



ERP DATA MANUAL

WELLEA MONOBLOC A

AW-WHPMA04-H91

AW-WHPMA06-H91

AW-WHPMA08-H91

AW-WHPMA10-H91

AW-WHPMA12-H91

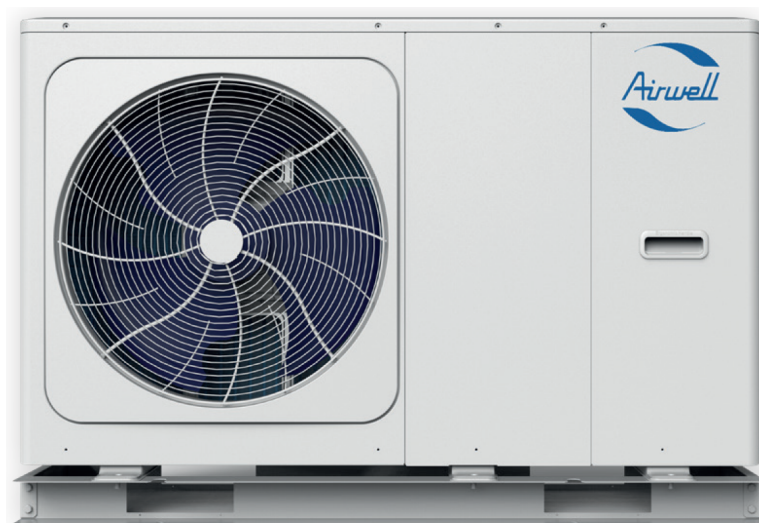
AW-WHPMA14-H91

AW-WHPMA16-H91

AW-WHPMA12-H93

AW-WHPMA14-H93

AW-WHPMA16-H93



Model	For medium - temperature application										
	Energy efficiency class	Unit sound power	average climate			colder climate			warmer climate		
			Rated heat output	Seasonal space heating energy efficiency	For space heating, annual energy consumption	Rated heat output	Seasonal space heating energy efficiency	For space heating, annual energy consumption	Rated heat output	Seasonal space heating energy efficiency	For space heating, annual energy consumption
	-	dB	kW	%	kWh	kW	%	kWh	kW	%	kWh
AW-WHPMA04-H91	A++	55	4.4	129.5	2744	3.4	102.1	3159	5.0	162.4	1621
AW-WHPMA06-H91	A++	58	5.7	137.9	3345	4.3	111.1	3681	5.1	164.7	1640
AW-WHPMA08-H91	A++	59	6.6	131.5	4056	5.8	112.0	4950	8.4	176.9	2485
AW-WHPMA10-H91	A++	60	7.7	135.6	4539	6.7	116.4	5540	8.6	180.3	2516
AW-WHPMA12-H91	A++	65	11.6	135.1	6927	10.3	117.8	8419	12.5	174.0	3776
AW-WHPMA14-H91	A++	65	12.1	135.6	7202	11.0	118.9	8866	14.2	174.9	4258
AW-WHPMA16-H91	A++	68	13.0	133.3	7895	11.8	121.8	9309	14.2	176.0	4231
AW-WHPMA12-H93	A++	65	11.6	135.1	6928	10.3	117.7	8420	12.5	173.8	3780
AW-WHPMA14-H93	A++	65	12.1	135.6	7203	11.0	118.9	8867	14.2	174.7	4262
AW-WHPMA16-H93	A++	68	13.0	133.2	7896	11.8	121.8	9310	14.2	175.8	4236

Model	For low - temperature application										
	Energy efficiency class	Unit sound power	average climate			colder climate			warmer climate		
			Rated heat output	Seasonal space heating energy efficiency	For space heating, annual energy consumption	Rated heat output	Seasonal space heating energy efficiency	For space heating, annual energy consumption	Rated heat output	Seasonal space heating energy efficiency	For space heating, annual energy consumption
	-	dB	kW	%	kWh	kW	%	kWh	kW	%	kWh
AW-WHPMA04-H91	A+++	55	5.5	191.0	2351	4.6	159.5	2769	5.5	255.4	1146
AW-WHPMA06-H91	A+++	58	6.8	195.0	2845	5.6	165.3	3300	6.1	259.8	1244
AW-WHPMA08-H91	A+++	59	8.1	205.6	3218	7.0	170.0	3976	8.1	276.6	1551
AW-WHPMA10-H91	A+++	60	9.2	204.8	3644	7.7	169.8	4423	8.6	280.5	1617
AW-WHPMA12-H91	A+++	65	12.0	189.4	5152	11.4	160.2	6870	11.1	256.1	2292
AW-WHPMA14-H91	A+++	65	13.7	185.7	6012	12.6	159.6	7667	12.1	260.3	2457
AW-WHPMA16-H91	A+++	68	15.2	181.7	6804	13.7	157.8	8431	13.1	248.5	2781
AW-WHPMA12-H93	A+++	65	12.0	189.3	5153	11.4	160.2	6871	11.1	255.6	2296
AW-WHPMA14-H93	A+++	65	13.7	185.6	6013	12.6	159.6	7667	12.1	259.8	2462
AW-WHPMA16-H93	A+++	68	15.2	181.6	6805	13.7	157.8	8431	13.1	248.1	2786

Product fiche 1

Heat pump space heater		Model	AW-WHPMA04-H91	AW-WHPMA06-H91	AW-WHPMA08-H91	AW-WHPMA10-H91	AW-WHPMA12-H91
Unit sound power (*)	Average climate low temperature application	[dB]	55.0	58.0	59.0	60.0	65.0
	Average climate medium temperature application	[dB]	55.0	58.0	59.0	60.0	65.0
Capacity of the back-up heater integrated in the unit	Psup back-up heater	[kW]	0	0	3	3	3
Space heating	Energy efficiency class 35°C (Low temp. app.)	-	A+++	A+++	A+++	A+++	A+++
Space heating	Energy efficiency class 55°C (Medium temp. app.)	-	A++	A++	A++	A++	A++
Average climate (Design temperature = -10°C)							
Space heating 35°C	Prated (declared heating capacity) @ -10°C	[kW]	5.5	6.8	8.1	9.2	12.0
	Seasonal space heating efficiency (η_s)	[%]	191.0	195.0	205.6	204.8	189.4
	Annual energy consumption	[kWh]	2,351	2,845	3,218	3644	5,152
Space heating 55°C	Prated (declared heating capacity) @ -10°C	[kW]	4.4	5.7	6.6	7.7	11.6
	Seasonal space heating efficiency (η_s)	[%]	129.5	137.9	131.6	135.7	135.1
	Annual energy consumption	[kWh]	2,744	3,345	4,056	4,539	6,927
Part load conditions space heating average climate low temperature application							
(A) condition (-7°C)	Pdh (declared heating capacity)	[kW]	4.88	6.03	7.18	8.10	10.61
	COPd (declared COP)	-	3.19	3.09	3.35	3.23	2.88
	Cdh(degradation coefficient)	-	0.90	0.90	0.90	0.90	0.90
(B) condition (2°C)	Pdh (declared heating capacity)	[kW]	3.05	3.88	4.65	5.18	6.69
	COPd (declared COP)	-	4.78	4.85	5.09	5.01	4.65
	Cdh(degradation coefficient)	-	0.90	0.90	0.90	0.90	0.90
(C) condition (7°C)	Pdh (declared heating capacity)	[kW]	1.93	2.39	2.90	3.32	4.44
	COPd (declared COP)	-	6.13	6.63	6.82	7.08	6.62
	Cdh(degradation coefficient)	-	0.90	0.90	0.90	0.90	0.90
(D) condition (12°C)	Pdh (declared heating capacity)	[kW]	1.48	1.39	1.63	1.65	3.74
	COPd (declared COP)	-	8.05	7.93	8.35	8.58	8.47
	Cdh(degradation coefficient)	-	0.90	0.90	0.90	0.90	0.90

