

NOBUS
heat pumps

SWIMMING POOL
HEAT PUMP



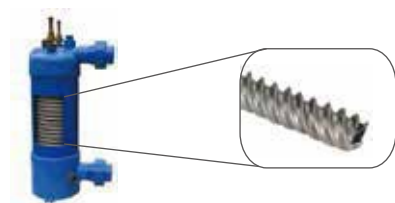
Swimming pool heat pump

General Features

Prolonged operating life

Spiral titanium tube heat-exchanger

- Titanium tube with PVC casing provides superior corrosion resistance.
- Spiral tube design, expand the surface area of the Titanium tube and water to provide heater transfer at a great rate.



Titanium tube heat-exchanger

Spiral Titanium tube

Operating reliability

- Multi-protections, including pressure protections, water flow protection, temperature protections.
- When there is malfunction happened, diagnosis will be automatically made and the result will be displayed in controller screen.
- Built-in automatic 4-way valve for defrost. (Except Mini PAC)

Plastic ABS cabinet

(For swimming pool HPs except ECO series)

- Plastic ABS panels, excellent weather resistance, pass 72 hours Weatherability Test.

Galvanized steel cabinet (For ECO series)

- Powder-coated panel for galvanized steel cabinet made of galvanized steel passes 1,000 hours Salt Spray Test.

Anti-UV cover as optional(Except Mini PAC)

- Anti-UV cover is made of silver plasters. The cover will provide products good protection during the idle period of the product.

Convenient installation

- It is very convenience that only inlet/outlet water pipes and electricity cables need to connect.
- LCD controller with large screen as standard, and 15m shield cable as optional.
- Inlet and outlet water pipe connectors, drainage pipe for condensing water and rubber gaskets for unit fixing as accessories.(Except Mini PAC)

