

## 2023 **HVAC SOLUTIONS**

FOR POOLS, LEISURE CENTRES, BUILDINGS, AGRICULTURE AND STORAGE









#### **About the Dantherm Group**

Dantherm Group is a European leader in portable and installed climate control solutions for a wide range of industries and uses. Based on the heritage of the variety of brands we own, our climate control experts build and manufacture hundreds of thousands of exceptional heating, cooling, dehumidification, air cleaning and ventilation units in our own factories in Europe every year. All of them are designed to create healthy and comfortable climate surroundings in a sustainable, energy-efficient and cost-effective way.

#### Why partner with us

- European design quality
- Experts in climate control
- Extensive range of solutions

## **INDEX**

Product	Name	Description	Applications	Page
	SWIMMING POOL HEAT PUMPS	Enjoy energy efficient all-year-round heating with an inverter swimming pool heat pump. With high heating performance at lower temperatures and quiet operation, our range of inverter heat pumps are suitable for residential or commercial swimming pools.	<ul> <li>Private pools</li> <li>Spas, therapy &amp; wellness pools</li> <li>Plunge pools</li> <li>Hotels &amp; health clubs</li> <li>Holiday parks &amp; campsites</li> <li>Water parks</li> </ul>	6
	SWIMMING POOL DEHUMIDIFIERS	Swimming pool dehumidifiers are available as wall-mounted or floor-standing domestic units, through to high capacity and commercial ducted swimming pool dehumidifiers for any size pool or environment – offering complete humidity climate control solutions.	<ul> <li>Private pools</li> <li>Spas, therapy &amp; wellness pools</li> <li>Plunge pools</li> <li>Hotels &amp; health clubs</li> <li>Holiday parks &amp; campsites</li> </ul>	24
	SWIMMING POOL AIR HANDLING UNITS	We supply swimming pool air handling units that are suitable for all sizes of pool, including commercial or public indoor swimming pools. The units provide effective climate control to perfectly manage temperature and humidity, supplying clean, fresh and comforting air in the pool room or area.	<ul> <li>Public pools</li> <li>Leisure centres</li> <li>Schools</li> <li>Hotels &amp; health clubs</li> <li>Holiday parks &amp; campsites</li> </ul>	34
	CONDENSE DEHUMIDIFIERS	Condensation dehumidifiers are ideal for warehousing and storage, substations and data centres, as well as in building and water damage drying, or any industrial and commercial application including water management, and protecting and preserving the value of assets.	<ul> <li>Drying rooms</li> <li>Preservation</li> <li>Museums, archives &amp; galleries</li> <li>Data centres &amp; electronics</li> <li>Warehousing &amp; storage</li> </ul>	39

## **HEATING AND COOLING SOLUTIONS FOR:**

## PRIVATE AND DOMESTIC SWIMMING POOLS

QUICK GUIDE	C-PAC+ HEAT PUMP	I-PAC HEAT PUMP	I-PAC+ HEAT PUMP	V-PAC HEAT PUMP
POOL TYPE				
OUTDOOR	•	•	•	•
INDOOR	•	•	•	•
ABOVE GROUND	•	•	•	•
OPERATION				
HEATING	•	•	•	•
COOLING	•	•	•	•
INVERTER		•	•	•
APPLICATIONS				
PRIVATE POOLS	•	•	•	•
SPAS, THERAPY & WELLNESS	•	•	•	•
PLUNGE POOLS	•	•	•	•
HOTELS, HEALTH CLUBS & SPORT ACADEMIES	•	•	•	•

## **HEATING AND COOLING SOLUTIONS FOR:**

## PUBLIC AND COMMERCIAL SWIMMING POOLS

QUICK (	GUIDE	I-PAC BHC*	I-PAC BLY		
POOL TYPE					
	OUTDOOR	•	•		
	INDOOR	•	•		
OPERATION					
	HEATING	•	•		
	COOLING	•	•		
rotar	ALL YEAR HEATING		•		
APPLICATIO	NS				
	HOTELS, HEALTH CLUBS & SPORT ACADEMIES	•	•		
	HOLIDAY PARKS & CAMPSITES	•	•		
	WATER PARKS	•	•		
1997 :	DESIGNED SPECIFICALLY FOR THE GULF CLIMATE	•	•		

#### WHY CHOOSE OUR SWIMMING POOL PRODUCTS?



## CHOOSING THE BEST SOLUTION

We can offer two proven technologies for environmental control – fresh air dehumidification with heat recovery and heat pump dehumidification with air to air and air to water heat recovery.



## POOL HEAT PUMP TECHNOLOGY

A sustainable way to dynamically heat your swimming pool saving both energy and operating costs.



## HEALTHY SWIMMING ENVIRONMENTS

Our dehumidifiers and AHUs are designed to economically provide the environmental comfort and moisture related structural protection necessary for a pool.



## WHOLE BUILDING SOLUTIONS

Not only do we have pool environmental control units but we can provide ventilation for all other areas of your leisure facility including gyms, changing rooms and foyers.



## REDUCE OPERATING COSTS

We focus on developing energy saving units.



## CREATING THE RIGHT POOL TEMPERATURE

We have products that heat or cool the pool depending on the outside temperature to create the perfect swimming environment.