Product fiche 1

Heat pump space heater		Model	AW-WHPMA14-H91	AW-WHPMA16-H91	AW-WHPMA12-H93	AW-WHPMA14-H93	AW-WHPMA16-H93
Unit sound power (*)	Average climate low temperature application	[dB]	65.0	68.0	65.0	65.0	68.0
	Average climate medium temperature application	[dB]	65.0	68.0	65.0	65.0	68.0
Capacity of the back-up heater integrated in the unit	Psup back-up heater	[kW]	3	3	9	9	9
Space heating	Energy efficiency class 35°C (Low temp. app.)	-	A+++	A+++	A+++	A+++	A+++
Space heating	Energy efficiency class 55°C (Medium temp. app.)	-	A++	A++	A++	A++	A++
Average climate (Design temperature = -10°C)							
Space heating 35°C	P _{rated} (declared heating capacity) @ -10°C	[kW]	13.7	15.2	12.0	13.7	15.2
	Seasonal space heating efficiency (η _s)	[%]	185.7	181.7	189.3	185.6	181.6
	Annual energy consumption	[kWh]	6,012	6,804	5,153	6,013	6,805
Space heating 55°C	P _{rated} (declared heating capacity) @ -10°C	[kW]	12.1	13.0	11.6	12.1	13.0
	Seasonal space heating efficiency (η _s)	[%]	135.6	133.3	135.1	135.6	133.2
	Annual energy consumption	[kWh]	7,202	7,895	6,928	7,203	7,896
Part load conditions space heating average climate low temperature application							
(A) condition (-7°C)	P _{dh} (declared heating capacity)	[kW]	12.14	13.45	10.61	12.14	13.45
	COP _d (declared COP)	-	2.79	2.72	2.88	2.79	2.72
	C _{dh} (degradation coefficient)	-	0.90	0.90	0.90	0.90	0.90
(B) condition (2°C)	P _{dh} (declared heating capacity)	[kW]	7.94	8.56	6.69	7.94	8.56
	COP _d (declared COP)	-	4.52	4.41	4.65	4.52	4.41
	C _{dh} (degradation coefficient)	-	0.90	0.90	0.90	0.90	0.90
(C) condition (7°C)	P _{dh} (declared heating capacity)	[kW]	5.20	5.70	4.44	5.20	5.70
	COP _d (declared COP)	-	6.68	6.56	6.62	6.68	6.56
	C _{dh} (degradation coefficient)	-	0.90	0.90	0.90	0.90	0.90
(D) condition (12°C)	P _{dh} (declared heating capacity)	[kW]	3.75	3.78	3.74	3.75	3.78
	COP _d (declared COP)	-	8.52	8.51	8.47	8.52	8.51
	C _{dh} (degradation coefficient)	-	0.90	0.90	0.90	0.90	0.90

Product fiche 2

Heat pump space heater		Model	AW-WHPMA04-H91	AW-WHPMA06-H91	AW-WHPMA08-H91	AW-WHPMA10-H91	AW-WHPMA12-H91
(E) Tol (temperature operating limit)	Tol (temperature operating limit)	[°C]	-10.00	-10.00	-10.00	-10.00	-10.00
	Pdh (declared heating capacity)	[kW]	4.41	5.36	6.44	7.40	10.74
	COPd (declared COP)	-	2.86	2.76	3.04	2.96	2.77
	WTOL (Heating water Operation Limit)	[°C]	60.00	60.00	60.00	60.00	60.00
(F) Tbivalent temperature	Tblv	[°C]	-7.00	-7.00	-7.00	-7.00	-7.00
	Pdh (declared heating capacity)	[kW]	4.88	6.03	7.18	8.10	10.61
	COPd (declared COP)	-	3.19	3.09	3.35	3.23	2.88
Supplementary capacity at P_design	Psup (@Tdesignh: -10°C)	[kW]	1.11	1.45	1.68	1.76	1.26
Part load conditions space heating average climate medium temperature application							
(A) condition (-7°C)	Pdh (declared heating capacity)	[kW]	3.89	5.04	5.84	6.78	10.24
	COPd (declared COP)	-	2.17	2.17	2.16	2.24	2.01
	Cdh(degradation coefficient)	-	0.90	0.90	0.90	0.90	0.90
(B) condition (2°C)	Pdh (declared heating capacity)	[kW]	2.38	3.12	3.76	4.28	6.52
	COPd (declared COP)	-	3.30	3.51	3.30	3.42	3.44
	Cdh(degradation coefficient)	-	0.90	0.90	0.90	0.90	0.90
(C) condition (7°C)	Pdh (declared heating capacity)	[kW]	2.94	2.08	2.43	2.77	4.36
	COPd (declared COP)	-	4.41	4.54	4.34	4.52	4.59
	Cdh(degradation coefficient)	-	0.90	0.90	0.90	0.90	0.90
(D) condition (12°C)	Pdh (declared heating capacity)	[kW]	1.32	1.28	1.39	1.58	3.29
	COPd (declared COP)	-	5.66	5.59	5.33	5.68	6.05
	Cdh(degradation coefficient)	-	0.90	0.90	0.90	0.90	0.90
(E) Tol (temperature operating limit)	Tol (temperature operating limit)	[°C]	-10.00	-10.00	-10.00	-10.00	-10.00
	Pdh (declared heating capacity)	[kW]	3.42	4.52	4.91	5.38	9.10
	COPd (declared COP)	-	1.91	1.91	1.84	1.83	1.79
	WTOL (Heating water Operation Limit)	[°C]	60.00	60.00	60.00	60.00	60.00
(F) Tbivalent temperature	Tblv	[°C]	-7.00	-7.00	-7.00	-7.00	-7.00
	Pdh (declared heating capacity)	[kW]	3.89	5.04	5.84	6.78	10.24
	COPd (declared COP)	-	2.17	2.17	2.16	2.24	2.01

Product fiche 2

Heat pump space heater		Model	AW-WHPMA14-H91	AW-WHPMA16-H91	AW-WHPMA12-H93	AW-WHPMA14-H93	AW-WHPMA16-H93
(E) Tol (temperature operating limit)	Tol (temperature operating limit)	[°C]	-10.00	-10.00	-10.00	-10.00	-10.00
	P _{dh} (declared heating capacity)	[kW]	11.47	12.52	10.74	11.47	12.52
	COP _d (declared COP)	-	2.59	2.48	2.77	2.59	2.48
	WTOL (Heating water Operation Limit)	[°C]	60.00	60.00	60.00	60.00	60.00
(F) Tbivalent temperature	T _{biv}	[°C]	-7.00	-7.00	-7.00	-7.00	-7.00
	P _{dh} (declared heating capacity)	[kW]	12.14	13.45	10.61	12.14	13.45
	COP _d (declared COP)	-	2.79	2.72	2.88	2.79	2.72
Supplementary capacity at P _{design}	P _{sup} (@T _{designh} : -10°C)	[kW]	2.23	2.68	1.26	2.23	2.68
Part load conditions space heating average climate medium temperature application							
(A) condition (-7°C)	P _{dh} (declared heating capacity)	[kW]	10.68	11.52	10.24	10.68	11.52
	COP _d (declared COP)	-	2.01	1.99	2.01	2.01	1.99
	C _{dh} (degradation coefficient)	-	0.90	0.90	0.90	0.90	0.90
(B) condition (2°C)	P _{dh} (declared heating capacity)	[kW]	6.86	7.18	6.52	6.86	7.18
	COP _d (declared COP)	-	3.43	3.34	3.44	3.43	3.34
	C _{dh} (degradation coefficient)	-	0.90	0.90	0.90	0.90	0.90
(C) condition (7°C)	P _{dh} (declared heating capacity)	[kW]	4.63	4.67	4.36	4.63	4.67
	COP _d (declared COP)	-	4.66	4.61	4.59	4.66	4.61
	C _{dh} (degradation coefficient)	-	0.90	0.90	0.90	0.90	0.90
(D) condition (12°C)	P _{dh} (declared heating capacity)	[kW]	3.31	3.32	3.29	3.31	3.32
	COP _d (declared COP)	-	6.13	6.07	6.05	6.13	6.07
	C _{dh} (degradation coefficient)	-	0.90	0.90	0.90	0.90	0.90
(E) Tol (temperature operating limit)	Tol (temperature operating limit)	[°C]	-10.00	-10.00	-10.00	-10.00	-10.00
	P _{dh} (declared heating capacity)	[kW]	9.19	10.33	9.10	9.19	10.33
	COP _d (declared COP)	-	1.76	1.80	1.79	1.76	1.80
	WTOL (Heating water Operation Limit)	[°C]	60.00	60.00	60.00	60.00	60.00
(F) Tbivalent temperature	T _{biv}	[°C]	-7.00	-7.00	-7.00	-7.00	-7.00
	P _{dh} (declared heating capacity)	[kW]	10.68	11.52	10.27	10.68	11.52
	COP _d (declared COP)	-	2.01	1.99	2.01	2.01	1.99
Supplementary capacity at P _{design}	P _{sup} (@T _{designh} : -10°C)	[kW]	2.91	2.67	2.50	2.91	2.67

