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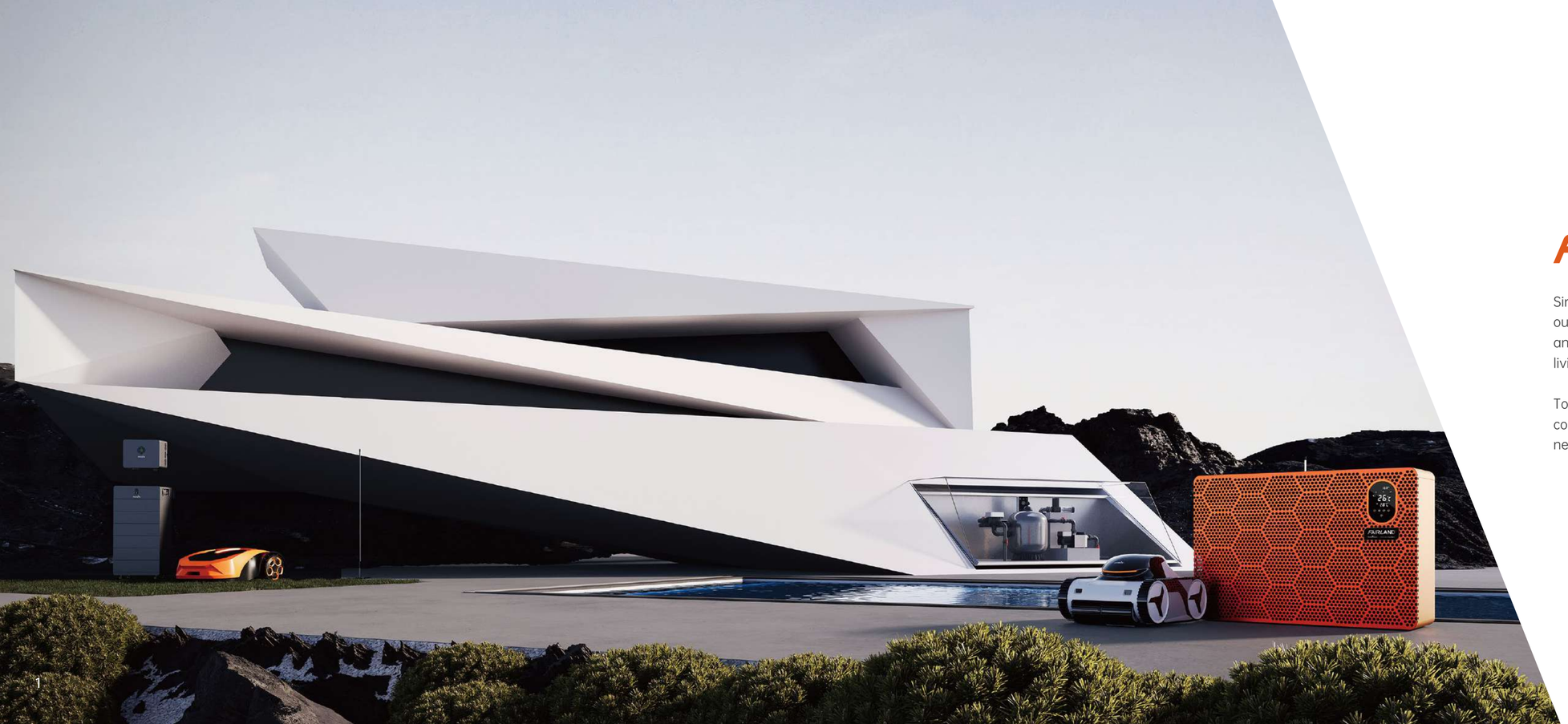


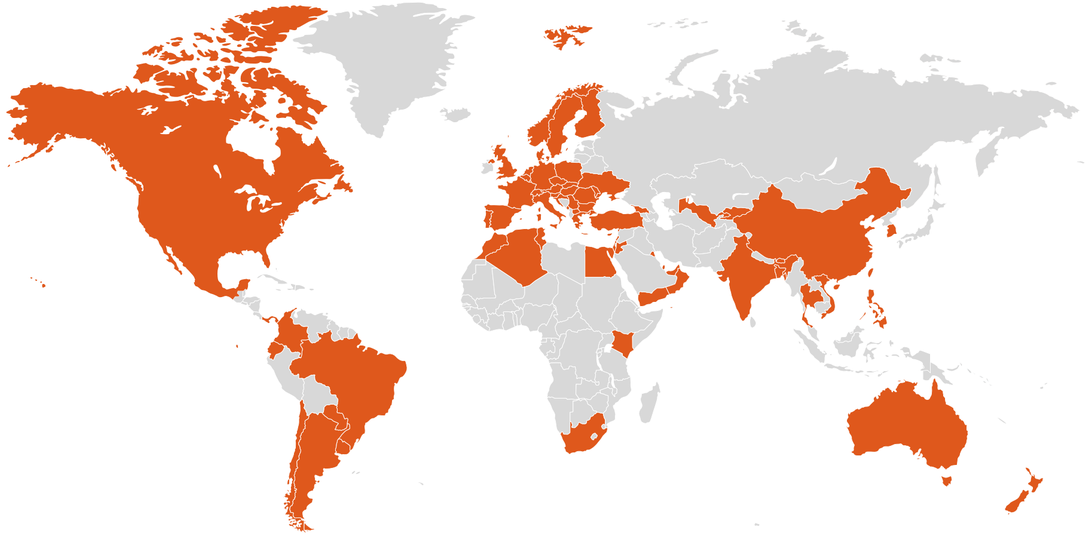
FAIRLAND®

Since 1999, FAIRLAND has been committed to promoting a technological outdoor lifestyle. With continuous innovation in technological products and solutions for iGarden, our efforts are aimed at upgrading outdoor living for individuals.

