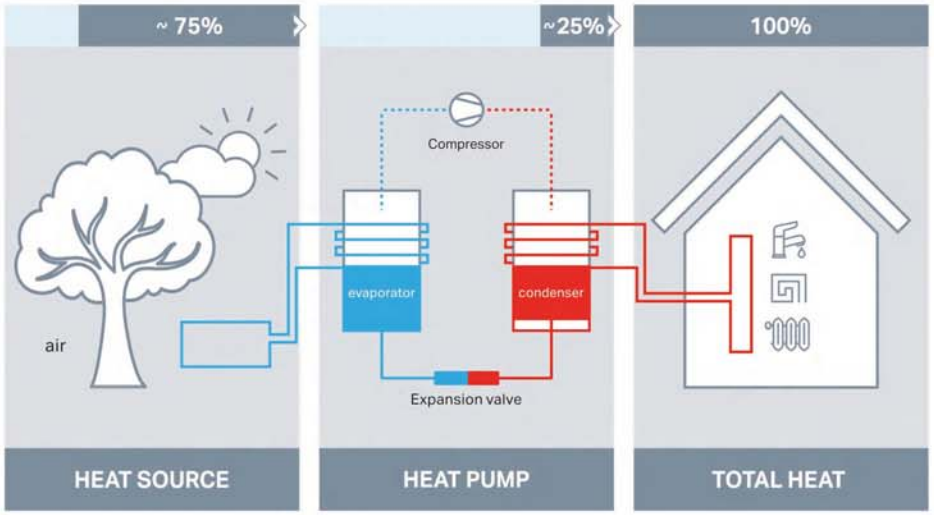
Heat Pump:
a Renewable Energy Source

The sun gives many energy to the earth, most of the energy are stored in the air, water and ground. Air source heat pump moves free energy from the air and uses it to heat and cool the building, or prepare domestic hot water. It is a cheap, ecological and reliable heat source, which can be used by anyone.

Air source heat pump draws heat from outdoor to your home, this is different with a gas or oil furnace, because they don't actually produce any heat by burning fuel , electricity is not be used to produce heat but drive a heat pump, so it can save much energy consumption and reduce your energy bills.

Data from Europe shows that all the heat pumps connected by the end of 2022 avoided over 54 million tons of CO2, as more and more countries are scrapping fossil fuel heaters, heat pumps, powered with energy from clean and renewable sources, have the potential to reduce total Co2 emissions by at least 500 million tons by 2030.



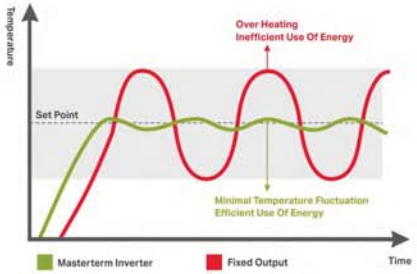
DC Inverter Technology

DC INVERTER COMPRESSOR

INVERTER CIRCULATION PUMP

DC FAN MOTOR

Variable-capacity heat pumps with dc inverter technology allow for higher compressor heating speeds at lower outdoor air temperatures, without putting extra strain on the unit or potentially causing long-term damage to the compressor. These are true cold-climate heat pumps designed to deliver 100% of heating capacity. This innovation means homeowners in all climates can experience the benefits of INVERTER-driven, variable-capacity heat pumps listed below:



CONSISTENT TEMPERATURE

No Ups and Downs, conventional on/off heat pumps experience uncomfortable and extreme temperature fluctuations, while inverter-driven heat pumps self-adjust providing consistent temperature no matter how the outdoor temperature changes.

CONSUME ONLY THE ENERGY YOU NEED

INVERTER-driven deliver only the amount of heat needed to achieve the desired temperature – no more, no less.

HEATS UP QUICKLY

It takes traditional systems a very long time to reach the desired temperature, while the high rotation speeds of INVERTER-driven systems allow for quick and efficient heating and cooling.

ENERGY USE IS EVEN AND STEADY

Every time the compressor turns on in a traditional unit, energy consumption surges. On startup, variable-capacity heat pumps use less current, avoiding spikes in energy usage.