Product fiche 3

Heat pump space heater		Model	AW-WHPMA04-H91	AW-WHPMA06-H91	AW-WHPMA08-H91	AW-WHPMA10-H91	AW-WHPMA12-H91
Supplementary capacity at P_design	P _{sup} (@T _{designh} : -10°C)	[kW]	0.98	1.18	1.69	2.28	2.50
Colder climate (Design temperature = -22°C)							
Space heating 35°C	Prated (declared heating capacity) @ -22°C	[kW]	4.6	5.6	7.0	7.7	11.4
	Seasonal space heating efficiency (η _s)	[%]	159.5	165.3	170.0	169.8	160.2
	Annual energy consumption	[kWh]	2,769	3,300	3,976	4,423	6,870
Space heating 55°C	Prated (declared heating capacity) @ -22°C	[kW]	3.4	4.3	5.8	6.7	10.3
	Seasonal space heating efficiency (η _s)	[%]	102.1	111.1	112.0	116.4	117.8
	Annual energy consumption	[kWh]	3,159	3,681	4,950	5,540	8,419
Part load conditions space heating colder climate low temperature application							
(A) condition (-7°C)	P _d h (declared heating capacity)	[kW]	2.75	3.42	4.46	4.83	7.05
	COP _d (declared COP)	-	3.49	3.59	3.66	3.60	3.48
	C _d h (degradation coefficient)	-	0.90	0.90	0.90	0.90	0.90
(B) condition (2°C)	P _d h (declared heating capacity)	[kW]	1.77	2.06	2.69	2.94	4.67
	COP _d (declared COP)	-	4.95	5.21	5.20	5.26	4.96
	C _d h (degradation coefficient)	-	0.90	0.90	0.90	0.90	0.90
(C) condition (7°C)	P _d h (declared heating capacity)	[kW]	1.17	1.46	1.65	1.92	3.14
	COP _d (declared COP)	-	5.53	6.24	6.53	7.08	6.10
	C _d h (degradation coefficient)	-	0.90	0.90	0.90	0.90	0.90
(D) condition (12°C)	P _d h (declared heating capacity)	[kW]	1.43	1.44	1.65	1.65	3.57
	COP _d (declared COP)	-	7.67	7.66	7.96	7.96	7.87
	C _d h (degradation coefficient)	-	0.90	0.90	0.90	0.90	0.90
(E) Tol (temperature operating limit)	Tol (temperature operating limit)	[°C]	-22.00	-22.00	-22.00	-22.00	-22.00
	P _d h (declared heating capacity)	[kW]	2.80	3.48	4.06	4.62	7.01
	COP _d (declared COP)	-	1.97	1.96	1.95	1.97	1.98
	WTOL (Heating water Operation Limit)	[°C]	51.00	51.00	51.00	51.00	51.00
(F) Tivalent temperature	T _{blv}	[°C]	-15.00	-15.00	-15.00	-15.00	-15.00
	P _d h (declared heating capacity)	[kW]	3.72	4.59	5.69	6.32	9.28
	COP _d (declared COP)	-	2.57	2.53	2.83	2.64	2.59
Supplementary capacity at P_design	P _{sup} (@T _{designh} : -22°C)	[kW]	1.76	2.15	2.91	3.08	4.40

Product fiche 3

Heat pump space heater		Model	AW-WHPMA14-H91	AW-WHPMA16-H91	AW-WHPMA12-H93	AW-WHPMA14-H93	AW-WHPMA16-H93
Colder climate (Design temperature = -22°C)							
Space heating 35°C	P _{rated} (declared heating capacity) @ -22°C	[kW]	12.6	13.7	11.4	12.6	13.7
	Seasonal space heating efficiency (η _s)	[%]	159.6	157.8	160.2	159.6	157.8
	Annual energy consumption	[kWh]	7,667	8,431	6,871	7,667	8,431
Space heating 55°C	P _{rated} (declared heating capacity) @ -22°C	[kW]	11.0	11.8	10.3	11.0	11.8
	Seasonal space heating efficiency (η _s)	[%]	118.9	121.8	117.7	118.9	121.8
	Annual energy consumption	[kWh]	8,866	9,309	8,420	8,867	9,310
Part load conditions space heating colder climate low temperature application							
(A) condition (-7°C)	P _{dh} (declared heating capacity)	[kW]	7.96	8.31	7.05	7.96	8.31
	COP _d (declared COP)	-	3.44	3.37	3.48	3.44	3.37
	C _{dh} (degradation coefficient)	-	0.90	0.90	0.90	0.90	0.90
(B) condition (2°C)	P _{dh} (declared heating capacity)	[kW]	5.05	5.26	4.67	5.05	5.26
	COP _d (declared COP)	-	4.92	4.86	4.96	4.92	4.86
	C _{dh} (degradation coefficient)	-	0.90	0.90	0.90	0.90	0.90
(C) condition (7°C)	P _{dh} (declared heating capacity)	[kW]	3.15	3.62	3.14	3.15	3.62
	COP _d (declared COP)	-	6.11	6.49	6.10	6.11	6.49
	C _{dh} (degradation coefficient)	-	0.90	0.90	0.90	0.90	0.90
(D) condition (12°C)	P _{dh} (declared heating capacity)	[kW]	3.57	3.34	3.57	3.57	3.34
	COP _d (declared COP)	-	7.82	7.40	7.87	7.82	7.40
	C _{dh} (degradation coefficient)	-	0.90	0.90	0.90	0.90	0.90
(E) Tol (temperature operating limit)	T _{ol} (temperature operating limit)	[°C]	-22.00	-22.00	-22.00	-22.00	-22.00
	P _{dh} (declared heating capacity)	[kW]	7.57	8.88	7.01	7.57	8.88
	COP _d (declared COP)	-	1.92	1.97	1.98	1.92	1.97
	WTOL (Heating water Operation Limit)	[°C]	51.00	51.00	51.00	51.00	51.00
(F) Tbivalent temperature	T _{blv}	[°C]	-15.00	-15.00	-15.00	-15.00	-15.00
	P _{dh} (declared heating capacity)	[kW]	10.31	11.22	9.28	10.31	11.22
	COP _d (declared COP)	-	2.53	2.43	2.59	2.53	2.43
Supplementary capacity at P _{design}	P _{sup} (@T _{designh} : -22°C)	[kW]	5.03	4.82	4.40	5.03	4.82

