



PoolClub® GMBH

www.poolclub.com

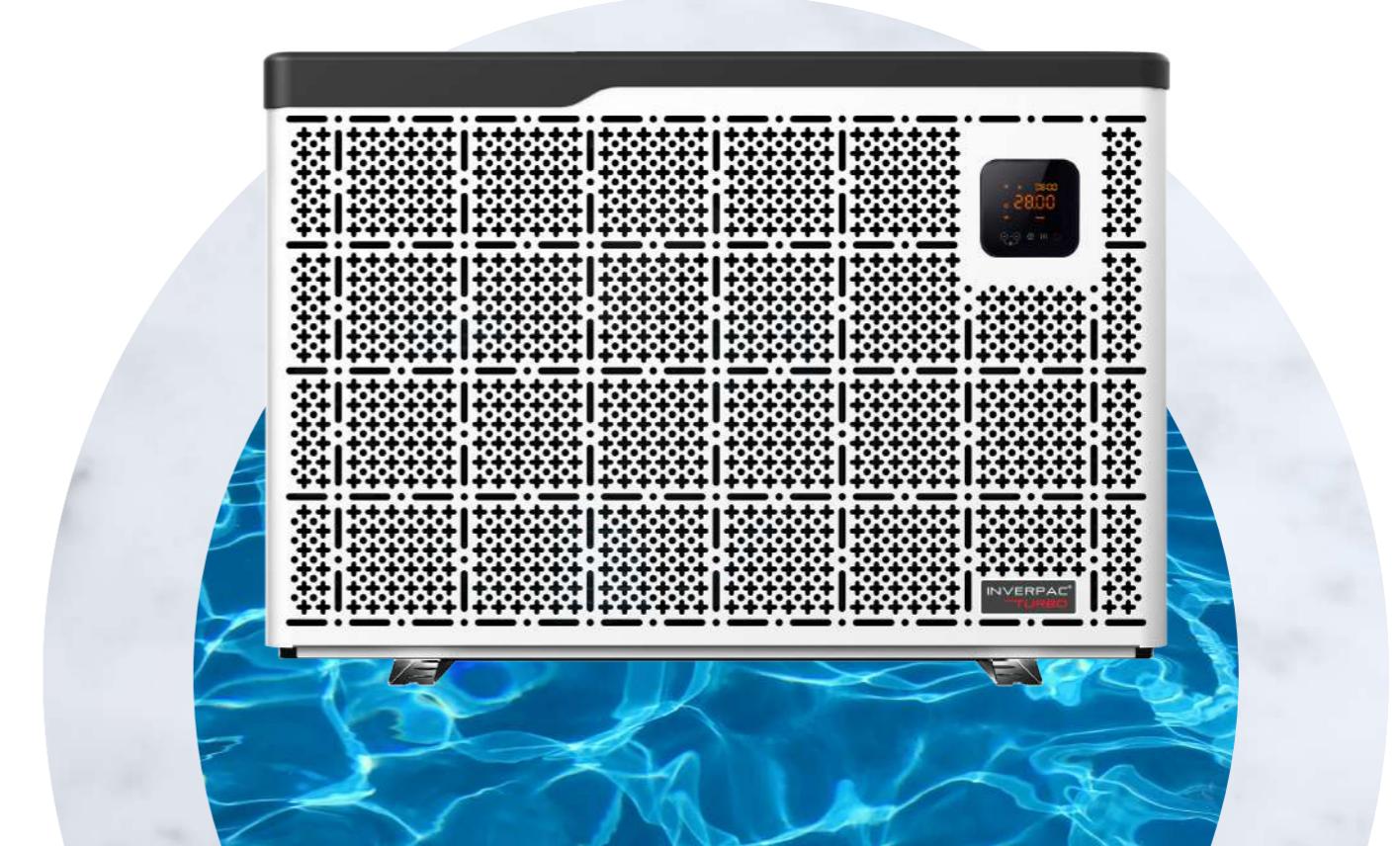
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Basler Str, 115, 79115 Freiburg im Breisgau, Baden-Württemberg, Germany

INVERPAC®

POOL HEAT PUMP

Beyond all your expectations





CONTENT

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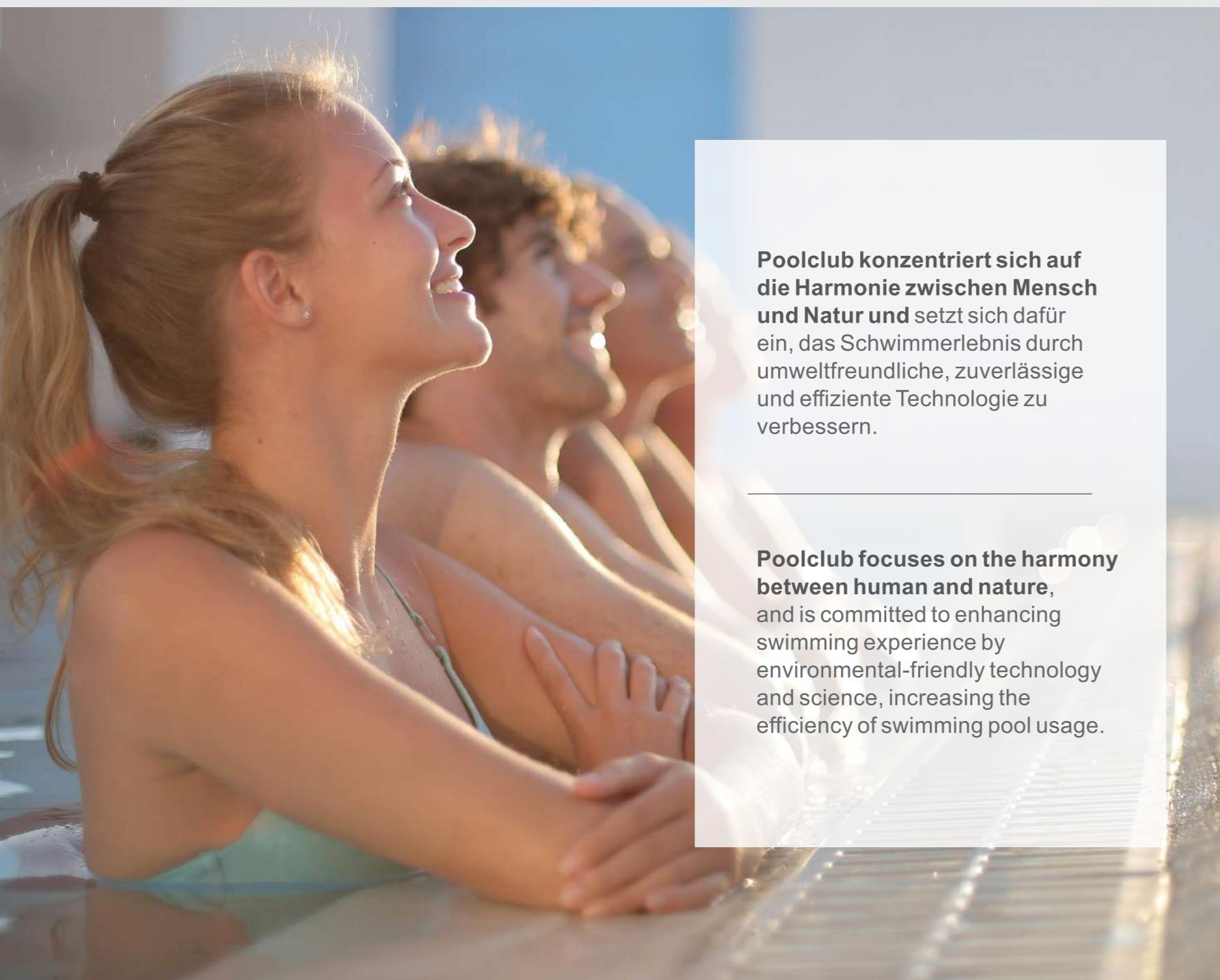
INVERPAC Technology **08**

