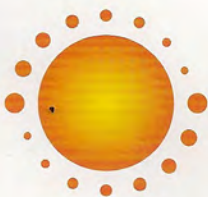
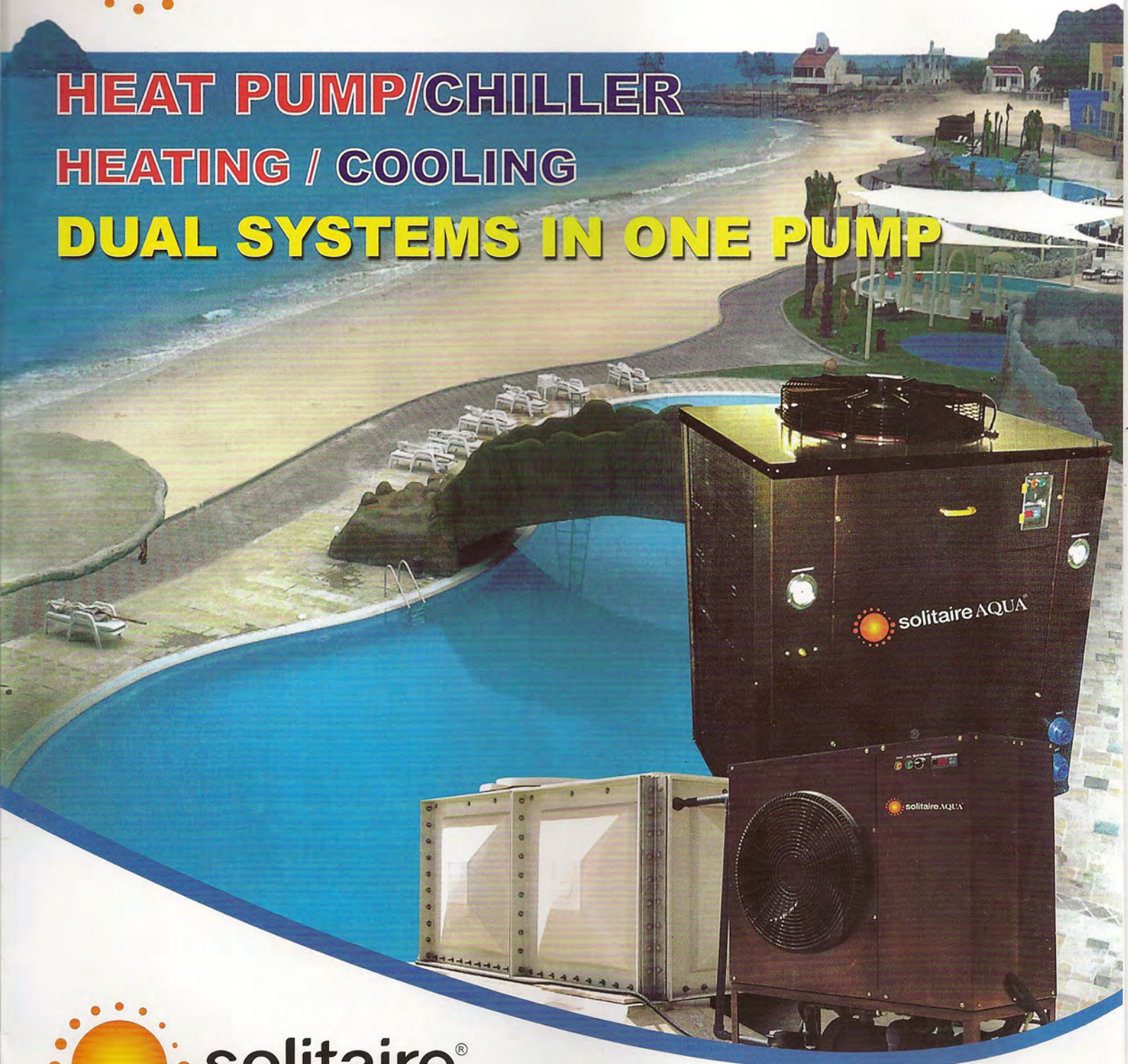


solitaire AQUA[®]

