



calorex®

Heat pumps for swimming pools



Full range of heat pumps for indoor and outdoor swimming pools

The best heating for your pool

Reliable and effective – Made in Europe

THE CHALLENGE:

To provide the swimming pool design engineer with a solution to pool heating which will reliably and economically heat a swimming pool, regardless of ambient air temperature and location.



Enjoyable swimming

The fun starts with the comfort that a heat pump offers! Controlling the temperature of water is essential to ensure the joy of swimming throughout the season.

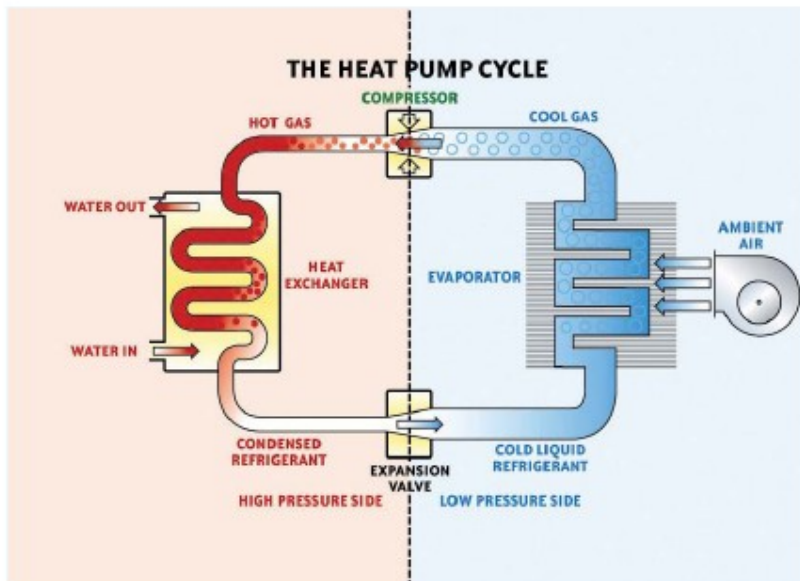
A prolonged swimming season

Why should we only appreciate the two warmest months of summer when it is possible to extend this pleasure, regardless of the vagaries of the weather?

The assurance of an automatic system:

Set your temperature – let Calorex technology do the rest! Our heat pumps are specifically designed for swimming pool heating and this means that all components used in their construction are designed to give maximum efficiency at swimming pool conditions and will give years of trouble free service.

Calorex ranks among the world leaders in heat pump technology



The main advantages of a Calorex heat pump

- 74% less emissions than an oil boiler
- Low operating cost
- Designed and built especially for swimming pools
- water heated to 35°C
- Simple installation
- Long lifespan
- Suitable for swimming pools in operation throughout the year*
- Minimum maintenance

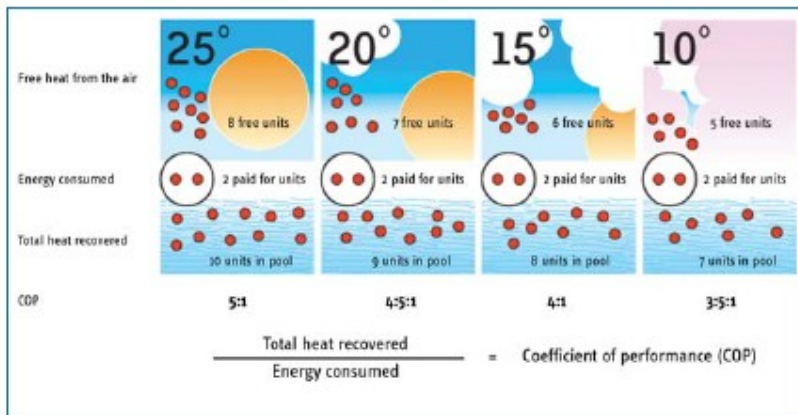
* Y Versions

THE SOLUTION!

A heat pump for comfort and well-being at low cost. Calorex offers a range of heat pumps for all types and sizes of pools.

Why a heat pump?

The heat pump is now recognised as one of the most economical and environmentally friendly methods of dynamically heating a swimming pool. Its principle allows heating of your swimming pool water by enhancing the free and natural energy in the air to a usable form of heat whilst respecting the environment. By careful design a Calorex heat pump is capable of providing your pool with up to five units of absorbed heat for every one unit paid for.



