



PRODUCT RANGE

POOL HEATING AND COOLING

Swimming pool heat pumps, heat cool systems and water chillers

ABOUT THE DANTHERM GROUP

Control your climate

The Dantherm Group is a leading provider of climate control products and solutions. The group companies have more than 60 years of experience in designing and manufacturing high quality and energy efficient equipment for heating, cooling, drying and ventilation for a wide range of mobile and fixed applications.

Every year Dantherm uses significant resources on product development to stay in the forefront and are constantly adapting the products to changing market demands and legislation.

AERIAL®

 **calorex**

Dantherm®

MASTER®
CLIMATE SOLUTIONS

The Dantherm Group has a number of strong brands with well established market positions in the mobile, pool, commercial/industrial and residential markets.

Dantherm customers benefit from our comprehensive knowledge base and the experience and expertise that we have gained from more than three million climate control products and solutions sold worldwide.

Global reach

The Dantherm Group is headquartered in Skive, Denmark and has an own market presence in Norway, Sweden, United Kingdom, Germany, Switzerland, Italy, Spain, Poland, Russia, China and United Arab Emirates.

In 2016 the Dantherm Group was acquired by the Swedish equity fund Procuritas Capital Investors V LP – a strong owner with the ambition to continue the development and growth of the company.

CALOREX POOL PRODUCTS

INDEX



POOL

POOL WATER HEATING

SMALL POOLS..... 6-7

LARGE POOLS 8

POOL WATER HEATING AND COOLING

DOMESTIC AND COMMERCIAL 9-12

POOL WATER COOLING

DOMESTIC AND COMMERCIAL 13-17



THE CHALLENGE

To provide a solution to temperature control which will reliably and economically heat or cool a swimming pool, regardless of ambient air temperature and location.

Enjoyable swimming

Dependable swimming pool temperature control is a key feature to enjoyable swimming.

For a swim to be refreshing and invigorating the pool water must be the right temperature for the swimmer, regardless of the influence of seasonal weather.

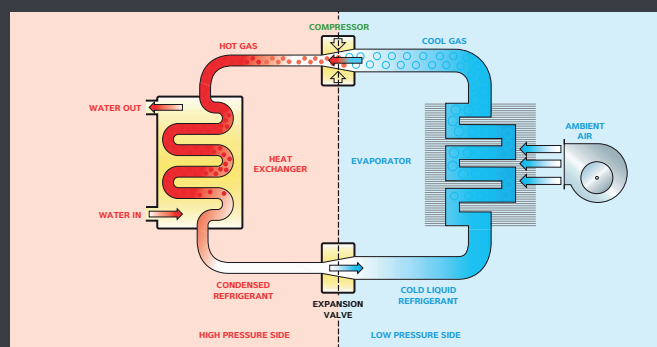
Winter heating

During winter, swimming pools continually evaporate water and radiate heat. The combination of these factors causes heat loss which must be replaced through a heater if comfortable water temperatures are to be maintained.

Summer cooling

During summer, swimming pools are subjected to massive solar gain. Coupled with high ambient humidities which prevent pools from cooling through evaporation, swimming pool water will become uncomfortably hot unless dynamically cooled.

The heat pump cycle





Calorex heat pumps can be used for either heating a pool, cooling a pool or both making them the ultimate temperature control product

THE SOLUTION

The answer to this problem is the Calorex range of purpose built heat pumps, chillers and heat cool systems for use in any size pool and plant room.

Our products

Calorex heat pumps are specifically designed for swimming pool heating and cooling.

This means that all components used in their construction are designed to give maximum efficiency and reliability at swimming pool conditions, even in the toughest climates.

Why heat pumps?

Heat pumps are recognised as the most sustainable way to dynamically heat or cool swimming pool water saving both energy and operating costs.

Unlike electric flow heaters and boilers that can only provide pool heating, Calorex heat pumps will automatically either heat or cool your pool without the need for additional equipment.

As an added bonus, a Calorex heat pump will produce up to five times the energy it consumes, dramatically reducing the energy consumption of your swimming pool.

Rapid installation, flexible operation

Fully self-contained units, Calorex heat pumps easy to install and when it comes to operation, units offer quiet, reliable and safe performance.

Year round operation

Calorex heat pumps have various operating temperatures and will suit different environments and climates.

