

AHG R32AW Series

EVI DC Inverter Heat Pumps

Edition 1.2



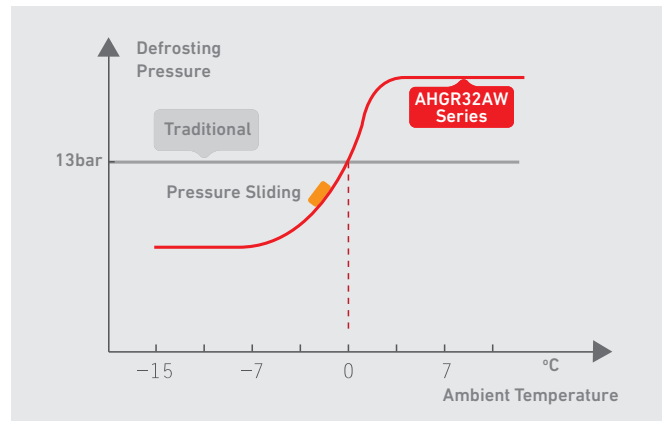
AHG R32AW Series

EVI DC Inverter Heat Pumps

With the advanced new technology of an EVI DC Inverter, the AHG R32 AW can be used in extremely cold area for heating/cooling, hot water.

EVI DC Inverter Technology

With advanced new technology of EVI DC Inverter, the unit is capable of producing 60°C domestic hot water. And according to laboratory testing (basing on ErP test standard), the energy level can reach A++.



Smart Colorful Touch Display

R32 wire controller features a 5-inch smart colorful touch display which is installed on the wall. Featuring 0.5°C precise control, water temperature curve display, easy timing, one-key mute and more, it provides an easy and convenient user experience.

Intelligent Defrosting

Intelligent defrosting uses the pressure sliding defrosting technology to figure out the exact defrosting time and start pressure according to the real ambient temperature. It saves energy and makes the heat pump work in high efficiency.

Water Temperature up to 60°C

Thanks to EVI technology, the R32 features a wide operating temperature range. It means they can reach high water temperatures. Even in cold climates, it can work safely and reliably at an ambient temperature as low as -30°C with Wet Injection Technology.

Low Global Warming Potential

Compared to the refrigerants widely used today, such as R22 and R410A, R32 has a global warming potential that is two-thirds lower and it is remarkable for its low environmental impact, which has led to increasing popularity in the industry.

