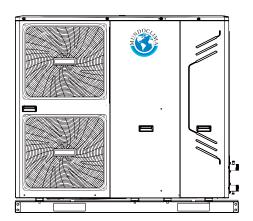


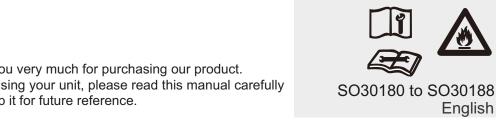
MONOBLOC AEROTHERM MAM-V9

Technical data manual









Product fiche 1

Heat pump space heater	ater	unit	MAM-5-V9M	MAM-7-V9M	MAM-9-V9M	MAM-12-V9M	MAM-14-V9M	MAM-16-V9M	MAM-12-V9T	MAM-14-V9T	MAM-16-V9T
Indoor unit sound power (*)	wer (*)	[dB(A)]	/	/	/	,	/		/	/	/
Outdoor unit sound power (*)	ower (*)	[dB(A)]	61	64	29	89	71	71	89	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 function integrated in Heat pump	nction integrated in	N/	N _O	N _O	N _O	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.)	1	A++	A++	A++	A++	A++	A++	A++	A++	A++
Average climate (De	Average climate (Design temperature= -10°C)	္ ပိ									
	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	Part load conditions space heating average climate low temperature	climate	low temperatu	re application							
	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)	-	06.0	06:0	06:0	06.0	06:0	06:0	06:0	06:0	06:0
	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)	-	06.0	06:0	06:0	06:0	06:0	06:0	06:0	06:0	06:0
	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)	-	06.0	06:0	06:0	06:0	06:0	06:0	06:0	06.0	06:0
	Pdh(declared heating capacity)	[kW]	1.03	1.03	1.55	2.23	2.23	2.47	2.23	2.23	2.47
(D) condition (12°C)	COPd (declared COP)		5.89	5.89	7.61	5.40	5.30	6.28	5.40	5.30	6.28
	Cdh(degradation coefficient)	•	06.0	06.0	06:0	06:0	06.0	06.0	06:0	06:0	0.90

Product fiche 2

Heat pump space heater	neater	unit	MAM-5-V9M	MAM-7-V9M	MAM-9-V9M	MAM-12-V9M	MAM-14-V9M	MAM-16-V9M	MAM-12-V9T	MAM-14-V9T	MAM-16-V9T
	Tol (temperature operating limit)	[]	-10	-10	-10	-10	-10	-10	-10	-10	-10
(E) Tol(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)	[]	09	09	09	09	09	09	09	09	09
	Tblv	[]	2-	<i>L</i> -	2-	<i>L</i> -	2-	<i>L</i> -	2-	2-	2-
(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
	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	00.00	1.40	3.10
Part load condition	Part load conditions space heating average climate medium temperature application	climate	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)		06.0	06:0	06:0	06:0	06:0	06:0	06:0	06:0	06:0
	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	06'0	06:0	06:0	06'0	06'0	06:0	06:0	06:0
	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)	-	06.0	06'0	0.90	06'0	06'0	06'0	06'0	06:0	06.0
	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)	COPd (declared COP)	-	4.91	4.91	5.04	4.94	5.14	5.12	4.94	5.14	5.12
	Cdh(degradation coefficient)	-	06.0	06'0	06'0	06'0	06'0	06'0	06:0	06'0	06'0
	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]	09	09	09	09	09	09	09	09	09
	Tblv	[.c]	2-	<i>L</i> -	-7	<i>L</i> -					
(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	06:0	2.10	3.40	06.0	2.10	3.40

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Heat pump space heater	er	nnit	MAM-5-V9M	MAM-7-V9M	MAM-9-V9M	MAM-12-V9M	MAM-14-V9M	MAM-16-V9M	MAM-12-V9T	MAM-14-V9T	MAM-16-V9T
Colder climate (Design temperature	mperature = -22°C)										
	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 (ns)	[%]	26	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 space heating colder climate low temperature application	ace heating colder clir	mate 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)		06:0	06:0	06.0	06:0	06:0	06.0	06:0	06:0	06.0
	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)		06:0	06:0	06.0	06:0	06:0	06.0	06:0	06:0	06.0
	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)		06:0	06:0	06:0	06:0	06:0	0.90	0.90	06:0	06.0
	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)	-	06:0	06:0	06:0	06:0	06:0	0.90	0.90	06:0	06.0
	Pdh (declared heating capacity)	[kW]	69.0	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	00.9	5.75	4.56	4.52	6.50	4.56	4.52	6.50
	Cdh(degradation coefficient)		06:0	06:0	06:0	06:0	06:0	0.90	0.90	06:0	06.0
	Tol (temperature operating limit)	[]	-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	90'6
operating limit)	COPd (declared COP)	ı	2.10	2.10	2.08	1.80	1.84	1.88	1.80	1.84	1.88
	WTOL (Heating water Operation Limit)	[့]	40	40	40	37	37	37	37	37	37
	Tblv	ပ္	-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)	ı	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]	[kW]	1.10	3.00	4.50	4.10	5.20	6.50	4.10	5.20	6.50

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Heat pump space heater	ər	unit	MAM-5-V9M	MAM-7-V9M	MAM-9-V9M	MAM-12-V9M	MAM-14-V9M	MAM-16-V9M	MAM-12-V9T	MAM-14-V9T	MAM-16-V9T
Part load conditions space heating colder climate medium temperature application	ace heating colder clir	nate r	nedium tempera	ature application	- u						
	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
	Cdh(degradation coefficient)	_	0.90	06:0	06.0	06:0	0.90	0.90	0.90	0.90	06.0
	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)	1	2.18	2.38	2.43	2.27	2.35	2.38	2.27	2.35	2.38
	Cdh(degradation coefficient)		06:0	06:0	06.0	06:0	06:0	06:0	06:0	06:0	06:0
	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)	1	2.94	3.05	3.40	2.90	3.16	3.31	2.90	3.16	3.31
	Cdh(degradation coefficient)		06:0	06:0	06.0	06'0	06:0	06.0	0.90	06:0	06.0
	Pdh (declared heating capacity)	[kW]	1.16	1.7.1	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)		06:0	06:0	06.0	06'0	06:0	06.0	06.0	06:0	06.0
	Pdh (declared heating capacity)	[kW]	0.61	0.91	06.0	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)		06:0	06:0	06:0	06'0	06:0	06.0	06.0	06:0	06:0
	Tol (temperature operating limit)	[]	-18	-18	-18	-18	-18	-18	-18	-18	-18
(E) Tol(temperature	Pdh (declared heating capacity)	[kW]	4.10	4.05	4.17	99.7	7.65	6.72	7.66	7.65	6.72
operating limit)	COPd (declared COP)	1	1.28	1.25	1.29	1.27	1.26	1.10	1.27	1.26	1.10
	WTOL (Heating water Operation Limit)	[]	44	44	44	44	44	44	44	44	44
	Tblv	[]	-15	-15	-12	-15	-14	-13	-15	-14	-13
(F) Tbivalent	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	08'9	8.70	9.60	6.80	8.70	9.60
Warmer climate (Design temperature =2°C)	n temperature =2°C)										
	Prated (declared heating capacity) @ 2°C	[kW]	2	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]	2	2	6	12	14	16	12	14	16
Space heating 55°C	Seasonal space heating efficiency (ŋs)	[%]	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

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Heat pump space heater	ər	unit	MAM-5-V9M	MAM-7-V9M	Mev-9-Wam	MAM-12-V9M	MAM-14-V9M	MAM-16-V9M	MAM-12-V9T	MAM-14-V9T	MAM-16-V9T
Part load conditions space heating warmer climate low temperature application	ace heating warmer cl	imate	low temperatur	re 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)	1	06.0	06:0	06:0	06:0	06:0	06.0	06:0	06.0	06.0
	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)	1	5.29	5.53	5.46	5.45	5.38	5.32	5.45	5.38	5.32
	Cdh(degradation coefficient)	1	06.0	06:0	06:0	06:0	06:0	06:0	06:0	06.0	06.0
	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	06:0	06:0	06.0	06:0	0.90	06:0	06:0	0.90
	Tol (temperature operating limit)	[]	2	2	2	2	2	2	2	2	2
(E) Tol(temperature operating limit)	Pdh (declared heating capacity)	[kW]	4.80	92.9	7.58	12.03	14.13	15.25	12.03	14.13	15.25
	COPd (declared COP)	1	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	09	09	09	09	09	09	09	09
(F) Thivalent	Tblv	[]	7	2	2	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 space heating warmer climate medium temperature application	ace heating warmer cl	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)	1	0.90	06:0	06:0	06:0	06:0	06.0	0.90	06:0	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	06.0	06:0	06.0	06:0	06.0	06:0	06:0	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	06:0	06:0	06.0	06:0	0.90	0.90	06:0	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)	[]	09	09	09	09	09	09	09	09	09

Product fiche 6

Heat pump space heater	ater	nnit	MAM-5-V9M	MAM-7-V9M	MAM-9-V9M	MAM-12-V9M	MAM-14-V9M	MAM-16-V9M	MAM-12-V9T	MAM-14-V9T	MAM-16-V9T
(F) Thivalent		[]	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 Psup (@Tdesignh:2°C) at P_design		[kW]	0.00	0.00	00:00	00.00	0.10	1.60	00.0	0.10	1.60
Ecodesign technical data	data										
	Air-to-water heat pump	N/Y	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	Water-to-water heat pump	N/Y	No	No	No	No	No	No	No	No	No
acitairond to boro	0	N/Y	No	No	No	No	No	No	No	No	No
בוסמת מפסר מסמר מפסר מ	Low-temperature heat pump	N/	No	No	No	No	No	No	No	N _o	No
		N/Y	No	No	No	Yes	Yes	Yes	Yes	Yes	Yes
	Heat pump combination heater	Y/N	No	No	No	No	No	No	No	No	No
Air to water unit	Rated airflow (outdoor)	[m ³ /h]	3050	3050	3050	6150	6150	6150	6150	6150	6150
Brine/water to water unit coutdoor H/E) (outdoor H/E)		[m ₃ /h]	/	/	/	/	1	/	/	/	/
	Capacity control		Inverter	Inverter	Inverter	Inverter	Inverter	Inverter	Inverter	Inverter	Inverter
		[kW]	0.009	0.009	600.0	600.0	0.009	0.009	0.009	600.0	0.009
		[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	600.0	600.0	0.009	0.009	0.009	600.0	0.009
	(I)	[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	/	/	/
	Qfuel (Daily fuel consumption)	[kWh]	/	/	1	1	1	1	1	/	/

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

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

		Tech	nical	parameters			
Model(s):				MAM-5-V9M			
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 heate	r:			NO			
Heat pump combination heater:				NO			
Declared climate condition:				AVERAGE			
Parameters are declared for medium-	emperature	application					
Item	Symbol	Value	Unit	Item	Symbol	Value	Uni
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	t indoor temp	perature 20 °C		Declared coefficient of performance or primindoor temperature 20 °C and outdoor te			ad at
Tj = -7℃	Pdh	5.8	kW	Tj = -7℃	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℃	Pdh	1.3	kW	Tj = 12℃	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 ℃	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	0.7	
Standby mode	Psb	0.009	kW	Rated Heat Output ()	rsup	0.7	kW
Thermostat-off mode	Pto	0.006	kW	Type of energy input		Electrical	
Crankcase heater mode	Pck	0.000	kW	Type or energy input		Lioumou	
Other items							
Capacity control		variable		For air-to-water heat pumps: Rated air flow rate, outdoors	-	3050	m ³ /h
Sound power level, indoors/outdoors	L _{WA}	-/61	dB	For water-or brine-to-water heat pumps: Rated brine or water flow rate, outdoor	-	-	m ³ /h
Annual energy consumption	Q _{HE}	4203	kWh	heat exchanger			
For heat pump combination heater:				į.			
Declared load profile		-		Water heating energy efficiency	η _{wh}	-	%
Daily electricity consumption	Q _{clec}	-	kWh	Daily fuel consumption	Q _{fuel}	-	kWl
Annual electricity consumption	AEC	-	kWh	Annual fuel consumption	AFC	-	GJ
Contact details		R ESCODA S/ 392 P2 08025		ONA (SPAIN)			

^(*) 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.