Applications sketch



High efficiency



Galvanized steel cabinet



Titanium heat-exchanger



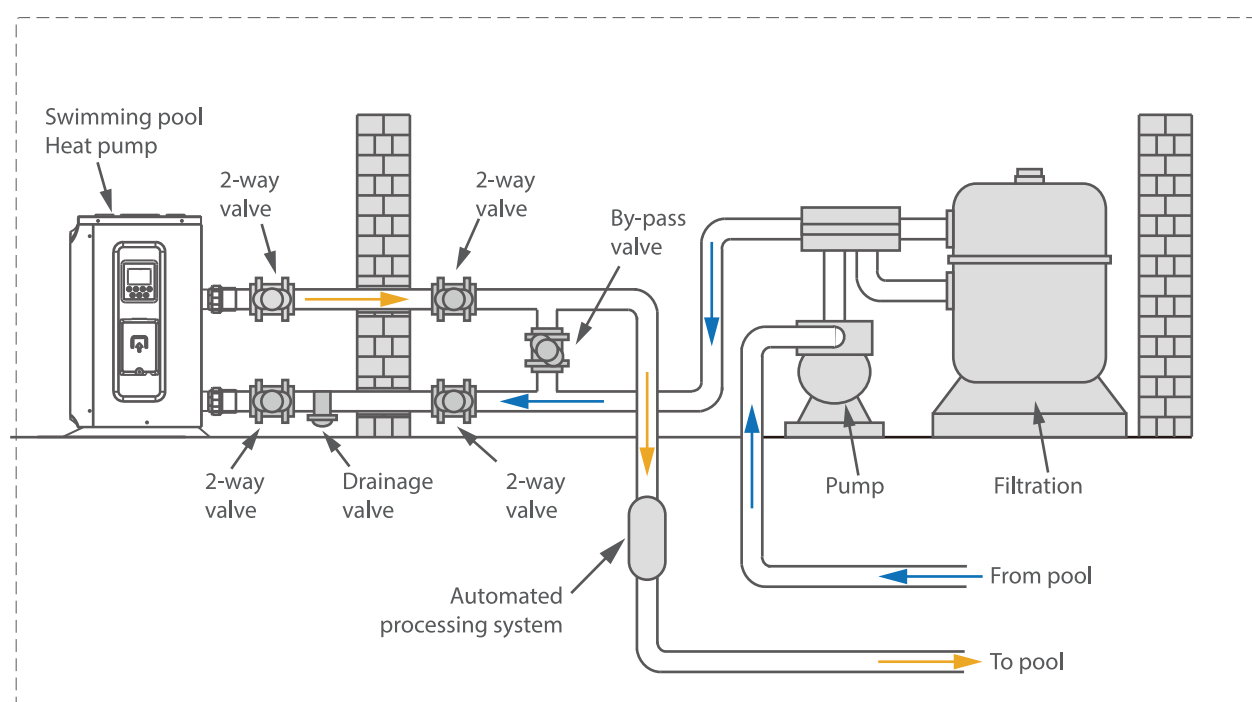
Plug & play



Product Lineups

Swimming Pool Heat Pumps

Series	Heating capacity range (kW)					
	3.0	10.0	15.0	20.0	25.0	30.0
Wave inverter series						
	R32	5.3				31.7



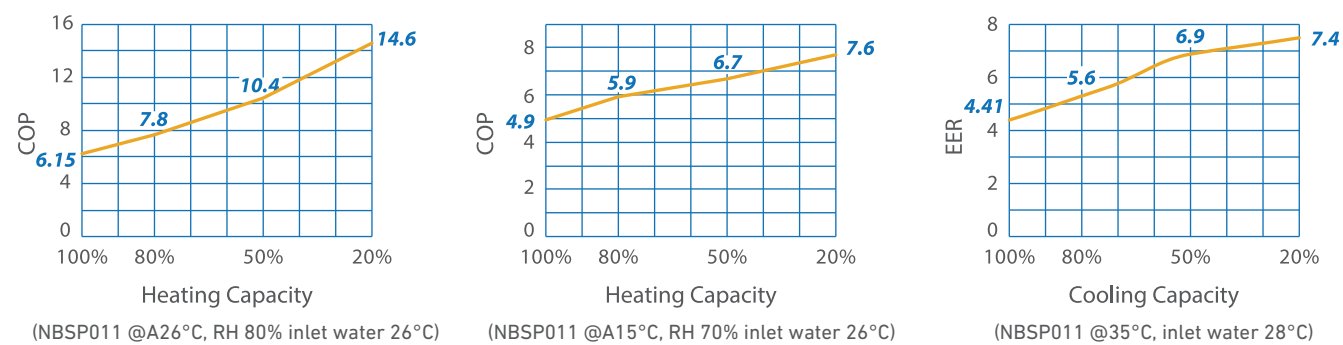
- HE High efficiency
- Plastic cabinet
- Pressure gauge
- Anti-UV cover
- Titanium heat-exchanger
- Wi-Fi



Save energy and money with high efficient running

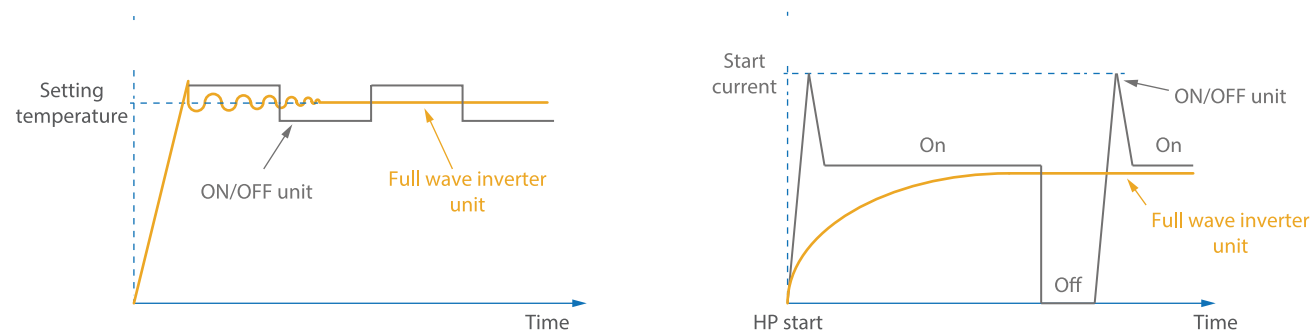
- Well-known brand compressor: GMCC, twin-rotary (except size 031 & 032), DC inverter technology, more efficient.
- High efficient brushless DC motor running with low noise.
- Thanks to electronic expansion valve, more accurate for refrigerant control.
- High COP/EER performance to save energy and money.