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Poolclub konzentriert sich auf die Harmonie zwischen Mensch und Natur und setzt sich dafür ein, das Schwimmerlebnis durch umweltfreundliche, zuverlässige und effiziente Technologie zu verbessern.

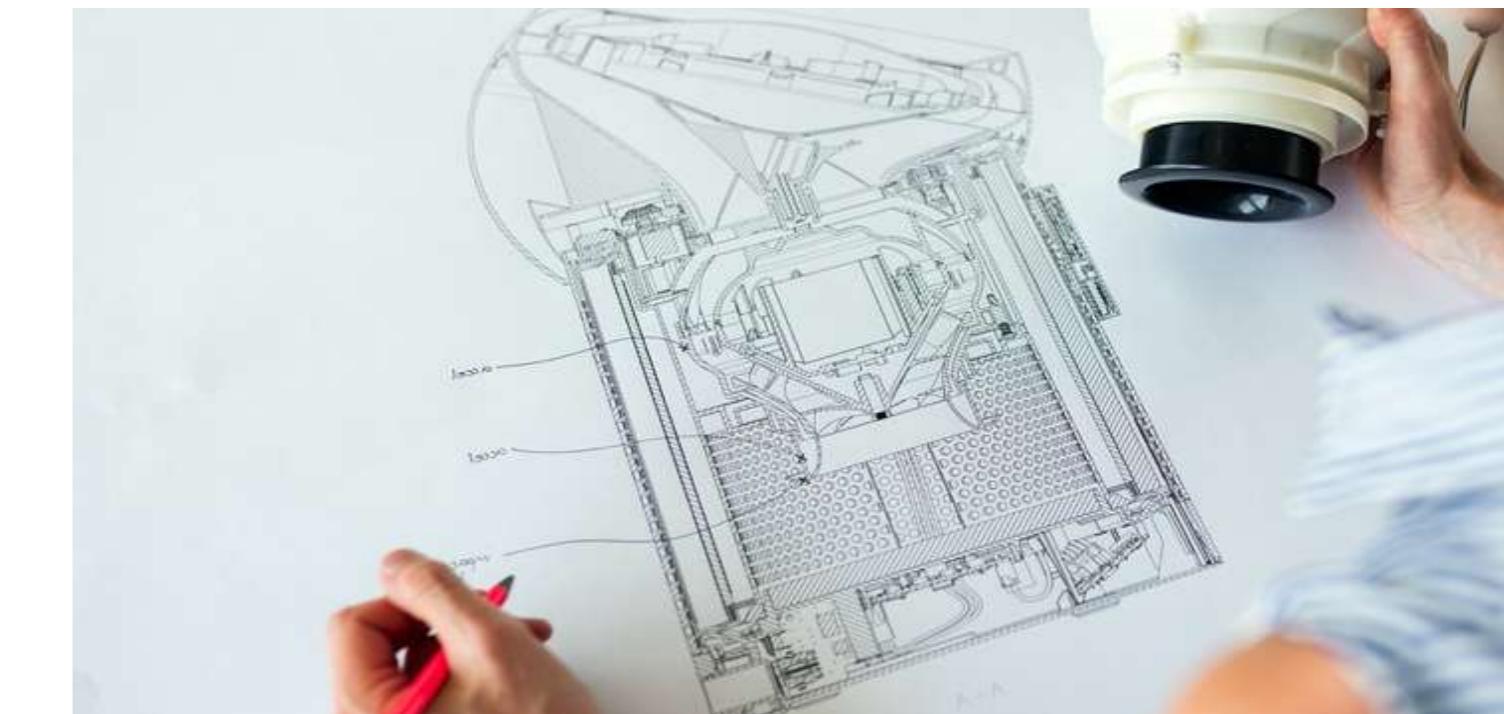
Poolclub focuses on the harmony between human and nature, and is committed to enhancing swimming experience by environmental-friendly technology and science, increasing the efficiency of swimming pool usage.

**INVERPAC®
TURBO**

INVERPAC IS A SMART INVERTER POOL HEATING SYSTEM.

Adhering to the concept of “GREEN EARTH”, we have been devoting in the research & development of application of air-source energy.

Integrated with high-performance compressor, twisted spiral titanium heat exchanger, inverter silent fan and hydrophilic coating evaporator, based on intelligent inverter technology, INVERPAC maximizes the utilization of air source energy while maintaining characteristics of good stability, whisper quiet operation and high efficiency.