3 in 1 HEATING, COOLING AND DHW

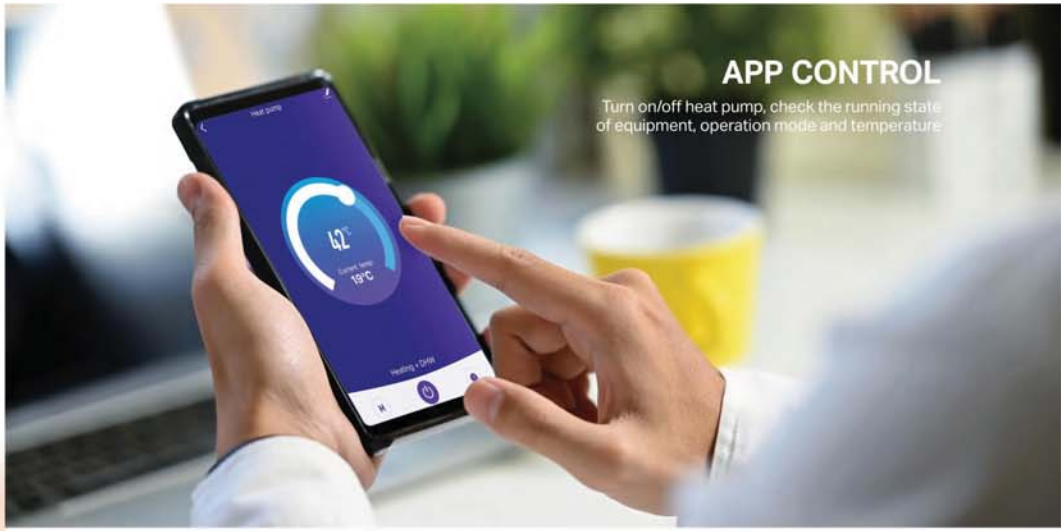
Total heat solution - Heating, cooling and domestic hot water in one systemGT heat pump is an integrated system that provides space heating and cooling as well as domestic hot water, offering a complete, all-year-round solution which can remove the need for traditional gas or oil boilers, or work together with them.

WINTER HEATING

SUMMER AIR CONDITIONING

DOMESTIC HOT WATER

Smart Control



Touch Display

SET AND CHECK RUNNING PARAMETERS IN REAL TIME

CASCADE OPERATION

SELECT OPERATION MODE

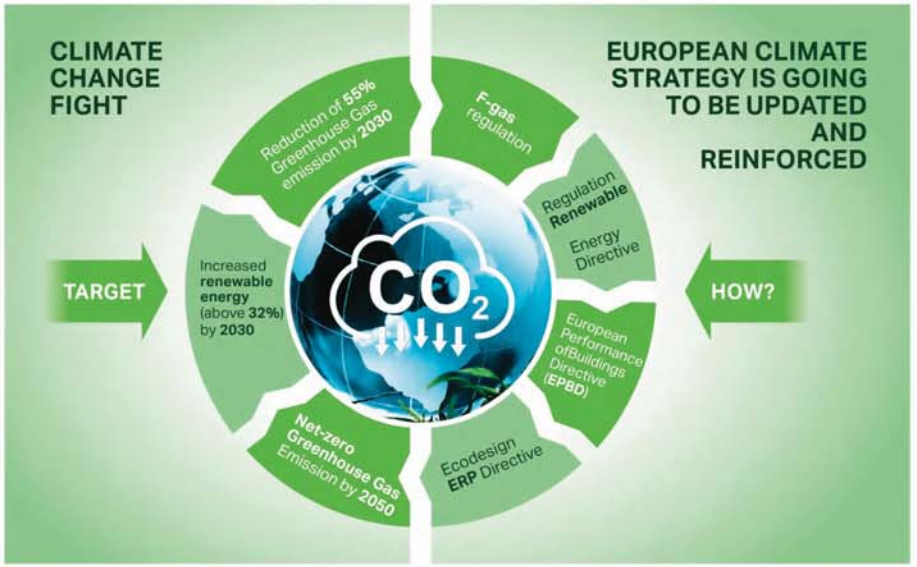
BUILT-IN WIFI MODULE

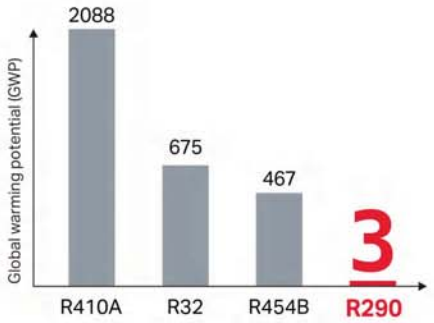
DISPLAY FAULT INFORMATION

MODBUS PROTOCOL

R290
ENVIRONMENTALLY FRIENDLY

Reversible Heat Pump With Natural Refrigerant





RELIABLE CHOICE

- Implementation of the highest safety standard

SMART CHOICE

- No carbon tax
- Pushed by incentivation schemes
- Future-proof natural solution. On going HFC phase-out

