

# **TECHNICAL DATA MANUAL**

# Heat Pump Monobloc R32

IMPORTANT NOTE:		

Thank you very much for purchasing our product, Before using your unit , please read this manual carefully and keep it for future reference.

Heat pump space he	ater	unit	AW-WHPM05-H91	AW-WHPM07-H91	AW-WHPM09-H91	AW-WHPM12-H91	AW-WHPM14-H91	AW-WHPM16-H91	AW-WHPM12-H93	AW-WHPM14-H93	AW-WHPM16-H93
Indoor unit sound po	wer (*)	[dB(A)]	/	/	1	/	1	/	/	1	/
Outdoor unit sound p	bower (*)	[dB(A)]	61	64	67	68	71	71	68	71	71
Capacity of the back-up heater integrated in the unit	Psup back-up heater	[kW]	0	0	0	0	0	0	0	0	0
off peak operation fu Heat pump		Y/N	No	No	No	No	No	No	No	No	No
Space heating	Energy efficiency class 35°C (Low temp. app.)	-	A+++	A+++	A+++	A++	A++	A++	A++	A++	A++
Space heating	Energy efficiency class 55°C(Medium temp. app.)	-	A++	A++	A++	A++	A++	A++	A++	A++	A++
	sign temperature= –10	°C)								1	1
	Prated(declared heating capacity) @-10°C	[kW]	7	7	8	12	14	16	12	14	16
Space heating 35°C	Seasonal space heating efficiency(ηs)	[%]	176	176	177	169	168	169	169	168	169
	Annual energy consumption	[kWh]	3,071	3,071	3,844	5,726	6,819	7,687	5,726	6,819	7,687
	Prated(declared heating capacity) @-10°C	[kW]	7	7	7	13	14	15	13	14	15
Space heating 55°C	Seasonal space heating efficiency(ηs)	[%]	127	127	126	126	128	128	126	128	128
	Annual energy consumption	[kWh]	4,203	4,203	4,770	8,164	8,724	9,216	8,164	8,724	9,216
Part load conditions	space heating average	climate	e low temperatu	ire application					L	1	
	Pdh(declared heating capacity)	[kW]	5.88	5.88	7.42	10.52	12.47	14.15	10.52	12.47	14.15
(A) condition (-7°C)	COPd (declared COP)	-	2.91	2.91	2.80	2.88	2.84	2.72	2.88	2.84	2.72
	Cdh(degradation coefficient)	-	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90
	Pdh(declared heating capacity)	[kW]	3.64	3.64	4.83	6.50	7.48	8.92	6.50	7.48	8.92
(B) condition (2°C)	COPd (declared COP)	-	4.38	4.38	4.33	4.15	4.19	4.17	4.15	4.19	4.17
	Cdh(degradation coefficient)	-	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90
	Pdh(declared heating capacity)	[kW]	2.42	2.42	3.20	4.12	5.04	5.64	4.12	5.04	5.64
(C) condition (7°C)	COPd (declared COP)	-	5.89	5.89	6.20	5.74	5.99	5.86	5.74	5.99	5.86
	Cdh(degradation coefficient)	-	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90
	Pdh(declared heating capacity)	[kW]	1.03	1.03	1.55	2.23	2.23	2.47	2.23	2.23	2.47
	COPd (declared COP)	-	5.89	5.89	7.61	5.40	5.30	6.28	5.40	5.30	6.28
	Cdh(degradation coefficient)	-	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90

Heat pump space h	eater	unit	AW-WHPM05-H91	AW-WHPM07-H91	AW-WHPM09-H91	AW-WHPM12-H91	AW-WHPM14-H91	AW-WHPM16-H91	AW-WHPM12-H93	AW-WHPM14-H93	AW-WHPM16-H93
	Tol (temperature operating limit)	[°C]	-10	-10	-10	-10	-10	-10	-10	-10	-10
(L) rol(temperature)	Pdh (declared heating capacity)	[kW]	6.62	6.62	6.64	12.01	12.72	12.93	12.01	12.72	12.93
operating limit)	COPd (declared COP)	-	2.63	2.63	2.54	2.60	2.51	2.41	2.60	2.51	2.41
	WTOL (Heating water Operation Limit)	[°C]	60	60	60	60	60	60	60	60	60
	Tblv	[°C]	-7	-7	-7	-7	-7	-7	-7	-7	-7
(F) Tbivalent temperature	Pdh (declared heating capacity)	[kW]	5.88	5.88	7.42	10.52	12.47	14.15	10.52	12.47	14.15
temperature	COPd (declared COP)	-	2.91	2.91	2.80	2.88	2.84	2.72	2.88	2.84	2.72
Supplementary capacity at P_design	Psup (@Tdesignh:-10°C)	[kW]	0.00	0.00	1.80	0.00	1.40	3.10	0.00	1.40	3.10
Part load conditions	space heating average	climate	e medium temp	erature applica	tion					•	•
	Pdh (declared heating capacity)	[kW]	5.83	5.83	6.58	11.29	12.18	12.90	11.29	12.18	12.90
(A) condition (-7°C)	COPd (declared COP)	-	1.97	1.97	1.87	2.05	2.05	2.04	2.05	2.05	2.04
	Cdh(degradation coefficient)	-	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90
	Pdh (declared heating capacity)	[kW]	3.68	3.68	4.25	7.31	7.84	8.25	7.31	7.84	8.25
(B) condition (2°C)	COPd (declared COP)	-	3.22	3.22	3.19	3.14	3.18	3.21	3.14	3.18	3.21
	Cdh(degradation coefficient)	-	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90
	Pdh (declared heating capacity)	[kW]	2.47	2.47	2.80	4.96	5.21	5.45	4.96	5.21	5.45
(C) condition (7°C)	COPd (declared COP)	-	4.21	4.21	4.38	4.25	4.29	4.32	4.25	4.29	4.32
	Cdh(degradation coefficient)	-	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90
	Pdh (declared heating capacity)	[kW]	1.26	1.26	1.27	2.37	2.57	2.57	2.37	2.57	2.57
(D) condition (12°C)	COPd (declared COP)	-	4.91	4.91	5.04	4.94	5.14	5.12	4.94	5.14	5.12
	Cdh(degradation coefficient)	-	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90
	Tol (temperature operating limit)	[°C]	-10	-10	-10	-10	-10	-10	-10	-10	-10
(E) Tol(temperature	Pdh (declared heating capacity)	[kW]	5.86	5.86	5.53	11.88	11.68	11.16	11.88	11.68	11.16
operating limit)	COPd (declared COP)	-	1.62	1.62	1.51	1.79	1.74	1.65	1.79	1.74	1.65
	WTOL (Heating water Operation Limit)	[°C]	60	60	60	60	60	60	60	60	60
	Tblv	[°C]	-7	-7	-7	-7	-7	-7	-7	-7	-7
(F) Tbivalent temperature	Pdh (declared heating capacity)	[kW]	5.83	5.83	6.58	11.29	12.18	12.90	11.29	12.18	12.90
	COPd (declared COP)	-	1.97	1.97	1.87	2.05	2.05	2.04	2.05	2.05	2.04
Supplementary capacity at P_design	Psup (@Tdesignh:-10°C)	[kW]	0.70	0.70	1.80	0.90	2.10	3.40	0.90	2.10	3.40

Heat pump space heat	ter	unit	AW-WHPM05-H91	AW-WHPM07-H91	AW-WHPM09-H91	AW-WHPM12-H91	AW-WHPM14-H91	AW-WHPM16-H91	AW-WHPM12-H93	AW-WHPM14-H93	AW-WHPM16-H93
Colder climate (Design te	emperature = –22°C)	<b></b>	•								
	Prated (declared heating capacity) @ -22°C	[kW]	5	7	8	13	14	16	13	14	16
Space heating 35°C	Seasonal space heating efficiency (ŋs)	[%]	133	150	149	131	143	143	131	143	143
	Annual energy consumption	[kWh]	3,486	4,217	5,303	9,294	9,427	10,487	9,294	9,427	10,487
	Prated (declared heating capacity) @ -22°C	[kW]	5	7	8	12	14	15	12	14	15
Space heating 55°C	Seasonal space heating efficiency (ŋs)	[%]	97	104	109	96	102	106	96	102	106
	Annual energy consumption	[kWh]	4,661	6,136	7,286	12,299	13,449	13,768	12,299	13,449	13,768
Part load conditions sp	ace heating colder clir	nate l	ow temperature	application							
	Pdh (declared heating capacity)	[kW]	3.92	5.35	5.85	10.31	11.39	11.38	10.31	11.39	11.38
condition (-15°C)	COPd (declared COP)	-	2.43	2.48	2.42	2.38	2.32	2.33	2.38	2.32	2.33
	Cdh(degradation coefficient)	-	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90
	Pdh (declared heating capacity)	[kW]	2.86	4.19	5.31	7.74	8.71	9.98	7.74	8.71	9.98
(A) condition (-7°C)	COPd (declared COP)	-	3.09	3.22	3.22	3.18	3.17	3.15	3.18	3.17	3.15
	Cdh(degradation coefficient)	-	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90
	Pdh (declared heating capacity)	[kW]	1.74	2.59	3.35	4.32	5.48	5.83	4.32	5.48	5.83
(B) condition (2°C)	COPd (declared COP)	-	4.09	4.53	4.76	4.00	4.27	4.33	4.00	4.27	4.33
	Cdh(degradation coefficient)	-	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90
	Pdh (declared heating capacity)	[kW]	1.12	1.79	2.09	3.00	3.50	4.13	3.00	3.50	4.13
(C) condition (7°C)	COPd (declared COP)	-	4.52	6.13	6.34	5.69	5.89	6.12	5.69	5.89	6.12
	Cdh(degradation coefficient)	-	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90
	Pdh (declared heating capacity)	[kW]	0.69	1.03	1.03	1.81	1.84	2.57	1.81	1.84	2.57
(D) condition (12°C)	COPd (declared COP)	-	4.04	6.00	5.75	4.56	4.52	6.50	4.56	4.52	6.50
	Cdh(degradation coefficient)	-	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90
	Tol (temperature operating limit)	[°C]	-20	-20	-20	-22	-22	-22	-22	-22	-22
(E) Tol(temperature	Pdh (declared heating capacity)	[kW]	4.78	4.93	4.91	8.54	8.77	9.06	8.54	8.77	9.06
operating limit)	COPd (declared COP)	-	2.10	2.10	2.08	1.80	1.84	1.88	1.80	1.84	1.88
	WTOL (Heating water Operation Limit)	[°C]	40	40	40	37	37	37	37	37	37
	Tblv	[°C]	-15	-15	-13	-15	-15	-13	-15	-15	-13
(F) Tbivalent temperature	Pdh (declared heating capacity)	[kW]	3.92	5.35	6.26	10.30	11.39	11.85	10.30	11.39	11.85
	COPd (declared COP)	-	2.43	2.48	2.53	2.38	2.32	2.39	2.38	2.32	2.39
Supplementary capacity at P_design	Psup (@Tdesignh:-22°C)	[kW]	1.10	3.00	4.50	4.10	5.20	6.50	4.10	5.20	6.50

Heat pump space heat	er	unit	AW-WHPM05-H91	AW-WHPM07-H91	AW-WHPM09-H91	AW-WHPM12-H91	AW-WHPM14-H91	AW-WHPM16-H91	AW-WHPM12-H93	AW-WHPM14-H93	AW-WHPM16-H93
Part load conditions sp	ace heating colder clir	nate n	nedium temper	ature applicatio	on						
	Pdh (declared heating capacity)	[kW]	3.86	5.42	5.49	10.09	10.82	10.74	10.09	10.82	10.74
condition (-15°C)	COPd (declared COP)	-	1.73	1.80	1.76	1.78	1.77	1.76	1.78	1.77	1.76
c	Cdh(degradation coefficient)	-	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90
	Pdh (declared heating capacity)	[kW]	2.97	4.15	5.41	7.34	8.86	9.64	7.34	8.86	9.64
(A) condition (-7°C)	COPd (declared COP)	-	2.18	2.38	2.43	2.27	2.35	2.38	2.27	2.35	2.38
	Cdh(degradation coefficient)	-	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90
	Pdh (declared heating capacity)	[kW]	1.75	2.67	3.30	4.47	5.30	5.59	4.47	5.30	5.59
(B) condition (2°C)	COPd (declared COP)	-	2.94	3.05	3.40	2.90	3.16	3.31	2.90	3.16	3.31
	Cdh(degradation coefficient)	-	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90
	Pdh (declared heating capacity)	[kW]	1.16	1.71	2.17	2.88	3.28	3.95	2.88	3.28	3.95
(C) condition (7°C)	COPd (declared COP)	-	3.57	4.16	4.59	3.96	4.10	4.47	3.96	4.10	4.47
	Cdh(degradation coefficient)	-	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90
	Pdh (declared heating capacity)	[kW]	0.61	0.91	0.90	1.44	1.44	1.90	1.44	1.44	1.90
(D) condition (12°C)	COPd (declared COP)	-	2.93	4.28	4.28	3.22	3.20	4.05	3.22	3.20	4.05
	Cdh(degradation coefficient)	-	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90
	Tol (temperature operating limit)	[°C]	-18	-18	-18	-18	-18	-18	-18	-18	-18
(E) Tol(temperature	Pdh (declared heating capacity)	[kW]	4.10	4.05	4.17	7.66	7.65	6.72	7.66	7.65	6.72
operating limit)	COPd (declared COP)	-	1.28	1.25	1.29	1.27	1.26	1.10	1.27	1.26	1.10
	WTOL (Heating water Operation Limit)	[°C]	44	44	44	44	44	44	44	44	44
	Tblv	[°C]	-15	-15	-12	-15	-14	-13	-15	-14	-13
(F) Tbivalent temperature	Pdh (declared heating capacity)	[kW]	3.86	5.42	6.08	10.09	11.33	11.64	10.09	11.33	11.64
	COPd (declared COP)	-	1.73	1.80	1.98	1.78	1.85	1.88	1.78	1.85	1.88
Supplementary capacity at P_design	Psup (@Tdesignh:-22°C)	[kW]	2.70	4.60	6.30	6.80	8.70	9.60	6.80	8.70	9.60
Warmer climate (Desig	n temperature =2°C)										
	Prated (declared heating capacity) @ 2°C	[kW]	5	7	8	12	14	16	12	14	16
Space heating 35°C	Seasonal space heating efficiency (ηs)	[%]	224	218	248	236	240	233	236	240	233
	Annual energy consumption	[kWh]	1,109	1,660	1,597	2,724	3,098	3,574	2,724	3,098	3,574
	Prated (declared heating capacity) @ 2°C	[kW]	5	7	9	12	14	16	12	14	16
Space heating 55°C	Seasonal space heating efficiency (ηs)	[%]	142	154	164	148	154	154	148	154	154
	Annual energy consumption	[kWh]	1,683	2,255	2,774	4,207	4,746	5,367	4,207	4,746	5,367

Heat pump space heat	er	unit	AW-WHPM05-H91	AW-WHPM07-H91	AW-WHPM09-H91	AW-WHPM12-H91	AW-WHPM14-H91	AW-WHPM16-H91	AW-WHPM12-H93	AW-WHPM14-H93	AW-WHPM16-H93
Part load conditions sp	ace heating warmer c	limate	low temperatur	e application							
	Pdh (declared heating capacity)	[kW]	4.80	6.76	7.58	12.03	14.13	15.25	12.03	14.13	15.25
(B) condition (2°C)	COPd (declared COP)	-	3.78	3.75	2.90	3.60	3.39	2.94	3.60	3.39	2.94
	Cdh(degradation coefficient)	-	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90
	Pdh (declared heating capacity)	[kW]	3.03	4.42	4.82	7.84	9.03	10.13	7.84	9.03	10.13
(C) condition (7°C)	COPd (declared COP)	-	5.29	5.53	5.46	5.45	5.38	5.32	5.45	5.38	5.32
	Cdh(degradation coefficient)	-	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90
	Pdh (declared heating capacity)	[kW]	1.45	1.89	2.44	3.49	4.30	4.91	3.49	4.30	4.91
(D) condition (12°C)	COPd (declared COP)	-	6.47	7.53	8.24	7.14	7.45	7.48	7.14	7.45	7.48
	Cdh(degradation coefficient)	-	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90
	Tol (temperature operating limit)	[°C]	2	2	2	2	2	2	2	2	2
(E) Tol(temperature operating limit)	Pdh (declared heating capacity)	[kW]	4.80	6.76	7.58	12.03	14.13	15.25	12.03	14.13	15.25
,	COPd (declared COP)	-	3.78	3.75	2.90	3.60	3.39	2.94	3.60	3.39	2.94
	WTOL (Heating water Operation Limit)	[°C]	60	60	60	60	60	60	60	60	60
(F) Tbivalent	Tblv	[°C]	7	7	7	7	7	7	7	7	7
temperature	Pdh (declared heating capacity)	[kW]	3.03	4.42	4.82	7.84	9.03	10.13	7.84	9.03	10.13
	COPd (declared COP)	-	5.29	5.53	5.46	5.45	5.38	5.32	5.45	5.38	5.32
Supplementary capacity at P_design	Psup (@Tdesignh:2°C)	[kW]	0.00	0.10	0.00	0.20	0.00	0.50	0.20	0.00	0.50
Part load conditions sp	pace heating warmer c	limate	medium tempe	erature applicat	ion						
	Pdh (declared heating capacity)	[kW]	4.70	6.63	8.57	11.88	13.80	14.12	11.88	13.80	14.12
(B) condition (2°C)	COPd (declared COP)	-	2.27	2.18	2.15	2.18	2.17	2.14	2.18	2.17	2.14
	Cdh(degradation coefficient)	-	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90
	Pdh (declared heating capacity)	[kW]	2.94	4.26	5.55	7.61	8.95	10.10	7.61	8.95	10.10
(C) condition (7°C)	COPd (declared COP)	-	3.10	3.34	3.43	3.08	3.18	3.22	3.08	3.18	3.22
	Cdh(degradation coefficient)	-	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90
	Pdh (declared heating capacity)	[kW]	1.48	1.94	2.59	3.52	4.15	4.77	3.52	4.15	4.77
(D) condition (12°C)	COPd (declared COP)	-	4.56	4.99	5.57	4.94	5.26	5.46	4.94	5.26	5.46
	Cdh(degradation coefficient)	-	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90
	Tol (temperature operating limit)	[°C]	2	2	2	2	2	2	2	2	2
(E) Tol(temperature operating limit)	Pdh (declared heating capacity)	[kW]	4.70	6.63	8.57	11.88	13.80	14.12	11.88	13.80	14.12
,	COPd (declared COP)	-	2.27	2.18	2.15	2.18	2.17	2.14	2.18	2.17	2.14
	WTOL (Heating water Operation Limit)	[°C]	60	60	60	60	60	60	60	60	60