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Model(s):				MAM-5-V9M			
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	er:			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	4.7	kW	Seasonal space heating energy efficiency	ηs	97	%
Declared capacity for heating for part load and outdoor temperature Tj		perature 20 °C	;	Declared coefficient of performance or prim indoor temperature 20 °C and outdoor te	ary energy ra		ad at
Tj = -7℃	Pdh	3.0	kW	Tj = -7℃	COPd	2.18	-
Tj = 2 °C	Pdh	1.8	kW	Tj = 2℃	COPd	2.94	-
Tj = 7 °C	Pdh	1.2	kW	Tj = 7℃	COPd	3.57	-
Tj = 12℃	Pdh	0.6	kW	Tj = 12°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 °C	Pdh	3.9	kW	For air-to-water heat pumps: Tj = -15°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 a	ctive mode			Supplementary heater			
Off mode	Poff	0.009	kW	D-4-d l444 (**)			
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	Type of energy input			
Other items							
Capacity control		variable		For air-to-water heat pumps: Rated air flow rate, outdoors	-	3050	m ³ /h
Sound power level, indoors/outdoors	L _{WA}	-/61	dB	For water-or brine-to-water heat pumps: Rated brine or water flow rate, outdoor	-	-	m³/h
Annual energy consumption	Q _{HE}	4661	kWh	heat exchanger			
For heat pump combination heater:							
Declared load profile		-		Water heating energy efficiency	η _{wh}	-	%
Daily electricity consumption	Q _{clec}	-	kWh	Daily fuel consumption	Q _{fuel}	-	kW
Annual electricity consumption	AEC	-	kWh	Annual fuel consumption	AFC	-	GJ
· · · · · · · · · · · · · · · · · · ·	1			1			

^(*) 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.

Model(s):				MAM-5-V9M							
Air-to-water heat pump:				YES							
Water-to-water heat pump:				NO							
Brine-to-water heat pump:			NO								
Low-temperature heat pump:			NO NO								
Equipped with a supplementary heate	er;			NO							
Heat pump combination heater:				NO							
Declared climate condition:				WARMER							
Parameters are declared for medium-	temperature	application	1.								
Turdinotoro dio dostaroa for me allami	tomperate	- аррисален	·								
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											
Tj = -7℃	Pdh	-	kW	Tj = -7℃	COPd		-				
Tj = 2 °C	Pdh	4.7	kW	Tj = 2℃	COPd	2.27	-				
	Pdh	2.9	kW	Tj = 7°C	COPd	3.10	-				
Tj = 12℃	Pdh	1.5	kW	Tj = 12 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 °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	ctive mode			Supplementary heater							
Off mode	Poff	0.009	kW								
Standby mode	Psb	0.009	kW	Rated heat output (**)	Psup	0.0	kW				
Thermostat-off mode	Pto	0.009	kW	T							
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	m ³ /h				
Sound power level, indoors/outdoors	L _{WA}	-/61	dB	For water-or brine-to-water heat pumps: Rated brine or water flow rate, outdoor	_	_	m ³ /h				
Annual energy consumption	Q _{HE}	1683	kWh	heat exchanger							
For heat pump combination heater:											
Declared load profile		-		Water heating energy efficiency	η _{wh}	-	%				
Daily electricity consumption	Q _{clec}	-	kWh	Daily fuel consumption	Q _{fuel}	-	kW				
Annual electricity consumption	AEC	-	kWh	Annual fuel consumption	AFC	-	GJ				
							_				
Contact details		R ESCODA SA 392 P2 08025		DNA (SPAIN)							

Model(s):				MAM-7-V9M							
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 heate	r:			NO							
Heat pump combination heater:				NO							
Declared climate condition:				AVERAGE							
Parameters are declared for medium-	temperature	application	١.								
Item	Symbol	Value	Unit	Item	Symbol	Value	Uı				
Rated heat output (*)	Prated	6.6	kW	Seasonal space heating energy efficiency	ηs	127	%				
Declared capacity for heating for part load and outdoor temperature Tj	at indoor temp	perature 20 °C		Declared coefficient of performance or primindoor temperature 20 °C and outdoor tell			ad at				
Tj = -7℃	Pdh	5.8	kW	Tj = -7℃	COPd	1.97					
Tj = 2℃	Pdh	3.7	kW	Tj = 2℃	COPd	3.22	_				
Tj = 7℃	Pdh	2.5	kW	Tj = 7℃	COPd	4.21	-				
Tj = 12℃	Pdh	1.3	kW	Tj = 12℃	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 °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	۰				
Cycling interval capacity for heating	Pcych	-	kW	Cycling interval efficiency	COPcyc	-					
Degradation co-efficient (**)	Cdh	0.9		Heating water operating limit temperature	WTOL	60	۰				
Power consumption in modes other than a	ctive mode			Supplementary heater							
Off mode	Poff	0.009	kW	Detail be at autout (**)	_						
Standby mode	Psb	0.009	kW	Rated heat output (**)	Psup	0.7	k'				
Thermostat-off mode	Pto	0.006	kW	Type of energy input		Electrical					
Crankcase heater mode	Pck	0.000	kW	Type of energy input		Liectrical					
Other items											
Capacity control		variable		For air-to-water heat pumps: Rated air flow rate, outdoors	-	3050	m ³				
Sound power level, indoors/outdoors	L _{WA}	-/64	dB	For water-or brine-to-water heat pumps: Rated brine or water flow rate, outdoor	-	-	m ³				
Annual energy consumption	Q _{HE}	4203	kWh	heat exchanger							
For heat pump combination heater:											
Declared load profile		-		Water heating energy efficiency	η_{wh}	-	(
Daily electricity consumption	Q _{clec}	-	kWh	Daily fuel consumption	Q _{fuel}	-	k\				
Annual electricity consumption	AEC	-	kWh	Annual fuel consumption	AFC	-	(
Contact details		R ESCODA SA 392 P2 08025		ONA (SPAIN)							

Model(s):				MAM-7-V9M					
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	er:			NO					
Heat pump combination heater:				NO					
Declared climate condition:				COLDER					
Parameters are declared for medium-	temperature	application							
		V 1	11.2		0	V-L			
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit		
Rated heat output (*) Declared capacity for heating for part load	Prated at indoor tem	6.6 perature 20 °C	kW C	Seasonal space heating energy efficiency Declared coefficient of performance or prim			ad at		
and outdoor temperature Tj				indoor temperature 20 °C and outdoor te					
Tj = -7 ℃	Pdh	4.2	kW	Tj = -7 C	COPd	2.38	-		
Tj = 2°C	Pdh	2.7	kW	Tj = 2℃	COPd	3.05	-		
Tj = 7°C	Pdh	1.7	kW	Tj = 7℃	COPd	4.16	-		
Tj = 12 C	Pdh	0.9	kW	Tj = 12℃	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	ctive mode			Supplementary heater					
Off mode	Poff	0.009	kW	Rated heat output (**)	P _{sup}	4.6	kW		
Standby mode	Psb	0.009	kW	Nated Heat Output ()	i sup	4.0	KVV		
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 _{WA}	-/64	dB	For water-or brine-to-water heat pumps: Rated brine or water flow rate, outdoor	_	-	m³/h		
Annual energy consumption	Q _{HE}	6136	kWh	heat exchanger					
For heat pump combination heater:									
Declared load profile		-		Water heating energy efficiency	η _{wh}	-	%		
Daily electricity consumption	Q _{clec}	-	kWh	Daily fuel consumption	Q _{fuel}	-	kWł		
Annual electricity consumption	AEC	-	kWh	Annual fuel consumption	AFC	-	GJ		
	SALVADOF	2 5000004 0							

^(*) 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.

Model(s):				MAM-7-V9M							
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 heate	er:			NO							
Heat pump combination heater:				NO							
Declared climate condition:				WARMER							
Parameters are declared for medium	-temperature	application	١.								
Item	Symbol	Value	Unit	Item	Symbol	Value	Un				
Rated heat output (*)	Prated	6.6	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 primindoor temperature 20 °C and outdoor temperature 20 °			ad at				
Tj = -7 °C	Pdh	-	kW	Tj = -7℃	COPd	-	-				
Tj = 2°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℃	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 °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 a	ctive mode			Supplementary heater							
Off mode	Poff	0.009	kW	Dated boot sutrait (**)							
Standby mode	Psb	0.009	kW	Rated heat output (**)	Psup	0.0	kW				
Thermostat-off mode	Pto	0.006	kW	Type of energy input		_					
Crankcase heater mode	Pck	0.000	kW	Type of chargy input							
Other items											
Capacity control		variable		For air-to-water heat pumps: Rated air flow rate, outdoors	-	3050	m ³ /h				
Sound power level, indoors/outdoors	L _{WA}	-/64	dB	For water-or brine-to-water heat pumps: Rated brine or water flow rate, outdoor	-	-	m ³ /h				
Annual energy consumption	Q _{HE}	2255	kWh	heat exchanger							
For heat pump combination heater:											
Declared load profile		-		Water heating energy efficiency	η _{wh}	-	%				
Daily electricity consumption	Q _{clec}	-	kWh	Daily fuel consumption	Q _{fuel}	-	kW				
Annual electricity consumption	AEC	-	kWh	Annual fuel consumption	AFC	-	G.				
Contact details		R ESCODA S 392 P2 08025		DNA (SPAIN)							

				parameters						
Model(s):				MAM-9-V9M						
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 heate	r:			NO						
Heat pump combination heater:				NO						
Declared climate condition:				AVERAGE						
Parameters are declared for medium-	temperature	application								
Item	Symbol	Value	Unit	Item	Symbol	Value	Un			
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		perature 20 °C	;	Declared coefficient of performance or prim indoor temperature 20 °C and outdoor temperature 20	ary energy ra	itio for part loa	ad at			
Tj = -7℃	Pdh	6.6	kW	Tj = -7℃	COPd	1.87	-			
Tj = 2 °C	Pdh	4.3	kW	Tj = 2℃	COPd	3.19	-			
Tj = 7°C	Pdh	2.8	kW	Tj = 7℃	COPd	4.38	-			
Tj = 12℃	Pdh	1.3	kW	Tj = 12 °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 °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	Poted host sutput (**)	Psup	4.0				
Standby mode	Psb	0.009	kW	Rated heat output (**)	Psup	1.8	kW			
Thermostat-off mode	Pto	0.010	kW	Type of energy input		Electrical				
Crankcase heater mode	Pck	0.000	kW	Type of energy input		Licotrical				
Other items										
Capacity control		variable		For air-to-water heat pumps: Rated air flow rate, outdoors	-	3050	m³/ł			
Sound power level, indoors/outdoors	L _{WA}	-/67	dB	For water-or brine-to-water heat pumps: Rated brine or water flow rate, outdoor	-	-	m ³ /l			
Annual energy consumption	Q _{HE}	4770	kWh	heat exchanger						
For heat pump combination heater:										
Declared load profile		-		Water heating energy efficiency	η _{wh}	-	%			
Daily electricity consumption	Q _{clec}	-	kWh	Daily fuel consumption	Q _{fuel}	-	kW			
Annual electricity consumption	AEC	-	kWh	Annual fuel consumption	AFC	-	G.			
Contact details	SALVADOF	R ESCODA SA	4							