R290
ENVIRONMENTALLY FRIENDLY

THINK ABOUT TOMORROW

R290 Refrigerant

R290 refrigerant is a naturally occurring refrigerant, making it environmentally friendly, it has zero Ozone Depletion Potential (ODP=0), meaning it doesn't contribute to the depletion of the ozone layer; And it has a low Global Warming Potential (GWP=3), meaning it doesn't contribute significantly to global warming. It is the perfect solution for renovations, where a high water outlet temperature is required.

ENVIRONMENTALLY FRIENDLY

ODP=0
Neutral for the Ozone Layer

GWP=3
Low Impact on Global Warming

- HIGH WATER OUTLET TEMPERATURE (75°C)
- ENERGY CLASS A+++ / A++ 35°C / 55°C
- LOW NOISE LEVEL
- WIFI CONTROL
- INTELLIGENT DEFROST
- INVERTER TECHNOLOGY

SUSTAINABLE CHOICE

R290 monoblock DC inverter heat pump

3 in 1 HEATING, COOLING AND DHW

Model		GT-SKR020KBDC-M290	GT-SKR030KBDC-M290	GT-SKR040KBDC-M290	GT-SKR040KBDC-M290T	GT-SKR050KBDC-M290T
						
Heating at A7/W35						
Heating capacity (min~max)	KW	6.40 (2.83~8.00)	8.30 (3.65~10.38)	11.60 (5.10~14.50)	12.00 (5.28~15.00)	16.30 (8.80~21.20)
Power input (min~max)	KW	1.47 (0.65~1.84)	1.93(0.85~2.42)	2.75 (1.21~3.44)	2.90 (1.28~3.63)	3.69(1.99~4.80)
COP	W/W	4.34(3.03~5.21)	4.30(3.01~5.16)	4.22(3.03~5.10)	4.15(3.0~5.0)	4.42(3.1~5.3)
Heating at A2/W35						
Heating capacity (min~max)	KW	5.80 (2.55~7.25)	7.11(3.13~8.89)	10.43 (4.59~13.04)	10.30 (4.53~12.88)	14.31 (6.86~18.60)
Power input (min~max)	KW	1.60 (0.71~2.00)	2.06 (0.91~2.58)	2.76(1.22~3.45)	2.85(1.25~3.56)	3.67(1.98~4.84)
COP	W/W	3.60(2.52~4.32)	3.45(2.48~4.30)	3.78 (2.65~4.54)	3.61(2.53~4.40)	3.90(2.73~4.68)
Heating at A7/W55						
Heating capacity (min~max)	KW	5.75 (2.53~7.19)	7.70(3.40~9.63)	11.08 (4.88~13.85)	11.43 (5.03~14.29)	14.71 (7.94~19.13)
Power input (min~max)	KW	2.03 (0.89~2.54)	2.70(1.19~3.38)	3.82 (1.68~4.78)	4.07 (1.79~5.09)	5.02(2.71~6.53)
COP	W/W	2.83(2.3-3.8)	2.85(2.00-3.42)	2.90(2.03-3.48)	2.81(2.02-3.41)	2.93 (2.05-3.52)
Heating at A2/W55						
Heating capacity (min~max)	KW	5.14 (2.27~6.43)	6.72 (2.96~8.40)	9.61 (4.23~12.00)	9.70 (4.59~12.63)	13.81 (7.45~17.95)
Power input (min~max)	KW	2.06(0.91~2.58)	2.71 (1.20~3.39)	3.74(1.65~4.68)	3.99(1.76~4.84)	4.93(2.66~6.41)
COP	W/W	2.45(2.0-3.45)	2.48 (2.0-3.6)	2.57 (2.2-3.7)	2.43(2.0-3.6)	2.80(2.2-3.9)
Cooling at A35/W7						
Cooling capacity (min~max)	KW	3.70 (2.22~5.92)	6.20 (3.40~8.10)	9.30(5.15~12.09)	9.50(5.22~12.35)	13.30 (7.10~17.3)
power input (min~max)	KW	1.32 (0.79~2.11)	2.20(1.21~2.86)	3.25 (1.76~4.16)	3.28 (1.79~4.20)	4.60 (2.53~5.98)
EER	W/W	2.80(2.02-3.36)	2.80(2.00-3.42)	2.85(2.05-3.42)	2.80(2.00-3.50)	2.90(2.10-3.48)
SCOP						
SCOP (TWW for 35°C class)	N/A	4.46	4.48	4.57	4.62	4.50
Energy lable(TWW at 35°C)	N/A	A+++	A+++	A+++	A+++	A+++
SCOP (TWW for 55°C class)	N/A	3.58	3.57	3.66	3.60	3.62
Energy lable(TWW at 55°C)	N/A	A++	A++	A++	A++	A++
Power supply	V/Ph	220~240/1/50	220~240/1/50	220~240/1/50	380~415/3N/50	380~415/3N/50
Compressor	N/A	DC Inverter	DC Inverter	DC Inverter	DC Inverter	DC Inverter
Fan motor	N/A	DC	DC	DC	DC	DC
Water circulation pump	N/A	Inverter	Inverter	Inverter	Inverter	Inverter
Refrigerant	N/A	R290 (700g)	R290(1100g)	R290 (1200g)	R290 (1200g)	R290(1600g)
CO2 equivalent	T	0.0021	0.0033	0.0036	0.0036	0.0048
Refrigerant regulation	N/A	Electronic expansion valve				
Heat exchanger type	N/A	Brazed plate heat exchanger				
Water connection	inch	1	1	1	1	1
Norminal water flow	m3/h	1.4	1.8	2.7	2.7	3.6
Operating outdoor temperature	°C	-25~43	-25~43	-25~43	-25~43	-25~43
Max heating water temperature	°C	75	75	75	75	75
Min cooling water temperature	°C	10	10	10	10	10
Sound level	dB(A)	60	63	67	67	73
Net weight	kg	80	85	99	99	135
Dimension	mm	1100*460*795	1100*460*795	1115*470*1020	1115*470*1020	1165*470*1280

