	EXCHANGE AREA	NO. OF TUBES	LENGTH x Ø	WEIGHT	PRICE (titanium)
T8G-24	4.6 ft²	8	32 x 61 cm (12.5” x 24”)	6 kg	1 208.00 $
T8G-30	5.6 ft²	8	32 x 75 cm (12.5” x 30”)	7 kg	1 372.00 $
T8G-36	6.7 ft²	8	32 x 92 cm (12.5” x 36”)	7 kg	1 498.00 $
T12G-24	6.8 ft²	12	47 x 61 cm (18.5” x 24”)	7 kg	1 702.00 $
T12G-30	8.4 ft²	12	47 x 75 cm (18.5” x 30”)	8 kg	1 928.00 $
T12G-36	10.0 ft²	12	47 x 92 cm (18.5” x 36”)	10 kg	2 118.00 $
T16G-24	9.4 ft²	16	62 x 61 cm (24.5” x 24”)	9 kg	2 252.00 $
T16G-30	11.5 ft²	16	62 x 75 cm (24.5” x 30”)	12 kg	2 548.00 $
T16G-36	13.6 ft²	16	62 x 92 cm (24.5” x 36”)	13 kg	2 798.00 $
T20G-24	11.5 ft²	20	78 x 61 cm (30.5” x 24”)	11 kg	2 882.00 $
T20G-30	14.2 ft²	20	78 x 75 cm (30.5” x 30”)	13 kg	3 234.00 $
T20G-36	16.8 ft²	20	78 x 92 cm (30.5” x 36”)	16 kg	3 552.00 $
T24G-24	13.7 ft²	24	93 x 61 cm (36.5” x 24”)	17 kg	3 394.00 $
T24G-30	16.8 ft²	24	93 x 75 cm (36.5” x 30”)	19 kg	3 812.00 $
T24G-36	20.0 ft²	24	93 x 92 cm (36.5” x 36”)	21 kg	4 194.00 $
T28G-24	15.8 ft²	28	108 x 61 cm (42.4” x 24”)	18 kg	3 814.00 $
T28G-30	19.5 ft²	28	108 x 75 cm (42.4” x 30”)	21 kg	4 298.00 $
T28G-36	23.2 ft²	28	108 x 92 cm (42.4” x 36”)	23 kg	4 738.00 $

Extruded finned tube exchangers *

At the heart of most heat exchanger’s technology lies these aluminum extruded finned tubes, the lead actors on which rests the efficiency and longevity of our units. Their particular design, mono or bimetal, provides great resistance as well as exceptional heat transfer characteristics. The mechanical bond joining liner tubes and aluminum wall offers superior durability and insures no corrosion occurs between the fins and the tubes. Extend the lifetime of your exchangers and improve their efficiency and reliability by combining them with the best technology, thanks to these extruded finned tubes.



Generator & motor cooler exchangers *

Allowing access to the tubes internal surfaces, these generator and motor cooler exchangers are ideal for use with corrosive fluids or heavy fouling process. The tubes interior may then be cleaned periodically; insuring improved efficiency and longevity for your exchanger. In addition with the use of water boxes as inlet and outlet collectors, numerous thermal configurations are possible in order to always optimize better the heat exchange between the two fluids.

Steam exchangers *

The steam exchangers have benefited from our significant experience. The coil’s purpose is to transfer heat from steam. Steam can be unpredictable if all aspects of the heat exchanger, either thermal or mechanical, are not controlled properly. Accordingly, we are pleased to offer a wide range of specially designed steam heat exchangers, custom made to meet the exacting needs of your process. Available in different models depending on your needs (Type Z / AFZ / VC / UH).

Gasketed plate & frame exchangers *

These exchangers have the advantage of offering a small footprint and a flexible design, while still being very efficient in heat transfers. They are the perfect choice for a wide range of applications. The technological innovations, like patented “Plug-in” gaskets, tie rods side extraction or auto-blocking bolts system, will surely make the difference in lowering the time and cost of your maintenances.