^(*) 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.

		i ecii	····oai	parameters							
Model(s):				MAM-9-V9M							
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	er:			NO							
Heat pump combination heater:				NO							
Declared climate condition:				COLDER							
Parameters are declared for medium-	temperature	application									
Item	Symbol	Value	Unit	Item	Symbol	Value	Un				
Rated heat output (*)	Prated	8.2	kW	Seasonal space heating energy efficiency	ηs	109	%				
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 tell			ad at				
Tj = -7℃	Pdh	5.4	kW	Tj = -7℃	COPd	2.43	-				
Tj = 2 °C	Pdh	3.3	kW	Tj = 2℃	COPd	3.40	-				
Tj = 7 °C	Pdh	2.2	kW	Tj = 7℃	COPd	4.59	-				
Tj = 12℃	Pdh	0.9	kW	Tj = 12°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℃	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 a	ctive mode			Supplementary heater							
Off mode	Poff	0.009	kW	Dated heat autout (**)	Б		l				
Standby mode	Psb	0.009	kW	Rated heat output (**)	Psup	6.3	kV				
Thermostat-off mode	Pto	0.010	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	m ³ /l				
Sound power level, indoors/outdoors	L _{WA}	-/67	dB	For water-or brine-to-water heat pumps: Rated brine or water flow rate, outdoor	-	-	m³/l				
Annual energy consumption	Q _{HE}	7286	kWh	heat exchanger							
For heat pump combination heater:											
Declared load profile		-		Water heating energy efficiency	η _{wh}	-	%				
Daily electricity consumption	Q _{clec}	-	kWh	Daily fuel consumption	Q _{fuel}	-	kW				
Annual electricity consumption	AEC	-	kWh	Annual fuel consumption	AFC	-	G.				
Contact details	SALVADOR	R ESCODA SA	Δ	·							

^(*) 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.

Model(s):				MAM-9-V9M							
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 heate	r:			NO							
Heat pump combination heater:				NO							
Declared climate condition:				WARMER							
Parameters are declared for medium-	temperature	application	1.								
ltem	Symbol	Value	Unit	Item	Symbol	Value	Un				
Rated heat output (*)	Prated	8.6	kW	Seasonal space heating energy efficiency	ηs	164	%				
Declared capacity for heating for part load and outdoor temperature Tj	at indoor temp	oerature 20 °C		Declared coefficient of performance or primindoor temperature 20 °C and outdoor 20 °			ad at				
Tj = -7 ℃	Pdh	-	kW	Tj = -7 °C	COPd	-	-				
Tj = 2℃	Pdh	8.6	kW	Tj = 2°C	COPd	2.15	-				
Tj = 7℃	Pdh	5.6	kW	Tj = 7℃	COPd	3.43	-				
Tj = 12℃	Pdh	2.6	kW	Tj = 12℃	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 °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 a	ctive mode			Supplementary heater							
Off mode	Poff	0.009	kW	Detail head autout (**)							
Standby mode	Psb	0.009	kW	Rated heat output (**)	Psup	0.0	kV				
Thermostat-off mode	Pto	0.010	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	m ³ /				
Sound power level, indoors/outdoors	L _{WA}	-/67	dB	For water-or brine-to-water heat pumps: Rated brine or water flow rate, outdoor	-	-	m ³ /				
Annual energy consumption	Q _{HE}	2774	kWh	heat exchanger							
For heat pump combination heater:											
Declared load profile		-		Water heating energy efficiency	η _{wh}	-	9				
Daily electricity consumption	Q _{clec}	-	kWh	Daily fuel consumption	Q _{fuel}	-	kV				
Annual electricity consumption	AEC	-	kWh	Annual fuel consumption	AFC	-	G				
Contact details		R ESCODA SA		ONA (SPAIN)							

Model(s):				MAM-12-V9M						
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 heate	er:			NO						
Heat pump combination heater:				NO						
Declared climate condition:				AVERAGE						
Parameters are declared for medium	-temperature	application	١.							
Item	Symbol	Value	Unit	Item	Symbol	Value	Uni			
Rated heat output (*)	Prated	12.8	kW	Seasonal space heating energy efficiency	ηѕ	126	%			
Declared capacity for heating for part load and outdoor temperature Tj	at indoor temp	perature 20 °C	Declared coefficient of performance or primary energy ratio for part indoor temperature 20 °C and outdoor temperature Tj							
Tj = -7℃	Pdh	11.3	kW	Tj = -7°C	COPd	2.05	-			
Tj = 2 °C	Pdh	7.3	kW	Tj = 2℃	COPd	3.14	-			
Tj = 7℃	Pdh	5.0	kW	Tj = 7℃	COPd	4.25	-			
Tj = 12°C	Pdh	2.4	kW	Tj = 12℃	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 °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 a	ctive mode			Supplementary heater						
Off mode	Poff	0.009	kW	Detail head autout (**)	_					
Standby mode	Psb	0.009	kW	Rated heat output (**)	Psup	0.9	kW			
Thermostat-off mode	Pto	0.015	kW	Type of energy input	Flo	-4-111141-	_			
Crankcase heater mode	Pck	0.000	kW	Type of chargy input	Elec	ctrical Heatin	<u> </u>			
Other items							_			
Capacity control		variable		For air-to-water heat pumps: Rated air flow rate, outdoors	-	6150	m ³ /h			
Sound power level, indoors/outdoors	L _{WA}	-/68	dB	For water-or brine-to-water heat pumps: Rated brine or water flow rate, outdoor	-	-	m ³ /h			
Annual energy consumption	Q _{HE}	8164	kWh	heat exchanger						
For heat pump combination heater:										
Declared load profile		-		Water heating energy efficiency	η _{wh}	-	%			
Daily electricity consumption	Q _{clec}	-	kWh	Daily fuel consumption	Q _{fuel}	-	kW			
Annual electricity consumption	AEC	-	kWh	Annual fuel consumption	AFC	-	GJ			
Contact details		R ESCODA S 392 P2 08025		DNA (SPAIN)						

Model(s):				MAM-12-V9M				
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	er:			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	ηѕ	96	%	
Declared capacity for heating for part load 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℃	Pdh	7.3	kW	Tj = -7℃	COPd	2.27	-	
Tj = 2 °C	Pdh	4.5	kW	Tj = 2 °C	COPd	2.90	-	
Tj = 7 °C	Pdh	2.9	kW	Tj = 7 °C	COPd	3.96	-	
Tj = 12℃	Pdh	1.4	kW	Tj = 12℃	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 °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 a	ctive mode			Supplementary heater				
Off mode	Poff	0.009	kW	5				
Standby mode	Psb	0.009	kW	Rated heat output (**)	Psup	6.8	kW	
Thermostat-off mode	Pto	0.015	kW	Time of anomal input				
Crankcase heater mode	Pck	0.000	kW	Type of energy input	Ele	ctrical Heatin	g 	
Other items								
Capacity control		variable		For air-to-water heat pumps: Rated air flow rate, outdoors	-	6150	m ³ /h	
Sound power level, indoors/outdoors	L _{WA}	-/68	dB	For water-or brine-to-water heat pumps: Rated brine or water flow rate, outdoor	-	-	m³/h	
Annual energy consumption	Q _{HE}	12299	kWh	heat exchanger				
For heat pump combination heater:								
Declared load profile		-		Water heating energy efficiency	η _{wh}	-	%	
Daily electricity consumption	Q _{clec}	-	kWh	Daily fuel consumption	Q _{fuel}	-	kWI	
Annual electricity consumption	AEC	-	kWh	Annual fuel consumption	AFC	-	GJ	
· · · · · · · · · · · · · · · · · · ·	1			I				

^(*) 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.

Model(s):				MAM-12-V9M					
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 heat	er:			NO					
Heat pump combination heater:				NO					
Declared climate condition:				WARMER					
Parameters are declared for medium	temperature	e application							
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit		
Rated heat output (*)	Prated	11.8	kW	Seasonal space heating energy efficiency	ηѕ	148	%		
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	Tj = -7℃	COPd	-	-		
Tj = 2 °C	Pdh	11.9	kW	Tj = 2 °C	COPd	2.18	-		
Tj = 7 °C	Pdh	7.6	kW	Tj = 7 °C	COPd	3.08	-		
Tj = 12℃	Pdh	3.5	kW	Tj = 12℃	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 °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 a	ctive mode			Supplementary heater					
Off mode	Poff	0.009	kW	- · · · · · · · · · · · · · · · · · · ·					
Standby mode	Psb	0.009	kW	Rated heat output (**)	Psup	0.0	kW		
Thermostat-off mode	Pto	0.015	kW	Type of analysis input					
Crankcase heater mode	Pck	0.000	kW	Type of energy input	Ele	ctrical Heatin	g 		
Other items									
Capacity control		variable		For air-to-water heat pumps: Rated air flow rate, outdoors	-	6150	m ³ /h		
Sound power level, indoors/outdoors	L _{WA}	-/68	dB	For water-or brine-to-water heat pumps: Rated brine or water flow rate, outdoor	-	-	m ³ /h		
Annual energy consumption	Q _{HE}	4207	kWh	heat exchanger					
For heat pump combination heater:									
Declared load profile		-		Water heating energy efficiency	η _{wh}	-	%		
Daily electricity consumption	Q _{clec}	-	kWh	Daily fuel consumption	Q _{fuel}	-	kWl		
Annual electricity consumption	AEC	-	kWh	Annual fuel consumption	AFC	-	GJ		
				•	•		•		

^(*) 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.

		Tech	nıcai	parameters						
Model(s):				MAM-14-V9M						
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 heate	r:			NO						
Heat pump combination heater:				NO						
Declared climate condition:				AVERAGE						
Parameters are declared for medium-	temperature	application								
Item	Symbol	Value	Unit	Item	Symbol	Value	Un			
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				Declared coefficient of performance or primindoor temperature 20 °C and outdoor temperature 20 °	ary energy ra	tio for part lo				
Tj = -7℃	Pdh	12.2	kW	Tj = -7℃	COPd	2.05	-			
Tj = 2°C	Pdh	7.8	kW	Tj = 2℃	COPd	3.18	-			
Tj = 7°C	Pdh	5.2	kW	Tj = 7℃	COPd	4.29	-			
Tj = 12 °C	Pdh	2.6	kW	Tj = 12°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 °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		_					
Standby mode	Psb	0.009	kW	Rated heat output (**)	Psup	2.1	kW			
Thermostat-off mode	Pto	0.026	kW	Time of anomy input						
Crankcase heater mode	Pck	0.000	kW	Type of energy input	Ele	ctrical Heating	3			
Other items										
Capacity control		variable		For air-to-water heat pumps: Rated air flow rate, outdoors	-	6150	m ³ /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	-	-	m ³ /l			
Annual energy consumption	Q _{HE}	8724	kWh	heat exchanger						
For heat pump combination heater:										
Declared load profile		-		Water heating energy efficiency	η _{wh}	-	%			
Daily electricity consumption	Q _{clec}	-	kWh	Daily fuel consumption	Q _{fuel}	-	kW			
Annual electricity consumption	AEC	-	kWh	Annual fuel consumption	AFC	-	G			
Contact details		R ESCODA SA 392 P2 08025		ONA (ODAIN)			_			

^(*) 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.