HEAT PUMP/CHILLER

HEATING / COOLING

DUAL SYSTEMS IN ONE PUMP



solitaire[®]

Solitaire Solar International

Dubai ■ Abu Dhabi ■ Ajman

P.O. Box : 19165, Dubai - United Arab Emirates

Tel : +971 4 258 3396, Fax : +971 4 258 3397

Hot Line : +971 50 644 8450 / +971 50 653 7671



Australian
Standard

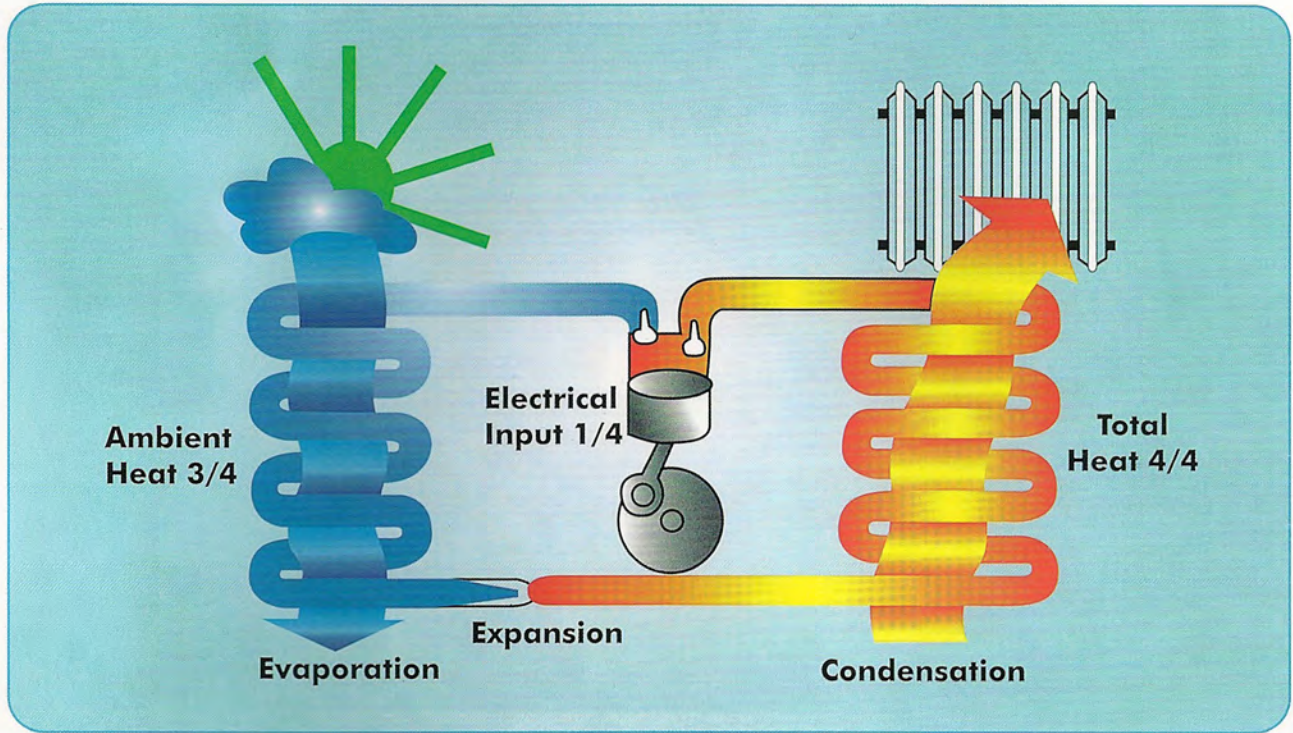
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Standards Australia