INVERPAC®

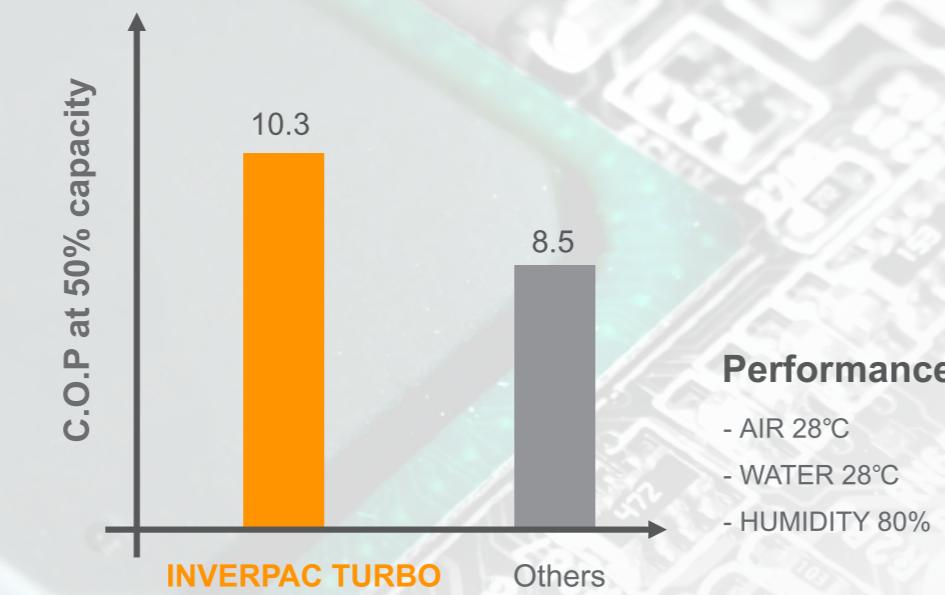
THE INVERPAC FAMILY

15 + YEARS DEDICATION ON POOL HEAT PUMPS

FOCUS MAKES PERFECTION



SMART INVERTER TECHNOLOGY



TURBO MODE

Fast heating with extra 20% capacity optimized for cold seasons down to -20°C.

SMART MODE

Best combination of performance and silence, pool heat automatically maintain the temperature at your preset value.

SILENT MODE

Whisper quiet, friendly neighborhood, INVERPAC operates at lowest consumption of power.

INVERPAC pool heat pump applies full inverter technology, the commander chip utilizes the performance of every components to maximize the efficiency of pool heating.

FULL INVERTER COMPRESSOR



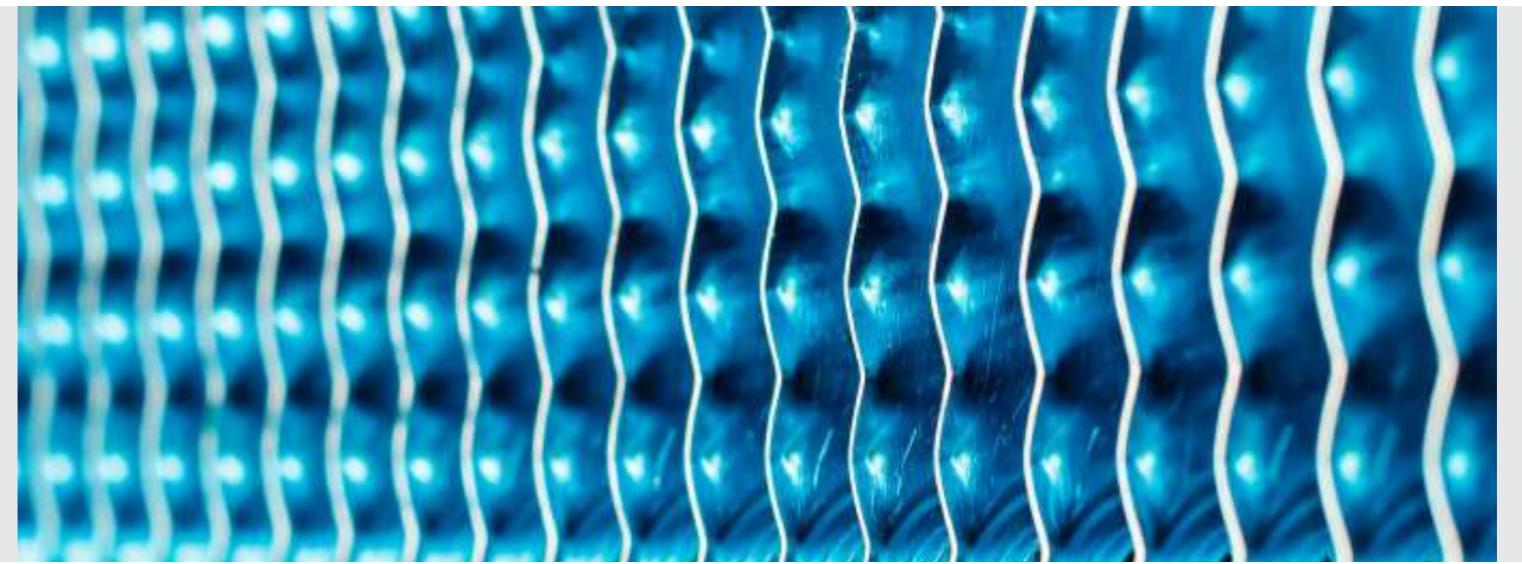
The **compressor** is the “heart” of a pool heat pump. To maintain a stable performance, INVERPAC's compressor is a compressor specially for air energy, which can provide a steady power supply.

- -20°C AMBIENT WORKING TEMPERATURE
- 0~100% CONTINUOUS VARIABLE SPEED
- ±0.1 BAR ACCURATE AND CONSTANT PRESSURE SUPPLY
- TWIN-CYLINDER STRUCTURE
- HIGH COMPRESSING RATE

HYDROPHILIC EVAPORATOR

The **evaporator** is a place where heat exchange happens, According to the heat exchange formula:
 $Q=KA\Delta t$

The absorbed heat Q is proportional to the heat coefficient K, the heat exchange area A and the heat exchange temperature difference Δt . After hundreds testing, **INVERPAC** designed the best efficient evaporator for the heating system.



It has a perfect fin gap to reduce the forming of frost, the best area for high efficiency, the hydrophilic coating for anti-frosting.

- 2MM PERFECT FIN GAP
- 1 μ M HYDROPHILIC COATING
- 45% WIND LOSS REDUCTION
- 5%~10% HEAT EXCHANGE INCREASE





TITANIUM HEAT EXCHANGER

In order to further improve the heat exchange efficiency, INVERPAC adopts the twisted spiral pure **titanium heat exchange tube**, which is corrosion-resistant and has good thermal conductivity, high heat exchange efficiency.

