

**SUMMARY OF
REPORT NO. GZ10050798-2
PERFORMANCE TESTS APPLY TO
MODEL NO. AVH-12V1DAA/B
AIR-SOURCE HEAT PUMP WATER HEATER**

RENDERED TO
Zhongshan Amitime Electric Co., Ltd.
5 th Yandong Rd., Dayan Industrial Zone, Huangpu Town, Zhongshan City,
Guangdong, China

ISSUED BY
Intertek Testing Services Shenzhen Ltd. Guangzhou Branch
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Test General

This report gives the results of Performance Tests of ONE sample of Model **AVH-12V1DAA/B** Air-Source Heat Pump Water Heater which uses electricity to move heat from air to water by refrigerating system driven by compressor.

Air-source heat pump water heater details:

Brand:	AMITIME
Model name: (if applicable)	AVH-12V1DAA/B
Model number: (indoor unit if split system)	AVH-12V1DAA/B
Model number: (outdoor unit if split system)	AVH-12V1DAA/B
Air conditioner type:	
☐ Cooling only ☒ Heating only ☐ Cooling and heating	
Serial number(s) of unit tested: (of package unit or indoor unit if split system)	100106-ID-0002
Serial number(s) of unit tested: (of outdoor unit if split system)	100106-OD-0002
Rated voltage: V (of package unit or indoor unit if split system)	220
Rated voltage: V (of outdoor unit if split system)	220
Rated frequency: Hz	50
Rated cooling capacity (condition T1): W	1000-4600
Rated effective power input, cooling: W	495-1650
Rated EER (condition T1): W/W	2.02/2.79
Rated heating capacity (condition H1): W	1400-5270
Rated effective power input, heating: W	500-1600
Rated COP: W/W	2.80/3.29
Does this air conditioner use a variable speed drive or multi-speed compressor?	
☒ Yes ☐ No	

Note: N.A. = Not Applicable. (Test case does not apply to the test object)

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Test Standard

The Heating Capacity Tests were conducted in accordance with the following standards:

EN 14511-1: 2007	Air conditioners, liquid chilling packages and heat pumps with electrically driven compressors for space heating and cooling - Part 1: Terms and definitions
EN 14511-2: 2007	Air conditioners, liquid chilling packages and heat pumps with electrically driven compressors for space heating and cooling - Part 2: Test conditions
EN 14511-3: 2007	Air conditioners, liquid chilling packages and heat pumps with electrically driven compressors for space heating and cooling - Part 3: Test methods

Note: The supplementary resistive heating element, if any, is not included in the Heating Capacity Test.

The test conditions and test methods were required by the client.

Test Method

The heating capacity of air-to-water heat pumps and liquid chilling packages was determined in accordance with the direct method at the water heat exchanger, by determination of the volume flow of the heat transfer medium, and the inlet and outlet temperatures, taking into consideration the specific heat capacity and density of the heat transfer medium. The tests were performed on a prototype.

The unit was installed and connected for the test as recommended by the manufacturer in the installation and operation manual.

The laboratory was investigated by an Intertek representative and found to comply with the requirements referred to the standards mentioned above.

Test Summary

Testing was performed at the air-to-water heat pumps and liquid chilling packages was determined in accordance with the direct method at the water heat exchanger **for Heating Capacity Tests, Shunde Polytechnic. Address: East Desheng Road, Shunde, Guangdong Province 528300, China.**

Test Condition

The following heating performance test conditions were required by **Zhongshan Amitime Electric Co., Ltd.**

Test Condition	A	B	C	D	E	F	G	H
Outdoor Side, dry-bulb (°C)	7	7	2	2	-7	-7	-15	-15
Outdoor Side, wet-bulb (°C)	6	6	1	1	-8	-8	--	--
Water temperature, Inlet (°C)	40	30	--	--	--	--	--	--
Water temperature, Outlet (°C)	45	--	45	35	45	35	45	35