Model(s):				MAM-14-V9M					
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 heate	r:			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 temp	perature 20 °C	;	Declared coefficient of performance or primindoor temperature 20 °C and outdoor te	ary energy ra		ad at		
Tj = -7℃	Pdh	8.9	kW	Tj = -7 °C	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 ℃	COPd	4.10	-		
Tj = 12℃	Pdh	1.4	kW	Tj = 12℃	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 °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 ac	tive mode			Supplementary heater					
Off mode	Poff	0.009	kW	Pated heat output (**)	Psup	0.7			
Standby mode	Psb	0.009	kW	Rated heat output (**)	rsup	8.7	kW		
Thermostat-off mode	Pto	0.026	kW	Type of energy input	Гю	atrical Heatin	_		
Crankcase heater mode	Pck	0.000	kW	Type of onergy input	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 _{WA}	-/71	dB	For water-or brine-to-water heat pumps: Rated brine or water flow rate, outdoor	-	-	m ³ /h		
Annual energy consumption	Q _{HE}	13449	kWh	heat exchanger					
For heat pump combination heater:									
Declared load profile		-		Water heating energy efficiency	η _{wh}	-	%		
Daily electricity consumption	Q _{clec}	-	kWh	Daily fuel consumption	Q _{fuel}	-	kWl		
Annual electricity consumption	AEC	-	kWh	Annual fuel consumption	AFC	-	GJ		
Contact details	SALVADOF	R ESCODA SA	4						

^(*) 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.

Model(s):				MAM-14-V9M							
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 heate	r:			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 primindoor temperature 20 °C and outdoor te			ad at				
Tj = -7℃	Pdh	-	kW	Tj = -7℃	COPd	-	-				
Tj = 2 °C	Pdh	13.8	kW	Tj = 2℃	COPd	2.17	-				
Tj = 7 °C	Pdh	9.0	kW	Tj = 7℃	COPd	3.18	-				
Tj = 12˚C	Pdh	4.2	kW	Tj = 12°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 °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	D-4-d b444 (**)	_						
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	Type or energy input	Elec	ctrical Heatin	g 				
Other items											
Capacity control		variable		For air-to-water heat pumps: Rated air flow rate, outdoors	-	6150	m ³ /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}	4746	kWh	heat exchanger							
For heat pump combination heater:											
Declared load profile		-		Water heating energy efficiency	η _{wh}	-	%				
Daily electricity consumption	Q _{clec}	-	kWh	Daily fuel consumption	Q _{fuel}	-	kWl				
Annual electricity consumption	AEC	-	kWh	Annual fuel consumption	AFC	-	GJ				
Contact details	SALVADOF	R ESCODA SA	\ \								

^(*) 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.

Model(s):				MAM-16-V9M							
Air-to-water heat pump:			YES								
Water-to-water heat pump:			NO NO								
Brine-to-water heat pump:			NO								
.ow-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	l.								
Item	Symbol	Value	Unit	Item	Symbol	Value	Uni				
Rated heat output (*)	Prated	14.6	kW	Seasonal space heating energy efficiency	ηs	128	%				
Declared capacity for heating for part load and outdoor temperature Tj	at indoor tem	perature 20 °C	Declared coefficient of performance or primary energy ratio for part load 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	-				
Tj = 7°C	Pdh	5.5	kW	Tj = 7°C	COPd	4.32	-				
Tj = 12 °C	Pdh	2.6	kW	Tj = 12℃	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 °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 a	ctive 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	Ele	ctrical Heatin	g 				
Other items											
Capacity control		variable		For air-to-water heat pumps: Rated air flow rate, outdoors	-	6150	m ³ /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	-	-	m ³ /h				
Annual energy consumption	Q _{HE}	9216	kWh	heat exchanger							
For heat pump combination heater:											
Declared load profile		-		Water heating energy efficiency	η_{wh}	-	%				
Daily electricity consumption	Q _{clec}	-	kWh	Daily fuel consumption	Q _{fuel}	-	kW				
Annual electricity consumption	AEC	-	kWh	Annual fuel consumption	AFC	-	GJ				
Contact details		R ESCODA SA 392 P2 08025		ONA (SPAIN)							

				parameters						
Model(s):				MAM-16-V9M						
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 heate	r:			NO						
Heat pump combination heater:				NO						
Declared climate condition:				COLDER						
Parameters are declared for medium-	temperature	application								
			11.77							
Item Control of the C	Symbol	Value	Unit	Item	Symbol	Value	Unit			
Rated heat output (*) Declared capacity for heating for part load a and outdoor temperature Ti	Prated at indoor temp	15.2 perature 20 °C	kW	Seasonal space heating energy efficiency Declared coefficient of performance or primindoor temperature 20 °C and outdoor temperature 20 °C.	ary energy ra	ry energy ratio for part load a				
Tj = -7°C	Pdh	9.6	kW	Tj = -7°C	COPd	2.38	_			
Tj = 2°C	Pdh	5.6	kW	Tj = 2°C	COPd	3.31	-			
Tj = 7°C	Pdh	4.0	kW	Tj = 7℃	COPd	4.47	-			
Tj = 12°C	Pdh	1.9	kW	Tj = 12℃	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 °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	<u> </u>					
Off mode	Poff	0.009	kW	Rated heat output (**)	D.	0.0				
Standby mode	Psb	0.009	kW	Rated heat output ()	Psup	9.6	kW			
Thermostat-off mode	Pto	0.041	kW	Type of energy input	ГІо	atrical Haatin	_			
Crankcase heater mode	Pck	0.000	kW	Type or chargy input	Ele	ctrical Heatin	9			
Other items										
Capacity control		variable		For air-to-water heat pumps: Rated air flow rate, outdoors	-	6150	m ³ /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	-	-	m ³ /h			
Annual energy consumption	Q _{HE}	13768	kWh	heat exchanger						
For heat pump combination heater:										
Declared load profile		-		Water heating energy efficiency	η _{wh}	-	%			
Daily electricity consumption	Q _{clec}	-	kWh	Daily fuel consumption	Q _{fuel}	-	kWl			
Annual electricity consumption	AEC	-	kWh	Annual fuel consumption	AFC	-	GJ			
Contact details	SALVADOF	R ESCODA SA	Α							

^(*) 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.

		Tech	nical	parameters							
Model(s):				MAM-16-V9M							
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 heate	r:			NO							
Heat pump combination heater:				NO							
Declared climate condition:				WARMER							
Parameters are declared for medium-	temperature	application									
Item	Symbol	Value	Unit	Item	Symbol	Value	Ur				
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		perature 20 °C	;	Declared coefficient of performance or primindoor temperature 20 °C and outdoor te	ry energy ratio for part load a						
Tj = -7°C	Pdh	-	kW	Tj = -7℃	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℃	Pdh	4.8	kW	Tj = 12℃	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 °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 (**)	P _{sup}	1.6	l kV				
Standby mode	Psb	0.009	kW	Nated Heat Sulput ()	1 Sup	1.0	KV				
Thermostat-off mode	Pto	0.041	kW	Type of energy input	Fle	ctrical Heating	a				
Crankcase heater mode	Pck	0.000	kW		Lio		9				
Other items											
Capacity control		variable		For air-to-water heat pumps: Rated air flow rate, outdoors	-	6150	m ³ /				
Sound power level, indoors/outdoors	L _{WA}	-/71	dB	For water-or brine-to-water heat pumps: Rated brine or water flow rate, outdoor	-	-	m ³ /				
Annual energy consumption	Q _{HE}	5367	kWh	heat exchanger							
For heat pump combination heater:											
Declared load profile		-		Water heating energy efficiency	η _{wh}	-	%				
Daily electricity consumption	Q _{clec}	-	kWh	Daily fuel consumption	Q _{fuel}	-	kV				
Annual electricity consumption	AEC	-	kWh	Annual fuel consumption	AFC	-	G.				
Contact details		R ESCODA SA		ONA (SPAIN)							

^(*) 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.

Model(s):				MAM-12-V9T							
Air-to-water heat pump:			YES								
Water-to-water heat pump:			NO NO								
Brine-to-water heat pump:			NO								
Low-temperature heat pump:				NO							
Equipped with a supplementary heate	er:			NO							
Heat pump combination heater:				NO							
Declared climate condition:				AVERAGE							
Parameters are declared for medium	-temperature	e application	١.								
		.,,	11.29	16	O. mahad	Wil i					
Item	Symbol	Value	Unit	Item	Symbol	Value	Uni				
Rated heat output (*)	Prated	12.8	kW	Seasonal space heating energy efficiency	ηѕ	126	%				
Declared capacity for heating for part load and outdoor temperature Tj	at indoor tem	perature 20 °C	٠	Declared coefficient of performance or prima indoor temperature 20 °C and outdoor 20			ad at				
Tj = -7 ℃	Pdh	11.3	kW	Tj = -7°C	COPd	2.05	-				
Tj = 2 °C	Pdh	7.3	kW	Tj = 2°C	COPd	3.14	-				
Tj = 7 °C	Pdh	5.0	kW	Tj = 7 °C	COPd	4.25	-				
Tj = 12℃	Pdh	2.4	kW	Tj = 12℃	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 °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 a	ctive mode			Supplementary heater							
Off mode	Poff	0.009	kW	Detect heat quitaut (**)	_						
Standby mode	Psb	0.009	kW	Rated heat output (**)	Psup	0.9	kW				
Thermostat-off mode	Pto	0.015	kW	Type of energy input	El.	-4-111141-	_				
Crankcase heater mode	Pck	0.000	kW	Type of chargy input	Elec	ctrical Heatin	g 				
Other items											
Capacity control		variable		For air-to-water heat pumps: Rated air flow rate, outdoors	-	6150	m ³ /h				
Sound power level, indoors/outdoors	L _{WA}	-/68	dB	For water-or brine-to-water heat pumps: Rated brine or water flow rate, outdoor	-	-	m³/ł				
Annual energy consumption	Q _{HE}	8164	kWh	heat exchanger							
For heat pump combination heater:											
Declared load profile		-		Water heating energy efficiency	η _{wh}	-	%				
Daily electricity consumption	Q _{clec}	-	kWh	Daily fuel consumption	Q _{fuel}	-	kW				
Annual electricity consumption	AEC	-	kWh	Annual fuel consumption	AFC	-	GJ				
Contact details		R ESCODA SA 392 P2 08025		ONA (SPAIN)							

Model(s):				MAM-12-V9T							
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	er:			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 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℃	Pdh	7.3	kW	Tj = -7℃	COPd	2.27	-				
Tj = 2 °C	Pdh	4.5	kW	Tj = 2 °C	COPd	2.90	-				
Tj = 7 °C	Pdh	2.9	kW	Tj = 7 °C	COPd	3.96	-				
Tj = 12℃	Pdh	1.4	kW	Tj = 12℃	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 a	ctive mode			Supplementary heater							
Off mode	Poff	0.009	kW	Poted heat output (**)	Psup	0.0					
Standby mode	Psb	0.009	kW	Rated heat output (**)	rsup	6.8	kW				
Thermostat-off mode	Pto	0.015	kW	Type of energy input	ГІо	atriaal Haatin	_				
Crankcase heater mode	Pck	0.000	kW	Type of onergy input	Ele	ctrical Heatin	g 				
Other items											
Capacity control		variable		For air-to-water heat pumps: Rated air flow rate, outdoors	-	6150	m ³ /h				
Sound power level, indoors/outdoors	L _{WA}	-/68	dB	For water-or brine-to-water heat pumps: Rated brine or water flow rate, outdoor	-	-	m³/h				
Annual energy consumption	Q _{HE}	12299	kWh	heat exchanger							
For heat pump combination heater:											
Declared load profile		-		Water heating energy efficiency	η _{wh}	-	%				
Daily electricity consumption	Q _{clec}	-	kWh	Daily fuel consumption	Q _{fuel}	-	kW				
Annual electricity consumption	AEC	-	kWh	Annual fuel consumption	AFC	-	GJ				
	•			•	•						

^(*) 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.

		recn	nicai	parameters					
Model(s):				MAM-12-V9T					
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 heate	r:			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	11.8	kW	Seasonal space heating energy efficiency	ηs	148	%		
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℃	COPd	-	-		
Tj = 2 °C	Pdh	11.9	kW	Tj = 2 °C	COPd	2.18	-		
Tj = 7 °C	Pdh	7.6	kW	Tj = 7 °C	COPd	3.08	-		
Tj = 12 °C	Pdh	3.5	kW	Tj = 12℃	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℃	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 (**)	Psup	0.0			
Standby mode	Psb	0.009	kW	Rated Heat Output ()	rsup	0.0	kW		
Thermostat-off mode	Pto	0.015	kW	Type of energy input	ГІо	atrical Heatin			
Crankcase heater mode	Pck	0.000	kW	Type of clistyy input	Ele	ctrical Heating	y 		
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}	-/68	dB	For water-or brine-to-water heat pumps: Rated brine or water flow rate, outdoor	-	-	m ³ /h		
Annual energy consumption	Q _{HE}	4207	kWh	heat exchanger					
For heat pump combination heater:									
Declared load profile		-		Water heating energy efficiency	η _{wh}	-	%		
Daily electricity consumption	Q _{clec}	-	kWh	Daily fuel consumption	Q _{fuel}	-	kWl		
Annual electricity consumption	AEC	-	kWh	Annual fuel consumption	AFC	-	GJ		
Contact details		R ESCODA SA		ONA (SPAIN)					

^(*) 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.