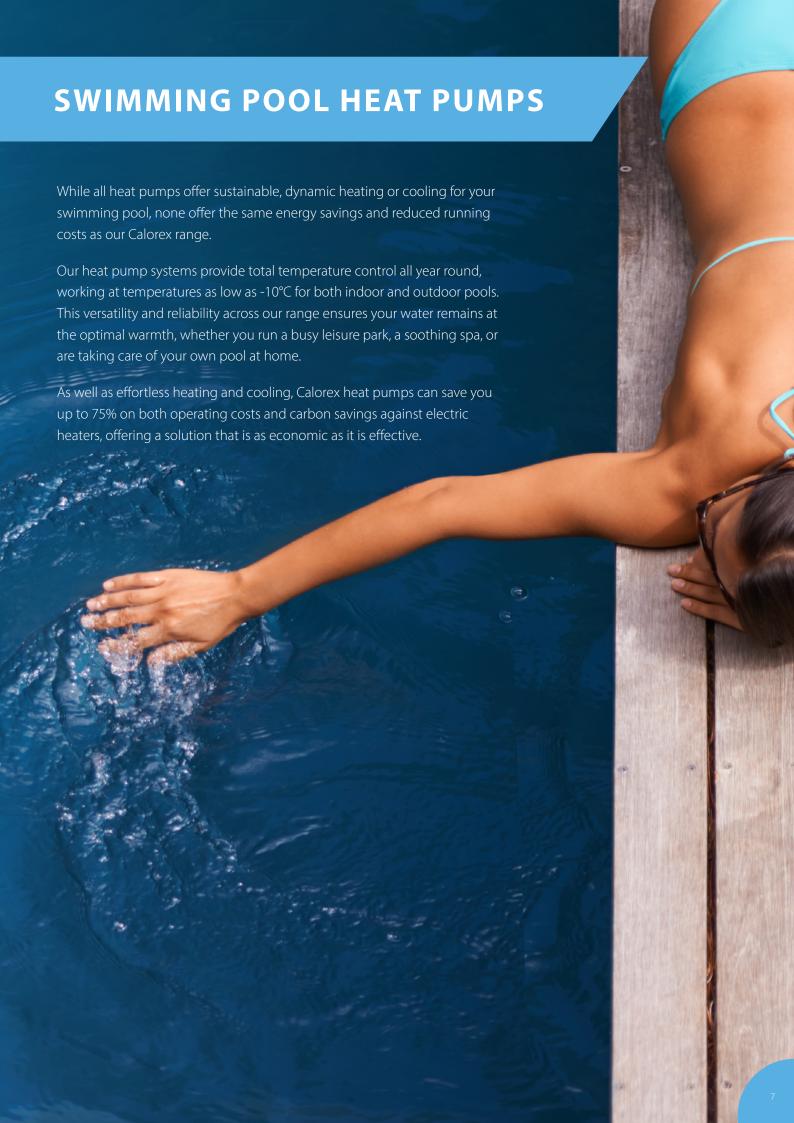
## PROTECTING THE ENVIRONMENT

Our development teams focus on reducing the carbon foot print by making our products as environmentally friendly as possible.



## TECHNICAL SUPPORT AND AFTER-SALES CARE

Network of service agents and accredited technicians available from Dantherm Group Denmark, UK and Italy and through local distributors.





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<sub>2</sub> 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

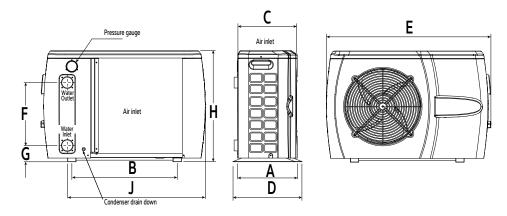


Water union connectors 2 x 1½ 2 x 50mm 1005629

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



#### Dimensions (mm)



Model	А	В	C	D	Е	F	G	Н	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	$^{\circ}$ C	-10-43	-10-43	-10-43	-10-43	-10-43
Water temperature range	$^{\circ}$ 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	Α	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 ( $w \times d \times h$ )	mm	933 x 401 x 657	933 x 401 x 657	1130×490×709	1133×490×709	1299×520×809
Weight	kg	50	59	71	93	117



i



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**





- 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



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

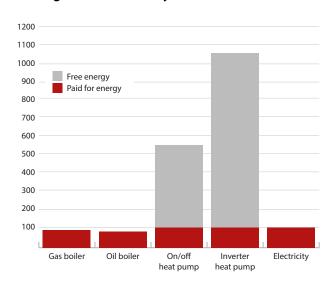


Water union connectors 2 x 1½ 2 x 50mm 1005629



Remote LED control kit w/10m cable 1005544

#### **Heating method efficiency chart**

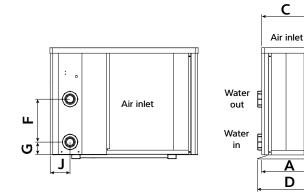


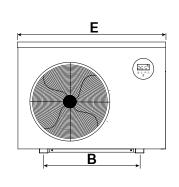
Great value, and environmentally conscious heating option, with energy consumption half that of a traditional on/off heat pump, and 1/10 of that for gas or electric pool heating.

#### Where our heat pump sits on the decibel scale



#### **Dimensions (mm)**





Model	A	В	С	D	E	F	G	Н	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

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

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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, w	ater 27°0	2								
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, wa	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, v	vater 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	Α	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 <sub>2</sub> 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					

#### SMALL INVERTER HEAT PUMPS

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





#### **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



- $COP > 10 = 2 \times more efficient than on/off heat pumps$
- 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

#### **Optional accessories**





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

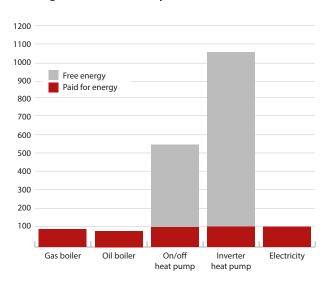
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## CALOREX I-PAC+ 12-16-22-28

#### **Temperature control chart**

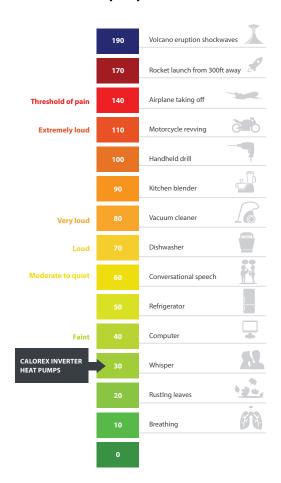
# Inverter heat pump Desired pool temperature Traditional on/off heat pump Boost mode for pool start up Whisper mode for day to day

#### **Heating method efficiency chart**

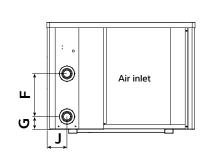


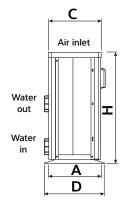
Great value, and environmentally conscious heating option, with energy consumption half that of a traditional on/off heat pump, and 1/10 of that for gas or electric pool heating.

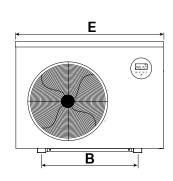
#### Where our heat pump sits on the decibel scale



#### Dimensions (mm)







Model	А	В	C	D	E	F	G	Н	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

## SMALL INVERTER HEAT PUMPS CALOREX I-PAC+ 12-16-22-28



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	l, 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	l, 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,	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% RI	H, wate	r 23°C								
Heating capacity	kW	4.6	5.9	5.9	7.3	7.3	8.8			
Performance – air 35°C 80% Rh	l, wate	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	Α	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/CO₂ 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			





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.



- 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

#### Included in the box



Rubber feet (kit of 4) 1005526

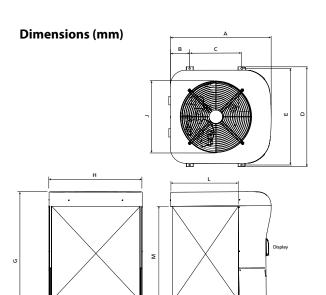


Drainage kit 1005558



Water union connectors 2 x 1½ 2 x 50mm 1005629

## CALOREX V-PAC 12-16-22



Model	А	В	С	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	н		J	K	L	М	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

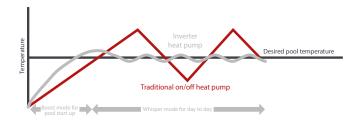
Specifications	Units	V-PAC 12ALX	V-PAC 16ALX	V-PAC 22ALX				
Air temperature range	°C	-5-43	-5-43	-5-43				
Water temperature range	°C	8-40	8-40	8-40				
Performance – air 27°C 80% RH, water 27°C								
Heating capacity	kW	14.1	18.5	24.4				
COP range		13.5-6.28	13.5-6.03	13.5-5.14				
Average COP at 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	Α	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/CO₂ 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				