A. Heating Capacity Test

Date of Test	May 26, 2010	May 26, 2010	May 26, 2010	May 26, 2010
Compressor frequency (Hz)	85	56	47	30
Room Air Temperatures, Adjacent to Inlet of Test Unit				
Outdoor condition - mean dry bulb (°C)	6.91	6.92	6.96	6.93
Outdoor condition - maximum variation dry bulb (max - min) (°C)	7.20 - 6.70	7.25 - 6.72	7.02 - 6.89	7.03 - 6.85
Outdoor condition - mean wet bulb (°C)	5.96	5.95	5.97	5.93
Outdoor condition - maximum variation wet bulb (max - min) (°C)	6.29 - 5.71	6.25 - 5.73	6.02 - 5.90	6.07 - 5.95
Average water temperature - Inlet (°C)	41.63	42.74	43.08	43.79
Average water temperature - Outlet (°C)	45.02	45.02	45.08	45.20
Average water flow rate (kg/s)	0.311	0.313	0.310	0.310
Enthalpy				
Stabilization period (minutes)	> 70	> 70	> 70	> 70
Test period (minutes)	> 180	> 180	> 180	> 180
Reading frequency (minute)	< 0.5	< 0.5	< 0.5	< 0.5
Electrical Quantities				
Supply voltage (V)	230.3	230.3	230.1	230.2
Supply frequency (Hz)	50.00	50.00	50.00	50.00
Average current (Phase 1) (A)	6.67	4.23	3.54	2.77
Measured Total Power Input (W)	1535.2	974.0	815.4	638.0
Power Factor (%)	92.45	92.11	92.02	92.08
Defrosting Occurred				
Did the unit enter a defrost cycle during the test?	☐ Yes/ ☒ No	☐ Yes/ ☒ No	☐ Yes/ ☒ No	☐ Yes/ ☒ No
If so, what is the average interval between defrosts? (Minutes)	N.A.	N.A.	N.A.	N.A.
Number of Complete Defrost Cycles	N.A.	N.A.	N.A.	N.A.
Duration of All Complete Defrost Cycles,	N.A.	N.A.	N.A.	N.A.
Defrosting Time in One Representative Complete Defrost Cycle, minutes	N.A.	N.A.	N.A.	N.A.
Heating Time in One Representative Complete Defrost Cycle, minutes	N.A.	N.A.	N.A.	N.A.
Results				
Measured Total Heating Capacity (W)	4407	2983	2592	1827
Measured Coefficient of Performance (W/W)	2.87	3.06	3.18	2.86

Note: N.A. = Not Applicable. (Test case does not apply to the test object)

B. Heating Capacity Test

Date of Test	May 26, 2010	May 26, 2010	May 26, 2010	May 26, 2010
Compressor frequency (Hz)	85	56	47	30
Room Air Temperatures, Adjacent to Inlet of Test Unit				
Outdoor condition - mean dry bulb (°C)	7.03	7.02	7.05	6.97
Outdoor condition - maximum variation dry bulb (max - min) (°C)	7.23 - 6.75	7.18 - 6.89	7.25 - 6.73	7.20 - 6.80
Outdoor condition - mean wet bulb (°C)	6.00	6.02	6.06	6.00
Outdoor condition - maximum variation wet bulb (max - min) (°C)	6.21 - 5.88	6.23 - 5.73	6.20 - 5.79	6.18 - 5.83
Average water temperature - Inlet (°C)	30.11	30.17	30.10	30.09
Average water temperature - Outlet (°C)	34.16	32.86	32.51	31.68
Average water flow rate (kg/s)	0.310	0.312	0.311	0.314
Enthalpy				
Stabilization period (minutes)	> 70	> 70	> 70	> 70
Test period (minutes)	> 180	> 180	> 180	> 180
Reading frequency (minute)	< 0.5	< 0.5	< 0.5	< 0.5
Electrical Quantities				
Supply voltage (V)	230.5	230.2	230.3	230.5
Supply frequency (Hz)	50.00	50.00	50.00	50.00
Average current (Phase 1) (A)	5.87	3.76	3.22	2.34
Measured Total Power Input (W)	1353.5	864.7	741.9	540.0
Power Factor (%)	92.68	92.55	92.47	92.24
Defrosting Occurred				
Did the unit enter a defrost cycle during the test?	☐ Yes/ ☒ No	☐ Yes/ ☒ No	☐ Yes/ ☒ No	☐ Yes/ ☒ No
If so, what is the average interval between defrosts? (Minutes)	N.A.	N.A.	N.A.	N.A.
Number of Complete Defrost Cycles	N.A.	N.A.	N.A.	N.A.
Duration of All Complete Defrost Cycles,	N.A.	N.A.	N.A.	N.A.
Defrosting Time in One Representative Complete Defrost Cycle, minutes	N.A.	N.A.	N.A.	N.A.
Heating Time in One Representative Complete Defrost Cycle, minutes	N.A.	N.A.	N.A.	N.A.
Results				
Measured Total Heating Capacity (W)	5248	3508	3133	2087
Measured Coefficient of Performance (W/W)	3.88	4.06	4.22	3.86