Model(s):				MAM-14-V9T								
Air-to-water heat pump:				YES								
Water-to-water heat pump:				NO NO								
Brine-to-water heat pump:			NO									
Low-temperature heat pump:				NO								
Equipped with a supplementary heate	er:			NO								
Heat pump combination heater:				NO								
Declared climate condition:				AVERAGE								
Parameters are declared for medium-	temperature	application	1.									
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 and outdoor temperature Tj	at indoor temp											
Tj = -7℃	Pdh	12.2	kW	Tj = -7℃	COPd	2.05	-					
Tj = 2 ℃	Pdh	7.8	kW	Tj = 2 °C	COPd	3.18	-					
Tj = 7 °C	Pdh	5.2	kW	Tj = 7 °C	COPd	4.29	-					
Tj = 12 °C	Pdh	2.6	kW	Tj = 12℃	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℃	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	ctive mode			Supplementary heater								
Off mode	Poff	0.009	kW	Rated heat output (**)	Psup	2.1	kW					
Standby mode	Psb	0.009	kW		·							
Thermostat-off mode	Pto	0.026	kW	Type of energy input	Elec	trical Heatin	ng					
Crankcase heater mode	Pck	0.000	kW									
Other items												
Capacity control		variable		For air-to-water heat pumps: Rated air flow rate, outdoors	-	6150	m ³ /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	-	-	m ³ /h					
Annual energy consumption	Q _{HE}	8724	kWh	heat exchanger								
For heat pump combination heater:												
Declared load profile		-		Water heating energy efficiency	ղ _{wh}	-	%					
Daily electricity consumption	Q _{clec}	-	kWh	Daily fuel consumption	Q _{fuel}	-	kWh					
Annual electricity consumption	AEC	-	kWh	Annual fuel consumption	AFC	-	GJ					
Contact details		R ESCODA S 392 P2 0802		ONA (SPAIN)								

Model(s):				MAM-14-V9T							
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	1.								
Item	Symbol	Value	Unit	Item	Symbol	Value	Un				
Rated heat output (*)	Prated	14.3	kW	Seasonal space heating energy efficiency	ηs	102	%				
Declared capacity for heating for part load and outdoor temperature Tj	at indoor temp	or temperature 20 °C Declared coefficient of performance or primary energy ratio for part load a indoor temperature 20 °C and outdoor temperature Tj									
Tj = -7℃	Pdh	8.9	kW	Tj = -7℃	COPd	2.35	-				
Tj = 2℃	Pdh	5.3	kW	Tj = 2 ℃	COPd	3.16	-				
Tj = 7℃	Pdh	3.3	kW	Tj = 7 °C	COPd	4.10	-				
Tj = 12 C	Pdh	1.4	kW	Tj = 12℃	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 °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	°(
Cycling interval capacity for heating	Pcych	-	kW	Cycling interval efficiency	COPcyc	-	-				
Degradation co-efficient (**)	Cdh	0.9		Heating water operating limit temperature	WTOL	44	°(
Power consumption in modes other than a	ctive mode			Supplementary heater							
Off mode	Poff	0.009	kW	Detail heat quitaut (**)	Б	0.7	Ī.,				
Standby mode	Psb	0.009	kW	Rated heat output (**)	Psup	8.7	k۷				
Thermostat-off mode	Pto	0.026	kW	Type of energy input	Flor	-4	_				
Crankcase heater mode	Pck	0.000	kW	Type of chargy input	Elec	ctrical Heatin	y				
Other items											
Capacity control		variable		For air-to-water heat pumps: Rated air flow rate, outdoors	-	6150	m ³ /				
Sound power level, indoors/outdoors	L _{WA}	-/71	dB	For water-or brine-to-water heat pumps: Rated brine or water flow rate, outdoor	-	-	m ³ /				
Annual energy consumption	Q _{HE}	13449	kWh	heat exchanger							
For heat pump combination heater:											
Declared load profile		-		Water heating energy efficiency	η _{wh}	-	9				
Daily electricity consumption	Q _{clec}	-	kWh	Daily fuel consumption	Q _{fuel}	-	k۷				
Annual electricity consumption	AEC	-	kWh	Annual fuel consumption	AFC	-	G				
Contact details		R ESCODA S. 392 P2 08025		DNA (SPAIN)							

Model(s):				MAM-14-V9T							
Air-to-water heat pump:			YES								
Water-to-water heat pump:			NO								
Brine-to-water heat pump:		NO									
Low-temperature heat pump:			NO NO								
Equipped with a supplementary heat	er:			NO							
Heat pump combination heater:				NO							
Declared climate condition:				WARMER							
Parameters are declared for medium	-temperature	application	١.								
Item	Symbol	Value	Unit	Item	Symbol	Value	Ur				
Rated heat output (*)	Prated	13.9	kW	Seasonal space heating energy efficiency	ηs	154	%				
Declared capacity for heating for part load			rature 20 °C Declared coefficient of performance or primary energy ratio for								
and outdoor temperature Tj	1			indoor temperature 20 °C and outdoor 20 °C and outdoor 20 °C and outdoor 20 °C and outdoor 20 °C	, ,						
Tj = -7℃	Pdh	-	kW	Tj = -7°C	COPd	-	-				
Tj = 2℃	Pdh	13.8	kW	Tj = 2 °C	COPd	2.17	_				
Tj = 7℃	Pdh	9.0	kW	Tj = 7 ℃	COPd	3.18	-				
Tj = 12℃	Pdh	4.2	kW	Tj = 12℃	COPd	5.26	<u> </u>				
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 °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	°(
Cycling interval capacity for heating	Pcych	-	kW	Cycling interval efficiency	COPcyc	-	-				
Degradation co-efficient (**)	Cdh	0.9		Heating water operating limit temperature	WTOL	60	°(
Power consumption in modes other than a	ctive mode			Supplementary heater							
Off mode	Poff	0.009	kW	Detail head suite it (**)	_		l				
Standby mode	Psb	0.009	kW	Rated heat output (**)	Psup	0.1	k۱				
Thermostat-off mode	Pto	0.026	kW	Type of aparay input							
Crankcase heater mode	Pck	0.000	kW	Type of energy input	Elec	ctrical Heatin	g 				
Other items											
Capacity control		variable		For air-to-water heat pumps: Rated air flow rate, outdoors	-	6150	m ³ /				
Sound power level, indoors/outdoors	L _{WA}	-/71	dB	For water-or brine-to-water heat pumps: Rated brine or water flow rate, outdoor	-	-	m ³ ,				
Annual energy consumption	Q _{HE}	4746	kWh	heat exchanger							
For heat pump combination heater:											
Declared load profile		-		Water heating energy efficiency	η _{wh}	-	9				
Daily electricity consumption	Q _{clec}	-	kWh	Daily fuel consumption	Q _{fuel}	-	k۱				
Annual electricity consumption	AEC	-	kWh	Annual fuel consumption	AFC	-	G				
Contact details		R ESCODA SA 392 P2 08025		DNA (SPAIN)							

Model(s):				MAM-16-V9T							
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 heat	er:			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	ηѕ	128	%				
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℃	Pdh	12.9	kW	Tj = -7℃	COPd	2.04	-				
Tj = 2 °C	Pdh	8.3	kW	Tj = 2℃	COPd	3.21	-				
Tj = 7 ℃	Pdh	5.5	kW	Tj = 7℃	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 a	ctive mode			Supplementary heater							
Off mode	Poff	0.009	kW	D-4							
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 or energy input	Elec	ctrical Heatin	g 				
Other items							_				
Capacity control		variable		For air-to-water heat pumps: Rated air flow rate, outdoors	-	6150	m ³ /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	_	-	m ³ /h				
Annual energy consumption	Q _{HE}	9216	kWh	heat exchanger							
For heat pump combination heater:											
Declared load profile		-		Water heating energy efficiency	η _{wh}	-	%				
Daily electricity consumption	Q _{clec}	-	kWh	Daily fuel consumption	Q _{fuel}	-	kW				
Annual electricity consumption	AEC	-	kWh	Annual fuel consumption	AFC	-	GJ				
	SALVADOR										

^(*) 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.

Model(s):				MAM-16-V9T							
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	er:			NO							
Heat pump combination heater:				NO							
Declared climate condition:				COLDER							
Parameters are declared for medium-	temperature	e application									
					I						
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit				
Rated heat output (*)	Prated	15.2	kW	Seasonal space heating energy efficiency	ηѕ	106	%				
Declared capacity for heating for part load 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℃	Pdh	9.6	kW	Tj = -7℃	COPd	2.38	-				
Tj = 2 °C	Pdh	5.6	kW	Tj = 2℃	COPd	3.31	-				
Tj = 7 °C	Pdh	4.0	kW	Tj = 7 °C	COPd	4.47	-				
Tj = 12℃	Pdh	1.9	kW	Tj = 12℃	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 °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 a	ctive mode			Supplementary heater							
Off mode	Poff	0.009	kW	Dated hoot subsut /**)							
Standby mode	Psb	0.009	kW	Rated heat output (**)	Psup	9.6	kW				
Thermostat-off mode	Pto	0.041	kW	Type of energy input	El-	-4	_				
Crankcase heater mode	Pck	0.000	kW	Type of energy input	Ele	ctrical Heatin	g 				
Other items											
Capacity control		variable		For air-to-water heat pumps: Rated air flow rate, outdoors	-	6150	m ³ /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	_	-	m ³ /h				
Annual energy consumption	Q _{HE}	13768	kWh	heat exchanger							
For heat pump combination heater:											
Declared load profile		-		Water heating energy efficiency	η _{wh}	-	%				
Daily electricity consumption	Q _{clec}	-	kWh	Daily fuel consumption	Q _{fuel}	-	kW				
Annual electricity consumption	AEC	-	kWh	Annual fuel consumption	AFC	-	GJ				
	SALVADOF			·	•		_				

^(*) 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.

