



*Efficiency and reliability, every day!*

## R32 DC INVERTER HEAT PUMP

*Heating and Cooling and DHW*



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At **NOBEL**, long-term sustainability is one of our key drivers in how we operate.

We aim to contribute to sustainable growth for the world with the new value.

This is the reason why **NOBEL** R32 DC Inverter Heat Pumps were created and as one of the most environmentally friendly energy sources, R32 refrigerant will make the planet cleaner.



**NOBEL R32 Monoblock DC** Inverter Heat Pump is the newest air source heat pump that reaches A+++ energy efficiency. It's integrated with heating, Cooling, and DHW function. Several detailed features are also available and will be introduced later!



**EFFICIENT HEATING AND COOLING AND DHW  
PERFORMANCE**



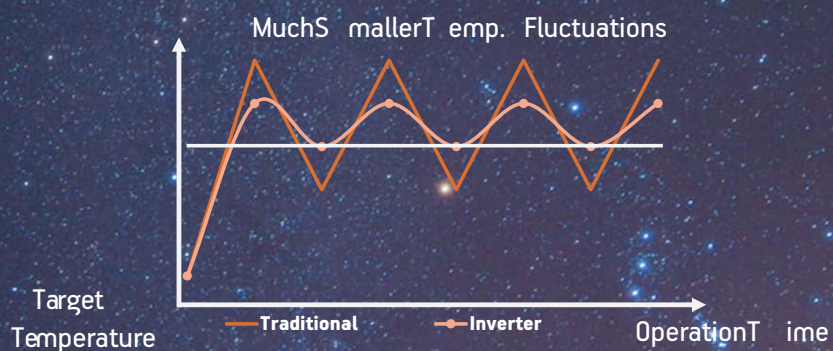
## R32 FULL DC INVERTER HEAT PUMP

NOBEL R32 heat pump adopts Panasonic DC inverter Compressor and Panasonic DC inverter fan.

With this technology, users can enjoy a maximum level of comfort at the lowest costs.

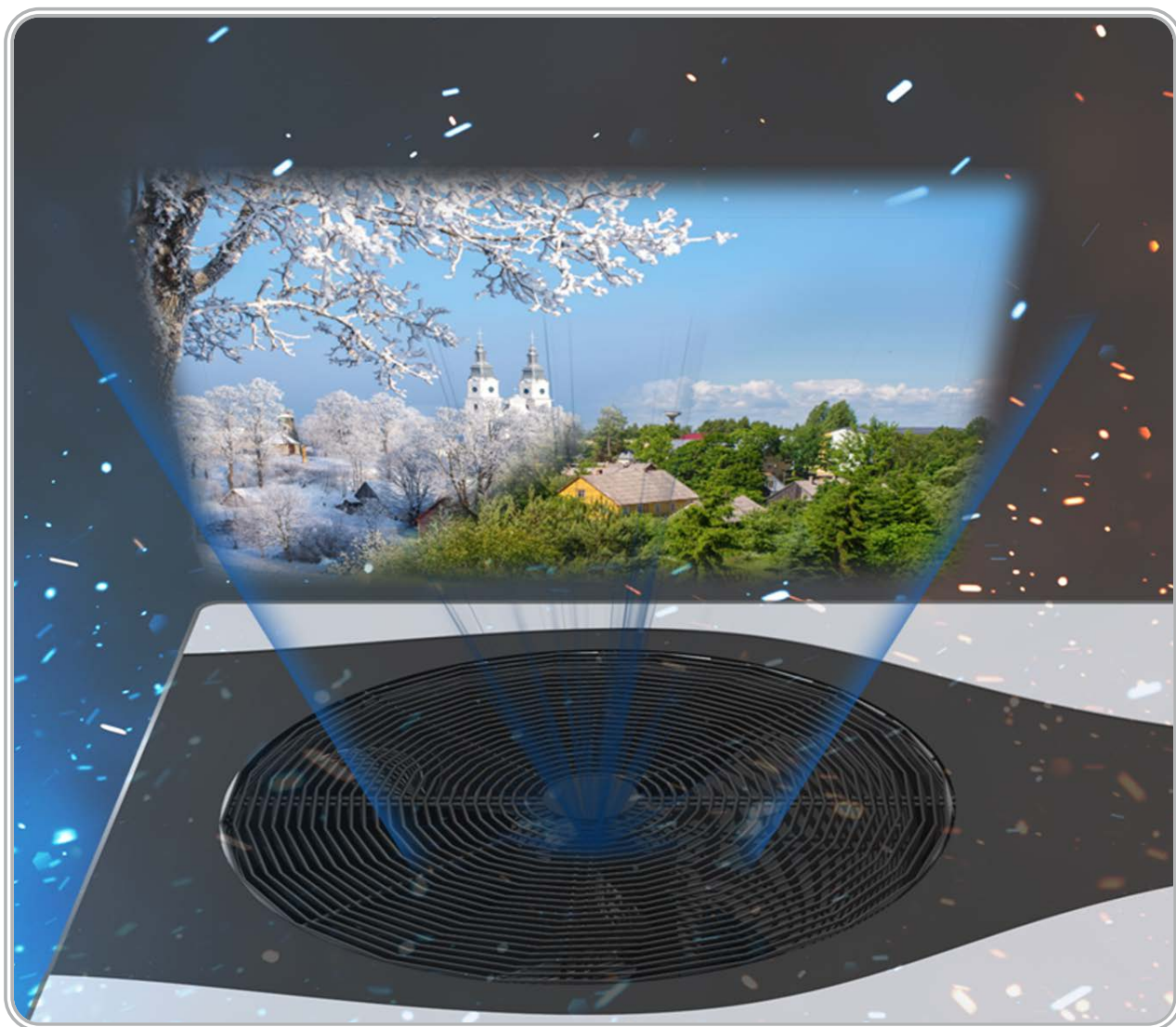
Freestanding features in the market is to save space and money. For sure.