Heat pump space hea	ater	unit	AW-WHPM05-H91	AW-WHPM07-H91	AW-WHPM09-H91	AW-WHPM12-H91	AW-WHPM14-H91	AW-WHPM16-H91	AW-WHPM12-H93	AW-WHPM14-H93	AW-WHPM16-H9
(F) Tbivalent	Tblv	[°C]	7	7	7	7	7	7	7	7	7
temperature	Pdh (declared heating capacity)	[kW]	2.94	4.26	5.55	7.61	8.95	10.10	7.61	8.95	10.10
	COPd (declared COP)	-	3.10	3.34	3.43	3.08	3.18	3.22	3.08	3.18	3.22
Supplementary capacity at P_design	Psup (@Tdesignh:2°C)	[kW]	0.00	0.00	0.00	0.00	0.10	1.60	0.00	0.10	1.60
Ecodesign technical o	lata										
	Air-to-water heat pump	Y/N	Yes	Yes							
	Water-to-water heat pump	Y/N	No	No							
Due due toda e esta tiera	Brine-to-water heat pump	Y/N	No	No							
Product description	Low-temperature heat pump	Y/N	No	No							
	Equipped with a supplementary heater	Y/N	No	No	No	Yes	Yes	Yes	Yes	Yes	Yes
	Heat pump combination heater	Y/N	No	No							
Air to water unit	Rated airflow (outdoor)	[m <sup>3</sup> /h]	3050	3050	3050	6150	6150	6150	6150	6150	6150
Brine/water to water unit	Rated water/brine flow (outdoor H/E)	[m <sup>3</sup> /h]	1	1	1	/	/	/	/	/	1
	Capacity control	-	Inverter	Inverter							
	Poff (Power consumption Off mode)	[kW]	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009
	Pto (Power consumption Thermostat off mode)	[kW]	0.009	0.006	0.010	0.015	0.026	0.041	0.015	0.026	0.041
Other	Psb (Power consumption Standby mode)	[kW]	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009
	PCK (Power crankcase heater model)	[kW]	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	Qelec (Daily electricity consumption)	[kWh]	1	/	1	/	1	1	/	/	1
	Qfuel (Daily fuel consumption)	[kWh]	1	1	1	1	1	1	1	1	1

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

AW-WHPM05-H91
YES
NO
AVERAGE

Parameters are declared for medium-temperature application.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	6.6	kW	Seasonal space heating energy efficiency	ηs	127	%
Declared capacity for heating for part load a and outdoor temperature Tj	at indoor tem	perature 20 °C	;	Declared coefficient of performance or primindoor temperature 20 °C and outdoor te			ad at
Tj = -7 °C	Pdh	5.8	kW	Tj = -7 °C	COPd	1.97	-
Tj = 2 °C	Pdh	3.7	kW	<b>Tj = 2</b> ℃	COPd	3.22	-
<b>Tj = 7</b> ℃	Pdh	2.5	kW	<b>Tj = 7</b> ℃	COPd	4.21	-
Tj = 12℃	Pdh	1.3	kW	Tj = 12°C	COPd	4.91	-
Tj = bivalent temperature	Pdh	5.8	kW	Tj = bivalent temperature	COPd	1.97	-
Tj = operating limit	Pdh	5.9	kW	Tj = operating limit	COPd	1.62	-
For air-to-water heat pumps: Tj = -15 $^\circ$	Pdh	-	kW	For air-to-water heat pumps: Tj = -15 $^\circ\!$	COPd	-	-
Bivalent temperature	Tbiv	-7	°C	For air-to-water heat pumps: Operation limit temperature	TOL	-10	°C
Cycling interval capacity for heating	Pcych	-	kW	Cycling interval efficiency	COPcyc	-	-
Degradation co-efficient (**)	Cdh	0.9		Heating water operating limit temperature	WTOL	60	°C
Power consumption in modes other than ac	tive mode			Supplementary heater			
Off mode	Poff	0.009	kW	Rated heat output (**)	Psup	0.7	1.3.07
Standby mode	Psb	0.009	kW		r sup	0.7	kW
Thermostat-off mode	Pto	0.006	kW	Type of energy input		Electrical	
Crankcase heater mode	Pck	0.000	kW			Lioounour	
Other items							
Capacity control		variable		For air-to-water heat pumps: Rated air flow rate, outdoors	-	3050	m³/h
Sound power level, indoors/outdoors	L <sub>WA</sub>	-/61	dB	For water-or brine-to-water heat pumps: Rated brine or water flow rate, outdoor	-	-	m³/h
Annual energy consumption	Q <sub>HE</sub>	4203	kWh	heat exchanger			
For heat pump combination heater:							
Declared load profile		-		Water heating energy efficiency	η <sub>wh</sub>	-	%
Daily electricity consumption	Q <sub>clec</sub>	-	kWh	Daily fuel consumption	Q <sub>fuel</sub>	-	kWł
Daily clocatory concamption				Annual fuel consumption	AFC		GJ

Model(s):	AW-WHPM05-H91
Air-to-water heat pump:	YES
Water-to-water heat pump:	NO
Brine-to-water heat pump:	NO
Low-temperature heat pump:	NO
Equipped with a supplementary heater:	NO
Heat pump combination heater:	NO
Declared climate condition:	COLDER

Parameters are declared for medium-temperature application.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	4.7	kW	Seasonal space heating energy efficiency	ηs	97	%
Declared capacity for heating for part load a and outdoor temperature Tj	at indoor tem	perature 20 °C	;	Declared coefficient of performance or primindoor temperature 20 °C and outdoor te			ıd at
Tj = -7 ℃	Pdh	3.0	kW	Tj = -7 ℃	COPd	2.18	-
Tj = 2 <sup>°</sup> C	Pdh	1.8	kW	Tj = 2 °C	COPd	2.94	-
<b>Tj = 7</b> °C	Pdh	1.2	kW	Tj = 7 °C	COPd	3.57	-
Tj = 12℃	Pdh	0.6	kW	Tj = 12 <sup>°</sup> C	COPd	2.93	-
Tj = bivalent temperature	Pdh	3.9	kW	Tj = bivalent temperature	COPd	1.73	-
Tj = operating limit	Pdh	4.1	kW	Tj = operating limit	COPd	1.28	-
For air-to-water heat pumps: Tj = -15 $^\circ$ C	Pdh	3.9	kW	For air-to-water heat pumps: Tj = -15 $^\circ$ C	COPd	1.73	-
Bivalent temperature	Tbiv	-15	°C	For air-to-water heat pumps: Operation limit temperature	TOL	-18	°C
Cycling interval capacity for heating	Pcych	-	kW	Cycling interval efficiency	COPcyc	-	-
Degradation co-efficient (**)	Cdh	0.9		Heating water operating limit temperature	WTOL	44	°C
Power consumption in modes other than ac	tive mode			Supplementary heater			
Off mode	Poff	0.009	kW	Deted heat autout (**)		0.7	
Standby mode	Psb	0.009	kW	Rated heat output (**)	Psup	2.7	kW
Thermostat-off mode	Pto	0.009	kW	Type of energy input		_	
Crankcase heater mode	Pck	0.000	kW				
Other items							
Capacity control		variable		For air-to-water heat pumps: Rated air flow rate, outdoors	-	3050	m³/h
Sound power level, indoors/outdoors	L <sub>WA</sub>	-/61	dB	For water-or brine-to-water heat pumps: Rated brine or water flow rate, outdoor	-	-	m³/h
Annual energy consumption	Q <sub>HE</sub>	4661	kWh	heat exchanger			
For heat pump combination heater:							
Declared load profile		-		Water heating energy efficiency	η <sub>wh</sub>	-	%
Daily electricity consumption	Q <sub>clec</sub>	-	kWh	Daily fuel consumption	Q <sub>fuel</sub>	-	kWh
Annual electricity consumption	AEC	-	kWh	Annual fuel consumption	AFC	-	GJ
Contact details		idential SAS u centre - Bât	A Les Qu	adrants - 78280 - Guyancourt - France			

Model(s):	AW-WHPM05-H91
Air-to-water heat pump:	YES
Water-to-water heat pump:	NO
Brine-to-water heat pump:	NO
Low-temperature heat pump:	NO
Equipped with a supplementary heater:	NO
Heat pump combination heater:	NO
Declared climate condition:	WARMER

Parameters are declared for medium-temperature application.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit	
Rated heat output (*)	Prated	4.6	kW	Seasonal space heating energy efficiency	ηs	142	%	
Declared capacity for heating for part load a and outdoor temperature Tj	at indoor tem	perature 20 °C	;	Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj				
<b>Tj = -7</b> <sup>°</sup> C	Pdh	-	kW	Tj = -7℃	COPd	-	-	
Tj = 2 °C	Pdh	4.7	kW	Tj = 2 °C	COPd	2.27	-	
Tj = 7 °C	Pdh	2.9	kW	<b>Tj = 7</b> ℃	COPd	3.10	-	
Tj = 12℃	Pdh	1.5	kW	Tj = 12 <sup>°</sup> C	COPd	4.56	-	
Tj = bivalent temperature	Pdh	2.9	kW	Tj = bivalent temperature	COPd	3.10	-	
Tj = operating limit	Pdh	4.7	kW	Tj = operating limit	COPd	2.27	-	
For air-to-water heat pumps: Tj = -15 $^\circ$ C	Pdh	-	kW	For air-to-water heat pumps: Tj = -15 °C	COPd	-	-	
Bivalent temperature	Tbiv	7	°C	For air-to-water heat pumps: Operation limit temperature	TOL	2	°C	
Cycling interval capacity for heating	Pcych	-	kW	Cycling interval efficiency	COPcyc	-	-	
Degradation co-efficient (**)	Cdh	0.9		Heating water operating limit temperature	WTOL	60	°C	
Power consumption in modes other than ac	tive mode			Supplementary heater	•			
Off mode	Poff	0.009	kW	Poted best output (**)	D			
Standby mode	Psb	0.009	kW	Rated heat output (**)	Psup	0.0	kW	
Thermostat-off mode	Pto	0.009	kW	Type of energy input				
Crankcase heater mode	Pck	0.000	kW			-		
Other items								
Capacity control		variable		For air-to-water heat pumps: Rated air flow rate, outdoors	-	3050	m³/h	
Sound power level, indoors/outdoors	L <sub>WA</sub>	-/61	dB	For water-or brine-to-water heat pumps: Rated brine or water flow rate, outdoor	-	-	m³/h	
Annual energy consumption	Q <sub>HE</sub>	1683	kWh	heat exchanger				
For heat pump combination heater:								
Declared load profile		-		Water heating energy efficiency	η <sub>wh</sub>	-	%	
	Q <sub>clec</sub>	-	kWh	Daily fuel consumption	Q <sub>fuel</sub>	-	kWł	
Daily electricity consumption				Annual fuel consumption	1			

Model(s):	AW-WHPM07-H91
Air-to-water heat pump:	YES
Water-to-water heat pump:	NO
Brine-to-water heat pump:	NO
Low-temperature heat pump:	NO
Equipped with a supplementary heater:	NO
Heat pump combination heater:	NO
Declared climate condition:	AVERAGE

Parameters are declared for medium-temperature application.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit	
Rated heat output (*)	Prated	6.6	kW	Seasonal space heating energy efficiency	ηs	127	%	
Declared capacity for heating for part load a and outdoor temperature Tj	at indoor tem	perature 20 °C	;	Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj				
Tj = -7 °C	Pdh	5.8	kW	Tj = -7 °C	COPd	1.97	-	
Tj = 2 °C	Pdh	3.7	kW	Tj = 2 °C	COPd	3.22	-	
Tj = 7 °C	Pdh	2.5	kW	Tj = 7 °C	COPd	4.21	-	
Tj = 12 <sup>°</sup> C	Pdh	1.3	kW	Tj = 12°C	COPd	4.91	-	
Tj = bivalent temperature	Pdh	5.8	kW	Tj = bivalent temperature	COPd	1.97	-	
Tj = operating limit	Pdh	5.9	kW	Tj = operating limit	COPd	1.62	-	
For air-to-water heat pumps: Tj = -15 $^\circ$ C	Pdh	-	kW	For air-to-water heat pumps: Tj = -15 $^\circ\!$	COPd	-	-	
Bivalent temperature	Tbiv	-7	°C	For air-to-water heat pumps: Operation limit temperature	TOL	-10	°C	
Cycling interval capacity for heating	Pcych	-	kW	Cycling interval efficiency	COPcyc	-	-	
Degradation co-efficient (**)	Cdh	0.9		Heating water operating limit temperature	WTOL	60	°C	
Power consumption in modes other than ad	tive mode			Supplementary heater				
Off mode	Poff	0.009	kW	Rated heat output (**)	Psup	0.7	LAN	
Standby mode	Psb	0.009	kW	Rated heat output ( )	Fsup	0.7	kW	
Thermostat-off mode	Pto	0.006	kW	Type of energy input Electrica		Electrical		
Crankcase heater mode	Pck	0.000	kW					
Other items								
Capacity control		variable		For air-to-water heat pumps: Rated air flow rate, outdoors	-	3050	m³/h	
Sound power level, indoors/outdoors	L <sub>WA</sub>	-/64	dB	For water-or brine-to-water heat pumps: Rated brine or water flow rate, outdoor	-	-	m³/h	
Annual energy consumption	Q <sub>HE</sub>	4203	kWh	heat exchanger				
For heat pump combination heater:								
Declared load profile		-		Water heating energy efficiency	η <sub>wh</sub>	-	%	
Daily electricity consumption	Q <sub>clec</sub>	-	kWh	Daily fuel consumption	Q <sub>fuel</sub>	-	kWł	
Annual electricity consumption	AEC	-	kWh	Annual fuel consumption	AFC	-	GJ	

Model(s):	AW-WHPM07-H91
Air-to-water heat pump:	YES
Water-to-water heat pump:	NO
Brine-to-water heat pump:	NO
Low-temperature heat pump:	NO
Equipped with a supplementary heater:	NO
Heat pump combination heater:	NO
Declared climate condition:	COLDER

Parameters are declared for medium-temperature application.

Item	Symbol	Value	Unit	Item	Symbol	Value	Uni	
Rated heat output (*)	Prated	6.6	kW	Seasonal space heating energy efficiency	ηs	104	%	
Declared capacity for heating for part load a and outdoor temperature Tj	at indoor tem	perature 20 °C	>	Declared coefficient of performance or prim indoor temperature 20 °C and outdoor te			ad at	
Tj = -7 °C	Pdh	4.2	kW	Tj = -7℃	COPd	2.38	-	
<b>Tj = 2</b> <sup>°</sup> ℃	Pdh	2.7	kW	<b>T</b> j = 2 °C	COPd	3.05	-	
Tj = 7 °C	Pdh	1.7	kW	Tj = 7 °C	COPd	4.16	-	
Tj = 12 <sup>°</sup> C	Pdh	0.9	kW	<b>Tj = 12</b> <sup>°</sup> C	COPd	4.28	-	
Tj = bivalent temperature	Pdh	5.4	kW	Tj = bivalent temperature	COPd	1.80	-	
Tj = operating limit	Pdh	4.1	kW	Tj = operating limit	COPd	1.25	-	
For air-to-water heat pumps: Tj = -15 °C	Pdh	5.4	kW	For air-to-water heat pumps: Tj = -15 °C	COPd	1.80	-	
Bivalent temperature	Tbiv	-15	°C	For air-to-water heat pumps: Operation limit temperature	TOL	-18	°C	
Cycling interval capacity for heating	Pcych	-	kW	Cycling interval efficiency	COPcyc	-	•	
Degradation co-efficient (**)	Cdh	0.9		Heating water operating limit temperature	WTOL	44	°C	
Power consumption in modes other than a	tive mode			Supplementary heater		-		
Off mode	Poff	0.009	kW	Rated heat output (**)	D		1.3.6.	
Standby mode	Psb	0.009	kW	Rated heat output ( )	Psup	4.6	kW	
Thermostat-off mode	Pto	0.006	kW	Type of energy input				
Crankcase heater mode	Pck	0.000	kW	Type of energy input -				
Other items								
Capacity control		variable		For air-to-water heat pumps: Rated air flow rate, outdoors	-	3050	m³/h	
Sound power level, indoors/outdoors	L <sub>WA</sub>	-/64	dB	For water-or brine-to-water heat pumps: Rated brine or water flow rate, outdoor	-	-	m³/h	
Annual energy consumption	Q <sub>HE</sub>	6136	kWh	heat exchanger				
For heat pump combination heater:								
Declared load profile		-		Water heating energy efficiency	η <sub>wh</sub>	-	%	
Deciared toad profile	Q <sub>clec</sub>	-	kWh	Daily fuel consumption	Q <sub>fuel</sub>	-	kW	
Daily electricity consumption	Clec							

Model(s):	AW-WHPM07-H91
Air-to-water heat pump:	YES
Water-to-water heat pump:	NO
Brine-to-water heat pump:	NO
Low-temperature heat pump:	NO
Equipped with a supplementary heater:	NO
Heat pump combination heater:	NO
Declared climate condition:	WARMER

Parameters are declared for medium-temperature application.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit	
Rated heat output (*)	Prated	6.6	kW	Seasonal space heating energy efficiency	ηs	154	%	
Declared capacity for heating for part load a and outdoor temperature Tj	at indoor tem	perature 20 °C	;	Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj				
Tj = -7 °C	Pdh	-	kW	Tj = -7 °C	COPd	-	-	
Tj = 2 <sup>°</sup> C	Pdh	6.6	kW	Tj = 2 °C	COPd	2.18	-	
Tj = 7 °C	Pdh	4.3	kW	Tj = 7 °C	COPd	3.34	-	
Tj = 12°C	Pdh	1.9	kW	Tj = 12°C	COPd	4.99	-	
Tj = bivalent temperature	Pdh	4.3	kW	Tj = bivalent temperature	COPd	3.34	-	
Tj = operating limit	Pdh	6.6	kW	Tj = operating limit	COPd	2.18	-	
For air-to-water heat pumps: Tj = $-15^{\circ}$ C	Pdh	-	kW	For air-to-water heat pumps: Tj = -15 $^\circ$ C	COPd	-	-	
Bivalent temperature	Tbiv	7	°C	For air-to-water heat pumps: Operation limit temperature	TOL	2	°C	
Cycling interval capacity for heating	Pcych	-	kW	Cycling interval efficiency	COPcyc	-	-	
Degradation co-efficient (**)	Cdh	0.9		Heating water operating limit temperature	WTOL	60	°C	
Power consumption in modes other than ac	tive mode			Supplementary heater				
Off mode	Poff	0.009	kW	Rated heat output (**)	Psup		1.3.47	
Standby mode	Psb	0.009	kW		Fsup	0.0	kW	
Thermostat-off mode	Pto	0.006	kW	Type of energy input -		_		
Crankcase heater mode	Pck	0.000	kW					
Other items								
Capacity control		variable		For air-to-water heat pumps: Rated air flow rate, outdoors	-	3050	m³/h	
Sound power level, indoors/outdoors	L <sub>WA</sub>	-/64	dB	For water-or brine-to-water heat pumps: Rated brine or water flow rate, outdoor	-	-	m³/h	
Annual energy consumption	Q <sub>HE</sub>	2255	kWh	heat exchanger				
For heat pump combination heater:								
Declared load profile		-		Water heating energy efficiency	η <sub>wh</sub>	-	%	
Daily electricity consumption	Q <sub>clec</sub>	-	kWh	Daily fuel consumption	Q <sub>fuel</sub>	-	kWł	
Annual electricity consumption	AEC	-	kWh	Annual fuel consumption	AFC	-	GJ	
Contact details		idential SAS u centre - Bât	A Les Qu	adrants - 78280 - Guyancourt - France				