Why Calorex ?

- Calorex is a pioneer in the development of heat pumps and has proven performance and reliability for over 30 years.
- Our products are specially designed using the most modern technology.
- Calorex is approved under ISO 9001 version 2000.
- A Calorex heat pump can heat a public or private swimming pool to 35°C.
- Our products are specially designed for the pool, they are not converted air conditioners, which means that all components used in their construction are carefully chosen to provide maximum efficiency and reliability.
- Calorex heat pumps are charged with non toxic, biodegradable, CFC free refrigerant, which has no detrimental impact on the earth's protective ozone layer.

calorex®



THE PREMIUM 31 RANGE

The Premium 31 range is specifically designed for heating swimming pools with the option of swimming for a longer season.

A complete range for private swimming pools

This comprehensive range of high quality units, producing up to 21 kilowatts, is suitable for both the leisure industry and private pools.

The Premium 31 range is available with an option that allows all year round operation.

Our products are the only ones on the market to incorporate sound and heat insulation of the inner panels therefore making them extremely quiet.



The advantages:

- ✔ Heats spas and swimming pools up to 35°C
- ✔ All models are available in three phase
- ✔ All components are installed inside the machine to enhance visual impact
- ✔ Fitted with a Titanium heat exchanger - compatible with all types of water treatment
- ✔ Eco friendly and economic to run
- ✔ Simple to use
- ✔ Automatic controls and operation
- ✔ Water flow switch with flow status indication

Calorex heat pumps are fitted with a Titanium heat exchanger - compatible with all types of water treatment



THE COMPACT 29 RANGE

The compact 29 range is distinguished by its small footprint and has all the advantages of a Calorex heat pump.

Efficiency and reliability

The 29 range consists of two single phase models, 8.8 kW and 12kW. Their compact form is aesthetically pleasing and they can be placed discretely in the pool area or sited in a plant room.

These models are elegant and simple to use. Just set the thermostat to ensure fully automatic operation throughout the season.

The advantages:

- ✓ Extremely quiet
- ✓ Titanium heat exchanger compatible with all types of water treatment
- ✓ Digital thermostat
- ✓ Flexible Installation
- ✓ Totally automatic operation
- ✓ Ecologically sound and economic to run



The 29 range will appeal to individuals and professionals

THE COMMERCIAL RANGE

The models Pro-Pac-30, 45, 70, 90,140 are designed for the heating of the larger private or commercial pools.

A complete range for public pools

Pro-Pac swimming pool heat pumps are available in a range of sizes that can provide an economical heating solution from the smallest to the largest size of commercial swimming pools.

Pro-Pac swimming pool heat pumps are also suitable for larger domestic pools.

The advantages:

- ✓ Available in 'all season' versions
- ✓ Titanium heat exchanger
- ✓ Reverse cycle defrost
- ✓ Vertical ventilation
- ✓ Quiet operation
- ✓ Digital thermostat
- ✓ Easy to use
- ✓ Water flow switch



Calorex Pro-Pac heat pumps are strong and reliable

TECHNICAL DATA

Air to water heat pumps for swimming pool water heating during ambient temperatures above 7°C