The twisted design enables 30% extra contact surface for water and refrigerant, the speed of flow passing through is lower, thus leave more time for heat exchanging.

- 30% EXTRA HEAT EXCHANGE AREA
- 200% HEAT EXCHANGE EFFICIENCY
- LESS SCALING INSIDE THE TUBE

CONTROL

- ANYWHERE • ANYTIME



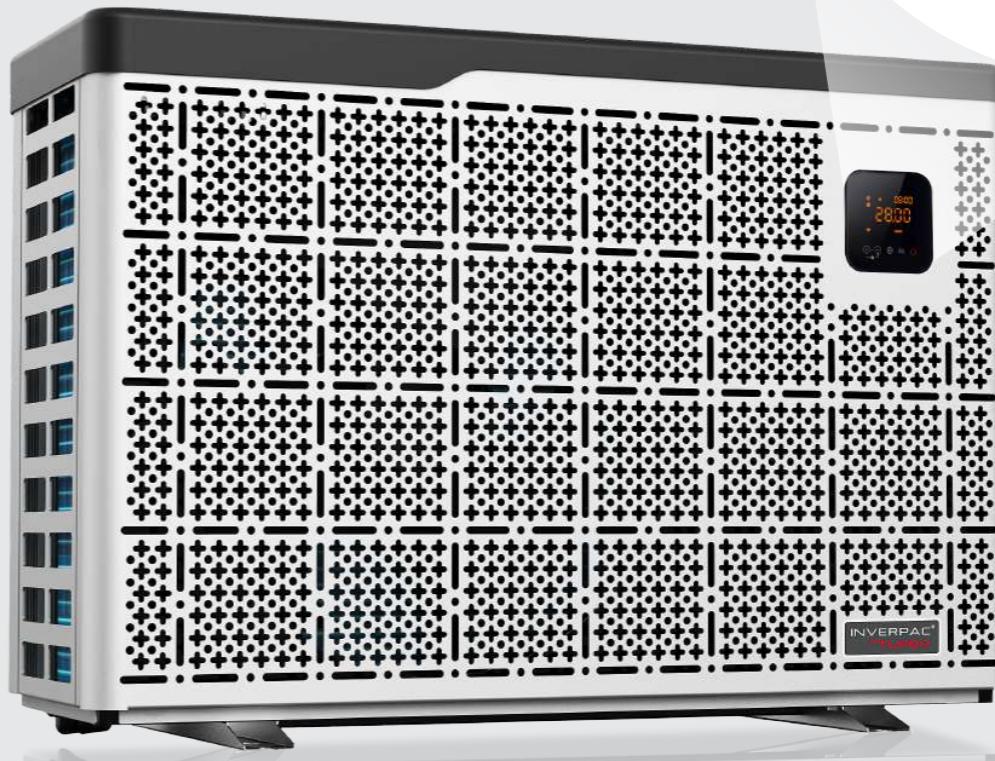
Tuya smart

* LANGUAGE OPTIONS

English, German, Swedish, French, Spanish,
Italian, Czech, Polish, Russian, Chinese



- Smooth touch control panel
- Heating-Cooling-Auto mode
- Temperature setup
- Timing switch
- Screen lock function



INVERPAC TURBO



INVERPAC

The INVERPAC TURBO series heat pump is applied with INVERPAC full inverter technology, 3 different modes controlled by the smart chip. It's the best guarantee for a better swimming experience.

4-SEASON OPERATON

The INVERPAC inverter technology enables the heat pump working at a temperature of -20°C, the auto-defrost function enables the continuous heat exchanging under extreme condition.

WHISPER QUIET

Special design for sound absorption, sound proof. 39~45 dB(A) *1m

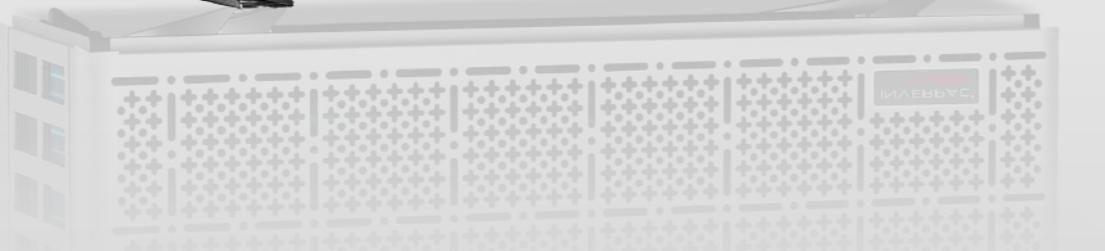
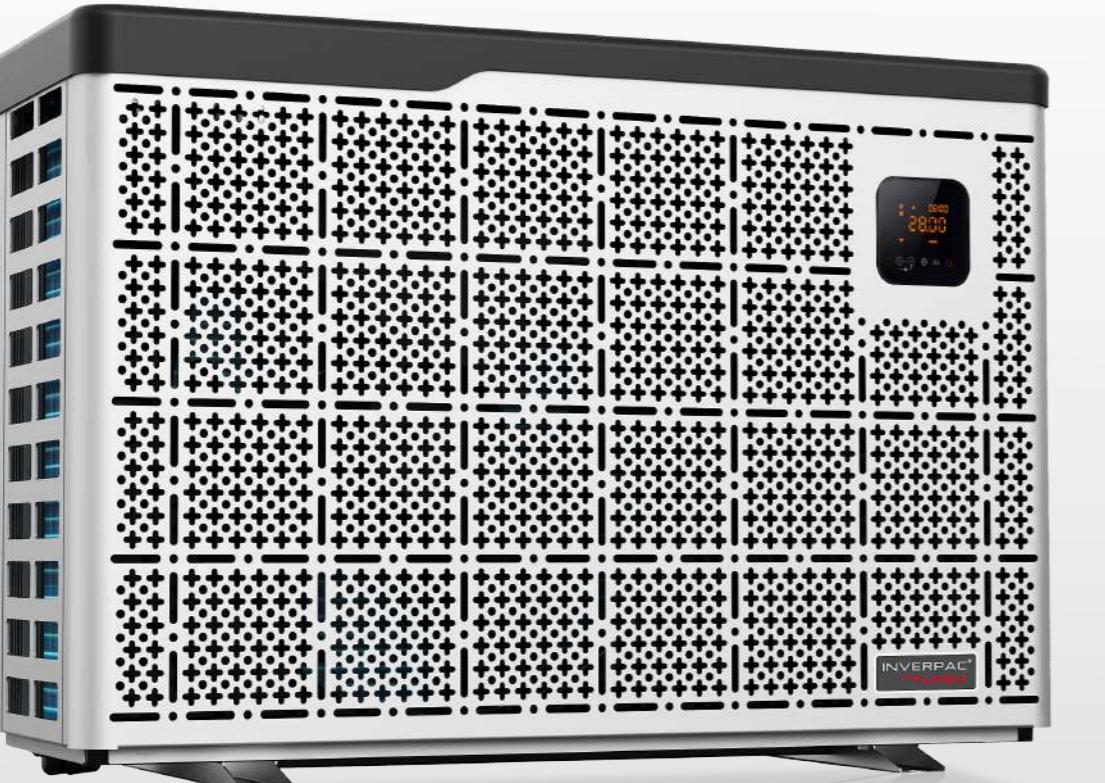
MITSUBISHI COMPRESSOR

