SWIMMING POOL HEAT PUMPS

While all heat pumps offer sustainable, dynamic heating or cooling for your swimming pool, none offer the same energy savings and reduced running costs as our Calorex range.

Our heat pump systems provide total temperature control all year round, working at temperatures as low as -10°C for both indoor and outdoor pools. This versatility and reliability across our range ensures your water remains at the optimal warmth, whether you run a busy leisure park, a soothing spa, or are taking care of your own pool at home.

As well as effortless heating and cooling, Calorex heat pumps can save you up to 75% on both operating costs and carbon savings against electric heaters, offering a solution that is as economic as it is effective.

CALOREX C-PAC+ 6-8-12-15-20

CE

C-PAC+ heat pumps are an environmentally friendly and efficient way to heat your swimming pool. The low energy consumption coupled with high heat production makes for lower pool running costs. Unlike alternative ways of heating your pool, the C-PAC+ requires no fuel storage tank or high capacity electrical supply and produces no smells, fumes or CO_2 gases.

- Quiet, aesthetically pleasing design
- Eco-friendly refrigerant R32* = 675 GWP, (Global Warming Potential)
- ABS cabinet
- Rotary compressor
- Titanium heat exchanger
- Reverse cycle defrost – operation to -10°C air temperature
- Can heat water to 40°C
- Multifunction operation – can be set to heating, cooling and heat/cool
- 'Smart' pool pump control
- Water flow switch

*Only C-PAC+ 6-15 are R32.

Included in the box

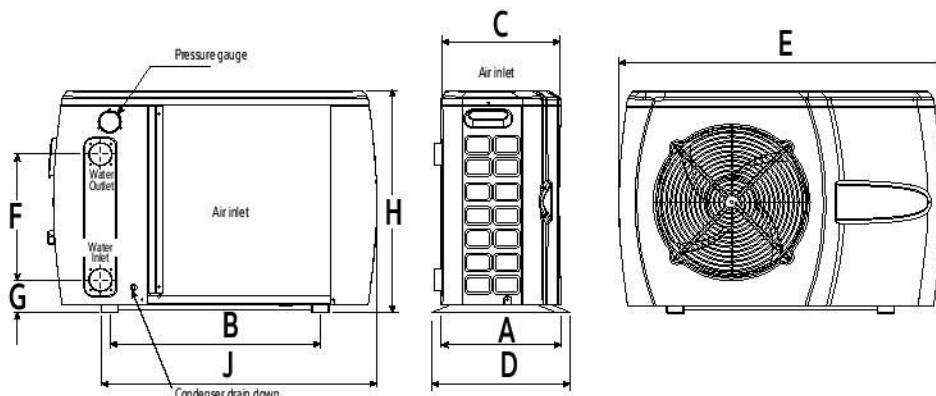
Rubber feet (kit of 4)
1005526

Drainage kit
1005558

Water union connectors 2 x 1½ 2 x 50mm 1005629

Dantherm CLIMATE SOLUTIONS

CALOREX C-PAC+ 6-8-12-15-20

CE

Dimensions (mm)

Model	A	B	C	D	E	F	G	H	J
C-PAC+ 6ALY	381	620	363	405	968	370	96	654	741
C-PAC+ 8ALY	381	620	363	405	968	370	96	654	741
C-PAC+ 12ALY	466	750	443	490	1130	395	87	709	933
C-PAC+ 15ALY	466	750	443	490	1130	395	87	709	933
C-PAC+ 20ALY	496	870	470	520	1299	475	65	809	1077

Specifications	Units	C-PAC+6ALY	C-PAC+8ALY	C-PAC+12ALY	C-PAC+15ALY	C-PAC+20BLY
Air temperature range	°C	-10-43	-10-43	-10-43	-10-43	-10-43
Water temperature range	°C	8-40	8-40	8-40	8-40	8-40
Performance – air 24°C 80% RH, Water 26°C						
Heating capacity	kW	7.5	8.9	13.5	16.9	23.1
Input power	kW	1.2	1.4	2.0	2.7	4.6
COP	-	6.3	6.4	6.6	6.3	5.0
Performance – air 15°C 70% RH, Water 26°C						
Heating capacity	kW	5.8	6.9	10.8	14.1	20.0
Input power	kW	1.2	1.4	2.1	2.7	4.9
COP	-	4.6	4.8	5.2	5.1	4.1
Performance – air 5°C 100% RH, Water 26°C						
Heating capacity	kW	4.7	5.1	8.2	10.6	14.1
Input power	kW	1.1	1.3	1.9	2.7	3.9
COP	-	4.2	3.9	4.3	3.9	3.6
Power supply	V/Hz	230/1ph/50	230/1ph/50	230/1ph/50	230/1ph/50	400/3ph/50
Max. current	A	10.0	15.3	18.3	25.3	11.1
Air flow	m³/h	2,100	2,100	3,500	3,500	5,000
Sound pressure level @ 3m	dB(A)	37	38	39	39	41
Sound pressure level @ 10m	dB(A)	28	29	30	30	32
Refrigerant		R32	R32	R32	R32	R410A
Gas weight/CO₂ equivalent	kg/t	0.9/0.61	1.0/0.68	1.5/1.01	1.5/1.01	2.8/5.85
Product size (w x d x h)	mm	933x401x657	933x401x657	1130x490x709	1133x490x709	1299x520x809
Weight	kg	50	59	71	93	117