To usher in a new era of outdoor technology, we are dedicated to collaborating with global partners. Always on the way to beyond limit in new technology.

HISTORY-BEYOND LIMIT

FAIRLAND	1999	Heat pump factory established
	2003	18NV Tech
	2012	HP-Booster
	2014	Full-inverter
iGARDEN	2018	iGarden Vision AI-Wireless Pool Robot Inverter Water Pump
	2019	TurboSilence Inverter Tech
	2022	TurboSilence20: COP20
	2023	Mass Production of COP20
	2024	COP39 Guinness World Record



120+ Countries

Europe

America

Oceania

Asia

Africa

RECORD HOLDER

COP 39

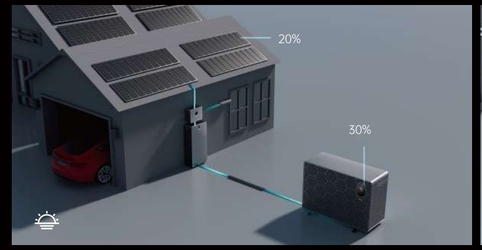
WORLD'S MOST ENERGY-SAVING POOL HEAT PUMP

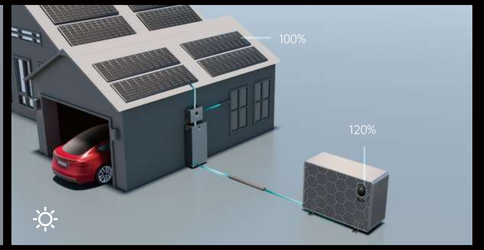
(PROTOTYPE)

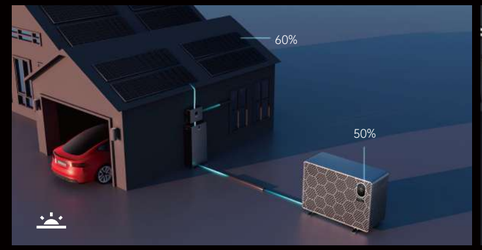
iGarden
Sunshine Life

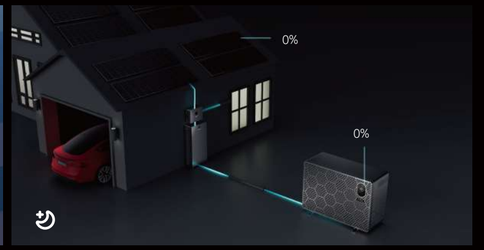
Solar Energy Storage System

100% GREEN









TurboSilence 20

Redefine the Industry Standard

TurboSilence20 technology is optimized based on Fairland's TurboSilence Full-inverter technology. It perfectly matches the inverter compressor with the extreme lightning heat exchange technology to maximize COP performance, increasing efficiency by 30%.