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

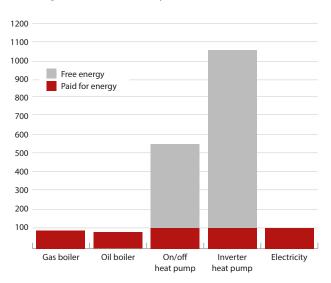


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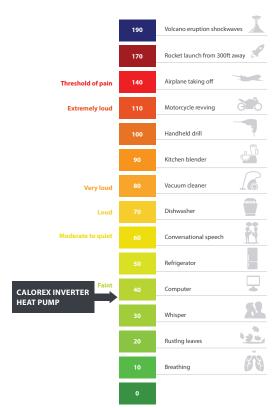
## INVERTER HEAT PUMPS CALOREX I-PAC 50-100BLY

#### **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	Α	3.05-11.90	6.16-24.7
Max. input current	Α	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	16/33.41
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





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



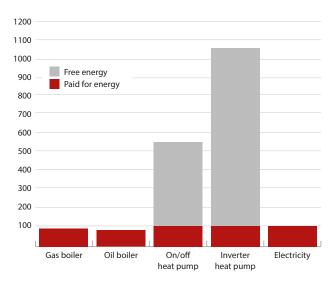
The PoolTherm App for our Calorex I-PAC inverter heat pumps is available on Android and iOS. Simply search for 'PoolTherm' in App Store or Google Play and download it today!

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## CALOREX I-PAC 50-100BHC

#### **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 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	Α	3.27-12.9	6.78-25.3
Max. input current	Α	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



## SWIMMING POOL DEHUMIDIFIERS

When moisture is left unchallenged, this can present a major problem for an indoor pool.

Not only does it create an uncomfortable atmosphere for swimmers and bathers, but the growth of mould is encouraged and structural damage can leave your pool area looking less than luxurious. Our pool dehumidifiers physically remove moisture from the air to ensure the environment stays controlled and your home pool projects are protected.



## **DEHUMIDIFICATION SOLUTIONS FOR:**

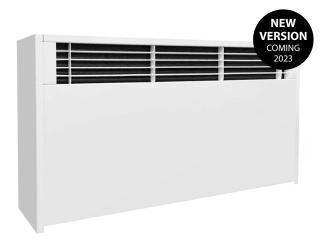
## PRIVATE AND COMMERCIAL SWIMMING POOLS

QUICK (	GUIDE	DH 30-60 MTW	DH 75-110AX	VARIHEAT SYSTEMS
POOL TYPE				
	INDOOR	•	•	•
INSTALLATIO	ON			
	WALL-MOUNTED	•		
11-15	THROUGH-THE-WALL	•	•	
	FLOOR-STANDING		•	
	DUCTED			•
APPLICATIO	NS			
	PRIVATE POOLS	•	•	•
	SPA & THERAPY	•	•	•
	HOLIDAY PARKS & CAMPSITES	•	•	•
	HOTELS, SCHOOLS & HEALTH CLUBS	•	•	•

## WALL-MOUNTED SWIMMING POOL DEHUMIDIFIERS

## CALOREX DH 30-60 MTW



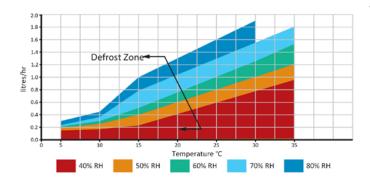


**DH 30-60 MTW** 

The compact DH 30 MTW and 60 MTW are high performance, low cost wall- mounted dehumidifiers with optional integrated air heating. The units have been designed for small swimming pools or spas and stand out for their ability to maintain a comfortable humidity, minimise condensation and keep heating costs low.

#### Performance data

#### **DH 30 MTW**

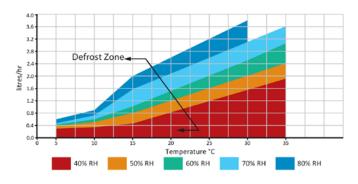


- High moisture extraction for low power consumption
- Zero ozone depleting refrigerant
- Integral humidistat
- Polyester coated evaporator and condense
- Hot gas defrost for low temperature operation
- Quiet centrifugal fans
- Many options for flexible installation
- Remote humidistat and on/off function
- Self contained with fully automatic operation

#### **Options**

- Through-the-wall version with optional water heater
- Floor stand kit
- Electric heater

#### DH 60 MTW





## WALL-MOUNTED SWIMMING POOL DEHUMIDIFIERS CALOREX DH 30-60 MTW



Specifications	Units	DH 30AX-MTW	DH 60AX-MTW
Operating temperature range	°C	0-35	0-35
Dehumidification @ 30°C/60% RH	l/24h	30	60
Heat recovered to air @ 30°C/60% RH	kW	1.9	3.5
Air flow	m³/h	490	720
Sound pressure level @ 3m	dB(A)	52	54
Refrigerant		R407C	R407C
R407C gas weight/CO <sub>2</sub> equivalent	kg/t	0.5/0.89	0.8/1.42
Power supply	V/Hz	230/1ph/50	230/1ph/50
Dehumidifier power input	kW	0.75	1.2
FLA	А	4.4	7.5
Maximum supply fuse	А	10	13
LRA (compressor start)	А	15.8	30
Heater type		Optional Electric	Optional Electric
Heater output	kW	2.0	4.0
Product size (w x d x h)	mm	782 x 270 x 648	1247 x 270 x 648
Weight	kg	40	60
Condensate drain size, ID (flexible plastic hose)	mm	16	16



#### FLOOR-STANDING SWIMMING POOL DEHUMIDIFIERS

## CALOREX DH 75-110AX





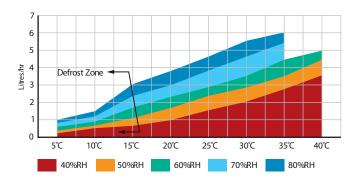
DH 75-110AX are floor-standing high performance and high capacity dehumidifiers. With high moisture extraction for low energy use, as well as being corrosion free and easy to clean, they are ideal for keeping your swimming pool environment healthy and the humidity under control. Options are also available for additional air heating, and through-the-wall installation that can be situated adjacent to the pool hall.



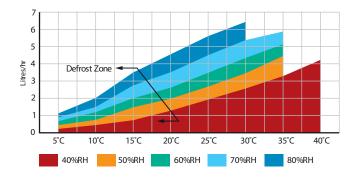
- High moisture extraction for low power consumption
- Corrosion free, easy to clean aluminium air grille with easy clean air filter
- Low internal operating pressures = long useful life
- Adjustable air outlet
- Quiet centrifugal fans, two speeds
- Hot gas defrost (allows operation to 5°C air temperature)
- Remote humidistat and on/off function

#### **Performance data**

#### **DH 75**



#### **DH 110**



#### **Options**

- Through-the-wall version
- LPHW air heater complete with 3 way valve and 12V thermostat interlock
- 400V-3ph option for DH 110

Each Calorex unit includes an adjustable humidistat controlling relative humidity (RH) in the ideal range of 55% – 65%. With RH under control, condensation can be minimised by selecting the most appropriate installation from the schematics shown on the next page. Note: vulnerable areas such as windows, roof lights or other cold bridges may form condensation at low external air temperatures unless dry air is blown directly onto them.