Dantherm CLIMATE SOLUTIONS

CALOREX I-PAC 8-12-16-22

CE

- Average COP 9.7 = 2 x more efficient than on/off heat pumps
- R32 = 675 GWP, (Global Warming Potential)
- Inverter heat pump
- Power ratings from 9.5 to 25kW
- 9-11 dB(A) sound reduction compared to an equivalent on/off heat pump, with 'Whisper Mode'
- Operates in air temperatures of -5°C to 43°C
- Integrated controller with a touchscreen user interface
- Function settings for heating, cooling or heat/cool
- Soft start-up
- Aluminium alloy
- Built-in Wi-Fi module
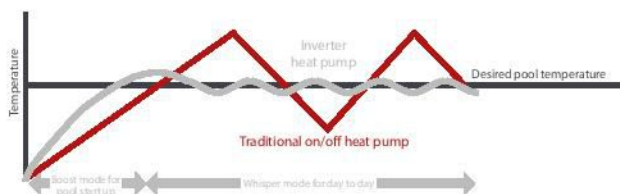- Winter protection cover included

Inverter technology allows for efficient control of the pool temperature, and the I-PAC only uses what energy is needed when it is required. High efficiency with modulating step-less inverter compressor giving an average COP of 9.7.

Temperature control chart

The PoolTherm App for our Calorex I-PAC inverter heat pumps is available on Android and iOS. Simply search for 'PoolTherm' in App Store or Google Play and download it today!

Included in the box

Rubber feet (kit of 4) 1005526

Drainage kit 1005558

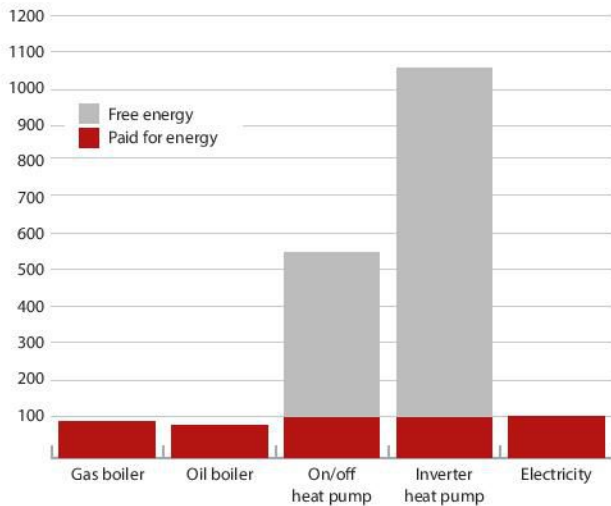**Water union connectors 2 x 1½ 2 x 50mm 1005629**

Remote LED control kit w/10m cable 1005544

Dantherm CLIMATE SOLUTIONS

SMALL INVERTER HEAT PUMPS
CALOREX I-PAC 8-12-16-22

CE

Heating method efficiency chart

- Free energy (grey)
- Paid for energy (red)

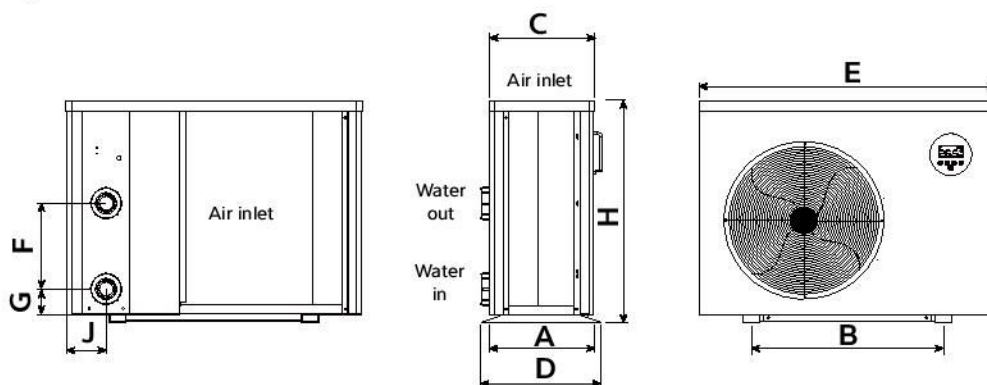Bars: Gas boiler, Oil boiler, On/off heat pump, Inverter heat pump, Electricity

Great value, and environmentally conscious heating option, with energy consumption half that of a traditional on/off heat pump, and 1/10 of that for gas or electric pool heating.

