

# R32 DC Inverter Swimming Pool Heat Pump

Swimming Pool Heating/Cooling Application Expert





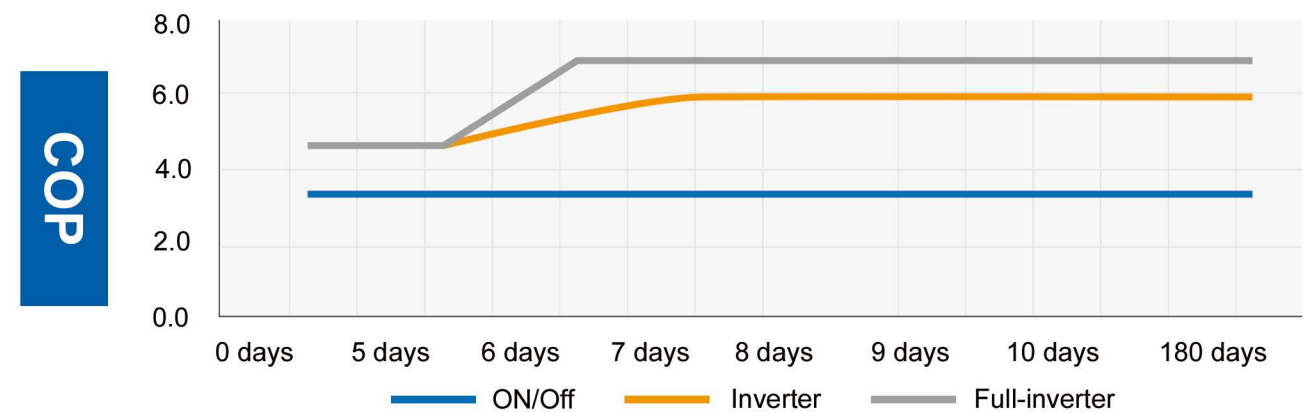
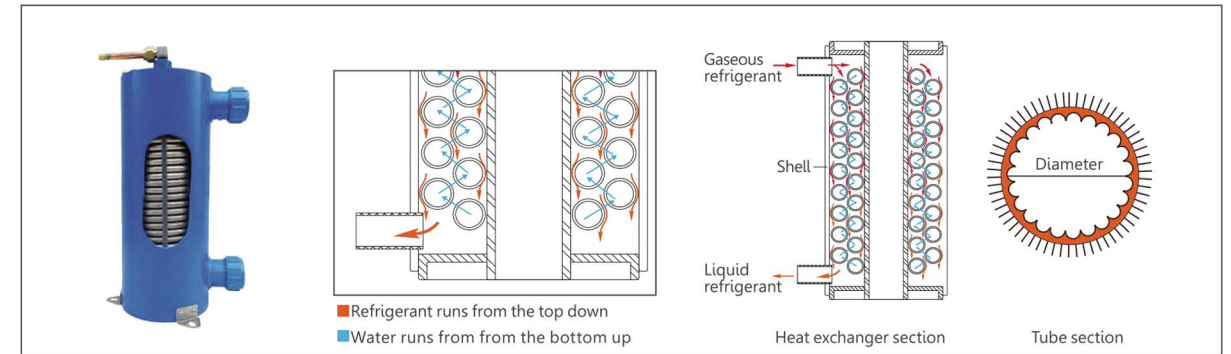
# Installation Diagram



# Advantage

## Patented Efficient Heat Exchanger

The patented high efficiency heat exchangers have a strong counter current design, and are helpful for refrigerant super-cooling. Because the interspace between the shell and tubes is small, this leads to a larger flow, which makes oil return easy. Additionally, the large tube diameter prevents tubes from deposits and blocking.



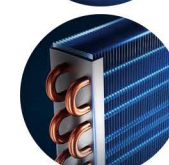
# Detailed Features



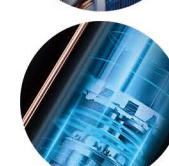
The world famous EEV (electronic expansion valve) is critical to PID control the volume of the refrigerant accurately and reduces energy consumption.