Benefits

- Up to 400% operating cost and carbon saving against direct electric heaters
- Up to 47% operating cost saving against fossil fuel boilers
- Up to 60% carbon saving against fossil fuel boilers
- No flues or fuel storage tanks
- Simple installation and long service life
- Minimal maintenance
- Easy to retrofit to existing swimming pool systems



POOL WATER HEATING

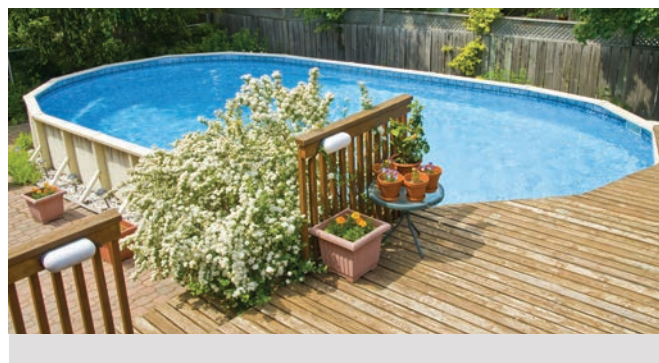
SMALL POOLS



COM-PAC 8

Options

- Winter protection cover



Features

- Quiet, aesthetically pleasing design
- ABS cabinet
- Scroll or Rotary compressor
- Titanium heat exchanger
- Reverse cycle defrost – operation to 3°C air temp
- Can heat water to 40°C
- 'Smart' pool pump control
- Condensate collection
- Water flow switch
- Three year limited parts supply warranty, first year includes labour
- Designed and manufactured in collaboration with Dantherm Group R&D

Applications

- Outdoor pools
- Private pools
- Spa pools
- Above ground pools
- Wellness centres
- Therapy pools



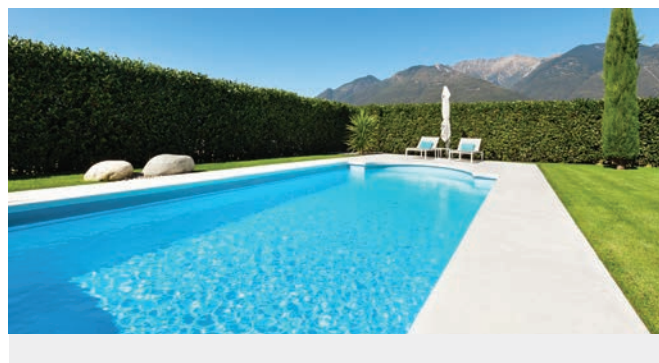
Specifications	Units	COM-PAC 6	COM-PAC 8	COM-PAC 12	COM-PAC 15	COM-PAC 20
Operating temperature range	°C	3-35	3-35	3-35	3-35	3-35
Water temperature range	°C	15-40	15-40	15-40	15-40	15-40
Ambient air 20°C/60% RH	kW	6.3	8.2	11.7	15.3	20.6
Ambient air 15°C/70% RH	kW	6.0	7.3	10.0	13.9	18
Power supply	V/ph/Hz	220-240/1ph/50	220-240/1ph/50	220-240/1ph/50	220-240/1ph/50	380-415/3ph/50
Max. power input	kW	2.33	2.71	3.83	5.94	7.82
Max. current	A	9.76	12.32	17.41	27.00	12.30
Refrigerant		R410a	R410a	R410a	R410a	R410a
Min./max. pressure	Pa	1.5/4.15	1.5/4.15	1.5/4.15	1.5/4.15	1.5/4.15
Air flow	m³/h	2000	2000	3800	3800	3800
Sound level @ 1m	dB(A)	46	47	48	48	50
Sound level @ 10m	dB(A)	28	29	30	30	32
Product size (h x w x d)	mm	968 x 654 x 405	968 x 654 x 405	1130 x 709 x 490	1130 x 709 x 490	1225 x 807 x 570
Weight	kg	51	53	72	93	108

POOL WATER HEATING

SMALL POOLS



PRO-PAC 12



Features

- Plastisol coated cabinet and ABS top cover
- Intelligent electronic defrost
- Can be installed outside or in a plant room
- Choice on in-built thermostat positions
- High efficiency full flow Titanium condenser
- Leading brand rotary or scroll compressors
- Quiet, efficient owl axial fans
- Water flow switch
- Pool pump synchronisation control
- Soft start options
- Pro-Pac X models operate in air temperatures above +5°C. These models are designed for seasonal use
- Pro-Pac Y models are fitted with reverse cycle defrost and will operate in air temperatures as low as -15°C, therefore they are suitable for all season use and indoor swimming pools

Applications

- Indoor or outdoor pools
- Private pools
- Spa pools
- Hotel pools
- Wellness centres
- Therapy pools