Product fiche 4

Heat pump space heater		Model	AW-WHPMA04-H91	AW-WHPMA06-H91	AW-WHPMA08-H91	AW-WHPMA10-H91	AW-WHPMA12-H91
Part load conditions space heating colder climate medium temperature application							
(A) condition (-7°C)	Pdh (declared heating capacity)	[kW]	2.13	2.69	3.86	4.27	6.63
	COPd (declared COP)	-	2.32	2.46	2.48	2.54	2.63
	Cdh(degradation coefficient)	-	0.90	0.90	0.90	0.90	0.90
(B) condition (2°C)	Pdh (declared heating capacity)	[kW]	1.28	1.60	2.21	2.57	4.06
	COPd (declared COP)	-	2.99	3.36	3.35	3.51	3.60
	Cdh(degradation coefficient)	-	0.90	0.90	0.90	0.90	0.90
(C) condition (7°C)	Pdh (declared heating capacity)	[kW]	1.01	1.02	1.44	1.65	2.78
	COPd (declared COP)	-	3.86	3.94	4.11	4.37	4.54
	Cdh(degradation coefficient)	-	0.90	0.90	0.90	0.90	0.90
(D) condition (12°C)	Pdh (declared heating capacity)	[kW]	1.36	1.37	1.47	1.48	3.33
	COPd (declared COP)	-	6.28	6.35	5.92	5.96	6.25
	Cdh(degradation coefficient)	-	0.90	0.90	0.90	0.90	0.90
(E) Tol (temperature operating limit)	Tol (temperature operating limit)	[°C]	-22.00	-22.00	-22.00	-22.00	-22.00
	Pdh (declared heating capacity)	[kW]	1.64	2.09	2.80	2.80	4.19
	COPd (declared COP)	-	1.02	1.13	1.22	1.22	1.13
	WTOL (Heating water Operation Limit)	[°C]	51.00	51.00	51.00	51.00	51.00
(F) Tivalent temperature	Tblv	[°C]	-15.00	-15.00	-15.00	-15.00	-15.00
	Pdh (declared heating capacity)	[kW]	2.74	3.47	4.71	5.47	8.41
	COPd (declared COP)	-	1.74	1.86	1.90	2.00	1.84
Supplementary capacity at P_design	Psup (@Tdesignh: -22°C)	[kW]	1.72	2.17	2.97	3.91	6.12
Warmer climate (Design temperature = 2°C)							
Space heating 35°C	Prated (declared heating capacity) @ 2°C	[kW]	5.5	6.1	8.1	8.6	11.1
	Seasonal space heating efficiency (ηs)	[%]	255.4	259.8	276.6	280.5	256.1
	Annual energy consumption	[kWh]	1,146	1,244	1,551	1,617	2,292
Space heating 55°C	Prated (declared heating capacity) @ 2°C	[kW]	5.0	5.1	8.4	8.6	12.5
	Seasonal space heating efficiency (ηs)	[%]	162.4	164.7	176.9	180.3	174.0
	Annual energy consumption	[kWh]	1,621	1,640	2,485	2,516	3,776

Product fiche 4

Heat pump space heater		Model	AW-WHPMA14-H91	AW-WHPMA16-H91	AW-WHPMA12-H93	AW-WHPMA14-H93	AW-WHPMA16-H93
Part load conditions space heating colder climate medium temperature application							
(A) condition (-7°C)	P _{dh} (declared heating capacity)	[kW]	6.89	7.64	6.63	6.89	7.64
	COP _d (declared COP)	-	2.66	2.65	2.63	2.66	2.65
	C _{dh} (degradation coefficient)	-	0.90	0.90	0.90	0.90	0.90
(B) condition (2°C)	P _{dh} (declared heating capacity)	[kW]	4.32	4.42	4.06	4.32	4.42
	COP _d (declared COP)	-	3.66	3.79	3.60	3.66	3.79
	C _{dh} (degradation coefficient)	-	0.90	0.90	0.90	0.90	0.90
(C) condition (7°C)	P _{dh} (declared heating capacity)	[kW]	3.06	2.97	2.78	3.06	2.97
	COP _d (declared COP)	-	4.72	4.81	4.54	4.72	4.81
	C _{dh} (degradation coefficient)	-	0.90	0.90	0.90	0.90	0.90
(D) condition (12°C)	P _{dh} (declared heating capacity)	[kW]	3.33	3.43	3.33	3.33	3.43
	COP _d (declared COP)	-	6.25	6.29	6.25	6.25	6.29
	C _{dh} (degradation coefficient)	-	0.90	0.90	0.90	0.90	0.90
(E) Tol (temperature operating limit)	T _{ol} (temperature operating limit)	[°C]	-22.00	-22.00	-22.00	-22.00	-22.00
	P _{dh} (declared heating capacity)	[kW]	4.20	5.21	4.19	4.20	5.21
	COP _d (declared COP)	-	1.13	1.23	1.13	1.13	1.23
	WTOL (Heating water Operation Limit)	[°C]	51.00	51.00	51.00	51.00	51.00
(F) Tivalent temperature	T _{blv}	[°C]	-15.00	-15.00	-15.00	-15.00	-15.00
	P _{dh} (declared heating capacity)	[kW]	8.94	9.61	8.41	8.94	9.61
	COP _d (declared COP)	-	1.79	1.86	1.84	1.79	1.86
Supplementary capacity at P _{design}	P _{sup} (@T _{designh} : -22°C)	[kW]	6.76	6.59	6.12	6.76	6.59
Warmer climate (Design temperature = 2°C)							
Space heating 35°C	P _{rated} (declared heating capacity) @ 2°C	[kW]	12.1	13.1	11.1	12.1	13.1
	Seasonal space heating efficiency (η _s)	[%]	260.3	248.5	255.6	259.8	248.1
	Annual energy consumption	[kWh]	2,457	2,781	2,296	2,462	2,786
Space heating 55°C	P _{rated} (declared heating capacity) @ 2°C	[kW]	13.7	13.8	12.5	13.7	13.8
	Seasonal space heating efficiency (η _s)	[%]	174.9	176.0	173.8	174.9	175.8
	Annual energy consumption	[kWh]	4,258	4,231	3,780	4,262	4,236

Product fiche 5

Heat pump space heater		Model	AW-WHPMA04-H91	AW-WHPMA06-H91	AW-WHPMA08-H91	AW-WHPMA10-H91	AW-WHPMA12-H91
Part load conditions space heating warmer climate low temperature application							
(B) condition (2°C)	Pdh (declared heating capacity)	[kW]	5.34	5.93	7.56	8.44	11.26
	COPd (declared COP)	-	3.94	3.91	3.98	3.84	3.59
	Cdh(degradation coefficient)	-	0.90	0.90	0.90	0.90	0.90
(C) condition (7°C)	Pdh (declared heating capacity)	[kW]	3.56	3.93	5.22	5.52	7.14
	COPd (declared COP)	-	5.92	5.89	6.26	6.18	5.87
	Cdh(degradation coefficient)	-	0.90	0.90	0.90	0.90	0.90
(D) condition (12°C)	Pdh (declared heating capacity)	[kW]	1.63	1.79	2.62	2.62	3.55
	COPd (declared COP)	-	7.91	8.20	9.23	9.04	7.94
	Cdh(degradation coefficient)	-	0.90	0.90	0.90	0.90	0.90
(E) Tol (temperature operating limit)	Tol (temperature operating limit)	[°C]	2.00	2.00	2.00	2.00	2.00
	Pdh (declared heating capacity)	[kW]	5.34	5.93	7.56	8.44	11.26
	COPd (declared COP)	-	3.94	3.91	3.98	3.84	3.59
	WTOL (Heating water Operation Limit)	[°C]	62.00	62.00	62.00	62.00	62.00
(F) Tivalent temperature	Tblv	[°C]	7.00	7.00	7.00	7.00	7.00
	Pdh (declared heating capacity)	[kW]	3.56	3.93	5.22	5.52	7.14
	COPd (declared COP)	-	5.92	5.89	6.26	6.18	5.87
Supplementary capacity at P_design	P_{sup} (@Tdesignh: 2°C)	[kW]	0.18	0.18	0.55	0.14	0.00
Part load conditions space heating warmer climate medium temperature application							
(B) condition (2°C)	Pdh (declared heating capacity)	[kW]	4.83	5.02	7.55	8.06	12.07
	COPd (declared COP)	-	2.51	2.48	2.59	2.59	2.31
	Cdh(degradation coefficient)	-	0.90	0.90	0.90	0.90	0.90
(C) condition (7°C)	Pdh (declared heating capacity)	[kW]	3.22	3.31	4.86	5.54	8.04
	COPd (declared COP)	-	3.68	3.67	3.92	4.10	3.86
	Cdh(degradation coefficient)	-	0.90	0.90	0.90	0.90	0.90
(D) condition (12°C)	Pdh (declared heating capacity)	[kW]	1.47	1.59	2.32	2.53	3.75
	COPd (declared COP)	-	5.15	5.29	5.55	5.82	5.70
	Cdh(degradation coefficient)	-	0.90	0.90	0.90	0.90	0.90