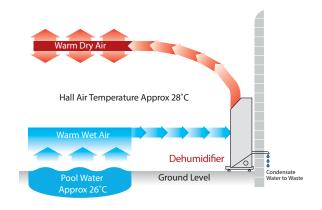
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## FLOOR-STANDING SWIMMING POOL DEHUMIDIFIERS CALOREX DH 75-110AX

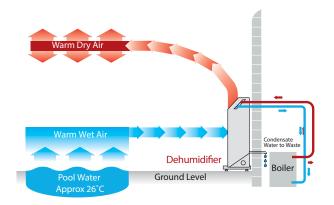


#### **INSTALLATION OPTIONS**

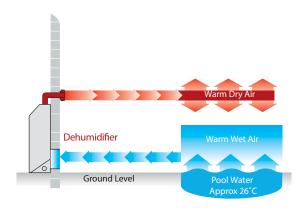
#### Floor-standing air flow



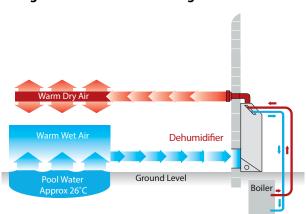
#### Floor-standing with air heating



#### Through-the-wall



#### Through-the-wall with air heating



Specifications	Units	DH 75AX	DH 110AX
Operating temperature range	°C	5-35	5-35
Dehumidification @ 30°C/60% RH	l/h	3.6	4.5
Heat recovered to air @ 30°C/60% RH	kW	4.0	5.2
Air flow	m³/h	1,180	1,180
External static pressure	Pa	0	0
Sound pressure level @ 3m	dB(A)	53	53
R407C gas weight/CO2 equivalent	kg/t	2/3.55	2/3.55
Power supply	V/Hz	230/1ph/50	230/1ph/50
Nominal power consumption	kW	1.5	2.1
FLA	Α	9.5	12
Maximum supply fuse	Α	13	20
LRA (compressor start)	Α	55	66
Heater type		Optional LPHW	Optional LPHW
Heat output @ 80°C flow	kW	8.9	8.9
Flow rate	l/min	9.6	9.6
Product size (w x d x h)	mm	1520 x 385 x 796	1520 x 385 x 796
Weight	kg	143	144
Condensate drain size (brass compression)	mm	15	15



#### DUCTED SWIMMING POOL DEHUMIDIFIERS

## CALOREX VARIHEAT AA/AW 600-900-1200-1500 € C€







**AW 1200** 

The Variheat range are sophisticated air handling units incorporating heat pump dehumidification technology. With dynamic heat recovery using a heat pump, the Variheat is the essential choice for a domestic or light commercial indoor swimming pool. Over 3000 configurations offer the ultimate flexibility for tight plant room spaces. This range is purpose designed for swimming pool environmental control, providing the necessary comfort, moisture related structural protection and economical operation.



Variheat touchscreen controls



- Pool hall dehumidification
- Dynamic heat pump heat recovery to pool and air
- Constant flow EC fan (models 600, 900, 1200)
- Speed controllable EC fan (model 1500)
- PLC control with 3.5" touchscreen user interface
- Remote monitoring/control

#### AA+LPHW models add:

Integral LPHW heat exchanger for air heating

#### AW models add:

- Dynamic heat pump heat recovery to pool and air
- Integral LPHW heat exchangers for pool and air

#### **Options**

- Fresh air module
- Upgraded LPHW heat exchanger for air
- Electric resistance air heaters (6/12/18kW)

#### **Electrical heater option notes**

- In lieu of LPHW heat exchangers
- 6kW or 12kW is available for 600 and 900 models
- 12kW or 18kW is available for 1200 and 1500 models

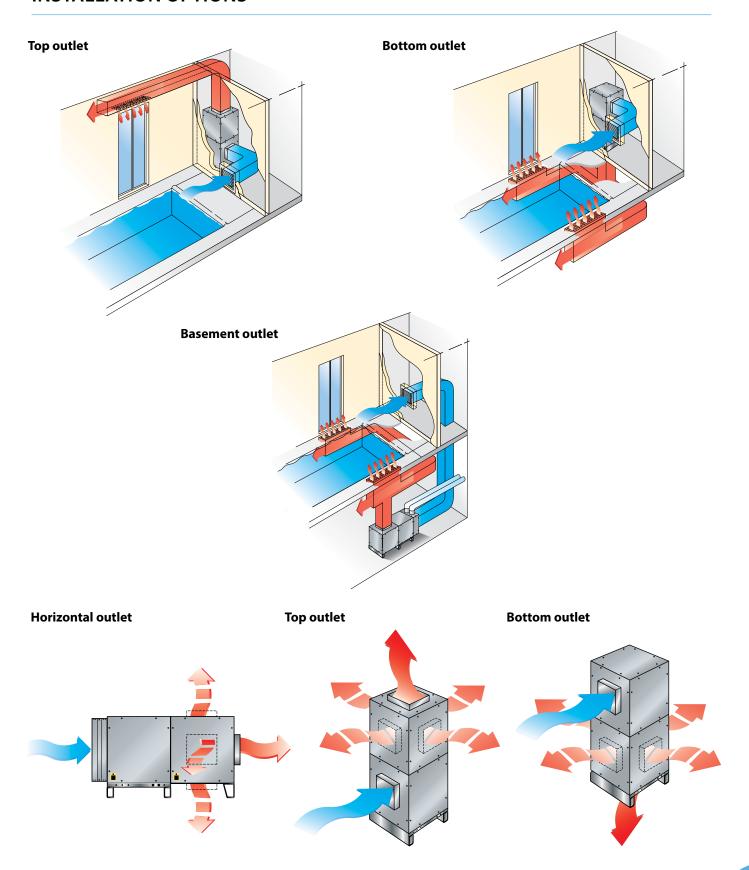
The Variheat range are sophisticated air handling units incorporating heat pump dehumidification technology. With dynamic heat recovery using a heat pump, the Variheat is the essential choice for a domestic or light commercial indoor swimming pool.

#### DUCTED SWIMMING POOL DEHUMIDIFIERS

## CALOREX VARIHEAT AA/AW 600-900-1200-1500 € €



#### **INSTALLATION OPTIONS**



#### DUCTED SWIMMING POOL DEHUMIDIFIERS

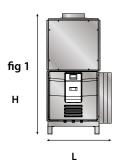
## CALOREX VARIHEAT AA/AW 600-900-1200-1500 € €

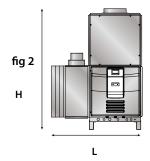


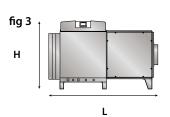


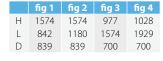
#### **CONFIGURATIONS**

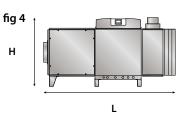
#### Variheat 600/900



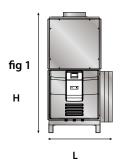


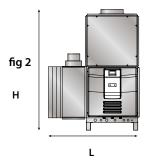


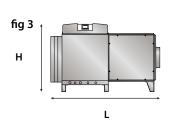


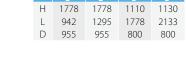


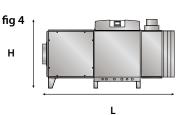
#### Variheat 1200/1500











Example configurations are shown but there are over 3000 configurations available offering the ultimate flexibility for tight plant room spaces. This range is purpose designed for swimming pool environmental control, providing the necessary comfort, moisture related structural protection and economical operation.

