Aquarea DHW Heat Pumps

Using the natural refrigerant R290, Aquarea DHW Heat Pumps achieve the highest A+ energy efficiency class in their category, significantly reducing energy consumption and CO_2 emissions compared to electric heaters. The range includes wall-mounted and floor-standing models with tank capacities from 100 to 260 litres, designed to meet different household needs.



- A+ HIGH PERFORMANCE AND A+ ENERGY RANK
- -7°C +43°C WIDE OPERATION RANGE
- SAVES MAINTENANCE TIME WITH DRY CHECK FOR MAGNESIUM ANODE
- USER-FRIENDLY TOUCH CONTROL



R290

Check all our certified heat pumps on:
www.heatpumpkeymark.com

Aquarea DHW Heat Pumps

Type		Wall-mounted		Floor-standing			
Reference		**P-DHW100AE5**	**P-DHW150AE5**	**P-DHW200AE5**	**P-DHW200CAE5**	**P-DHW260AE5**	**P-DHW260CAE5**
Performance according to EN 16147							
Reference hot water temperature (T_{ref})	°C	55	55	55	55	55	55
Heating up time (A +14 °C / W 55 °C)	h:m	5:44	8:36	7:24	7:11	9:20	9:37
Heating up time (A +7 °C / W 55 °C)	h:m	6:44	9:48	7:47	7:38	10:24	10:27
Heating up time (A +2 °C / W 55 °C)	h:m	9:53	12:10	11:21	11:14	14:35	14:45
Heating up time in BOOST mode (A +7 °C / W 10-55 °C)	h:m	2:37	4:16	3:43	3:39	4:39	4:55
DHW tank ERP efficiency average / warm / cold	A+ to F	A+/A++/A	A+/A+/A+	A+/A++/A	A+/A++/A	A+/A++/A	A+/A+/A
DHW tank ERP average climate η / COPdHW	ηwh %/COPdHW	116/2,80	122 / 3,00	145 / 3,48	140 / 3,36	146 / 3,52	145 / 3,48
DHW tank ERP warm climate η / COPdHW	ηwh %/COPdHW	133/3,20	137 / 3,40	154 / 3,76	150 / 3,61	155 / 3,78	154 / 3,76
DHW tank ERP cold climate η / COPdHW	ηwh %/COPdHW	92/2,20	109 / 2,70	114 / 2,79	108/2,63	115 / 2,81	114 / 2,79
Indoor sound power [1]	dB(A)	46	46	50	50	50	50
Outdoor sound power [1]	dB(A)	51	51	56	56	56	56
Load profile		M	L	L	L	XL	XL
Water volume	L	100	142	202	194	260	251
Water volume of mixed water at 40 °C / V40	L	128	173	278	267	359	348
Additional coil exchanger connection		—	—	—	1"M	—	1"M
Additional coil surface	m²	—	—	—	1,05	—	1,05
Anticorrosion system	Anode	Magnesium	Magnesium	Magnesium	Magnesium	Magnesium	Magnesium
Anti-legionella cycle		Yes	Yes	Yes	Yes	Yes	Yes
Maximum working pressure - storage tank	Mpa (bar)	0,8 (8)	0,8 (8)	0,8 (8)	0,8 (8)	0,8 (8)	0,8 (8)
Dimension (H x W x D)	mm	1351 x 520 x 541	1682 x 520 x 541	1621 x 705 x 694	1621 x 705 x 694	1911 x 705 x 694	1911 x 705 x 694
Empty weight	kg	56	71	96	110	113	127
Heat pump air intake temperature range	°C	-5 ~ +43	-5 ~ +43	-7 ~ +43	-7 ~ +43	-7 ~ +43	-7 ~ +43
Maximum water temperature / with heater	°C	60 / 70	60 / 70	65/75	65/75	65/75	65/75
Refrigerant charge (R290)	kg	0,15	0,15	0,15	0,15	0,15	0,15
Power supply / frequency	V / Hz	230/50	230/50	230/50	230/50	230/50	230/50
Total maximum power consumption	W	1726	1726	1970	1970	1970	1970
Heat pump maximum power consumption	W	226	226	470	470	470	470
Electric heating element power consumption	W	1500	1500	1500	1500	1500	1500
Nominal air flow	m³/h	235	235	360	360	360	360
Available external pressure	Pa	71	71	88	88	88	88
Duct diameter	mm	125	125	160	160	160	160

1) According to EN12102.

Wall mounted version..
- 100 L and 150 L DHW tank
- Wide operating range from -5 to +43 °C.
- 60 °C hot water only with heat pump



Floor standing version.
- 200 L and 260 L DHW tank
- Version with additional coil for operation with other heat sources such as PV panels
- Wide operating range from -7 to +43 °C
- 65 °C hot water only with heat pump



Space saving design

Side air ducts for easy installation in rooms as small as 2 metres high.



