

### Specification Sheet and Technical Parameters for the RPH Compact Inverter Series

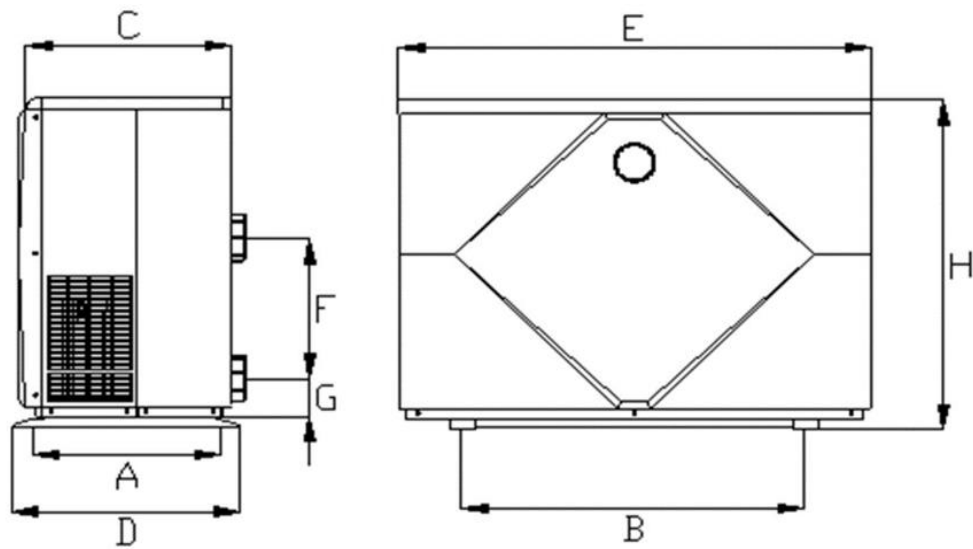
Model	RPH009-1A	RPH013-1A	RPH016-1A	RPH021-1A	RPH028-1A	RPH028-3A
<b>HEATING PERFORMANCE CONDITION: Air at 27°C / Water 27°C / Humid. 80%</b>						
Heating Capacity (kW)	8.6	13.0	15.5	21.0	27.8	27.8
COP Range	14~6.5	14~6.4	15~6.5	15~6.5	15.8~7.2	15.6~7.1
Avg COP at 50% Speed	9.0	9.5	9.6	9.3	11.0	10.7
<b>HEATING PERFORMANCE CONDITION: Air at 15°C / Water 26°C / Humid. 70%</b>						
Heating Capacity (kW)	6.4	9.0	10.9	14.5	18.8	18.8
COP Range	6.8~4.5	7~4.4	7~4.5	7~4.6	7.8~4.9	7.8~4.9
Avg COP at 50% Speed	6.2	6.3	6.3	6.2	6.5	6.4
<b>HEATING PERFORMANCE CONDITION: Air at 5°C / Water 27°C / Humid. 60%</b>						
Heating Capacity (kW)	4.6	6.3	7.7	9.8	12.9	12.9
COP Range	6.5~3.1	6.4~3.1	6.5~3.2	6.5~3.2	7.2~3.5	7.1~3.5
Avg COP at 50% Speed	4.3	4.4	4.3	4.2	4.6	4.6
<b>COOLING PERFORMANCE CONDITION: Air 35°C / Water 28°C / Humid. 80%</b>						
Cooling Capacity (kW)	4.4	5.9	7.8	9.9	11.7	11.7
<b>TECHNICAL SPECIFICATIONS</b>						
Operating air temp (°C)	-5°C~43°C				-10°C~43°C	
<b>Power supply</b>	<b>240V 1Ph</b>					<b>415V 3Ph</b>
Power Input (kW)	0.21~1.42	0.31~2.10	0.37~2.42	0.47~3.20	0.50~3.84	0.5~3.84
Current Input (A)	0.93~6.20	1.34~8.90	1.60~10.60	2.06~13.70	2.17~16.70	0.72~5.56
<b>Circuit breaker (A)</b>	<b>10<sup>1</sup></b>	<b>16<sup>1</sup></b>	<b>20</b>	<b>25</b>	<b>25</b>	<b>10</b>
Sound level at 10mtrs dBa	19.0~28.4	22.2~30.8	21.2~34.4	23.4~34.1	21.5~32.9	21.5~32.9
<b>Sound level at 3mtrs dBa</b>	<b>29.5~38.9</b>	<b>32.7~41.3</b>	<b>31.7~44.9</b>	<b>33.9~44.6</b>	<b>32.0~43.4</b>	<b>32.0~43.4</b>
Sound level at 50% speed 1mtr dBa	41.6	45.8	45.9	46.8	46.4	47.0
Protection Level	IPX4	IPX4	IPX4	IPX4	IPX4	IPX4
Refrigerant R32 charge (kg)	0.5	0.75	0.8	1.0	2.0	2.0
Operating pressure-discharge/suction	4.1/0.15Mpa	4.1/0.15Mpa	4.1/0.15Mpa	4.1/0.15Mpa	4.1/0.15Mpa	4.1/0.15Mpa
<b>Target flow rate (L/sec)</b>	<b>1.2</b>	<b>1.7</b>	<b>2.2</b>	<b>2.8</b>	<b>3.4</b>	<b>3.4</b>
Flow Rate Range (L/sec)	0.5~1.2	1.2~1.7	1.6~2.2	2.0~2.8	2.8~3.4	2.8~3.4
Temperature Differential (TD) <sup>2</sup> @ 27/27/80	1.7	1.8	1.7	1.8	2.0	2.0
Temperature Differential (TD) <sup>2</sup> @ 15/26/70	1.3	1.3	1.2	1.2	1.3	1.3
<b>Water connections (mm)<sup>3</sup></b>	<b>40</b>	<b>40</b>	<b>40</b>	<b>40</b>	<b>40</b>	<b>40</b>
Max allowable water pressure (kPa)	300	300	300	300	300	300
<b>Net weight (Kg)</b>	<b>58</b>	<b>61</b>	<b>64</b>	<b>70</b>	<b>94</b>	<b>99</b>
Gross weight packaged (Kg)	67	70	72	80	103	108