Specifications	Units	AW 600	AA 600	AW 900	AA 900	AW 1200	AA 1200	AW 1500	AA 1500
Air flow	m³/h	2,000	2,000	2,500	2,500	3,500	3,500	4,300	4,300
External available static pressure	Pa	330	330	220	220	290	290	350	350
Fresh air flow (option)	m³/h	0-900	0-900	0-900	0-900	0-900	0-900	0-900	0-900
External available static pressure	Pa	100	100	100	100	100	100	100	100
Dehumidification @ 30°C/60% RH	l/h	4.6	4.6	6.5	6.5	8.5	8.5	10.5	10.1
Dehumidification @ 30°C/70% RH	l/h	5.5	5.5	7.8	7.8	10.8	10.8	13.2	13.2
Heat to air									
Net via heat pump (Mode B)	kW	5.1	5.1	7.1	7.1	10.0	10.0	14.0	14.0
Via standard LPHW @ 80°C	kW	11.0	11.0	13.5	13.5	24.0	24.0	28.0	28.0
Max. available (Mode B + standard LPHW)	kW	14.0	14.0	18.6	18.6	30.0	30.0	36.0	36.0
Via upgraded LPHW @ 55°C	kW	9.4	9.4	11.5	11.5	20.4	20.4	23.8	23.8
Max. available (Mode B + upgraded LPHW)	kW	12.7	12.7	16.9	16.9	27.0	27.0	36.8	36.8
Heat to water									
Net via heat pump (Mode A)	kW	5.5	0	7.4	0	10.0	0	12.5	0
Via LPHW @ 80°C	kW	18.0	0	30.0	0	30.0	0	40.0	0
Max. available (Mode A + LPHW)	kW	23.5	0	37.4	0	40.0	0	52.5	0
Refrigerant		R454C	R454C	R454C	R454C	R407C	R407C	R407C	R407C
Gas weight/CO2 equivalent	kg/t	1.8/0.26	1.8/0.26	2.0/0.29	1.85/0.27	2.85/5.06	2.7/4.79	3.0/5.32	2.65/4.70
Nominal power consumed	kW	2.1	2.1	2.8	2.8	2.9/5.14	2.9/5.14	3.0/5.32	3.0/5.32

AW denotes heat recovery to air/water and LPHW heaters for air/water AA denotes heat recovery to air and optional LPHW heater for air only

## **ENVIRONMENTAL CONTROL SOLUTIONS FOR:**

PUBLIC AND COMMERCIAL SWIMMING POOLS

QUICK G	UIDE	DELTA SYSTEMS
POOL TYPE		
	INDOOR	
INSTALLATIO	N	
	PLANT ROOM	•
OPERATION		
	HEATING, COOLING, DEHUMIDIFICATION & VENTILATION	
APPLICATION	NS	
	PUBLIC POOLS	•
	HOTELS, SCHOOLS & HEALTH CLUBS	
	HOLIDAY & WATER PARKS	•
	LEISURE CENTRES	•

## CALOREX DELTA 2-4-6-8-10-12-14-16





The Delta range are sophisticated air handling units incorporating hybrid heat pump and fresh air dehumidification technology. With dynamic heat recovery to swimming pool water and air using a heat pump, the Delta is the ultimate solution for a commercial or public indoor swimming pool.



- Dynamic heat pump heat recovery to pool and air
- Self-regulating fresh air control with heat recovery
- Automatic control of exhaust air volume to match pool usage
- Free-cooling (Delta 2)
- Free-cooling and heat pump air cooling (Delta 4-16)
- Integral LPHW heat exchangers for pool and air
- Speed controllable EC/inverter fans in all models
- PLC control with 5.7" touchscreen user interface
- Remote monitoring/control

#### Remote monitoring/control

As standard the following remote connectivity is available:

- Screen mirroring to Android/iOS mobile devices using third-party app
- Screen mirroring to web browser with ActiveX
- BMS interfaces for Modbus, BACnet IP and BACnet MS/TP
- Wired remote control interfaces



Delta touchscreen controls

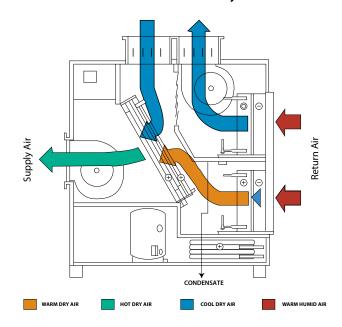


## CALOREX DELTA 2-4-6-8-10-12-14-16



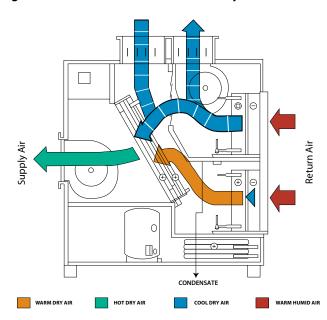
#### HOW THE AIR FLOWS THROUGH THE DELTA

#### Full dehumidification and heat recovery



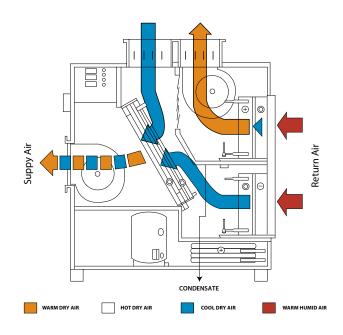
Delta operating on maximum dehumidification of pool air with full heat recovery to pool water and air. Available energy is removed from exhaust air stream. Supplementary heat, if required, supplied by LPHW (water or air).

#### Light dehumidification and heat recovery



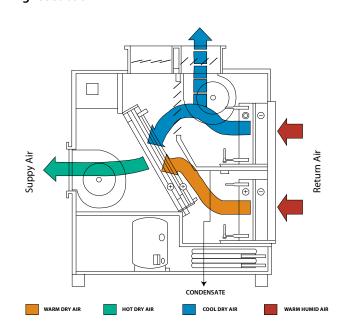
Delta operating on light dehumidification with full heat recovery and reduced fresh air stream – control system automatically selects correct operating mode and damper position. LPHW heat available when required.

#### Air-conditioning



Delta models 4 and above provide an air conditioning facility to minimise the effects of solar gain from larger glazed areas or very high usage. Automatic damper and mode control.

#### Night set back



Air temperature set back control is incorporated as standard in all Delta units and controlled by a time clock. Pool hall air is dropped to a lower temperature for maximum economy. Air recirculation is maintained, dampers allow low fresh air flow.



