

POOL HEATING

Extend swimming
pool's season with
an energy efficient
heat pump



SWIMMING POOL HEAT PUMP CATALOGUE

ALTO

ALTO COMPANY & HEAT PUMP

Professional Swimming Pool Heat Pump Factory You can Count on

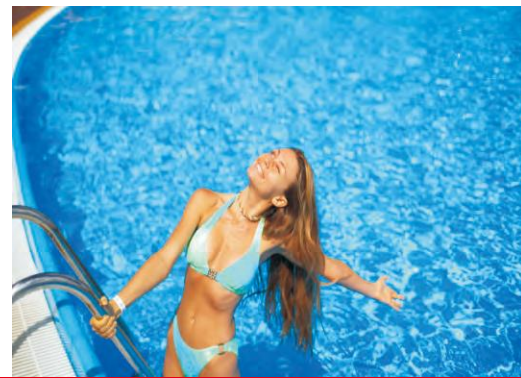
Alto is a leading professional refrigeration factory committed to design and manufacture a full range of heat pumps for residential and commercial swimming pools. Alto is located in South China, Foshan, Guangdong, which owns an experienced technical engineer team, skilled workers, professional labs and all other production facilities for development and production.

Alto heat pump covers heating capacity from 6kw/hour to 450kw/hour, including 6 series and 52 models, which can supply more than enough heating capacity for both residential and commercial swimming pools. It supplies the most economic operations to lower owner's cost with the super high COP performance.

In the past 15 years, Alto heat pumps have been popularly used in many residential and commercial pool projects of villas, hotels, natatoriums, aquatic facilities, schools, universities, recreational and fitness centers, retirement centers, health clubs, water parks, athletic centers and pet centers nationally and abroad.

Alto supplies design, engineering, consulting, manufacturing, installation, instruction and maintenance support to contractors and users. Besides the standard heat pump products, Alto also supplies OEM, ODM and customized product service according to customers' requirement, especially for retrofitting and replacing projects of old swimming pools.

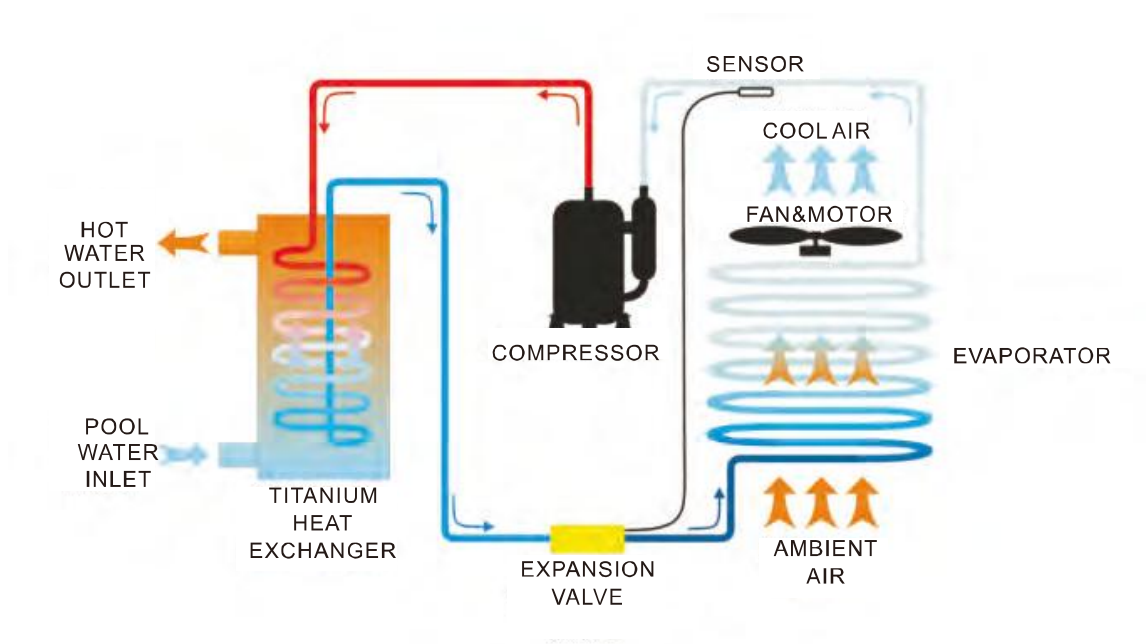
Alto is ready to offer an end-to-end solution to the swimming pool owners, architects, engineers and contractors with the most reliable technologically advanced and energy efficient heat pump products. We look forward to working for your swimming pool projects.