**Notes:**

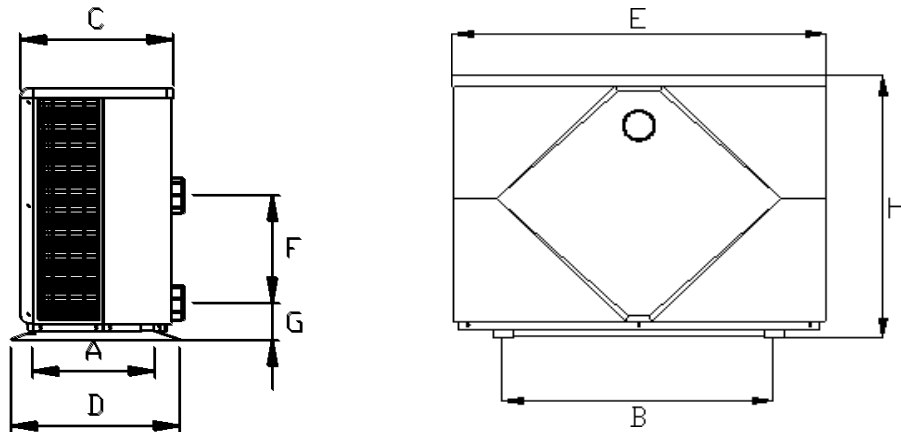
- The RPH009 and RHP016 are supplied with a power cord (without plug). These units may be installed by plug or hard-wired connection. All other models must be hard-wired.
- TD Conditions are expressed as Entering Water Temperature/Ambient/Relative Humidity. TD is calculated with the compressor at its standard maximum operating Hz at the target water flow shown. TD will vary with all these variables.
- Water unions suit 50mm OD high pressure PVC pipe, sometimes referred to as 40mm ID.



**Dimensions**



Size (mm) Model	A	B	C	D	E	F	G	H	Packaged Dimensions (L x D x H)
RPH009-1A	410	645	387	430	890	250	75	657	955 x 450 x 690
RPH013-1A	410	645	387	430	890	290	75	657	955 x 450 x 690
RPH016-1A	410	645	387	430	890	280	75	657	955 x 450 x 690
RPH021-1A	410	710	387	430	1060	390	75	657	1125 x 450 x 690



Size(mm) Model	A	B	C	D	E	F	G	H	Packaged Dimensions (L x D x H)
RPH028-1A	410	710	390	430	1060	640	75	957	1125 x 450 x 990
RPH028-3A	410	710	390	430	1060	640	75	957	1125 x 450 x 990

※ The above product data is subject to change without notice.

**Note:** The product pictures and dimensions above are specification diagrams for use by technician's installers and for layout reference only.