Model(s):	AW-WHPM09-H91
Air-to-water heat pump:	YES
Water-to-water heat pump:	NO
Brine-to-water heat pump:	NO
Low-temperature heat pump:	NO
Equipped with a supplementary heater:	NO
Heat pump combination heater:	NO
Declared climate condition:	AVERAGE

Parameters are declared for medium-temperature application.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit	
Rated heat output (*)	Prated	7.4	kW	Seasonal space heating energy efficiency	ηs	126	%	
Declared capacity for heating for part load a and outdoor temperature Tj	at indoor tem	perature 20 °C	;	Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj				
Tj = -7 ℃	Pdh	6.6	kW	<b>Tj = -7</b> ℃	COPd	1.87	-	
<b>Tj = 2</b> <sup>°</sup> C	Pdh	4.3	kW	Tj = 2°C	COPd	3.19	-	
Tj = 7 °C	Pdh	2.8	kW	<b>Tj = 7</b> °C	COPd	4.38	-	
Tj = 12 °C	Pdh	1.3	kW	<b>Tj = 12</b> <sup>°</sup> C	COPd	5.04	-	
Tj = bivalent temperature	Pdh	6.6	kW	Tj = bivalent temperature	COPd	1.87	-	
Tj = operating limit	Pdh	5.5	kW	Tj = operating limit	COPd	1.51	-	
For air-to-water heat pumps: Tj = -15 $^\circ\!\mathrm{C}$	Pdh	-	kW	For air-to-water heat pumps: Tj = -15 $^\circ\!\!\!\!\mathrm{C}$	COPd	-	-	
Bivalent temperature	Tbiv	-7	°C	For air-to-water heat pumps: Operation limit temperature	TOL	-10	°C	
Cycling interval capacity for heating	Pcych	-	kW	Cycling interval efficiency	COPcyc	-	-	
Degradation co-efficient (**)	Cdh	0.9		Heating water operating limit temperature	WTOL	60	°C	
Power consumption in modes other than a	tive mode			Supplementary heater		-		
Off mode	Poff	0.009	kW	Rated heat output (**)	Psup	1.0		
Standby mode	Psb	0.009	kW	Rated heat output ( )	Psup	1.8	kW	
Thermostat-off mode	Pto	0.010	kW	Type of energy input Electrica		Electrical	1	
Crankcase heater mode	Pck	0.000	kW		eigy input Electrical			
Other items								
Capacity control		variable		For air-to-water heat pumps: Rated air flow rate, outdoors	-	3050	m³/h	
Sound power level, indoors/outdoors	L <sub>WA</sub>	-/67	dB	For water-or brine-to-water heat pumps: Rated brine or water flow rate, outdoor	-	-	m³/h	
Annual energy consumption	Q <sub>HE</sub>	4770	kWh	heat exchanger				
For heat pump combination heater:								
Declared load profile		-		Water heating energy efficiency	η <sub>wh</sub>	-	%	
Daily electricity consumption	Q <sub>clec</sub>	-	kWh	Daily fuel consumption	Q <sub>fuel</sub>	-	kWh	
Annual electricity consumption	AEC	-	kWh	Annual fuel consumption	AFC	-	GJ	
Contact details		idential SAS u centre - Bât	A Les Qu	adrants - 78280 - Guyancourt - France				

Model(s):	AW-WHPM09-H91
Air-to-water heat pump:	YES
Water-to-water heat pump:	NO
Brine-to-water heat pump:	NO
Low-temperature heat pump:	NO
Equipped with a supplementary heater:	NO
Heat pump combination heater:	NO
Declared climate condition:	COLDER

Parameters are declared for medium-temperature application.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit	
Rated heat output (*)	Prated	8.2	kW	Seasonal space heating energy efficiency	ηs	109	%	
Declared capacity for heating for part load a and outdoor temperature Tj	at indoor tem	perature 20 °C	;	Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj				
Tj = -7 °C	Pdh	5.4	kW	Tj = -7℃	COPd	2.43	-	
<b>Tj = 2</b> <sup>°</sup> C	Pdh	3.3	kW	Tj = 2 °C	COPd	3.40	-	
<b>Tj = 7</b> °C	Pdh	2.2	kW	<b>Tj = 7</b> ℃	COPd	4.59	-	
Tj = 12 <sup>°</sup> C	Pdh	0.9	kW	Tj = 12 <sup>°</sup> C	COPd	4.28	-	
Tj = bivalent temperature	Pdh	6.1	kW	Tj = bivalent temperature	COPd	1.98	-	
Tj = operating limit	Pdh	4.2	kW	Tj = operating limit	COPd	1.29	-	
For air-to-water heat pumps: Tj = $-15^{\circ}$ C	Pdh	5.5	kW	For air-to-water heat pumps: Tj = -15 $^\circ$ C	COPd	1.76	-	
Bivalent temperature	Tbiv	-12	°C	For air-to-water heat pumps: Operation limit temperature	TOL	-18	°C	
Cycling interval capacity for heating	Pcych	-	kW	Cycling interval efficiency	COPcyc	-	-	
Degradation co-efficient (**)	Cdh	0.9		Heating water operating limit temperature	WTOL	44	°C	
Power consumption in modes other than active mode				Supplementary heater				
Off mode	Poff	0.009	kW		D			
Standby mode	Psb	0.009	kW	Rated heat output (**)	Psup	6.3	kW	
Thermostat-off mode	Pto	0.010	kW	Type of energy input				
Crankcase heater mode	Pck	0.000	kW			_		
Other items								
Capacity control		variable		For air-to-water heat pumps: Rated air flow rate, outdoors	-	3050	m³/h	
Sound power level, indoors/outdoors	L <sub>WA</sub>	-/67	dB	For water-or brine-to-water heat pumps: Rated brine or water flow rate, outdoor	-	-	m³/h	
Annual energy consumption	Q <sub>HE</sub>	7286	kWh	heat exchanger				
For heat pump combination heater:								
Declared load profile		-		Water heating energy efficiency	η <sub>wh</sub>	-	%	
Daily electricity consumption	Q <sub>clec</sub>	-	kWh	Daily fuel consumption	Q <sub>fuel</sub>	-	kWh	
Annual electricity consumption	AEC	-	kWh	Annual fuel consumption	AFC	-	GJ	
Contact details		idential SAS u centre - Bât	A Les Qu	adrants - 78280 - Guyancourt - France				

Technical parameters				
Model(s):	AW-WHPM09-H91			
Air-to-water heat pump:	YES			
Water-to-water heat pump:	NO			
Brine-to-water heat pump:	NO			
Low-temperature heat pump:	NO			
Equipped with a supplementary heater:	NO			
Heat pump combination heater:	NO			
Declared climate condition:	WARMER			

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Parameters are declared for medium-temperature application.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	8.6	kW	Seasonal space heating energy efficiency	ηs	164	%
Declared capacity for heating for part load a and outdoor temperature Tj	at indoor tem	perature 20 °C	;	Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj			
<b>Tj = -7</b> °C	Pdh	-	kW	Tj = -7℃	COPd	-	-
Tj = 2 °C	Pdh	8.6	kW	Tj = 2°C	COPd	2.15	-
Tj = 7 °C	Pdh	5.6	kW	Tj = 7 °C	COPd	3.43	-
<b>Tj = 12</b> <sup>°</sup> C	Pdh	2.6	kW	Tj = 12 <sup>°</sup> C	COPd	5.57	-
Tj = bivalent temperature	Pdh	5.6	kW	Tj = bivalent temperature	COPd	3.43	-
Tj = operating limit	Pdh	8.6	kW	Tj = operating limit	COPd	2.14	-
For air-to-water heat pumps: Tj = -15 $^\circ$ C	Pdh	-	kW	For air-to-water heat pumps: Tj = -15 $^\circ$ C	COPd	-	-
Bivalent temperature	Tbiv	7	°C	For air-to-water heat pumps: Operation limit temperature	TOL	2	°C
Cycling interval capacity for heating	Pcych	-	kW	Cycling interval efficiency	COPcyc	-	-
Degradation co-efficient (**)	Cdh	0.9		Heating water operating limit temperature	WTOL	60	°C
Power consumption in modes other than a	tive mode			Supplementary heater	•		
Off mode	Poff	0.009	kW	Rated heat output (**)	Psup	0.0	
Standby mode	Psb	0.009	kW		Fsup	0.0	kW
Thermostat-off mode	Pto	0.010	kW	Type of energy input		_	
Crankcase heater mode	Pck	0.000	kW				
Other items							
Capacity control		variable		For air-to-water heat pumps: Rated air flow rate, outdoors	-	3050	m³/h
Sound power level, indoors/outdoors	L <sub>WA</sub>	-/67	dB	For water-or brine-to-water heat pumps: Rated brine or water flow rate, outdoor	-	-	m³/h
Annual energy consumption	Q <sub>HE</sub>	2774	kWh	heat exchanger			
For heat pump combination heater:							
Declared load profile		-		Water heating energy efficiency	η <sub>wh</sub>	-	%
Daily electricity consumption	Q <sub>clec</sub>	-	kWh	Daily fuel consumption	Q <sub>fuel</sub>	-	kWh
Annual electricity consumption	AEC	-	kWh	Annual fuel consumption	AFC	-	GJ
Contact details		idential SAS u centre - Bât	A Les Qu	adrants - 78280 - Guyancourt - France			

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AW-WHPM12-H91 YES
VES
123
NO
AVERAGE

Parameters are declared for medium-temperature application.

Item	Symbol	Value	Unit	Item	Symbol	Value	Uni
Rated heat output (*)	Prated	12.8	kW	Seasonal space heating energy efficiency	ηs	126	%
Declared capacity for heating for part load a and outdoor temperature Tj	at indoor tem	perature 20 °C	;	Declared coefficient of performance or prim indoor temperature 20 °C and outdoor te			ad at
Tj = -7 °C	Pdh	11.3	kW	<b>Tj = -7</b> <sup>°</sup> C	COPd	2.05	-
Tj = 2 °C	Pdh	7.3	kW	<b>Tj = 2</b> ℃	COPd	3.14	-
<b>Tj = 7</b> ℃	Pdh	5.0	kW	<b>Tj = 7</b> ℃	COPd	4.25	-
<b>Tj = 12</b> ℃	Pdh	2.4	kW	Tj = 12 <sup>°</sup> C	COPd	4.94	-
Tj = bivalent temperature	Pdh	11.3	kW	Tj = bivalent temperature	COPd	2.05	-
Tj = operating limit	Pdh	11.9	kW	Tj = operating limit	COPd	1.79	-
For air-to-water heat pumps: Tj = -15 $^\circ$ C	Pdh	-	kW	For air-to-water heat pumps: Tj = -15 $^\circ$ C	COPd	-	-
Bivalent temperature	Tbiv	-7	°C	For air-to-water heat pumps: Operation limit temperature	TOL	-10	°C
Cycling interval capacity for heating	Pcych	-	kW	Cycling interval efficiency	COPcyc	-	-
Degradation co-efficient (**)	Cdh	0.9		Heating water operating limit temperature	WTOL	60	°C
Power consumption in modes other than ac	tive mode			Supplementary heater			
Off mode	Poff	0.009	kW	Rated heat output (**)	Psup		
Standby mode	Psb	0.009	kW		Fsup	0.9	kW
Thermostat-off mode	Pto	0.015	kW	Type of energy input Electrical Heating			
Crankcase heater mode	Pck	0.000	kW		Ele	ctrical Heating	9
Other items							
Capacity control		variable		For air-to-water heat pumps: Rated air flow rate, outdoors	-	6150	m <sup>3</sup> /h
Sound power level, indoors/outdoors	L <sub>WA</sub>	-/68	dB	For water-or brine-to-water heat pumps: Rated brine or water flow rate, outdoor	-	-	m <sup>3</sup> /h
Annual energy consumption	Q <sub>HE</sub>	8164	kWh	heat exchanger			
For heat pump combination heater:							
Declared load profile		-		Water heating energy efficiency	η <sub>wh</sub>	-	%
Daily electricity consumption	Q <sub>clec</sub>	-	kWh	Daily fuel consumption	Q <sub>fuel</sub>	-	kW
	AEC		kWh	Annual fuel consumption	AFC		G

Model(s):	AW-WHPM12-H91
Air-to-water heat pump:	YES
Water-to-water heat pump:	NO
Brine-to-water heat pump:	NO
Low-temperature heat pump:	NO
Equipped with a supplementary heater:	NO
Heat pump combination heater:	NO
Declared climate condition:	COLDER

Parameters are declared for medium-temperature application.

	Value	Unit	Item	Symbol	Value	Unit	
Prated	12.4	kW	Seasonal space heating energy efficiency	ηs	96	%	
at indoor temp	perature 20 °C	;				ad at	
Pdh	7.3	kW	Tj = -7 °C	COPd	2.27	-	
Pdh	4.5	kW	<b>Tj = 2</b> ℃	COPd	2.90	-	
Pdh	2.9	kW	Tj = 7 °C	COPd	3.96	-	
Pdh	1.4	kW	Tj = 12 <sup>°</sup> C	COPd	3.22	-	
Pdh	10.1	kW	Tj = bivalent temperature	COPd	1.78	-	
Pdh	7.7	kW	Tj = operating limit	COPd	1.27	-	
Pdh	10.1	kW	For air-to-water heat pumps: Tj = -15 $^\circ\!\!\!\!\!^\circ$	COPd	1.78	-	
Tbiv	-15	°C	For air-to-water heat pumps: Operation limit temperature	TOL	-18	°C	
Pcych	-	kW	Cycling interval efficiency	COPcyc	-	-	
Cdh	0.9		Heating water operating limit temperature	WTOL	44	°C	
tive mode			Supplementary heater		-		
Poff	0.009	kW					
Psb	0.009	kW	Rated neat output (^^)	Psup	6.8	kW	
Pto	0.015	kW	Turne of energy input				
Pck	0.000	kW		Ele	ctrical Heating	g	
	variable		For air-to-water heat pumps: Rated air flow rate, outdoors	-	6150	m³/h	
L <sub>WA</sub>	-/68	dB	For water-or brine-to-water heat pumps: Rated brine or water flow rate, outdoor	-	-	m³/h	
Q <sub>HE</sub>	12299	kWh	heat exchanger				
	-		Water heating energy efficiency	η <sub>wh</sub>	-	%	
Q <sub>clec</sub>	-	kWh	Daily fuel consumption	Q <sub>fuel</sub>	-	kWł	
AEC	-	kWh	Annual fuel consumption	AFC	-	GJ	
	at indoor temp Pdh Pdh Pdh Pdh Pdh Pdh Pdh Pdh	Pdh       7.3         Pdh       7.3         Pdh       4.5         Pdh       2.9         Pdh       1.4         Pdh       1.4         Pdh       10.1         Pdh       10.1         Pdh       10.1         Pdh       0.01         Pcych       -         Cdh       0.9         Cdh       0.9         Cdh       0.09         Psb       0.009         Pck       0.009         Pck       0.009         Psb       0.015         Pck       0.029         Variable       LWA         LWA       -/68         QHE       12299	Pdh       7.3       kW         Pdh       7.3       kW         Pdh       4.5       kW         Pdh       2.9       kW         Pdh       1.4       kW         Pdh       1.4       kW         Pdh       10.1       kW         Pdh       0.1       kW         Cdn       0.9          Cdn       0.9          Stive mode        kW         Poff       0.009       kW         Pto       0.015       kW         Pto       0.000       kW         Pto       0.015       kW         Pto       0.000       kW         Pto       12299       kWh	Active $q$ <t< td=""><td>at indoor temperature 20 °C       Declared coefficient of performance or primary energy raindoor temperature 20 °C and outdoor temperature 70 °C and outdoor temperature 71 °C         Pdh       4.5       KW         Pdh       2.9       KW         Pdh       2.9       KW         Pdh       1.4       KW         Tj = 7 °C       COPd         Tj = 12 °C       COPd         Tj = 12 °C       COPd         Tj = operating limit       COPd         Tj = operating limit       COPd         Tbw       -15       °C         Cdn       0.9       -         Etwe mode       Etwe mode       Cycling interval efficiency       COPcyc         Potf       0.000       KW       Psup       Psup         Pok       0.000       KW       Psup       For air-to-water heat pumps: Rated air flow rate, outdoors       -         LwvA&lt;</td><td>LinkeJJ</td></t<>	at indoor temperature 20 °C       Declared coefficient of performance or primary energy raindoor temperature 20 °C and outdoor temperature 70 °C and outdoor temperature 71 °C         Pdh       4.5       KW         Pdh       2.9       KW         Pdh       2.9       KW         Pdh       1.4       KW         Tj = 7 °C       COPd         Tj = 12 °C       COPd         Tj = 12 °C       COPd         Tj = operating limit       COPd         Tj = operating limit       COPd         Tbw       -15       °C         Cdn       0.9       -         Etwe mode       Etwe mode       Cycling interval efficiency       COPcyc         Potf       0.000       KW       Psup       Psup         Pok       0.000       KW       Psup       For air-to-water heat pumps: Rated air flow rate, outdoors       -         LwvA<	LinkeJJ	

Model(s):	AW-WHPM12-H91
Air-to-water heat pump:	YES
Water-to-water heat pump:	NO
Brine-to-water heat pump:	NO
Low-temperature heat pump:	NO
Equipped with a supplementary heater:	NO
Heat pump combination heater:	NO
Declared climate condition:	WARMER

Parameters are declared for medium-temperature application.