Where our heat pump sits on the decibel scale

dB	Description
190	Volcano eruption shockwaves
170	Rocket launch from 300ft away
140	Airplane taking off — Threshold of pain
110	Motorcycle revving — Extremely loud
100	Handheld drill
90	Kitchen blender
80	Vacuum cleaner — Very loud
70	Dishwasher — Loud
60	Conversational speech — Moderate to quiet
50	Refrigerator
40	Computer — Faint
30	Whisper — CALOREX INVERTER HEAT PUMPS
20	Rustling leaves
10	Breathing
0	

Dimensions (mm)

Air inlet · Water out · Water in · Air inlet

Model	A	B	C	D	E	F	G	H	J
I-PAC 8ALX	334	560	318	359	864	250	74	648	116
I-PAC 12ALX	334	560	318	359	864	290	74	648	116
I-PAC 16ALX	334	590	318	359	954	390	74	748	116
I-PAC 22ALX	404	720	388	429	1084	640	74	948	107

Dantherm CLIMATE SOLUTIONS

CALOREX I-PAC 8-12-16-22

CE

Specifications	Units	I-PAC 8ALX	I-PAC 12ALX	I-PAC 16ALX	I-PAC 22ALX
Air temperature range	°C	-5-43	-5-43	-5-43	-5-43
Water temperature range	°C	12-40	12-40	12-40	12-40
Performance – air 27°C 80% RH, water 27°C					
Heating capacity	kW	9.5	13.0	20.0	25.0
COP range		13.2-5.4	13.5-5.6	13.5-5.7	13.8-5.8
Average COP at 50% speed		8.9	9.7	9.3	9.6
Performance – air 15°C 70% RH, water 26°C					
Heating capacity	kW	7.0	9.5	13.5	17.0
COP range	kW	6.9-4.2	7.0-4.0	7.0-4.2	7.2-4.0
Average COP at 50% Speed	kW	6.3	6.1	6.3	6.4
Performance – air 5°C 70% RH, water 10°C					
Heating capacity	kW	4.1	5.6	7.9	9.9
Performance – air 35°C 80% RH, water 28°C					
Cooling capacity	kW	3.9	5.2	7.4	9.4
Power supply	V/Hz	230/1ph/50	230/1ph/50	230/1ph/50	230/1ph/50
Rated input power	kW	0.3-1.79	0.40-2.38	0.57-3.21	0.69-4.25
Maximum input current	A	9.5	12.5	19.5	20.0
Water flow	m³/h	3.0-5.0	4.0-6.0	7.0-10.0	10.0-12.0
Water connection	"/mm	1½/50	1½/50	1½/50	1½/50
Compressor		Inverter	Inverter	Inverter	Inverter
Condenser		Titanium	Titanium	Titanium	Titanium
R32 gas weight/CO_2 equivalent	kg/t	0.6/0.41	0.9/0.61	1.1/0.74	2.0/1.35
Sound pressure level @ 10m	dB(A)	19.6-31.5	21.9-32.0	24.3-36.1	24.9-36.7
Product size (w x d x h)	mm	864 x 359 x 648	864 x 359 x 648	954 x 359 x748	1084 x 429 x 948
Weight	kg	47	49	68	90

Dantherm CLIMATE SOLUTIONS

CALOREX I-PAC+ 12-16-22-28

C E

- COP >10 = 2 x more efficient than on/off heat pumps
- R32 = 675 GWP, (Global Warming Potential)
- Inverter heat pump
- Power ratings from 15 to 36kW
- 9-11 dB(A) sound reduction compared to an equivalent on/off heat pump, with 'Whisper Mode'.
- Operates in air temperatures of -10°C to 43°C
- Integrated controller with a touchscreen user interface
- Function settings for heating, cooling or heat/cool
- Soft start-up
- Aluminium alloy
- Built-in Wi-Fi module
- Winter protection cover included

Benefits

- All year heating for outdoor and indoor pools
- Can operate down to -10°C ambient air temperature
- High heating performance at lower temperatures – ideal for quick pool heat up at the start of the season
- Pool heating at altitude
- Higher cooling capacity
- Most efficient models – highest COP

Optional accessories

Remote LED control kit w/10m cable 1005544

The PoolTherm App for our Calorex I-PAC inverter heat pumps is available on Android and iOS. Simply search for 'PoolTherm' in App Store or Google Play and download it today!