P.O. Box : 40248, Ajman - United Arab Emirates
Tel (Off) : +971 6 747 8151, Fax : +971 6 747 8152

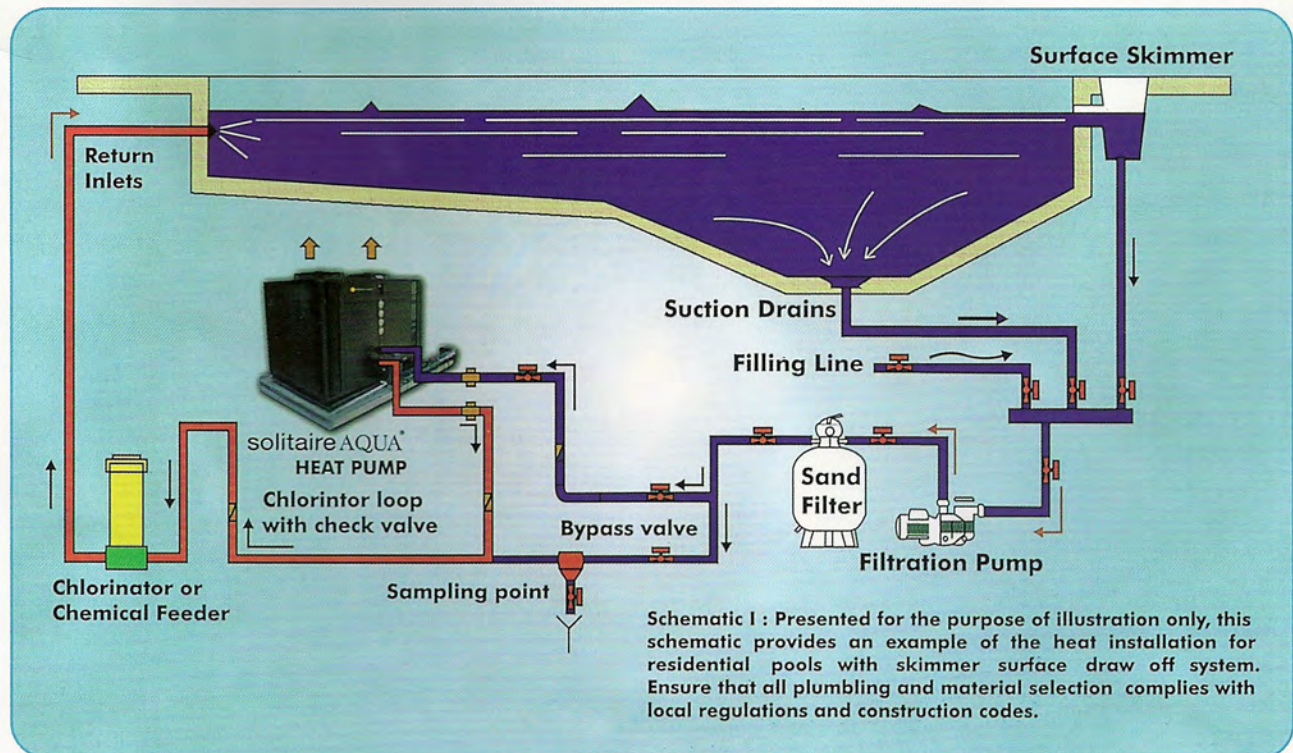
[www. solitairesolar.ae](http://www.solitairesolar.ae)



Heat Pump Schematic



Pool Filtration Schematics with Heat Pump





solitaire AQUA® chillers are perfect solution for each and every industrial cooling applications. It is highly efficient with maximum energy saving and very low maintenance cost. Chilled water is very much necessary for many industrial applications as it improves productivity and smoothens the industrial process thus ensuring long life for machinery, less production time and drastic reduction in cost.

solitaire AQUA® chillers always supply chilled water at the exact water temperature requested by the machine manufacturer, even at any ambient temperatures (specifically for G.C.C) and different load requests. The standard models can be upgraded by a wide range of options and accessories available on request.

solitaire AQUA® chillers maximize productivity and minimize cost. The machines function fully in conformity with water regulations and quality.