				Item	Symbol	Value	Uni	
Rated heat output (*)	Prated	11.8	kW	Seasonal space heating energy efficiency	ηs	148	%	
Declared capacity for heating for part load a and outdoor temperature Tj	at indoor temp	perature 20 °C	;	Declared coefficient of performance or prim indoor temperature 20 °C and outdoor te			ad at	
Tj = -7 °C	Pdh	-	kW	Tj = -7℃	COPd	-	-	
<b>Tj = 2</b> <sup>™</sup> C	Pdh	11.9	kW	<b>Tj = 2</b> ℃	COPd	2.18	-	
Tj = 7 ℃	Pdh	7.6	kW	Tj = 7 ℃	COPd	3.08	-	
Tj = 12 <sup>°</sup> C	Pdh	3.5	kW	Tj = 12 <sup>°</sup> C	COPd	4.94	-	
Tj = bivalent temperature	Pdh	7.6	kW	Tj = bivalent temperature	COPd	3.08	-	
Tj = operating limit	Pdh	11.9	kW	Tj = operating limit	COPd	2.18	-	
For air-to-water heat pumps: Tj = -15 $^\circ$ C	Pdh	-	kW	For air-to-water heat pumps: Tj = -15 °C	COPd	-	-	
Bivalent temperature	Tbiv	7	°C	For air-to-water heat pumps: Operation limit temperature	TOL	2	°C	
Cycling interval capacity for heating	Pcych	-	kW	Cycling interval efficiency	COPcyc	-	-	
Degradation co-efficient (**)	Cdh	0.9		Heating water operating limit temperature	WTOL	60	°C	
Power consumption in modes other than ac	tive mode			Supplementary heater			_	
Off mode	Poff	0.009	kW	Rated heat output (**)	D	0.0		
Standby mode	Psb	0.009	kW		Psup	0.0	kW	
Thermostat-off mode	Pto	0.015	kW	Type of energy input Electrical Heat		-4		
Crankcase heater mode	Pck 0.000 kW				Elec	ctrical Heating	g	
Other items								
Capacity control		variable		For air-to-water heat pumps: Rated air flow rate, outdoors	-	6150	m³/h	
Sound power level, indoors/outdoors	L <sub>WA</sub>	-/68	dB	For water-or brine-to-water heat pumps: Rated brine or water flow rate, outdoor	-	-	m³/h	
Annual energy consumption	Q <sub>HE</sub>	4207	kWh	heat exchanger				
For heat pump combination heater:								
Declared load profile		-		Water heating energy efficiency	η <sub>wh</sub>	-	%	
Daily electricity consumption	Q <sub>clec</sub>	-	kWh	Daily fuel consumption	Q <sub>fuel</sub>	-	kW	
Annual electricity consumption	AEC	-	kWh	Annual fuel consumption	AFC	-	GJ	

Model(s):	AW-WHPM14-H91
Air-to-water heat pump:	YES
Water-to-water heat pump:	NO
Brine-to-water heat pump:	NO
Low-temperature heat pump:	NO
Equipped with a supplementary heater:	NO
Heat pump combination heater:	NO
Declared climate condition:	AVERAGE

Parameters are declared for medium-temperature application.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit	
Rated heat output (*)	Prated	13.8	kW	Seasonal space heating energy efficiency	ηs	128	%	
Declared capacity for heating for part load a and outdoor temperature Tj	at indoor tem	perature 20 °C	;	Declared coefficient of performance or prin indoor temperature 20 °C and outdoor te			ad at	
Tj = -7 °C	Pdh	12.2	kW	Tj = -7℃	COPd	2.05	-	
Tj = 2°C	Pdh	7.8	kW	Tj = 2°C	COPd	3.18	-	
<b>Tj = 7</b> ℃	Pdh	5.2	kW	<b>Tj = 7</b> °C	COPd	4.29	-	
Tj = 12 <sup>°</sup> C	Pdh	2.6	kW	<b>Tj = 12</b> <sup>°</sup> C	COPd	5.14	-	
Tj = bivalent temperature	Pdh	12.2	kW	Tj = bivalent temperature	COPd	2.05	-	
Tj = operating limit	Pdh	11.7	kW	Tj = operating limit	COPd	1.74	-	
For air-to-water heat pumps: Tj = $-15^{\circ}$ C	Pdh	-	kW	For air-to-water heat pumps: Tj = -15 $^\circ\!\!\!\!\!^\circ$	COPd	-	-	
Bivalent temperature	Tbiv	-7	°C	For air-to-water heat pumps: Operation limit temperature	TOL	-10	°C	
Cycling interval capacity for heating	Pcych	-	kW	Cycling interval efficiency	COPcyc	-	-	
Degradation co-efficient (**)	Cdh	0.9		Heating water operating limit temperature	WTOL	60	°C	
Power consumption in modes other than ad	tive mode			Supplementary heater				
Off mode	Poff	0.009	kW	Rated heat output (**)	D			
Standby mode	Psb	0.009	kW		Psup	2.1	kW	
Thermostat-off mode	Pto	0.026	kW	Type of energy input				
Crankcase heater mode	Pck	0.000	kW		Electrical Heating			
Other items								
Capacity control		variable		For air-to-water heat pumps: Rated air flow rate, outdoors	-	6150	m³/h	
Sound power level, indoors/outdoors	L <sub>WA</sub>	-/71	dB	For water-or brine-to-water heat pumps: Rated brine or water flow rate, outdoor	-	-	m³/h	
Annual energy consumption	Q <sub>HE</sub>	8724	kWh	heat exchanger				
For heat pump combination heater:								
Declared load profile		-		Water heating energy efficiency	η <sub>wh</sub>	-	%	
Daily electricity consumption	Q <sub>clec</sub>	-	kWh	Daily fuel consumption	Q <sub>fuel</sub>	-	kW	
	AEC			Annual fuel consumption	AFC		GJ	

$N_{1} = 1 = 1/2$	
Model(s):	AW-WHPM14-H91
Air-to-water heat pump:	YES
Water-to-water heat pump:	NO
Brine-to-water heat pump:	NO
Low-temperature heat pump:	NO
Equipped with a supplementary heater:	NO
Heat pump combination heater:	NO
Declared climate condition:	COLDER

Parameters are declared for medium-temperature application.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit	
Rated heat output (*)	Prated	14.3	kW	Seasonal space heating energy efficiency	ηs	102	%	
Declared capacity for heating for part load a and outdoor temperature Tj	at indoor tem	perature 20 °C	;	Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj				
Tj = -7 °C	Pdh	8.9	kW	Tj = -7℃	COPd	2.35	-	
Tj = 2 <sup>°</sup> C	Pdh	5.3	kW	Tj = 2°C	COPd	3.16	-	
Tj = 7 °C	Pdh	3.3	kW	Tj = 7 °C	COPd	4.10	-	
Tj = 12 °C	Pdh	1.4	kW	<b>Tj = 12</b> ℃	COPd	3.20	-	
Tj = bivalent temperature	Pdh	11.3	kW	Tj = bivalent temperature	COPd	1.85	-	
Tj = operating limit	Pdh	7.7	kW	Tj = operating limit	COPd	1.26	-	
For air-to-water heat pumps: Tj = -15 $^\circ$ C	Pdh	10.8	kW	For air-to-water heat pumps: Tj = -15 <sup>°</sup> C	COPd	1.77	-	
Bivalent temperature	Tbiv	-14	°C	For air-to-water heat pumps: Operation limit temperature	TOL	-18	°C	
Cycling interval capacity for heating	Pcych	-	kW	Cycling interval efficiency	COPcyc	-	-	
Degradation co-efficient (**)	Cdh	0.9		Heating water operating limit temperature	WTOL	44	°C	
Power consumption in modes other than active mode				Supplementary heater				
Off mode	Poff	0.009	kW	Poted heat output (**)				
Standby mode	Psb	0.009	kW	Rated heat output (**)	Psup	8.7	kW	
Thermostat-off mode	Pto	0.026	kW	Type of energy input Electrical Heating				
Crankcase heater mode	Pck	0.000	kW		Elec	ctrical Heating		
Other items								
Capacity control		variable		For air-to-water heat pumps: Rated air flow rate, outdoors	-	6150	m³/h	
Sound power level, indoors/outdoors	L <sub>WA</sub>	-/71	dB	For water-or brine-to-water heat pumps: Rated brine or water flow rate, outdoor	-	-	m³/h	
Annual energy consumption	Q <sub>HE</sub>	13449	kWh	heat exchanger				
For heat pump combination heater:								
Declared load profile		-		Water heating energy efficiency	η <sub>wh</sub>	-	%	
Daily electricity consumption	Q <sub>clec</sub>	-	kWh	Daily fuel consumption	Q <sub>fuel</sub>	-	kWh	
Annual electricity consumption	AEC	-	kWh	Annual fuel consumption	AFC	-	GJ	
Contact details		idential SAS u centre - Bât	A Les Qu	drants - 78280 - Guyancourt - France				

Model(s):	AW-WHPM14-H91
Air-to-water heat pump:	YES
Water-to-water heat pump:	NO
Brine-to-water heat pump:	NO
Low-temperature heat pump:	NO
Equipped with a supplementary heater:	NO
Heat pump combination heater:	NO
Declared climate condition:	WARMER

Parameters are declared for medium-temperature application.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit	
Rated heat output (*)	Prated	13.9	kW	Seasonal space heating energy efficiency	ηs	154	%	
Declared capacity for heating for part load a and outdoor temperature Tj	at indoor tem	perature 20 °C	;	Declared coefficient of performance or primindoor temperature 20 °C and outdoor te			ad at	
Tj = -7 °C	Pdh	-	kW	Tj = -7 °C	COPd	-	-	
Tj = 2 <sup>°</sup> C	Pdh	13.8	kW	Tj = 2 °C	COPd	2.17	-	
Tj = 7 °C	Pdh	9.0	kW	Tj = 7 °C	COPd	3.18	-	
Tj = 12 C	Pdh	4.2	kW	Tj = 12 <sup>°</sup> C	COPd	5.26	-	
Tj = bivalent temperature	Pdh	9.0	kW	Tj = bivalent temperature	COPd	3.18	-	
Tj = operating limit	Pdh	13.8	kW	Tj = operating limit	COPd	2.17	-	
For air-to-water heat pumps: Tj = $-15^{\circ}$ C	Pdh	-	kW	For air-to-water heat pumps: Tj = -15 $^\circ$ C	COPd	-	-	
Bivalent temperature	Tbiv	7	°C	For air-to-water heat pumps: Operation limit temperature	TOL	2	°C	
Cycling interval capacity for heating	Pcych	-	kW	Cycling interval efficiency	COPcyc	-	-	
Degradation co-efficient (**)	Cdh	0.9		Heating water operating limit temperature	WTOL	60	°C	
Power consumption in modes other than ac	tive mode			Supplementary heater				
Off mode	Poff	0.009	kW	Rated heat output (**)	D			
Standby mode	Psb	0.009	kW	Rated heat output ( )	Psup	0.1	kW	
Thermostat-off mode	Pto	0.026	kW	Type of energy input	Electrical Heating			
Crankcase heater mode	Pck 0.000 kW				Ele	cirical Heating	9	
Other items								
Capacity control		variable		For air-to-water heat pumps: Rated air flow rate, outdoors	-	6150	m³/h	
Sound power level, indoors/outdoors	L <sub>WA</sub>	-/71	dB	For water-or brine-to-water heat pumps: Rated brine or water flow rate, outdoor	-	-	m³/h	
Annual energy consumption	Q <sub>HE</sub>	4746	kWh	heat exchanger				
For heat pump combination heater:								
Declared load profile		-		Water heating energy efficiency	η <sub>wh</sub>	-	%	
Daily electricity consumption	Q <sub>clec</sub>	-	kWh	Daily fuel consumption	Q <sub>fuel</sub>	-	kWł	
	AEC		kWh	Annual fuel consumption	AFC		GJ	

Model(s):	AW-WHPM16-H91
Air-to-water heat pump:	YES
Water-to-water heat pump:	NO
Brine-to-water heat pump:	NO
Low-temperature heat pump:	NO
Equipped with a supplementary heater:	NO
Heat pump combination heater:	NO
Declared climate condition:	AVERAGE

Parameters are declared for medium-temperature application.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit	
Rated heat output (*)	Prated	14.6	kW	Seasonal space heating energy efficiency	ηs	128	%	
Declared capacity for heating for part load a and outdoor temperature Tj	at indoor tem	perature 20 °C	;	Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj				
Tj = -7℃	Pdh	12.9	kW	Tj = -7℃	COPd	2.04	-	
Tj = 2 °C	Pdh	8.3	kW	Tj = 2°C	COPd	3.21	-	
<b>Tj = 7</b> <sup>°</sup> C	Pdh	5.5	kW	<b>Tj = 7</b> °C	COPd	4.32	-	
<b>Tj = 12</b> ℃	Pdh	2.6	kW	<b>Tj = 12</b> °C	COPd	5.12	-	
Tj = bivalent temperature	Pdh	12.9	kW	Tj = bivalent temperature	COPd	2.04	-	
Tj = operating limit	Pdh	11.2	kW	Tj = operating limit	COPd	1.65	-	
For air-to-water heat pumps: Tj = -15 $^\circ$ C	Pdh	-	kW	For air-to-water heat pumps: Tj = -15 $^{\circ}$ C	COPd	-	-	
Bivalent temperature	Tbiv	-7	°C	For air-to-water heat pumps: Operation limit temperature	TOL	-10	°C	
Cycling interval capacity for heating	Pcych	-	kW	Cycling interval efficiency	COPcyc	-	· ·	
Degradation co-efficient (**)	Cdh	0.9		Heating water operating limit temperature	WTOL	60	°C	
Power consumption in modes other than active mode				Supplementary heater				
Off mode	Poff	0.009	kW					
Standby mode	Psb	0.009	kW	Rated heat output (**)	Psup	3.4	kW	
Thermostat-off mode	Pto	0.041	kW	Type of energy input				
Crankcase heater mode	Pck	0.000	kW	Type of energy input Electrical He			)	
Other items								
Capacity control		variable		For air-to-water heat pumps: Rated air flow rate, outdoors	-	6150	m³/h	
Sound power level, indoors/outdoors	Lwa	-/71	dB	For water-or brine-to-water heat pumps: Rated brine or water flow rate, outdoor	-	-	m³/h	
Annual energy consumption	Q <sub>HE</sub>	9216	kWh	heat exchanger				
For heat pump combination heater:								
Declared load profile		-		Water heating energy efficiency	η <sub>wh</sub>	-	%	
Daily electricity consumption	Q <sub>clec</sub>	-	kWh	Daily fuel consumption	Q <sub>fuel</sub>	-	kWh	
Annual electricity consumption	AEC	-	kWh	Annual fuel consumption	AFC	-	GJ	
Contact details		idential SAS u centre - Bât	A Les Qu	adrants - 78280 - Guyancourt - France				

Model(s):	AW-WHPM16-H91
Air-to-water heat pump:	YES
Water-to-water heat pump:	NO
Brine-to-water heat pump:	NO
Low-temperature heat pump:	NO
Equipped with a supplementary heater:	NO
Heat pump combination heater:	NO
Declared climate condition:	COLDER

Parameters are declared for medium-temperature application.

		Value	Unit	Item	Symbol	Value	Unit	
Rated heat output (*)	Prated	15.2	kW	Seasonal space heating energy efficiency	ηs	106	%	
Declared capacity for heating for part load a and outdoor temperature Tj	at indoor temp	perature 20 °C	;	Declared coefficient of performance or prim indoor temperature 20 °C and outdoor tem	ary energy ra nperature Tj	itio for part loa	ad at	
Tj = -7 °C	Pdh	9.6	kW	Tj = -7℃	COPd	2.38	-	
Tj = 2 ℃	Pdh	5.6	kW	<b>Tj = 2</b> ℃	COPd	3.31	-	
Tj = 7 °C	Pdh	4.0	kW	Tj = 7 °C	COPd	4.47	-	
Tj = 12 <sup>°</sup> C	Pdh	1.9	kW	Tj = 12 <sup>°</sup> C	COPd	4.05	-	
Tj = bivalent temperature	Pdh	11.6	kW	Tj = bivalent temperature	COPd	1.88	-	
Tj = operating limit	Pdh	6.7	kW	Tj = operating limit	COPd	1.10	-	
For air-to-water heat pumps: Tj = -15 $^\circ$ C	Pdh	10.7	kW	For air-to-water heat pumps: Tj = -15 °C	COPd	1.76	-	
Bivalent temperature	Tbiv	-13	°C	For air-to-water heat pumps: Operation limit temperature	TOL	-18	°C	
Cycling interval capacity for heating	Pcych	-	kW	Cycling interval efficiency	COPcyc	-	-	
Degradation co-efficient (**)	Cdh	0.9		Heating water operating limit temperature	WTOL	44	°C	
Power consumption in modes other than ac	tive mode			Supplementary heater			••	
Off mode	Poff	0.009	kW					
Standby mode	Psb	0.009	kW	Rated heat output (**)	Psup	9.6	kW	
Thermostat-off mode	Pto	0.041	kW	Type of energy input	Electrical Heating			
Crankcase heater mode	Pck	0.000	kW					
Other items								
Capacity control		variable		For air-to-water heat pumps: Rated air flow rate, outdoors	-	6150	m³/h	
Sound power level, indoors/outdoors	L <sub>WA</sub>	-/71	dB	For water-or brine-to-water heat pumps: Rated brine or water flow rate, outdoor	-	-	m³/h	
Annual energy consumption	Q <sub>HE</sub>	13768	kWh	heat exchanger				
For heat pump combination heater:								
Declared load profile		-		Water heating energy efficiency	η <sub>wh</sub>	-	%	
Daily electricity consumption	Q <sub>clec</sub>	-	kWh	Daily fuel consumption	Q <sub>fuel</sub>	-	kWh	
Annual electricity consumption	AEC	-	kWh	Annual fuel consumption	AFC	-	GJ	

Model(s):	AW-WHPM16-H91
Air-to-water heat pump:	YES
Water-to-water heat pump:	NO
Brine-to-water heat pump:	NO
Low-temperature heat pump:	NO
Equipped with a supplementary heater:	NO
Heat pump combination heater:	NO
Declared climate condition:	WARMER

Parameters are declared for medium-temperature application.

	Symbol	Value	Unit	Item	Symbol	Value	Unit		
Rated heat output (*)	Prated	15.7	kW	Seasonal space heating energy efficiency	ηs	154	%		
Declared capacity for heating for part load a and outdoor temperature Tj	t indoor tem	perature 20 °C	;	Declared coefficient of performance or prin indoor temperature 20 °C and outdoor te			ad at		
Tj = -7 °C	Pdh	-	kW	Tj = -7 °C	COPd	-	-		
Tj = 2 °C	Pdh	14.1	kW	Tj = 2 °C	COPd	2.14	-		
Tj = 7 °C	Pdh	10.1	kW	Tj = 7 °C	COPd	3.22	-		
Tj = 12 <sup>°</sup> C	Pdh	4.8	kW	<b>Tj = 12</b> <sup>°</sup> C	COPd	5.46	-		
Tj = bivalent temperature	Pdh	10.1	kW	Tj = bivalent temperature	COPd	3.22	-		
Tj = operating limit	Pdh	14.1	kW	Tj = operating limit	COPd	2.14	-		
For air-to-water heat pumps: Tj = -15 $^\circ$ C	Pdh	-	kW	For air-to-water heat pumps: Tj = -15 $^\circ$ C	COPd	-	-		
Bivalent temperature	Tbiv	7	°C	For air-to-water heat pumps: Operation limit temperature	TOL	2	°C		
Cycling interval capacity for heating	Pcych	-	kW	Cycling interval efficiency	COPcyc	-	-		
Degradation co-efficient (**)	Cdh	0.9		Heating water operating limit temperature	WTOL	60	°C		
Power consumption in modes other than act	tive mode			Supplementary heater					
Off mode	Poff	0.009	kW	Rated heat output (**)			1.3.47		
Standby mode	Psb	0.009	kW	Rated neat output (***)	Psup	1.6	kW		
Thermostat-off mode	Pto	0.041	kW	Type of energy input		Electrical Lipsting			
Crankcase heater mode	Pck	0.000	kW		Ele	ctrical Heating	g		
Other items									
Capacity control		variable		For air-to-water heat pumps: Rated air flow rate, outdoors	-	6150	m³/h		
Sound power level, indoors/outdoors	$L_{WA}$	-/71	dB	For water-or brine-to-water heat pumps: Rated brine or water flow rate, outdoor	-	-	m³/h		
Annual energy consumption	$Q_{HE}$	5367	kWh	heat exchanger					
For heat pump combination heater:									
Declared load profile		-		Water heating energy efficiency	η <sub>wh</sub>	-	%		
Daily electricity consumption	Q <sub>clec</sub>	-	kWh	Daily fuel consumption	Q <sub>fuel</sub>	-	kWł		
	AEC		kWh	Annual fuel consumption	AFC		GJ		

Model(s):	AW-WHPM12-H93
Air-to-water heat pump:	YES
Water-to-water heat pump:	NO
Brine-to-water heat pump:	NO
Low-temperature heat pump:	NO
Equipped with a supplementary heater:	NO
Heat pump combination heater:	NO
Declared climate condition:	AVERAGE

Parameters are declared for medium-temperature application.