STANDARD MODELS		629	829	631	831	1231	1531	Pro-Pac 30	Pro-Pac 45	Pro-Pac 70	Pro-Pac 90	Pro-Pac 140
Capacity												
Heat output at +15°C	kW	8.8	12	8.8	12	15.2	21	32.4	39.3	62.2	78.6	124.5
Electrical input	kW	1.95	2.6	1.95	2.6	3.35	4.45	7.1	8.2	12.8	16.4	25.6
COP		4.51	4.8	4.51	4.8	4.54	4.72	4.56	4.79	4.85	4.79	4.85
Electrical data												
Electrical supply	1 phase	230 v	230 v	230 v	230 v	230 v	-	-	-	-	-	-
	3 phase	-	-	400 v	400 v	400 v	400 v	400 v	400 v	400 v	400 v	400 v
Minimum supply capacity (A) 16.5	1 phase	14.3	17.6	14	17	19	-	-	-	-	-	-
	3 phase	-	-	6	6.2	8	13	20	25	42	50	57
Maximum supply fuse (A)	1 phase	20	25	20	25	30	-	-	-	-	-	-
	3 phase	-	-	10	10	15	18	30	35	50	70	100
Air data												
Nominal air flow	m ³ /h	1800	2700	1800	2700	3000	4700	6300	9000	13000	18000	26000
Water data												
Water flow	l/min	115	115	115	115	160	160	123	123	123	246	246
Pressure drop	m hd	1.1	1.1	1.1	1.1	2.9	2.9	4.2	12	14	12	14
Water connection		1 1/2" BSPM					2" BSPM					
General data												
Compressor		1 x Rotary	1 x Rotary	1 x Rotary	1 x Rotary	1 x Scroll	1 x Scroll	1 x Scroll	1 x Scroll	1 x Scroll	2 x Scroll	2 x Scroll
Condenser		Titanium	Titanium	Titanium	Titanium	Titanium	Titanium	Titanium	Titanium	Titanium	Titanium	Titanium
Sound pressure level at 10 m	dB(A)	38	39	38	39	41	44	53	53	57	59	60
Sound pressure level at 3 m	dB(A)	49	50	49	50	52	55	62	64	68	82	71
Dimension data												
Weight	Kg	97	108	126	134	144	158	219	329	549	599	858
Width	mm	1107	1285	1076	1076	1076	1181	1555	1665	1810	2065	2210
Depth	mm	593	593	485	485	485	485	790	1060	1190	1190	1650
Height	mm	787	787	1255	1255	1355	1355	1080	1310	1310	1330	1340

Calorex reserve the right to modify this specification at any time

Option: • Soft start

TECHNICAL DATA

Air to water heat pumps for swimming pool water heating during ambient temperatures as low as -15°C

ALL SEASON MODELS		631 (Y)	831 (Y)	1231 (Y)	1531 (Y)	Pro-Pac 30 (Y)	Pro-Pac 45 (Y)	Pro-Pac 70 (Y)	Pro-Pac 90 (Y)	Pro-Pac 140 (Y)
Capacity										
Heat output at +15°C	kW	8.8	12	15.2	21	32.4	39.3	62.2	78.6	124.5
Heat output at +7°C	kW	7	9.5	12.3	16.5	25.9	31.7	50.2	63.4	100.4
Heat output at -3°C	kW	4.5	6.1	7.9	10.6	16.2	20.3	32.1	40.6	64.3
Electrical input +15°C	kW	1.95	2.6	3.35	4.45	7.1	8.2	12.8	16.4	25.6
Electrical data										
Electrical supply	1 phase	230 v	230 v	230 v	-	-	-	-	-	-
	3 phase	400 v	400 v	400 v	400 v	400 v	400 v	400 v	400 v	400 v
Minimum supply capacity (A)	1 phase	14.3	17.6	19	-	-	-	-	-	-
	3 phase	6	6.2	8	13	20	25	42	50	67
Maximum supply fuse (A)	1 phase	20	25	30	-	-	-	-	-	-
	3 phase	10	10	15	18	30	35	50	70	100
Air data										
Nominal air flow	m³/h	1800	2700	3000	4700	6300	9000	13000	18000	26000
Water data										
Water flow	l/min	115	115	160	160	123	123	123	246	246
Pressure drop	m hd	1	1	2	2	4.2	12	14	12	14
Water connection		1 1/2" BSPM								2" BSPM
General data										
Compressor		1 x Rotary	1 x Rotary	1 x Scroll	1 x Scroll	1 x Scroll	1 x Scroll	1 x Scroll	2 x Scroll	2 x Scroll
Condenser		Titanium	Titanium	Titanium	Titanium	Titanium	Titanium	Titanium	Titanium	Titanium
Sound pressure level at 10 m	dB(A)	38	39	41	44	53	53	57	59	60
Sound pressure level at 3 m	dB(A)	49	50	52	55	62	64	68	82	71
Dimensions										
Weight	Kg	133	142	157	170	219	329	549	599	858
Width	mm	1076	1076	1076	1181	1555	1665	1810	2065	2210
Depth	mm	485	485	485	485	790	1060	1190	1190	1650
Height	mm	1255	1255	1355	1355	1080	1310	1310	1330	1340

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Option: • Soft start

Technical support and service:

Comprehensive engineering support is provided
by our technical and well qualified team

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English Outdoor V3