It provides a constant power to the refrigerant, reliable and efficient.

ALUMINIUM

ASA cover and aluminium body, the perfect team to provide safety protection for the heat pump which has strong resistance to UV, chemical and color fade.

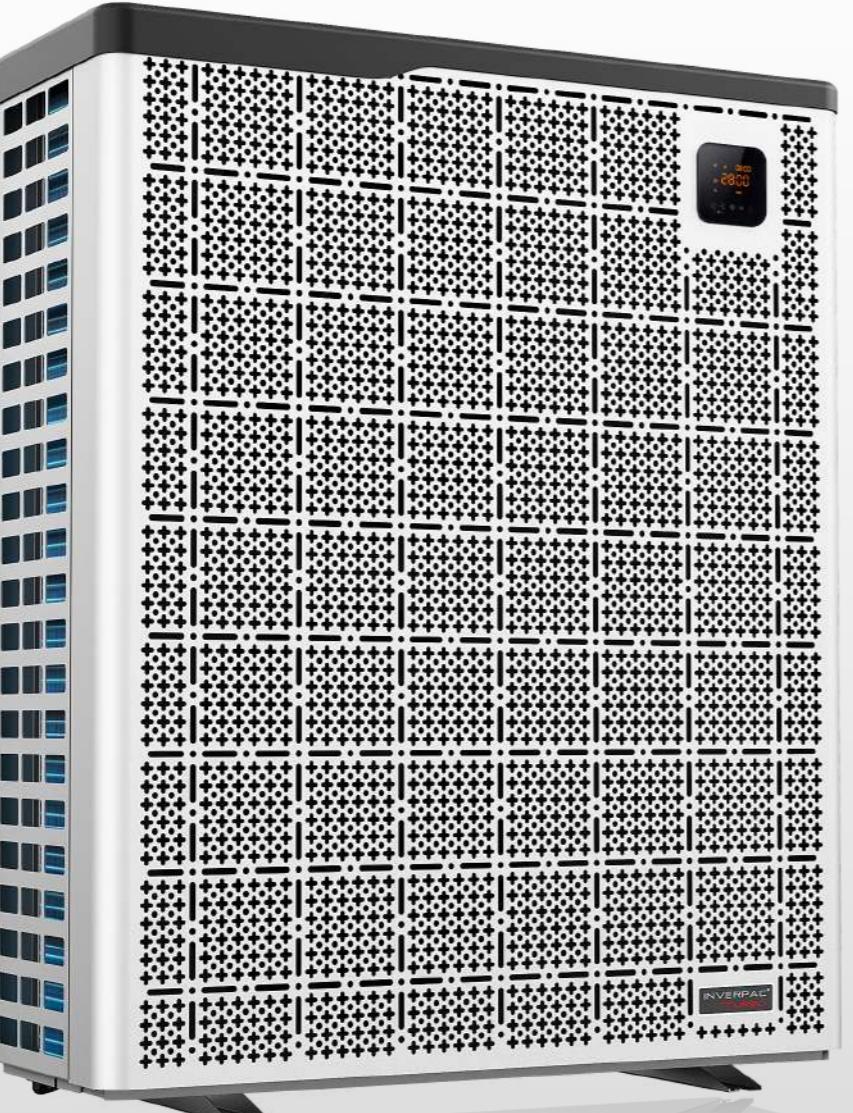
INVERPAC® TURBO



MODEL		INVERPAC 09	INVERPAC 11	INVERPAC 14	INVERPAC 16	INVERPAC 20	INVERPAC 25	INVERPAC 25T
Advised pool volume	M³	10-26	12-35	16-60	18-66	28-85	58-120	58-120
Performance at air 28°C, water 28°C, humidity 80%								
Turbo heating capacity	KW	9	11	14	16	20	25	25
Smart heating capacity	KW	7	9	11	14	16	20	20
Power consumption	KW	1.45-0.21	1.74-0.14	2.18-0.18	2.5-0.2	3.17-0.24	4.12-0.29	4.12-0.29
C.O.P.		16-6.7	16-6.7	16-6.7	16-6.7	16-6.7	16-6.7	16-6.7
C.O.P. in Turbo mode		6.2	6.3	6.4	6.4	6.3	6.3	6.3
C.O.P. at 50% capacity		10.2	10.3	10.4	10.4	10.3	10.3	10.3
Performance at Air 15°C, water 26°C, Humidity 70%								
Turbo heating capacity	KW	6.6	7.9	9.5	11.2	15	18	18
Smart heating capacity	KW	5	6.6	7.9	9.5	11.2	15	15
Power consumption	KW	1.47-0.32	1.72-0.24	2.02-0.25	2.38-0.29	3.26-0.38	3.91-0.49	3.91-0.49
C.O.P.		7.9-5	8.0-5	8.0-5	8.0-5	8.2-5	8.2-5	8.2-5
C.O.P. in Turbo mode		4.50	4.50	4.60	4.60	4.50	4.50	4.60
C.O.P. at 50% capacity		6.7	6.7	6.8	6.8	6.7	6.7	6.8
General Data								
Compressor type						Inverter compressor		
Voltage	V				220-240V/50Hz or 60Hz/1PH			380-415V/50Hz/3PH
Rated current	A	4.6	5.9	7.2	9.2	10.5	13.2	5.9
Max Current	A	6.5	7.8	9.7	11.1	14.1	18.3	7.2
Minimum fuse	A	10	12	15	16	22	28	11
Advised water flux	M³/H	2.5	3.0	3.7	4.0	5.0	6.0	6.0
Water pressure drop	Kpa	12	12	14	15	15	18	18
Heat exchanger						Twist-titanium tube in PVC		
Water connection	mm					50		
Fan quantity						1		
Ventilation type						Horizontal		
Noise level (10m)	dB(A)	≤27	≤27	≤28	≤29	≤30	≤32	≤27
Noise level (1m)	dB(A)	38-50	39-51	40-52	40-54	40-54	41-56	41-56
Dimension / Weight								
Net weight	Kg	56	68	73	78	98	117	117
Gross weight	Kg	68	73	78	83	113	135	135
Net dimension	mm	862*389*590	989*405*690	989*405*690	989*405*690	1078*396*890	1078*396*890	1078*396*890
Packing dimension	mm	930*425*735	1060*440*835	1060*440*835	1060*440*835	1145*490*1035	1145*490*1035	1145*490*1035