## CALOREX DELTA 2-4-6-8-10-12-14-16



Specifications	Units	DT 2	DT 4	DT 6	DT 8	DT 10	DT 12	DT 14	DT 16
Nominal recirculation air flow	m³/h	2,600	3,000	4,000	5,000	6,000	7,000	10,000	12,000
Exhaust/fresh air flow (stepped control)	m³/h	130-1,300	150-1,500	200-2,000	250-2,500	300-3,000	350-3,500	670-6,700	850-8,000
Total dehumidification @ 28°C/60% RH by heat pump and maximum fresh air	l/h	10.9	12.5	16.6	20.8	25.0	29.2	56.5	62.4
Heat to air									
Via heat pump (Mode B)	kW	4.9	5.1	6.6	8.0	10.0	12.1	30.0	35.0
Via standard LPHW @ 80°C	kW	22	25	30	35	38	42	85	90
Via upgraded LPHW @ 55°C	kW	19	21	26	30	32	36	72	77
Total Mode B + standard LPHW	kW	26.9	30.1	36.6	43.0	48.0	54.1	115.0	125.0
Heat to pool water									
Via heat pump (Mode A)	kW	5.5	5.8	8.0	10.0	12.5	15.0	35.0	43.0
Via LPHW @ 80°C	kW	23	33	33	33	40	40	65	65
Via LPHW @ 55°C	kW	11	16	16	16	20	20	32	32
Total Mode A + LPHW	kW	28.5	38.8	41.0	43.0	52.5	55.0	100.0	108.0
Cooling duty									
Total	kW	0	-4.2	-5.5	-6.7	-8.4	-10.1	-23.0	-28.0
Sensible	kW	0	-2.9	-3.9	-4.7	-5.9	-7.1	-13.0	-15.0
Nominal power consumed	kW	2.9	2.9	3.4	4.4	5.9	7.4	12.3	17.0
R407C gas weight/CO₂ equivalent	kg/t	3.0/5.32	6.0/10.64	7.8/13.84	7.8/13.84	9.0/15.97	8.0/14.19	22.5/38.14	22.5/38.14
Width	mm	1740	1840	1840	1840	1840	1840	2860	2860
Depth	mm	654	704	704	704	854	854	1126	1126
Height	mm	1685	1970	1970	1970	1970	1970	2120	2120
Weight	kg	310	350	360	370	410	460	954	1020

#### **Options**

- Delta 2-6 single or three phase
- Delta 8-16 three phase only
- Upgraded LPHW heat exchanger for air heating
- Left-hand or right-hand orientation (Delta 4-16)
- Top, side or bottom supply fan outlet
- Front or rear supply fan outlet (Delta 14-16)
- Rear exhaust and fresh air connections (Delta 14-16)
- Connection for RCU (Delta 16)





#### WHY CHOOSE OUR COMMERCIAL PRODUCTS?



# CHOOSING THE BEST SOLUTION

Our wide range of units and operating temperatures ensure there is a system to fit every commercial or industrial need.



# LARGE SCALE INDUSTRIAL DRYING

Refrigerant or adsorption drying solutions for manufacturing, process drying and cold storage.



# REDUCE OPERATING COSTS

We focus on developing energy saving units



# CREATING HEALTHY ENVIRONMENTS

Our wall-mounted and floor-standing dehumidifiers prevent mould and bacteria development and keep stored goods and artefacts dry.



# SUSTAINABLE HEATING SOLUTIONS

Hot water heat pumps provide a sustainable heating solution which, compared to fossil fuel or direct electric systems, will dramatically cut operating costs and carbon emission.



# WORK IN HEALTHY CONDITIONS

Our heaters, dehumidifiers and coolers keep temperature and humidity at a comfortable level.



# PROTECTING THE ENVIRONMENT

Our development teams focus on reducing the carbon foot print by making our products as environmentally friendly as possible.



# USER AND MAINTENANCE FRIENDLY

Our products are easy to install, use and maintain.



#### **DEHUMIDIFICATION SOLUTIONS FOR:**

BUILDINGS, STORAGE, AGRICULTURE, FOOD & BEVERAGE

QUICK GUIDE	DH 15	DH 30-60	DH 75-110AX/BX	DH 150-300-600	DH 334
INSTALLATION					
WALL-MOUNTED	•	•			
THROUGH-THE-WALL	•	•	•		
FLOOR-STANDING	•		•	•	•
DUCTABLE				•	
APPLICATIONS					
DRYING ROOMS	•	•	•	•	
PRESERVATION	•	•	•	•	
MUSEUMS, ARCHIVES & GALLERIES	•	•	•	•	
DATA CENTRES & ELECTRONICS			•	•	
CONFECTIONERY				•	•

#### **DEHUMIDIFICATION SOLUTIONS FOR:**

BUILDINGS, STORAGE, AGRICULTURE, FOOD & BEVERAGE

QUICK GUI	DE	DH 15	DH 30-60	DH 75-110AX/BX	DH 150-300-600	DH 334
INSTALLATION						
WAI	LL-MOUNTED	•	•			
THE	OUGH-THE-WALL	•	•	•		
FLO	or-standing	•		•	•	•
DUG	CTABLE				•	
APPLICATIONS						
AGF	RICULTURE			•	•	
FOO	DD AND BEVERAGE				•	•
	rage & rehousing	•	•		•	•
	RAGES & R STORAGE	•	•	•	•	
PHA SCIE	ARMACEUTICAL & ENTIFIC				•	

# WALL-MOUNTED DEHUMIDIFIERS CALOREX DH 15





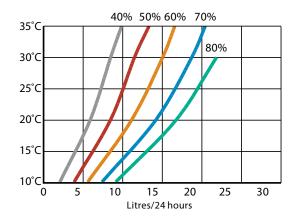
**DH 15** 

The DH 15 wall-mounted dehumidifier has a compact design for installation in small areas, making it an ideal solution for stairwells, corridors and changing rooms. Being fully self contained, with tamper proof controls is perfect for public buildings such as schools, museums and galleries.



- Compact design for installation in small areas
- Self contained with fully automatic operation
- Integral humidistat
- Tamper proof controls
- Epoxy polyester painted zintec steel cabinet
- Hot gas defrost for low temperature operation
- Air filter

#### **Performance data**



#### **Options**

• Through-the-wall version

Specifications	Units	DH 15AX
Operating temperature range	°C	0-35
Dehumidification @ 30°C/60% RH	l/24h	15
Heat recovered to air @ 30°C/60% RH	kW	0.9
Air flow	m³/h	225
Sound pressure level @ 3m	dB(A)	53
R407C gas weight/CO <sub>2</sub> equivalent	kg/t	0.34/0.6
Power supply	V/Hz	230/1ph/50
Nominal power consumption	kW	0.43
FLA	Α	3.8
Maximum supply fuse	Α	10
LRA (compressor start)	Α	18
Product size (w x d x h)	mm	825 x 363 x 320
Weight	kg	33
Condensate drain size, ID (flexible plastic hose)	mm	10

# WALL-MOUNTED DEHUMIDIFIERS CALOREX DH 30



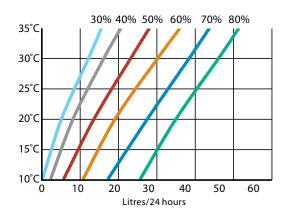


The DH 30 is a high performance, low cost wall-mounted dehumidifier with integrated air heating option available. Designed to treat spaces, such as garages, changing rooms and archives, it maintains a comfortable humidity, minimises condensation and keeps heating costs to a minimum. For drying rooms it is a great compact solution.