Note: N.A. = Not Applicable. (Test case does not apply to the test object)

C. Heating Capacity Test

Date of Test	May 28, 2010	May 28, 2010	May 28, 2010	May 28, 2010
Compressor frequency (Hz)	85	56	47	30
Room Air Temperatures, Adjacent to Inlet of Test Unit				
Outdoor condition - mean dry bulb (°C)	2.11	2.15	2.05	2.01
Outdoor condition - maximum variation dry bulb (max - min) (°C)	2.25 - 1.98	2.23 - 1.98	2.28 - 1.93	2.21 - 1.87
Outdoor condition - mean wet bulb (°C)	0.99	0.95	1.01	0.95
Outdoor condition - maximum variation wet bulb (max - min) (°C)	1.15 - 0.82	1.10 - 0.80	1.10 - 0.80	1.03 - 0.81
Average water temperature - Inlet (°C)	42.26	43.17	43.43	43.70
Average water temperature - Outlet (°C)	45.09	45.07	45.02	45.00
Average water flow rate (kg/s)	0.307	0.310	0.314	0.309
Enthalpy				
Stabilization period (minutes)	> 70	> 70	> 70	> 70
Test period (minutes)	> 180	> 180	> 180	> 180
Reading frequency (minute)	< 0.5	< 0.5	< 0.5	< 0.5
Electrical Quantities				
Supply voltage (V)	230.2	230.3	230.2	230.4
Supply frequency (Hz)	50.00	50.00	50.00	50.00
Average current (Phase 1) (A)	5.88	3.79	3.48	2.46
Measured Total Power Input (W)	1354.2	872.5	802.0	566.0
Power Factor (%)	92.87	92.49	92.57	92.61
Defrosting Occurred				
Did the unit enter a defrost cycle during the test?	☐ Yes/ ☒ No	☐ Yes/ ☒ No	☐ Yes/ ☒ No	☐ Yes/ ☒ No
If so, what is the average interval between defrosts? (Minutes)	N.A.	N.A.	N.A.	N.A.
Number of Complete Defrost Cycles	N.A.	N.A.	N.A.	N.A.
Duration of All Complete Defrost Cycles,	N.A.	N.A.	N.A.	N.A.
Defrosting Time in One Representative Complete Defrost Cycle, minutes	N.A.	N.A.	N.A.	N.A.
Heating Time in One Representative Complete Defrost Cycle, minutes	N.A.	N.A.	N.A.	N.A.
Results				
Measured Total Heating Capacity (W)	3632	2462	2087	1679
Measured Coefficient of Performance (W/W)	2.68	2.82	2.60	2.97

Note: N.A. = Not Applicable. (Test case does not apply to the test object)