Product fiche 5

Heat pump space heater		Model	AW-WHPMA14-H91	AW-WHPMA16-H91	AW-WHPMA12-H93	AW-WHPMA14-H93	AW-WHPMA16-H93
Part load conditions space heating warmer climate low temperature application							
(B) condition (2°C)	P _{dh} (declared heating capacity)	[kW]	12.04	13.10	11.26	12.04	13.10
	COP _d (declared COP)	-	3.44	3.35	3.59	3.44	3.35
	C _{dh} (degradation coefficient)	-	0.90	0.90	0.90	0.90	0.90
(C) condition (7°C)	P _{dh} (declared heating capacity)	[kW]	7.78	8.41	7.14	7.78	8.41
	COP _d (declared COP)	-	5.84	5.36	5.87	5.84	5.36
	C _{dh} (degradation coefficient)	-	0.90	0.90	0.90	0.90	0.90
(D) condition (12°C)	P _{dh} (declared heating capacity)	[kW]	3.75	3.87	3.55	3.75	3.87
	COP _d (declared COP)	-	8.25	8.11	7.94	8.25	8.11
	C _{dh} (degradation coefficient)	-	0.90	0.90	0.90	0.90	0.90
(E) Tol (temperature operating limit)	T _{ol} (temperature operating limit)	[°C]	2.00	2.00	2.00	2.00	2.00
	P _{dh} (declared heating capacity)	[kW]	12.04	13.10	11.26	12.04	13.10
	COP _d (declared COP)	-	3.44	3.35	3.59	3.44	3.35
	WTOL (Heating water Operation Limit)	[°C]	62.00	62.00	62.00	62.00	62.00
(F) T _{bivalent} temperature	T _{blv}	[°C]	7.00	7.00	7.00	7.00	7.00
	P _{dh} (declared heating capacity)	[kW]	7.78	8.41	7.14	7.78	8.41
	COP _d (declared COP)	-	5.84	5.36	5.87	5.84	5.36
Supplementary capacity at P _{design}	P _{sup} (@T _{designh} : 2°C)	[kW]	0.00	0.00	0.00	0.00	0.00
Part load conditions space heating warmer climate medium temperature application							
(B) condition (2°C)	P _{dh} (declared heating capacity)	[kW]	13.04	13.38	12.07	13.04	13.38
	COP _d (declared COP)	-	2.20	2.29	2.31	2.20	2.29
	C _{dh} (degradation coefficient)	-	0.90	0.90	0.90	0.90	0.90
(C) condition (7°C)	P _{dh} (declared heating capacity)	[kW]	8.83	8.86	8.04	8.83	8.86
	COP _d (declared COP)	-	3.91	3.84	3.86	3.91	3.84
	C _{dh} (degradation coefficient)	-	0.90	0.90	0.90	0.90	0.90
(D) condition (12°C)	P _{dh} (declared heating capacity)	[kW]	4.08	4.06	3.75	4.08	4.06
	COP _d (declared COP)	-	5.90	5.86	5.70	5.90	5.86
	C _{dh} (degradation coefficient)	-	0.90	0.90	0.90	0.90	0.90

Product fiche 6

Heat pump space heater		Model	AW-WHPMA04-H91	AW-WHPMA06-H91	AW-WHPMA08-H91	AW-WHPMA10-H91	AW-WHPMA12-H91
(E) Tol (temperature operating limit)	Tol (temperature operating limit)	[°C]	2.00	2.00	2.00	2.00	2.00
	Pdh (declared heating capacity)	[kW]	4.83	5.02	7.55	8.15	12.07
	COPd (declared COP)	-	2.51	2.48	2.59	2.61	2.31
	WTOL (Heating water Operation Limit)	[°C]	62.00	62.00	62.00	62.00	62.00
(F) Tbivalent temperature	Tblv	[°C]	7.00	7.00	7.00	7.00	7.00
	Pdh (declared heating capacity)	[kW]	3.22	3.31	5.38	5.54	8.04
	COPd (declared COP)	-	3.68	3.67	4.01	4.10	3.86
Supplementary capacity at P_design	Psup (@Tdesignh: 2°C)	[kW]	0.18	0.12	0.82	0.48	0.43
0							
Product description	Air-to-water heat pump	Y/N	Yes	Yes	Yes	Yes	Yes
	Water-to-water heat pump	Y/N	No	No	No	No	No
	Brine-to-water heat pump	Y/N	No	No	No	No	No
	Low-temperature heat pump	Y/N	No	No	No	No	No
	Equipped with a supplementary heater	Y/N	Yes	Yes	Yes	Yes	Yes
	Heat pump combination heater	Y/N	No	No	No	No	No
Air to water unit	Rated airflow	[m ³ /h]	2770	2770	4030	4030	4060
Brine/water to water unit	Rated water/brine flow (outdoor H/E)		/	/	/	/	/
Other	Capacity control	-	Inverter	Inverter	Inverter	Inverter	Inverter
	Poff (Power consumption Off mode)	[kW]	0.014	0.014	0.014	0.014	0.014
	Pto (Power consumption Thermostat off mode)	[kW]	0.024	0.024	0.024	0.024	0.024
	Psb (Power consumption Standby mode)	[kW]	0.014	0.014	0.014	0.014	0.014
	PCK (Power crankcase heater model)	[kW]	0.000	0.000	0.000	0.000	0.000
	Qelec (Daily electricity consumption)	[kWh]	/	/	/	/	/
	Qfuel (Daily fuel consumption)	[kWh]	/	/	/	/	/

Details and precautions on installation, maintenance and assembly can be found in the installation and or operation manuals.

Product fiche data according to energy label directive 2010/30/EC regulation (EU) 811/2013.

Product fiche 6

Heat pump space heater		Model	AW-WHPMA14-H91	AW-WHPMA16-H91	AW-WHPMA12-H93	AW-WHPMA14-H93	AW-WHPMA16-H93
(E) Tol (temperature operating limit)	Tol (temperature operating limit)	[°C]	2.00	2.00	2.00	2.00	2.00
	Pdh (declared heating capacity)	[kW]	13.04	13.38	12.07	13.04	13.38
	COPd (declared COP)	-	2.20	2.29	2.31	2.20	2.29
	WTOL (Heating water Operation Limit)	[°C]	62.00	62.00	62.00	62.00	62.00
(F) Tbivalent temperature	Tblv	[°C]	7.00	7.00	7.00	7.00	7.00
	Pdh (declared heating capacity)	[kW]	9.11	9.11	8.04	9.11	9.11
	COPd (declared COP)	-	3.89	3.89	3.86	3.89	3.89
Supplementary capacity at P_design	P _{sup} (@Tdesignh: 2°C)	[kW]	1.13	0.79	0.43	1.13	0.79
0							
Product description	Air-to-water heat pump	Y/N	Yes	Yes	Yes	Yes	Yes
	Water-to-water heat pump	Y/N	No	No	No	No	No
	Brine-to-water heat pump	Y/N	No	No	No	No	No
	Low-temperature heat pump	Y/N	No	No	No	No	No
	Equipped with a supplementary heater	Y/N	Yes	Yes	Yes	Yes	Yes
	Heat pump combination heater	Y/N	No	No	No	No	No
Air to water unit	Rated airflow	[m³/h]	4060	4650	4060	4060	4650
Brine/water to water unit	Rated water/brine flow (outdoor H/E)		/	/	/	/	/
Other	Capacity control	-	Inverter	Inverter	Inverter	Inverter	Inverter
	P _{off} (Power consumption Off mode)	[kW]	0.014	0.014	0.02	0.02	0.02
	P _{to} (Power consumption Thermostat off mode)	[kW]	0.024	0.024	0.030	0.030	0.030
	P _{sb} (Power consumption Standby mode)	[kW]	0.014	0.014	0.02	0.02	0.02
	P _{CK} (Power crankcase heater model)	[kW]	0.000	0.000	0.000	0.000	0.000
	Q _{elec} (Daily electricity consumption)	[kWh]	/	/	/	/	/
	Q _{fuel} (Daily fuel consumption)	[kWh]	/	/	/	/	/

Details and precautions on installation, maintenance and assembly can be found in the installation and or operation manuals.