Our chillers are suitable for following manufacturing Applications.

- ⚙ Water jet Cutting Systems
- ⚙ Plastics - Injection Moulding / Blow Moulding Extrusion, Film Extrusion, Thermo Foaming, PVC Pipes
- ⚙ Ready Mix, Concrete Mixing Plants
- ⚙ Paper Manufacturing, Printing, Card Board Labels, Plastic Film
- ⚙ Low Temperature Applications, Cold Storages
- ⚙ Laser - Welding Profiling, Cutting, Optics, Medical Aesthetics
- ⚙ Air Conditioning
- ⚙ Mechanical Heavy Duty Industrial Lathes, Heavy Duty Air Compressor, Polishing, Machine Cooling
- ⚙ Food - Food Processing, Kitchen, Drinks
- ⚙ Lubricants - Oil Cooling And Dewaxing Of Oils.
- ⚙ Industrial Laundry

Centralized Cooling Systems For Roof Top Water Tanks



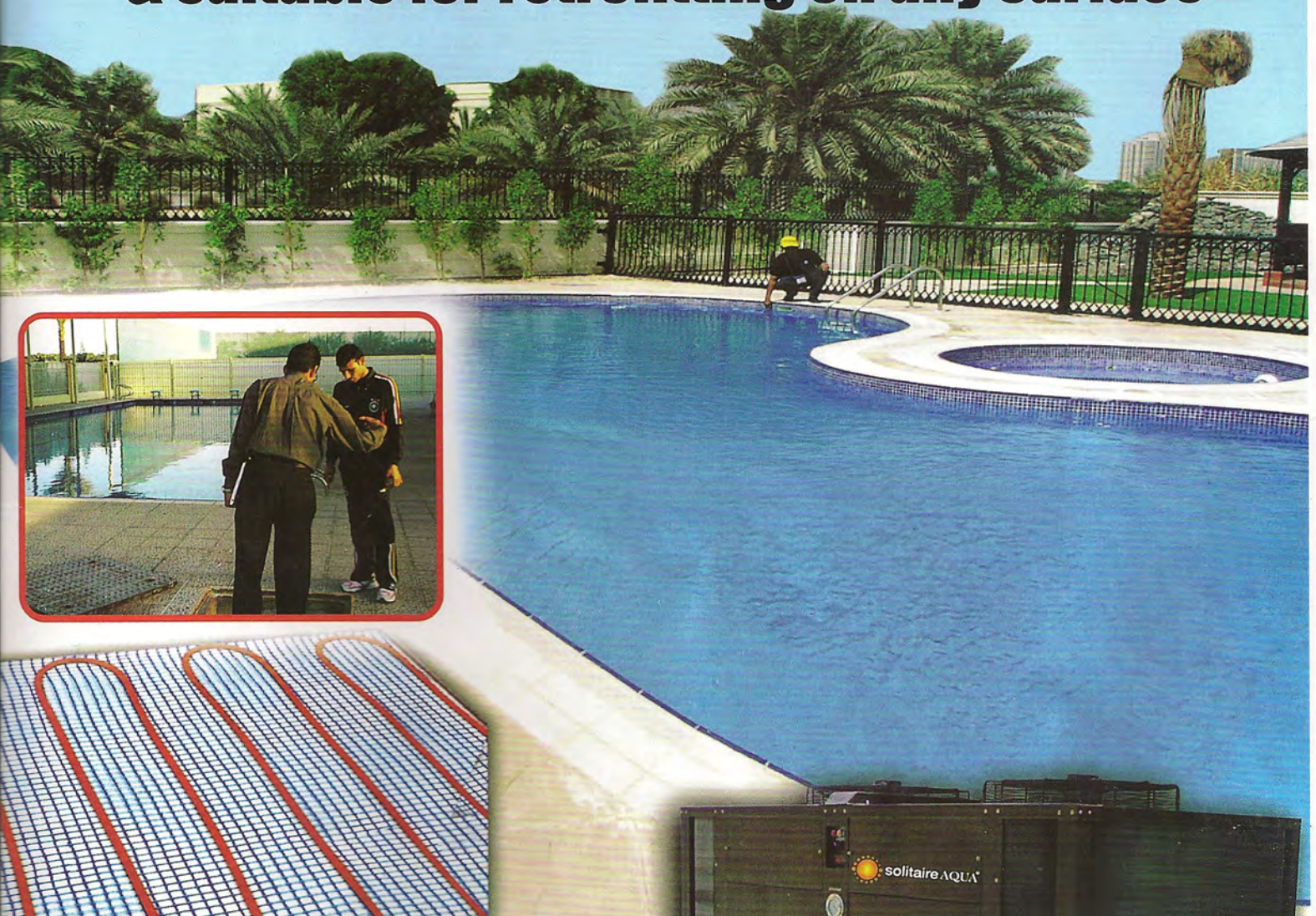
PF PEROBE®

WATERTHERM



MADE IN GERMANY

The super-flat underfloor **cooling** pipe system for **Swimming Pool Decks** & suitable for retrofitting on any surface