Test condition:
1. A7/W35: outdoor air temperature 7°C DB/6°C WB, water inlet/outlet temperature 30°C/35°C
2. A2/W35: outdoor air temperature 2°C DB/1°C WB, water inlet/outlet temperature 30°C/35°C
3. A7/W55: outdoor air temperature 7°C DB/6°C WB, water inlet/outlet temperature 47°C/55°C
4. A2/W55: outdoor air temperature 2°C DB/1°C WB, water inlet/outlet temperature 47°C/55°C
5. A35/W7: outdoor air temperature 35°C , water inlet/outlet temperature 12°C/7°C

R32
ENVIRONMENTALLY
FRIENDLY

R32 Refrigerant

R32 gas has an ODP value (Ozone Removal Potential) equal to zero: this means that if it is released into the atmosphere it does not damage the ozone layer in any way. And R32 gas has a much lower GWP index than R410A (675 for R32A versus 2088 for R410A), lower environmental impact.

ENVIRONMENTALLY FRIENDLY

ODP=0
Neutral for the ozone layer

GWP=675
Low impact on global warming

- **HIGH HEATING OUTPUT AT LOW AMBIENT AIR TEMPERATURE.**
- **ENERGY CLASS A+++ / A++ 35°C / 55°C**
- **LOW NOISE LEVEL**
- **WIFI CONTROL**
- **INTELLIGENT DEFROST**
- **INVERTER TECHNOLOGY**