D. Heating Capacity Test

Date of Test	May 28, 2010	May 28, 2010	May 27, 2010	May 27, 2010
Compressor frequency (Hz)	85	56	47	30
Room Air Temperatures, Adjacent to Inlet of Test Unit				
Outdoor condition - mean dry bulb (°C)	2.05	2.14	2.11	2.02
Outdoor condition - maximum variation dry bulb (max - min) (°C)	2.18 - 1.84	2.21 - 2.04	2.25 - 1.98	2.18 - 1.86
Outdoor condition - mean wet bulb (°C)	1.04	1.01	0.99	0.94
Outdoor condition - maximum variation wet bulb (max - min) (°C)	1.17 - 0.82	1.10 - 0.85	1.25 - 0.83	1.09 - 0.74
Average water temperature - Inlet (°C)	31.82	32.83	33.21	33.52
Average water temperature - Outlet (°C)	35.14	35.13	35.10	35.14
Average water flow rate (kg/s)	0.308	0.310	0.311	0.306
Enthalpy				
Stabilization period (minutes)	> 70	> 70	> 70	> 70
Test period (minutes)	> 180	> 180	> 180	> 180
Reading frequency (minute)	< 0.5	< 0.5	< 0.5	< 0.5
Electrical Quantities				
Supply voltage (V)	230.2	230.3	230.2	230.5
Supply frequency (Hz)	50.00	50.00	50.00	50.00
Average current (Phase 1) (A)	5.27	3.51	3.13	2.29
Measured Total Power Input (W)	1213.1	808.9	720.1	527.1
Power Factor (%)	93.02	93.15	93.24	92.98
Defrosting Occurred				
Did the unit enter a defrost cycle during the test?	☐ Yes/ ☒ No	☐ Yes/ ☒ No	☐ Yes/ ☒ No	☐ Yes/ ☒ No
If so, what is the average interval between defrosts? (Minutes)	N.A.	N.A.	N.A.	N.A.
Number of Complete Defrost Cycles	N.A.	N.A.	N.A.	N.A.
Duration of All Complete Defrost Cycles,	N.A.	N.A.	N.A.	N.A.
Defrosting Time in One Representative Complete Defrost Cycle, minutes	N.A.	N.A.	N.A.	N.A.
Heating Time in One Representative Complete Defrost Cycle, minutes	N.A.	N.A.	N.A.	N.A.
Results				
Measured Total Heating Capacity (W)	4274	2980	2457	2072
Measured Coefficient of Performance (W/W)	3.52	3.68	3.41	3.93

Note: N.A. = Not Applicable. (Test case does not apply to the test object)

E. Heating Capacity Test

Date of Test	May 27, 2010	May 27, 2010	May 27, 2010	May 27, 2010
Compressor frequency (Hz)	85	56	47	30
Room Air Temperatures, Adjacent to Inlet of Test Unit				
Outdoor condition - mean dry bulb (°C)	-7.01	-7.13	-7.04	-7.03
Outdoor condition - maximum variation dry bulb (max - min) (°C)	-6.85--7.27	-6.77--7.19	-6.80--7.19	-6.83--7.20
Outdoor condition - mean wet bulb (°C)	-7.93	-7.85	-8.01	-7.89
Outdoor condition - maximum variation wet bulb (max - min) (°C)	-7.72--7.98	-7.80--8.01	-7.94--8.16	-7.74--8.15
Average water temperature - Inlet (°C)	43.01	43.74	43.94	44.20
Average water temperature - Outlet (°C)	45.10	45.15	45.13	45.11
Average water flow rate (kg/s)	0.311	0.308	0.313	0.310
Enthalpy				
Stabilization period (minutes)	> 70	> 70	> 70	> 70
Test period (minutes)	> 180	> 180	> 180	> 180
Reading frequency (minute)	< 0.5	< 0.5	< 0.5	< 0.5
Electrical Quantities				
Supply voltage (V)	230.3	230.5	230.5	230.5
Supply frequency (Hz)	50.00	50.00	50.00	50.00
Average current (Phase 1) (A)	5.98	3.73	3.42	2.47
Measured Total Power Input (W)	1376.4	859.3	788.3	569.7
Power Factor (%)	93.02	92.89	92.94	92.85
Defrosting Occurred				
Did the unit enter a defrost cycle during the test?	☐ Yes/ ☒ No	☐ Yes/ ☒ No	☐ Yes/ ☒ No	☐ Yes/ ☒ No
If so, what is the average interval between defrosts? (Minutes)	N.A.	N.A.	N.A.	N.A.
Number of Complete Defrost Cycles	N.A.	N.A.	N.A.	N.A.
Duration of All Complete Defrost Cycles,	N.A.	N.A.	N.A.	N.A.
Defrosting Time in One Representative Complete Defrost Cycle, minutes	N.A.	N.A.	N.A.	N.A.
Heating Time in One Representative Complete Defrost Cycle, minutes	N.A.	N.A.	N.A.	N.A.
Results				
Measured Total Heating Capacity (W)	2717	1815	1557	1179
Measured Coefficient of Performance (W/W)	1.97	2.11	1.98	2.07