Included in the box

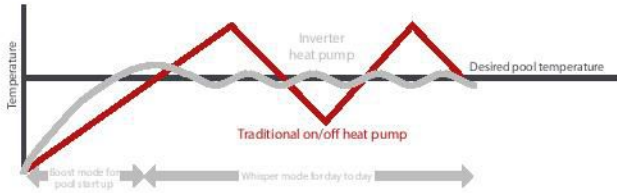**Rubber feet (kit of 4) 1005526**

Drainage kit 1005558
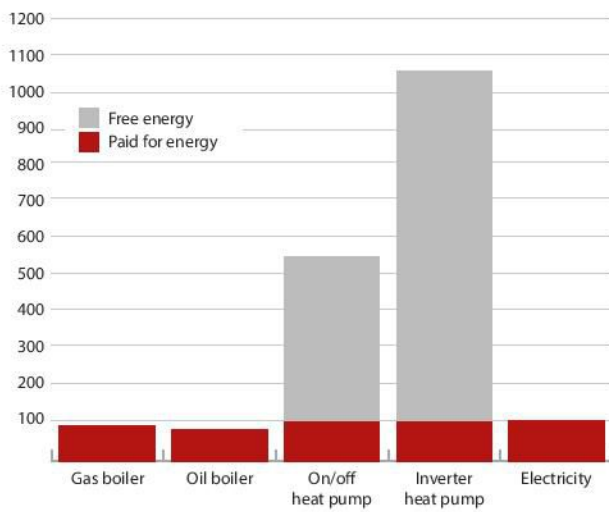

Water union connectors 2 x 1½ 2 x 50mm 1005629

Dantherm CLIMATE SOLUTIONS

CALOREX I-PAC+ 12-16-22-28

CE

Temperature control chart

Inverter heat pump

Desired pool temperature

Traditional on/off heat pump

Boost mode for pool startup

Whisper mode for day to day

Heating method efficiency chart

Free energy
Paid for energy

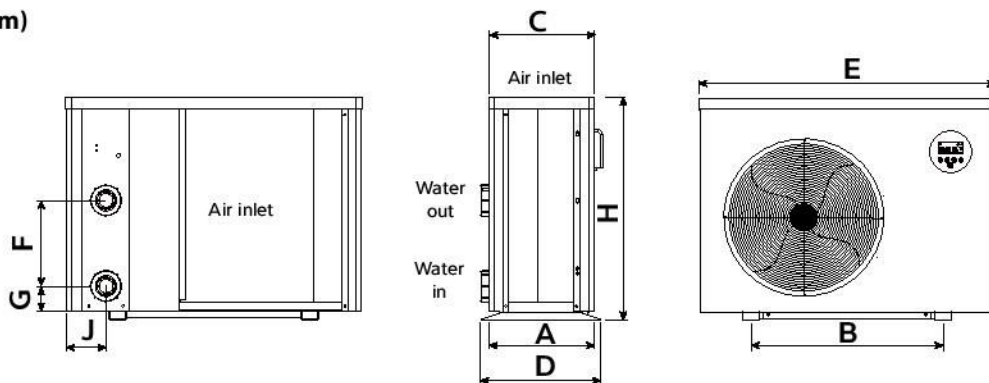Gas boiler | Oil boiler | On/off heat pump | Inverter heat pump | Electricity

Great value, and environmentally conscious heating option, with energy consumption half that of a traditional on/off heat pump, and 1/10 of that for gas or electric pool heating.

Where our heat pump sits on the decibel scale

	dB	Source	
	190	Volcano eruption shockwaves	
	170	Rocket launch from 300ft away	
Threshold of pain	140	Airplane taking off	
Extremely loud	110	Motorcycle revving	
	100	Handheld drill	
	90	Kitchen blender	
Very loud	80	Vacuum cleaner	
Loud	70	Dishwasher	
Moderate to quiet	60	Conversational speech	
	50	Refrigerator	
Faint	40	Computer	
CALOREX INVERTER HEAT PUMPS	30	Whisper	
	20	Rustling leaves	
	10	Breathing	
	0		

Dimensions (mm)

C
Air inlet

Air inlet

F
G
J

Water out
Water in

H
A
D

E
B

Model	A	B	C	D	E	F	G	H	J
I-PAC 12ALY	334	590	318	359	954	340	74	648	107
I-PAC 16ALY	404	590	388	429	954	460	74	755	107
I-PAC 16BLY	404	590	388	429	954	460	74	755	107
I-PAC 22ALY	404	720	388	429	1084	620	74	948	107
I-PAC 22BLY	404	720	388	429	1084	620	74	948	107
I-PAC 28BLY	514	790	498	539	1154	650	74	948	128