R32 Monoblock DC Inverter Heat Pump

3 in 1 HEATING, COOLING AND DHW

Model		GT-SKR020KBDC-M32	GT-SKR030KBDC-M32	GT-SKR040KBDC-M32	GT-SKR040KBDC-M32T	GT-SKR050KBDC-M32
						
Heating at A7/W35						
Heating capacity (min~max)	KW	6.80 (3.36~7.93)	9.00 (4.50~10.66)	12.80 (6.05~14.30)	12.80 (6.05~14.30)	17.00 (8.60~20.30)
Power input (min~max)	KW	1.62 (0.82~1.91)	2.05 (1.07~2.50)	2.97 (1.51~3.52)	2.97 (1.51~3.52)	3.86 (1.91~4.45)
COP	W/W	4.20 (3.3~5.4)	4.40 (3.3~5.3)	4.30 (3.2~5.2)	4.30(3.2~5.2)	4.40 (3.3~5.5)
Heating at A2/W35						
Heating capacity (min~max)	KW	6.25 (2.92~7.42)	8.32 (3.74~9.52)	11.80 (5.30~13.30)	11.80 (5.30~13.30)	15.70 (7.37~18.80)
Power input (min~max)	KW	1.60 (0.82~1.96)	2.03 (1.02~2.45)	2.95 (1.45~3.50)	2.95(1.45~3.50)	3.84 (1.89~4.56)
COP	W/W	3.90 (2.3~4.6)	4.10 (2.4~4.6)	4.00 (2.2~4.4)	4.00(2.2~4.4)	4.10 (2.4~4.8)
Cooling at A35/W7						
Cooling capacity (min~max)	KW	5.00 (2.75~6.5)	6.50 (3.58~8.45)	10.20 (5.61~13.26)	10.20(5.61~13.26)	12.90 (7.10~18.7)
power input (min~max)	KW	1.78 (1.07~2.58)	2.28 (1.37~3.31)	3.64 (2.18~5.28)	3.64 (2.18~5.28)	4.45 (2.67~6.45)
EER	W/W	2.80 (2.4-3.15)	2.85 (2.45-3.15)	2.80 (2.4-3.10)	2.80(2.4-3.10)	2.90 (2.45-3.20)
SCOP						
SCOP (TWW for 35°C)	N/A	4.47	4.50	4.59	4.50	4.54
Energy lable(TWW at 35°C)	N/A	A+++	A+++	A+++	A+++	A+++
Power supply	V/Ph/Hz	220~240/1/50	220~240/1/50	220~240/1/50	380~415/3/50	380~415/3/50
Compressor type	N/A	DC Inverter	DC Inverter	DC Inverter	DC Inverter	DC Inverter
Fan type	N/A	DC	DC	DC	DC	DC
Refrigerant	N/A	R32 (0.75kg)	R32 (1.8kg)	R32 (2.0kg)	R32 (2.0kg)	R32 (2.2kg)
Refrigerant regulation	N/A			Electronic expansion valve		
Heat exchanger type	N/A			Brazed plate heat exchanger		
Water connection	Inch	1	1	1	1	1
Norminal water flow	m3/h	1.4	1.8	2.7	2.7	3.6
Operating outdoor temperature	°C	-20~43	-20~43	-20~43	-20~43	-20~43
Max heating water temperature	°C	60	60	60	60	60
Max.DHW temperature	°C	55	55	55	55	55
Min cooling water temperature	°C	10	10	10	10	10
Sound level	dB(A)	52	54	56	67	56
Degree of protection	N/A	IPX4	IPX4	IPX4	IPX4	IPX4
Net weight	kg	57	72	102	103	122
Dimension	mm	945*410*600	1010*410*795	1115*470*1020	1115*470*1020	1165*470*1280

Test condition:

1. A7/W35: outdoor air temperature 7°C DB/6°C WB, water inlet/outlet temperature 30°C/35°C
2. A2/W35: outdoor air temperature 2°C DB/1°C WB, water inlet/outlet temperature 30°C/35°C
3. A35/W7: outdoor air temperature 35°C , water inlet/outlet temperature 12°C/7°C