Notes: The swimming pool capacity is 45m³, and the temperature keeps 26°C.

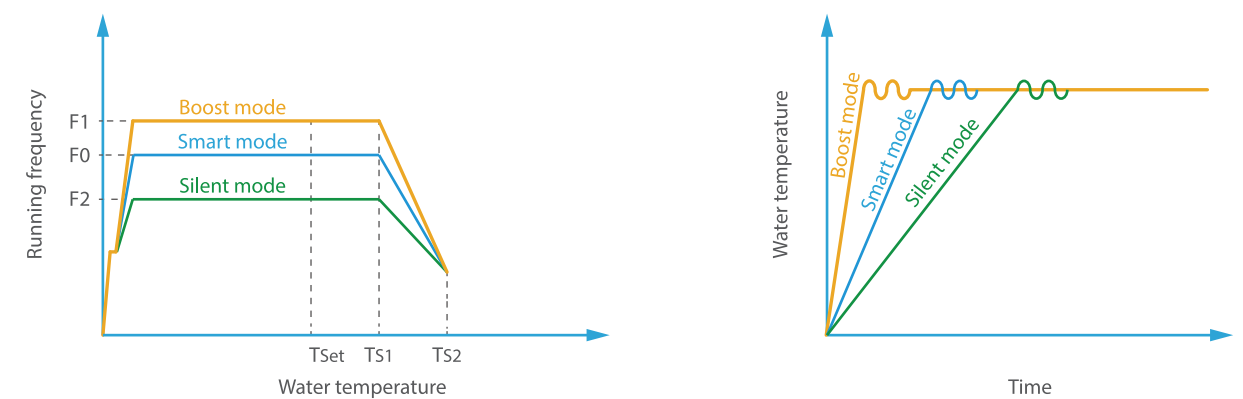


Stable running and high reliable

- Full DC inverter technology, the unit can keep more stable running than ON/OFF unit, and keep the temperature of the pool water more accurate.
- Soft start design to guarantee the safety of whole-house's electricity supply. When the unit start to working, the current will slowly increase from 0A.



Three modes design, maximise your pool season



Super silence, much quieter

- Super quiet GMCC compressor and DC motor help full wave inverter heat pump to quiet running.
- With CFD air flow technology, newly designed fan blower and outlet grille bring super quiet and high efficient operation.

Model		NBSP007N8	NBSP011N8	NBSP0014N8	NBSP017N8	NBSP023N8
Sound pressure level (@4m)	dB(A)	29.5~36.6	30.4~37.9	30.6~38.2	32.8~40.5	35.3~41.1
Sound pressure level (@10m)	dB(A)	19.5~27.4	20.6~28.2	20.8~28.6	23.0~31.8	24.3~33.4

Model		NBSP025N8T	NBSP029N8T	NBSP029N8T
Sound pressure level (@4m)	dB(A)	35.6~41.8	36.4~44.7	37.9~46.9
Sound pressure level (@10m)	dB(A)	24.6~33.7	26.6~36.5	27.3~38.2