Dantherm
CLIMATE SOLUTIONS

CALOREX I-PAC+ 12-16-22-28

CE

Specifications	Units	I-PAC+ 12ALY	I-PAC+ 16ALY	I-PAC+ 16BLY	I-PAC+ 22ALY	I-PAC+ 22BLY	I-PAC+ 28BLY
Air temperature range	°C	-10-43	-10-43	-10-43	-10-43	-10-43	-10-43
Water temperature range	°C	12-40	12-40	12-40	12-40	12-40	12-40
Performance – air 27°C 80% RH, water 27°C							
Heating capacity	kW	15.0	21.0	21.0	27.5	27.5	36.0
COP range		15.0-6.6	14.8-6.4	14.8-6.4	15.0-6.5	15.0-6.8	14.8-6.0
Average COP at 50% speed		10.6	10.3	10.3	10.3	10.3	10.2
Performance – air 15°C 70% RH, water 26°C							
Heating capacity	kW	10.5	14.5	14.5	18.0	18.0	23.9
COP range	kW	7.7-4.6	7.1-4.6	7.5-4.6	7.1-4.6	7.5-4.6	7.5-4.6
Average COP at 50% speed	kW	6.4	6.3	6.3	6.3	6.3	6.3
Performance – air 5°C 70% RH, water 10°C							
Heating capacity	kW	7.5	9.6	9.6	11.9	11.9	16.0
Performance – air -10°C 70% RH, water 23°C							
Heating capacity	kW	4.6	5.9	5.9	7.3	7.3	8.8
Performance – air 35°C 80% RH, water 28°C							
Cooling capacity	kW	6.7	9.5	9.5	11.9	11.9	16.0
Power supply	V/Hz	230/1ph/50	230/1ph/50	400/3ph/50	230/1ph/50	400/3ph/50	400/3ph/50
Rated input power	kW	0.27-2.28	0.41-3.15	0.41-3.15	0.48-3.91	0.48-3.91	0.64-5.20
Maximum input current	A	13.5	17.0	5.8	20.0	7.0	9.5
Water flow	m³/h	5.0-7.0	8.0-10.0	8.0-10.0	10.0-12.0	10.0-12.0	12.0-18.0
Water connection	"/mm	1½/50	1½/50	1½/50	1½/50	1½/50	1½/50
Compressor		Inverter	Inverter	Inverter	Inverter	Inverter	Inverter
Condenser		Titanium	Titanium	Titanium	Titanium	Titanium	Titanium
R32 gas weight/CO_2 equivalent	kg/t	0.9/0.61	1.2/0.81	2.0/1.35	1.2/0.81	2.0/1.35	2.7/1.82
Sound pressure level @ 10m	dB(A)	20.8-24.5	20.4-33.7	20.4-33.7	23.0-34.4	23.0-34.4	22.1-34.2
Product size (w x d x h)	mm	954 x 359 x 648	954 x 429 x 755	954 x 429 x 755	1084 x 429 x 948	1084 x 429 x 948	1154 x 539 x 948
Weight	kg	52	68	68	90	93	120

Dantherm
CLIMATE SOLUTIONS

CALOREX V-PAC 12-16-22

CE

- Average COP 10.7 = 2 x more efficient than on/off heat pumps
- Eco-friendly refrigerant R32 = 675 GWP, (Global Warming Potential)
- Inverter heat pump
- Power ratings from 14 to 24kW
- 9-11 dB(A) sound reduction than on/off heat pump, with 'Whisper Mode'.
- Ideal for confined spaces
- Operates in air temperatures of -5°C to +43°C
- Integrated controller with a user interface
- Function settings for heating, cooling or heat/cool
- Soft start-up
- ABS cabinet

Inverter technology allows for efficient control of the pool temperature, and the V-PAC only uses what energy is needed when it is required. High efficiency with modulating step-less inverter compressor.

Included in the box

Rubber feet (kit of 4)
1005526

Drainage kit
1005558

Water union connectors 2 x 1½ 2 x 50mm 1005629

Dantherm
CLIMATE SOLUTIONS

SMALL INVERTER HEAT PUMPS
CALOREX V-PAC 12-16-22

CE

Dimensions (mm)
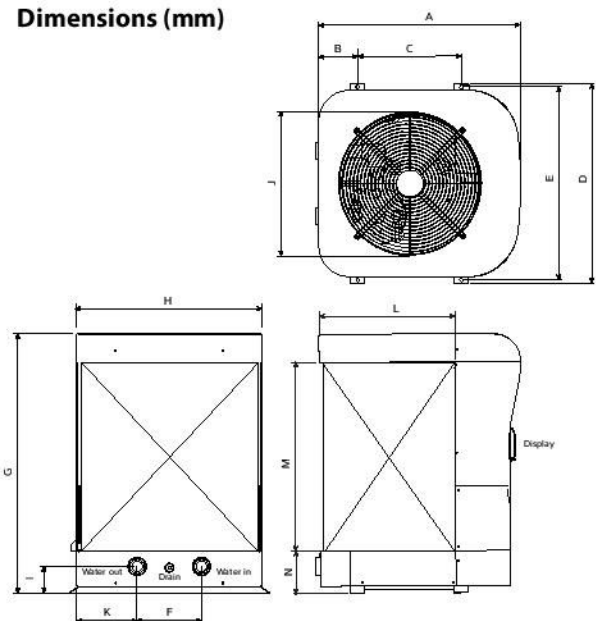
Model	A	B	C	D	E	F	G
V-PAC 12ALX	650	98	362	650	626	220	835
V-PAC 16ALX	650	98	362	650	626	220	835
V-PAC 22ALX	752	138	387	745	721	240	967