Shell & tube exchangers *

The physico-chemical properties, the phases (liquid, gaseous or solid) and the corrosivity of the fluids involved in industrial processes are extremely varied. The heating or cooling of such fluids requires a flexible and efficient exchanger technology. The standardized exchangers cannot meet all the constraints present in these processes. These exchangers are custom-made, thus integrating many specific features to perfectly meet your needs.

(*) Prices and other models available on demand.

Water heaters

These industrial type water heaters are excellent for an automatic control of your aquaculture system water temperature. Available in single tube (single phase) with a capacity from 1000 to 6000 watts and triple tube (triple phase) from 3000 to 18,000 watts of capacity. In general, it is recommended to install many elements that can combine the needed total capacity (watts) rather than using one big element, giving you more flexibility and safety. Our technicians can calculate your needs in heating and determine the element model and the unit control best suited for your application.

Aquamerik has in stock all immersion elements in a wide range of models, material, strength and control. For these products, do not use 316 stainless steel models for applications in salt water, only the titanium models are recommended. One-year warranty. Other voltage and strength available, contact us for more information.

			DIMENSIONS		316 STAINLESS STEEL		TITANIUM	
	WATTS	VOLTS	HEAT.	LENG.	ITEM	PRICE	ITEM	PRICE
"Over the side" heater (S1ES & S1ET)	1000	120/1ph	7”	11”	S1ES1111	441.76 $	S1ET1111	533.28 $
	1000	240/1ph	7”	11”	S1ES1211	441.76 $	S1ET1211	533.28 $
	1700	120/1ph	12”	17”	S1ES17117	547.36 $	S1ET17117	652.96 $
	1700	240/1ph	12”	17”	S1ES17217	547.36 $	S1ET17217	652.96 $
"Bottom" heater (S1EBS & S1EBT)	1000	120/1ph	6”	14”	S1EBS1114A	760.32 $	S1EBT1114A	941.60 $
	1000	240/1ph	6”	14”	S1EBS1214A	760.32 $	S1EBT1214A	941.60 $
	1700	120/1ph	10”	18”	S1EBS17118A	860.64 $	S1EBT17118A	1 054.24 $
	1700	240/1ph	10”	18”	S1EBS17218A	860.64 $	S1EBT17218A	1 054.24 $
Single metal heater, 1-phase	1000	120/1ph	7”	11”	SA1111	278.08 $	TA1111	373.12 $
	1800	120/1ph	12”	17”	SA18117	320.32 $	TA18117	445.28 $
	2500	240/1ph	17”	23”	SA25223	352.00 $	TA25223	529.76 $
	3500	240/1ph	23”	29”	SA35229	380.16 $	TA35229	616.00 $
	5000	240/1ph	32”	39”	SA5239	519.20 $	TA5239	793.76 $
	6000	240/1ph	40”	47”	SA6247	556.16 $	TA6247	848.32 $
Triple metal heater, 3-phase	3000	240/3ph	6”	11”	3S3211	1 188.00 $	3T3211	1 544.40 $
	6000	240/3ph	10”	17”	3S6217	1 465.20 $	3T6217	2 046.00 $
	9000	240/3ph	16”	23”	3S9223	1 577.40 $	3T9223	2 303.40 $
	12,000	240/3ph	20”	29”	3S12229	1 676.40 $	3T12229	2 765.40 $
	15,000	240/3ph	25”	35”	3S15235	1 958.00 $	3T15235	3 220.80 $
	18,000	240/3ph	30”	40”	3S18240	2 112.00 $	3T18240	3 440.80 $
Single L-shaped heater, 1-phase	1000	120/1ph	11”	24”	LSA1111	563.20 $	LTA1111	786.72 $
	1800	120/1ph	16”	24”	LSA18116	603.68 $	LTA18116	839.52 $
	2500	240/1ph	21”	24”	LSA25221	624.80 $	LTA25221	874.72 $
	3500	240/1ph	27”	24”	LSA35227	654.72 $	LTA35227	957.44 $
	5000	240/1ph	36”	48”	LSA5236	748.00 $	LTA5236	1 226.72 $
	6000	240/1ph	44”	48”	LSA6244	786.72 $	LTA6244	1 277.76 $
Triple L-shaped heater, 3-phase	3000	240/3ph	13”	15”	3LS3213	1 381.60 $	3LT3213	1 938.20 $
	6000	240/3ph	17”	37”	3LS6217	1 663.20 $	3LT6217	2 523.40 $
	9000	240/3ph	22”	37”	3LS9222	1 984.40 $	3LT9222	2 888.60 $
	12,000	240/3ph	26”	37”	3LS12226	2 233.30 $	3LT12226	3 102.00 $
	15,000	240/3ph	31”	37”	3LS15231	2 336.40 $	3LT15231	3 680.60 $
	18,000	240/3ph	36”	50”	3LS18236	2 505.80 $	3LT18236	4 195.40 $
Tubular screw plug heater, 1¼” M/NPT, 1-phase	1000 (1¼”)	120/1ph	10”	--	STA1110	489.28 $	TTA1110	1 358.72 $
	1800 (1¼”)	120/1ph	15”	--	STA18115	526.24 $	TTA18115	1 446.72 $
	2500 (1¼”)	240/1ph	20”	--	STA25220	561.44 $	TTA25220	1 499.52 $
	3500 (1¼”)	240/1ph	26”	--	STA35226	633.60 $	TTA35226	1 619.20 $
	5000 (1¼”)	240/1ph	35”	--	STA5235	665.28 $	TTA5235	1 714.24 $
	6000 (1¼”)	240/1ph	43”	--	STA6243	702.24 $	TTA6243	1 805.76 $