R32 split DC Inverter Heat Pump

3 in 1 HEATING, COOLING AND DHW

Model		GT-SKR020KBDC-S32	GT-SKR030KBDC-S32	GT-SKR040KBDC-S32	GT-SKR040KBDC-S32T	GT-SKR050KBDC-S32
						
Heating at A7/W35						
Heating capacity (min~max)	KW	6.80 (3.36~7.93)	9.00 (4.50~10.66)	12.80 (6.05~14.30)	12.80 (6.05~14.30)	17.00 (8.60~20.30)
Power input (min~max)	KW	1.62 (0.82~1.91)	2.05 (1.07~2.50)	2.97 (1.51~3.52)	2.97 (1.51~3.52)	3.86 (1.91~4.45)
COP	W/W	4.20 (3.3~5.4)	4.40 (3.3~5.3)	4.30 (3.2~5.2)	4.30(3.2~5.2)	4.40 (3.3~5.5)
Heating at A2/W35						
Heating capacity (min~max)	KW	6.25 (2.92~7.42)	8.32 (3.74~9.52)	11.80 (5.30~13.30)	11.80 (5.30~13.30)	15.70 (7.37~18.80)
Power input (min~max)	KW	1.60 (0.82~1.96)	2.03 (1.02~2.45)	2.95 (1.45~3.50)	2.95(1.45~3.50)	3.84 (1.89~4.56)
COP	W/W	3.90 (2.3~4.6)	4.10 (2.4~4.6)	4.00 (2.2~4.4)	4.00(2.2~4.4)	4.10 (2.4~4.8)
Cooling at A35/W7						
Cooling capacity (min~max)	KW	5.00 (2.75~6.5)	6.50 (3.58~8.45)	10.20 (5.61~13.26)	10.20(5.61~13.26)	12.90 (7.10~18.7)
power input (min~max)	KW	1.78 (1.07~2.58)	2.28 (1.37~3.31)	3.64 (2.18~5.28)	3.64 (2.18~5.28)	4.45 (2.67~6.45)
EER	W/W	2.80 (2.4-3.15)	2.85 (2.45-3.15)	2.80 (2.4-3.10)	2.80(2.4-3.10)	2.90 (2.45-3.20)
SCOP						
SCOP (TWW for 35°C)	N/A	4.47	4.50	4.59	4.50	4.54
Energy lable(TWW at 35°C)	N/A	A+++	A+++	A+++	A+++	A+++
Power supply	V/Ph/Hz	220~240/1/50	220~240/1/50	220~240/1/50	380~415/3/50	380~415/3/50
Compressor type	N/A	DC Inverter	DC Inverter	DC Inverter	DC Inverter	DC Inverter
Fan type	N/A	DC	DC	DC	DC	DC Inverter
Refrigerant	N/A	R32 (0.75kg)	R32 (1.8kg)	R32 (2.0kg)	R32 (2.0kg)	R32 (2.2kg)
Refrigerant regulation	N/A			Electronic expansion valve		
Heat exchanger type	N/A			Brazed plate heat exchanger		
Water connection	Inch	1	1	1	1	1
Norminal water flow	m3/h	1.4	1.8	2.7	2.7	3.6
Operating outdoor temperature	°C	-20~43	-20~43	-20~43	-20~43	-20~43
Max heating water temperature	°C	60	60	60	60	60
Max DHW temperature	°C	55	55	55	55	55
Min cooling water temperature	°C	10	10	10	10	10
Sound level	dB(A)	52	54	56	56	56
Degree of protection	N/A	IPX4	IPX4	IPX4	IPX4	IPX4
Net weight (outdoor unit)	kg	57	72	102	102	122
Net weight (indoor unit)	kg	21	22	22.5	23.5	23
Dimension (outdoor unit)	mm	945*410*600	1010*410*795	1115*470*1020	1115*470*1020	1165*470*1280
Dimension (indoor unit)	mm	460*230*635	460*230*635	460*230*635	460*230*635	460*230*635

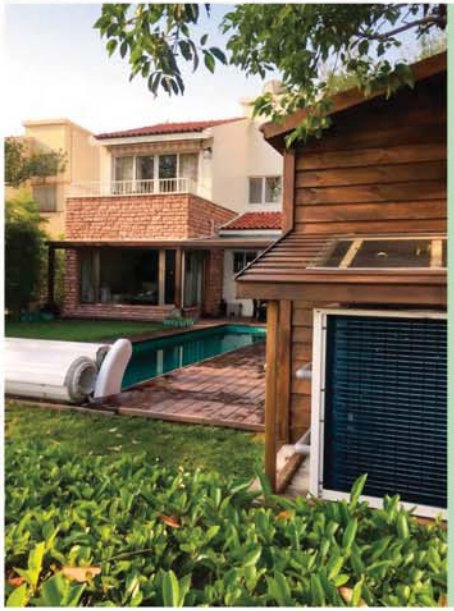
Test condition:

1. A7/W35: outdoor air temperature 7°C DB/6°C WB, water inlet/outlet temperature 30°C/35°C
2. A2/W35: outdoor air temperature 2°C DB/1°C WB, water inlet/outlet temperature 30°C/35°C
3. A35/W7: outdoor air temperature 35°C , water inlet/outlet temperature 12°C/7°C

Swimming Pool Heat Pump

R32
ENVIRONMENTALLY FRIENDLY

Extend your swimming season and swim all year round Allow your pool to stay consistently warm and comfortable to swim in Reduce heating times and save on running costs.



