

Mr. Perfect Heat pumps

APC090 - APC110 - APC140 - APC170 - APC220 -
APC270 - APC320S - APC410S



AQUA[®]
FORTE

Channel: MPP Pool omnichannel

USP'S

- **InverPad® Turbo**

- It redefines the pool heating industry with its unique 'Pad' design, revolutionary Turbo Technology and Stepless DC inverter technology.

- **20X Silence 38.4 db(A)**

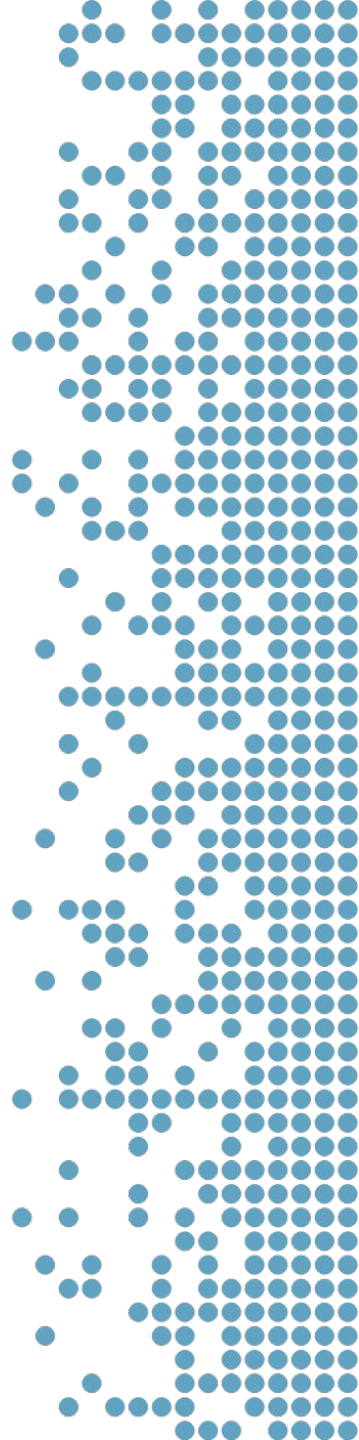
- Thanks to the InverPad® Turbo technology, this unit is 13 dB(A) quieter than traditional On/Off heaters, resulting in a dramatic reduction in sound intensity.

- **16X Saving**

- With a COP of up to 16, this system achieves an ideal match between the compressor, motor and EEV for higher efficiency. Every 1kW of electricity produces up to a maximum of 16kW heat output, offering an average of 95% free energy from ambient air.

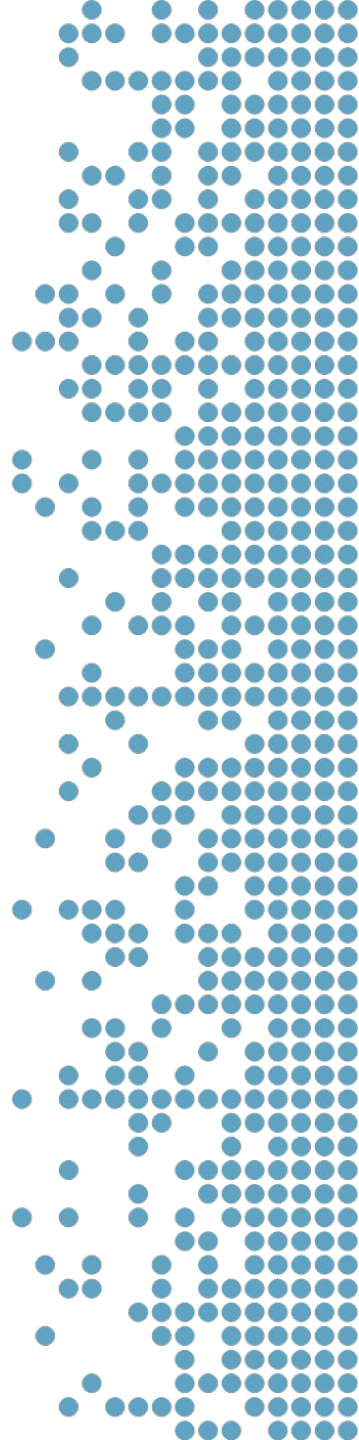
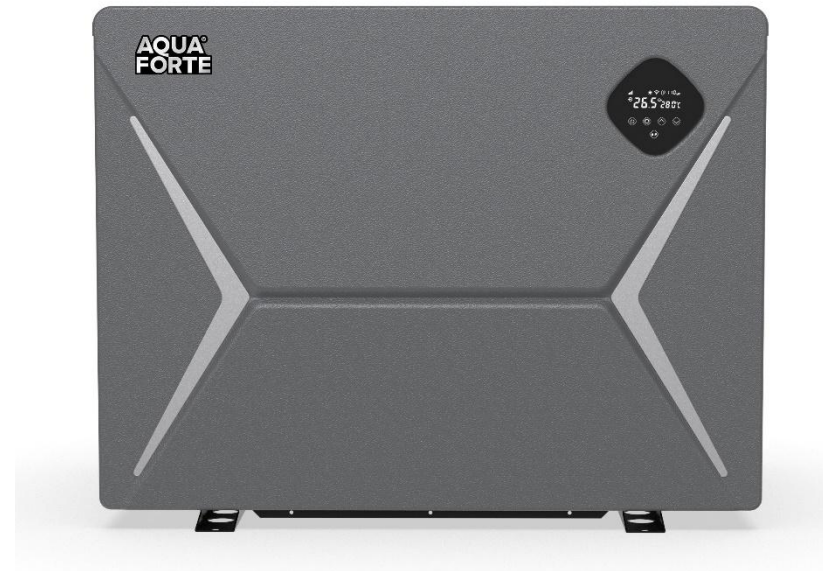
- **Ready for -16°C**