Pdh Pdh Pdh Pdh	12.8 perature 20 °C 11.3 7.3	kW ; kW kW	Seasonal space heating energy efficiency Declared coefficient of performance or prim indoor temperature 20 °C and outdoor te Tj = -7 °C			% ad at	
Pdh Pdh Pdh Pdh	11.3 7.3	kW	indoor temperature 20 °C and outdoor te	mperature Tj		ad at	
Pdh Pdh Pdh	7.3		<b>Tj = -7</b> °C	COPd			
Pdh Pdh		k\//			2.05	-	
Pdh		KVV	Tj = 2 ℃	COPd	3.14	-	
	5.0	kW	Tj = 7 °C	COPd	4.25	-	
	2.4	kW	Tj = 12°C	COPd	4.94	-	
Pdh	11.3	kW	Tj = bivalent temperature	COPd	2.05	-	
Pdh	11.9	kW	Tj = operating limit	COPd	1.79	-	
Pdh	-	kW	For air-to-water heat pumps: Tj = -15 °C	COPd	-	-	
Tbiv	-7	°C	For air-to-water heat pumps: Operation limit temperature	TOL	-10	°C	
Pcych	-	kW	Cycling interval efficiency	COPcyc	-	-	
Cdh	0.9		Heating water operating limit temperature	WTOL	60	°C	
ve mode			Supplementary heater				
Poff	0.009	kW	Rated heat output (**)			<b>—</b>	
Psb	0.009	kW	Rated heat output ("")	Psup	0.9	kW	
Pto	0.015	kW	Type of energy input	Electrical Heating			
Pck	0.000	kW		Elec	ctrical Heating		
	variable		For air-to-water heat pumps: Rated air flow rate, outdoors	-	6150	m³/h	
L <sub>WA</sub>	-/68	dB	For water-or brine-to-water heat pumps: Rated brine or water flow rate, outdoor	-	-	m³/h	
Q <sub>HE</sub>	8164	kWh	heat exchanger				
	-		Water heating energy efficiency	η <sub>wh</sub>	-	%	
Q <sub>clec</sub>	-	kWh	Daily fuel consumption	Q <sub>fuel</sub>	-	kWł	
AEC	-	kWh	Annual fuel consumption	AFC	-	GJ	
	Tbiv Pcych Cdh Poff Psb Pto Pck Cdh Qck Qck Qck Qck Qck Qck Qck Qck Qck Qck	Image: Constraint of the sector of	Image: Constraint of the sector of	Tbiv       -7       °C         Pcych       -       KW         Cdh       0.9       -         Vermode       Cycling interval efficiency         Poff       0.009       KW         Psb       0.009       KW         Psb       0.009       KW         Psb       0.009       KW         Psb       0.000       KW         Psb       0.000       KW         Psc       0.000       KW         Psb       0.000       KW         Psc       0.000       KW         For air-to-water heat pumps: Rated air flow rate, outdoors       For water-or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger         -       Water heating energy efficiency         Q <sub>HE</sub> 8164       KWh         AEC       KWh       Annual fuel consumption	Tbiv       -7       °C         Pcych       -       kW         Cdh       0.9          Vermode       Cycling interval efficiency       COPcyce         Porff       0.009       kW         Psb       0.009       kW         Psb       0.015       kW         Por       0.015       kW         Por       0.015       kW         Por       0.015       kW         Por       0.000       kW         Prox       0.000       kW         Por       0.015       kW         Por       0.000       kW         Por       0.015       kW         Por       0.000       kW         Por       0.000       kW         Por       0.000       kW         Por       0.000       kW         For air-to-water heat pumps: Rated air flow rate, outdoors       -         For water-or brine-to-water heat pumps: Rated brine or water flow rate, outdoor       -         QHE       8164       kWh         AEC       -       kWh	Tbiv       -7       °C       For air-to-water heat pumps: Operation limit temperature       TOL       -10         Pcych       -       kW       Cycling interval efficiency       COPcyc       -         Cdh       0.9       -       Heating water operating limit temperature       WTOL       60         Vermode       Supplementary heater       Rated heat output (**)       Psup       0.9       -         Point       0.009       kW       Psup       0.9       -       -       60         Point       0.0015       kW       Psup       0.9       -       -       -         Point       0.0015       kW       Psup       0.9       -       -       -         Variable       For air-to-water heat pumps: Rated air flow rate, outdoors       -       6150       -       -         LwA       -/68       dB       For water-or brine-to-water heat pumps: Rated brine or water flow rate, outdoors       -       -       -         QHE       8164       kWh       Where heating energy efficiency       Nwh       -       -         Qelec       -       kWh       Annual fuel consumption       AFC       -	

Model(s):	AW-WHPM12-H93
Air-to-water heat pump:	YES
Water-to-water heat pump:	NO
Brine-to-water heat pump:	NO
Low-temperature heat pump:	NO
Equipped with a supplementary heater:	NO
Heat pump combination heater:	NO
Declared climate condition:	COLDER

Parameters are declared for medium-temperature application.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	12.4	kW	Seasonal space heating energy efficiency	ηs	96	%
Declared capacity for heating for part load a and outdoor temperature Tj	at indoor tem	perature 20 °C	;	Declared coefficient of performance or prim indoor temperature 20 °C and outdoor te			ad at
Tj = -7 °C	Pdh	7.3	kW	<b>Tj = -7</b> °C	COPd	2.27	-
Tj = 2 <sup>°</sup> C	Pdh	4.5	kW	<b>Tj = 2</b> °C	COPd	2.90	-
<b>Tj = 7</b> ℃	Pdh	2.9	kW	Tj = 7 ℃	COPd	3.96	-
Tj = 12°C	Pdh	1.4	kW	Tj = 12°C	COPd	3.22	-
Tj = bivalent temperature	Pdh	10.1	kW	Tj = bivalent temperature	COPd	1.78	-
Tj = operating limit	Pdh	7.7	kW	Tj = operating limit	COPd	1.27	-
For air-to-water heat pumps: Tj = -15 $^\circ$ C	Pdh	10.1	kW	For air-to-water heat pumps: Tj = -15 $^\circ$ C	COPd	1.78	-
Bivalent temperature	Tbiv	-15	°C	For air-to-water heat pumps: Operation limit temperature	TOL	-18	°C
Cycling interval capacity for heating	Pcych	-	kW	Cycling interval efficiency	COPcyc	-	-
Degradation co-efficient (**)	Cdh	0.9		Heating water operating limit temperature	WTOL	44	°C
Power consumption in modes other than ac	ctive mode			Supplementary heater			
Off mode	Poff	0.009	kW	Rated heat output (**)	Psup	6.8	kW
Standby mode	Psb	0.009	kW		r sup	0.8	ĸvv
Thermostat-off mode	Pto	0.015 kW		Type of energy input	Electrical Heating		
Crankcase heater mode	Pck	0.000	kW	.,,,	Elec		
Other items							
Capacity control		variable		For air-to-water heat pumps: Rated air flow rate, outdoors	-	6150	m³/h
Sound power level, indoors/outdoors	L <sub>WA</sub>	-/68	dB	For water-or brine-to-water heat pumps: Rated brine or water flow rate, outdoor	-	-	m³/h
Annual energy consumption	Q <sub>HE</sub>	12299	kWh	heat exchanger			
For heat pump combination heater:							
Declared load profile		-		Water heating energy efficiency	η <sub>wh</sub>	-	%
Daily electricity consumption	Q <sub>clec</sub>	-	kWh	Daily fuel consumption	Q <sub>fuel</sub>	-	kWł
Annual electricity consumption	AEC	-	kWh	Annual fuel consumption	AFC	-	GJ
Annual electricity consumption Contact details	Airwell Res	idential SAS u centre - Bât		adrants - 78280 - Guyancourt - France		-	

3 avenue du centre - Bât A Les Quadrants - 78280 - Guyancourt - France

Model(s):	AW-WHPM12-H93
Air-to-water heat pump:	YES
Water-to-water heat pump:	NO
Brine-to-water heat pump:	NO
Low-temperature heat pump:	NO
Equipped with a supplementary heater:	NO
Heat pump combination heater:	NO
Declared climate condition:	WARMER

Parameters are declared for medium-temperature application.

Prated	11.8	kW	Seasonal space heating energy efficiency	ηs	148	%	
at indoor tem	perature 20 °C	;				ad at	
Pdh	-	kW	<b>Tj = -7</b> °C	COPd	-	-	
Pdh	11.9	kW	Tj = 2 °C	COPd	2.18	-	
Pdh	7.6	kW	Tj = 7 °C	COPd	3.08	-	
Pdh	3.5	kW	Tj = 12 <sup>°</sup> C	COPd	4.94	-	
Pdh	7.6	kW	Tj = bivalent temperature	COPd	3.08	-	
Pdh	11.9	kW	Tj = operating limit	COPd	2.18	-	
Pdh	-	kW	For air-to-water heat pumps: Tj = -15 °C	COPd	-	-	
Tbiv	7	°C	For air-to-water heat pumps: Operation limit temperature	TOL	2	°C	
Pcych	-	kW	Cycling interval efficiency	COPcyc	-	-	
Cdh	0.9		Heating water operating limit temperature	WTOL	60	°C	
tive mode			Supplementary heater				
Poff	0.009	kW					
Psb	0.009	kW	Rated heat output (***)	Psup	0.0	kW	
Pto	0.015	kW	Type of energy input			cal Heating	
Pck	0.000	kW		Ele	ctrical Heating	g	
	variable		For air-to-water heat pumps: Rated air flow rate, outdoors	-	6150	m³/h	
L <sub>WA</sub>	-/68	dB	For water-or brine-to-water heat pumps: Rated brine or water flow rate, outdoor	-	-	m³/h	
Q <sub>HE</sub>	4207	kWh	heat exchanger				
	-		Water heating energy efficiency	η <sub>wh</sub>	-	%	
Q <sub>clec</sub>	-	kWh	Daily fuel consumption	Q <sub>fuel</sub>	-	kW	
AEC	-	kWh	Annual fuel consumption	AFC	-	GJ	
	Pdh           Pcych           Cdh           Poff           Psb           Pto           Pck           Cup           LwA           QHE           QClec	Pdh         -           Pdh         11.9           Pdh         3.5           Pdh         3.5           Pdh         7.6           Pdh         7.6           Pdh         7.6           Pdh         7.6           Pdh         11.9           Pdh         -           Tbiv         7           Pcych         -           Cdh         0.9           tive mode         0.009           Psb         0.009           Psb         0.015           Pck         0.001           Variable         -           LWA         -/68           QHE         4207	Pdh         11.9         KW           Pdh         7.6         KW           Pdh         3.5         KW           Pdh         7.6         KW           Pdh         7.6         KW           Pdh         11.9         KW           Pdh         11.9         KW           Pdh         11.9         KW           Pdh         -         KW           Pdh         -         KW           Pdh         -         KW           Cdh         0.9            Stive mode         -         KW           Poff         0.009         KW           Psb         0.009         KW           Pck         0.000         KW           Pck         0.000         KW           LWA         -/68         dB           QHE         4207         KWh	Pdh-kWPdh11.9kWPdh11.9kWPdh7.6KWPdh3.5KWPdh3.5KWPdh7.6KWPdh7.6KWPdh11.9KWPdh11.9KWPdh-KWPdh-KWPdh-KWPdh-KWPoych-KWCoh0.9-Heating water operating limit temperaturePort0.009NWPok0.0015Pok0.000VariableFor air-to-water heat pumps: Rated heat output (**)Type of energy inputCumple-VariableFor air-to-water heat pumps: Rated air flow rate, outdoorsLwA-/68dBQHE4207kWhVale-Vale-Vale-LwA-/68dBQeec-KWhDaily fuel consumption	Pdh-KWPdh11.9KWPdh11.9KWPdh7.6KWPdh7.6KWPdh7.6KWPdh7.6KWPdh7.6KWPdh7.6KWPdh7.6KWPdh7.6KWPdh7.6KWPdh-KWPdh-KWPdh-KWPdh-KWPoych-KWPoych-KWPorf0.009KWPot0.015KWPok0.000KWPo	Pdh.kwPdh11.9kwPdh11.9kwPdh7.6kwPdh3.5kwPdh3.5kwPdh7.6kwPdh7.6kwPdh7.6kwPdh7.6kwPdh11.9kwPdh7.6kwTbw7°CPoych-kWFor air-to-water heat pumps: Operation limit temperatureCOPdCoh0.9Heating water operating limitCOPoyceCoh0.09kwPsbPoych-Port0.009kwPsbPox0.000Pox0.000kwFor air-to-water heat pumps: Operation limit temperatureWater operating limit temperatureCOPoyceCoh0.9Pox0.000KwPoxPox0.000KwFor air-to-water heat pumps: Rated air flow rate, outdoorsPox0.000KwFor air-to-water heat pumps: 	

Model(s):	AW-WHPM14-H93
Air-to-water heat pump:	YES
Water-to-water heat pump:	NO
Brine-to-water heat pump:	NO
Low-temperature heat pump:	NO
Equipped with a supplementary heater:	NO
Heat pump combination heater:	NO
Declared climate condition:	AVERAGE

Parameters are declared for medium-temperature application.

13.8       emperature 20 °       12.2       7.8       5.2       2.6       12.2       11.7       -       -7       0.9       0.009       0.009	kW           kW	Seasonal space heating energy efficiencyDeclared coefficient of performance or primindoor temperature 20 °C and outdoor te $Tj = -7 C$ $Tj = -7 C$ $Tj = 2 C$ $Tj = 7 C$ $Tj = 12 C$ $Tj = operating limit$ For air-to-water heat pumps: $Tj = -15 C$ For air-to-water heat pumps: Operation limit temperatureCycling interval efficiencyHeating water operating limit temperatureSupplementary heaterRated heat output (**)	ηs       hary energy ray       mperature T       COPd       COPcyc       WToL       Psup	128 atio for part loa 2.05 3.18 4.29 5.14 2.05 1.74 - - -10 - - 60 2.1	%           -	
12.2         7.8         5.2         2.6         12.2         11.7         -         -7         0.9         0.009         0.009	kW	indoor temperature 20 °C and outdoor te Tj = -7 °C Tj = 2 °C Tj = 7 °C Tj = 12 °C Tj = bivalent temperature Tj = operating limit For air-to-water heat pumps: Tj = -15 °C For air-to-water heat pumps: Operation limit temperature Cycling interval efficiency Heating water operating limit temperature Supplementary heater	TPerature T COPd COPd COPd COPd COPd COPd COPd COPd	2.05 3.18 4.29 5.14 2.05 1.74 - -10 - 60	- - - - - - - - - - - - - - - - C -	
7.8       7.8       5.2       2.6       12.2       11.7       -       -7       -       0.9       0.009       0.009	kW	Tj = 2°C         Tj = 7°C         Tj = 12°C         Tj = bivalent temperature         Tj = operating limit         For air-to-water heat pumps: Tj = -15°C         For air-to-water heat pumps: Operation limit temperature         Cycling interval efficiency         Heating water operating limit temperature         Supplementary heater	COPd COPd COPd COPd COPd COPd COPd TOL COPcyc WTOL	3.18 4.29 5.14 2.05 1.74 - -10 - 60	- - -	
5.2 2.6 12.2 11.7 - - 0.9 0.009 0.009	kW	Tj = 7°C Tj = 12°C Tj = bivalent temperature Tj = operating limit For air-to-water heat pumps: Tj = -15°C For air-to-water heat pumps: Operation limit temperature Cycling interval efficiency Heating water operating limit temperature Supplementary heater	COPd COPd COPd COPd COPd COPd TOL COPcyc WTOL	4.29 5.14 2.05 1.74 - -10 - 60	- - -	
2.6 12.2 11.7 - -7 0.9 0.009 0.009	kW	Tj = 12℃         Tj = bivalent temperature         Tj = operating limit         For air-to-water heat pumps: Tj = -15℃         For air-to-water heat pumps:         Operation limit temperature         Cycling interval efficiency         Heating water operating limit temperature         Supplementary heater	COPd COPd COPd COPd TOL COPcyc WTOL	5.14 2.05 1.74 - -10 - 60	- - -	
12.2 11.7 - -7 0.9 0.009 0.009	kW           kW           kW           kW           kW           kW           kW           kW           kW	Tj = bivalent temperature         Tj = operating limit         For air-to-water heat pumps: Tj = -15°C         For air-to-water heat pumps: Operation limit temperature         Cycling interval efficiency         Heating water operating limit temperature         Supplementary heater	COPd COPd COPd TOL COPcyc WTOL	2.05 1.74 - -10 - 60	- - -	
<ul> <li>11.7</li> <li>-</li> <li>-7</li> <li>-7</li> <li>0.9</li> <li>0.009</li> <li>0.009</li> </ul>	kW kW °C kW  kW	Tj = operating limit         For air-to-water heat pumps: Tj = -15°C         For air-to-water heat pumps:         Operation limit temperature         Cycling interval efficiency         Heating water operating limit temperature         Supplementary heater	COPd COPd TOL COPcyc WTOL	1.74 - -10 - 60	- - -	
	kW °C kW 	For air-to-water heat pumps: Tj = -15°C For air-to-water heat pumps: Operation limit temperature Cycling interval efficiency Heating water operating limit temperature Supplementary heater	COPd TOL COPcyc WTOL		- - -	
0.009 0.009	<ul> <li>°C</li> <li>kW</li> <li></li> <li>kW</li> </ul>	For air-to-water heat pumps: Operation limit temperature Cycling interval efficiency Heating water operating limit temperature Supplementary heater	TOL COP <sub>cyc</sub> WTOL	-10 - 60	- - -	
0.009 0.009	kW  kW	Operation limit temperature Cycling interval efficiency Heating water operating limit temperature Supplementary heater	COP <sub>cyc</sub> WTOL	- 60	- - -	
0.009	 kW	Heating water operating limit temperature Supplementary heater	WTOL			
0.009	kW	Supplementary heater				
0.009			Psup	21	k₩	
0.009		Rated heat output (**)	Psup	21	k₩/	
	kW	Rated heat output ( )	Psup	21	<b>k</b> ///	
		Rated heat output ( )	r sup	2.1	KVV	
0.026	kW	Type of energy input Electrical Heat			ing	
0.000	kW		Ele	ctrical Heatino	]	
variable		For air-to-water heat pumps: Rated air flow rate, outdoors	-	6150	m³/h	
-/71	dB	For water-or brine-to-water heat pumps: Rated brine or water flow rate, outdoor	-	-	m <sup>3</sup> /h	
8724	kWh	heat exchanger				
-		Water heating energy efficiency	η <sub>wh</sub>	-	%	
-	kWh	Daily fuel consumption	Q <sub>fuel</sub>	-	kWh	
-	kWh	Annual fuel consumption	AFC	-	GJ	
	-/71 8724 - - - -	-/71 dB 8724 kWh 	Variable     Rated air flow rate, outdoors       -/71     dB       8724     kWh       -     -       -     Water heating energy efficiency       -     KWh       -     Daily fuel consumption       -     KWh	Variable     Rated air flow rate, outdoors     -       -/71     dB     For water-or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger     -       8724     kWh     Water heating energy efficiency     nwh       -     Water heating energy efficiency     nwh       -     baily fuel consumption     Q <sub>fuel</sub> Annual fuel consumption     AFC	Variable     Rated air flow rate, outdoors     -     6150       -/71     dB     For water-or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger     -     -       8724     kWh     -     -     -       -     Water heating energy efficiency $\eta_{wh}$ -       -     Daily fuel consumption $Q_{fuel}$ -	

