

Energy efficient heating for swimming pools

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



calorex®

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.

Calorex the best and most economic

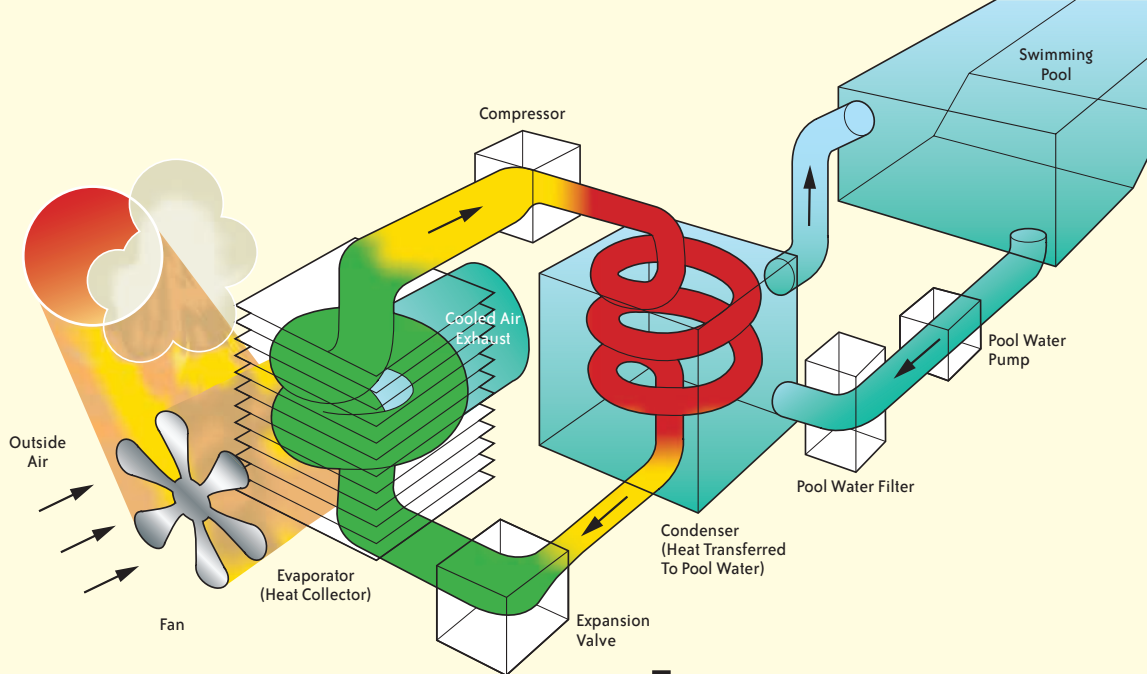
- Heat pumps can provide up to five units of energy to the pool for every one unit paid for.
- Heat pumps require no complicated gas supply, oil tanks or flues.
- Heat pumps will operate from small capacity electrical supplies.
- Heat pumps are easy to install, quiet in operation and as a result of their 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.



economic 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.

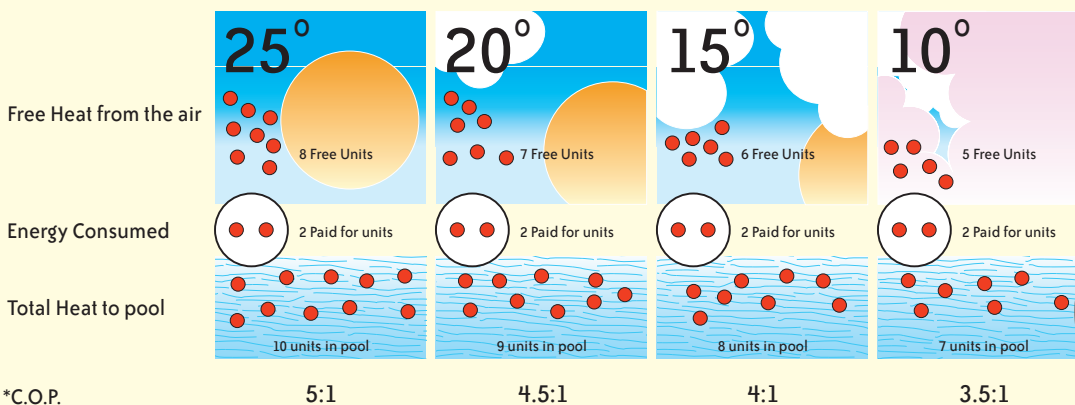
All Calorex heat pumps contain a fully sealed non-CFC refrigeration circuit which is specifically designed to operate as a swimming pool heat pump. This means that all components used in their construction are designed to give maximum efficiency at typical swimming pool temperatures. Furthermore, the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

innovation, range and quality of product.

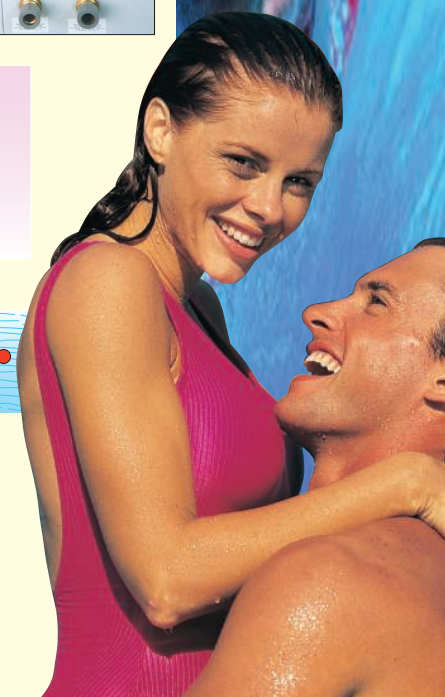
A proud claim, backed by over twenty years of design, manufacture and operational experience with thousands of units operating in hundreds of countries worldwide.

Why a Calorex Heat Pump?

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



Total Heat to pool ÷ Energy Consumed = Coefficient of Performance (C.O.P.)



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

SPECIFICATION

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	20	25	33	-	-	-	
Supply Fuse 3 Phase	amps	n/a	11	13	15	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	m³/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	130	
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	400	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. Calorex reserve the right to change or modify models without prior notice.
5. AW320-AW1520 have 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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