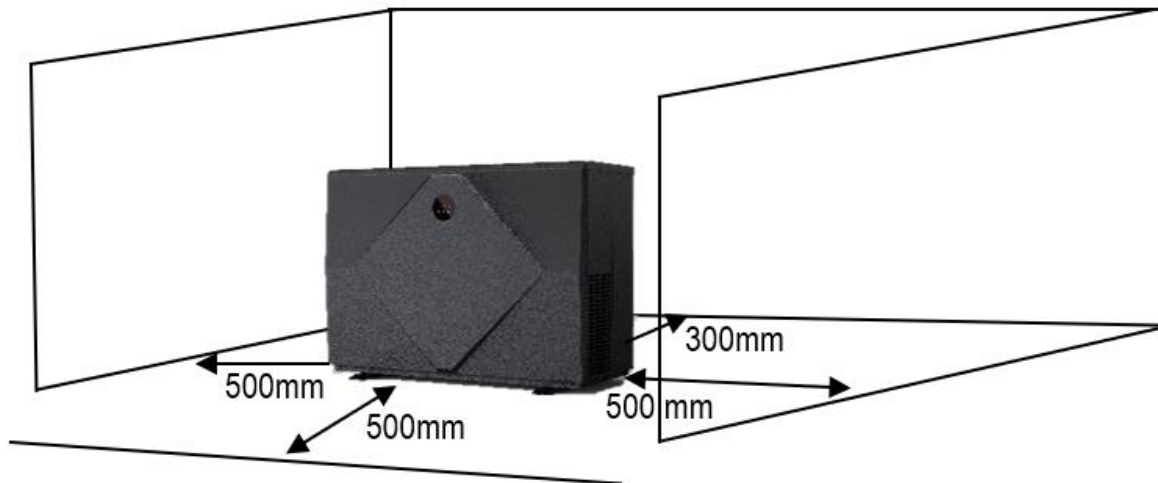


## Location and clearances

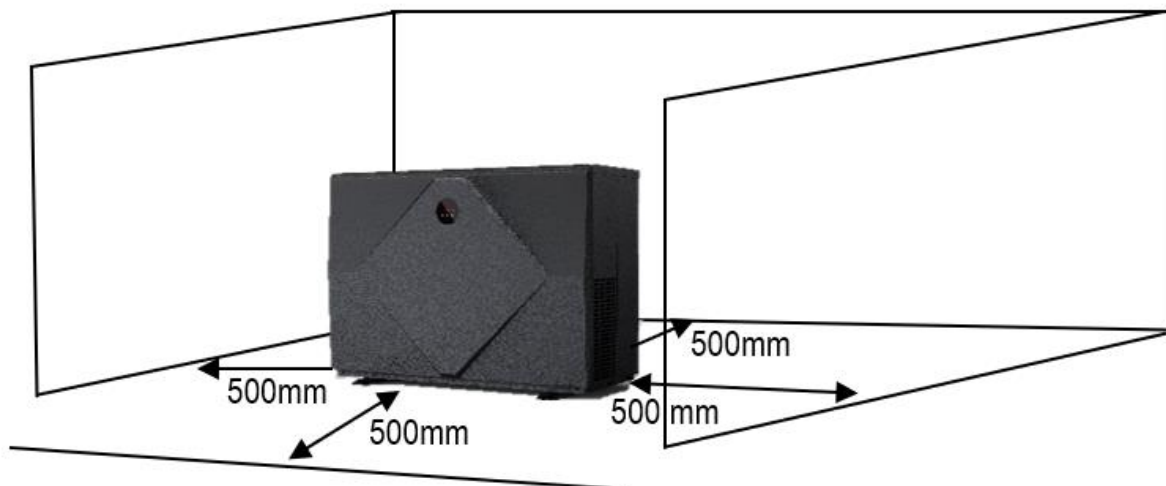


The heat pump is suitable for outdoor installation only and requires the following clearances to ensure the correct movement of air and for service access:

### For the 16kw unit and below models



### For the 21kw unit and above models



#### Remarks:

The heat pump RPH009-1A, RPH013-1A, RPH016-1A, RPH021-1A, are all able to perform normally within air temp  $-5^{\circ}\text{C}\sim+43^{\circ}\text{C}$  and the RPH028-1A, RPH028-3A can perform normally within air temp  $-10^{\circ}\text{C}\sim+43^{\circ}\text{C}$ . Efficiency cannot be guaranteed out of this range. Please take into consideration that the pool heat pump performance and parameters are different under various conditions.