Model(s):	AW-WHPM14-H93
Air-to-water heat pump:	YES
Water-to-water heat pump:	NO
Brine-to-water heat pump:	NO
Low-temperature heat pump:	NO
Equipped with a supplementary heater:	NO
Heat pump combination heater:	NO
Declared climate condition:	COLDER
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Parameters are declared for medium-temperature application.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	14.3	kW	Seasonal space heating energy efficiency	ηs	102	%
Declared capacity for heating for part load a and outdoor temperature Tj	at indoor tem	perature 20 °C	;	Declared coefficient of performance or primindoor temperature 20 °C and outdoor te			ad at
Tj = -7 °C	Pdh	8.9	kW	Tj = -7℃	COPd	2.35	-
Tj = 2 °C	Pdh	5.3	kW	Tj = 2 °C	COPd	3.16	-
Tj = 7 °C	Pdh	3.3	kW	Tj = 7 °C	COPd	4.10	-
Tj = 12 <sup>°</sup> C	Pdh	1.4	kW	Tj = 12°C	COPd	3.20	-
Tj = bivalent temperature	Pdh	11.3	kW	Tj = bivalent temperature	COPd	1.85	-
Tj = operating limit	Pdh	7.7	kW	Tj = operating limit	COPd	1.26	-
For air-to-water heat pumps: Tj = -15 $^{\circ}$ C	Pdh	10.8	kW	For air-to-water heat pumps: Tj = -15 °C	COPd	1.77	-
Bivalent temperature	Tbiv	-14	°C	For air-to-water heat pumps: Operation limit temperature	TOL	-18	°C
Cycling interval capacity for heating	Pcych	-	kW	Cycling interval efficiency	COPcyc	-	-
Degradation co-efficient (**)	Cdh	0.9		Heating water operating limit temperature	WTOL	44	°C
Power consumption in modes other than a	tive mode			Supplementary heater	•		
Off mode	Poff	0.009	kW	Rated heat output (**)	Dam	8.7	kW
Standby mode	Psb	0.009	kW		Psup		
Thermostat-off mode	Pto	0.026	kW	Type of energy input			
Crankcase heater mode	Pck 0.000 KW				ctrical Heating	aung	
Other items							
Capacity control		variable		For air-to-water heat pumps: Rated air flow rate, outdoors	-	6150	m³/h
Sound power level, indoors/outdoors	L <sub>WA</sub>	-/71	dB	For water-or brine-to-water heat pumps: Rated brine or water flow rate, outdoor	-	-	m³/h
Annual energy consumption	Q <sub>HE</sub>	13449	kWh	heat exchanger			
For heat pump combination heater:							
Declared load profile		-		Water heating energy efficiency	η <sub>wh</sub>	-	%
Daily electricity consumption	Q <sub>clec</sub>	-	kWh	Daily fuel consumption	Q <sub>fuel</sub>	-	kWł
	AEC		kWh	Annual fuel consumption	AFC		GJ

Model(s):	AW-WHPM14-H93
Air-to-water heat pump:	YES
Water-to-water heat pump:	NO
Brine-to-water heat pump:	NO
Low-temperature heat pump:	NO
Equipped with a supplementary heater:	NO
Heat pump combination heater:	NO
Declared climate condition:	WARMER

Parameters are declared for medium-temperature application.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit	
Rated heat output (*)	Prated	13.9	kW	Seasonal space heating energy efficiency	ηs	154	%	
Declared capacity for heating for part load a and outdoor temperature Tj	at indoor temp	perature 20 °C	;	Declared coefficient of performance or prim indoor temperature 20 °C and outdoor te			ad at	
Tj = -7 °C	Pdh	-	kW	Tj = -7 °C	COPd	-	-	
Tj = 2 <sup>°</sup> C	Pdh	13.8	kW	Tj = 2 °C	COPd	2.17	-	
Tj = 7 °C	Pdh	9.0	kW	Tj = 7 °C	COPd	3.18	-	
Tj = 12 °C	Pdh	4.2	kW	<b>Tj = 12</b> <sup>°</sup> C	COPd	5.26	-	
Tj = bivalent temperature	Pdh	9.0	kW	Tj = bivalent temperature	COPd	3.18	-	
Tj = operating limit	Pdh	13.8	kW	Tj = operating limit	COPd	2.17	-	
For air-to-water heat pumps: Tj = -15 $^\circ$ C	Pdh	-	kW	For air-to-water heat pumps: Tj = -15 °C	COPd	-	-	
Bivalent temperature	Tbiv	7	°C	For air-to-water heat pumps: Operation limit temperature	TOL	2	°C	
Cycling interval capacity for heating	Pcych	-	kW	Cycling interval efficiency	COPcyc	-	-	
Degradation co-efficient (**)	Cdh	0.9		Heating water operating limit temperature	WTOL	60	°C	
Power consumption in modes other than ac	tive mode			Supplementary heater				
Off mode	Poff	0.009 kW		Rated heat output (**)	Baura	0.1		
Standby mode	Psb	0.009	kW	Rated heat output ( )	Psup	0.1	kW	
Thermostat-off mode	Pto 0.026 kW			Type of energy input				
Crankcase heater mode	Pck 0.000 kW				Ele	ctrical Heating	)	
Other items								
Capacity control	variable			For air-to-water heat pumps: Rated air flow rate, outdoors	-	6150	m³/h	
Sound power level, indoors/outdoors	L <sub>WA</sub>	-/71	dB	For water-or brine-to-water heat pumps: Rated brine or water flow rate, outdoor	-	-	m³/h	
Annual energy consumption	Q <sub>HE</sub>	4746	kWh	heat exchanger				
For heat pump combination heater:								
Declared load profile		-		Water heating energy efficiency	η <sub>wh</sub>	-	%	
Daily electricity consumption	Q <sub>clec</sub>	-	kWh	Daily fuel consumption	Q <sub>fuel</sub>	-	kWh	
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Contact details

Annual electricity consumption

Airwell Residential SAS 3 avenue du centre - Bât A Les Quadrants - 78280 - Guyancourt - France

kWh

AEC

(\*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating Pdesignh, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj). (\*\*) If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0,9.

Annual fuel consumption

AFC

GJ

Model(s):	AW-WHPM16-H93
Air-to-water heat pump:	YES
Water-to-water heat pump:	NO
Brine-to-water heat pump:	NO
Low-temperature heat pump:	NO
Equipped with a supplementary heater:	NO
Heat pump combination heater:	NO
Declared climate condition:	AVERAGE

Parameters are declared for medium-temperature application.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit	
Rated heat output (*)	Prated	14.6	kW	Seasonal space heating energy efficiency	ηs	128	%	
Declared capacity for heating for part load a and outdoor temperature Tj	at indoor tem	perature 20 °C	;	Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj				
Tj = -7 °C	Pdh	12.9	kW	Tj = -7℃	COPd	2.04	-	
Tj = 2 °C	Pdh	8.3	kW	Tj = 2 °C	COPd	3.21	-	
Tj = 7 °C	Pdh	5.5	kW	Tj = 7 °C	COPd	4.32	-	
Tj = 12°C	Pdh	2.6	kW	Tj = 12 °C	COPd	5.12	-	
Tj = bivalent temperature	Pdh	12.9	kW	Tj = bivalent temperature	COPd	2.04	-	
Tj = operating limit	Pdh	11.2	kW	Tj = operating limit	COPd	1.65	-	
For air-to-water heat pumps: Tj = $-15^{\circ}$ C	Pdh	-	kW	For air-to-water heat pumps: Tj = -15 °C	COPd	-	-	
Bivalent temperature	Tbiv	-7	°C	For air-to-water heat pumps: Operation limit temperature	TOL	-10	°C	
Cycling interval capacity for heating	Pcych	-	kW	Cycling interval efficiency	COPcyc	-	-	
Degradation co-efficient (**)	Cdh	0.9		Heating water operating limit temperature	WTOL	60	°C	
Power consumption in modes other than ac	tive mode			Supplementary heater			•	
Off mode	Poff	0.009	kW	Rated heat output (**)	Psup	3.4	kW	
Standby mode	Psb	0.009	kW					
Thermostat-off mode	Pto	0.041	kW	Type of energy input	Electrical Heating			
Crankcase heater mode	Pck	0.000	kW	Electrical Heat			ng	
Other items								
Capacity control		variable		For air-to-water heat pumps: Rated air flow rate, outdoors	-	6150	m³/h	
Sound power level, indoors/outdoors	L <sub>WA</sub>	-/71	dB	For water-or brine-to-water heat pumps: Rated brine or water flow rate, outdoor	-	-	m³/h	
Annual energy consumption	Q <sub>HE</sub>	9216	kWh	heat exchanger				
For heat pump combination heater:								
Declared load profile		-		Water heating energy efficiency	η <sub>wh</sub>	-	%	
Daily electricity consumption	Q <sub>clec</sub>	-	kWh	Daily fuel consumption	Q <sub>fuel</sub>	-	kWh	
Annual electricity consumption	AEC	-	kWh	Annual fuel consumption	AFC		GJ	

Contact details

Airwell Residential SAS 3 avenue du centre - Bât A Les Quadrants - 78280 - Guyancourt - France

Model(s):	AW-WHPM16-H93
Air-to-water heat pump:	YES
Water-to-water heat pump:	NO
Brine-to-water heat pump:	NO
Low-temperature heat pump:	NO
Equipped with a supplementary heater:	NO
Heat pump combination heater:	NO
Declared climate condition:	COLDER

Parameters are declared for medium-temperature application.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	15.2	kW	Seasonal space heating energy efficiency	ηs	106	%
Declared capacity for heating for part load a and outdoor temperature Tj	at indoor tem	perature 20 °C	;	Declared coefficient of performance or primi indoor temperature 20 °C and outdoor tem			ad at
Tj = -7 °C	Pdh 9.6 kW		kW	Tj = -7 °C	COPd	2.38	-
Tj = 2 °C	Pdh	5.6	kW	Tj = 2 °C	COPd	3.31	-
<b>Tj = 7</b> ℃	Pdh	4.0	kW	<b>Tj = 7</b> ℃	COPd	4.47	-
Tj = 12℃	Pdh	1.9	kW	Tj = 12°C	COPd	4.05	-
Tj = bivalent temperature	Pdh	11.6	kW	Tj = bivalent temperature	COPd	1.88	-
Tj = operating limit	Pdh	6.7	kW	Tj = operating limit	COPd	1.10	-
For air-to-water heat pumps: Tj = -15 $^\circ$ C	Pdh	10.7	kW	For air-to-water heat pumps: Tj = -15 $^\circ$ C	COPd	1.76	-
Bivalent temperature	Tbiv	-13	°C	For air-to-water heat pumps: Operation limit temperature	TOL	-18	°C
Cycling interval capacity for heating	Pcych	-	kW	Cycling interval efficiency	COPcyc	-	-
Degradation co-efficient (**)	Cdh	0.9		Heating water operating limit temperature	WTOL	44	°C
Power consumption in modes other than ac	tive mode			Supplementary heater			
Off mode	Poff	0.009	kW	Deted best sutsut (**)	Psup	9.6	kW
Standby mode	Psb	0.009	kW	Rated heat output (**)			
Thermostat-off mode	Pto 0.041 kW		kW	Type of energy input	Electrical Userian		
Crankcase heater mode	Pck	0.000	kW		Electrical Heating		3
Other items							
Capacity control	variable			For air-to-water heat pumps: Rated air flow rate, outdoors	-	6150	m³/h
Sound power level, indoors/outdoors	L <sub>WA</sub>	-/71	dB	For water-or brine-to-water heat pumps: Rated brine or water flow rate, outdoor	-	-	m³/h
Annual energy consumption	Q <sub>HE</sub>	13768	kWh	heat exchanger			
For heat pump combination heater:							
Declared load profile		-		Water heating energy efficiency	η <sub>wh</sub>	-	%
Daily electricity consumption	Q <sub>clec</sub>	-	kWh	Daily fuel consumption	Q <sub>fuel</sub>	-	kW
Annual electricity consumption	AFC	AEC - kWh		Annual fuel consumption	AFC		GJ

Contact details

Airwell Residential SAS 3 avenue du centre - Bât A Les Quadrants - 78280 - Guyancourt - France

Model(s):	AW-WHPM16-H93			
Air-to-water heat pump:	YES			
Water-to-water heat pump:	NO			
Brine-to-water heat pump:	NO			
Low-temperature heat pump:	NO			
Equipped with a supplementary heater:	NO			
Heat pump combination heater:	NO			
Declared climate condition:	WARMER			

Parameters are declared for medium-temperature application.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	15.7	kW	Seasonal space heating energy efficiency	ηs	154	%
Declared capacity for heating for part load and outdoor temperature Tj	at indoor tem	perature 20 °C	;	Declared coefficient of performance or prim indoor temperature 20 °C and outdoor te			ad at
Tj = -7 °C	Pdh - kW		kW	Tj = -7 °C	COPd	-	-
Tj = 2 °C	Pdh	14.1	kW	Tj = 2 °C	COPd	2.14	-
<b>Tj = 7</b> ℃	Pdh	10.1	kW	<b>T</b> j <b>= 7</b> ℃	COPd	3.22	-
Tj = 12 <sup>°</sup> C	Pdh	4.8	kW	Tj = 12°C	COPd	5.46	-
Tj = bivalent temperature	Pdh	10.1	kW	Tj = bivalent temperature	COPd	3.22	-
Tj = operating limit	Pdh	14.1	kW	Tj = operating limit	COPd	2.14	-
For air-to-water heat pumps: Tj = -15 $^\circ$ C	Pdh	-	kW	For air-to-water heat pumps: Tj = -15 $^\circ\!$	COPd	-	-
Bivalent temperature	Tbiv	7	°C	For air-to-water heat pumps: Operation limit temperature	TOL	2	°C
Cycling interval capacity for heating	Pcych	-	kW	Cycling interval efficiency	COPcyc	-	-
Degradation co-efficient (**)	Cdh	0.9		Heating water operating limit temperature	WTOL	60	°C
Power consumption in modes other than a	ctive mode			Supplementary heater			
Off mode	Poff	0.009	kW	Rated heat output (**)	Psup	1.6	kW
Standby mode	Psb	0.009	kW				
Thermostat-off mode	Pto         0.041         kW           Pck         0.000         kW		kW	Type of energy input	Electrical Heating		
Crankcase heater mode			kW	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			
Other items							
Capacity control	variable			For air-to-water heat pumps: Rated air flow rate, outdoors	-	6150	m³/h
Sound power level, indoors/outdoors	L <sub>WA</sub>	-/71	dB	dB For water-or brine-to-water heat pumps: Rated brine or water flow rate, outdoor		-	m³/h
Annual energy consumption	Q <sub>HE</sub>	5367	kWh	heat exchanger			
For heat pump combination heater:							
Declared load profile		-		Water heating energy efficiency	η <sub>wh</sub>	-	%
Daily electricity consumption	Q <sub>clec</sub>	-	kWh	Daily fuel consumption	Q <sub>fuel</sub>	-	kW
, , ,	+			Annual fuel consumption			

Contact details

3 avenue du centre - Bât A Les Quadrants - 78280 - Guyancourt - France

# Information requirements for comfort chillers

Model(s):		AW-WHPM05-H91         Air to water         Water         Compressor driven vapour compression																	
Outdoor side heat exchanger of chiller: Indoor side heat exchanger chiller: Type:																			
									Driver of compressor:			Electric motor							
									Item	Symbol	Value	Unit	Item	Symbol	Value	Unit			
Rated cooling capacity	P <sub>rated,c</sub>	4.9	kW	Seasonal space cooling energy efficiency	η <sub>s,c</sub>	186	%												
Declared cooling capacity for part load at given of temperature Tj			n outdoor																
Tj=+35°C	P <sub>dc</sub>	4.9	kW	Tj=+35℃	EERd	3.01	-												
Tj=+30°C	P <sub>dc</sub>	3.6	kW	Tj=+30°C	EERd	4.36	-												
Tj=+25℃	P <sub>dc</sub>	2.2	kW	Tj=+25°C	EERd	5.61	-												
Tj=+20°C	P <sub>dc</sub>	1.0	kW	Tj=+20°C	EERd	5.14	-												
Degradation co-efficient or chillers (*)	C <sub>dc</sub>	0.9	-																
		Power cons	sumption in mo	des other than "active n	node"														
Off mode	Poff	0.009	kW	Crankcase heater mode	Рск	0.000	kW												
Thermosat-off mode	Ρτο	0.004	kW	Standby mode	P <sub>SB</sub>	0.009	kW												
			Othe	er items															
Capacity control		variable		For air-to-water comfort chillers:		0050	3.0												
Sound power level, indoors / outdoors	Lwa	-/61	dB	air flow rate, outdoor measured	-	3050	m³/h												
Emissions of nitroger oxides (if applicable)	NO <sub>x</sub> (**)	-	mg/kWh input GCV	For water / brine-to-water chillers: Rated brine or			m³/h												
GWP of the refrigerant	-	675	kg CO <sub>2 eq</sub> (100years)	water flow rate, outdoor side heat exchanger	-	-													
Standard rating cor	nditions used	Low temper	ature applicatio	n															
Contact details Airwell Resid		dential SAS centre - Bât A Les Quadrants - 78280 - Guyancourt - France																	

(\*\*) From 26 September 2018.