Specifications

Specification – inverter swimming pool HP						
		NBSP007N8	NBSP011N8	NBSP014N8	NBSP017N8	NBSP023N8
MFG Code		045631-971	045631-972	045631-973	045631-974	045631-975
Recommended pool volume	m³	15~30	25~50	30~60	35~70	60~100
Air 26°C/ Water 26°C Humidity 80%	Capacity (kW)	1.6~7.2	2.7~10.9	3.4~14.3	4.3~17.4	5.7~23.2
	Absorbed electrical power (kW)	0.13~1.19	0.18~1.74	0.23~2.32	0.29~2.85	0.4~3.8
	COP	6.22~14.55	6.27~14.8	6.15~14.62	6.0~14.5	6.1~14.5
	Capacity (kW) Boost mode	7.2	10.90	14.30	17.40	23.20
	COP Boost	6.26	6.27	6.15	6.00	6.10
	Capacity(kW) Smart mode	5.92	8.94	11.44	14.01	18.79
	COP Smart	7.65	7.84	7.69	7.50	7.63
	Capacity(kW) Silent mode	3.7	5.45	7.15	8.70	11.60
	Silent COP	10.42	10.45	10.25	10.00	10.17
Air 20°C/ Water 26°C Humidity 80%	Capacity (kW)	1.4~6.0	2.4~8.95	3.1~11.7	3.9~15.1	5.2~19.86
	Absorbed electrical power (kW)	0.13~1.14	0.22~1.7	0.29~2.19	0.37~2.89	0.49~3.82
	COP	5.25~10.76	5.25~10.7	5.35~10.72	5.22~10.6	5.2~10.6
	Capacity (kW) Boost mode	6.00	8.95	11.70	15.10	19.86
	COP Boost	6.26	5.25	5.35	5.22	5.20
	Capacity (kW) Smart mode	5.92	7.16	9.36	12.08	15.89
	COP Smart	7.65	6.42	6.48	6.39	6.42
	Capacity (kW) Silent mode	3.7	4.48	5.85	7.55	9.93
	Silent COP	10.42	8.88	8.76	8.77	8.71
Air 15°C / Water 26°C Humidity 70%	Capacity (kW)	1.3~5.1	2.18~8.13	2.86~10.65	3.49~13	4.64~17.34
	Absorbed electrical power (kW)	0.17~1.06	0.28~1.59	0.38~2.17	0.47~2.64	0.61~3.6
	COP	4.8~7.8	4.9~7.8	4.9~7.6	4.85~7.44	4.8~7.5
	Capacity (kW) Boost mode	5.1	8.13	10.65	13.00	17.34
	COP Boost	4.8	4.90	4.90	4.85	4.80
	Capacity (kW) Smart mode	4.08	6.50	8.52	10.40	13.87
	COP Smart	5.9	5.76	5.76	5.71	5.65
	Capacity (kW) Silent mode	2.55	4.00	5.30	6.50	8.67
	Silent COP	6.75	6.53	6.53	6.47	6.40
Compressor		GMCC				
Compressor type		double rotary inverter				
Power supply	V / Ph / Hz	1x230V / 50Hz				
Heat exchanger type		titanium spiral tube				
Fan speed	RPM	400~800	400~1000			
Maximum electrical power	kW	1.5	1.93	2.21	3.17	4.22
Maximum current	A	6.53	8.4	9.6	13.77	18.36
Hydraulic return connections	"	G1-1/2	G1-1/2	G1-1/2	G1-1/2	G1-1/2
Pressure loss	kpa	16	18	18	19	22
Water flow	m³/h	3~4	4~6	5~7	6~8	8~10
Min/max pressure	MPa	1.5/4.15				
Packaging dimensions	LxWxH(mm)	860x330x668	986x356x668			1076x426x720
Net dimensions	LxWxH(mm)	950x410x800	1080x435x800			1161x490x855
Net weight	kg	38	44	46	56	70
Gross weight	kg	45	54	56	66	83
Noise level at 1 m	dB(A)	37.7~46.1	38.3~48.1	38.5~48.6	41.5~52.5	44.2~54.5
Noise level at 4 m	dB(A)	29.5~36.6	30.4~37.9	30.6~38.2	32.8~40.5	35.3~41.1
Noise level at 10m	dB(A)	19.5~27.4	20.6~28.2	20.8~28.6	23.0~31.8	24.3~33.4
Outdoor temp.	°C	-15 ÷ 43				
Electrical protection level		IPX4				