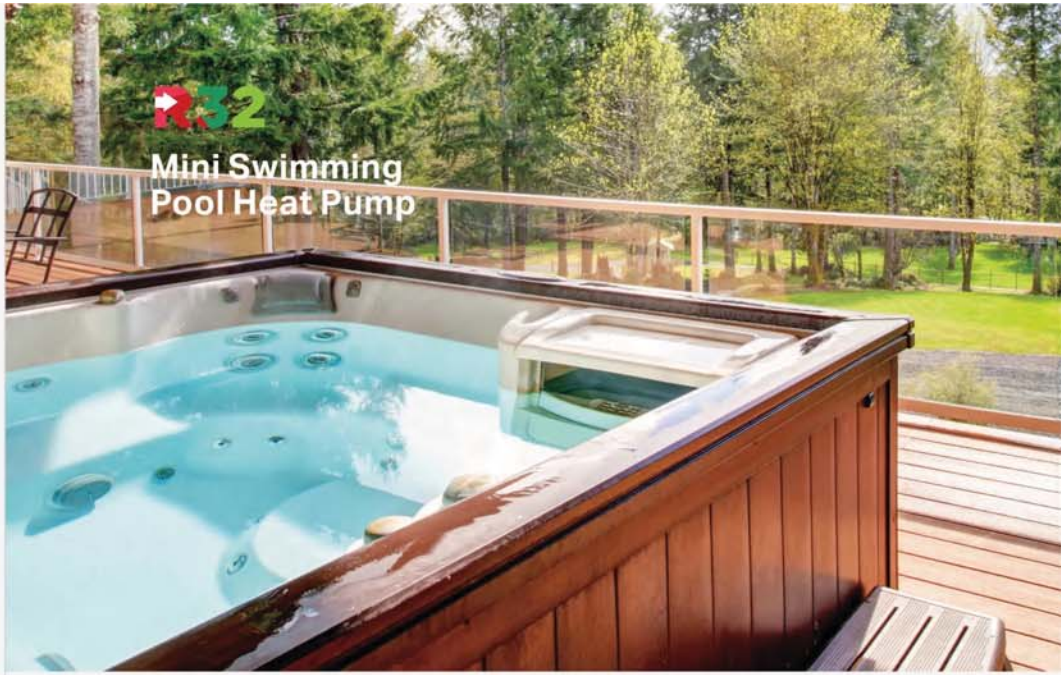
- FULL DC INVERTER TECHNOLOGY
- R32 REFRIGERANT
- WIRELESS WI-FI CONTROL WITH YOUR SMART PHONE
- LOWER OPERATING COSTS

DC Inverter Swimming Pool Heat Pump

Model		GT-SKR015Y-DCP-H32B	GT-SKR020Y-DCP-H32B	GT-SKR030Y-DCP-H32B	GT-SKR040Y-DCP-H32B
Heating at A24/W28					
Heating capacity	KW	5.20 (2.55~6.30)	7.00 (3.70~8.95)	11.60 (6.10~14.80)	15.80 (6.60~17.30)
Power input	KW	0.83 (0.42~1.02)	1.10 (0.60~1.48)	1.85 (1.10~2.50)	2.56 (1.27~2.95)
COP	W/W	6.26	6.36	6.27	6.17
Heating at A15/W28					
Heating capacity	KW	4.40 (2.15~5.2)	5.80 (3.10~7.50)	9.75 (5.05~12.45)	13.2 (5.50~14.50)
Power input	KW	0.82 (0.41~1.01)	1.10 (0.6~1.45)	1.85 (1.10~2.45)	2.51 (1.25~2.95)
COP	W/W	5.36	5.27	5.27	5.26
Cooling at A35/W26					
Cooling capacity	KW	4.15(2.15~5.3)	6.0 (3.32~7.65)	9.50 (5.05~12.45)	11.70 (6.40~14.00)
Power input	KW	1.10 (0.56~1.48)	1.61 (0.90~2.17)	1.85 (1.45~3.43)	3.18 (1.75~3.85)
EER	W/W	3.77	3.73	3.75	3.68
Power supply	V/Ph/Hz	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50
Compressor type	N/A	DC inverter	DC inverter	DC inverter	DC inverter
Fan type	N/A	DC fan motor	DC fan motor	DC fan motor	DC fan motor
Refrigerant	N/A	R32	R32	R32	R32
Heat exchanger	N/A	Titanium heat exchanger			
Water connection	Inch	2	2	2	2
Sound level	dB(A)	50	50	52	52
Max water temperature	℃	40	40	40	40
Outdoor operating temp.	℃	Min.: -10/Max.:+39			
Net weight	kg	64	77	112	115
Dimension (L*W*H)	mm	940*410*600	940*410*600	940*500*800	940*500*1000