COP20

30% higher than standard

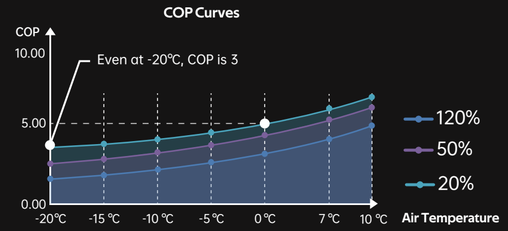
LIGHTNING HEAT EXCHANGER

30% more efficient

Warm Your Pool at -20°C

-20℃ 43℃

Excellent Low-temperature Performance



Example Model: X20-16

INVERX20-R32/R290

Ai Self-Developed Control System

20X Saving

0 Compressor Noise

Lightning Heat Exchanger

TurboSilence 20

INVERX20 SPECS R32

Model	X20-09C	X20-11C	X20-14C	X20-16C	X20-18C	X20-22C	X20-26C	X20-26CT	X20-32C	X20-32CT	X20-40C	X20-40CT
Advised pool volume (m³)	18~35	25~40	30~50	35~60	40~65	45~75	55~90	55~90	65~105	65~105	75~120	75~120
Operating air temperature (℃)	-20~43											
Performance Condition: Air 26℃, Water 26℃, Humidity 80%												
Heating capacity (kW) in Turbo mode	9.5	11.5	14.0	16.5	18.5	22.0	26.5	26.5	32.0	32.0	40.0	40.0
Heating capacity (kW) in Smart mode	8.0	9.0	12.0	14.0	15.4	18.0	22.5	22.5	27.5	27.5	35.0	35.0
COP	19.5~7.3	20.2~7.6	20.0~7.8	20.5~7.4	19.6~7.2	21~7.4	20.7~7.5	19.3~7.4	20.0~7.3	19.8~7.3	20.1~7.3	19.5~7.3
COP at 50% capacity	14.6	15.0	15.2	15.1	14.8	15.3	15.2	15.2	15.1	15.1	15.0	15.0
Performance Condition: Air 15℃, Water 26℃, Humidity 70%												
Heating capacity (kW) in Turbo mode	6.5	7.7	9.2	11.0	12.5	14.8	18.2	18.2	22.3	22.3	28.5	28.5
Heating capacity (kW) in Smart mode	5.4	6.4	7.5	9.2	10.4	12.5	15.0	15.0	18.5	18.5	24.0	24.0
COP	8.0~5.2	8.7~5.6	8.1~5.4	9.0~5.3	8.2~5.1	9.0~5.4	9.5~5.5	9.3~5.5	8.3~5.4	8.3~5.4	8.2~5.0	8.2~5.0
COP at 50% capacity	7.2	7.5	7.3	7.7	7.3	7.6	8.0	8.0	7.6	7.6	7.5	7.5
Performance Condition: Air 7℃, Water 26℃, Humidity 90%												
Heating capacity (kW) in Turbo mode	5.0	6.6	7.4	9.2	10.5	11.8	15.5	15.5	17.8	17.8	22.8	22.8
COP	7.1~4.5	7.2~4.9	7.1~4.6	7.2~4.6	7.0~4.4	7.4~4.5	7.3~4.7	7.2~4.5	7.3~4.7	7.0~4.5	7.0~4.3	7.0~4.3
Performance Condition: Air 35℃,Water 28℃, Humidity 80%												
Cooling capacity (kW) (optional)	4.5	5.0	6.5	9.0	10.3	11.5	13.0	13.0	15.0	15.0	19.5	19.5
Sound pressure at 1m dB(A)	36.6~43.4	37.7~44.8	37.8~45.9	41.0~46.7	41.5~47.3	41.9~49.5	39.7~49.8	39.7~49.8	42.1~50.3	42.1~50.3	41.5~50.5	41.5~50.5
Sound pressure of 50% capacity at 1m dB(A)	37.6	38.8	40.3	42.7	42.5	43.3	43.1	43.1	45.2	45.2	42.5	42.5
Sound pressure at 10m dB(A)	16.6~23.4	17.7~24.8	17.8~25.9	21.0~26.7	21.5~27.3	21.9~29.5	19.7~29.8	19.7~29.8	22.1~30.3	22.1~30.3	21.5~30.5	21.5~30.5
Compressor	Twin-rotary Mitsubishi DC-inverter											
Heat Exchanger	Lightning Heat Exchanger											
Casing	Aluminum-alloy Casing											
Power supply	230V/1 Ph/50Hz							400V 3N~, 50Hz	230V~/1Ph/50Hz	400V 3N~,50Hz	230V~/1Ph/50Hz	400V 3N~, 50Hz
Rated input power at air 15℃ (kW)	0.14~1.25	0.15~1.38	0.19~1.7	0.20~2.08	0.25~2.45	0.27~2.74	0.32~3.31	0.32~3.31	0.46~4.1	0.46~4.1	0.60~5.7	0.60~5.7
Rated input current at air 15℃ (A)	0.61~5.43	0.65~6.00	0.83~7.39	0.87~9.04	1.09~10.65	1.17~11.9	1.39~14.4	0.46~4.78	2.01~17.8	0.66~5.91	2.6~24.8	0.87~8.22
Advised water flux (m³/h)	2~4	2~4	3~4	4~6	4~6	6.5~8.5	8~10	8~10	10~12	10~12	12~18	12~18
Net Dimension LxWxH (mm)	910×432×660	910×432×660	945×432×660	1045×432×660	1045×432×660	1195×432×760	1072×536×956	1072×536×956	1264×536×956	1264×536×956	1364×536×956	1364×536×956
Net weight (kg)	63	63	65	72	73	82	100	111	122	132	133	147
Qty per 20'FT / 40'HQ (sets)	78/168	78/168	78/165	72/150	72/150	40/135	34/72	34/72	32/66	32/66	26/64	26/64

* The advised pool volume indicated applies under following conditions: Swimming pool is well covered; system runs at least 15 hours per day;
* The final specs will be in accordance with the specs on the product .

INVERX20 SPECS R290

Model	X20-09CP	X20-11CP	X20-14CP	X20-16CP	X20-18CP	X20-22CP	X20-26CP	X20-26CPT	X20-32CP	X20-32CPT	X20-40CPT
Advised pool volume (m³)	18~35	25~40	30~50	35~60	40~65	45~75	55~90	55~90	65~105	65~105	75~120
Operating air temperature (℃)	-20~43										
Performance Condition: Air 26℃, Water 26℃, Humidity 80%											
Heating capacity (kW) in Turbo mode	9.3	11.3	13.7	16.2	18.0	21.6	26.0	26.0	32.0	32.0	40.0
Heating capacity (kW) in Smart mode	7.8	8.8	11.8	13.7	15.0	17.6	22.1	22.1	27.5	27.5	35.0
COP	19.3~7.2	20~7.5	19.8~7.7	20.3~7.3	19.4~7.1	20.8~7.3	20.5~7.4	19.1~7.3	19.8~7.2	19.6~7.2	19.3~7.2
COP at 50% capacity	14.5	14.9	15.0	14.9	14.7	15.1	15.0	15.0	14.9	14.9	14.9
Performance Condition: Air 15℃, Water 26℃, Humidity 70%											
Heating capacity (kW) in Turbo mode	6.4	7.5	9.0	10.8	12.3	14.5	17.8	17.8	22.3	22.3	28.5
Heating capacity (kW) in Smart mode	5.3	6.3	7.4	9.0	10.2	12.3	14.7	14.7	18.5	18.5	24.0
COP	7.8~5.1	8.5~5.5	7.9~5.3	8.8~5.2	8~5	8.8~5.3	9.3~5.4	9.1~5.4	8.3~5.4	8.3~5.4	8~5.0
COP at 50% capacity	7.1	7.4	7.2	7.5	7.2	7.4	7.8	7.8	7.4	7.4	7.4
Performance Condition: Air 7℃, Water 26℃, Humidity 90%											
Heating capacity (kW) in Turbo mode	5.0	6.5	7.4	9.0	10.5	12.0	15.5	15.5	17.8	17.8	22.8
COP	6.9~4.5	7.0~4.9	7.1~4.6	7.2~4.6	7.0~4.4	7.3~4.5	7.0~4.7	7.2~4.5	7.3~4.7	7.0~4.5	7.0~4.3
Performance Condition: Air 35℃,Water 28℃, Humidity 80%											
Cooling capacity (kW)(Optional)	4.5	5.0	6.5	9.0	10.3	11.5	13.0	13.0	15.0	15.0	19.5
Sound pressure at 1m dB(A)	36.6~43.4	37.7~44.8	37.8~45.9	41.0~46.7	41.5~47.3	41.9~49.5	39.7~49.8	39.7~49.8	42.1~50.3	42.1~50.3	41.5~50.5
Sound pressure of 50% capacity at 1m dB(A)	37.6	38.8	40.3	42.7	42.5	43.3	43.1	43.1	45.2	45.2	42.5
Sound pressure at 10m dB(A)	16.6~23.4	17.7~24.8	17.8~25.9	21.0~26.7	21.5~27.3	21.9~29.5	19.7~29.8	19.7~29.8	22.1~30.3	22.1~30.3	21.5~30.5
Compressor	Twin-rotary Mitsubishi DC-inverter										
Heat Exchanger	Lightning Heat Exchanger										
Casing	Aluminum-alloy Casing										
Power supply	230V~/1Ph/50Hz							400V 3N~, 50Hz	230V~/1Ph/50Hz	400V 3N~, 50Hz	
Rated input power at air 15℃ (kW)	0.14~1.25	0.15~1.38	0.19~1.7	0.20~2.08	0.25~2.45	0.27~2.74	0.32~3.31	0.32~3.31	0.46~4.1	0.46~4.1	0.60~5.7
Rated input current at air 15℃ (A)	0.61~5.43	0.65~6.00	0.83~7.39	0.87~9.04	1.09~10.65	1.17~11.9	1.39~14.4	0.46~4.78	2.01~17.8	0.66~5.91	0.87~8.22
Advised water flux (m³/h)	2~4	2~4	3~4	4~6	4~6	6.5~8.5	8~10	8~10	10~12	10~12	12~18
Net Dimension LxWxH (mm)	910×432×670	910×432×670	945×432×670	1045×432×670	1045×432×670	1195×432×770	1072×536×966	1072×536×966	1264×536×957	1264×536×957	1364×536×957