Specifications	Units	PRO-PAC 8X PRO-PAC 8Y	PRO-PAC 12X PRO-PAC 12Y	PRO-PAC 16X PRO-PAC 16Y	PRO-PAC 22X PRO-PAC 22Y
Output @ +15°C ambient temperature	kW	8.8	12	15.2	21
Output @ +7°C ambient temperature	kW	7	9.5	12.3	16.5
Output @ -3°C ambient temperature*	kW	4.5	6.1	7.9	10.6
Input @ +15°C ambient temperature	kW	2.0	2.6	3.4	4.5
Power supply	V/Hz	230/1ph/50	230/1ph/50	230/1ph/50	230/1ph/50
	V/Hz		400/3ph/50	400/3ph/50	400/3ph/50
Minimum supply capacity	A (1ph/3ph)	14/N/A	17/6.4	19.8/8	31/13
Recommended supply fuse	A (1ph/3ph)	20/N/A	25/10	30/15	42/20
Air flow	m³/h	2200	3300	3500	4100
Flow rate	l/min	75	75	125	167
Pressure drop	m hd	0.1	0.1	0.1	0.6
Water connections	inch	1½ BSPM or 50mm female	1½ BSPM or 50mm female	1½ BSPM or 50mm female	1½ BSPM or 50mm female
Compressor		1 x Rotary	1 x Rotary	1 x Scroll	1 x Scroll
Condenser		Titanium	Titanium	Titanium	Titanium
Sound level @ 10m	dB(A)	38	39	41	44
Sound level @ 3m	dB(A)	50	47	48	52
Product size (w x d x h)	mm	1237 x 535 x 725	1237 x 535 x 725	1237 x 535 x 725	1237 x 535 x 904
Weight - X models	kg	91	96	118	122
Weight - Y models	kg	96	112	136	141

*Y model only



POOL WATER HEATING

LARGE POOLS



PRO-PAC 30

Options

- Soft start
- High pressure fan

Applications

- Indoor or outdoor pools
- Water parks
- Hotel pools
- Holiday parks and campsites



Features

- Capacities from 32kW to 125kW
- Purpose designed components for pool heating
- Can be installed outside or in a plant room
- High efficiency spiral wound full flow titanium condenser
- Leading brand scroll compressors
- Quiet, efficient outlet axial fans
- Plastisol coated cabinet
- Water flow switch
- Condensate collector
- Standard models operate in air temperatures above +10°C. These models are designed for seasonal use
- Pro-Pac Y models are fitted with reverse cycle defrost and will operate in air temperatures as low as -15°C, therefore they are suitable for all season use and indoor swimming pools

Specifications	Units	PRO-PAC 30 PRO-PAC 30Y	PRO-PAC 45 PRO-PAC 45Y	PRO-PAC 70 PRO-PAC 70Y	PRO-PAC 90 PRO-PAC 90Y	PRO-PAC 140 PRO-PAC 140Y
Output @ +15°C ambient temperature	kW	32.4	39.3	62.2	78.6	124.5
Output @ +7°C ambient temperature	kW	25.9	31.7	50.2	63.4	100.4
Output @ -3°C ambient temperature*	kW	16.2	20.3	32.1	40.6	64.3
Input @ +15°C ambient temperature	kW	7.14	8.2	12.8	16.4	25.6
Power supply	V/Hz	400/3ph/50	400/3ph/50	400/3ph/50	400/3ph/50	400/3ph/50
Minimum supply capacity	A	20	22	35	43	67
Recommended supply fuse	A	30	30	50	60	100
Nominal air flow	m³/h	5500	12000	14000	24000	28000
Water flow	l/min	250	300	500	600	1000
Pressure drop	m hd	0.7	0.4	1.5	1.4	2.1
Water connections	inch	2 Union	2 Union	3 BSPM	3 BSPM	4 BSPM
Compressor		1 x Scroll	1 x Scroll	1 x Scroll	2 x Scroll	2 x Scroll
Condenser		Titanium	Titanium	Titanium	Titanium	Titanium
Sound level @ 10m	dB(A)	54	55	59	55	59
Sound level @ 3m	dB(A)	64	65	70	65	70
Product size (w x d x h)	mm	1585 x 790 x 1080	1695 x 1060 x 1330	1840 x 1190 x 1310	2095 x 1190 x 1350	2250 x 1650 x 1340
Weight - Standard models	kg	219	330	417	633	816
Weight - Y models	kg	233	337	435	661	880

* Y model only



HEAT COOL SYSTEMS

Take control of your pool heating and cooling with the Calorex 34 and Pro-Pac ranges.

Our products

Calorex were the first to develop heat cool units for swimming pools and in doing so set the standard for proven performance and reliability. We have thousands of units in operation throughout the Gulf States, the oldest installed in 1981.

As further testament to our commitment for manufacturing quality, Calorex is an ISO 9001 accredited company under Lloyds register and all our products are tested in accordance with EU standards.