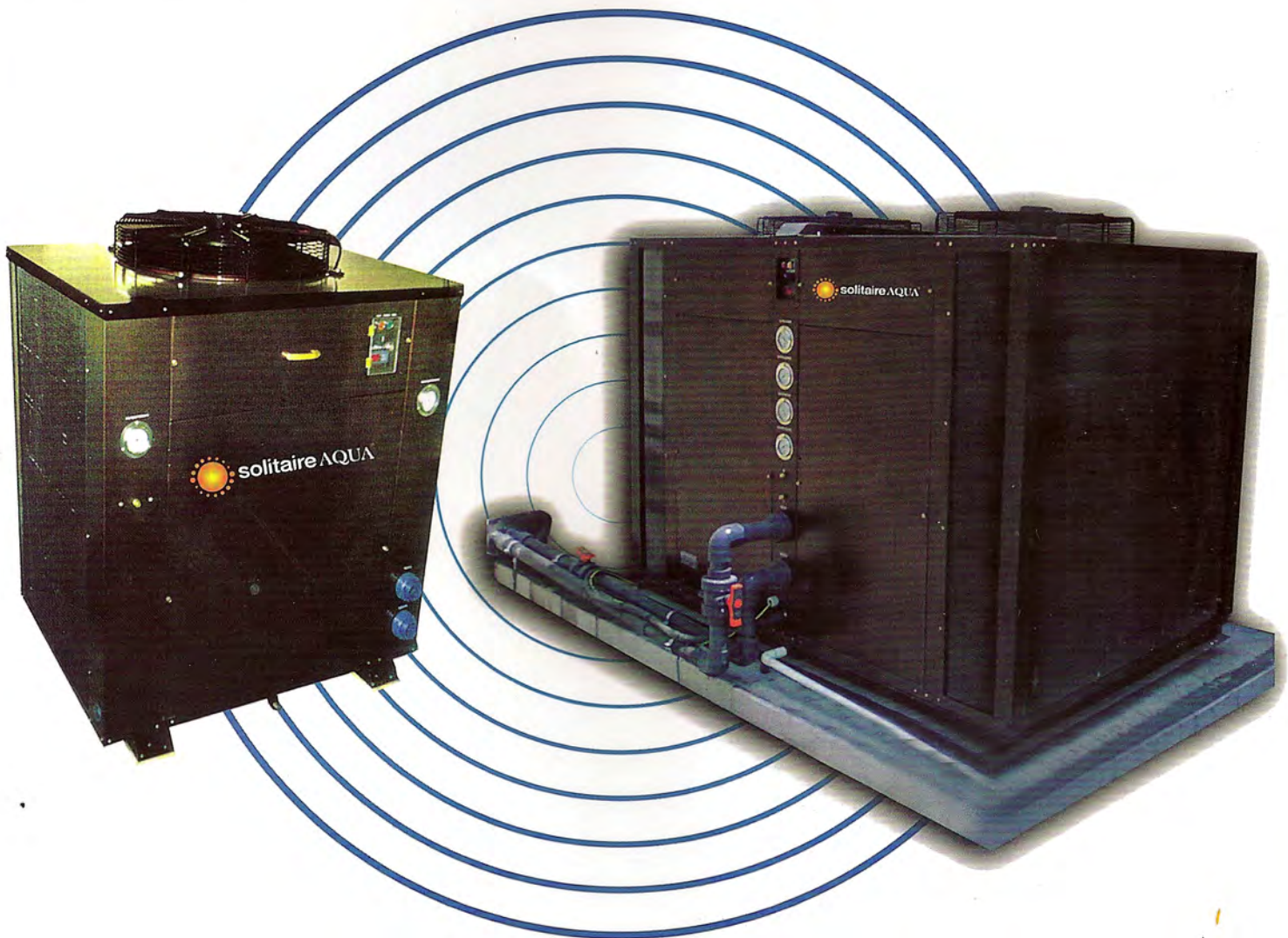
Walk without Burning Feet





Heat pump technology is based on refrigeration cycle, Heat pump absorbs heat from the atmosphere and delivers to pools in winter. In summer it absorbs from pool water and transfers it to atmosphere. Heat pump technology developed (updates) and expanded in the market because of "VERY LOW" ELECTRICAL CONSUMPTION as compared to an electrical pool heater. The main attraction of solitaire AQUA® heat pumps is its design with HIGH COP with almost 80% electrical saving and 4-5 times energy output. solitaire AQUA® heat pumps are designed specially for G.C.C. conditions based on temperatures of 52°C in summer and 6°C winter. Electrical heaters, gas or oil has running costs and will be useful only during winter (maximum 4 months).

In Gulf summer is long and ambient temperatures are very high for comfort swimming as per standard the water temperature should be 28 - 29°C in summer and 30 - 32°C in winter. Only heat pumps can give heating and cooling simultaneously for the pool as per the standard temperature. solitaire AQUA® heat pumps are highly efficient and one of the BEST RATED LEADING HEAT PUMPS available in the market with an excellent back-up team comprising of qualified engineers & technically experienced staff.