Model(s):				MAM-16-V9T					
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 heate	er:			NO					
Heat pump combination heater:		NO							
Declared climate condition:				WARMER					
Parameters are declared for medium	temperature	application	ı.						
Item	Symbol	Value	Unit	Item	Symbol	Value	Uni		
Rated heat output (*)	Prated	15.7	kW	Seasonal space heating energy efficiency	ηѕ	154	%		
Declared capacity for heating for part load and outdoor temperature Tj	at indoor tem	oerature 20 °C		Declared coefficient of performance or prim indoor temperature 20 °C and outdoor tell			ad at		
Tj = -7℃	Pdh	-	kW	Tj = -7°C	COPd	-	-		
Tj = 2 °C	Pdh	14.1	kW	Tj = 2℃	COPd	2.14	-		
Tj = 7 °C	Pdh	10.1	kW	Tj = 7°C	COPd	3.22	-		
Tj = 12˚C	Pdh	4.8	kW	Tj = 12℃	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 °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 a	ctive mode			Supplementary heater					
Off mode	Poff	0.009	kW	Detail be at autout (**)	D.	1.6	kW		
Standby mode	Psb	0.009	kW	Rated heat output (**)	Psup				
Thermostat-off mode	Pto	0.041	kW	Type of aperay input	FI				
Crankcase heater mode	Pck	0.000	kW	Type of energy input		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 _{WA}	-/71	dB	For water-or brine-to-water heat pumps: Rated brine or water flow rate, outdoor	-	-	m ³ /h		
Annual energy consumption	Q _{HE}	5367	kWh	heat exchanger					
For heat pump combination heater:									
Declared load profile		-		Water heating energy efficiency	η _{wh}	-	%		
Daily electricity consumption	Q _{clec}	-	kWh	Daily fuel consumption	Q _{fuel}	-	kW		
Annual electricity consumption	AEC	-	kWh	Annual fuel consumption	AFC	-	GJ		
Contact details		R ESCODA S. 392 P2 08025		DNA (SPAIN)					

Information requirements for comfort chillers

Model(s):			MAM-5-V9M							
Outdoor side heat exchanger of chiller: Indoor side heat exchanger chiller: Type: Driver of compressor:			Air to water							
			Water Compressor driven vapour compression							
			Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated cooling capacity	P _{rated,c}	4.9	kW	Seasonal space cooling energy efficiency	η _{s,c}	186	%			
Declared cooling capacity for part load at given outdoor temperature Tj				Declared energy efficiency ratio for part load at given outdoor temperature Tj						
Tj=+35°C	P _{dc}	4.9	kW	Tj=+35°C	EERd	3.01	-			
Tj=+30°C	P _{dc}	3.6	kW	Tj=+30°C	EERd	4.36	-			
Tj=+25°C	P _{dc}	2.2	kW	Tj=+25°C	EERd	5.61	-			
Tj=+20°C	P _{dc}	1.0	kW	Tj=+20°C	EERd	5.14	-			
Degradation co-efficient for chillers (*)	C _{dc}	0.9	-							
		Power cons	sumption in mod	des other than "active n	node"					
Off mode	Poff	0.009	kW	Crankcase heater mode	Pck	0.000	kW			
Thermosat-off mode	P _{TO}	0.004	kW	Standby mode	P _{SB}	0.009	kW			
			Othe	r items						
Capacity control		variable		For air-to-water comfort chillers:	-	3050	m³/h			
Sound power level, indoors / outdoors	L _{WA}	-/61	dB	air flow rate, outdoor measured						
Emissions of nitroger oxides (if applicable)	NO _x (**)	-	mg/kWh input GCV	For water / brine-to-water chillers: Rated brine or	-	-	m³/h			
GWP of the refrigerant	-	675	kg CO _{2 eq} (100years)	water flow rate, outdoor side heat exchanger						
Standard rating cor	nditions used	Low tempera	ature applicatio	n						
	Contact details SALVADOR ES PROVENA 392			CODA SA P2 08025 BARCELONA (SPAIN)						

Model(s):			MAM-5-V9M						
Outdoor side heat e	xchanger of c	hiller:	Air to water						
Indoor side heat exc	changer chille	r:	Water						
Type:	уре:			driven vapour compres	sion				
Driver of compresso	or:		Electric moto	r					
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit		
Rated cooling capacity	P _{rated,c}	4.6	kW	Seasonal space cooling energy efficiency	η _{s,c}	301	%		
Declared cooling catemperature Tj	apacity for pa	rt load at giver	outdoor	Declared energy effort		or part load at	given		
Tj=+35°C	P _{dc}	4.6	kW	Tj=+35°C	EERd	4.97	-		
Tj=+30°C	P _{dc}	3.4	kW	Tj=+30°C	EERd	6.96	-		
Tj=+25°C	P _{dc}	2.2	kW	Tj=+25°C	EERd	9.40	-		
Tj=+20°C	P _{dc}	1.1	kW	Tj=+20°C	EERd	8.50	-		
Degradation co-efficient for chillers (*)	C _{dc}	0.9	-						
		Power cons	umption in mod	des other than "active r	node"				
Off mode	Poff	0.009	kW	Crankcase heater mode	Рск	0.000	kW		
Thermosat-off mode	P _{TO}	0.004	kW	Standby mode	P _{SB}	0.009	kW		
			Othe	r items					
Capacity control		variable		For air-to-water comfort chillers:		2050	m³/h		
Sound power level, indoors / outdoors	Lwa	-/61	dB	air flow rate, outdoor measured	-	3050	m°/n		
Emissions of nitroger oxides (if applicable)	NO _x (**)	-	mg/kWh input GCV	For water / brine-to-water chillers: Rated brine or			m³/h		
GWP of the refrigerant		675	kg CO _{2 eq} (100years)	water flow rate, outdoor side heat exchanger			/		
Standard rating conditions used Medium ten			perature applic	cation					
Contact details		SALVADOR ES PROVENA 392	CODA SA P2 08025 BARCEL	ONA (SPAIN)					
(*) If Cdc is not de (**) From 26 Septe		measurement t	then the defaul	t degradation coefficier	nt of chillers sh	nall be 0,9.			

Model(s):			MAM-7-V9M						
Outdoor side heat e	xchanger of c	hiller:	Air to water						
Indoor side heat exc	changer chille	r:	Water						
Type:	Гуре:			driven vapour compres	sion				
Driver of compresso	or:		Electric moto	r					
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit		
Rated cooling capacity	P _{rated,c}	6.2	kW	Seasonal space cooling energy efficiency	η _{s,c}	196	%		
Declared cooling catemperature Tj	apacity for pa	rt load at giver	outdoor	Declared energy effort		or part load at	given		
Tj=+35°C	P _{dc}	6.2	kW	Tj=+35°C	EERd	2.78	-		
Tj=+30°C	P _{dc}	4.7	kW	Tj=+30°C	EERd	4.21	-		
Tj=+25°C	P _{dc}	3.0	kW	Tj=+25°C	EERd	6.10	-		
Tj=+20°C	P _{dc}	1.4	kW	Tj=+20°C	EERd	6.65	-		
Degradation co-efficient for chillers (*)	C _{dc}	0.9	-						
,		Power cons	umption in mod	des other than "active r	mode"				
Off mode	Poff	0.009	kW	Crankcase heater mode	Рск	0.000	kW		
Thermosat-off mode	Рто	0.002	kW	Standby mode	P _{SB}	0.009	kW		
			Othe	r items					
Capacity control		variable		For air-to-water comfort chillers:			2.0		
Sound power level, indoors / outdoors	L _{WA}	-/64	dB	air flow rate, outdoor measured	-	3050	m ³ /h		
Emissions of nitroger oxides (if applicable)	NO _× (**)	-	mg/kWh input GCV	For water / brine-to-water chillers: Rated brine or			m³/h		
GWP of the refrigerant	-	675	kg CO _{2 eq} (100years)	water flow rate, outdoor side heat exchanger	<u>-</u>	_	111 /11		
Standard rating conditions used Low temper			rature application						
Contact details SALVADOR ES PROVENA 392			SCODA SA P2 08025 BARCELONA (SPAIN)						
(*) If Cdc is not de (**) From 26 Septe		measurement t	hen the default	t degradation coefficien	it of chillers sh	nall be 0,9.			

Model(s):			MAM-7-V9M						
Outdoor side heat e	exchanger of c	hiller:	Air to water						
Indoor side heat exc	changer chille	r:	Water						
Type:			Compressor	driven vapour compres	sion				
Driver of compresso	or:		Electric moto	r					
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit		
Rated cooling capacity	P _{rated,c}	6.4	kW	Seasonal space cooling energy efficiency	$\eta_{s,c}$	340	%		
Declared cooling contemperature Tj	apacity for pa	rt load at giver	n outdoor	Declared energy effort		or part load at	given		
Tj=+35°C	P _{dc}	6.4	kW	Tj=+35°C	EERd	4.72	-		
Tj=+30°C	P _{dc}	4.9	kW	Tj=+30°C	EERd	6.80	-		
Tj=+25°C	P _{dc}	3.1	kW	Tj=+25°C	EERd	10.70	-		
Tj=+20°C	P _{dc}	1.6	kW	Tj=+20°C	EERd	12.16	-		
Degradation co-efficient for chillers (*)	C_{dc}	0.9	-						
		Power cons	umption in mod	des other than "active r	mode"				
Off mode	Poff	0.009	kW	Crankcase heater mode	Рск	0.000	kW		
Thermosat-off mode	Рто	0.002	kW	Standby mode	P _{SB}	0.009	kW		
			Othe	r items					
Capacity control		variable		For air-to-water comfort chillers:		2050	3 <i>/</i> In		
Sound power level, indoors / outdoors	L _{WA}	-/64	dB	air flow rate, outdoor measured	-	3050	m ³ /h		
Emissions of nitroger oxides (if applicable)	NO _x (**)	-	mg/kWh input GCV	For water / brine-to-water chillers: Rated brine or			m³/h		
GWP of the refrigerant	-	675	kg CO _{2 eq} (100years)	water flow rate, outdoor side heat exchanger	_		111 /11		
Standard rating conditions used Medium ten			perature applic	cation					
Contact details SALVADOR ESPROVENA 392			CODA SA P2 08025 BARCEL	ONA (SPAIN)					
(*) If Cdc is not de (**) From 26 Septe		neasurement t	then the defaul	t degradation coefficier	nt of chillers sh	nall be 0,9.			

Model(s):			MAM-9-V9M						
Outdoor side heat e	exchanger of o	hiller:	Air to water						
Indoor side heat exc	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 _{rated,c}	7.9	kW	Seasonal space cooling energy efficiency	η _{s,c}	194	%		
Declared cooling catemperature Tj	apacity for pa	rt load at giver	outdoor	Declared energy eff		or part load at	given		
Tj=+35°C	P _{dc}	7.9	kW	Tj=+35°C	EER₀	2.39	-		
Tj=+30°C	P _{dc}	5.9	kW	Tj=+30°C	EERd	3.86	-		
Tj=+25°C	P _{dc}	3.9	kW	Tj=+25°C	EERd	5.95	-		
Tj=+20°C	P _{dc}	1.7	kW	Tj=+20°C	EERd	7.47	-		
Degradation co-efficient for chillers (*)	C _{dc}	0.9	-						
		Power cons	umption in mo	des other than "active r	node"				
Off mode	Poff	0.009	kW	Crankcase heater mode	Рск	0.000	kW		
Thermosat-off mode	Рто	0.003	kW	Standby mode	P _{SB}	0.009	kW		
			Othe	er items					
Capacity control		variable		For air-to-water comfort chillers:		0050	2.11		
Sound power level, indoors / outdoors	L _{WA}	-/67	dB	air flow rate, outdoor measured	-	3050	m³/h		
Emissions of nitroger oxides (if applicable)	NO _× (**)	-	mg/kWh input GCV	For water / brine-to-water chillers: Rated brine or			m³/h		
GWP of the refrigerant	-	675	kg CO _{2 eq} (100years)	water flow rate, outdoor side heat exchanger		-	111:711		
Standard rating con	ditions used	Low tempera	ature application						
Contact details		SALVADOR ES PROVENA 392	CCODA SA P2 08025 BARCELONA (SPAIN)						
(*) If Cdc is not de (**) From 26 Septe		neasurement t	hen the defaul	t degradation coefficien	t of chillers sh	nall be 0,9.			

