

## 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.

# AquaX Essential



Self-Developed  
Control System



16X  
Saving



10x  
Quieter



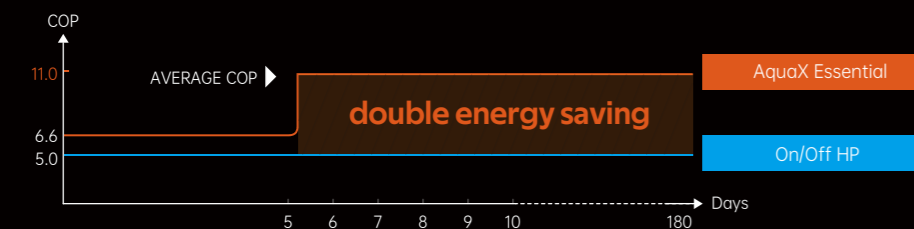
0 Compressor  
Noise



Full-inverter

## 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 & Inverter Life APP



## Warm Your Pool at -5°C

-5°C

43°C

## AquaX Essential SPECS R32

Model	AFC08	AFC09	AFC11	AFC14	AFC17	AFC21	AFC24	AFC28	AFC28T	AFC35T
Advised pool volume (m³)	15~35	20~40	25~45	30~50	35~65	45~80	55~90	65~120	65~120	90~160
Operating air temperature (°C)	-5~43									
SCOP	7	7.1	7.3	7.6	7.6	7.3	7.8	7.8	7.8	8.5
Performance Condition: Air 26°C, Water 26°C, Humidity 80%										
Heating capacity (kW)	7.5	8.8	11	13.8	17.1	21.2	24.0	28.0	28.5	34.5
COP	11.9~6.0	12.8~6.9	14.3~6.7	15.2~6.5	14.2~6.6	14.8~6.3	14.5~6.8	15.5~6.7	15.2~6.7	15.8~6.6
COP at 50% capacity	9.3	10.1	10.4	11	10.3	10.8	10.6	11.3	11.2	11.5
Performance Condition: Air 15°C, Water 26°C, Humidity 70%										
Heating capacity (kW)	5.3	6.2	7.8	9.8	11.8	14.6	16.6	19.3	19.7	23.8
COP	6.1~4.3	6.6~4.9	7.3~4.8	7.8~4.6	7.3~4.7	7.6~4.5	7.4~4.8	7.9~4.8	7.8~4.8	8.1~4.7
COP at 50% capacity	6.0	6.5	6.7	7.1	6.6	7.0	6.6	7.1	7.0	7.2
Performance Condition: Air 35°C, Water 28°C, Humidity 80%										
Cooling capacity (kW)	2.5	3.1	4.0	5	5.5	7.7	9.6	12.0	12.0	16.3
Sound pressure at 1m dB(A)	38.8~50.8	40.0~52.4	41.3~53.4	41.8~54.2	44.8~56.2	45.1~57.0	45.3~57.5	45.6~58.1	45.6~58.1	46.1~59.1
Sound pressure of 50% capacity at 1m dB(A)	42.8	44.5	44.9	45.3	45.4	46.7	47.3	47.8	47.8	49.0
Sound pressure at 10m dB(A)	28.8~30.8	20.0~32.4	21.3~33.4	21.8~34.2	24.8~36.2	25.1~37.0	25.3~37.5	25.6~38.1	25.6~38.1	26.1~39.1
Heat exchanger	Spiral titanium tube in PVC									
Casing	ABS casing									
Power supply	230V~/1Ph/50Hz								400V 3N~, 50Hz	
Rated input power at air 15°C (kW)	0.17~1.23	0.19~1.27	0.21~1.63	0.25~2.13	0.32~2.51	0.38~3.24	0.45~3.46	0.49~4.02	0.51~4.1	0.59~5.06
Rated input current at air 15°C (A)	0.74~5.35	0.83~5.52	0.91~7.09	1.09~9.26	1.3~10.91	1.65~14.09	1.96~15.04	2.13~17.48	2.22~17.83	2.57~22
Max input current (A)	8.0	8.5	12.0	12.5	17.0	19.5	20.5	20.0	7.0	9.5
Advised water flux (m³/h)	2~4	3~4	3~4	4~6	6.5~8.5	8~10	10~12	10~12	10~12	12~18
Water pipe in-out size (mm)	48									
Net Dimension L × W × H (mm)	872×349×654	872×349×654	872×349×654	872×349×654	962×349×654	962×349×754	961×420×758	1084×429×948	1084×429×948	1154×539×948
Net weight (kg)	42	46	47	49	60	68	68	90	93	120
Qty per 20'FT / 40'HQ (sets)	102/216	102/216	102/216	102/216	90/198	60/198	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 .

