

Aqua Master

Energy efficient water heating , cooling for ,
Flats , Villa and industrial applications



Aqua Master chillers:



Every summer, most of us have to deal with hot water coming from our taps, overhead tanks insulation or shading does not yield satisfactory results as the water from the desalination plant is hot ,Aqua Master chillers will provide you with cold water.

Throughout the summer even with the ambient temperature of 50°C

Applications:

Villas, Building & Hotels:

Refreshing effect of a bath is lost due to the temp of water being higher than the body temperature. Young Babies can easily get burns from such hot tap water, Fruits, Vegetables & Meat cannot maintain their freshness when washed With Hot water.

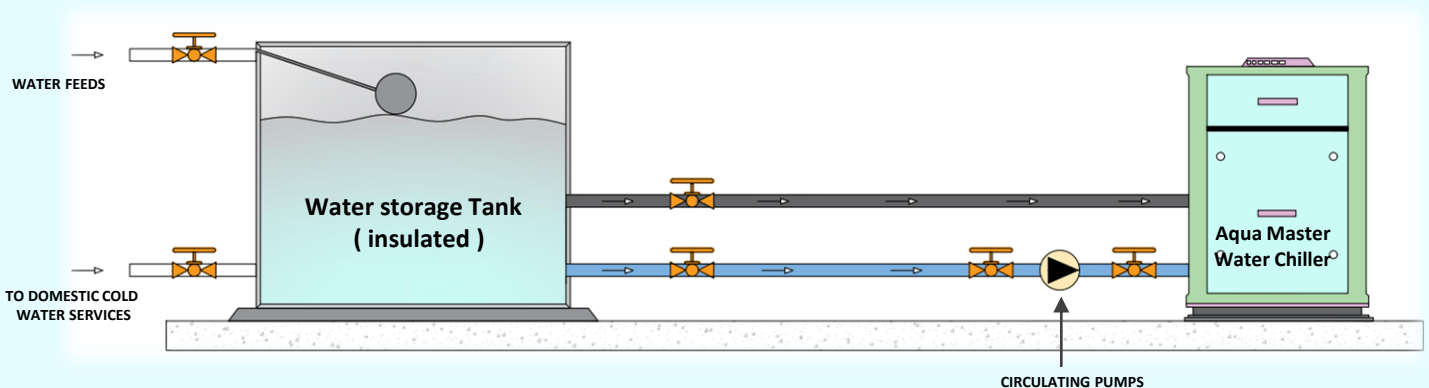
Laundry:

Delicate and expensive fabric damage occurs due to hot water in washing machines.

Selection chart for domestic water cooling*

Daily Usage / Tank Capacity U.S. Gallons	Capacity of Chiller in Tons					
	Water Temperature 40°C / Tank Temperature 28°C		Water Temperature 45°C / Tank Temperature 28°C		Water Temperature 50°C / Tank Temperature 28°C	
	Cooling Period		Cooling Period		Cooling Period	
	12 Hrs.	24 Hrs.	12 Hrs.	24 Hrs.	12 Hrs.	24 Hrs.
500	0.62	0.31	0.88	0.44	1.14	0.57
1000	1.24	0.62	1.77	0.88	2.29	1.14
1500	1.87	0.93	2.65	1.32	3.43	1.71
2000	2.49	1.24	3.54	1.77	4.58	2.29
2500	3.12	1.56	4.42	2.21	5.72	2.86
3000	3.74	1.87	5.31	2.65	6.87	3.43
4000	4.99	2.49	7.00	3.50	9.16	4.58
6000	7.49	3.74	10.62	5.31	13.74	6.87
8000	9.99	4.99	14.10	7.08	18.32	9.16
10000	12.49	6.24	17.70	8.85	22.90	11.45
13000	16.24	8.12	23.00	11.50	29.77	14.88
15000	18.74	9.37	26.55	13.27	34.36	17.18
20000	24.99	12.49	35.40	17.70	45.48	22.90
25000	31.23	15.61	44.25	22.12	57.26	28.63

installation to cool domestic water



Aqua Master chiller for the plastic industry ,

The process of creating plastics generates a lot of heat and uses a lot of energy. But the most compelling reason for installing a chilling system is the protection it provides to your valuable processing equipment.

Our chillers are quickly becoming the cooling equipment of choice for plastic processors. When working with equipment that is prone to heat failure and generate a lot of heat for the surrounding environment, you need a cooling system that is reliable, durable and can keep the equipment from overheating and efficiently remove heat from the surroundings. Not only will it extend the life span of the equipment, it will also allow you to work in the same room in total comfort.

Applications :

Our chillers are often used in the injection, extrusion and blow molding industries. I.e. hydraulics of the molding machine, gear box and barrel of the extruder. In addition to cooling the hot plastic used to create plastic products, a chilling system can also cool down the equipment itself.