The R32 Full DC Inverter heat pump will be the future trend.



Thanks to the integrated heating / cooling / DHW function in the heat pump, the R32 HP is able to deliver the right temperature with great power.

It gives users more options to get the perfect results they want, regardless of extreme cold / hot climates.



## INTELLIGENT DEFROSTING TECHNOLOGY

NOBEL intelligent defrost control mode calculates the temperature difference and the accumulated working time of the compressor to judge the defrost condition of the evaporator. When the defrost condition is met, it will automatically enter the defrost mode.



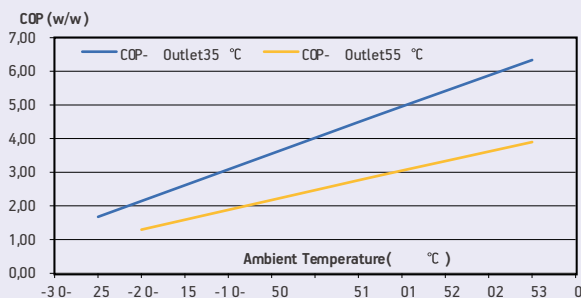


## HEATING IN LOW TEMP. OF -30°C

With the use of a DC inverter Panasonic compressor and DC inverter controller, it can automatically increase the operating frequency according to the ambient temperature and greatly improve the heating capacity in a low-temperature environment.

## SUPER LOW NOISE

Equipped with the DC inverter brushless fans and designed based on aerodynamics, NOBEL DC inverter heat pumps adopt multiple noise reduction and sound insulation measures so that noise is reduced to a low level.



NBL-HPM-NT-S006-V1

## HIGH HEATING EFFICIENCY

The unit can operate at a high frequency to heat water at a faster speed. When the temperature reaches the set temperature, it will operate at a low frequency with less energy consumed to maintain temperature.





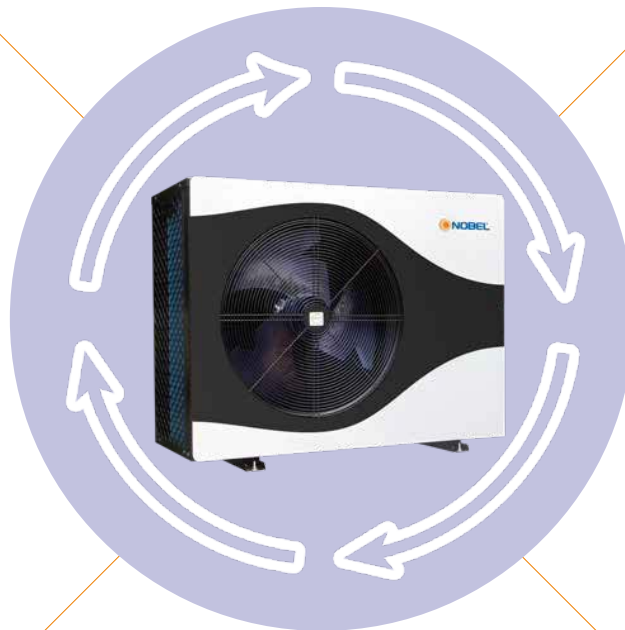
R32 is environmentally friendly and has no combustion or exhaust gas emissions.