* The advised pool volume indicated applies under following conditions: Swimming pool is well covered; system runs at least 15 hours per day;
* The final specs will be in accordance with the specs on the product .

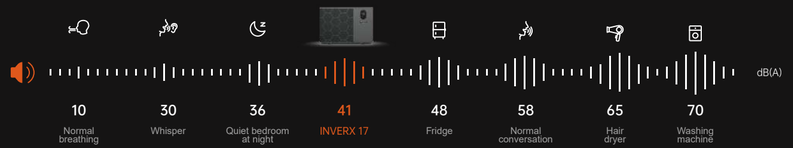
120% Heating Capacity in Turbo Mode

17x Energy Saving

COP 17: 1kW Input = 17kW Heat in Return.

15 Times Quieter

Average Sound Pressure 41dB(A).



INVERX17

Self-Developed Control System

17X Saving

0 Compressor Noise

Aluminum-Alloy Casing

Real-time Power Consumption Display

TurboSilence

INVERX17 Horizontal SPECS R32

Model	IXCR21	IXCR28	IXCR36	IXCR43	IXCR46	IXCR56	IXCR66	IXCR66T	IXCR80	IXCR80T	IXCR110T
Advised pool volume (m³)	20~30	25~40	31~50	41~55	41~60	51~75	61~85	61~85	76~110	76~110	86~140
Operating air temperature (℃)	-15~43										
Performance Condition: Air 26℃, Water 26℃, Humidity 80%											
Heating capacity (kW) in Turbo mode	9.0	11.3	14.0	16.0	17.8	22.0	26.0	26.0	32.0	32.0	40.0
Heating capacity (kW) in Smart mode	7.5	9.5	11.8	13.5	15.0	18.0	22.0	22.0	27.5	27.5	35.0
COP in Smart mode	7.6	8.0	8.5	8.0	7.7	7.5	8.0	8.0	7.6	7.6	7.5
COP	15.5~7.2	15.6~7.3	15.5~7.5	16.2~7.0	16.0~6.6	15.5~6.5	16.5~7.0	16.5~7.0	16.3~6.5	16.3~6.5	17.1~6.6
COP at 50% capacity	11.5	11.8	12.0	11.6	11.5	11.5	11.6	11.6	11.5	11.5	11.4
Performance Condition: Air 15℃, Water 26℃, Humidity 70%											
Heating capacity (kW) in Turbo mode	6.0	7.5	9.3	10.5	11.5	14.5	18.0	18.0	22.0	22.0	28.5
Heating capacity (kW) in Smart mode	5.0	6.3	7.8	8.8	9.5	12.0	15.0	15.0	18.5	18.5	24.5
COP in Smart mode	5.0	5.4	5.5	5.5	5.2	5.2	5.6	5.6	5.5	5.5	5.3
COP	7.5~4.6	7.1~4.9	7.0~5.0	8.0~4.8	7.5~4.5	8.0~4.7	8.0~5.1	8.0~5.1	8.0~5.0	8.0~5.0	8.1~4.8
COP at 50% capacity	6.8	6.7	6.7	7	6.8	7.0	7.0	7.0	7.0	7.0	6.9
Performance Condition: Air 35℃,Water 28℃, Humidity 80%											
Cooling capacity (kW) (optional)	3.8	4.5	5.8	6.3	6.7	8.2	12.0	12.0	14.0	14.0	16.5
Sound pressure at 1m dB(A)	37.8~44.5	38.5~45.5	38.6~46.9	42.0~47.1	42.0~47.7	42.9~50.8	40.8~51.2	40.8~51.2	43.3~51.9	43.3~51.9	42.5~51.7
Sound pressure of 50% capacity at 1m dB(A)	38.5	39.5	41.3	43.2	43.7	44.5	44.4	44.4	46.4	46.4	43.8
Sound pressure at 10m dB(A)	17.8~24.5	18.5~25.5	18.6~26.9	22.0~27.1	22.0~27.7	22.9~30.8	20.8~31.2	20.8~31.2	23.3~31.9	23.3~31.9	22.5~31.7
Compressor	Twin-rotary Mitsubishi DC-inverter										
Heat Exchanger	Spiral Titanium Tube in PVC										
Casing	Aluminum-alloy Casing										
Power supply	230V/1 Ph/50Hz							400V 3N~, 50Hz	230V~/1Ph/50Hz	400V 3N~, 50Hz	
Rated input power at air 15℃ (kW)	0.15~1.31	0.18~1.53	0.22~1.8	0.23~2.2	0.26~2.56	0.31~3.08	0.38~3.53	0.38~3.53	0.46~4.4	0.46~4.4	0.60~5.94
Rated input current at air 15℃ (A)	0.65~5.70	0.78~6.65	0.96~7.82	1.00~9.56	1.14~11.3	1.35~13.4	1.65~15.3	0.55~5.09	2.01~19.1	0.66~6.35	0.87~8.57
Advised water flux (m³/h)	2~4	2~4	3~4	4~6	4~6	6.5~8.5	8~10	8~10	10~12	10~12	12~18
Net Dimension L × W × H (mm)	799×432×650	799×432×650	893×432×650	939×432×650	939×432×650	995×432×750	1125×429×952	1125×429×952	1074×539×947	1074×539×947	1260×539×947
Net weight (kg)	51	51	61	65	65	70	98	98	102	111	126
Qty per 20'FT / 40'HQ (sets)	90/195	90/195	78/180	78/168	78/168	50/162	42/92	42/92	36/80	36/80	32/66