ALTO HEAT PUMP THEORY

Alto pool heat pump helps to heat and cool the swimming pool water, engaging you comfortable pool time all the year round. Taking advantages of heat pump technology. Alto heat pump transfers free energy from air by the environment-friendly refrigeration to heat/cool pool water, which supplies you the most energy-saving and cost effective water heating/cooling solution.

Alto heat pump is an electrically driven heat exchanging device. It consists of evaporator, compressor, condenser and expansion value. It utilizes a vapor-compression refrigeration cycle in these four parts to transfer heat from air to pool water. In this process, our heat pump only consumes 1kw electricity while delivers 5kw heat to water, saving more than 70% energy consumption than traditional heater all the year round.

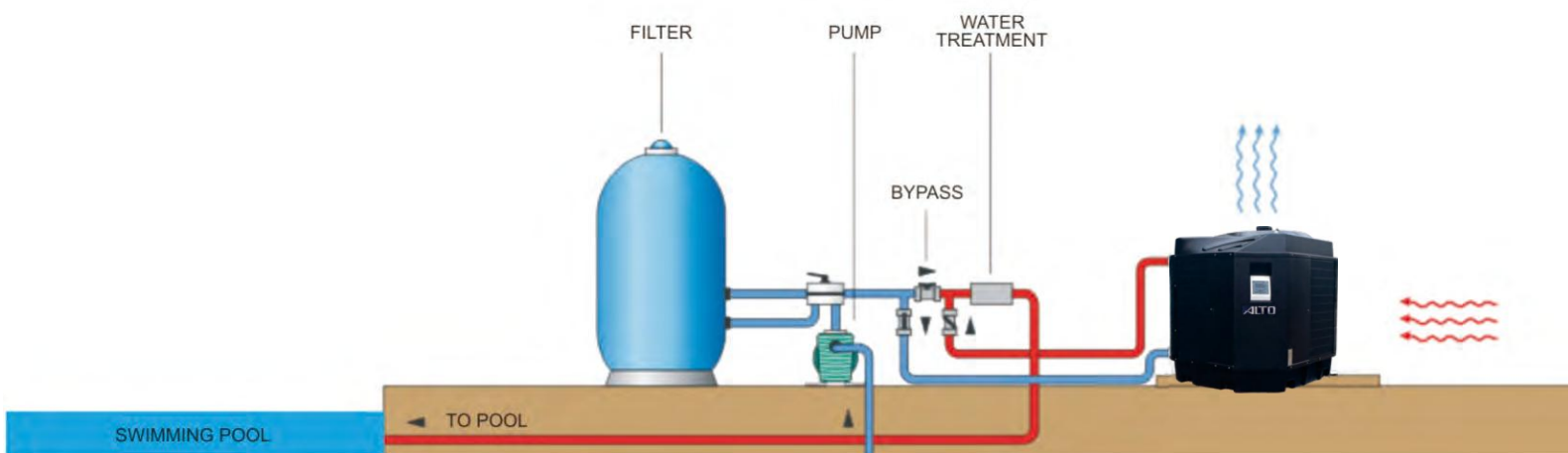


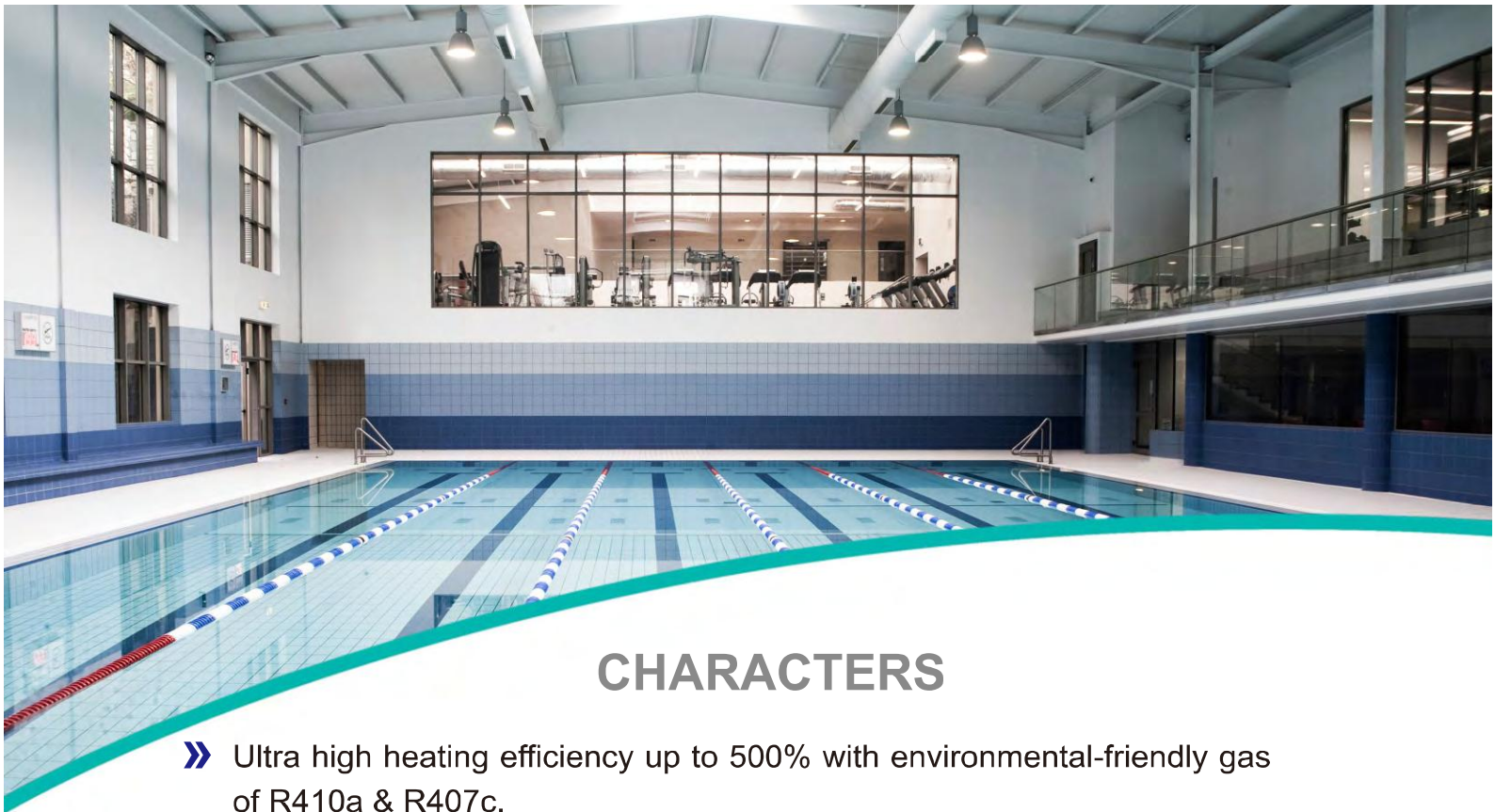


HEAT PUMP INSTALLATION GUIDE

Quick and easy installation

Simply connect the pool return line to and from the heat pump and connect the power source.