- Self contained with fully automatic operation
- Integral humidistat
- Polyester coated evaporator and condenser
- Powder coated galvanised steel cabinet
- Hot gas defrost for low temperature operation
- Quiet centrifugal fans
- Remote humidistat and on/off function

#### Performance data



- Through-the-wall version
- Electric air heater
- Floor stand kit

Specifications	Units	DH 30AX	DH 30AXP
Operating temperature range	°C	0-35	0-35
Dehumidification @ 30°C/60% RH	l/24h	30	30
Heat recovered to air @ 30°C/60% RH	kW	1.9	1.9
Air flow	m³/h	490	490
Sound pressure level @ 3m	dB(A)	52	52
R407C gas weight/CO <sub>2</sub> equivalent	kg/t	0.5/887	0.5/0.9
Power supply	V/Hz	230/1ph/50	230/1ph/50
Dehumidifier power input	kW	0.75	0.75
FLA	А	4.4	12.7
Maximum supply fuse	А	10	20
LRA (compressor start)	А	15.8	15.8
Heater type			Standard Electric
Heater output	kW		2.0
Product size (w x d x h)	mm	782 x 270 x 648	782 x 270 x 648
Weight	kg	40	40
Condensate drain size, ID (flexible plastic hose)	mm	16	16



# WALL-MOUNTED DEHUMIDIFIERS CALOREX DH 60



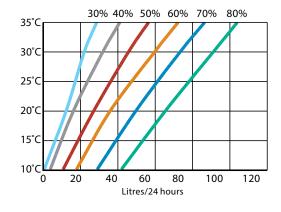


The DH 60 is a high performance, low cost wall-mounted dehumidifier with integrated air heating option available. Designed to treat spaces, such as garages, changing rooms, drying rooms and archives, it maintains a comfortable humidity, minimises condensation and keeps heating costs to a minimum.



- Self contained with fully automatic operation
- Integral humidistat
- Polyester coated evaporator and condenser
- Powder coated galvanised steel cabinet
- Hot gas defrost for low temperature operation
- Quiet centrifugal fans
- Remote humidistat and on/off function

#### **Performance data**



- Through-the-wall version
- Electric air heater
- Floor stand kit

Specifications	Units	DH 60AX	DH 60AXP
Operating temperature range	°C	0-35	0-35
Dehumidification @ 30°C/60% RH	l/24h	60	60
Heat recovered to air @ 30°C/60% RH	kW	3.5	3.5
Air flow	m³/h	720	720
Sound pressure level @ 3m	dB(A)	54	54
R407C gas weight/CO <sub>2</sub> equivalent	kg/t	0.8/1.42	0.8/1.42
Power supply	V/Hz	230/1ph/50	230/1ph/50
Dehumidifier power input	kW	1.2	1.2
FLA	Α	7.5	24.2
Maximum supply fuse	Α	13	32
LRA (compressor start)	А	30	30
Heater type			Standard Electric
Heater output	kW		4.0
Product size ( $w \times d \times h$ )	mm	1247 x 270 x 648	1247 x 270 x 648
Weight	kg	60	60
Condensate drain size, ID (flexible plastic hose)	mm	16	16

#### FLOOR-STANDING DEHUMIDIFIERS

#### CALOREX DH 75-110AX/BX





The DH 75 and DH 110 are floor-standing high capacity dehumidifiers. With high moisture extraction for low energy use, makes them ideal for dehumidifying your space. Options for additional air heating, and through-the-wall installation that can be situated adjacent to the area, makes them ideal for museums, offices, storage, data centres and more!



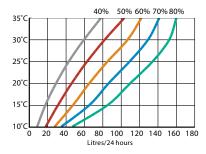
- Self contained with fully automatic operation
- Integral humidistat
- Polyester coated evaporator and condenser
- Stove enamelled aluminium cabinet
- Hot gas defrost for low temperature operation
- Quiet centrifugal fans, two speeds
- Remote humidistat and on/off function

#### Performance data

#### DH 75

# 35°C 40% 50% 60% 70% 80% 70% 25°C 25°C 20°C 10°C 0 20 40 60 80 100 120 140 16 Litres/24 hours

#### DH 110



- Through-the-wall version
- LPHW air heater
- Remote humidistat

Specifications	Units	DH 75AX	DH 110AX	DH 110BX
Operating temperature range	°C	5-35	5-35	5-35
Dehumidification @ 30°C/60% RH	l/24h	86	108	108
Heat recovered to air @ 30°C/60% RH	kW	4.0	5.2	5.2
Air flow	m³/h	1,180	1,180	1,180
Sound pressure level @ 3m	dB(A)	53	53	53
R407C gas weight/CO₂ equivalent	kg/t	2/3.55	2/3.55	2/3.55
Power supply	V/Hz	230/1ph/50	230/1ph/50	400/3ph/50
Nominal power consumption	kW	1.5	2.1	2.0
FLA	Α	9.5	12.0	5.5
Maximum supply fuse	Α	13	20	10
LRA (compressor start)	Α	55	66	30
Heater type		Optional LPHW	Optional LPHW	Optional LPHW
Heater output @ 80°C flow	kW	8.9	8.9	8.9
Flow rate	l/min	9.6	9.6	9.6
Product size (w x d x h)	mm	1520 x 385 x 796	1520 x 385 x 796	1520 x 385 x 796
Weight	kg	143	144	144
Condensate drain size, ID (flexible plastic hose)	mm	15	15	15



# LARGE CAPACITY FLOOR-STANDING DEHUMIDIFIERS CALOREX DH 150





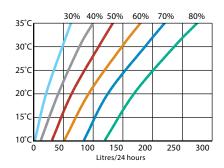
DH 150

The DH 150 high capacity floor-standing dehumidifier is self contained with fully automatic operation. With an integral humidistat, a 'constant flow' fan, and options for heating, you can be confident in your space being controlled to your needs. This makes it ideal for warehousing and storage, sub stations and data centres.



- Self contained with fully automatic operation
- Integral humidistat
- Constant flow fan automatically adjusts to ducting
- Polyester coated evaporator and condenser
- Plastisol coated galvanised steel cabinet
- Hot gas defrost for low temperature operation

#### **Performance data**



- Return air filter
- Top discharge box
- Stainless steel casing

Specifications	Units	DH 150AX	DH 150BX
Operating temperature range	°C	0-35	0-35
Dehumidification @ 30°C/60% RH	l/24h	150	150
Heat recovered to air @ 30°C/60% RH	kW	7.4	7.4
Air flow	m³/h	2,500	2,500
Available static pressure	Pa	0-200	0-200
Sound pressure level @ 3m	dB(A)	58	58
Power supply	V/Hz	230/1ph/50	400/3ph/50
Nominal power consumption	kW	2.3	2.3
FLA (electrical)	Α	21	11.6
Maximum supply fuse	Α	30	16
LRA (compressor start)	Α	86	36
Heater type	Optional	Top box electric	Top box electric
Heater output	kW	9.0	9.0
FLA (heater)	Α	36	12
Maximum fuse size	Α	50	16
R407C gas weight/CO₂ equivalent	kg/t	2.5/4.44	2.75/4.88
Product size (w x d x h)	mm	660 x 660 x 1313	660 x 660 x1313
Weight	kg	130	130
Condensate drain size	inch	¾ BSPM	3/4 BSPM

# LARGE CAPACITY FLOOR-STANDING DEHUMIDIFIERS CALOREX DH 300





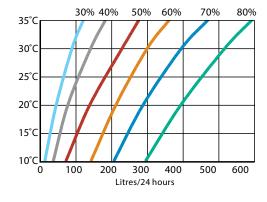
**DH 300BY** 

The DH 300 high capacity floor-standing dehumidifier is self contained with fully automatic operation. With integral humidistat, a 'constant flow' fan, and option for condensate pump, you can be sure in your space being controlled to your demands. This makes it ideal for warehousing and storage, sub stations and data centres.