Model	H	I	J	K	L	M	N
V-PAC 12ALX	600	92	490	190	430	588	130
V-PAC 16ALX	600	92	490	190	430	588	130
V-PAC 22ALX	695	92	530	228	505	705	157

Specifications	Units	V-PAC 12ALX	V-PAC 16ALX	V-PAC 22ALX
Air temperature range	°C	-5-43	-5-43	-5-43
Water temperature range	°C	8-40	8-40	8-40
Performance – air 27°C 80% RH, water 27°C				
Heating capacity	kW	14.1	18.5	24.4
COP range		13.5-6.28	13.5-6.03	13.5-5.14
Average COP at 50% speed		9.7	9.3	8.8
Performance – air 15°C 70% RH, water 26°C				
Heating capacity	kW	10.6	13.6	17.8
COP range		8.5-5.11	8.4-5.02	6.2-4.14
Average COP at 50% speed		6.5	6.4	4.7
Performance – air 5°C 70% RH, water 10°C				
Heating capacity	kW	6.2	9.0	11.5
Performance – air 35°C 80% RH, water 28°C				
Cooling capacity	kW	6.23	6.7	10.3
Power supply	V/Hz	230/1ph/50	230/1ph/50	230/1ph/50
Rated input power	kW	0.20-2.24	0.23-3.06	0.75-4.75
Maximum input current	A	12.5	15.5	24.5
Water flow	m³/h	5.0	6.5	9.0
Water connection	"/mm	1½/50	1½/50	1½/50
Compressor		Inverter	Inverter	Inverter
Condenser		Titanium	Titanium	Titanium
R32 gas weight/CO$_2$ equivalent	kg/t	0.8/0.54	0.8/0.54	1.7/1.15
Sound pressure level @ 10m	dB(A)	< 29	< 30	< 30
Product size (w x d x h)	mm	650 x 650 x 835	650 x 650 x 835	745 x 752 x 967
Weight	kg	70	80	95

Dantherm CLIMATE SOLUTIONS

CALOREX I-PAC 50-100BLY

CE

Inverter technology allows for efficient control of the pool temperature, and the I-PAC BLY only uses what energy is needed when it is required. High efficiency with modulating step-less inverter compressor giving an average COP of 10.5 (I-PAC 50BLY) and 10 (I-PAC 100BLY).

Temperature control chart

Applications

- Outdoor and indoor pools
- Hotel and spa pools
- Health clubs
- Wellness centres
- Therapy pools

- Average COP 10 = 2 x more efficient than on/off heat pumps
- Inverter heat pump
- Titanium heat exchanger
- Fully automatic operation
- Comprehensive circuit protection
- Quiet efficient axial fans
- Weather proof construction
- Multifunction operation functions can be set to heating, heat/cool and cooling
- 10-12 dB(A) sound reduction than on/off heat pump with 'Whisper Mode'
- Soft start-up
- Aluminium alloy
- 50/60Hz compatible
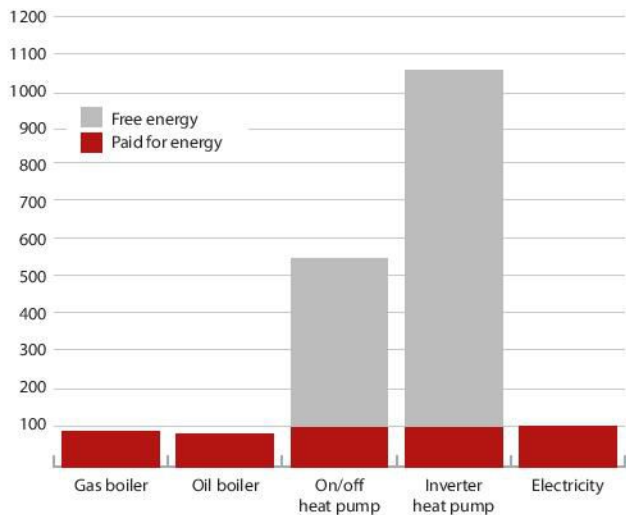- BMS Connectivity
- Built-in Wi-Fi module

The PoolTherm App for our Calorex I-PAC inverter heat pumps is available on Android and iOS. Simply search for 'PoolTherm' in App Store or Google Play and download it today!