TECHNICAL SPECIFICATION

TECHNICAL DATA & SELECTION CHART							
Model		HTC018	HTC024	HTC036	HTC050	HTC060	HTC090
Heating Capacity	kW	8.8	13	17.5	21	25	35
	BTU/h	30000	45000	60000	72000	85000	120000
Cooling Capacity	kW	5.8	8.5	11.5	14.5	17.5	25
	BTU/h	20000	29000	40000	49500	59000	86000
Power Input	kW	1.9/2.1	2.9/3.1	3.8/4.1	4.6/5.2	5.4/6.3	7.6/8.4
Running Current	A	8.6/9.6	13.2/14.1	17.3/18.7	8.2/9.2	9.6/11.2	13.6/15.0
Power supply	V/PH/Hz	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50
Compressor Number		1	1	1	1	1	2
Compressor		Rotary	Rotary	Rotary	Rotary	Rotary	Rotary
Heat Exchanger	Titanium	Titanium	Titanium	Titanium	Titanium	Titanium	Titanium
Fan Number		1	1	1	1	1	2
Fan direction		Horizontal	Horizontal	Horizontal	Vertical	Vertical	Vertical
Noise	dB(A)	51	54	54	56	56	61
Water Connection	mm	50	50	50	50	50	63
Water flow volume	m ³ /h	3	4.5	6	5	6	8
Water pressure Drop	kPa	10	10	10	12	12	15
Unit Dimensions	cm	100x42x65	70x74x83	70x74x83	70x74x84	99x74x113	149x74x113
Net weight	kg	66	73	95	125	126	250
Suitable for tank cooling for 12 hour operation	Volume m ³	3	4.5	7.5	8	10	15
	Surface Area m ²	8	13	20	23	28	42

OTHER INDUSTRIAL APPLICATION

- X-ray diffraction
- Power generator stations
- Pharmaceutical formulation
- Compressed air
- Laboratory equipment
- Gas cooling
- Water jet cutting
- Die casting
- Welding equipment
- Food and beverage processing
- Machine tooling
- Chemical processing
- Vacuum system
- Analytical equipment
- Semi-conductors

Model		HTC120	HTC150	HTC180	HTC240	HTC400	HTC500
Heating Capacity	kW	45	55	85	105	160	210
	BTU/h	150000	188000	290000	358000	550000	720000
Cooling Capacity	kW	30	38	60	75	120	150
	BTU/h	103000	130000	205000	256000	410000	510000
Power Input	kW	9.5/10.4	11.8/13.5	18.4/20.8	21.6/26	34.2/41.6	46.3/56.2
Running Current	A	16.9/18.5	21/24.1	32.8/37	38.6/46.3	61/74.2	81.8/99.1
Power supply	V/PH/Hz	380-400/3/50	380-400/3/50	380-400/3/50	380-400/3/50	380-400/3/50	380-400/3/50
Compressor Number		2	2	3	4	3	4
Compressor		Scroll	Scroll	Scroll	Scroll	Scroll	Scroll
Heat Exchanger	Titanium	Titanium	Titanium	Titanium	Titanium	Titanium	Titanium
Fan Number		2	2	3	3	3	4
Fan direction		Vertical	Vertical	Vertical	Vertical	Vertical	Vertical
Noise	dB(A)	61	62	63	64	64	65
Water Connection	mm	63	63	63	110	110	110
Water flow volume	m ³ /h	10	13	20	25	35	50
Water pressure Drop	kPa	15	20	20	24	24	26
Unit Dimensions	cm	150x78x125	150x78x125	205x90x182	225x125x223	250x125x222	285x125x222
Net weight	kg	265	290	535	820	1040	1100
Suitable for tank cooling for 12 hour operation	Volume m ³	21	25	35	45	75	110
	Surface Area m ²	56	73	95	125	200	300

Standard features:-

- Programmable digital temperature controller/indicator
- SS 316 L Heat exchanger with copper tubes
- Weather proof body
- Copeland scroll compressors
- Single & Dual cycle designs
- High pressure and low pressure cut off

OPTIONAL :

- Cupro - nickel or Titanium Heat Exchangers
- Herasite coating for the condensers
- Monitoring & Controlling by Internet
- Portable system for plastic industries with built in storage tanks.
- Heating option for winters to raise the temperature to 45°C

Our other product Range

- Heat pump system for swimming pool water heating & cooling
- Solar water Heater
- Solar Air Conditioning System
- Garbage Chute System for multistory building

Our Product Photos



Recipient of Green Middle East
Award 2012 for
Alternative Energy Project



Recipient of Green Climate Control Award 2015
for Project of the Year Standalone DX, Including VRF

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