Note: N.A. = Not Applicable. (Test case does not apply to the test object)

F. Heating Capacity Test

Date of Test	May 27, 2010	May 27, 2010	May 27, 2010	May 27, 2010
Compressor frequency (Hz)	85	56	47	30
Room Air Temperatures, Adjacent to Inlet of Test Unit				
Outdoor condition - mean dry bulb (°C)	-7.08	-7.15	-7.02	-7.01
Outdoor condition - maximum variation dry bulb (max - min) (°C)	-6.84--7.23	-6.87--7.22	-6.92--7.15	-6.92--7.15
Outdoor condition - mean wet bulb (°C)	-7.93	-8.07	-7.86	-7.83
Outdoor condition - maximum variation wet bulb (max - min) (°C)	-7.84--8.07	-7.93--8.15	-7.71--8.08	-7.82--8.01
Average water temperature - Inlet (°C)	32.65	33.46	33.61	34.15
Average water temperature - Outlet (°C)	35.14	35.16	35.10	35.16
Average water flow rate (kg/s)	0.311	0.310	0.312	0.312
Enthalpy				
Stabilization period (minutes)	> 70	> 70	> 70	> 70
Test period (minutes)	> 180	> 180	> 180	> 180
Reading frequency (minute)	< 0.5	< 0.5	< 0.5	< 0.5
Electrical Quantities				
Supply voltage (V)	230.3	230.1	230.3	230.2
Supply frequency (Hz)	50.00	50.00	50.00	50.00
Average current (Phase 1) (A)	5.39	3.33	3.20	2.24
Measured Total Power Input (W)	1241.4	766.6	736.7	516.94
Power Factor (%)	94.13	93.78	93.54	92.77
Defrosting Occurred				
Did the unit enter a defrost cycle during the test?	☐ Yes/ ☒ No	☐ Yes/ ☒ No	☐ Yes/ ☒ No	☐ Yes/ ☒ No
If so, what is the average interval between defrosts? (Minutes)	N.A.	N.A.	N.A.	N.A.
Number of Complete Defrost Cycles	N.A.	N.A.	N.A.	N.A.
Duration of All Complete Defrost Cycles,	N.A.	N.A.	N.A.	N.A.
Defrosting Time in One Representative Complete Defrost Cycle, minutes	N.A.	N.A.	N.A.	N.A.
Heating Time in One Representative Complete Defrost Cycle, minutes	N.A.	N.A.	N.A.	N.A.
Results				
Measured Total Heating Capacity (W)	3237	2203	1943	1317
Measured Coefficient of Performance (W/W)	2.61	2.87	2.64	2.55

Note: N.A. = Not Applicable. (Test case does not apply to the test object)