Model(s):			MAM-9-V9M						
Outdoor side heat e	exchanger of o	hiller:	Air to water						
Indoor side heat exc	changer chille	r:	Water						
Type:			Compressor	driven vapour compres	sion				
Driver of compresso	or:		Electric moto	r					
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit		
Rated cooling capacity	P _{rated,c}	7.9	kW	Seasonal space cooling energy efficiency	$\eta_{s,c}$	312	%		
Declared cooling catemperature Tj	apacity for pa	rt load at giver	outdoor	Declared energy effort		or part load at	given		
Tj=+35°C	P _{dc}	7.9	kW	Tj=+35°C	EERd	4.17	-		
Tj=+30°C	P _{dc}	6.1	kW	Tj=+30°C	EERd	6.14	-		
Tj=+25°C	P _{dc}	3.8	kW	Tj=+25°C	EERd	9.80	-		
Tj=+20°C	P _{dc}	2.0	kW	Tj=+20°C	EERd	11.53	-		
Degradation co-efficient for chillers (*)	$C_{ ext{dc}}$	0.9	-						
		Power cons	umption in mod	des other than "active r	mode"				
Off mode	P _{OFF}	0.009	kW	Crankcase heater mode	Рск	0.000	kW		
Thermosat-off mode	Рто	0.003	kW	Standby mode	P _{SB}	0.009	kW		
			Othe	r items					
Capacity control		variable		For air-to-water comfort chillers:		2050	3 <i>I</i> II.		
Sound power level, indoors / outdoors	L _{WA}	-/67	dB	air flow rate, outdoor measured	-	3050	m ³ /h		
Emissions of nitroger oxides (if applicable)	NO _x (**)	-	mg/kWh input GCV	For water / brine-to-water chillers: Rated brine or			m³/h		
GWP of the refrigerant	-	675	kg CO _{2 eq} (100years)	water flow rate, outdoor side heat exchanger	<u>-</u>		111 /11		
Standard rating conditions used Medium ten			perature applic	cation					
Contact details SALVADOR ES PROVENA 392			SCODA SA P2 08025 BARCELONA (SPAIN)						
(*) If Cdc is not de (**) From 26 Septe		neasurement t	hen the defaul	t degradation coefficier	nt of chillers sh	nall be 0,9.			

Model(s):			MAM-12-V9M							
Outdoor side heat e	xchanger of c	hiller:	Air to water							
Indoor side heat exc	changer chille	r:	Water	Water						
Type:			Compressor	driven vapour compres	sion					
Driver of compresso	or:		Electric moto	r						
Item	Symbol	Value	Unit	ltem	Symbol	Value	Unit			
Rated cooling capacity	P _{rated,c}	11.3	kW	Seasonal space cooling energy efficiency	$\eta_{s,c}$	191	%			
Declared cooling ca temperature Tj	apacity for pa	rt load at giver	outdoor	Declared energy effort		or part load at	given			
Tj=+35°C	P _{dc}	11.3	kW	Tj=+35°C	EERd	2.90	-			
Tj=+30°C	P _{dc}	8.1	kW	Tj=+30°C	EERd	4.05	-			
Tj=+25°C	P _{dc}	5.2	kW	Tj=+25°C	EERd	5.42	-			
Tj=+20°C	P _{dc}	2.5	kW	Tj=+20°C	EERd	6.73	-			
Degradation co-efficient for chillers (*)	C _{dc}	0.9	-							
,		Power cons	umption in mod	des other than "active r	mode"					
Off mode	Poff	0.009	kW	Crankcase heater mode	Рск	0.000	kW			
Thermosat-off mode	P _{TO}	0.012	kW	Standby mode	P _{SB}	0.009	kW			
			Othe	r items						
Capacity control		variable		For air-to-water comfort chillers:		24-2	2.0			
Sound power level, indoors / outdoors	L _{WA}	-/68	dB	air flow rate, outdoor measured	-	6150	m ³ /h			
Emissions of nitroger oxides (if applicable)	NO _× (**)	-	mg/kWh input GCV	For water / brine-to-water chillers: Rated brine or			m³/h			
GWP of the refrigerant	-	675	kg CO _{2 eq} (100years)	water flow rate, outdoor side heat exchanger	<u>-</u>	_				
Standard rating conditions used Low temper			rature application							
Contact details SALVADOR ES PROVENA 392			SCODA SA P P2 08025 BARCELONA (SPAIN)							
(*) If Cdc is not de (**) From 26 Septe		measurement t	hen the default	t degradation coefficier	nt of chillers sh	nall be 0,9.				

Model(s):			MAM-12-V9N	Л					
Outdoor side heat e	exchanger of o	hiller:	Air to water						
Indoor side heat exc	changer chille	r:	Water						
Type:			Compressor	driven vapour compres	sion				
Driver of compresso	or:		Electric moto	r					
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit		
Rated cooling capacity	P _{rated,c}	12.6	kW	Seasonal space cooling energy efficiency	η _{s,c}	297	%		
Declared cooling catemperature Tj	apacity for pa	rt load at giver	outdoor	Declared energy effoutdoor temperature		or part load at	given		
Tj=+35°C	P _{dc}	12.6	kW	Tj=+35°C	EERd	4.74	-		
Tj=+30°C	P _{dc}	8.9	kW	Tj=+30°C	EERd	6.50	-		
Tj=+25°C	P _{dc}	5.9	kW	Tj=+25°C	EERd	8.65	-		
Tj=+20°C	P _{dc}	3.0	kW	Tj=+20°C	EERd	9.00	-		
Degradation co-efficient for chillers (*)	$C_{ ext{dc}}$	0.9	-						
		Power cons	umption in mo	des other than "active r	mode"				
Off mode	Poff	0.009	kW	Crankcase heater mode	Рск	0.000	kW		
Thermosat-off mode	Рто	0.012	kW	Standby mode	P _{SB}	0.009	kW		
			Othe	r items					
Capacity control		variable		For air-to-water comfort chillers:		C450	3 /le		
Sound power level, indoors / outdoors	Lwa	-/68	dB	air flow rate, outdoor measured	-	6150	m ³ /h		
Emissions of nitroger oxides (if applicable)	NO _x (**)	-	mg/kWh input GCV	For water / brine-to-water chillers: Rated brine or			m³/h		
GWP of the refrigerant	- (0/;)			water flow rate, outdoor side heat exchanger			/		
Standard rating conditions used Medium ten			perature applic	cation					
Contact details SALVADOR ES PROVENA 392			CODA SA P2 08025 BARCEL	LONA (SPAIN)					
(*) If Cdc is not de (**) From 26 Septe		neasurement t	hen the defaul	t degradation coefficier	nt of chillers sh	nall be 0,9.			

Model(s):			MAM-14-V9M							
Outdoor side heat e	exchanger of o	hiller:	Air to water							
Indoor side heat exc	changer chille	r:	Water	Water						
Type:			Compressor	driven vapour compres	sion					
Driver of compresso	or:		Electric moto	r						
Item	Symbol	Value	Unit	ltem	Symbol	Value	Unit			
Rated cooling capacity	P _{rated,c}	12.9	kW	Seasonal space cooling energy efficiency	η _{s,c}	186	%			
Declared cooling ca temperature Tj	apacity for pa	rt load at giver	n outdoor	Declared energy effort		or part load at	given			
Tj=+35°C	P _{dc}	12.9	kW	Tj=+35°C	EERd	2.71	-			
Tj=+30°C	P _{dc}	9.6	kW	Tj=+30°C	EERd	3.90	-			
Tj=+25°C	P _{dc}	6.0	kW	Tj=+25°C	EERd	5.37	-			
Tj=+20°C	P _{dc}	2.9	kW	Tj=+20°C	EERd	6.71	-			
Degradation co-efficient for chillers (*)	C_{dc}	0.9	-							
		Power cons	umption in mo	des other than "active r	mode"					
Off mode	Poff	0.009	kW	Crankcase heater mode	Рск	0.000	kW			
Thermosat-off mode	Рто	0.022	kW	Standby mode	P _{SB}	0.009	kW			
			Othe	r items						
Capacity control		variable		For air-to-water comfort chillers:		0450	3/1-			
Sound power level, indoors / outdoors	L _{WA}	-/71	dB	air flow rate, outdoor measured	-	6150	m ³ /h			
Emissions of nitroger oxides (if applicable)	NO _× (**)	-	mg/kWh input GCV	For water / brine-to-water chillers: Rated brine or			m³/h			
GWP of the refrigerant	-	675	kg CO _{2 eq} (100years)	water flow rate, outdoor side heat exchanger			111 /11			
Standard rating conditions used Low temper			ature applicatio	n						
Contact details SALVADOR ES PROVENA 392			CODA SA P2 08025 BARCEL	ONA (SPAIN)						
(*) If Cdc is not de (**) From 26 Septe		neasurement t	hen the defaul	t degradation coefficier	nt of chillers sh	nall be 0,9.				

Model(s):			MAM-14-V9M								
Outdoor side heat e	exchanger of c	:hiller:	Air to water	Air to water Water							
Indoor side heat ex	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 _{rated,c}	14.2	kW	Seasonal space cooling energy efficiency	η _{s,c}	283	%				
Declared cooling c temperature Tj	apacity for pa	rt load at giver	n outdoor	Declared energy eff		or part load at	given				
Tj=+35°C	P _{dc}	14.2	kW	Tj=+35°C	EERd	4.42	-				
Tj=+30°C	P _{dc}	10.5	kW	Tj=+30°C	EERd	6.14	-				
Tj=+25°C	P _{dc}	6.6	kW	Tj=+25°C	EERd	8.44	-				
Tj=+20°C	P _{dc}	2.9	kW	Tj=+20°C	EERd	8.43	-				
Degradation co-efficient for chillers (*)	C _{dc}	0.9	-								
		Power cons	sumption in mod	des other than "active n	node"						
Off mode	Poff	0.009	kW	Crankcase heater mode	Pck	0.000	kW				
Thermosat-off mode	P _{TO}	0.022	kW	Standby mode	P _{SB}	0.009	kW				
			Othe	r items							
Capacity control		variable		For air-to-water comfort chillers:		6150	m³/h				
Sound power level, indoors / outdoors	L _{WA}	-/71	dB	air flow rate, outdoor measured	-	6150	m ⁹ /n				
Emissions of nitroger oxides (if applicable)	NO _x (**)	-	mg/kWh input GCV	For water / brine-to-water chillers: Rated brine or	_		m³/h				
GWP of the refrigerant	-	675	kg CO _{2 eq} (100years)	water flow rate, outdoor side heat exchanger			/				
Standard rating conditions used Medium ten			perature applic	ation							
			CODA SA								

Model(s):			MAM-16-V9M							
Outdoor side heat e	xchanger of c	hiller:	Air to water	Air to water						
Indoor side heat exc	changer chille	r:	Water							
Type:	уре:			driven vapour compres	sion					
Driver of compresso	or:		Electric moto	r						
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit			
Rated cooling capacity	P _{rated,c}	13.9	kW	Seasonal space cooling energy efficiency	η _{s,c}	178	%			
Declared cooling catemperature Tj	apacity for pa	rt load at giver	n outdoor	Declared energy effort		or part load at	given			
Tj=+35°C	P _{dc}	13.9	kW	Tj=+35°C	EERd	2.53	-			
Tj=+30°C	P _{dc}	10.5	kW	Tj=+30°C	EERd	3.81	-			
Tj=+25°C	P _{dc}	6.4	kW	Tj=+25°C	EERd	5.16	-			
Tj=+20°C	P _{dc}	3.1	kW	Tj=+20°C	EERd	6.49	-			
Degradation co-efficient for chillers (*)	C _{dc}	0.9	-							
,		Power cons	umption in mod	des other than "active r	mode"					
Off mode	Poff	0.009	kW	Crankcase heater mode	Рск	0.000	kW			
Thermosat-off mode	P _{TO}	0.031	kW	Standby mode	P _{SB}	0.009	kW			
			Othe	r items						
Capacity control		variable		For air-to-water comfort chillers:		0.450	2.0			
Sound power level, indoors / outdoors	L _{WA}	-/71	dB	air flow rate, outdoor measured	-	6150	m³/h			
Emissions of nitroger oxides (if applicable)	NO _x (**)	-	mg/kWh input GCV	For water / brine-to-water chillers: Rated brine or			m³/h			
GWP of the refrigerant	-	675	kg CO _{2 eq} (100years)	water flow rate, outdoor side heat exchanger	<u>-</u>		111 /11			
Standard rating conditions used Low temper			ature applicatio	n						
Contact details SALVADOR ES PROVENA 392			SCODA SA 2 P2 08025 BARCELONA (SPAIN)							
(*) If Cdc is not de (**) From 26 Septe		measurement t	hen the default	t degradation coefficier	nt of chillers sh	nall be 0,9.				