Model(s):			AW-WHPM05-	-H91						
Outdoor side heat e	exchanger of c	hiller:	Air to water							
Indoor side heat ex	changer chille	r:	Water							
Туре:			Compressor	driven vapour compres	sion					
Driver of compress	or:		Electric motor	r						
ltem	Symbol	Value	Unit	Item	Symbol	Value	Unit			
Rated cooling capacity	P <sub>rated,c</sub>	4.6	kW	Seasonal space cooling energy efficiency	η <sub>s,c</sub>	301	%			
Declared cooling c temperature Tj	apacity for pa	rt load at giver	n outdoor	Declared energy eff outdoor temperature		or part load at	given			
Tj=+35°C	P <sub>dc</sub>	4.6	kW	Tj=+35°C	EER₫	4.97	-			
Tj=+30°C	P <sub>dc</sub>	3.4	kW	Tj=+30°C	EERd	6.96	-			
Tj=+25°C	P <sub>dc</sub>	2.2	kW	Tj=+25°C	EERd	9.40	_			
Tj=+20°C	P <sub>dc</sub>	1.1	kW	Tj=+20°C	EERd	8.50	_			
Degradation co-efficient or chillers (*)	C <sub>dc</sub>	0.9	-							
		Power cons	sumption in mod	des other than "active n	node"					
Off mode	Poff	0.009	kW	Crankcase heater mode	Рск	0.000	kW			
Thermosat-off mode	P <sub>TO</sub>	0.004	kW	Standby mode	P <sub>SB</sub>	0.009	kW			
			Othe	r items						
Capacity control		variable		For air-to-water comfort chillers:			0.5			
Sound power level, indoors / outdoors	Lwa	-/61	dB	air flow rate, outdoor measured	-	3050	m³/h			
Emissions of nitroger oxides (if applicable)	NO <sub>x</sub> (**)	-	mg/kWh input GCV	For water / brine-to-water chillers: Rated brine or			m³/h			
GWP of the refrigerant	-	675	kg CO <sub>2 eq</sub> (100years)	water flow rate, outdoor side heat exchanger	-	-	111~/11			
Standard rating cor	ditions used	Medium tem	perature applic	ation						
Contact details Airwell Residen			ential SAS centre - Bât A Les Quadrants - 78280 - Guyancourt - France							

Model(s):			AW-WHPM07	AW-WHPM07-H91						
Outdoor side heat e	exchanger of c	hiller:	Air to water	Air to water						
ndoor side heat ex	changer chille	r:	Water							
Гуре:			Compressor	driven vapour compres	sion					
Driver of compresso	or:		Electric moto	r						
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit			
Rated cooling capacity	P <sub>rated,c</sub>	6.2	kW	Seasonal space cooling energy efficiency	η <sub>s,c</sub>	196	%			
Declared cooling c temperature Tj	apacity for pa	rt load at giver	n outdoor	Declared energy eff outdoor temperature		or part load at	given			
Tj=+35°C	P <sub>dc</sub>	6.2	kW	Tj=+35°C	EER₫	2.78	-			
Tj=+30°C	P <sub>dc</sub>	4.7	kW	Tj=+30°C	EERd	4.21	-			
Tj=+25°C	P <sub>dc</sub>	3.0	kW	Tj=+25°C	EERd	6.10	-			
Tj=+20°C	P <sub>dc</sub>	1.4	kW	Tj=+20°C	EERd	6.65	-			
Degradation co-efficient or chillers (*)	C <sub>dc</sub>	0.9	-							
		Power cons	sumption in mod	des other than "active n	node"					
Off mode	Poff	0.009	kW	Crankcase heater mode	Рск	0.000	kW			
Thermosat-off mode	Рто	0.002	kW	Standby mode	P <sub>SB</sub>	0.009	kW			
i			Othe	r items						
Capacity control		variable		For air-to-water comfort chillers:		0050	3.4			
Sound power level, indoors / outdoors	Lwa	-/64	dB	air flow rate, outdoor measured	-	3050	m³/h			
Emissions of nitroger oxides (if applicable)	NO <sub>x</sub> (**)	-	mg/kWh input GCV	For water / brine-to-water chillers: Rated brine or			m³/h			
GWP of the refrigerant	-	675	kg CO <sub>2 eq</sub> (100years)	water flow rate, outdoor side heat exchanger	-	-	111-711			
Standard rating cor	ditions used	Low temper	ature applicatio	n						
Contact details		Airwell Resic 3 avenue du		Les Quadrants - 78280	- Guvancourt	- France				

Model(s):			AW-WHPM07	AW-WHPM07-H91						
Outdoor side heat e	exchanger of c	hiller:	Air to water							
Indoor side heat exe	changer chille	r:	Water							
Туре:			Compressor	driven vapour compres	sion					
Driver of compresso	or:		Electric moto	r						
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit			
Rated cooling capacity	P <sub>rated,c</sub>	6.4	kW	Seasonal space cooling energy efficiency	η <sub>s,c</sub>	340	%			
Declared cooling c temperature Tj	apacity for pa	rt load at giver	n outdoor	Declared energy eff outdoor temperature		or part load at	given			
Tj=+35°C	P <sub>dc</sub>	6.4	kW	Tj=+35°C	EER₫	4.72	-			
Tj=+30°C	P <sub>dc</sub>	4.9	kW	Tj=+30°C	EER₫	6.80	-			
Tj=+25°C	P <sub>dc</sub>	3.1	kW	Tj=+25°C	EER₫	10.70	-			
Tj=+20°C	P <sub>dc</sub>	1.6	kW	Tj=+20°C	EERd	12.16	-			
Degradation co-efficient or chillers (*)	C <sub>dc</sub>	0.9	-							
I		Power cons	sumption in mod	des other than "active n	node"					
Off mode	POFF	0.009	kW	Crankcase heater mode	Рск	0.000	kW			
Thermosat-off mode	P <sub>TO</sub>	0.002	kW	Standby mode	P <sub>SB</sub>	0.009	kW			
			Othe	r items						
Capacity control		variable		For air-to-water comfort chillers:			0.1			
Sound power level, indoors / outdoors	Lwa	-/64	dB	air flow rate, outdoor measured	-	3050	m³/h			
Emissions of nitroger oxides (if applicable)	NO <sub>x</sub> (**)	-	mg/kWh input GCV	For water / brine-to-water chillers: Rated brine or			m³/h			
GWP of the refrigerant	-	675	kg CO <sub>2 eq</sub> (100years)	water flow rate, outdoor side heat exchanger	-	-	1119/11			
Standard rating con	ditions used	Medium tem	perature applic	ation						
Contact details		Airwell Resid 3 avenue du		_es Quadrants - 78280	- Guvancourt	- France				

Model(s):			AW-WHPM09	AW-WHPM09-H91							
Outdoor side heat e	exchanger of c	hiller:	Air to water	Air to water							
Indoor side heat ex	changer chille	r:	Water								
Туре:			Compressor	driven vapour compres	sion						
Driver of compresso	or:		Electric moto	r							
ltem	Symbol	Value	Unit	Item	Symbol	Value	Unit				
Rated cooling capacity	P <sub>rated,c</sub>	7.9	kW	Seasonal space cooling energy efficiency	η <sub>s,c</sub>	194	%				
Declared cooling c temperature Tj	apacity for pa	rt load at giver	n outdoor	Declared energy eff outdoor temperature		or part load at	given				
Tj=+35°C	P <sub>dc</sub>	7.9	kW	Tj=+35°C	EER₫	2.39	-				
Tj=+30°C	P <sub>dc</sub>	5.9	kW	Tj=+30°C	EER₫	3.86	-				
Tj=+25°C	P <sub>dc</sub>	3.9	kW	Tj=+25°C	EERd	5.95	-				
Tj=+20°C	P <sub>dc</sub>	1.7	kW	Tj=+20°C	EERd	7.47	-				
Degradation co-efficient for chillers (*)	Cdc	0.9	-								
		Power cons	sumption in mo	des other than "active n	node"						
Off mode	Poff	0.009	kW	Crankcase heater mode	Рск	0.000	kW				
Thermosat-off mode	Ρτο	0.003	kW	Standby mode	P <sub>SB</sub>	0.009	kW				
			Othe	r items							
Capacity control		variable		For air-to-water comfort chillers:		0050	3.11				
Sound power level, indoors / outdoors	Lwa	-/67	dB	air flow rate, outdoor measured	-	3050	m³/h				
Emissions of nitroger oxides (if applicable)	NO <sub>×</sub> (**)	-	mg/kWh input GCV	For water / brine-to-water chillers: Rated brine or			m³/h				
GWP of the refrigerant	-	675	kg CO <sub>2 eq</sub> (100years)	water flow rate, outdoor side heat exchanger	-	-	111-711				
Standard rating cor	ditions used	Low tempera	ature applicatio	n							
Contact details		Airwell Resic 3 avenue du		Les Quadrants - 78280	- Guvancourt	- France					

Model(s):			AW-WHPM09	AW-WHPM09-H91						
Outdoor side heat e	exchanger of c	hiller:	Air to water							
Indoor side heat exe	changer chille	r:	Water							
Туре:			Compressor	driven vapour compres	sion					
Driver of compresso	or:		Electric moto	r						
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit			
Rated cooling capacity	P <sub>rated,c</sub>	7.9	kW	Seasonal space cooling energy efficiency	η <sub>s,c</sub>	312	%			
Declared cooling c temperature Tj	apacity for pa	rt load at giver	n outdoor	Declared energy eff outdoor temperature		or part load at	given			
Tj=+35°C	P <sub>dc</sub>	7.9	kW	Tj=+35°C	EERd	4.17	-			
Tj=+30°C	P <sub>dc</sub>	6.1	kW	Tj=+30°C	EER₫	6.14	-			
Tj=+25°C	P <sub>dc</sub>	3.8	kW	Tj=+25°C	EER₫	9.80	-			
Tj=+20°C	P <sub>dc</sub>	2.0	kW	Tj=+20°C	EERd	11.53	-			
Degradation co-efficient or chillers (*)	C <sub>dc</sub>	0.9	-							
I		Power cons	sumption in mod	des other than "active n	node"					
Off mode	POFF	0.009	kW	Crankcase heater mode	Рск	0.000	kW			
Thermosat-off mode	P <sub>TO</sub>	0.003	kW	Standby mode	P <sub>SB</sub>	0.009	kW			
		-	Othe	r items						
Capacity control		variable		For air-to-water comfort chillers:		0050	2.4			
Sound power level, indoors / outdoors	Lwa	-/67	dB	air flow rate, outdoor measured	-	3050	m³/h			
Emissions of nitroger oxides (if applicable)	NO <sub>x</sub> (**)	-	mg/kWh input GCV	For water / brine-to-water chillers: Rated brine or			m³/h			
GWP of the refrigerant	-	675	kg CO <sub>2 eq</sub> (100years)	water flow rate, outdoor side heat exchanger	-	-	1117/11			
Standard rating con	ditions used	Medium tem	perature applic	ation						
Contact details		Airwell Resid		_es Quadrants - 78280	- Guvancourt	- France				

Model(s):			AW-WHPM01	AW-WHPM012-H91						
Outdoor side heat e	exchanger of c	hiller:	Air to water							
Indoor side heat exe	changer chille	r:	Water							
Туре:			Compressor	driven vapour compres	sion					
Driver of compresso	or:		Electric motor	r						
ltem	Symbol	Value	Unit	Item	Symbol	Value	Unit			
Rated cooling capacity	P <sub>rated,c</sub>	11.3	kW	Seasonal space cooling energy efficiency	η <sub>s,c</sub>	191	%			
Declared cooling c temperature Tj	apacity for pa	rt load at giver	n outdoor	Declared energy eff outdoor temperature		or part load at	given			
Tj=+35℃	P <sub>dc</sub>	11.3	kW	Tj=+35°C	EER₫	2.90	-			
Tj=+30°C	P <sub>dc</sub>	8.1	kW	Tj=+30°C	EERd	4.05	-			
Tj=+25°C	P <sub>dc</sub>	5.2	kW	Tj=+25°C	EER₫	5.42	-			
Tj=+20°C	P <sub>dc</sub>	2.5	kW	Tj=+20°C	EERd	6.73	-			
Degradation co-efficient or chillers (*)	C <sub>dc</sub>	0.9	-							
		Power cons	sumption in mod	des other than "active n	node"					
Off mode	Poff	0.009	kW	Crankcase heater mode	Рск	0.000	kW			
Thermosat-off mode	Рто	0.012	kW	Standby mode	P <sub>SB</sub>	0.009	kW			
			Othe	r items						
Capacity control		variable		For air-to-water comfort chillers:			2.11			
Sound power level, indoors / outdoors	Lwa	-/68	dB	air flow rate, outdoor measured	-	6150	m³/h			
Emissions of nitroger oxides (if applicable)	NO <sub>x</sub> (**)	-	mg/kWh input GCV	For water / brine-to-water chillers: Rated brine or			m³/h			
GWP of the refrigerant	-	675	kg CO <sub>2 eq</sub> (100years)	water flow rate, outdoor side heat exchanger	-	-	1117/11			
Standard rating cor	ditions used	Low tempera	ature applicatio	n						
Contact details		Airwell Resid 3 avenue du		_es Quadrants - 78280	- Guyancourt	- France				

Model(s):			AW-WHPM01	2-H91						
Outdoor side heat e	exchanger of c	hiller:	Air to water							
Indoor side heat ex	changer chille	r:	Water							
Туре:			Compressor	driven vapour compres	sion					
Driver of compresso	or:		Electric motor	r						
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit			
Rated cooling capacity	P <sub>rated,c</sub>	12.6	kW	Seasonal space cooling energy efficiency	η <sub>s,c</sub>	297	%			
Declared cooling c temperature Tj	apacity for pa	rt load at giver	n outdoor	Declared energy eff outdoor temperature		or part load at	given			
Tj=+35°C	P <sub>dc</sub>	12.6	kW	Tj=+35°C	EER₫	4.74	-			
Tj=+30°C	P <sub>dc</sub>	8.9	kW	Tj=+30°C	EER₫	6.50	_			
Tj=+25°C	P <sub>dc</sub>	5.9	kW	Tj=+25°C	EER₫	8.65	-			
Tj=+20°C	P <sub>dc</sub>	3.0	kW	Tj=+20°C	EERd	9.00	-			
Degradation co-efficient or chillers (*)	C <sub>dc</sub>	0.9	-							
		Power cons	sumption in mod	des other than "active n	node"					
Off mode	Poff	0.009	kW	Crankcase heater mode	Рск	0.000	kW			
Thermosat-off mode	Рто	0.012	kW	Standby mode	P <sub>SB</sub>	0.009	kW			
i			Othe	r items						
Capacity control		variable		For air-to-water comfort chillers:			2.11			
Sound power level, indoors / outdoors	Lwa	-/68	dB	air flow rate, outdoor measured	-	6150	m³/h			
Emissions of nitroger oxides (if applicable)	NO <sub>x</sub> (**)	-	mg/kWh input GCV	For water / brine-to-water chillers: Rated brine or			m³/h			
GWP of the refrigerant	-	675	kg CO <sub>2 eq</sub> (100years)	water flow rate, outdoor side heat exchanger	-	-	111°/11			
Standard rating cor	ditions used	Medium tem	perature applic	ation						
Contact details		Airwell Resid 3 avenue du		_es Quadrants - 78280	- Guvancourt	- France				

Model(s):			AW-WHPM014-H91						
Outdoor side heat e	exchanger of c	hiller:	Air to water						
ndoor side heat ex	changer chille	r:	Water						
Гуре:			Compressor	driven vapour compres	sion				
Driver of compresso	or:		Electric moto	r					
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit		
Rated cooling capacity	P <sub>rated,c</sub>	12.9	kW	Seasonal space cooling energy efficiency	η <sub>s,c</sub>	186	%		
Declared cooling c temperature Tj	apacity for pa	rt load at giver	n outdoor	Declared energy eff outdoor temperature		or part load at	given		
Tj=+35°C	P <sub>dc</sub>	12.9	kW	Tj=+35°C	EER₫	2.71	-		
Tj=+30°C	P <sub>dc</sub>	9.6	kW	Tj=+30°C	EER₫	3.90	-		
Tj=+25°C	P <sub>dc</sub>	6.0	kW	Tj=+25°C	EER₫	5.37	-		
Tj=+20°C	P <sub>dc</sub>	2.9	kW	Tj=+20°C	EERd	6.71	-		
Degradation co-efficient or chillers (*)	C <sub>dc</sub>	0.9	-						
		Power cons	sumption in mod	des other than "active n	node"				
Off mode	Poff	0.009	kW	Crankcase heater mode	Рск	0.000	kW		
Thermosat-off mode	Ρτο	0.022	kW	Standby mode	P <sub>SB</sub>	0.009	kW		
			Othe	r items					
Capacity control		variable		For air-to-water comfort chillers:		0450	2.1		
Sound power level, indoors / outdoors	Lwa	-/71	dB	air flow rate, outdoor measured	-	6150	m³/h		
Emissions of nitroger oxides (if applicable)	NO <sub>x</sub> (**)	-	mg/kWh input GCV	For water / brine-to-water chillers: Rated brine or			m³/h		
GWP of the refrigerant	-	675	kg CO <sub>2 eq</sub> (100years)	water flow rate, outdoor side heat exchanger	-	-	1117/11		
Standard rating cor	nditions used	Low tempera	ature applicatio	n					
Contact details		Airwell Resid		Les Quadrants - 78280	- Guvancourt	- France			

Model(s):			AW-WHPM01	4-H91						
Outdoor side heat ε	exchanger of c	hiller:	Air to water							
Indoor side heat ex	changer chille	r:	Water							
Гуре:			Compressor	driven vapour compres	sion					
Driver of compresso	or:		Electric moto	r						
ltem	Symbol	Value	Unit	Item	Symbol	Value	Unit			
Rated cooling capacity	P <sub>rated,c</sub>	14.2	kW	Seasonal space cooling energy efficiency	η <sub>s,c</sub>	283	%			
Declared cooling c temperature Tj	apacity for pa	rt load at giver	n outdoor	Declared energy eff outdoor temperature		or part load at	given			
Tj=+35°C	P <sub>dc</sub>	14.2	kW	Tj=+35°C	EER₫	4.42	-			
Tj=+30°C	P <sub>dc</sub>	10.5	kW	Tj=+30°C	EERd	6.14	-			
Tj=+25°C	P <sub>dc</sub>	6.6	kW	Tj=+25°C	EERd	8.44	-			
Tj=+20°C	P <sub>dc</sub>	2.9	kW	Tj=+20°C	EERd	8.43	-			
Degradation co-efficient or chillers (*)	C <sub>dc</sub>	0.9	-							
		Power cons	sumption in mod	des other than "active n	node"					
Off mode	Poff	0.009	kW	Crankcase heater mode	Рск	0.000	kW			
Thermosat-off mode	P <sub>TO</sub>	0.022	kW	Standby mode	P <sub>SB</sub>	0.009	kW			
			Othe	r items						
Capacity control		variable		For air-to-water comfort chillers:		0450				
Sound power level, indoors / outdoors	Lwa	-/71	dB	air flow rate, outdoor measured	-	6150	m³/h			
Emissions of nitroger oxides (if applicable)	NO <sub>×</sub> (**)	-	mg/kWh input GCV	For water / brine-to-water chillers: Rated brine or			m³/h			
GWP of the refrigerant	-	675	kg CO <sub>2 eq</sub> (100years)	water flow rate, outdoor side heat exchanger	-	-	111 /11			
Standard rating cor	nditions used	Medium tem	perature applic	ation						
Contact details		Airwell Resid 3 avenue du		Les Quadrants - 78280	- Guvancourt	- France				