G. Heating Capacity Test

Date of Test	May 29, 2010	May 29, 2010	May 29, 2010	May 29, 2010
Compressor frequency (Hz)	85	56	47	30
Room Air Temperatures, Adjacent to Inlet of Test Unit				
Outdoor condition - mean dry bulb (°C)	-14.96	-14.99	-15.04	-15.11
Outdoor condition - maximum variation dry bulb (max - min) (°C)	-14.72 - -15.27	-14.81 - -15.18	-14.82 - -15.24	-14.92 - -15.27
Outdoor condition - mean wet bulb (°C)	-18.03	-18.13	-18.09	-18.02
Outdoor condition - maximum variation wet bulb (max - min) (°C)	-17.87 - -18.17	-17.98 - -18.29	-17.94 - -18.21	-17.85 - -18.11
Average water temperature - Inlet (°C)	43.15	43.90	44.05	44.41
Average water temperature - Outlet (°C)	45.14	45.10	45.04	45.12
Average water flow rate (kg/s)	0.313	0.311	0.310	0.308
Enthalpy				
Stabilization period (minutes)	> 70	> 70	> 70	> 70
Test period (minutes)	> 180	> 180	> 180	> 180
Reading frequency (minute)	< 0.5	< 0.5	< 0.5	< 0.5
Electrical Quantities				
Supply voltage (V)	230.5	230.4	230.2	230.2
Supply frequency (Hz)	50.00	50.00	50.00	50.00
Average current (Phase 1) (A)	5.86	3.66	3.20	2.44
Measured Total Power Input (W)	1350.4	842.8	736.5	562.0
Power Factor (%)	94.07	93.87	93.48	93.54
Defrosting Occurred				
Did the unit enter a defrost cycle during the test?	☐ Yes/ ☒ No	☐ Yes/ ☒ No	☐ Yes/ ☒ No	☐ Yes/ ☒ No
If so, what is the average interval between defrosts? (Minutes)	N.A.	N.A.	N.A.	N.A.
Number of Complete Defrost Cycles	N.A.	N.A.	N.A.	N.A.
Duration of All Complete Defrost Cycles,	N.A.	N.A.	N.A.	N.A.
Defrosting Time in One Representative Complete Defrost Cycle, minutes	N.A.	N.A.	N.A.	N.A.
Heating Time in One Representative Complete Defrost Cycle, minutes	N.A.	N.A.	N.A.	N.A.
Results				
Measured Total Heating Capacity (W)	2604	1560	1283	914
Measured Coefficient of Performance (W/W)	1.93	1.85	1.74	1.63

Note: N.A. = Not Applicable. (Test case does not apply to the test object)

H. Heating Capacity Test

Date of Test	May 28, 2010	May 28, 2010	May 28, 2010	May 28, 2010
Compressor frequency (Hz)	85	56	47	30
Room Air Temperatures, Adjacent to Inlet of Test Unit				
Outdoor condition - mean dry bulb (°C)	-15.07	-15.01	-14.96	-14.90
Outdoor condition - maximum variation dry bulb (max - min) (°C)	-14.84 - -15.19	-14.79 - -15.08	-14.80 - -15.06	-14.72 - -14.98
Outdoor condition - mean wet bulb (°C)	-18.04	-18.11	-17.95	-17.91
Outdoor condition - maximum variation wet bulb (max - min) (°C)	-17.85 - -18.14	-18.01 - -18.25	-17.85 - -18.04	-17.74 - -17.99
Average water temperature - Inlet (°C)	33.02	33.70	33.91	34.29
Average water temperature - Outlet (°C)	35.10	35.09	35.12	35.11
Average water flow rate (kg/s)	0.313	0.311	0.308	0.307
Enthalpy				
Stabilization period (minutes)	> 70	> 70	> 70	> 70
Test period (minutes)	> 180	> 180	> 180	> 180
Reading frequency (minute)	< 0.5	< 0.5	< 0.5	< 0.5
Electrical Quantities				
Supply voltage (V)	230.5	230.4	230.5	230.
Supply frequency (Hz)	50.00	50.00	50.00	50.00
Average current (Phase 1) (A)	5.13	3.17	2.88	2.04
Measured Total Power Input (W)	1182.6	731.5	663.2	470.9
Power Factor (%)	94.04	93.65	93.54	93.27
Defrosting Occurred				
Did the unit enter a defrost cycle during the test?	☐ Yes/ ☒ No	☐ Yes/ ☒ No	☐ Yes/ ☒ No	☐ Yes/ ☒ No
If so, what is the average interval between defrosts? (Minutes)	N.A.	N.A.	N.A.	N.A.
Number of Complete Defrost Cycles	N.A.	N.A.	N.A.	N.A.
Duration of All Complete Defrost Cycles,	N.A.	N.A.	N.A.	N.A.
Defrosting Time in One Representative Complete Defrost Cycle, minutes	N.A.	N.A.	N.A.	N.A.
Heating Time in One Representative Complete Defrost Cycle, minutes	N.A.	N.A.	N.A.	N.A.
Results				
Measured Total Heating Capacity (W)	2721	1807	1558	1052
Measured Coefficient of Performance (W/W)	2.30	2.47	2.35	2.23