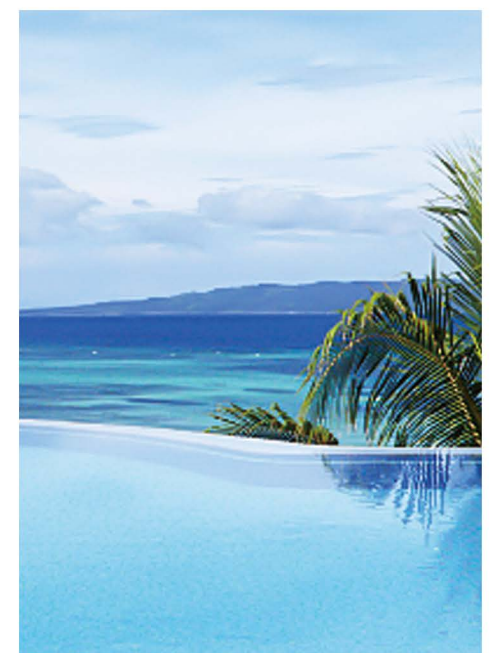
The compressors can be on or off according to the actual energy need. So the units are reliable and easy to control.



Air exchangers (fins-coil) with hydrophilic coating are strongly anti-corrosive and perform at high efficiency.

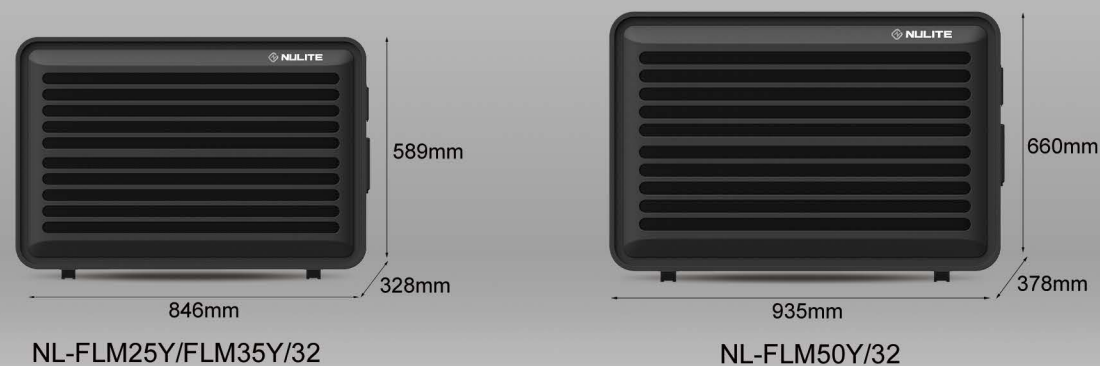


With strong countercurrent design, the patented C&S heat exchanger is conducive to improving the efficiency and reliability of the unit.