Dantherm
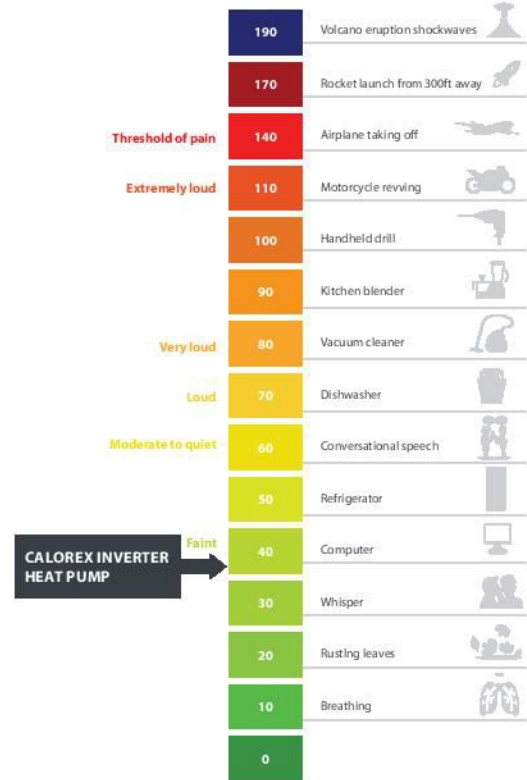CLIMATE SOLUTIONS

CALOREX I-PAC 50-100BLY

CE

Heating method efficiency chart

Great value, and environmentally conscious heating option, with energy consumption half that of a traditional on/off heat pump, and 1/10 of that for gas or electric pool heating.

Where our heat pump sits on the decibel scale

Specifications	Units	I-PAC 50BLY	I-PAC 100BLY
Air temperature range	°C	-7-43	-7-43
Performance – air 27°C 80% RH, water 27°C			
Heating capacity	kW	60.2	115.0
Average COP @50% speed		10.5	10.0
Performance – air 15°C 70% RH, water 26°C			
Heating capacity	kW	40.1	80.8
Average COP @50% speed		7.0	6.7
Performance – air 5°C 70% RH, water 26°C			
Heating capacity	kW	27	55
Average COP @50% speed		4.8	4.8
Performance – air 35°C 80% RH, water 28°C			
Cooling capacity	kW	26.8	53.5
Power supply	V/Hz	400/3ph/50-60	400/3ph/50-60
Rated input power	kW	2.10-8.18	4.25-17.0
Rated current input	A	3.05-11.90	6.16-24.7
Max. input current	A	19	38
Water flow	m³/h	20-25	40-50
Water Pressure Drop	kPa.	50 is 13	100 is 25
Water connection	mm	75	110
Compressor		Inverter	Inverter
Heat exchanger		Titanium	Titanium
R410A gas weight/CO_2 equivalent	kg/t	8.0/16.70	16/33.41
Sound pressure level @ 1m	dB(A)	53-61	55-64
Sound pressure level @ 10m	dB(A)	33-41	35-44
Product size (w x d x h)	mm	1000 x 1075 x 1260	2100 x 1090 x 1280
Weight	kg	230	448

Dantherm CLIMATE SOLUTIONS
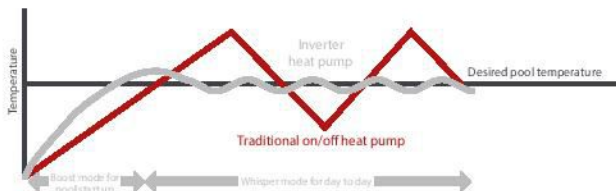
CALOREX I-PAC 50-100BHC

CE

Inverter technology allows for efficient control of the pool temperature, and the I-PAC BHC only uses what energy is needed when it is required. High efficiency with modulating step-less inverter compressor giving an average COP of 10.5 (I-PAC 50BHC) and 10.0 (I-PAC 100BHC).

Temperature control chart

Applications

- Outdoor and indoor pools (Gulf and SE Asia)
- Hotel and spa pools
- Health clubs
- Wellness centres
- Therapy pools