Product fiche data according to energy label directive 2010/30/EC regulation (EU) 811/2013.

Product fiche 7

Heat pump space cooling		Model	AW-WHPMA04-H91	AW-WHPMA06-H91	AW-WHPMA08-H91	AW-WHPMA10-H91	AW-WHPMA12-H91
Unit sound power (*)	Average climate low temperature application	dB	56	60	60	60	65
	Average climate medium temperature application	dB	56	58	60	60	64
Space cooling 7°C	Prated (declared cooling capacity) @ 35°C	[kW]	4.70	7.00	7.45	8.20	11.50
	Seasonal space cooling efficiency (ηs)	[%]	196.2	209.5	229.9	234.9	194.1
	Annual energy consumption	[kWh]	566	791	768	827	1,400
Space cooling 18°C	Prated (declared cooling capacity) @ 35°C	[kW]	4.50	6.50	8.30	9.90	12.00
	Seasonal space cooling efficiency (ηs)	[%]	307.4	325.9	354.7	346.3	282.0
	Annual energy consumption	[kWh]	348	474	557	680	1,011
Part load conditions space cooling: low temperature application@7°C							
(A) condition (35°C)	Pdc (declared cooling capacity)	[kW]	4.70	7.00	7.45	8.20	11.50
	EERd (declared EER)	-	3.45	3.00	3.35	3.25	2.75
	Cdc(degradation coefficient)	-	0.90	0.90	0.90	0.90	0.90
(B) condition (30°C)	Pdc (declared cooling capacity)	[kW]	3.66	5.13	5.72	6.68	8.76
	EERd (declared EER)	-	4.76	4.00	4.71	4.47	3.93
	Cdc(degradation coefficient)	-	0.90	0.90	0.90	0.90	0.90
(C) condition (25°C)	Pdc (declared cooling capacity)	[kW]	2.21	3.48	3.62	4.26	5.81
	EERd (declared EER)	-	5.72	6.45	6.65	7.02	5.73
	Cdc(degradation coefficient)	-	0.90	0.90	0.90	0.90	0.90
(D) condition (20°C)	Pdc (declared cooling capacity)	[kW]	0.94	1.53	1.64	1.94	2.63
	EERd (declared EER)	-	5.72	7.73	8.55	9.54	6.75
	Cdc(degradation coefficient)	-	0.90	0.90	0.90	0.90	0.90

(*)Sound power measured according to the EN12102 under conditions of the EN14825.

Product fiche 7

Heat pump space cooling		Model	AW-WHPMA14-H91	AW-WHPMA16-H91	AW-WHPMA12-H93	AW-WHPMA14-H93	AW-WHPMA16-H93
Unit sound power (*)	Average climate low temperature application	dB	65	69	65	65	69
	Average climate medium temperature application	dB	64	69	64	64	69
Space cooling 7°C	Prated (declared cooling capacity) @ 35°C	[kW]	12.40	14.00	11.50	12.40	14.00
	Seasonal space cooling efficiency (ηs)	[%]	191.9	184.6	193.0	190.8	183.7
	Annual energy consumption	[kWh]	1,527	1,791	1,408	1,535	1,799
Space cooling 18°C	Prated (declared cooling capacity) @ 35°C	[kW]	13.50	14.20	12.00	13.50	14.20
	Seasonal space cooling efficiency (ηs)	[%]	274.4	266.8	279.7	272.5	265.0
	Annual energy consumption	[kWh]	1,168	1,263	1,019	1,176	1,271
Part load conditions space cooling: low temperature application@7°C							
(A) condition (35°C)	Pdc (declared cooling capacity)	[kW]	12.40	14.00	11.50	12.40	14.00
	EERd (declared EER)	-	2.50	2.50	2.75	2.50	2.50
	Cdc(degradation coefficient)	-	0.90	0.90	0.90	0.90	0.90
(B) condition (30°C)	Pdc (declared cooling capacity)	[kW]	9.41	10.68	8.76	9.41	10.68
	EERd (declared EER)	-	3.85	3.63	3.93	3.85	3.63
	Cdc(degradation coefficient)	-	0.90	0.90	0.90	0.90	0.90
(C) condition (25°C)	Pdc (declared cooling capacity)	[kW]	6.16	6.76	5.81	6.16	6.76
	EERd (declared EER)	-	5.80	5.27	5.73	5.80	5.27
	Cdc(degradation coefficient)	-	0.90	0.90	0.90	0.90	0.90
(D) condition (20°C)	Pdc (declared cooling capacity)	[kW]	2.63	3.41	2.63	2.63	3.41
	EERd (declared EER)	-	6.74	7.29	6.75	6.74	7.29
	Cdc(degradation coefficient)	-	0.90	0.90	0.90	0.90	0.90

(*)Sound power measured according to the EN12102 under conditions of the EN14825.

Product fiche 8

Heat pump space cooling		Model	AW-WHPMA04-H91	AW-WHPMA06-H91	AW-WHPMA08-H91	AW-WHPMA10-H91	AW-WHPMA12-H91
Part load conditions space cooling: medium temperature application@18°C							
(A) condition (35°C)	Pdc (declared cooling capacity)	[kW]	4.50	6.50	8.30	9.90	12.00
	EERd (declared EER)	-	5.50	4.80	5.05	4.55	3.95
	Cdc(degradation coefficient)	-	0.90	0.90	0.90	0.90	0.90
(B) condition (30°C)	Pdc (declared cooling capacity)	[kW]	3.44	4.84	6.47	7.71	9.21
	EERd (declared EER)	-	7.23	7.16	7.02	6.45	5.50
	Cdc(degradation coefficient)	-	0.90	0.90	0.90	0.90	0.90
(C) condition (25°C)	Pdc (declared cooling capacity)	[kW]	2.19	3.26	4.31	5.03	5.74
	EERd (declared EER)	-	8.94	9.64	10.67	10.36	8.66
	Cdc(degradation coefficient)	-	0.90	0.90	0.90	0.90	0.90
(D) condition (20°C)	Pdc (declared cooling capacity)	[kW]	1.13	1.41	1.80	2.32	3.33
	EERd (declared EER)	-	10.48	11.48	13.61	14.98	10.07
	Cdc(degradation coefficient)	-	0.90	0.90	0.90	0.90	0.90
Air to water unit	Rated airflow (outdoor)	[m ³ /h]	2770	2770	4030	4030	4060
Brine/water to water unit	Rated water/brine flow (outdoor H/E)	-	/	/	/	/	/
Other	Capacity control	-	Inverter	Inverter	Inverter	Inverter	Inverter
	Poff (Power consumption Off mode)	[kW]	0.014	0.014	0.014	0.014	0.014
	Pto (Power consumption Thermostat off mode)	[kW]	0.010	0.010	0.010	0.010	0.010
	Psb (Power consumption Standby mode)	[kW]	0.014	0.014	0.014	0.014	0.014
	Pck (Power crankcase heater mode)	[kW]	0.000	0.000	0.000	0.000	0.000
	Qelec (Daily electricity consumption)	[kWh]	/	/	/	/	/
	Qfuel (Daily fuel consumption)	[kWh]	/	/	/	/	/