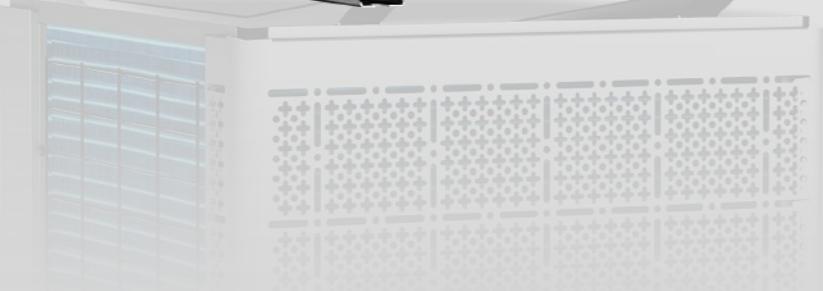
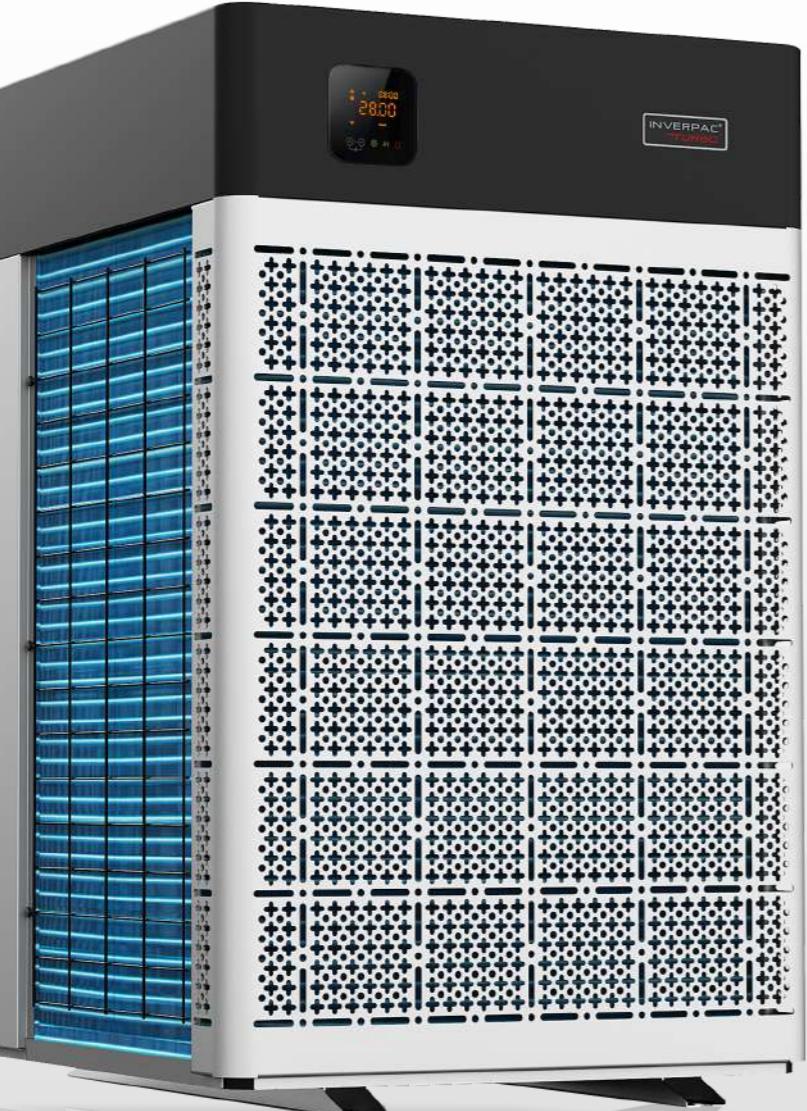
INVERPAC® TURBO

Dual Fans



MODEL		INVERPAC 30	INVERPAC 35	INVERPAC 30T	INVERPAC 35T
Advised pool volume	M ³	65-132	78-156	65-132	78-156
Performance at air 28°C, water 28°C, humidity 80%					
Turbo heating capacity	KW	30	35	30	35
Smart heating capacity	KW	26	30	26	30
Power consumption	KW	4.84-0.37	5.83-0.5	4.84-0.37	5.83-0.5
C.O.P.		16-6.6	16-6.6	16-6.6	16-6.6
C.O.P. in Turbo mode		6.2	6	6.2	6
C.O.P. at 50% capacity		10.3	10	10.3	10
Performance at Air 15°C, water 26°C, Humidity 70%					
Turbo heating capacity	KW	22	24	22	24
Smart heating capacity	KW	18	22	18	22
Power consumption	KW	4.78-0.68	5.51-0.7	4.78-0.68	5.51-0.7
C.O.P.		8.2-5	8.2-5	8.2-5	8.2-5
C.O.P. in Turbo mode		4.50	4.35	4.50	4.35
C.O.P. at 50% capacity		6.7	6.2	6.7	6.2
General Data					
Compressor type			Inverter compressor		
Voltage	V	220-240V/50Hz or 60Hz/1PH		380-415V/50Hz/3PH	
Rated current	A	17.0	23.0	7.0	8.1
Max Current	A	21.5	25.9	8.8	10.5
Minimum fuse	A	32	38	13	16
Advised water flux	M ³ /H	8.0	10.0	8.0	10.0
Water pressure drop	Kpa	20	25	20	25
Heat exchanger			Twist-titanium tube in PVC		
Water connection	mm		50		
Fan quantity			2		
Ventilation type			Horizontal		
Noise level (10m)	dB(A)	≤27	≤27	≤27	≤27
Noise level (1m)	dB(A)	42-60	42-60	42-60	42-60
Dimension / Weight					
Net weight	Kg	128	130	128	130
Gross weight	Kg	146	148	146	148
Net dimension	mm	1043*438*1295	1043*438*1295	1043*438*1295	1043*438*1295
Packing dimension	mm	1150*480*1440	1150*480*1440	1150*480*1440	1150*480*1440