* The advised pool volume indicated applies under following conditions: Swimming pool is well covered; system runs at least 15 hours per day;
* The final specs will be in accordance with the specs on the product .

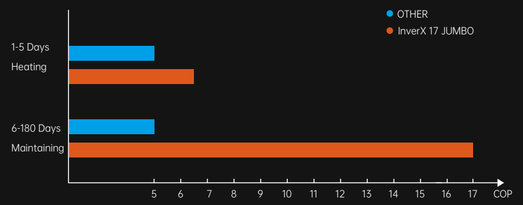
INVERX17 Vertical SPECS R32

Model	IXCR21V	IXCR26V	IXCR36V	IXCR46V	IXCR56V	IXCR66V	IXCR80V	IXCR80VT	IXCR110VT
Advised pool volume (m³)	15-30	20~40	25~50	30~60	40~75	50~100	65~120	65~120	90~160
Operating air temperature (℃)	-15~43								
Performance Condition: Air 26℃, Water 26℃, Humidity 80%									
Heating capacity (kW) in Turbo mode	9.0	11.0	13.5	17.5	21.5	27.0	32.0	32.0	40.0
Heating capacity (kW) in Smart mode	7.5	9.0	11.3	14.5	18.0	23.0	27.5	27.5	35.0
COP in Smart mode	7.6	7.8	7.9	8.0	7.5	8.0	7.6	7.6	7.5
COP	15.5~7.2	15.4~7.1	15.6~7.0	17.0~6.7	16.0~6.5	15.3~7.1	16.3~6.5	16.3~6.5	16.0~6.6
COP at 50% capacity	11.5	11.5	11.8	12.1	12.0	11.6	11.5	11.5	11.4
Performance Condition: Air 15℃, Water 26℃, Humidity 70%									
Heating capacity (kW) in Turbo mode	6.0	7.5	9.0	12.0	14.5	18.0	22.0	22.0	28.5
Heating capacity (kW) in Smart mode	5.0	6.3	7.5	10.0	12.0	15.0	18.5	18.5	24.5
COP in Smart mode	5.0	5.1	5.1	5.0	5.0	5.1	5.5	5.5	5.3
COP	7.5~4.6	7.2~4.5	7.5~4.6	8.0~4.6	7.6~4.5	7.5~4.9	8.0~5.0	8.0~5.0	7.9~4.8
COP at 50% capacity	6.8	6.6	6.7	6.9	7.0	6.5	7.0	7.0	6.9
Performance Condition: Air 35℃,Water 28℃, Humidity 80%									
Cooling capacity (kW) (optional)	3.8	4.5	5.8	7.1	8.2	12.0	14.0	14.0	16.5
Sound pressure at 1m dB(A)	38.1~45.2	38.8~46.5	38.8~47.9	42.2~48.6	43.1~52.1	41.0~52.9	43.6~53.8	43.6~53.8	42.8~54.0
Sound pressure of 50% capacity at 1m dB(A)	39.0	39.0	41.9	44.3	45.2	45.3	46.7	46.7	46.9
Sound pressure at 10m dB(A)	18.1~35.2	18.8~26.5	18.8~27.9	22.2~28.6	23.1~32.1	21.0~32.9	23.6~33.8	23.6~33.8	22.8~34.0
Compressor	Twin-rotary Mitsubishi DC-inverter								
Heat Exchanger	Spiral Titanium Tube in PVC								
Casing	Aluminum-alloy Casing								
Power supply	230V~/1Ph/50Hz							400V 3N~, 50Hz	
Rated input power at air 15℃ (kW)	0.15~1.31	0.17~1.66	0.21~1.95	0.26~2.51	0.33~3.08	0.42~3.67	0.46~4.4	0.46~4.4	0.60~5.94
Rated input current at air 15℃ (A)	0.65~5.70	0.74~7.21	0.91~8.48	1.14~10.9	1.43~13.4	1.82~15.9	2.01~19.1	0.66~6.35	0.87~8.57
Advised water flux (m³/h)	2~4	2~4	3~4	4~6	6.5~8.5	8~10	10~12	10~12	12~18
Net Dimension LxWxH (mm)	799x432*650	710x753x693	710x753x693	710x775x693	710x775x693	710x775x743	729x955x943	729x955x943	845x955x943
Net weight (kg)	49	61	66	71	77	95	110	117	141
Qty per 20'FT / 40'HQ (sets)	90/195	36/123	36/123	36/123	36/123	36/82	30/66	30/66	24/48

* The advised pool volume indicated applies under following conditions: Swimming pool is well covered; system runs at least 15 hours per day;
* The final specs will be in accordance with the specs on the product .