- Self contained with fully automatic operation
- Integral humidistat
- Polyester coated evaporator and condenser
- Plastisol coated galvanised steel cabinet
- Reverse cycle defrost for very low temperature operation
- Constant flow fan automatically adjusts to ducting

#### **Performance data**



- Return air filter
- Condensate pump

Specifications	Units	DH 300BY
Operating temperature range	°C	-15 - 35
Dehumidification @ 30°C/60% RH	l/24h	300
Heat recovered to air @ 30°C/60% RH	kW	14.7
Air flow	m³/h	5,000
Available static pressure	Pa	0-140
Sound pressure level @ 3m	dB(A)	66
Power supply	V/Hz	400/3ph/50
Nominal power consumption	kW	7.3
FLA	Α	19
Maximum supply fuse	Α	24
LRA (compressor start)	Α	66
R407C gas weight/CO₂ equivalent	kg/t	10.0/17.74
Product size (w x d x h)	mm	980 x 826 x 1475
Weight	kg	220
Condensate drain size, ID (flexible plastic hose)	inch	1½ BSPM



#### LARGE CAPACITY FLOOR-STANDING DEHUMIDIFIERS

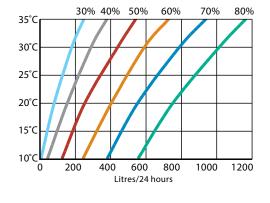
#### CALOREX DH 600





The DH 600 high capacity floor-standing dehumidifier is self contained with fully automatic operation. With integral humidistat, a high pressure fan and option for a condensate pump, you can be sure in your space being controlled to your demands. This makes it ideal for warehousing and storage, sub stations and data centres.

#### **Performance data**





- Self contained with fully automatic operation
- Integral humidistat
- Polyester coated evaporator and condenser
- Plastisol coated galvanised steel cabinet
- Reverse cycle defrost for very low temperature operation

- Return air filter
- Condensate pump
- Top discharge box
- Connections for RCU

Specifications	Units	DH 600BY
Operating temperature range	°C	-15 - +35
Dehumidification @ 30°C/60% RH	l/24h	600
Heat recovered to air @ 30°C/60% RH	kW	29.7
Air flow	m³/h	9,000
Available static pressure	Pa	160
Sound pressure level @ 3m	dB(A)	63
Power supply	V/Hz	400/3ph/50
Nominal power consumption	kW	10
FLA	Α	27
Maximum supply fuse	Α	35
LRA (compressor start)	Α	135
R407C gas weight/CO <sub>2</sub> equivalent	kg/t	14.0/24.84
Product size (w x d x h)	mm	1730 x 1250 x 1600
Weight	kg	497
Condensate drain size, ID (flexible plastic hose)	inch	1½ BSPM

# HIGH TEMPERATURE FLOOR-STANDING PROCESS DRYING CALOREX DH 334



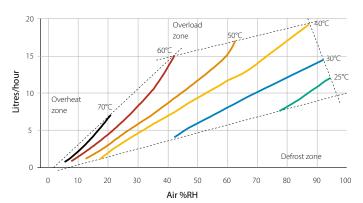


The DH 334 process dryer is excellent for rapid moisture removal, at low cost per litre removed. Using R134a refrigerant it can operate at higher temperatures than standard dryers, and the latent energy is reclaimed to reduce the overall power consumption. The energy consumption is further reduced as drying can take place at lower temperatures than traditional heating methods, lowering risk of heat damage, and improving product quality.



- Rapid moisture removal at lowest cost per litre extracted
- Latent energy reclaimed to reduce power consumption
- Drying at lower temperatures reduces risk of heat damage
- Even drying improves product quality
- Low maintenance

#### **Performance data**



Specifications	Units	DH 334BH
Temperature range	°C	30-70
Dehumidification @ 30°C/60% RH	l/h	408
Heat to air via dehumidification	kW	10
Heat to air via resistance heaters and dehumidification	kW	18.5
Air flow	m³/h	5,800
External static pressure	Pa	0
Sound pressure level @ 3m	dB(A)	69
Power supply	V/Hz	400/3ph/50
Nominal power consumed	kW	14.1
Min. supply capacity	Α	29
Max. supply fuse	Α	35
Heater rating	kW	9
Heater FLA	Α	12
Compressor LRA	Α	72
R134a gas weight/CO₂ equivalent	kg/t	6.0/8.58
Product size (w x d x h)	mm	985 x 700 x 1476
Weight	kg	170



#### **GLOSSARY**

#### **Model identification syntax**

For example

- AW600A-SF01-E
- AW = type of heat pump or range
  - 600 = size
  - A = power supply
  - -SF01 = physical configuration
  - -E = factory fitted option

#### *Prefix* = type of heat pump or product

AW Air-to-water heat pump

AA Air-to-air heat pump

CPT C-PAC+ swimming pool heat pump

DH Dehumidifier

DT Delta

IPT I-PAC/I-PAC+ Inverter swimming pool heat pump

TTW Through-the-wall version of DH

VPT V-PAC vertical inverter swimming pool heat pump

#### Number = size of product

For example

I-PAC 8, 12, 16, 22, 28 Variheat 600, 900, 1200, 1500 Delta 2, 4, 6, 8, 10, 14, 16

DH 15, 30, 33, 55, 60, 75, 110, 150, 300, 600

#### Suffix (first letter) = power supply

A 220/240V 1-phase 50 Hz

B 380/415V 3-phase 50 Hz (3~ + N)

#### Suffix = features or operating parameters

Low water temperature (e.g. swimming pools)

HC Swimming pool heater/chiller

C Chiller only

P Electric air heater

X Low temperature defrostY Lowest temperature defrost

F High pressure fan option

S Soft-start

#### Configuration details. Refer to individual products.

For example

-SF01, -RF01 Variheat build configuration

-EF, -ER Delta handing

-SO, -TO, -RO Delta supply fan direction

-BCDEFG Delta options fitted

-L Variheat air heater (AA models)

-L Variheat air and water heaters (AW models)-E Variheat and Delta upgraded air heater

-FA Variheat fresh air module

-FK Filter kit
-PK Pump kit
-DK Duct flange kit



# **NOTES**



NOTES		



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