

Energy efficient heating for swimming pools

Harness the heat you *don't* have to pay for with our range of economic heat pumps



Specialist designers and manufacturers of pool comfort control systems

Swimming pool heat pumps

Heating your swimming pool with a Calorex heat pump could not be more straightforward and economic.

At a cost that won't spoil the enjoyment you, not the weather, will be in control, ensuring your pool will always be at just the right temperature even when the sun isn't shining.

the best and most economic

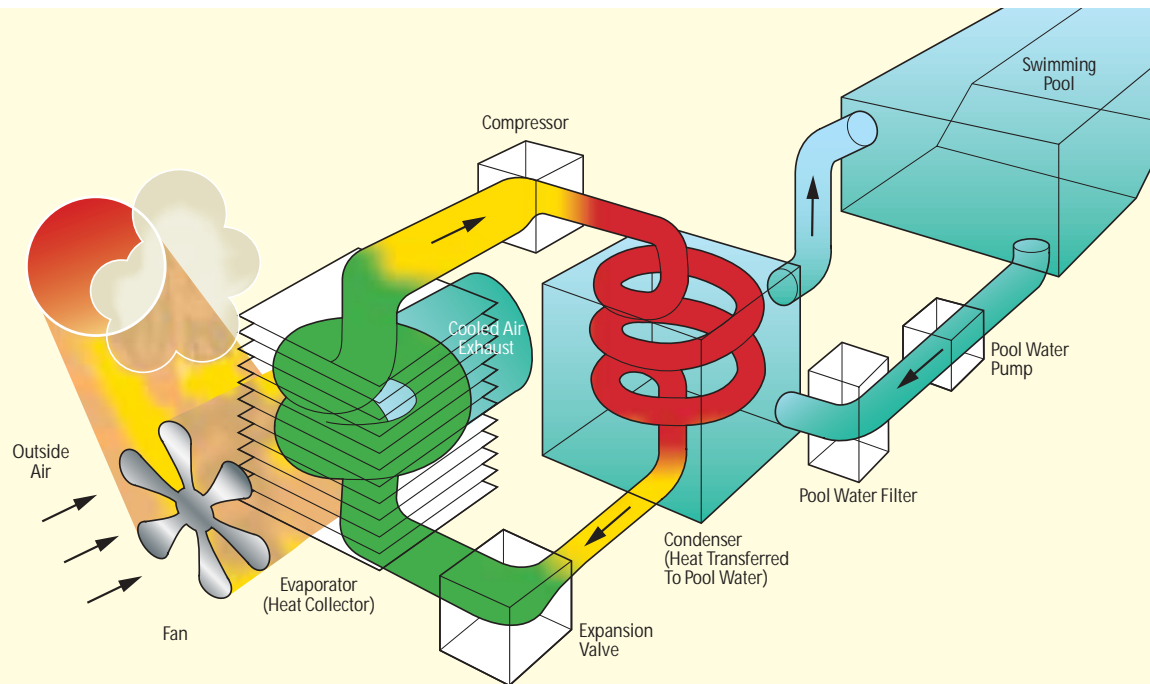
- Heat pumps can provide up to five units of energy to the pool for every one unit paid for.
- Heat pumps require no complicated gas supply, oil tanks or flues.
- Heat pumps will operate from small capacity electrical supplies.
- Heat pumps are easy to install, quiet in operation and as a result of their design, inherently reliable.
- Heat pumps are fully automatic - all you have to do is set the thermostat to your required pool temperature.



How do they work?

Heat pumps are by no means a strange invention. Similar in operation to a refrigerator, they absorb energy in the form of heat and moisture from outside air, upgrading this energy to a usable form of heat through the unique ability of their refrigeration circuit. By careful design Calorex Heat Pumps are capable of providing your pool with up to five units of absorbed heat for every one unit paid for. Even on a cloudy cold day when the temperature may only be 10°C, they will give three units for every one consumed.

Our product is our reputation. And both are the best.



way to heat your pool

The diagram above illustrates the way in which a heat pump absorbs, upgrades and transfers heat from outside air to swimming pool water.

innovation, range and quality of product.

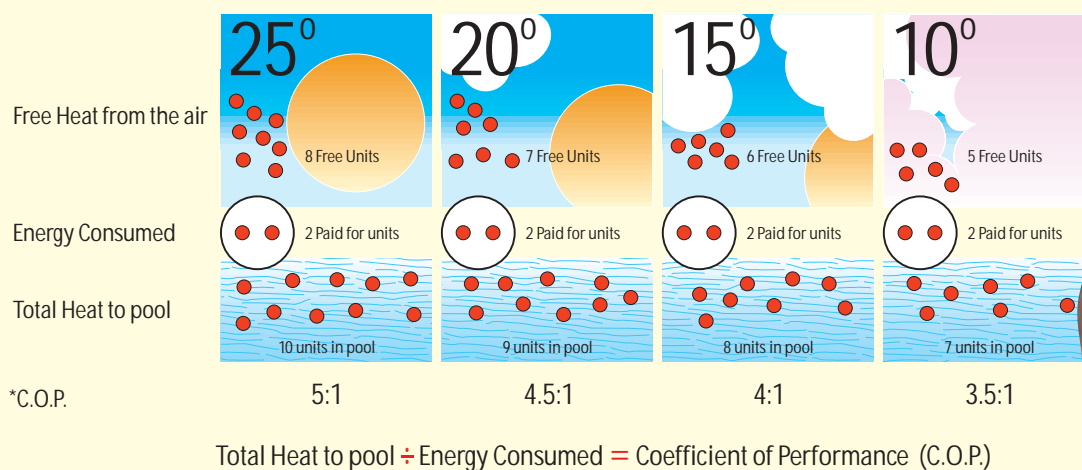
A proud claim, backed by over twenty years of design, manufacture and operational experience with thousands of units operating in hundreds of countries worldwide.