INVERPAC® TURBO



MODEL		INVERPAC V14	INVERPAC V16	INVERPAC V20	INVERPAC V25	INVERPAC V30	INVERPAC V25T	INVERPAC V30T
Advised pool volume	M³	16-65	24-86	54-118	63-132	70-182	63-132	70-182
Performance at air 28°C, water 28°C, humidity 80%								
Turbo heating capacity	KW	14	16	20	25	30	25	30
Smart heating capacity	KW	11	14	16	20	26	20	26
Power consumption	KW	2.01-0.2	2.55-0.23	2.99-0.29	3.81-0.37	4.48-0.42	3.81-0.37	4.48-0.42
C.O.P.		16-6.7	16-6.7	16-6.7	16-6.7	16-6.7	16-6.7	16-6.7
C.O.P. in Turbo mode		6.4	6.4	6.3	6.3	6.2	6.3	6.2
C.O.P. at 50% capacity		10.4	10.4	10.3	10.3	10.3	10.3	10.3
Performance at Air 15°C, water 26°C, Humidity 70%								
Turbo heating capacity	KW	9.5	11.2	15	18	22	18	22
Smart heating capacity	KW	7.9	9.5	11.2	15	18	15	18
Power consumption	KW	2.02-0.3	2.4-0.4	3.0-0.48	3.8-0.59	4.7-0.67	3.8-0.59	4.7-0.67
C.O.P.		8.2-5	8.2-5	8.2-5	8.2-5	8.2-5	8.2-5	8.2-5
C.O.P. in Turbo mode		4.6	4.6	4.5	4.5	4.5	4.6	4.5
C.O.P. at 50% capacity		6.8	6.8	6.7	6.7	6.7	6.8	6.7
General Data								
Compressor type				Inverter compressor				
Voltage	V		220-240V/50Hz or 60Hz/1PH				380-415V/50Hz/3PH	
Minimum fuse	A	17	20	25	30	36	28	34
Advised water flux	M³/H	4.2	4.7	5.2	8.2	10.3	8.2	10.3
Water pressure drop	Kpa	15	15	18	18	18	18	18
Heat exchanger				Twist-titanium tube in PVC				
Water connection	mm				50			
Fan quantity					1			
Ventilation type				Vertical				
Noise level (10m)	dB(A)	≤29	≤30	≤32	≤33	≤33	≤33	≤33
Noise level (1m)	dB(A)	40-52	40-52	40-54	41-56	42-59	41-56	42-59
Refrigerant type				R32				
Dimension / Weight								
Net weight	Kg	78	98	117	128	130	128	130
Gross weight	Kg	83	113	135	146	148	146	148
Net dimension	mm	620*600*917	620*600*917	760*700*1152	760*700*1152	760*700*1152	760*700*1152	760*700*1152
Packing dimension	mm	730*665*1095	730*665*1095	810*750*1280	810*750*1280	810*750*1280	810*750*1280	810*750*1280

ELITE



UNIQUE DESIGN

ABS cabinet, durable and anti-corrosion.



LOW TEMPERATURE OPERATION

INVERPAC Elite is capable to work on low temperature of -12°C.



TITANIUM HEAT EXCHANGER

Twisted spiral titanium heat exchanger, super efficiency, antiscaling.



WHISPER QUIET 40~52 DB(A) *1M

As a result of sound proof treatment inside the heat pump, INVERPAC Elite generates much less noise than ordinary heat pump.



AUTO-DEFROST

Auto-defrost function, the chip monitor the stream of the refrigerant and the performance of the heat pump, defrost function will be controlled automatically.

INVERPAC® ELITE



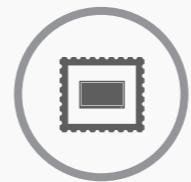
MODEL		INVERPAC S075	INVERPAC S095	INVERPAC S125	INVERPAC S165	INVERPAC S215	INVERPAC S255
Advised pool volume	M ³	10-25	12-33	15-60	25-85	55-120	65-130
Performance at air 28°C, water 28°C, humidity 80%							
Heating capacity	KW	7.5-2.2	9.5-2.3	12.5-2.9	16.5-3.8	19.5-4.7	24.5-5.9
Power consumption	KW	1.3-0.14	1.55-0.14	2-0.18	2.75-0.24	3.25-0.29	4.08-0.37
C.O.P.		16-5.6	16-5.8	16-6.2	16-6	16-6	16-6
Performance at Air 15°C, water 26°C, Humidity 70%							
Heating capacity	KW	4.7-2.5	6.6-1.9	8.5-2	11.2-3	14-3.9	17.2-4.5
Power consumption	KW	1.02-0.35	1.43-0.27	1.89-0.28	2.43-0.42	2.78-0.54	3.74-0.63
C.O.P.		7.1-4.5	7.1-4.5	7.2-4.5	7.2-4.5	7.2-4.5	7.2-4.5
General Data							
Compressor type						Inverter compressor	
Voltage	V					220-240V/50Hz or 60Hz/1PH	
Rated current	A	5.8	6.9	8.9	12.2	14.4	18.1
Minimum fuse	A	9	10	14	18	22	27
Advised water flux	M ³ /H	2.5	2.8	3.7	4.6	5.0	8.0
Water pressure drop	Kpa	12	12	14	15	18	20
Heat exchanger						Twist-titanium tube in PVC	
Water connection	mm					50	
Fan quantity						1	
Ventilation type						Horizontal	
Fan speed	RPM					500-850	
Noise level(10m)	dB(A)	≤41	≤42	≤42	≤43	≤45	≤46
Noise level(1m)	dB(A)	40-50	40-52	40-52	41-54	41-54	42-60
Dimension/ Weight							
Net weight	kg	56	68	68	98	117	128
Gross weight	kg	68	73	73	113	135	146
Net dimension	mm	855*325*565	855*325*565	986*352*672	986*352*672	1040*355*895	1040*355*895
Packing dimension	mm	942*375*695	942*375*695	1066*426*835	1066*426*835	1095*405*1025	1095*405*1025

