

AQUA STAR

SWIMMING POOL HEAT PUMP

Enjoy the comfort of a warm pool year round. The **AQUASTAR** Heat Pump utilizes the heat and humidity in the air to heat your pool in a highly efficient manner. This free solar energy is converted to usable heat for your pool water as it is drawn into the heat pump over the evaporator (heat collector). It is then intensified as it passes through a compressor and is transferred to the pool water by the condenser (heat exchanger).

This entire process is efficient and economical. Only a small amount of electricity (see technical specifications) is required. For every unit of electricity used, five or six units of heat are produced. Because of this, the **AQUASTAR** Heat Pump has an operating cost which is substantially less than other methods of pool heating such as gas, oil, or electric resistance.

AQUASTAR BENEFITS

- High coefficient of performance (operating efficiency)
- Safe and environmentally clean
- Simple operation
- Inexpensive to operate
- Quiet running
- Sturdy construction



AQUASTAR FEATURES

- Corrosion resistant metal cabinet
- Cupro-nickel interior/copper exterior condenser (heat exchanger)
- Water flow detection switch
- Compressor anti-cycle delay timer
- Solid-State electronic temperature control
- Automatic internal water bypass**
- Backflow prevention check valve

** Model MV-30 does not have an internal bypass because of space restrictions within the unit. Consequently, the Model MV-30 requires an external bypass and low-flow flowmeter in order to meet the water flow requirements.

AVAILABLE OPTIONS

- Dual thermostat available for pool/spa combination
- Automatic remote control and motorized valves for pool/spa combination

Warranty

Full Five Year Warranty

| TECHNICAL SPECIFICATIONS | Model MV-30 | Model MV-70 | Model MV-100 |
|--|-------------------------------|---------------|--------------|
| BTU OUTPUT/HR. AT 80° F water/80% RH/80° F air | 30,000 | 70,000 | 100,000 |
| COEFFICIENT OF PERFORMANCE (COP) | 5.46 | 5.10 | 6.10 |
| KW Input | 1.6 | 4.4 | 4.8 |
| COMPRESSOR TYPE | Reciprocating | Reciprocating | Scroll |
| ELECTRICAL | 220 Volts, 60HZ, Single Phase | | |
| MINIMUM AMPACITY (AMPS) | 11 | 25.4 | 37.3 |
| MAXIMUM BREAKER SIZE (AMPS) | 20 | 45 | 60 |
| AIR FLOW (CFM) | 3,000 | 4,000 | 4,000 |
| WATER FLOW (GPM) | 4-5 | 15-60 | 15-60 |
| WEIGHT (lbs) | 135 | 220 | 245 |
| LENGTH (ins) | 35 | 37 | 37 |
| WIDTH (ins) | 23 | 27 | 27 |
| DEPTH (ins) | 17 | 25 | 27 |

NOTE: The use of a solar pool blanket can reduce heating costs by as much as 50%. When practical, it is recommended that one be used.

AquaStar distributed by:

Authorized CALOREX Dealer:



Quality and Service since 1986

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