Note: N.A. = Not Applicable. (Test case does not apply to the test object)

DC Inverter Type Air To Water Unit

Model Number: AVH-12V1DAA/B
Input Voltage: 220V/1Ph/50Hz
Input Power-Cooling: 495-1,650 Watts
Input Power-Heating: 500-1,600 Watts
Min.Circuit Ampacity: 10 Amps
Max.Overcurrent Protection: 16 Amps
Cooling Capacity: 1,000-4,600 Watts
Heating Capacity: 1,400-5,270 Watts
Refrigerant: R410A
Max EER Cooling: 3.5 W/W
Max COP Heating: 4.22 W/W

Heat Pump   O:20100106

Serial Nr: 100106-ID-0002
 

Label of indoor unit for model no. AVH-12V1DAA/B

DC Inverter Type Air To Water Unit

Model Number: AVH-12V1DAA/B
Input Voltage: 220V/1Ph/50Hz
Input Power-Cooling: 495-1,650 Watts
Input Power-Heating: 500-1,600 Watts
Min.Circuit Ampacity: 10 Amps
Max.Overcurrent Protection: 16 Amps
Cooling Capacity: 1,000-4,600 Watts_
Heating Capacity: 1,400-5,270 Watts
Refrigerant: R410A/1,130 g
Max EER Cooling: 3.5 W/W
Max COP Heating: 4.22 W/W

Heat Pump



O:20100106

Serial Nr.

100106-OD-0002

**Label of outdoor unit for model no. AVH-12V1DAA/B**

Outline



Indoor unit overview

Note: All the indoors unit have the same models and identical except for the product profile.

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Outdoor unit overview

Note: All the outdoors unit have the same models and identical except for the product profile.

Controlled Components Table

Object/part No.	Manufacturer / trademark	Type/model	Technical data
Compressor	Matsushita Electric Industrial Co., Ltd.	5RS102XAB	DC 220V; R410A
Outdoor Fan Motor	Foshan Nanhai Songgang Junfeng Electrical Appliance Co., Ltd.	YDK-35-6G	220-240V; Class B; 0.43 A; 35 W
Alternative (Outdoor Fan Motor)	Zhejiang Lefeng Electrical Appliances Co.,Ltd.	YYF-400-6P	220V; 50Hz; 0.78A; 140W; Class B
Capacitor Of outdoor Fan Motor	Anhui Tongfeng Electronic Company Ltd.	CBB61	450 V; 50/60 Hz; 40/70/21; 2 μ F
Alternative (Capacitor Of outdoor Fan Motor)	Anhui Tongfeng Electronic Company Ltd.	CBB61	450 V; 50/60 Hz; 40/70/21; 4 μ F
Pump	Xinhu Electric Machine (shanghai) Co., Ltd.	GPD20-6S	220V; 50Hz; IP44; 0.45A; 100 W; Class B
Alternative (Pump)	Guangdong Lingxiao Pump Co., Ltd.	BGS20-60	220-240V, 50Hz; Class B; 0.45 A; 90 W

Conclusion

The results of these tests are for technical evaluation by **Zhongshan Amitime Electric Co., Ltd.** only and are applicable only to the specific test specimens described.

Tested by:

Reviewed by:



Jake He
Engineer



Jeff Zhang
Supervisor