Product fiche 8

Heat pump space cooling		Model	AW-WHPMA14-H91	AW-WHPMA16-H91	AW-WHPMA12-H93	AW-WHPMA14-H93	AW-WHPMA16-H93
Part load conditions space cooling: medium temperature application@18°C							
(A) condition (35°C)	Pdc (declared cooling capacity)	[kW]	13.50	14.20	12.00	13.50	14.20
	EERd (declared EER)	-	3.61	3.61	3.95	3.61	3.61
	Cdc(degradation coefficient)	-	0.90	0.90	0.90	0.90	0.90
(B) condition (30°C)	Pdc (declared cooling capacity)	[kW]	10.20	11.42	9.21	10.20	11.42
	EERd (declared EER)	-	5.26	5.14	5.50	5.26	5.14
	Cdc(degradation coefficient)	-	0.90	0.90	0.90	0.90	0.90
(C) condition (25°C)	Pdc (declared cooling capacity)	[kW]	6.57	7.27	5.74	6.57	7.27
	EERd (declared EER)	-	8.45	7.83	8.66	8.45	7.83
	Cdc(degradation coefficient)	-	0.90	0.90	0.90	0.90	0.90
(D) condition (20°C)	Pdc (declared cooling capacity)	[kW]	3.33	3.40	3.33	3.33	3.40
	EERd (declared EER)	-	10.07	10.35	10.07	10.07	10.35
	Cdc(degradation coefficient)	-	0.90	0.90	0.90	0.90	0.90
Air to water unit	Rated airflow (outdoor)	[m ³ /h]	4060	4650	4060	4060	4650
Brine/water to water unit	Rated water/brine flow (outdoor H/E)	-	/	/	/	/	/
Other	Capacity control	-	Inverter	Inverter	Inverter	Inverter	Inverter
	Poff (Power consumption Off mode)	[kW]	0.014	0.014	0.020	0.020	0.020
	Pto (Power consumption Thermostat off mode)	[kW]	0.010	0.010	0.010	0.010	0.010
	Psb (Power consumption Standby mode)	[kW]	0.014	0.014	0.020	0.020	0.020
	Pck (Power crankcase heater mode)	[kW]	0.000	0.000	0.000	0.000	0.000
	Qelec (Daily electricity consumption)	[kWh]	/	/	/	/	/
	Qfuel (Daily fuel consumption)	[kWh]	/	/	/	/	/

Condition(°C)	Model	Capacity (kW)	Power input (kW)	EER/COP (/)
Ambient Temperature: 35/24 Water temperature: 12/7	AW-WHPMA04-H91	4.70	1.36	3.45
	AW-WHPMA06-H91	7.00	2.33	3.00
	AW-WHPMA08-H91	7.45	2.22	3.35
	AW-WHPMA10-H91	8.20	2.52	3.25
	AW-WHPMA12-H91	11.5	4.18	2.75
	AW-WHPMA14-H91	12.4	4.96	2.50
	AW-WHPMA16-H91	14.0	5.60	2.50
	AW-WHPMA12-H93	11.5	4.18	2.75
	AW-WHPMA14-H93	12.4	4.96	2.50
	AW-WHPMA16-H93	14.0	5.60	2.50
Ambient Temperature: 35/24 Water temperature: 23/18	AW-WHPMA04-H91	4.50	0.82	5.50
	AW-WHPMA06-H91	6.50	1.35	4.80
	AW-WHPMA08-H91	8.30	1.64	5.05
	AW-WHPMA10-H91	9.90	2.18	4.55
	AW-WHPMA12-H91	12.00	3.04	3.95
	AW-WHPMA14-H91	13.50	3.74	3.61
	AW-WHPMA16-H91	14.20	3.94	3.61
	AW-WHPMA12-H93	12.00	3.04	3.95
	AW-WHPMA14-H93	13.50	3.74	3.61
	AW-WHPMA16-H93	14.20	3.94	3.61
Ambient Temperature: 7/6 Water temperature: 30/35	AW-WHPMA04-H91	4.20	0.82	5.10
	AW-WHPMA06-H91	6.35	1.28	4.95
	AW-WHPMA08-H91	8.40	1.63	5.15
	AW-WHPMA10-H91	10.0	2.02	4.95
	AW-WHPMA12-H91	12.1	2.44	4.95
	AW-WHPMA14-H91	14.5	3.15	4.60
	AW-WHPMA16-H91	15.9	3.53	4.50
	AW-WHPMA12-H93	12.1	2.44	4.95
	AW-WHPMA14-H93	14.5	3.15	4.60
	AW-WHPMA16-H93	15.9	3.53	4.50
Ambient Temperature: 2/1 Water temperature: 30/35	AW-WHPMA04-H91	4.40	1.10	4.00
	AW-WHPMA06-H91	5.50	1.41	3.90
	AW-WHPMA08-H91	7.10	1.73	4.10
	AW-WHPMA10-H91	8.20	2.05	4.00
	AW-WHPMA12-H91	9.2	2.36	3.90
	AW-WHPMA14-H91	11.0	3.06	3.60
	AW-WHPMA16-H91	13.0	3.77	3.45
	AW-WHPMA12-H93	9.2	2.36	3.90
	AW-WHPMA14-H93	11.0	3.06	3.60
	AW-WHPMA16-H93	13.0	3.77	3.45

Condition(°C)	Model	Capacity (kW)	Power input (kW)	EER/COP (/)
Ambient Temperature: -7/-8 Water temperature: 30/35	AW-WHPMA04-H91	4.70	1.52	3.10
	AW-WHPMA06-H91	6.00	2.00	3.00
	AW-WHPMA08-H91	7.00	2.19	3.20
	AW-WHPMA10-H91	8.00	2.62	3.05
	AW-WHPMA12-H91	10.00	3.33	3.00
	AW-WHPMA14-H91	12.00	4.21	2.85
	AW-WHPMA16-H91	13.10	4.85	2.70
	AW-WHPMA12-H93	10.00	3.33	3.00
	AW-WHPMA14-H93	12.00	4.21	2.85
	AW-WHPMA16-H93	13.10	4.85	2.70
Ambient Temperature: 7/6 Water temperature: 40/45	AW-WHPMA04-H91	4.30	1.13	3.80
	AW-WHPMA06-H91	6.30	1.70	3.70
	AW-WHPMA08-H91	8.10	2.10	3.85
	AW-WHPMA10-H91	10.0	2.67	3.75
	AW-WHPMA12-H91	12.3	3.32	3.70
	AW-WHPMA14-H91	14.1	3.92	3.60
	AW-WHPMA16-H91	16.0	4.57	3.50
	AW-WHPMA12-H93	12.3	3.32	3.70
	AW-WHPMA14-H93	14.1	3.92	3.60
	AW-WHPMA16-H93	16.0	4.57	3.50
Ambient Temperature: 2/1 Water temperature: 40/45	AW-WHPMA04-H91	5.10	1.70	3.00
	AW-WHPMA06-H91	5.80	1.93	3.00
	AW-WHPMA08-H91	7.40	2.28	3.25
	AW-WHPMA10-H91	7.85	2.45	3.20
	AW-WHPMA12-H91	10.60	3.53	3.00
	AW-WHPMA14-H91	11.50	4.04	2.85
	AW-WHPMA16-H91	12.70	4.46	2.85
	AW-WHPMA12-H93	10.60	3.53	3.00
	AW-WHPMA14-H93	11.50	4.04	2.85
	AW-WHPMA16-H93	12.70	4.46	2.85
Ambient Temperature: -7/-8 Water temperature: 40/45	AW-WHPMA04-H91	4.30	1.83	2.35
	AW-WHPMA06-H91	5.40	2.25	2.40
	AW-WHPMA08-H91	6.60	2.59	2.55
	AW-WHPMA10-H91	7.35	2.88	2.55
	AW-WHPMA12-H91	10.20	4.25	2.40
	AW-WHPMA14-H91	11.70	4.98	2.35
	AW-WHPMA16-H91	12.80	5.69	2.25
	AW-WHPMA12-H93	10.20	4.25	2.40
	AW-WHPMA14-H93	11.70	4.98	2.35
	AW-WHPMA16-H93	12.80	5.69	2.25