Model No.	Ton	BTU/H	KW Heating (Output) Actual	Unit Size (cm) (L x w x h)	PH Volt	AMPS	Running KW
SA 15	1.5	18000	7.2	90 x 45 x 105	1 220-240	10.00	1.7
SA 20	2.0	24000	10.5	90 x 45 x 115	1 220-240	12.00	2.1
SA 35	3.5	42000	17.5	100 x 65 x 85	3 380-420	6.00	3.4
SA 50	5.0	60000	25.5	110 x 75 x 96	3 380-420	8.80	5.1
SA 75	7.5	90000	38.8	120 x 95 x 115	3 380-420	13.40	7.5
SA 100	10.0	120000	45.5	120 x 100 x 115	3 380-420	15.70	9.1
SA 125	12.5	150000	55.0	120 x 100 x 125	3 380-420	19.00	11.1
SA 150	15.0	180000	69.9	210 x 140 x 125	3 380-420	24.80	14.0
SA 200	20.0	240000	90.9	210 x 140 x 140	3 380-420	31.30	18.13
SA 250	25.0	300000	115	205 x 145 x 145	3 380-420	40.80	23.20
SA 300	30.0	360000	138	210 x 145 x 145	3 380-420	51.50	29.80

Water flow rate required for the unit minimum 2 and maximum 3.75 gpm / Ton.

Above unit are readily available.

Unit design can be customized / modified according to client requirement if necessary.



The Ultimate Heating / Cooling Technology For Swimming Pools & Water Tanks