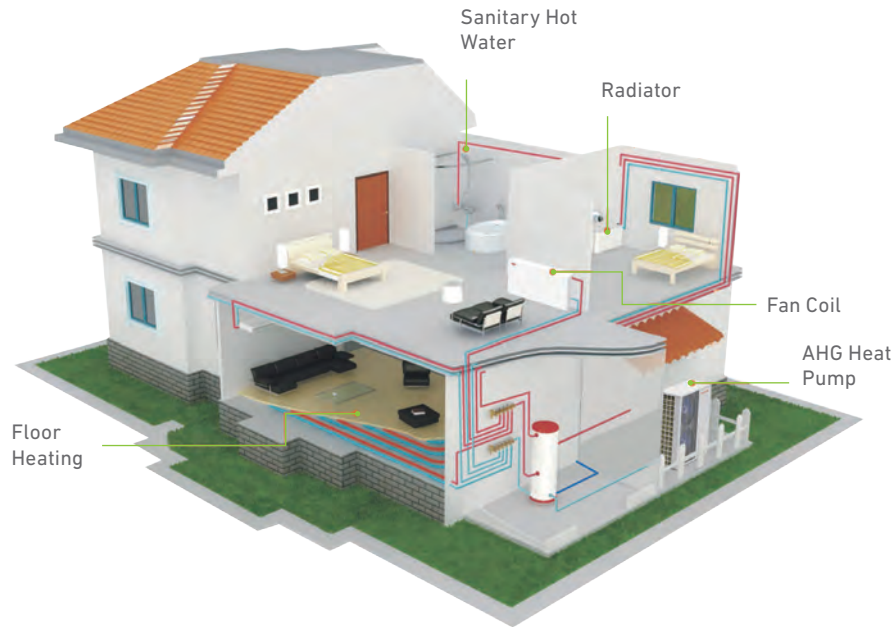
Technical Data



Model		AHGR32AW6	AHGR32AW10	AHGR32AW17
Heating Condition - Ambient Temp. (DB/WB): 7/6°C, Water Temp. (In/Out): 30/35°C				
Heating Capacity Range	kW	2.29~8.25	4.70~12.5	6.0~20.0
	BTU/h	7814~28150	16037~42652	20472~68240
Heating Power Input Range	kW	0.63~1.81	1.08~3.44	1.5~5.0
Heating Condition - Ambient Temp. (DB/WB): 7/6°C, Water Temp. (In/Out): 50/55°C				
Heating Capacity Range	kW	1.58~7.39	3.58~12.1	5.5~18.0
	BTU/h	5391~25216	3685~41287	18766~61416
Heating Power Input Range	kW	1.04~2.76	1.82~4.13	2.0~7.5
Heating Condition - Ambient Temp. (DB/WB): 2/1°C, Water Temp. (In/Out): 30/35°C				
Heating Capacity Range	kW	1.64~7.04	3.41~8.32	5.5~17.0
	BTU/h	5596~24021	11601~28389	18766~58004
Heating Power Input Range	kW	0.69~1.87	1.07~2.95	1.5~5.0
Heating Condition - Ambient Temp. (DB/WB): 2/1°C, Water Temp. (In/Out): 50/55°C				
Heating Capacity Range	kW	1.15~6.72	2.84~8.04	5.5~15.0
	BTU/h	3924~22930	9690~27434	18766~51180
Heating Power Input Range	kW	0.97~2.73	1.62~4.31	2.2~7.4
Heating Condition - Ambient Temp. (DB/WB): -7/-8°C, Water Temp. (In/Out): 30/35°C				
Heating Capacity Range	kW	2.20~5.62	2.28~8.64	4.6~14.5
	BTU/h	7507~19176	7780~29481	15695~49474
Heating Power Input Range	kW	0.91~1.87	1.06~3.04	1.5~5.0
Heating Condition - Ambient Temp. (DB/WB): -7/-8°C, Water Temp. (In/Out): 50/55°C				
Heating Capacity Range	kW	1.39~5.54	2.24~8.32	4.5~14.0
	BTU/h	4743~18903	7643~28389	15354~47768
Heating Power Input Range	kW	1.26~2.60	1.74~4.25	2.2~7.3
Cooling Condition - Ambient Temp. (DB/WB): 35/24°C, Water Temp. (In/Out): 12/7°C				
Cooling Capacity Range	kW	1.98~6.1	3.22~11.30	4.2~14.0
	BTU/h	6756~20814	10987~38557	14330~47768
Cooling Power Input Range	kW	0.7~2.22	1.27~3.44	1.8~7..5
Frequency	Hz	30~90	30~90	30~90
ErP Level (35°C)	/	/	/	A++
ErP Level (55°C)	/	/	/	A++
Power Supply	/	230V~/30-90Hz	380V/3N~/30-90Hz	
Electric Heater	kW	/	/	/
Max. Running Current	A	13.0	7.5	13.5
Refrigerant Type	/	R32		
Refrigerant Volume	g	1300	1600	1800
Compressor Brand	/	Panasonic	Panasonic	Panasonic
Water Pump Brand	/	GRUNDFOS	GRUNDFOS	GRUNDFOS
Water Connection	Inch	1.0	1.0	1.2
Water Flow	m3/h	1.0	1.7	2.15
Water Pressure Drop	kPa	32	22	45
Water Pump Head	m	5.5	5.5	4
DC Fan Quantity	/	1	1	2
DC Fan Power Input (max)	W	75	70	130
DC Fan Power Input (min)	W	27	27	45
DC Fan Speed (max)	RPM	850	850	850
DC Fan Speed (min)	RPM	300	300	300
Noise	dB(A)	37~54	44~58	44~58
Net Weight	kg	90	100	155
Gross Weight	kg	102	123	175
Net Dimension (L/W/H)	mm	1052×490×805	1000×470×915	1000×395×1315
Shipping Dimension (L/W/H)	mm	1060×500×825	1040×490×920	1080×445×1480
Operation Ambient Temp.	°C	-25~43	-25~43	-25~43
Max. Outlet Water Temp.	°C	60	60	60

Application

The AHGR32AW Series suits a wide variety of applications, including space heating, pool heating and domestic hot water production for residential, commercial and industrial projects.



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