INVERPAC® ELITE



MODEL		INVERPAC S305	INVERPAC S305T
Advised pool volume	M ³	75-180	75-180
Performance at air 28°C, water 28°C, humidity 80%			
Turbo heating capacity	KW	28.5-6.8	28.5-6.8
Power consumption	KW	4.75-0.43	4.75-0.43
C.O.P.		16-6	16-6
Performance at Air 15°C, water 26°C, Humidity 70%			
Turbo heating capacity	KW	22.8-5.6	22.8-5.6
Power consumption	KW	4.26-0.78	4.26-0.78
C.O.P.		7.2-4.5	7.2-4.5
General Data			
Compressor type		Inverter compressor	
Voltage	V	220-240V/50Hz or 60Hz/1PH	380-415V/50Hz/3PH
Rated current	A	21.0	8.5
Minimum fuse	A	34	13
Advised water flux	M ³ /H	10.0	10.0
Water pressure drop	Kpa	25	25
Heat exchanger		Twist-titanium tube in PVC	
Water connection	mm	50	
Fan quantity		2	
Ventilation type		Horizontal	
Fan speed	RPM	(500-850)*2	
Noise level(10m)	dB(A)	≤49	≤49
Noise level(1m)	dB(A)	42-60	42-60
Dimension/ Weight			
Net weight	kg	130	130
Gross weight	kg	148	148
Net dimension	mm	1040*355*1295	1040*355*1295
Packing dimension	mm	1120*405*1430	1120*405*1430

COMMERCIAL



SMART CONTROL

Full inverter smart control system



COOLING/HEATING

4-season operation
high efficiency
in winter season



MODULAR

Modular design flexible
for different pool size



WHISPER QUIET

Whisper quiet operation
noise level

INVERPAC® COMMERCIAL

INVERPAC commercial is a modular design you can link several models together as a system for your swimming pool

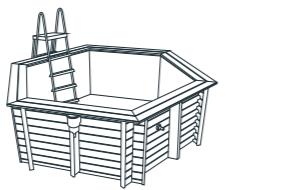
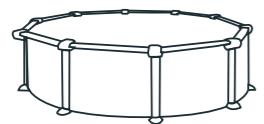


MODEL	INVERPAC C50	INVERPAC C60	INVERPAC C100	INVERPAC C130
Advised pool volume M ³	110~160	150~260	180~400	220~520
Performance at air 28°C, water 28°C, humidity 80%				
Turbo heating capacity KW	52	60	105	130
Smart heating capacity KW	45	55	90	110
Power consumption KW	9.29~2.27	10.71~2.62	18.1~4.59	22~5.24
C.O.P. in Turbo mode	5.6	5.6	5.8	5.9
C.O.P. at 50% capacity	10.3	10.4	10.5	10.5
Performance at Air 15°C, water 26°C, Humidity 70%				
Turbo heating capacity KW	40	45	80	100
Smart heating capacity KW	32	36	65	75
Power consumption KW	8.9~2.17	10.47~2.47	18.6~4.39	23.26~5.49
C.O.P. in Turbo mode	4.5	4.5	4.8	4.8
C.O.P. at 50% capacity	7.4	7.5	7.9	7.9
General Data				
Compressor type	Inverter compressor			
Compressor quantity	2			
Voltage V	380~415V/50Hz/3PH			
Rated current A	14.5	16.5	28	34.5
Minimum fuse A	22	25	42	52
Advised water flux M ³ /H	22~30	26~35	45~55	55~65
Water pressure drop Kpa	30	32	35	38
Heat exchanger	Twist-titanium tube in PVC			
Water connection mm	63	63	75	90
Fan quantity	1			
Ventilation type	Vertical			
Power input of fan KW	750	750	550*2	750*2
Fan speed RPM	800~550	800~550	800~550	800~550
Noise level (10m) dB(A)	≤42	≤42	≤44	≤44
Noise level (1m) dB(A)	43~61	44~62	45~64	46~65
Dimension / Weight				
Net weight Kg	230	270	460	530
Gross weight Kg	258	310	510	600
Net dimension mm	865*855*1495	865*855*1495	1960*945*1565	1960*945*1565
Packing dimension mm	965*985*1665	965*985*1665	2060*1045*1735	2060*1045*1735

PoolClub® MINI Q



Pool heating solution for 18 M³ above ground pool



TINY BUT MIGHTY



- Plug and use
- C.O.P. up to 4.2
- Titanium heat exchanger
- High efficiency compressor
- Easy piping
- Hydro-isolation design
- Press to set up

MODEL	Mini Q25	Mini Q45	Mini Q55	
Advised pool volume (with pool cover)	M ³	0-10	5-16	10-20
Performance at air 28°C, water 28°C, humidity 80%				
Heat Output	KW	2.5	4.2	5.5
power consumption	KW	0.59	1	1.31
C.O.P		4.2	4.2	4.2
Performance at Air 15°C, water 26°C, Humidity 70%				
Heat Output	KW	1.9	3.2	4.2
Power consumption	KW	0.56	0.91	1.2
C.O.P		3.4	3.5	3.5
General Data				
Compressor type		Rotary/R32		
Voltage	V	220-240V/50Hz/1PH		
Reated current	A	2.6	4.4	5.8
Fuse current	A	7.5	13	16
Advised water flux	M ³ /H	2	2	2.5-3
Water pressure drop	Kpa	15	15	15
Heat exchanger		Twist-titaniumn tube in PVC		
Water connection	mm	32 or 38		
Fan quantity		1		
Fan speed	BPM	2100	1100	1100
Ventilation type		Horizontal		
Sound oressure at 10m	dB(A)	48	46	46
Sound oressure at 1m	dB(A)	57	55	55
Refrigerant type		R32		
Refrigerant amount	g	160	230	400
Gwp Value		0.11	0.16	0.27
Dimension / Weight				
Net weight	Kg	18	26	28
Gross weight	Kg	20	28	30
Net dimension	mm	330*346*420	438*437*521	437*437*521
Packing dimension	mm	385*480*480	495*570*585	495*570*585