Calorex is also a founder member of the Microgeneration Scheme (MCS), a UK Government controlled initiative that demands independent product witness testing as part of a tough quality control procedure.

Calorex 34 range

Designed for ducted installation within a plant room or for outdoor installation the 34 range has proven to set the benchmark standard for swimming pool heating and cooling.

Given the challenges that swimming pool designers face in locating a plant so that it cannot be seen or heard, the 34 range is designed with plant room installation in mind, alleviating the difficulties associated with external siting.

Thanks to its centrifugal fan with variable external pressure capabilities, the 34 range can be ducted without loss of performance and comes with a stainless steel drip tray and heavily insulated cabinet as standard.

Calorex Pro-Pac range

Designed for non-ducted plant rooms or outdoor installation Pro-Pac units offer an economic solution to swimming pool heating and cooling, with the same reliability and efficiency as 34 range units.

R134a - the correct refrigerant in harsh conditions

R134a is a non ozone depleting refrigerant which is specifically designed for high temperature applications. The refrigerant within a heat pump circuit is the life blood of its operation and will determine operational efficiency and reliability.

The operating envelope of R134a is far greater than that of other commonly used refrigerants. This ensures that the heat pump will have a larger safety margin and always operate well within its capabilities, even in temperatures of 55°C and beyond.



POOL WATER HEATING AND COOLING

DOMESTIC AND COMMERCIAL (CENTRIFUGAL FAN)



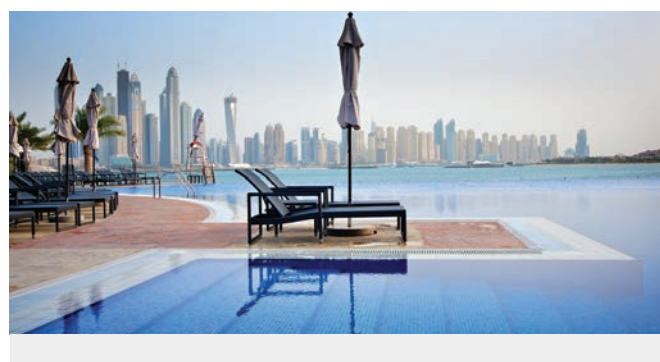
AW 1234BHC

Options

- Chiller or heater only
- Rear or top outlet on 3034 or 7034
- Soft start
- High pressure fan
- 3ph, 60Hz versions

Applications

- Outdoor and indoor pools (Gulf and SE Asia)
- Health clubs and wellness centres
- Hotels and spa pools



Features

- Designed for the Gulf climate
- Reduced energy consumption
- No additional equipment required
- Simple installation and long service life
- Suitable for all year round pool use
- Minimal maintenance
- Low operating costs
- Zero ozone depleting R134a refrigerant – unlike R22 and R407C, R134a will operate reliably throughout every possible Gulf climatic condition
- Fully automatic operation
- Water flow switch (3034 & 7034 models)
- Weather and corrosion resistant construction including plastisol coated galvanised steel cabinet and epoxy coated coils
- 90/10 marine grade heat exchangers

Specifications	Units	AW 634 AHC	AW 1234 BHC	AW 3034 BHC	AW 7034 BHC
Performance @ air on 20C/85% RH	Heating				
Heat output to water (@ 28°C)	kW	8	13	44	70
Electrical input	kW	1.7	3.5	8.2	12.8
Performance @ air on 45°C/50% RH	Cooling				
Cooling to water (@ 32°C)	kW	6.5	10.2	27	45
Electrical input	kW	2.0	4.1	9.2	15.7
Power supply	V/Hz	240/1ph/50	400/3ph/50	400/3ph/50	400/3ph/50
Recommended max. supply & fuse capacity	A	13	16	35	60
Max. starting current standard (LRA)	A	32	48	126	126
Nominal air flow	m ³ /h	1500	3000	10000	11700
Fan external resistance (standard)	Pa	50	0	0	0
High pressure fan	Pa	Variable to meet customer requirements			
Water flow ±10%	l/min	33	33	66	130
Pressure drop (water)	m hd	2.1	2.2	2.5	5.3
Water connections	"BSPM	¾	¾	1½	1½
Condensate water connections	"BSPM	¾	¾	1½	1½
Compressor type		Recip	Scroll	Scroll	Scroll
Fan type		1x Centrifugal	1x Centrifugal	1x Centrifugal	1x Centrifugal
Sound level @ 3m	dB(A)	63	65	72	68
Product size (w x d x h)	mm	820 x 702 x 762	1060 x 705 x 807	1700 x 1090 x 1212	1950 x 1340 x 1212
Weight	kg	111	157	411	690

POOL WATER HEATING AND COOLING

DOMESTIC AND COMMERCIAL (AXIAL FAN)