- Average COP 10 = 2 x more efficient than on/off heat pumps
- Inverter heat pump
- Titanium heat exchanger
- Fully automatic operation
- Comprehensive circuit protection
- Quiet efficient axial fans
- Weather proof construction
- Multifunction operation functions can be set to heating, heat/cool and cooling
- 10-12 dB(A) sound reduction than on/off heat pump with 'Whisper Mode'
- 'Enhanced Vapour Injection' technology for efficient operation, even on the hottest summer days
- Soft start-up
- Aluminium alloy
- Optimised for Gulf climate
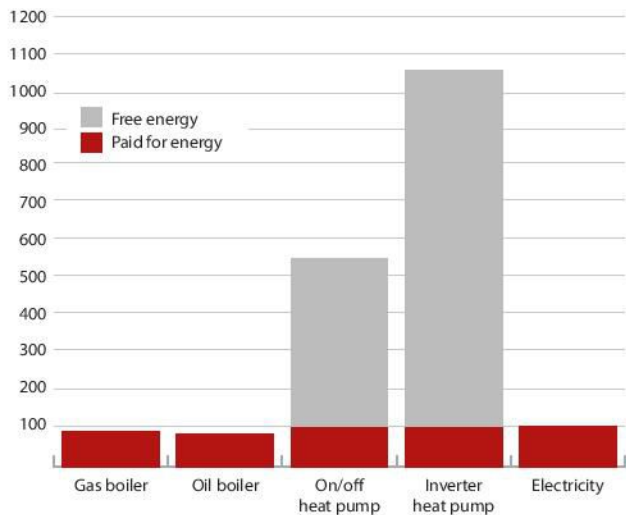- BMS Connectivity
- Built-in Wi-Fi module

The PoolTherm App for our Calorex I-PAC inverter heat pumps is available on Android and iOS. Simply search for 'PoolTherm' in App Store or Google Play and download it today!

Dantherm
CLIMATE SOLUTIONS

INVERTER HEAT PUMPS
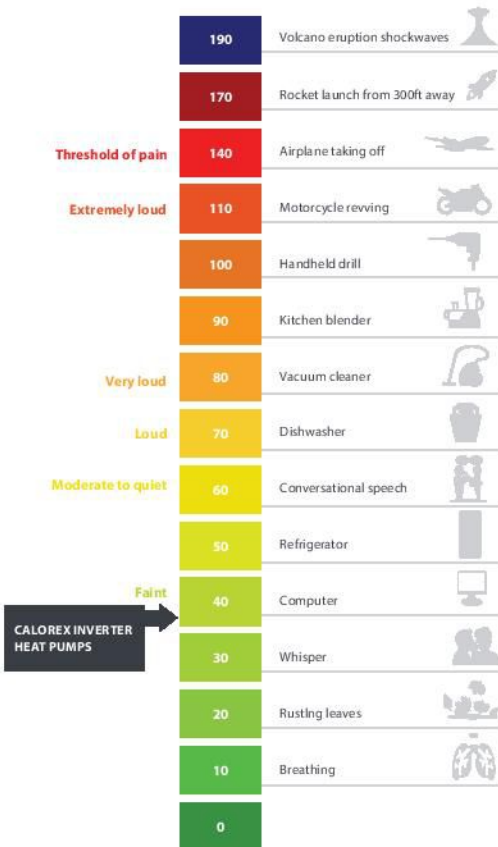# CALOREX I-PAC 50-100BHC

$C\epsilon$

Heating method efficiency chart

Great value, and environmentally conscious heating option, with energy consumption half that of a traditional on/off heat pump, and 1/10 of that for gas or electric pool heating.

Where our heat pump sits on the decibel scale

	dB	Source
	190	Volcano eruption shockwaves
	170	Rocket launch from 300ft away
Threshold of pain	140	Airplane taking off
Extremely loud	110	Motorcycle revving
	100	Handheld drill
	90	Kitchen blender
Very loud	80	Vacuum cleaner
Loud	70	Dishwasher
Moderate to quiet	60	Conversational speech
	50	Refrigerator
Faint	40	Computer
	30	Whisper
	20	Rustling leaves
	10	Breathing
	0	

CALOREX INVERTER HEAT PUMPS

Specifications	Units	I-PAC 50BHC	I-PAC 100BHC
Air temperature range	°C	0-55	0-55
Performance – air 27°C 80% RH, water 27°C			
Heating capacity	kW	60.2	115.0
Average COP @ 50% speed		10.5	10.0
Performance – air 15°C 70% RH, water 26°C			
Heating capacity	kW	40.1	80.8
Average COP @ 50% speed		7.0	7.0
Performance – air 45°C 50% RH, water 32°C			
Cooling capacity	kW	25.1	50.3
Power supply	V/Hz	400/3ph/50	400/3ph/50
Rated input power	kW	2.26-8.90	4.68-17.5
Rated current input	A	3.27-12.9	6.78-25.3
Max. input current	A	19	38
Water flow	m³/h	20-25	40-50
Water Pressure Drop	kPa.	50 is 13	100 is 25
Water connection	mm	75	110
Compressor		Inverter	Inverter
Heat exchanger		Titanium	Titanium
R410A gas weight/CO₂ equivalent	kg/t	8.0/16.70	16.0/33.41
Sound pressure level @ 1m	dB(A)	53-61	55-64
Sound pressure level @ 10m	dB(A)	33-41	35-44
Product size (l x w x h)	mm	1020 x 1110 x 1260	2100 x 1090 x 1280
Weight	kg	247	453

Dantherm CLIMATE SOLUTIONS