All Calorex heat pumps contain a fully sealed non-CFC refrigeration circuit which is specifically designed to operate as a swimming pool heat pump. This means that all components used in their construction are designed to give maximum efficiency at typical swimming pool temperatures. Furthermore, the choice of material and construction will give years of trouble free service.



Why a Calorex Heat Pump?

Calorex is the world's leading manufacturer of swimming pool heat pumps and is renowned for it's



Air to water heat pumps for swimming pool water heating during ambient temperatures above 7°C
3020, 7020 have operating option to -15°C

S P E C I F I C A T I O N

| MODEL SINGLE PHASE | | AW320AM | AW620AM | AW820AM | AW1220AM | | | |
|--------------------------------|--------------------|-----------------------------|----------------|----------------|-----------------|-----------------|-----------------|-----------------|
| MODEL THREE PHASE | | | AW620BM | AW820BM | AW1220BM | AW1520BM | AW3020BM | AW7020BM |
| DUTY - Ambient Air 10°C | | | | | | | | |
| Output to Water | kW | 3.7 | 7.3 | 9.5 | 12.6 | 17.0 | 31 | 53 |
| Electrical Input | kW | 0.8 | 2.0 | 2.4 | 3.4 | 4.6 | 8.6 | 12.0 |
| DUTY - Ambient Air 20°C | | | | | | | | |
| Output to Water | kW | 4.8 | 9.3 | 12.15 | 16.1 | 22 | 41 | 66 |
| Electrical Input | kW | 0.9 | 2.1 | 2.5 | 3.6 | 5.1 | 9.1 | 13.4 |
| ELECTRICAL DATA | | | | | | | | |
| Electrical Supply Spec 1 Phase | v/ph/Hz | 230v ~ 1N-50Hz | | | | - | - | - |
| Electrical Supply Spec 3 Phase | v/ph/Hz | n/a | 400v ~ 3N-50Hz | | | | | |
| Supply Fuse 1 Phase | amps | 10 | 25 | 30 | 35 | - | - | - |
| Supply Fuse 3 Phase | amps | n/a | 15 | 15 | 20 | 30 | 35 | 50 |
| Starting Amps - Std 1 Phase | amps | 32 | 60 | 72 | 90 | | | |
| Starting Amps - Std 3 Phase | amps | n/a | 30 | 30 | 39 | 52 | 127 | 198 |
| AIR DATA | | | | | | | | |
| Nominal Air Flow | m ³ /hr | 835 | 1500 | 2500 | 3000 | 4000 | 9000 | 13000 |
| Fan External Resistance | mm WG | n/a | 4 | 4 | 4 | 4 | 4 | 4 |
| Fan/Drive Centrifugal | | Direct | | | | Belt | | |
| WATER DATA | | | | | | | | |
| Pool Water Flow | l/min | 16 | 33 | 33 | 33 | 33 | 83 | 110 |
| Pressure Drop Pool Water | m hd | 4.9 | 2.1 | 3.2 | 3.9 | 4.3 | 2.5 | 4.5 |
| Pool Water Connections | inches | 3/4" BSPM Stub | | | | 1 1/2" BSPM | | |
| Condensate Water Connection | mm | 22mm | | | | 1 1/2" BSPM | | |
| GENERAL DATA | | | | | | | | |
| Refrigerant type | | R407C | | | | | | |
| Noise Level @ 3m | dB A | 53 | 55 | 57 | 59 | 61 | 69 | 73 |
| Compressor | | Hermetic Suction Gas Cooled | | | | | | |
| DIMENSION DATA | | | | | | | | |
| Width (unpacked) | mm | 817 | 820 | 1080 | 1080 | 1210 | 1700 | 1950 |
| Depth (unpacked) | mm | 605 | 705 | 705 | 705 | 755 | 1090 | 1340 |
| Height (unpacked) | mm | 640 | 760 | 802 | 802 | 807 | 1212 | 1212 |
| Weight (unpacked) | kg | 66 | 92 | 119 | 130 | 145 | 330 | 480 |

NOTES:

1. Allow 500mm clearance to front panels.
2. Performance Design Limitations: Ambient = 7°C min, 38°C max. Water = 10°C min, 38°C max.
3. Pool water to have correct balance pH 7.4 ± 0.4. Free Chlorine 1 - 30 ppm.
Sea water acceptable.
4. AW320 has built in water flow meter

OPTIONS:

1. Reverse cycle defrost (3020,7020).
2. Soft start.
3. Top or rear air discharge (3020,7020).



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