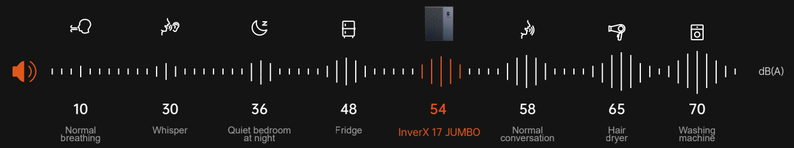
17x Energy Saving

COP 17 : 1kW Input = 17kW Heat in Return



15 Times Quieter

Sound Pressure Lower to 54 dB(A)



Warm Your Pool at -20°C

-20°C 43°C

INVERX 17 JUMBO

Self-Developed Control System

17X Saving

0 Compressor Noise

-20°C Operation

TurboSilence

INVERX17 JUMBO SPECS R32

Model	JBCR150T	JBCR300T
Advised pool volume (m³)	130~260	260~520
Operating air temperature (℃)	-20~43	
SCOP	9.0	9.2
Performance Condition: Air 26℃, Water 26℃, Humidity 80%		
Heating capacity (kW) in Turbo mode	60.0	120.0
Heating capacity (kW) in Smart mode	50.0	100.0
COP in Smart mode	8.1	7.9
COP	17.0~6.5	16.1~6.5
COP at 50% capacity	11.1	11.0
Performance Condition: Air 15℃, Water 26℃, Humidity 70%		
Heating capacity (kW) in Turbo mode	42.0	82.0
Heating capacity (kW) in Smart mode	35.0	68.0
COP in Smart mode	5.7	5.2
COP	8.0~4.7	7.5~4.8
COP at 50% capacity	7.0	6.8
Performance Condition: Air 7℃, Water 26℃, Humidity 90%		
Heating capacity (kW) in Turbo mode	32.5	62.0
Heating capacity (kW) in Smart mode	27.0	52.0
COP in Smart mode	4.8	4.0
COP in Turbo mode	4.0	3.7
Performance Condition: Air -15℃, Water 26℃, Humidity 70%		
Heating capacity (kW) in Turbo mode	21.0	42.0
COP	3.0	3.1
Performance Condition: Air 35℃, Water 28℃, Humidity 80%		
Cooling capacity (kW) (optional)	27.5	50.0
Sound pressure at 1m dB(A)	42.1~54.4	43.3~58.5
Sound pressure of 50% capacity at 1m dB(A)	44.8	46.9
Sound pressure at 10m dB(A)	22.1~34.4	23.3~38.5
Compressor	Twin-rotary Mitsubishi DC-inverter	
Heat Exchanger	Spiral Titanium Tube in PVC	
Casing	Aluminum-alloy	
Fan direction	Horizontal	
Power supply	400V 3N~, 50Hz	
Rated input power at air 15℃ (kW)	1.4~8.94	2.6~17.1
Rated input current at air 15℃ (A)	2.02~12.9	3.75~24.7
Advised water flux (m³/h)	20~25	30~40
Water pipe in-out size (mm)	75	90
Net dimension L × W × H (mm) (To be confirmed)	1545x458x1630	2108X640X2040
Net weight (kg)	217	476
Qty per 20'FT / 40'HQ (sets)	12/27	6/14

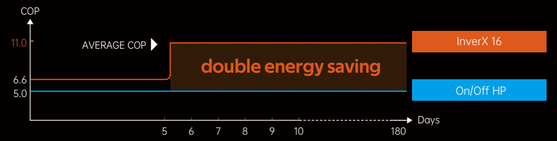
* The advised pool volume indicated applies under following conditions: Swimming pool is well covered; system runs at least 15 hours per day;
* The final specs will be in accordance with the specs on the product .

Full-inverter

Full-inverter technology drives the DC-inverter twin-rotary compressor hertz by hertz and runs the DC-inverter brushless fan motor round by round to achieve the optimal performance. At the beginning of the swimming season, Full-inverter pool heat pumps will heat the pool water to the set temperature at 100% heating capacity, then maintain the required temperature at an average of 30% power consumption, bringing up to 16 times energy saving.

16x Energy Saving

COP16: 1kW Input = 16kW Heat in Return
Saving 50% more than On/Off Heat Pump



10 Times Quieter

The sound pressure is as low as 46 dB(A) at 1 meter which is quieter than the fridge.