Condition(°C)	Model	Capacity (kW)	Power input (kW)	EER/COP (/)
Ambient Temperature: 7/6 Water temperature: 47/55	AW-WHPMA04-H91	4.40	1.49	2.95
	AW-WHPMA06-H91	6.00	2.03	2.95
	AW-WHPMA08-H91	7.50	2.36	3.18
	AW-WHPMA10-H91	9.50	3.06	3.10
	AW-WHPMA12-H91	11.9	3.90	3.05
	AW-WHPMA14-H91	13.8	4.68	2.95
	AW-WHPMA16-H91	16.0	5.61	2.85
	AW-WHPMA12-H93	11.9	3.90	3.05
	AW-WHPMA14-H93	13.8	4.68	2.95
	AW-WHPMA16-H93	16.0	5.61	2.85
Ambient Temperature: 2/1 Water temperature: 47/55	AW-WHPMA04-H91	5.10	2.08	2.45
	AW-WHPMA06-H91	5.65	2.31	2.45
	AW-WHPMA08-H91	7.10	2.73	2.60
	AW-WHPMA10-H91	8.10	3.16	2.56
	AW-WHPMA12-H91	11.30	4.52	2.50
	AW-WHPMA14-H91	12.40	5.06	2.45
	AW-WHPMA16-H91	13.30	5.54	2.40
	AW-WHPMA12-H93	11.30	4.52	2.50
	AW-WHPMA14-H93	12.40	5.06	2.45
	AW-WHPMA16-H93	13.30	5.54	2.40
Ambient Temperature: -7/-8 Water temperature: 47/55	AW-WHPMA04-H91	4.00	2.05	1.95
	AW-WHPMA06-H91	5.15	2.58	2.00
	AW-WHPMA08-H91	6.15	3.00	2.05
	AW-WHPMA10-H91	6.85	3.43	2.00
	AW-WHPMA12-H91	9.80	4.78	2.05
	AW-WHPMA14-H91	11.00	5.37	2.05
	AW-WHPMA16-H91	12.50	6.25	2.00
	AW-WHPMA12-H93	9.80	4.78	2.05
	AW-WHPMA14-H93	11.00	5.37	2.05
	AW-WHPMA16-H93	12.50	6.25	2.00

ErP Information

Fan Types	Axial fan		
Directive (or Standard) for Regulation	ErP Directive 2009/125/EC COMMISSION REGULATION (EU) No 327/2011		
Model Name	WZDK170-38G-1	Rev.	
Prepare by			

Specified Information of Fan:

No.	Information Item	Comment
1	$\eta_{\text{target}} =$	29.1%
2	Overall efficiency (η_e) =	33.1%
3	Pass or not (Criteria: $\eta_e \geq \eta_{\text{target}}$)	Pass
4	Measurement category (A-D)	A
5	Efficiency category (static or total)	Static
6	Efficiency grade at optimum energy efficiency point	N =43.9
7	VSD is integrated within the fan	YES
8	Year of Manufacture	Ref. to the Unit Nameplate
9	Manufacturer's name and place of manufacture	Ref. to the Unit Nameplate
10.1	Rated motor power input(s) (kW), at optimum energy efficiency	0.190kw
10.2	Rated motor flow rate(s) at optimum energy efficiency	1.368m ³ /s
10.3	Rated motor pressure(s) at optimum energy efficiency	40Pa
11	Rotations per minute (R.P.M)at the optimum energy efficiency point	800r/min
12	Specific ratio	1.001
13	Information relevant for facilitating disassembly, recycling or disposal at end-of-life	all materials can be recycled
14	Information relevant to minimize impact on the environment and ensure optimal life expectancy as regards installation, use and maintenance of the fan	For installation, the clearance of 500 mm shall be kept from inlet
15	Description of additional items used when determining the fan energy efficiency, such as ducts, that are not described in the measurement category and not supplied with the fan.	Measure ment category A, fan is free inlet and outlet conditions
16	Motor manufacturer	NIDEC SHIBAURA (ZHE JIANG) CORP.

ErP Information

Fan Types	Axial fan		
Directive (or Standard) for Regulation	ErP Directive 2009/125/EC COMMISSION REGULATION (EU) No 327/2011		
Model Name	WZDK170-38G-1	Rev.	
Prepare by			

Specified Information of Fan:

No.	Information Item	Comment
1	$\eta_{\text{target}} =$	29.1%
2	Overall efficiency (η_e) =	33.7%
3	Pass or not (Criteria: $\eta_e \geq \eta_{\text{target}}$)	Pass
4	Measurement category (A-D)	A
5	Efficiency category (static or total)	Static
6	Efficiency grade at optimum energy efficiency point	N =44.6
7	VSD is integrated within the fan	YES
8	Year of Manufacture	Ref. to the Unit Nameplate
9	Manufacturer's name and place of manufacture	Ref. to the Unit Nameplate
10.1	Rated motor power input(s) (kW), at optimum energy efficiency	0.186kw
10.2	Rated motor flow rate(s) at optimum energy efficiency	1.37m ³ /s
10.3	Rated motor pressure(s) at optimum energy efficiency	40Pa
11	Rotations per minute (R.P.M)at the optimum energy efficiency point	800r/min
12	Specific ratio	1.001
13	Information relevant for facilitating disassembly, recycling or disposal at end-of-life	all materials can be recycled
14	Information relevant to minimize impact on the environment and ensure optimal life expectancy as regards installation, use and maintenance of the fan	For installation, the clearance of 500 mm shall be kept from inlet
15	Description of additional items used when determining the fan energy efficiency,such as ducts, that are not described in the measurement category and not supplied with the fan.	Measurement category A, fan is free inlet and outlet conditions
16	Motor manufacturer	GUANGDONG WELLING MOTOR MANUFACTURING CO.,LTD.

ErP Information

Fan Types	Axial fan		
Directive (or Standard) for Regulation	ErP Directive 2009/125/EC COMMISSION REGULATION (EU) No 327/2011		
Model Name	WZDK170-38G-1	Rev.	
Prepare by			

Specified Information of Fan:

No.	Information Item	Comment
1	$\eta_{\text{target}} =$	29.0%
2	Overall efficiency (η_e) =	34.6%
3	Pass or not (Criteria: $\eta_e \geq \eta_{\text{target}}$)	Pass
4	Measurement category (A-D)	A
5	Efficiency category (static or total)	Static
6	Efficiency grade at optimum energy efficiency point	N =45.7
7	VSD is integrated within the fan	YES
8	Year of Manufacture	Ref. to the Unit Nameplate
9	Manufacturer's name and place of manufacture	Ref. to the Unit Nameplate
10.1	Rated motor power input(s) (kW), at optimum energy efficiency	0.180kW
10.2	Rated motor flow rate(s) at optimum energy efficiency	1.378m ³ /s
10.3	Rated motor pressure(s) at optimum energy efficiency	40Pa
11	Rotations per minute (R.P.M)at the optimum energy efficiency point	800r/min
12	Specific ratio	1.001
13	Information relevant for facilitating disassembly, recycling or disposal at end-of-life	all materials can be recycled
14	Information relevant to minimize impact on the environment and ensure optimal life expectancy as regards installation, use and maintenance of the fan	For installation, the clearance of 500 mm shall be kept from inlet
15	Description of additional items used when determining the fan energy efficiency,such as ducts, that are not described in the measurement category and not supplied with the fan.	Measurement category A, fan is free inlet and outlet conditions
16	Motor manufacturer	Panasonic Motor (HangZhou) CO.,LTD.

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