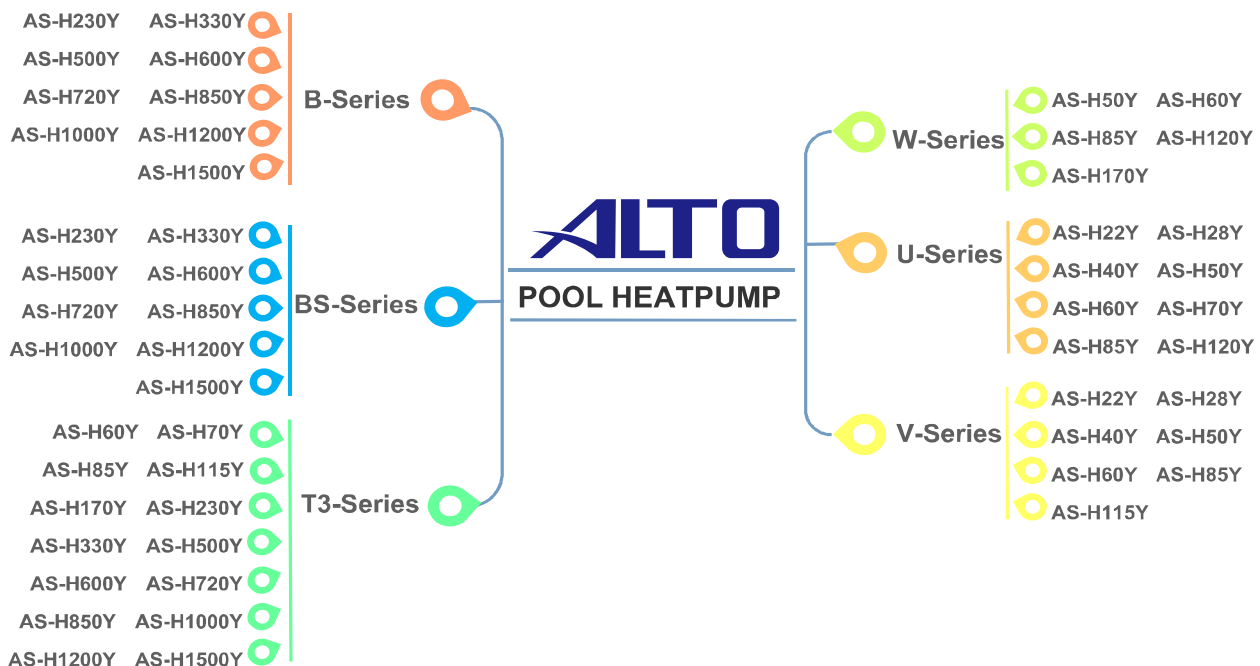




CHARACTERS

- » Ultra high heating efficiency up to 500% with environmental-friendly gas of R410a & R407c.
- » Superior quality and durable operation due to the internationally famous compressor & titanium heat exchanger.
- » Water-proof intelligent controller realizes precise operation automatically.
- » Auto defrosting & auto restart, operate well in all kinds of climates.
- » Six series heat pumps with 6kw/h to 450kw/h heating capacity meet various requirements.

ALTO POOL HEAT PUMP FAMILY





U-series | **Horizontal ventilation**
ABS plastic cabinet
Capacity 6.5~35 kw/h



» Features

- Titanium heat exchanger in PVC shell
- Bluetec coated hydrophilic evaporator
- Intelligent digital indicator controller
- Precise pool water temperature control
- Automatic defrosting function included
- General test carried out for every unit

» Quality Components



Panasonic/Hitachi/Copeland



Titanium Heat Exchanger



Blue Hydrophilic Evaporator



Danfoss Expansion Valve



Emerson Expansion Valve



Waterproof Controller



Sanhua Four-way Valve

» Optional Parts



Soft-start



Crank heater



Titanium
electric heater



Anti-icing belt



Protection cover

» Specification

Model		AS-H22Y	AS-H28Y	AS-H40Y	AS-H50Y	AS-H60Y	AS-H70Y	AS-H85Y	AS-H120Y
Heating capacity	kw/h	6.5	8.2	11.9	15.5	17.5	20.6	25.1	35.1
Power input	kw/h	1.4	1.7	2.5	3.2	3.7	4.3	5.2	7.4
COP	—	4.6	4.8	4.8	4.8	4.7	4.8	4.8	4.7
Power supply	v/ph/hz	230/1/50				380/3/50			
Rated current	amp	6.3	8.1	11.5	14.7	7.5	8.6	10	14.2
Circuit breaker	amp	16	16	30	30	16	30	30	30
Heat exchanger	type	Titanium tube in PVC shell							
Water flow	m³/h	1.5~3	2~3	3~5	3~6	4~8	5~8	5~10	8~15
Water connection	mm	50	50	50	50	50	50	50	50
Weight	kgs	48	52	58	96	98	100	110	124
Dimension	mm(length)	870	870	870	1116	1116	1116	1116	1116
	mm(width)	362	362	362	485	485	485	485	485
	mm(height)	625	625	625	835	835	835	1590	1590

* Test standard: inlet water temperature of 27°C, ambient temperature of 20°C/15°C(DB/WB).

** All specification subject to change without notice.