Built-in Wi-Fi & Fairland Smart Pool APP

Warm Your Pool at -7°C

-7℃ 43℃

INVERX16 SPECS R32

Model	IPHCR15	IPHCR20	IPHCR26	IPHCR33	IPHCR40	IPHCR45	IPHCR55	IPHCR70	IPHCR70T	IPHCR100T
Advised pool volume (m³)	15~30	20~40	25~45	30~55	35~65	40~75	50~95	65~120	65~120	90~160
Operating air temperature (℃)	-7~43									
Performance Condition: Air 26℃, Water 26℃, Humidity 80%										
Heating capacity (kW)	6.5	8.5	10.5	13.0	15.0	17.5	20.5	27.5	27.3	35.8
COP	14.7~6.0	14.8~7.4	15.0~7.4	15.4~7.3	15.5~6.7	15.8~6.2	15.3~6.0	15.4~6.5	15.3~6.5	16.1~5.8
COP at 50% capacity	10.5	10.9	11.0	11.0	10.9	11.1	10.7	11.2	11.2	10.9
Performance Condition: Air 15℃, Water 26℃, Humidity 70%										
Heating capacity (kW)	4.8	6.3	7.3	9.0	10.5	11.5	14.0	18.0	18.0	24.5
COP	7.3~4.5	7.4~5.0	7.7~4.8	7.7~4.8	7.8~4.6	7.8~4.5	7.7~4.4	8.1~4.8	8.1~4.8	8.0~4.7
COP at 50% capacity	6.3	6.6	6.8	6.8	6.6	6.4	6.3	6.8	6.8	7.0
Performance Condition: Air 35℃,Water 28℃, Humidity 80%										
Cooling capacity (kW) (optional)	3.0	4.0	4.6	5.6	6.8	7.8	10.0	12.2	12.2	16.5
Sound pressure at 1m dB(A)	37.8~47.2	38.8~48.2	38.6~49.9	42.1~50.7	41.3~55.0	43.1~53.8	40.9~54.2	43.5~54.9	43.5~54.9	42.6~54.7
Sound pressure of 50% capacity at 1m dB(A)	40.1	41.4	43.3	45.7	46.5	46.5	46.4	48.4	48.4	45.8
Sound pressure at 10m dB(A)	17.8~27.2	18.8~28.2	18.6~29.9	22.1~30.7	21.3~35.0	23.1~33.8	20.9~34.2	23.5~34.9	23.5~34.9	22.6~34.7
Compressor	Twin-rotary Mitsubishi DC inverter									
Heat Exchanger	Spiral Titanium Tube in PVC									
Casing	Aluminum-alloy									
Power supply	230V~/1Ph/50Hz								400V 3N~, 50Hz	
Rated input power at air 15℃ (kW)	0.13~1.06	0.17~1.2	0.19~1.5	0.23~1.81	0.27~2.2	0.30~2.6	0.36~3.18	0.55~3.8	0.55~3.9	0.61~5.2
Rated input current at air 15℃ (A)	0.56~4.60	0.74~5.2	0.83~6.5	1.00~7.87	1.17~9.6	1.3~11.3	1.57~13.8	2.4~16.5	0.79~5.6	0.88~7.4
Max input current (A)	7.5	8.5	10.0	12.0	13.5	15.0	17.0	20.0	7.0	9.5
Advised water flux (m³/h)	2~4	2~4	3~4	4~6	5~7	6.5~8.5	8~10	10~12	10~12	12~18
Net dimension L × W × H (mm)	894×359×648	894×359×648	894×359×648	954×359×648	954×359×648	954×429×648	954×429×755	1084×429×948	1084×429×948	1154×539×948
Net weight (kg)	42	45	49	50	52	63	68	90	93	120
Qty per 20'FT / 40'HQ (sets)	102/216	102/216	102/216	90/198	90/198	78/165	52/165	48/100	48/100	34/72

* The advised pool volume indicated applies under following conditions: Swimming pool is well covered; system runs at least 15 hours per day;
* The final specs will be in accordance with the specs on the product .

Full-inverter Dehumidifier

The only “Full-inverter” dehumidifier in the pool industry

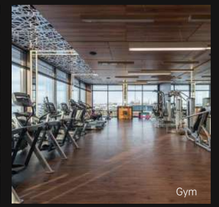
10 Times Quieter than Traditional On/Off Dehumidifier

Sound pressure lower to 38.3dB(A) at 1 meter

2 Times Energy Saving

Average DER4.3 (Air 30°C/RH 80%)

Applications



DEHUMIDIFIER

Self-Developed Control System

2X Saving

10x Quieter

Full-inverter

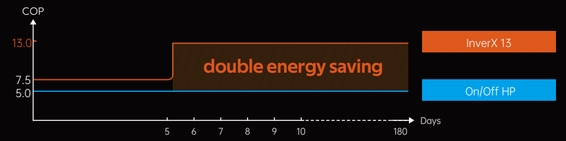
INVERTER-PLUS DEHUMIDIFIER SPECS R32

Model	IDHR35	IDHR45	IDHR60	IDHR96	IDHR120
Advised pool surface （㎡）	≤10	≤15	≤25	≤40	≤50
Advised room size （㎡）	40~80	50~100	60~120	90~180	120~240
Operating air temperature (℃)			10~38		
Capacity（l/h）(Air 30℃，RH 80%)	1.5	2.0	2.5	4.0	5.0
DER (l/h.kW)（Air 30℃，RH 80%)	4.20~3.50	4.10~3.70	4.00~3.40	4.53~4.05	4.50~3.68
Capacity（l/h）(Air 30℃，RH 70%)	1.25	1.7	2.1	3.3	4.2
DER (l/h.kW)（Air 30℃，RH 70%)	3.34~3.10	3.34~3.20	3.34~3.00	4.00~3.50	3.86~3.25
Capacity (l/h) (Air 30℃，RH 60%)	1	1.36	1.7	2.6	3.4
DER (l/h.kW) (Air 30℃，RH 60%)	2.8~2.4	2.8~2.5	2.65~2.45	3.2~2.9	3.1~2.7
Electric heating optional (kW)	/	/	1.3	2.1	2.1
Rated power（kW）(Air 30℃，RH 80%)	0.10~0.45	0.11~0.55	0.11~0.73	0.17~0.99	0.22~1.36
Rated current（A）(Air 30℃，RH 80%)	0.48~1.96	0.48~2.39	0.48~3.17	0.74~4.30	0.96~5.91
Power supply			230V~/1Ph/50Hz		
Sound pressure at 1m dB(A)	34.9~41.4	35.5~43.8	38.3~45.6	40.3~45.8	39.9~46.4
Air flow （m³/h)	600	600	600	1000	1200
Net dimension L × W × H (mm)	1010×236×713	1190×236×713	850×291×770	1120×291×770	1220×291×770
Net weight (Kg)	52	62	53	68	72
Qty per 20'FT / 40'HQ (sets)	80/252	64/216	84/258	60/195	58/189

* The final specs will be in accordance with the specs on the product.