- 4-season swimming with advanced smart Inverter technology



Other features

- Aluminum-alloy Casing
- Tempered-glass controller with built-in WIFI
- EEV Technology, increase 20% COP
- Mitsubishi twin-rotary compressor
- Twisted titanium heat exchanger
- EVO Reverse Cycle defrosting



Technical details

Model	APC090	APC110	APC140	APC170	APC220	APC270	APC320S	APC410S
SKU	SC962	SC964	SC965	SC966	SC967	SC968	SC969	SC963
Technology	InverPad® Turbo							
Operating air temperature (°C)	-15°C~43°C							
Gas	R32							
Advised pool volume (m ³) *	15-30	20~45	30~55	35~65	45~80	50~95	60~120	85~160
PERFORMANCE CONDITION: Air 27°C/ Water 27°C/ Humidity 80%								
Heating capacity (kW) - Turbo Mode	8.7	11.5	13.8	16.8	22.0	26.1	31.5	40.5
Heating capacity (kW) - Perfect Mode	7.1	9.4	10.8	13.3	17.2	20.5	26.7	34.5
COP range	15.1~7.1	15.0~7.3	15.0~7.3	15.0~7.0	15.3~7.3	15.2~7.2	15.5~7.0	16.0~7.0
Average COP at 50% Speed	11.3	11.4	10.8	11.0	11.7	11.4	11.3	11.4
PERFORMANCE CONDITION: Air 15°C / Water 26°C / Humidity 70%								
Heating capacity (kW) - Turbo Mode	6.3	7.5	9.0	11.3	14.8	17.8	22.0	28.7
Heating capacity (kW) - Perfect Mode	5.0	6.4	7.5	9.0	12.3	14.2	17.8	23.4
COP range	7.3~5.0	7.4~5.0	7.4~5.0	7.7~5.0	8.1~5.0	7.8~5.1	8.0~5.0	8.2~5.0
Average COP at 50% Speed	6.6	6.7	6.3	6.4	6.9	6.7	6.9	7.0
COMPONENTS								
Compressor	Twin-Rotary Mitsubishi DC Compressor							
Heat exchanger	Twisted Titanium Heat Exchanger							
Fan motor	Turbo Fan							
Casing	Aluminum-alloy Casing							
Power supply	230V 1Ph				400V 3Ph			

* The data above is for reference only. For specific data, please refer to the nameplate on the unit.

* Advised pool volume applies to a private pool with isothermal cover, from April to September.

Technical details

Model	APC090	APC110	APC140	APC170	APC220	APC270	APC320S	APC410S
SKU	SC962	SC964	SC965	SC966	SC967	SC968		
SOUND								
Sound level at 1m dB(A)	36.3~44.4	36.4~44.7	36.5~45.9	39.5~46.8	39.5~49.8	39.8~50.2	38.4~49.0	38.9~49.6
Sound level by 50% speed 1m dB(A)	38.4	38.5	40.3	42.4	43.0	43.1	43.3	43.7
Sound level at 10m dB(A)	16.2~24.4	16.4~24.7	16.5~25.9	19.5~26.8	19.5~29.8	19.8~30.2	18.4~29.0	18.9~29.6
OTHERS								
Rated input power (kW)	0.20~1.50	0.24~1.79	0.29~2.14	0.36~2.69	0.45~3.36	0.55~4.05	0.59~4.89	0.77~6.44
Input power at 50% Speed (kW)	0.38	0.48	0.60	0.71	0.89	1.06	1.33	1.68
Rated input current (A)	0.87~6.52	1.04~7.78	1.26~9.30	1.58~11.7	1.96~14.61	2.39~17.61	0.86~7.09	1.12~9.33
Advised water flux (m ³ /h)	2~4	2~4	3~4	4~6	6~9	8~10	10~12	12~18
Water connection (mm)	50mm /48.3mm							

* The data above is for reference only. For specific data, please refer to the nameplate on the unit.

* Advised pool volume applies to a private pool with isothermal cover, from April to September.