Model		GT-SKR015Y-DCP-H32	GT-SKR020Y-DCP-H32	GT-SKR030Y-DCP-H32	GT-SKR040Y-DCP-H32
Heating at A24/W28					
Heating capacity	KW	5.20 (2.55~6.30)	7.00 (3.70~8.95)	11.60 (6.10~14.80)	15.80 (6.60~17.30)
Power input	KW	0.83 (0.42~1.02)	1.10 (0.60~1.48)	1.85 (1.10~2.50)	2.56 (1.27~2.95)
COP	W/W	6.26	6.36	6.27	6.17
Heating at A15/W28					
Heating capacity	KW	4.40 (2.15~5.2)	5.80 (3.10~7.50)	9.75 (5.05~12.45)	13.2 (5.50~14.50)
Power input	KW	0.82 (0.41~1.01)	1.10 (0.6~1.45)	1.85 (1.10~2.45)	2.51 (1.25~2.95)
COP	W/W	5.36	5.27	5.27	5.26
Cooling at A35/W26					
Cooling capacity	KW	4.15(2.15~5.3)	6.0 (3.32~7.65)	9.50 (5.05~12.45)	11.70 (6.40~14.00)
Power input	KW	1.10 (0.56~1.48)	1.61 (0.90~2.17)	1.85 (1.45~3.43)	3.18 (1.75~3.85)
EER	W/W	3.77	3.73	3.75	3.68
Power supply	V/Ph/Hz	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50
Compressor type	N/A	DC inverter	DC inverter	DC inverter	DC inverter
Fan type	N/A	DC fan motor	DC fan motor	DC fan motor	DC fan motor
Refrigerant	N/A	R32	R32	R32	R32
Heat exchanger	N/A	Titanium heat exchanger			
Water connection	Inch	2	2	2	2
Sound level	dB(A)	50	50	52	52
Max water temperature	℃	40	40	40	40
Outdoor operating temp.	℃	Min.: -10/Max.:+39			
Net weight	kg	64	77	112	115
Dimension (L*W*H)	mm	940*410*600	940*410*600	940*500*800	940*500*1000

Test condition:
A24/W28: Heating at air temperature (DB/WB) 24°C/19°C, water inlet/outlet temperature 26°C/*
A15/W28: Heating at air temperature (DB/WB) 15°C/12°C, water inlet/outlet temperature 26/28°C
A7/W28: Heating at air temperature (DB/WB) 7°C/6°C, water inlet/outlet temperature 26°C/*
A35/W7: Cooling at air temperature 35°C, water inlet/outlet temperature 26°C/*



R32 Mini Swimming Pool Heat Pump

Model		GT-SKR007Y-M
Heating at A24/W28		
Heating capacity	KW	3.30
Power input	KW	0.55
COP	W/W	6.00
Heating at A15/W28		
Heating capacity	KW	2.75
Power input	KW	0.52
COP	W/W	5.29
Power supply	V/Ph/Hz	220-240/1/50
Compressor type	N/A	Rotary
Fan type	N/A	Axial
Refrigerant	N/A	R32
Heat exchanger	N/A	Titanium heat exchanger
Water connection	Inch	1
Sound level	dB(A)	50
Max water temperature	℃	40
Outdoor operating temp.	℃	Min.: -7/Max.:+39
Net weight	kg	17
Dimension (L*W*H)	mm	400*315*450

Test condition:
A24/W28: Heating at air temperature (DB/WB) 24°C/19°C, water inlet/outlet temperature 26°C/*
A15/W28: Heating at air temperature (DB/WB) 15°C/12°C, water inlet/outlet temperature 26/28°C