Thermal protectors for heater

These replacement and resettable protectors work with every heaters found in this page. When the water level is at a low point, the electric current that normally goes to the heater is broken. The **2804** models include an alarm that activates when there is a high-temperature or low-water level.

Available in “over the side” and “L-shaped” versions.

6021

2804

ITEM	DESCRIPTION	PRICE
6021-18-R	“Over the side” replacement thermal protector.	68.80 $
6021-85-R	“L-shaped” replacement thermal protector.	84.80 $
2804-18-R	“Over the side” resettable thermal protector.	68.80 $
2804-85-R	“L-shaped” resettable thermal protector.	84.80 $

Titanium heating elements

400, 500, 800, 1000 & 1500-watt elements available in titanium (voltage of 115V / 60Hz). The perfect product for large aquariums thanks to its performance and reliability. Easy to install since the element and its support for tanks are included. These heaters do not come with a thermostat since a simple failure of it could result to the total lost of the element.

That's why we use a high quality industrial controller to ensure a safe tracking for years to come. A 6 foot long power cable comes with every 250 to 400 watts heating elements and 10 foot long for those between 500 and 1500. It is possible to adjust the temperature between -34° and 104°C. The temperature controllers are sold separately except for the **SHTCE** models (please refer to the ETC series in the "Controllers for heating elements" item tab).

SHTCE1000S
SHTCE1500S

ITEM	ELEMENT	Ø x LENG.	CABLE	PRICE
SHW250	250 watts	3/4" x 10¾"	6'	75.60 $
SHW300	300 watts	3/4" x 10-5/8"	6'	96.60 $
SHW400	400 watts	3/4" x 11-7/16"	6'	77.00 $
SHW500-10	500 watts	3/4" x 11-7/16"	10'	133.00 $
SHW500-20	500 watts	3/4" x 11-7/16"	20'	145.60 $
SHW800	800 watts	1" x 14-3/16"	10'	184.80 $
SHW1000	1000 watts	1" x 16-3/8"	10'	201.60 $
SHTCE1000S*	1000 watts	1" x 16-3/8"	10'	400.00 $
SHTCE1500S*	1500 watts	1" x 20½"	10'	420.00 $
SHW1500	1500 watts	1" x 20½"	10'	238.00 $

(*) Controller included.

Temperature controllers with touch panel

The **HMI** controllers offer various new ways to manage the temperature while giving the best performance you can find on a controller made for heating elements. Each model has a 2.78" x 2.08" touch panel which gives accurate navigation control, with the NEMA 4X graded housing resistant against corrosion and a 10' long fluoropolymer temperature probe.