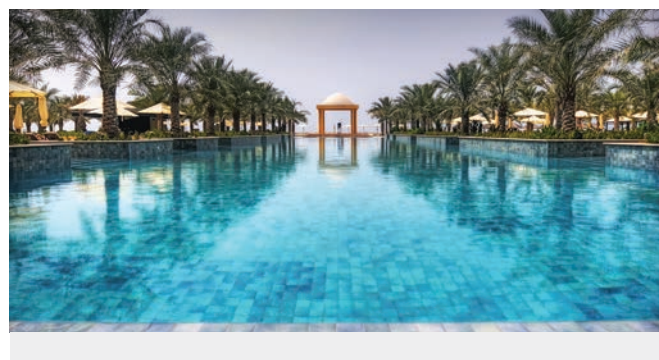
PRO-PAC 16BHC

Options

- Chiller or heater only
- 3ph, 60Hz versions
- Soft start
- High pressure fan
- Condensate insulation kit for plant room installations

Applications

- Outdoor and indoor pools (Gulf and SE Asia)
- Health clubs and wellness centres
- Hotels and spa pools



Features

- Designed for the Gulf climate
- Zero ozone depleting R134a refrigerant – ensures reliable, efficient operation regardless of air temperature
- Titanium or CuNi heat exchanger
- Fully automatic operation
- Scroll compressors
- Water flow switch on all models
- Comprehensive circuit protection
- Quiet, efficient owl axial fans
- Weather-proof construction
- Digital thermostat – choice of in-built positions

Specifications	Units	PRO-PAC 16BHC	PRO-PAC 22BHC
Performance @ air on 20°C/85% RH	Heating		
Heat output to water (@ 28°C)	kW	13	19
Electrical input	kW	3.5	5
Performance @ air on 45°C/50% RH	Cooling		
Cooling to water (@ 32°C)	kW	10.2	13
Electrical input	kW	4.1	5.5
Power supply	V/Hz	400/3ph/50	400/3ph/50
Min. supply capacity	A	10	13
Recommended supply fuse	A	16	20
Max. starting current standard (LRA)	A	48	48
Max. starting current soft start (LRA)	A	25	25
Nominal air flow	m ³ /h	4000	5000
Fan external resistance (standard)	Pa	0	0
Water flow ±10% (CuNi/Titanium heat exchanger)	l/min	n/a/123	n/a/123
Pressure drop (water)	m hd	n/a/0.2	n/a/0.2
Water connections	inch	1½ F/PVC	1½ F/PVC
Condensate water connections	" BSPM	½ ABS	½ ABS
Compressor type		1 x Scroll	1 x Scroll
Fan type		1 x Axial	1 x Axial
Sound level @ 3m	dB(A)	48	52
Product size (w x d x h)	mm	1264 x 600 x 725	1264 x 600 x 725
Weight	kg	131	145

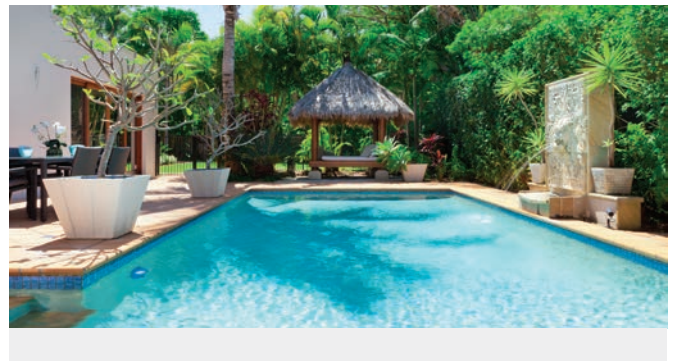


POOL WATER HEATING AND COOLING

DOMESTIC AND COMMERCIAL (AXIAL FAN)



PRO-PAC 30BHC



Options

- Chiller or heater only
- 3ph, 60Hz versions
- Soft start
- High pressure fan
- Condensate insulation kit for plant room installations

Applications

- Outdoor and indoor pools (Gulf and SE Asia)
- Health clubs and wellness centres
- Hotels and spa pools



Features

- Zero ozone depleting R134a refrigerant – ensures reliable, efficient operation regardless of air temperature
- Titanium or CuNi heat exchanger
- Fully automatic operation
- Scroll compressors
- Water flow switch on all models
- Comprehensive circuit protection
- Quiet, efficient owlet axial fans
- Weather-proof construction
- Digital thermostat