ERP A+++ R32 DC inverter heat pumps charge and recirculate more efficiently than DC inverter heat pumps of other refrigerants.



Separation of water and electricity. There are no hidden dangers.



Runs year-round. Heating in winter, cooling in summer



With the WIFI online monitoring, customers will enjoy contactless support from our customer service center no matter where they are.

NOBEL'S self-developed online intelligent remote control system. The system has highly integrated control functions and can be operated by remote APP. With simple operation and stable performance, it is a truly intelligent The operating system realizes the separation of man and machine.

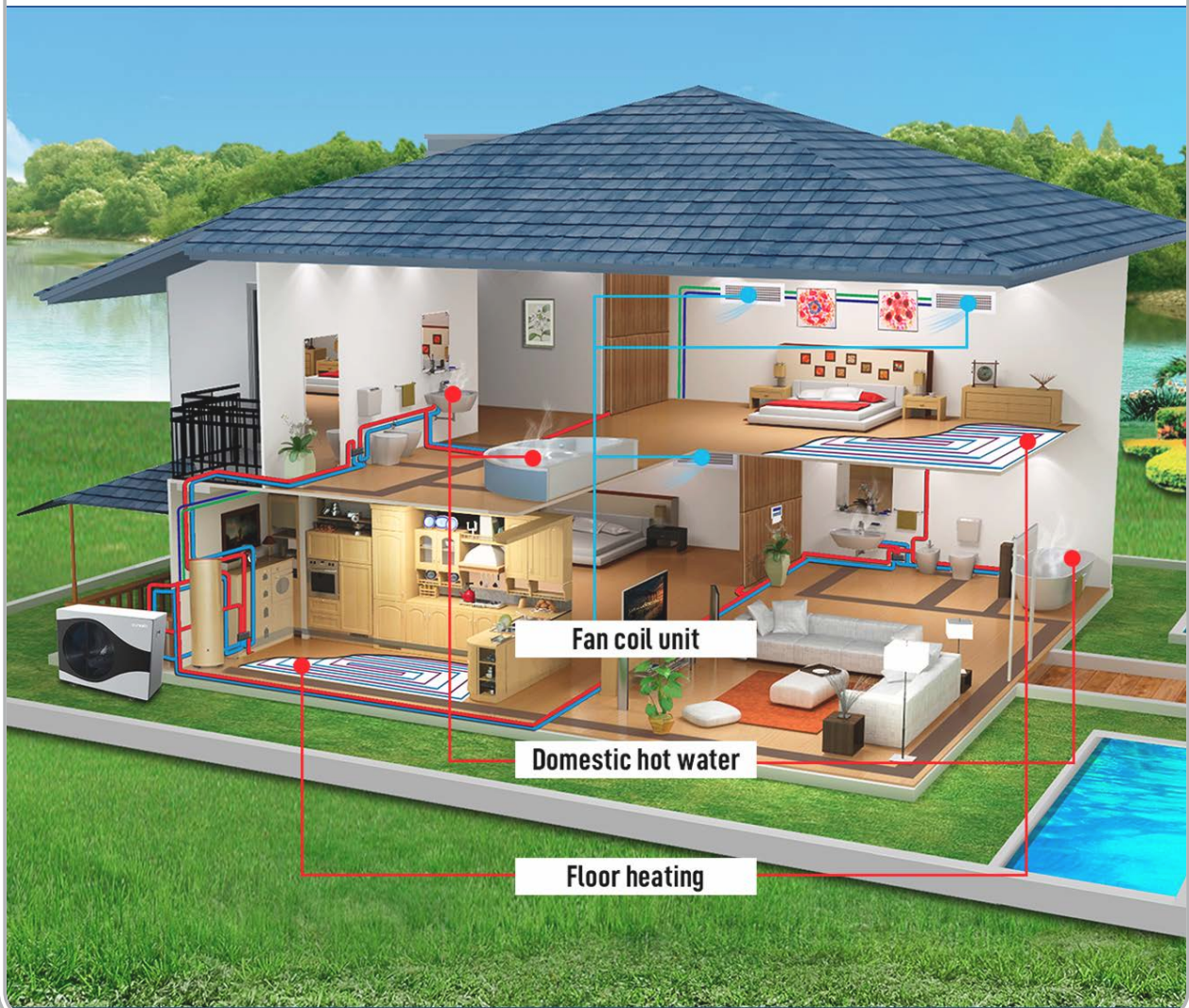




**R32 DC INVERTER**  
**HEAT PUMP PRODUCT LINE**



## INSTALLATION DIAGRAM



## R32 DC INVERTER HEAT PUMP MODELS



Model		NBL-HPM-NT-S006-V1	NBL-HPM-NT-S010-V1	NBL-HPM-NT-S010-V3	NBL-HPM-NT-S014-V1	NBL-HPM-NT-S014-V3	NBL-HPM-NT-S018-V1	NBL-HPM-NT-S018-V3	NBL-HPM-NT-S024-V3	
Power supply	V/Ph/Hz	220~240/1/50	220~240/1/50	380~415/3/50	220~240/1/50	380~415/3/50	220~240/1/50	380~415/3/50	380~415/3/50	
Nominal Heating (Max) (A7/6°C,W30/35°C)	Heating Capacity	kW	6.46(2.50-8.30)	10.58(4.20-12.20)	10.58(4.20-12.20)	14.45(5.30-16.50)	14.45(5.30-16.60)	18.77(6.20-20.50)	18.77(6.20-20.50)	24.33 (6.50-26.10)
	Power Input	kW	1.31	2.29	2.29	3.06	3.06	3.99	3.99	5.10
	COP	W/W	4.93	4.62	4.62	4.72	4.72	4.70	4.70	4.77
Nominal Heating (Max) (A7/6°C,W47/55°C)	Heating Capacity	kW	5.92	9.47	9.47	13.89	13.89	16.90	16.90	24.29
	Power Input	kW	1.85	3.09	3.09	4.47	4.47	5.47	5.47	7.93
	COP	W/W	3.21	3.06	3.06	3.11	3.11	3.09	3.09	3.06