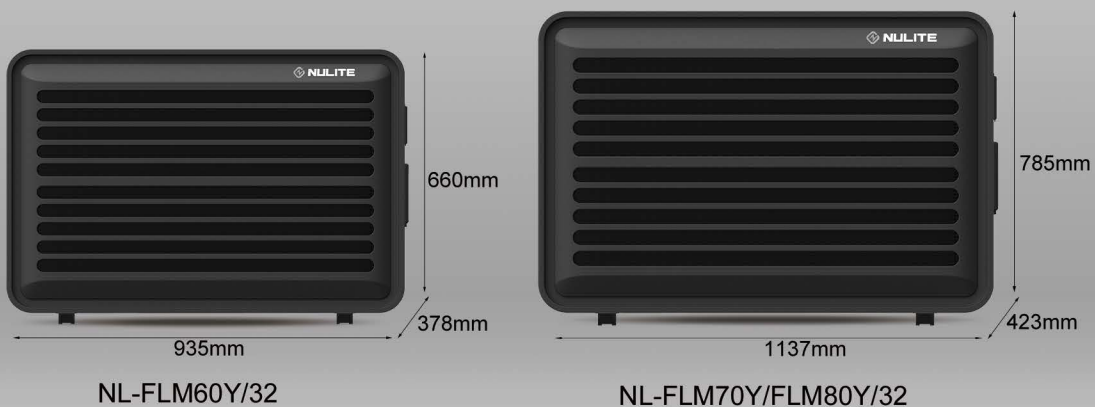


# Parameter



Model Name	NL-FLM25Y/32	NL-FLM35Y/32	NL-FLM50Y/32
Advised pool volume	15~40	20~50	35~70
Power source	220V 1Phase	220V 1Phase	220V 1Phase
Heating Capacity at Air 27°C ,Humidity 80%,Water 26°C in,28°C out			
Capacity (kW)	7.7	11.2	17.0
Power input (kW)	1.26	1.75	2.75
COP (W/W)	6.11	6.40	6.18
Heating Capacity at Air 15°C ,Humidity 70%,Water 26°C in,28°C out			
Capacity (kW)	5.5	8.3	12.7
Power input (kW)	1.18	1.80	2.80
COP (W/W)	4.66	4.6	4.54
Cooling Capacity at Air 35°C ,Water 30°C in ,28°C out			
Capacity (kW)	3.43	4.49	6.50
Power input (kW)	1.1	1.39	1.62
COP (W/W)	3.12	3.23	4.01
Operating ambient temperature	(-15°C ~ 43°C)		
Casing type	ABS Plastic		
Funtions	Heating & Cooling		
Refrigerant	R32	R32	R32
Max Current (A)	8	10	15
Power cable (mm²)	3x2.5	3x2.5	3x4.0
Circuit breaker (A)	10	12	18
Sound pressure@1M dB(A)	36~46	38~49	41~50
Sound pressure@2M dB(A)	20~26	21~30	23~31
Compressor type	Twin-rotary DC Inverter		
Condenser	Spiral titanium tube in PVC		
Evaperator	Hydrophilic aluminium fins & copper tubes		
Fan type	DC motor fan - Horizontal		
Fan quantity	1 PCS		
Advised water flow (m³/H)	2~3	3~4	5~7
Water connection (mm)	50	50	50
Unit dimensions (W*D*H) (mm)	846*328*589	846*328*589	935*378*660
Packing dimensions (W*D*H) (mm)	930*440*720	930*440*720	988*460*789
Net weight (kg)	44.5	46.5	56.5
Gross weight (kg)	52	54	66.5

# Parameter



Model Name	NL-FLM60Y/32	NL-FLM70Y/32	NL-FLM80Y/32
Advised pool volume	40~80	45~90	50~100
Power source	220V 1Phase	220V 1Phase	220V 1Phase
Heating Capacity at Air 27°C ,Humidity 80%,Water 26°C in,28°C out			
Capacity (kW)	20.0	22.5	26.5
Power input (kW)	3.32	3.65	4.31
COP (W/W)	6.02	6.16	6.15
Heating Capacity at Air 15°C ,Humidity 70%,Water 26°C in,28°C out			
Capacity (kW)	14.8	17.4	19.8
Power input (kW)	3.21	3.74	4.18
COP (W/W)	4.62	4.65	4.74
Cooling Capacity at Air 35°C ,Water 30°C in ,28°C out			
Capacity (kW)	8.30	10.11	12.36
Power input (kW)	2.75	2.68	3.95
COP (W/W)	3.02	3.77	3.13
Operating ambient temperature	(-15°C ~ 43°C)		
Casing type	ABS Plastic		
Funtions	Heating & Cooling		
Refrigerant	R32	R32	R32
Max Current (A)	18	22	26
Power cable (mm²)	3x4.0	3x4.0	3x6.0
Circuit breaker (A)	20	25	28
Sound pressure@1M dB(A)	42~51	43~53	44~55
Sound pressure@2M dB(A)	24~32	25~36	26~37
Compressor type	Twin-rotary DC Inverter		
Condenser	Spiral titanium tube in PVC		
Evaperator	Hydrophilic aluminium fins & copper tubes		
Fan type	DC motor fan - Horizontal		
Fan quantity	1 PCS		
Advised water flow (m³/H)	6~8	7~9	8~10
Water connection (mm)	50	50	50
Unit dimensions (W*D*H) (mm)	935*378*660	1137*423*785	1137*423*785
Packing dimensions (W*D*H) (mm)	988*460*789	1173*502*914	1173*502*914
Net weight (kg)	65	76	81
Gross weight (kg)	75	86	91