Specifications	Units	PRO-PAC 30BHC	PRO-PAC 45BHC	PRO-PAC 70BHC	PRO-PAC 90BHC	PRO-PAC 140BHC
Performance @ air on 20°C/85% RH	Heating					
Heat output to water (@ 28°C)	kW	30	45	70	90	140
Electrical input	kW	6	8.2	12.8	16.4	25.6
Performance @ air on 45°C/50% RH	Cooling					
Cooling to water (@ 32°C)	kW	21	32	49	64	98
Electrical input	kW	6.4	9.2	15.7	18.4	31.4
Power supply	V/Hz	400/3ph/50	400/3ph/50	400/3ph/50	400/3ph/50	400/3ph/50
Min. supply capacity	A	21	25	42	50	84
Recommended supply fuse	A	30	40	60	70	125
Max. starting current standard (LRA)	A	96	102	96	102	96
Max. starting current soft start (LRA)	A	33	34	33	34	33
Nominal air flow	m ³ /h	5500	11000	14000	22000	28000
Fan external resistance (standard)	Pa	0	0	0	0	0
Water flow ±10% (CuNi/Titanium heat exchanger)	l/min	n/a/250	66/300	133/500	166/600	266/1000
Pressure drop (water)	m hd	n/a/0.7	4.5/0.4	3.4/1.5	4.5/1.7	5.3/2.1
Water connections	inch	n/a/2 union	1½ BSPM/2 union	1½/3 BSPM	1½/3 BSPM	2/4 BSPM
Condensate water connections	" BSPM	1½	1½	1½	1½	1½
Compressor type		1 x Scroll	1 x Scroll	2 x Scroll	2 x Scroll	4 x Scroll
Fan type		1 x Axial	1 x Axial	1 x Axial	2 x Axial	2 x Axial
Sound level @ 3m	dB(A)	64	65	70	65	70
Width	mm	1525	1665	1810	2065	2210
Depth	mm	790	1060	1190	1190	1650
Height	mm	1080	1310	1310	1330	1340
Weight	kg	219	329	549	599	1065



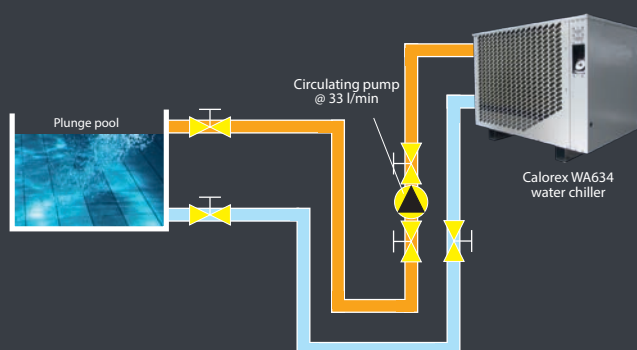
WATER CHILLERS

Calorex water chillers are ideal for plunge pools in spas and water immersion pools for sports recovery.

Cold plunge pool water

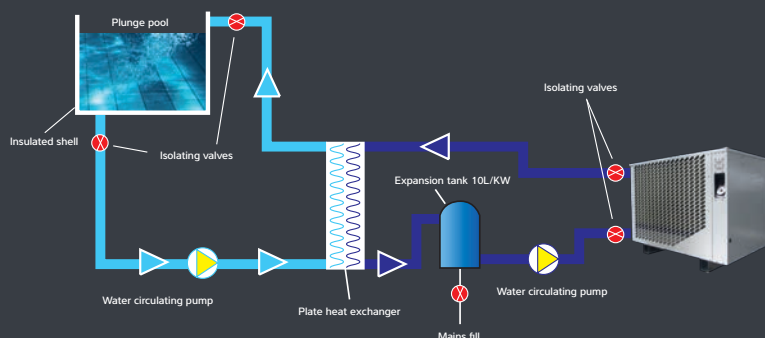
Cold-water treatments have been used for thousands of years all over the world to maintain physical health. It improves circulation and the immune system, makes for healthy skin and hair and increases energy.

A Calorex water chiller can provide a plunge pool in your home or business with the temperature you need. The chemical resistant cupro-nickel material of the heat exchangers and the use of R134a refrigerant means that these chillers can be connected directly to the pool water circuit and chill the water to 10°C. Also, due to the weatherproof construction of the chillers, you have a range of installation options for both plants rooms and outside areas.



When cool is not cold enough

Whether you are a professional footballer, athlete or keen sports person, cold-water immersion is a very popular treatment method for repairing muscles and speeding up recovery from injuries. In certain situations, where 10°C is not cold enough, the water for these treatments is required to be as low as 4°C. Water may also need to be as low as this in some commercial and industrial processes. In these cases, the chillers can be connected in line with a stainless steel plate heat exchanger, and connected to the water. This allows a glycol mix to be used in the chiller to get the temperatures required.



For correct sizing of the chiller and/or plate heat exchanger for all applications please contact our dedicated sales team who can assist in tailoring the selection for your project.