Nominal Cooling (Max) (A35/24°C,W12/7°C)	Cooling Capacity	kW	5.66	8.34	8.34	13.24	13.24	15.88	15.88	20.89
	Power Input	kW	1.74	2.66	2.66	4.12	4.12	4.99	4.99	6.70
	EER	W/W	3.25	3.14	3.14	3.21	3.21	3.18	3.18	3.12
ERP Level (Outlet water temp. at 35°C)	/	A+++	A+++	A+++	A+++	A+++	A+++	A+++	A+++	
ERP Level (Outlet water temp. at 55°C)	/	A++	A++	A++	A++	A++	A++	A++	A++	
Rated input power	kW	2.71	3.83	3.83	5.97	5.97	7.24	7.24	9.38	
Rated input current	A	12.00	17.00	6.5	26.50	10.50	35.50	13.20	17.30	
Refrigerant / Weight	/	R32	R32	R32	R32	R32	R32	R32	R32	
Rated water flow	m <sup>3</sup> /h	1.10	1.75	1.75	2.50	2.50	3.20	3.20	4.20	
Fan quantity	/	1	1	1	1	1	2	2	2	
Fan motor type	/	DC inverter								
Compressor	/	Panasonic / DC inverter / Rotary / EVI								
Circulating pump	/	Inverter type / Built-in								
IP Class	/	IPX4								
Sound pressure at 1m distance	dB(A)	50	51	51	52	52	54	54	55	
Max outlet water temperature	°C	60	60	60	60	60	60	60	60	
Water piping connections	/	DN 25 (1")	DN 25 (1")	DN 25 (1")	DN 32 (1-1/4")	DN 32 (1-1/4")	DN 40 (1.5")	DN 40 (1.5")	DN 40 (1.5")	
Pressure drop at rating water flow	kPa	25	27	27	30	30	32	32	32	
Operating temperature range(Heating mode)	°C	-30~45								
Operating temperature range(Cooling mode)	°C	16~45								
Unpacked Dimensions (LxDxH)	mm	1110*445*850	1110*445*850	1110*445*850	1110*475*850	1110*475*850	1050*420*1250	1050*420*1250	1050*420*1250	
Packed Dimensions (LxDxH)	mm	1160*530*1010	1160*530*1010	1160*530*1010	1160*565*1010	1160*565*1010	1100*480*1400	1100*480*1400	1100*480*1400	
UnPacked Weight	kg	95	109	109	125	125	155	155	174	
Packed Weight	kg	105	119	119	140	140	175	175	194	



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