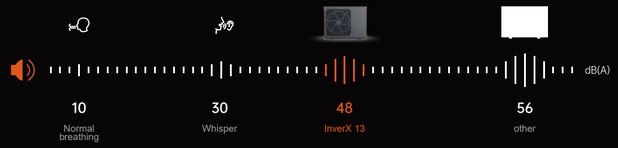
13x Energy Saving

COP 13: 1kW Input = 13kW Heat in Return



8 Times Quieter

Average noise level 48dB(A)



Plug & Play

INVERX13

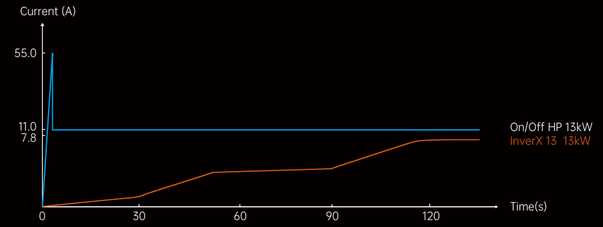
13X Saving

8x Quieter

Full-inverter

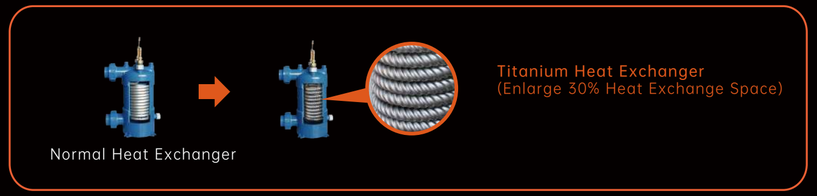
Soft Start

When the InverX13 is turned on, the current will start from 0(A) and go up slowly to the rated current in 2 minutes. Less burden on the electricity system.



(e.g. 13kW at Air 26°C/ Water 26°C/ Humidity 80%)

Higher Efficiency Heat Exchanger



INVERX13 SPECS R32

Model	NPCR06	NPCR08	NPCR10	NPCR12	NPCR14	NPCR17	NPCR20
Advised pool volume (m³)	10~25	18~35	20~40	25~45	30~50	35~65	45~80
Operating air temperature (℃)				0~43			
Performance Condition: Air 26℃, Water 26℃, Humidity 80%							
Heating capacity (kW)	6.0	8.5	10.0	11.5	13.5	17.5	20.0
COP	10.3~5.6	12.1~5.6	12.8~5.8	13.1~5.8	13.8~6.7	12.9~6.6	13.6~6.5
COP at 50% capacity	8.6	9.5	10	10.2	10.8	10.1	10.5
Performance Condition: Air 15℃, Water 26℃, Humidity 70%							
Heating capacity (kW)	4.3	6.2	7.1	8.2	9.6	12.4	14.2
COP	6.2~4	6.4~4	6.7~4.1	6.9~4.1	7.2~4.8	6.8~4.7	7.2~4.6
COP at 50% capacity	5.3	5.8	6.1	6.3	6.6	6.2	6.4
Performance Condition: Air 35℃,Water 28℃, Humidity 80%							
Cooling capacity (kW) (Optional)	2.3	3.2	3.8	4.4	5.1	6.7	7.6
Sound pressure at 1m dB(A)	39.2~49.8	40.1~51.5	40.8~52.0	41.0~53.1	41.9~53.9	45.2~56.3	45.3~57.1
Sound pressure of 50% capacity at 1m dB(A)	42.5	43.7	44.2	45.5	48.0	48.7	49.6
Sound pressure at 10m dB(A)	19.2~29.8	20.1~31.5	20.8~32.0	21.0~33.1	21.9~33.9	25.2~36.3	25.3~37.1
Compressor	Twin-rotary DC inverter						
Heat Exchanger	Spiral Titanium Tube in PVC						
Casing	Aluminum-alloy Casing						
Power supply	230V~/1Ph/50Hz						
Rated input power at air 15℃ (kW)	0.14~1.06	0.19~1.55	0.21~1.73	0.24~1.99	0.27~1.99	0.37~2.64	0.39~3.08
Rated input current at air 15℃ (A)	0.61~4.61	0.83~6.74	1.22~5.56	1.43~6.96	1.61~8.05	2.00~10.6	2.00~10.6
Advised water flux (m³/h)	2~3	3~4	3~4	3~4	4~6	6.5~8.5	8~10
Net Dimension L × W × H (mm)	682×359×598	744×359×648	864×359×648	864×359×648	864×359×648	954×359×648	954×359×748
Net weight (kg)	34	42	46	47	49	60	68
Qty per 20'FT / 40'HQ (sets)	126/270	114/252	102/216	102/216	102/216	90/198	60/198

* The advised pool volume indicated applies under following conditions: Swimming pool is well covered; system runs at least 15 hours per day;
* The final specs will be in accordance with the specs on the product .

CE

TurboSilence Failure Rate < 0.24%

Full-inverter Failure Rate < 0.1%

QC SYSTEM

Pursue 0% Failure Rate

BEFORE PRODUCTION

- Persist in adopting high-quality components for over 20 years
- 8 hours high-temp aging running test and 100% QC on whole control system
- High-rate random inspection for all components

DURING PRODUCTION

- Silver welding (5% silver) for more reliable refrigerant circuit system
- 5 times refrigerant leakage tests
- Complete electrical safety test

AFTER PRODUCTION

- 45 mins running test for every unit
- Drying/cleaning/anti-rust treatment for every unit
- 1% random inspection for mass production in the lab

24 Hrs
Failures Response

48 Hrs
Solutions

72 Hrs
Spare Parts Express

24 Hrs/7d
Online Service

After-Sales Service Technical Support

Pursue the Ultimate Customer Experience

Europe Service
France Branch: 105, Rue de Mourettes 26000 VALENCE
Mobile: +33 (0) 613 352 848
E-mail: pierre@fairlandservices.fr