POOL WATER COOLING

DOMESTIC (CENTRIFUGAL FAN)



WA 634ACL
WA 634ACH

Options

- Available in 60Hz



Features

- Domestic sizes giving up to 900 litres per hour of cold water production
- Fully packaged, robust and weatherproof construction
- Quiet operation
- Purpose-built for operation in the Gulf region
- Certified cupronickel WRAS* approved heat exchanger to withstand pool chemicals and allow the unit to be used in a direct system
- Non ozone depleting refrigerant (R134a)

* WRAS is a conformance mark that demonstrates that an item complies to strict standards set out by UK water regulations. This standard gives you peace of mind that approved products will not contaminate your water supply and are safe to use within their stated pressure and temperature ranges.

Applications

- Homes and villas
- Plunge pools



Specifications	Units	WA 634ACL	WA 634ACH	WA 1234BC
Operating range				
Air temperature	°C	0-50	10-50	10-50
Water temperature	°C	10-38	10-38	10-38
Output				
Output @ air 43°C, water 21°C	kW	5	5	9
Nominal cold water production	l/h	500	500	900
Min./max. tank size	l	60/500	60/500	110/1000
Electrical data				
Electrical input	kW	2	2	4.1
Voltage	V/Hz/phase	220-240/50/1ph	220-240/50/1ph	400/50/3ph
Max. supply fuse	A	13	13	16
Starting current	A	32	32	48
Water data				
Water flow	l/min ±10%	33	33	33
Flow resistance	mhd	2.1	2.1	2.1
Connections	inch	¾ BSPM	¾ BSPM	¾ BSPM
Air data				
Nominal air flow	m³/h	1500	1500	3000
Fan external resistance (standard)	Pa	50	50	50
Fan type		1 x Centrifugal	1 x Centrifugal	1 x Centrifugal
Sound pressure level @ 3m	dB(A)	63	63	65
Product size (w x d x h)	mm	820 x 702 x 762	820 x 702 x 762	1060 x 705 x 807
Weight	kg	111	111	157

POOL WATER COOLING

DOMESTIC AND COMMERCIAL (AXIAL FAN)



PRO-PAC 16BC

Options

- Available in 60Hz

Applications

- Sports academies
- Sports training facilities
- Plunge pools
- Therapy pools



Features

- Domestic sizes giving up to 900 litres per hour of cold water production
- Mono-block design with choice of in-built thermostat positions
- Fully packaged, robust and weatherproof construction
- Quiet operation
- Purpose-built for operation in the Gulf region
- Certified cupronickel WRAS* approved heat exchanger to withstand pool chemicals and allow the unit to be used in a direct system
- Non ozone depleting refrigerant (R134a)

* WRAS is a conformance mark that demonstrates that an item complies to strict standards set out by UK water regulations. This standard gives you peace of mind that approved products will not contaminate your water supply and are safe to use within their stated pressure and temperature ranges.

Specifications	Units	PRO-PAC 16BC	PRO-PAC 22BC
Operating range			
Air temperature	°C	10-50	10-50
Water temperature	°C	10-38	10-38
Performance			
@ Air on 45°C/50% RH	Cooling		
Cooling to water (@ 32°C)	kW	10.2	13
Electrical input	kW	4.1	5.5
Electrical data*			
Power supply	V/Hz	400/3ph/50	400/3ph/50
Min. supply capacity	A	10	13
Recommended supply fuse	A	16	20
Max. starting current standard (LRA)	A	48	48
Max. starting current soft start (LRA)	A	25	25
Air data			
Nominal air flow	m³/h	4000	5000
Fan external resistance (standard)	Pa	0	0
Water data			
Water flow ±10% (CuNi heat exchanger)	l/min	33	33
Pressure drop (water)	m hd	4.2	4.2
Water connections	" BSPM	1½ F	1½ F
Compressor type		1 x Scroll	1 x Scroll
Fan type		1 x Axial	1 x Axial
Sound pressure level @ 3m	dB(A)	48	52
Product size (w x d x h)	mm	1264 x 600 x 725	1264 x 600 x 725
Weight	kg	131	145



POOL WATER COOLING COMMERCIAL (AXIAL FAN)