From now on, these next generation controllers allow you to control the temperature at a remote distance with the help of your computer, cellphone or digital tablet. Among other features unique to this series of controllers: full-time password protection of your controller, ability to display the database tendencies, alarm system configuration, Ethernet communication and a USB connection.

ITEM	MAX AMPS	VOLTAGE	WEIGHT	PRICE
HMI-402	40	240 V	16 lbs	5 556.00 $
HMI-802	80	240 V	23 lbs	6 098.00 $
HMI-1252	125	240 V	27 lbs	6 604.00 $

Controllers for heating elements

Select the controller according to the required heaters amperage by preserving a safety margin of 10%. The temperature controllers electronically regularise the water temperature of your tanks while powering the heaters on or off.

The controllers maintain the temperature you will have selected on the digital panel. Various models are available with the temperature digital display. The control units can receive one or more heating elements if you respect the maximum amperage. The **ETSW** series includes a NEMA 4X graded housing and a R1 SPDT relay of 20 amps @ 240 VAC.

QDRG50

ETC

ETSW

DRAE

DRA

DLC

ITEM	MAX AMPS	VOLTAGE	WEIGHT	PRICE
ETC1120	8	24 VAC	3 lbs	135.45 $
ETC1110	8	115 / 230 volts	3 lbs	129.00 $
ETC2110*	8	115 / 230 volts	3 lbs	212.00 $
QDRG50-1	15	120 volts	3 lbs	414.92 $
QDRG50-2	8	240 volts	3 lbs	414.92 $
DRAE15-1**	15	120 volts	3 lbs	486.00 $
DRAE15-2**	8	240 volts	3 lbs	666.00 $
ETSW150	20	90 - 255 VAC	1.2 lbs	158.00 $
ETSW160	20	12 - 24 VAC/VDC	1.2 lbs	158.00 $
ETSW250*	20	90 - 255 VAC	1.2 lbs	195.50 $
ETSW260*	20	12 - 24 VAC/VDC	1.2 lbs	195.50 $
DRA301	30	120 volts	15 lbs	1 130.00 $
DRA302	30	240 volts	15 lbs	1 130.00 $
DLC202	20	240 volts	16 lbs	1 430.00 $
DLC402	40	240 volts	17 lbs	1 586.00 $
DLC802	80	240 volts	25 lbs	2 344.00 $
DLC1252	125	240 volts	33 lbs	3 090.00 $

(*) Double stage controller.

(**) Controller for "Quick plug" heating elements.

Eheim submersible water heaters

Totally submersible heaters for aquariums. An ideal product for small water tanks. Dual calibration process ensures accuracy to +/- 1°F. Other features include automatic shut off and overheat protection. Suitable for both fresh and saltwater aquariums.

ITEM	DESCRIPTION	PRICE
6642	50 watts heater for aquarium from 7 to 16 gallons.	31.25 $
7813	75 watts heater for aquarium from 16 to 26 gallons.	31.25 $
6643	100 watts heater for aquarium from 26 to 40 gallons.	35.91 $
7814	125 watts heater for aquarium from 40 to 53 gallons.	35.39 $
6644	150 watts heater for aquarium from 53 to 79 gallons.	35.91 $
6645	200 watts heater for aquarium from 79 to 106 gallons.	41.14 $
6646	250 watts heater for aquarium from 106 to 159 gallons.	41.14 $
8580	300 watts heater for aquarium from 159 to 264 gallons.	41.14 $

Hydor submersible water heaters

These Hydor water heaters are completely submersible, UL approved, salt water compatible and shatterproof.

Instead of the typical metal element in a breakable glass tube, these heaters utilize a polymer sheet that uniformly heats a shatterproof glass tube.

The temperature is controlled and maintained by a highly precise micro-switch controller, adjustable from 70° to 89ºF. Heaters are 115V/ 60 Hz with a 6' cord.

One-year warranty.