Specifications

Specification – inverter swimming pool HP				
		NBSP025N8T	NBSP029N8T	NBSP032N8T
MFG Code		045631-979	045631-980	045631-981
Recommended pool volume	m³	65~110	70~130	80~150
Air 26°C/ Water 26°C Humidity 80%	Capacity (kW)	6.2~25.1	6.6~29.0	7.7~31.7
	Absorbed electrical power (kW)	0.43~4.05	0.46~4.75	0.54~5.21
	COP	6.2~14.52	6.1~14.54	6.11~14.6
	Capacity (kW) Boost mode	25.10	29.00	31.7
	COP Boost	6.20	6.10	6.11
	Capacity(kW) Smart mode	20.10	23.20	25.68
	COP Smart	7.60	7.63	7.64
	Capacity(kW) Silent mode	12.52	14.55	15.85
	Silent COP	10.15	10.17	10.18
Air 20°C/ Water 26°C Humidity 80%	Capacity (kW)	5.4~21.2	6.1~24.53	7.0~26.8
	Absorbed electrical power (kW)	0.51~4.07	0.57~4.66	0.66~5.17
	COP	5.21~10.55	5.26~10.64	5.18~10.61
	Capacity (kW) Boost mode	21.20	24.53	26.8
	COP Boost	5.21	5.26	5.18
	Capacity (kW) Smart mode	16.96	19.62	21.44
	COP Smart	6.37	6.51	6.35
	Capacity (kW) Silent mode	10.60	12.27	13.40
	Silent COP	8.84	8.92	8.77
Air 15°C / Water 26°C Humidity 70%	Capacity (kW)	5.15~18.52	5.43~21.28	6.34~23.68
	Absorbed electrical power (kW)	0.68~3.77	0.73~4.3	0.87~4.8
	COP	4.91~7.53	4.95~7.51	4.9~7.6
	Capacity (kW) Boost mode	18.52	21.28	23.68
	COP Boost	4.91	4.95	4.9
	Capacity (kW) Smart mode	14.82	17.02	18.94
	COP Smart	5.74	5.82	5.76
	Capacity (kW) Silent mode	9.26	10.54	11.84
	Silent COP	6.51	6.60	6.53
Compressor		GMCC		
Compressor type		double rotary inverter		
Power supply	V / Ph / Hz	380-415, 3N~, 50/60		
Heat exchanger type		titanium spiral tube		
Fan speed	RPM	400~1000		
Maximum electrical power	kW	4.49	4.91	5.8
Maximum current	A	6.51	9.87	10.4
Hydraulic return connections	"	G1-1/2	G1-1/2	G1-1/2
Pressure loss	kpa	23	25	28
Water flow	m³/h	8~11	9~12	12~15
Min/max pressure	MPa	1.5/4.15		
Packaging dimensions	LxWxH(mm)	1076x426x720	1176x451x822	
Net dimensions	LxWxH(mm)	1161x490x855	1261x515x957	
Net weight	kg	72	90	98
Gross weight	kg	85	108	116
Noise level at 1 m	dB(A)	44.7~54.9	45.6~57.1	47.2~59.7
Noise level at 4 m	dB(A)	35.6~41.8	36.4~44.7	37.9~46.9
Noise level at 10m	dB(A)	24.6~33.7	26.6~36.5	27.3~38.2
Outdoor temp.	°C	-15 ÷ 43		
Electrical protection level		IPX4		