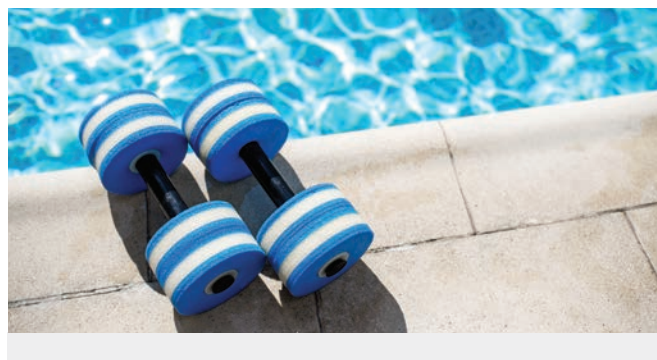
PRO-PAC 140BC

Options

- Available in 60Hz

Applications

- Sports academies
- Sports training facilities
- Plunge pools
- Therapy pools



Features

- Fully packaged, robust and weatherproof construction
- Quiet operation
- Purpose-built for operation in the Gulf region
- Certified cupronickel WRAS* approved heat exchanger to withstand pool chemicals and allow the unit to be used in a direct system
- Non ozone depleting refrigerant (R134a)

* WRAS is a conformance mark that demonstrates that an item complies to strict standards set out by UK water regulations. This standard gives you peace of mind that approved products will not contaminate your water supply and are safe to use within their stated pressure and temperature ranges.

Specifications	Units	PRO-PAC 30BC	PRO-PAC 45BC	PRO-PAC 70BC	PRO-PAC 90BC	PRO-PAC 140BC
Operating range						
Air temperature	°C	10-50	10-50	10-50	10-50	10-50
Water temperature	°C	10-38	10-38	10-38	10-38	10-38
Performance						
@ Air on 45°C/50% RH	Cooling					
Cooling to water (@ 32°C)	kW	21	32	49	64	98
Electrical input	kW	6.4	9.2	15.7	18.4	31.4
Electrical data						
Power supply	V/Hz	400/3ph/50	400/3ph/50	400/3ph/50	400/3ph/50	400/3ph/50
Min. supply capacity	A	21	25	42	50	84
Recommended supply fuse	A	30	40	60	70	125
Max. starting current standard (LRA)	A	96	102	96	102	96
Max. starting current soft start (LRA)	A	33	34	33	34	33
Air data						
Nominal air flow	m³/h	5500	11000	14000	22000	28000
Fan external resistance (standard)	Pa	0	0	0	0	0
Water data						
Water flow ±10% (CuNi heat exchanger)	l/min	66	66	133	166	266
Pressure drop (water)	m hd	2.1	4.5	3.4	4.5	5.3
Water connections	" BSPM	1½	1½	1½	1½	2
Compressor type		1 x Scroll	1 x Scroll	2 x Scroll	2 x Scroll	4 x Scroll
Fan type		1 x Axial	1 x Axial	1 x Axial	2 x Axial	2 x Axial
Sound pressure level @ 3m	dB(A)	62	64	68	70	71
Product size (w x d x h)	mm	1525 x 790 x 1080	1665 x 1060 x 1310	1810 x 1190 x 1310	2065 x 1190 x 1330	2210 x 1650 x 1340
Weight	kg	219	329	549	599	1065

POOL WATER COOLING

COMMERCIAL (CENTRIFUGAL FAN)



AW 7034BC

Options

- Rear or top outlet
- Soft start
- High pressure fan
- 3ph, 60Hz versions

Applications

- Homes and villas
- Hotels
- Pools and sports training facilities



Features

- Zero ozone depleting R134a refrigerant - unlike R22 and R407C, R134a will operate reliably throughout every possible Gulf climatic condition
- Designed and manufactured in the UK to CE standards
- Fully automatic operation
- Scroll compressors
- Water flow switch
- Weather and corrosion resistant construction including plastisol coated galvanised steel cabinet and epoxy coated coils
- 90/10 marine grade heat exchangers

Specifications	Units	AW 3034BC	AW 7034BC
Performance @ air on 45°C/50% RH			
Cooling to water (@ 32°C)	kW	27	45
Electrical input	kW	9.2	15.7
Electrical data			
Power supply	V/Hz	400/3ph/50	400/3ph/50
Recommended maximum supply & fuse capacity	A	35	60
Maximum starting current standard (LRA)	A	126	126
Air data			
Nominal air flow	m ³ /h	10000	11700
Fan external resistance (standard)	Pa	0	0
High pressure fan	Pa	Variable to meet customer requirements	Variable to meet customer requirements
Water data			
Water flow ±10%	l/min	66	130
Pressure drop (water)	m hd	2.5	5.3
Water connections	inch	1½ BSPM	1½ BSPM
Condensate water connections	inch	1½ BSPM	1½ BSPM
Gas type		R134a	R134a
Compressor type		Scroll	Scroll
Fan type		1x Centrifugal	1x Centrifugal
Sound level @ 3m	dB(A)	72	68
Product size (w x d x h)	mm	1700 x 1090 x 1212	1950 x 1340 x 1212
Weight	kg	411	690