ITEM	LENGTH	WATTS	PRICE
T-11702	8.9"	25	32.30 $
T-11102	7"	50	34.38 $
T-11202	8.9"	100	36.62 $
T-11602	12"	150	41.26 $
T-11302	12"	200	42.86 $
T-11402	15.5"	300	48.30 $
T-11502	15.5"	400	51.34 $

In-line water heaters

These in-line water heaters are easy to install and available in both 316 stainless steel and titanium. Stainless steel models are excellent for a variety of applications such as koi ponds and freshwater recirculating systems. Titanium models are ideal for saltwater systems and hydroponic systems that have nutrients in the water that would cause failure in stainless steel heaters. Designed for indoor use or outdoors (if protected from the sun and direct weather), they can be floor or wall mounted. Reading in °C and °F. CE approved.

TILO series

EHSS / TIL series

ALKC series

ITEM	VOLTS / PHASE	POWER	AMPS	DIMENSIONS (leng. x wid. x heig.)	WEIGHT	PRICE
316 STAINLESS STEEL MODEL						
EHSS-1.5-115T	115 / 1	1.5 kW	13.0	23" x 6" x 8.5"	12 lbs	1 039.98 $
EHSS-2.0-115T	115 / 1	2 kW	17.4	23" x 6" x 8.5"	12 lbs	1 039.98 $
EHSS-2.0-220T	220 / 1	2 kW	9.0	23" x 6" x 8.5"	12 lbs	1 039.98 $
EHSS-3.0-115T	220 / 1	3 kW	13.6	23" x 6" x 8.5"	12 lbs	P.O.R.
TITANIUM MODEL						
ALKC-0.5-115T	115 / 1	0.5 kW	4.3	17" x 6" x 8"	--	P.O.R.
ALKC-1.0-115T	115 / 1	1 kW	9.0	17" x 6" x 8"	--	P.O.R.
ALKC-1.5-115T	115 / 1	1.5 kW	13.0	17" x 6" x 8"	--	P.O.R.
TIL-1	115 / 1	1.5 kW	13.0	23" x 6" x 8.5"	12 lbs	1 239.98 $
TIL-2	115 / 1	2 kW	17.4	23" x 6" x 8.5"	12 lbs	1 239.98 $
TIL-3	220 / 1	2 kW	9.0	23" x 6" x 8.5"	12 lbs	1 239.98 $
TIL-4	220 / 1	3 kW	13.6	23" x 6" x 8.5"	12 lbs	1 399.98 $
TIL-5	220 / 1	4 kW	18.0	23" x 6" x 8.5"	12 lbs	1 487.98 $
TILO-6	220 / 1	6 kW	28.0	23.5" x 8" x 8.75"	13 lbs	2 176.00 $
TILO-7	220 / 3	6 kW	16.0	23.5" x 8" x 8.75"	14 lbs	2 784.00 $
TILO-8	220 / 1	8 kW	37.0	23.5" x 8" x 8.75"	13 lbs	2 232.00 $
TILO-9	220 / 3	8 kW	21.0	23.5" x 8" x 8.75"	14 lbs	2 840.00 $
TILO-12	220 / 1	12 kW	55.0	23.5" x 8" x 8.75"	13 lbs	2 528.00 $
TILO-13	220 / 3	12 kW	32.0	23.5" x 8" x 8.75"	13 lbs	3 200.00 $
TILO-15	220 / 3	15 kW	40.0	23.5" x 8" x 8.75"	13 lbs	3 256.00 $
TILO-18	220 / 3	18 kW	48.0	23.5" x 8" x 8.75"	13 lbs	3 312.00 $

Floating pond de-icer

Ideal for ponds with a capacity of 50 to 600 gallons, this floating de-icer prevents the formation of ice on the surface of your pond or water garden, in order to have a gaseous exchange between air and water. The de-icer opens and closes automatically during period of freezing. 14” of diameter, 18-feet long power cable.

ITEM	DESCRIPTION	PRICE
P-418	Floating pond de-icer, 120 watts.	75.00 $

Energy-efficient water heaters

Designed specifically for commercial properties (such as campings, condos, hotels, motels, schools, parks, and community pools), THERMEAU’s pool heaters meet the highest in energy-efficiency standards.