Model(s):			AW-WHPM016-H91								
Outdoor side heat e	exchanger of c	hiller:	Air to water	Air to water							
ndoor side heat ex	changer chille	r:	Water								
Гуре:			Compressor	driven vapour compres	sion						
Driver of compresso	or:		Electric moto	r							
ltem	Symbol	Value	Unit	Item	Symbol	Value	Unit				
Rated cooling capacity	P <sub>rated,c</sub>	13.9	kW	Seasonal space cooling energy efficiency	η <sub>s,c</sub>	178	%				
Declared cooling c temperature Tj	apacity for pa	rt load at giver	n outdoor	Declared energy eff outdoor temperature		or part load at	given				
Tj=+35°C	P <sub>dc</sub>	13.9	kW	Tj=+35°C	EER₫	2.53	-				
Tj=+30°C	P <sub>dc</sub>	10.5	kW	Tj=+30°C	EERd	3.81	-				
Tj=+25°C	P <sub>dc</sub>	6.4	kW	Tj=+25°C	EERd	5.16	-				
Tj=+20°C	P <sub>dc</sub>	3.1	kW	Tj=+20°C	EERd	6.49	-				
Degradation co-efficient or chillers (*)	C <sub>dc</sub>	0.9	-								
		Power cons	sumption in mod	des other than "active n	node"						
Off mode	Poff	0.009	kW	Crankcase heater mode	Рск	0.000	kW				
Thermosat-off mode	Ρτο	0.031	kW	Standby mode	P <sub>SB</sub>	0.009	kW				
,			Othe	r items							
Capacity control		variable		For air-to-water comfort chillers:		0450	3.4				
Sound power level, indoors / outdoors	Lwa	-/71	dB	air flow rate, outdoor measured	-	6150	m³/h				
Emissions of nitroger oxides (if applicable)	NO <sub>x</sub> (**)	-	mg/kWh input GCV	For water / brine-to-water chillers: Rated brine or			m³/h				
GWP of the refrigerant	-	675	kg CO <sub>2 eq</sub> (100years)	water flow rate, outdoor side heat exchanger	-	-	111-/11				
Standard rating cor	nditions used	Low tempera	ature applicatio	n							
Contact details		Airwell Resid 3 avenue du		Les Quadrants - 78280	- Guvancourt	- France					

Model(s):			AW-WHPM01	AW-WHPM016-H91						
Outdoor side heat e	exchanger of c	hiller:	Air to water							
Indoor side heat ex	changer chille	r:	Water							
Туре:			Compressor	driven vapour compres	sion					
Driver of compresso	or:		Electric motor	r						
ltem	Symbol	Value	Unit	Item	Symbol	Value	Unit			
Rated cooling capacity	P <sub>rated,c</sub>	15.3	kW	Seasonal space cooling energy efficiency	η <sub>s,c</sub>	268	%			
Declared cooling c temperature Tj	apacity for pa	rt load at giver	n outdoor	Declared energy eff outdoor temperature		or part load at	given			
Tj=+35°C	P <sub>dc</sub>	15.3	kW	Tj=+35°C	EERd	4.19	-			
Tj=+30°C	P <sub>dc</sub>	11.3	kW	Tj=+30°C	EER₫	5.94	-			
Tj=+25°C	P <sub>dc</sub>	7.2	kW	Tj=+25°C	EER₫	7.98	-			
Tj=+20°C	P <sub>dc</sub>	3.4	kW	Tj=+20°C	EERd	8.27	-			
Degradation co-efficient or chillers (*)	C <sub>dc</sub>	0.9	-							
		Power cons	sumption in mod	des other than "active n	node"					
Off mode	Poff	0.009	kW	Crankcase heater mode	Рск	0.000	kW			
Thermosat-off mode	Ρτο	0.031	kW	Standby mode	P <sub>SB</sub>	0.009	kW			
i			Othe	r items						
Capacity control		variable		For air-to-water comfort chillers:			2.11			
Sound power level, indoors / outdoors	Lwa	-/71	dB	air flow rate, outdoor measured	-	6150	m³/h			
Emissions of nitroger oxides (if applicable)	NO <sub>x</sub> (**)	-	mg/kWh input GCV	For water / brine-to-water chillers: Rated brine or			m³/h			
GWP of the refrigerant	-	675	kg CO <sub>2 eq</sub> (100years)	water flow rate, outdoor side heat exchanger	-	-	111-/11			
Standard rating cor	ditions used	Medium tem	perature applic	ation						
Contact details		Airwell Resid 3 avenue du		_es Quadrants - 78280	- Guvancourt	- France				

Model(s):			AW-WHPM01	AW-WHPM012-H93						
Outdoor side heat e	exchanger of c	chiller:	Air to water							
ndoor side heat exe	changer chille	r:	Water							
Гуре:			Compressor	driven vapour compres	sion					
Driver of compresso	or:		Electric moto	r						
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit			
Rated cooling capacity	P <sub>rated,c</sub>	11.3	kW	Seasonal space cooling energy efficiency	η <sub>s,c</sub>	191	%			
Declared cooling c temperature Tj	apacity for pa	rt load at giver	n outdoor	Declared energy eff outdoor temperature		or part load at	given			
Tj=+35°C	P <sub>dc</sub>	11.3	kW	Tj=+35°C	EER₫	2.90	-			
Tj=+30°C	P <sub>dc</sub>	8.1	kW	Tj=+30°C	EER₫	4.05	-			
Tj=+25°C	P <sub>dc</sub>	5.2	kW	Tj=+25°C	EER₫	5.42	-			
Tj=+20°C	P <sub>dc</sub>	2.5	kW	Tj=+20°C	EERd	6.73	-			
Degradation co-efficient or chillers (*)	C <sub>dc</sub>	0.9	-							
		Power cons	sumption in mod	des other than "active n	node"					
Off mode	POFF	0.009	kW	Crankcase heater mode	Рск	0.000	kW			
Thermosat-off mode	Ρτο	0.012	kW	Standby mode	P <sub>SB</sub>	0.009	kW			
			Othe	r items						
Capacity control		variable		For air-to-water comfort chillers:			2.4			
Sound power level, indoors / outdoors	Lwa	-/68	dB	air flow rate, outdoor measured	-	6150	m³/h			
Emissions of nitroger oxides (if applicable)	NO <sub>x</sub> (**)	-	mg/kWh input GCV	For water / brine-to-water chillers: Rated brine or			m³/h			
GWP of the refrigerant	-	675	kg CO <sub>2 eq</sub> (100years)	water flow rate, outdoor side heat exchanger	-	-	117/1			
Standard rating con	ditions used	Low tempera	ature applicatio	n						
Contact details		Airwell Resid		Les Quadrants - 78280	- Guvancourt	- France				

Model(s):			AW-WHPM012-H93								
Outdoor side heat e	exchanger of c	hiller:	Air to water								
Indoor side heat ex	changer chille	r:	Water	Water							
Гуре:			Compressor	driven vapour compres	sion						
Driver of compressor:			Electric moto	r							
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit				
Rated cooling capacity	P <sub>rated,c</sub>	12.6	kW	Seasonal space cooling energy efficiency	η <sub>s,c</sub>	297	%				
Declared cooling c temperature Tj	apacity for pa	rt load at giver	n outdoor	Declared energy eff outdoor temperature		or part load at	given				
Tj=+35°C	P <sub>dc</sub>	12.6	kW	Tj=+35°C	EER₫	4.74	-				
Tj=+30°C	P <sub>dc</sub>	8.9	kW	Tj=+30°C	EER₫	6.50	-				
Tj=+25°C	P <sub>dc</sub>	5.9	kW	Tj=+25°C	EER₫	8.65	-				
Tj=+20°C	P <sub>dc</sub>	3.0	kW	Tj=+20°C	EERd	9.00	-				
Degradation co-efficient or chillers (*)	C <sub>dc</sub>	0.9	-								
		Power cons	sumption in mod	des other than "active n	node"						
Off mode	Poff	0.009	kW	Crankcase heater mode	Рск	0.000	kW				
Thermosat-off mode	Ρτο	0.012 kW		Standby mode	P <sub>SB</sub>	0.009	kW				
I			Othe	r items							
Capacity control		variable		For air-to-water comfort chillers:		6150	2.4				
Sound power level, indoors / outdoors	Lwa	-/68	dB	air flow rate, outdoor measured	-		m³/h				
Emissions of nitroger oxides (if applicable)	NO <sub>x</sub> (**)	-	mg/kWh input GCV	For water / brine-to-water chillers: Rated brine or			0.5				
GWP of the refrigerant	-	675	kg CO <sub>2 eq</sub> (100years)	water flow rate, outdoor side heat exchanger	-	-	m³/h				
Standard rating cor	nditions used	Medium tem	perature applic	ation							
		Airwell Resid		Les Quadrants - 78280	- Guvancourt	- France					

Model(s):			AW-WHPM014-H93								
Outdoor side heat e	exchanger of c	hiller:	Air to water								
Indoor side heat ex	changer chille	r:	Water	Water							
Гуре:			Compressor	driven vapour compres	sion						
Driver of compressor:			Electric moto	r							
ltem	Symbol	Value	Unit	Item	Symbol	Value	Unit				
Rated cooling capacity	P <sub>rated,c</sub>	12.9	kW	Seasonal space cooling energy efficiency	η <sub>s,c</sub>	186	%				
Declared cooling c temperature Tj	apacity for pa	rt load at giver	n outdoor	Declared energy eff outdoor temperature		or part load at	given				
Tj=+35°C	P <sub>dc</sub>	12.9	kW	Tj=+35°C	EER₫	2.71	-				
Tj=+30°C	P <sub>dc</sub>	9.6	kW	Tj=+30°C	EERd	3.90	-				
Tj=+25°C	P <sub>dc</sub>	6.0	kW	Tj=+25°C	EERd	5.37	-				
Tj=+20°C	P <sub>dc</sub>	2.9	kW	Tj=+20°C	EERd	6.71	_				
Degradation co-efficient or chillers (*)	C <sub>dc</sub>	0.9	-								
		Power cons	sumption in mod	des other than "active n	node"						
Off mode	Poff	0.009	kW	Crankcase heater mode	Рск	0.000	kW				
Thermosat-off mode	Ρτο	0.022 kW		Standby mode	P <sub>SB</sub>	0.009	kW				
			Othe	r items							
Capacity control		variable		For air-to-water comfort chillers:			2.11				
Sound power level, indoors / outdoors	Lwa	-/71	dB	air flow rate, outdoor measured	-	6150	m³/h				
Emissions of nitroger oxides (if applicable)	NO <sub>x</sub> (**)	-	mg/kWh input GCV	For water / brine-to-water chillers: Rated brine or		-	m³/h				
GWP of the refrigerant	-	675	kg CO <sub>2 eq</sub> (100years)	water flow rate, outdoor side heat exchanger	-		111-/11				
Standard rating cor	nditions used	Low tempera	ature applicatio	n							
		Airwell Resid		lential SAS centre - Bât A Les Quadrants - 78280 - Guyancourt - France							

Model(s):			AW-WHPM014-H93							
Outdoor side heat e	exchanger of c	hiller:	Air to water Water							
ndoor side heat ex	changer chille	r:								
Гуре:			Compressor	driven vapour compres	sion					
Driver of compressor:			Electric moto	r						
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit			
Rated cooling capacity	P <sub>rated,c</sub>	14.2	kW	Seasonal space cooling energy efficiency	η <sub>s,c</sub>	283	%			
Declared cooling c temperature Tj	apacity for pa	rt load at giver	n outdoor	Declared energy eff outdoor temperature		or part load at	given			
Tj=+35°C	P <sub>dc</sub>	14.2	kW	Tj=+35℃	EER₫	4.42	-			
Tj=+30°C	P <sub>dc</sub>	10.5	kW	Tj=+30°C	EER₫	6.14				
Tj=+25°C	P <sub>dc</sub>	6.6	kW	Tj=+25°C	EER₫	8.44	-			
Tj=+20°C	P <sub>dc</sub>	2.9	kW	Tj=+20°C	EERd	8.43	-			
Degradation co-efficient or chillers (*)	C <sub>dc</sub>	0.9	-							
		Power cons	sumption in mod	des other than "active n	node"					
Off mode	Poff	0.009	kW	Crankcase heater mode	Рск	0.000	kW			
Thermosat-off mode	Ρτο	0.022 kW		Standby mode	P <sub>SB</sub>	0.009	kW			
			Othe	r items						
Capacity control		variable		For air-to-water comfort chillers:			2.0			
Sound power level, indoors / outdoors	Lwa	-/71	dB	air flow rate, outdoor measured	-	6150	m³/h			
Emissions of nitroger oxides (if applicable)	NO <sub>x</sub> (**)	-	mg/kWh input GCV	For water / brine-to-water chillers: Rated brine or						
GWP of the refrigerant	-	675	kg CO <sub>2 eq</sub> (100years)	water flow rate, outdoor side heat exchanger	-	-	m³/h			
Standard rating cor	ditions used	Medium tem	perature applic	ation						
Contact details		Airwell Resid		Les Quadrants - 78280	- Guvancourt	- France				

Model(s):			AW-WHPM016-H93 Air to water Water							
Outdoor side heat e	exchanger of c	hiller:								
Indoor side heat ex	changer chille	r:								
Туре:			Compressor	driven vapour compres	sion					
Driver of compressor:			Electric moto	r						
ltem	Symbol	Value	Unit	Item	Symbol	Value	Unit			
Rated cooling capacity	P <sub>rated,c</sub>	13.9	kW	Seasonal space cooling energy efficiency	η <sub>s,c</sub>	178	%			
Declared cooling c temperature Tj	apacity for pa	rt load at giver	n outdoor	Declared energy eff outdoor temperature		or part load at	given			
Tj=+35℃	P <sub>dc</sub>	13.9	kW	Tj=+35°C	EERd	2.53	-			
Tj=+30°C	P <sub>dc</sub>	10.5	kW	Tj=+30°C	EERd	3.81	-			
Tj=+25°C	P <sub>dc</sub>	6.4	kW	Tj=+25°C	EER₫	5.16	-			
Tj=+20°C	P <sub>dc</sub>	3.1	kW	Tj=+20°C	EERd	6.49	-			
Degradation co-efficient or chillers (*)	C <sub>dc</sub>	0.9	-							
		Power cons	umption in mod	des other than "active n	node"					
Off mode	Poff	0.009	kW	Crankcase heater mode	Рск	0.000	kW			
Thermosat-off mode	Рто	0.031 kW		Standby mode	P <sub>SB</sub>	0.009	kW			
			Othe	r items						
Capacity control		variable		For air-to-water comfort chillers:			0.1			
Sound power level, indoors / outdoors	Lwa	-/71	dB	air flow rate, outdoor measured	-	6150	m³/h			
Emissions of nitroger oxides (if applicable)	NO <sub>x</sub> (**)	-	mg/kWh input GCV	For water / brine-to-water chillers: Rated brine or			m³/h			
GWP of the refrigerant	-	675	kg CO <sub>2 eq</sub> (100years)	water flow rate, outdoor side heat exchanger	-	-	1119/11			
Standard rating cor	ditions used	Low tempera	ature applicatio	n						
		Airwell Resid	lential SAS centre - Bât A Les Quadrants - 78280 - Guyancourt - France							

Model(s):			AW-WHPM016-H93 Air to water Water								
Outdoor side heat e	exchanger of c	chiller:									
Indoor side heat exe	changer chille	r:									
Туре:			Compressor	Compressor driven vapour compression							
Driver of compressor:			Electric moto	r							
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit				
Rated cooling capacity	P <sub>rated,c</sub>	15.3	kW	Seasonal space cooling energy efficiency	η <sub>s,c</sub>	268	%				
Declared cooling c temperature Tj	apacity for pa	rt load at giver	n outdoor	Declared energy eff outdoor temperature		or part load at	ı given				
Tj=+35°C	P <sub>dc</sub>	15.3	kW	Tj=+35°C	EERd	4.19	-				
Tj=+30°C	P <sub>dc</sub>	11.3	kW	Tj=+30°C	EERd	5.94	-				
Tj=+25°C	P <sub>dc</sub>	7.2	kW	Tj=+25°C	EERd	7.98	-				
Tj=+20°C	P <sub>dc</sub>	3.4	kW	Tj=+20°C	EERd	8.27	-				
Degradation co-efficient or chillers (*)	C <sub>dc</sub>	0.9	-								
I		Power cons	sumption in mod	des other than "active n	node"						
Off mode	POFF	0.009	kW	Crankcase heater mode	Рск	0.000	kW				
Thermosat-off mode	P <sub>TO</sub>	0.031 kW		Standby mode	P <sub>SB</sub>	0.009	kW				
			Othe	r items							
Capacity control		variable		For air-to-water comfort chillers:		6150	m³/h				
Sound power level, indoors / outdoors	Lwa	-/71	dB	air flow rate, outdoor measured	-						
Emissions of nitroger oxides (if applicable)	NO <sub>x</sub> (**)	-	mg/kWh input GCV	For water / brine-to-water chillers: Rated brine or			m³/h				
GWP of the refrigerant	-	675	kg CO <sub>2 eq</sub> (100years)	water flow rate, outdoor side heat exchanger	-	-	111-/11				
Standard rating con	ditions used	Medium tem	perature applic	ation							
Contact details		Airwell Resid 3 avenue du		_es Quadrants - 78280	- Guvancourt	- France					

	Mode			Heatin	ıg		Coc	oling
Model	Ambient temperature		7/6		2/1	-7/-8	35,	/24
	Water temperature	30-35	40-45	47-55	30-35	30-35	23-18	12-7
	Capacity /W	4650	4800	4650	4600	4900	4600	4850
AW-WHPM05-H91	Power input /W	930	1333	1768	1156	1639	954	1628
	COP / EER	5.00	3.60	2.63	3.98	2.99	4.82	2.98
	Capacity /W	6650	6700	6800	6200	6450	6450	6300
AW-WHPM07-H91	Power input /W	1348	1879	2424	1590	2164	1387	2274
	COP / EER	4.94	3.57	2.81	3.90	2.98	4.65	2.77
	Capacity /W	8600	8600	8600	7100	7500	8000	7950
AW-WHPM09-H91	Power input /W	1870	2500	3127	2034	2534	1923	3149
	COP / EER	4.60	3.44	2.75	3.49	2.96	4.16	2.53
	Capacity /W	12300	12400	11900	12200	12000	12200	10900
AW-WHPM12-H91	Power input /W	2557	3518	4281	3406	4290	2552	3739
	COP / EER	4.81	3.53	2.78	3.58	2.80	4.78	2.92
	Capacity /W	14100	14100	14200	13000	12800	14000	12900
AW-WHPM14-H91	Power input /W	3065	4063	5173	3657	4602	3101	4615
	COP / EER	4.60	3.47	2.75	3.56	2.78	4.52	2.80
	Capacity /W	16300	16200	16100	15000	13500	15500	13800
AW-WHPM16-H91	Power input /W	3663	4723	5908	4492	4913	3643	5208
	COP / EER	4.45	3.43	2.73	3.34	2.75	4.26	2.65
	Capacity /W	12300	12400	11900	12200	12000	12200	10900
AW-WHPM12-H93	Power input /W	2541	3454	4235	3351	4221	2528	3720
	COP / EER	4.84	3.59	2.81	3.64	2.84	4.83	2.93
	Capacity /W	14100	14100	14200	13000	12800	14000	12900
AW-WHPM14-H93	Power input /W	3045	3989	5099	3627	4548	3111	4615
	COP / EER	4.63	3.54	2.79	3.58	2.81	4.50	2.80
	Capacity /W	16300	16200	16100	15000	13500	15500	13800
AW-WHPM16-H93	Power input /W	3634	4702	5833	4449	4845	3634	5188
	COP / EER	4.49	3.45	2.76	3.37	2.79	4.27	2.66