THERMEAU heat pumps make use of all the latest technological innovations, so you can slash your energy consumption, control your operating costs, and ensure that users stay comfortable in your pool.

Our pool heaters can also be installed in series for large expanses of water. Transportation and handling are affordable, and installation is easy — no cranes or flatbed trucks are required.

Heat exchanger manufactured in titanium / PVC.

ITEM	HP FAN	VOLTAGE	MAX. AMPS	BTU/H (@ 80°F air/water, 80% humidity)	DIMENSIONS (le. x wid. x he)	WEIGHT	PRICE
TH-140A	1/3	208-230 / 60 / 1	27.3	140,000	34” x 33” x 39”	265 lbs	4 388.00 $
TH-200	1/3	208-230 / 60 / 1	41.0	180,000	48” x 33” x 39”	445 lbs	6 663.00 $
TH-200-3	1/3	208-230 / 60 / 3	31.0	188,000	48” x 33” x 39”	375 lbs	6 663.00 $
TH-200-3A	1/2	600 / 60 / 3	12.1	193,000	48” x 33” x 39”	375 lbs	6 793.00 $

Electric water heaters

B model:
Robustly built, its PVC inner tank insures a long life expectancy. Its adjustable and controllable thermostat allows it to keep constant water temperature. Easy to install, minimum maintenance and no noise operation are the key features. This model requires to be installed indoors. Custom-made model also available on demand. All these models are available in the 240 volts / 1-phase (by default), 208 volts / 3-phase and 600 volts / 3-phase. Models with titanium elements. Maximum of 3200 ppm of salt.

B model

C model:
Electrical water heater with a tubular PVC tank for small inground or above ground pools. 5 kW, 10 kW or 15 kW rating at 240 volts. Quiet, odorless and easy to install. Available in mechanical and digital thermostat. Models with titanium elements. Maximum of 3200 ppm of salt.

C model (mechanical)

NOTE: not compatible with seawater applications.

**** Voltage for models in the tab = 240 volts / 1-phase. ****

ITEM	RATING	BTU/H	AMPS	THERMOSTAT	PRICE
B MODEL					
B1P2-6-TT	6 kW	20,427	25.0	Digital	2 548.00 $
B1P2-9-TT	9 kW	30,708	37.5	Digital	2 800.00 $
B1P2-12-TT	12 kW	40,944	50.0	Digital	3 290.00 $
B1P2-15-TT	15 kW	51,180	62.5	Digital	3 605.00 $
B1P2-18-TT	18 kW	61,416	75.0	Digital	3 675.00 $
B1P2-21-TT	21 kW	71,652	87.5	Digital	3 759.00 $
B1P2-24-TT	24 kW	81,888	100.0	Digital	3 934.00 $
B1P2-27-TT	27 kW	92,124	112.5	Digital	4 060.00 $
B1P2-30-TT	30 kW	102,360	125.0	Digital	4 333.00 $
B1P2-33-TT	33 kW	112,596	137.5	Digital	4 473.00 $
B1P2-36-TT	36 kW	122,832	150.0	Digital	4 522.00 $
B1P2-39-TT	39 kW	133,068	162.0	Digital	4 620.00 $
B1P2-42-TT	42 kW	143,304	175.0	Digital	4 872.00 $
B1P2-45-TT	45 kW	153,540	187.5	Digital	4 900.00 $
C MODEL					
VT-C05-TIT	5 kW	17,060	20.8	Mechanical	588.00 $
VT-C10-TIT	10 kW	34,120	41.7	Mechanical	812.00 $
VT-C15-TIT	15 kW	51,180	62.5	Mechanical	1 050.00 $
VT-C05-TIT-E	5 kW	17,060	20.8	Digital	833.00 $
VT-C10-TIT-E	10 kW	34,120	41.7	Digital	1 050.00 $
VT-C15-TIT-E	15 kW	51,180	62.5	Digital	1 274.00 $

C model (digital)