Model(s):			MAM-14-V9M								
Outdoor side heat e	exchanger of c	:hiller:	Air to water	Air to water Water							
Indoor side heat ex	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 _{rated,c}	15.3	kW	Seasonal space cooling energy efficiency	$\eta_{s,c}$	268	%				
Declared cooling contemperature Tj	apacity for pa	rt load at giver	n outdoor	Declared energy eff outdoor temperature		or part load at	given				
Tj=+35°C	P _{dc}	15.3	kW	Tj=+35°C	EERd	4.19	-				
Tj=+30°C	P _{dc}	11.3	kW	Tj=+30°C	EERd	5.94	-				
Tj=+25°C	P _{dc}	7.2	kW	Tj=+25°C	EER₀	7.98	-				
Tj=+20°C	P _{dc}	3.4	kW	Tj=+20°C	EERd	8.27	-				
Degradation co-efficient for chillers (*)	C _{dc}	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 _{TO}	0.031	kW	Standby mode	P _{SB}	0.009	kW				
			Othe	r items							
Capacity control		variable		For air-to-water comfort chillers:		6150	m³/h				
Sound power level, indoors / outdoors	L _{WA}	-/71	dB	air flow rate, outdoor measured	-	6150	m ⁹ /n				
Emissions of nitroger oxides (if applicable)	NO _x (**)	-	mg/kWh input GCV	For water / brine-to-water chillers: Rated brine or	_		m³/h				
GWP of the refrigerant	-	675	kg CO _{2 eq} (100years)	water flow rate, outdoor side heat exchanger							
Standard rating cor	nditions used	Medium tem	perature applic	eation							
		SALVADOR ES	CODA SA								

Model(s):			MAM-12-V9T						
Outdoor side heat e	exchanger of c	hiller:	Air to water						
Indoor side heat exc	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 _{rated,c}	11.3	kW	Seasonal space cooling energy efficiency	η _{s,c}	191	%		
Declared cooling catemperature Tj	apacity for pa	rt load at giver	outdoor	Declared energy eff		or part load at	given		
Tj=+35°C	P _{dc}	11.3	kW	Tj=+35°C	EER₀	2.90	-		
Tj=+30°C	P _{dc}	8.1	kW	Tj=+30°C	EERd	4.05	-		
Tj=+25°C	P _{dc}	5.2	kW	Tj=+25°C	EERd	5.42	-		
Tj=+20°C	P _{dc}	2.5	kW	Tj=+20°C	EERd	6.73	-		
Degradation co-efficient for chillers (*)	C _{dc}	0.9	-						
		Power cons	umption in mo	des other than "active r	node"				
Off mode	Poff	0.009	kW	Crankcase heater mode	Рск	0.000	kW		
Thermosat-off mode	Рто	0.012	kW	Standby mode	P _{SB}	0.009	kW		
			Othe	er items					
Capacity control		variable		For air-to-water comfort chillers:		0.450	2.11		
Sound power level, indoors / outdoors	L _{WA}	-/68	dB	air flow rate, outdoor measured	-	6150	m ³ /h		
Emissions of nitroger oxides (if applicable)	NO _× (**)	-	mg/kWh input GCV	For water / brine-to-water chillers: Rated brine or			m³/h		
GWP of the refrigerant	-	675	kg CO _{2 eq} (100years)	water flow rate, outdoor side heat exchanger		-	111:711		
Standard rating con	iditions used	Low tempera	ature application						
Contact details		SALVADOR ES PROVENA 392	CCODA SA P2 08025 BARCELONA (SPAIN)						
(*) If Cdc is not de (**) From 26 Septe		neasurement t	hen the defaul	t degradation coefficien	t of chillers sh	nall be 0,9.			

	changer of c										
Indoor side heat exch	Outdoor side heat exchanger of chiller:			Air to water							
	Indoor side heat exchanger chiller:			Water							
Туре:			Compressor driven vapour compression								
Driver of compressor:			Electric moto	Electric motor							
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit				
Rated cooling capacity	P _{rated,c}	12.6	kW	Seasonal space cooling energy efficiency	η _{s,c}	297	%				
Declared cooling cap temperature Tj	pacity for par	t load at giver	outdoor	Declared energy effoutdoor temperature		or part load at	 given				
Tj=+35°C	P _{dc}	12.6	kW	Tj=+35°C	EERd	4.74	-				
Tj=+30°C	P _{dc}	8.9	kW	Tj=+30°C	EERd	6.50	-				
Tj=+25°C	P _{dc}	5.9	kW	Tj=+25°C	EERd	8.65	-				
Tj=+20°C	P _{dc}	3.0	kW	Tj=+20°C	EERd	9.00	-				
Degradation co-efficient for chillers (*)	C _{dc}	0.9	-								
		Power cons	umption in mod	des other than "active n	node"						
Off mode	P _{OFF}	0.009	kW	Crankcase heater mode	Pck	0.000	kW				
Thermosat-off mode	Рто	0.012	kW	Standby mode	P _{SB}	0.009	kW				
			Othe	r items							
Capacity control		variable		For air-to-water comfort chillers:		0450	3.0-				
Sound power level, indoors / outdoors	L _{WA}	-/68	dB	air flow rate, outdoor measured	-	6150	m ³ /h				
Emissions of nitroger oxides (if applicable)	NO _x (**)	-	mg/kWh input GCV	For water / brine-to-water chillers: Rated brine or	_		m³/h				
GWP of the refrigerant		675	kg CO _{2 eq} (100years)	water flow rate, outdoor side heat exchanger			1117/11				
Standard rating conditions used Medium tem		perature applic	ation								
Contact details SALVADOR ES PROVENA 392			CODA SA P2 08025 BARCEL	ONA (SPAIN)							

Model(s):			MAM-14-V9T	-14-V9T						
Outdoor side heat e	exchanger of o	hiller:	Air to water							
Indoor side heat exchanger chiller:			Water							
Туре:			Compressor driven vapour compression							
Driver of compressor:			Electric motor							
Item	Symbol	Value	Unit	Item	Value	Unit				
Rated cooling capacity	P _{rated,c}	12.9	kW	Seasonal space cooling energy efficiency	η _{s,c}	186	%			
Declared cooling contemperature Tj	apacity for pa	rt load at giver	outdoor	Declared energy efficiency ratio for part load at given outdoor temperature Tj						
Tj=+35°C	P _{dc}	12.9	kW	Tj=+35°C	EERd	2.71	-			
Tj=+30°C	P _{dc}	9.6	kW	Tj=+30°C	EERd	3.90	-			
Tj=+25°C	P _{dc}	6.0	kW	Tj=+25°C	EERd	5.37	-			
Tj=+20°C	P _{dc}	2.9	kW	Tj=+20°C	EERd	6.71	-			
Degradation co-efficient for chillers (*)	C _{dc}	0.9	-							
		Power cons	umption in mo	des other than "active r	node"					
Off mode	Poff	0.009	kW	Crankcase heater mode	Рск	0.000	kW			
Thermosat-off mode	P _{TO}	0.022	kW	Standby mode	P _{SB}	0.009	kW			
			Othe	er items						
Capacity control		variable		For air-to-water comfort chillers:			0.0			
Sound power level, indoors / outdoors	Lwa	-/71	dB	air flow rate, outdoor measured	-	6150	m ³ /h			
Emissions of nitroger oxides (if applicable)	NO _x (**)	-	mg/kWh input GCV	For water / brine-to-water chillers: Rated brine or	_		m³/h			
GWP of the refrigerant	-	675	kg CO _{2 eq} (100years)	water flow rate, outdoor side heat exchanger			111 /11			
Standard rating conditions used Low temperature Low temperatur		ature applicatio	on							
		SALVADOR ES PROVENA 392	CODA SA P2 08025 BARCEL	LONA (SPAIN)						
(*) If Cdc is not de (**) From 26 Sept		measurement t	hen the defaul	t degradation coefficier	nt of chillers sh	nall be 0,9.				

Model(s):			MAM-14-V9T	M-14-V9T						
Outdoor side heat e	exchanger of o	hiller:	Air to water							
Indoor side heat exchanger chiller:			Water							
Type:			Compressor driven vapour compression							
Driver of compressor:			Electric motor							
Item	Symbol	mbol Value Unit Item Symbol Value								
Rated cooling				Seasonal space cooling	Эупівої		Unit			
capacity	P _{rated,c}	14.2	kW	energy efficiency	η _{s,c}	283	%			
Declared cooling catemperature Tj	apacity for pa	rt load at giver	outdoor	Declared energy eff outdoor temperature		or part load at	given			
Tj=+35°C	P _{dc}	14.2	kW	Tj=+35°C	EERd	4.42	-			
Tj=+30°C	P _{dc}	10.5	kW	Tj=+30°C	EERd	6.14	-			
Tj=+25°C	P _{dc}	6.6	kW	Tj=+25°C	EERd	8.44	-			
Tj=+20°C	P _{dc}	2.9	kW	Tj=+20°C	EERd	8.43	-			
Degradation co-efficient for chillers (*)	C _{dc}	0.9	-							
		Power cons	umption in mod	des other than "active r	node"					
Off mode	Poff	0.009	kW	Crankcase heater mode	Рск	0.000	kW			
Thermosat-off mode	P _{TO}	0.022	kW	Standby mode	P _{SB}	0.009	kW			
			Othe	r items						
Capacity control		variable		For air-to-water comfort chillers:						
Sound power level, indoors / outdoors	L _{WA}	-/71	dB	air flow rate, outdoor measured	-	6150	m ³ /h			
Emissions of nitroger oxides (if applicable)	NO _× (**)	-	mg/kWh input GCV	For water / brine-to-water chillers: Rated brine or			m³/h			
GWP of the refrigerant	-	675	kg CO _{2 eq} (100years)	water flow rate, outdoor side heat exchanger	-	-	m~/n			
Standard rating conditions used Medium tel		Medium tem	perature applic	ation						
		SALVADOR ES PROVENA 392	CODA SA P2 08025 BARCEL	ONA (SPAIN)						
(*) If Cdc is not de (**) From 26 Septe		measurement t	hen the default	t degradation coefficien	it of chillers sh	nall be 0,9.				

Model(s):			MAM-16-V9T	9Т						
Outdoor side heat exchanger of chiller:			Air to water							
Indoor side heat exchanger chiller: Type:			Water Compressor driven vapour compression							
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit			
Rated cooling capacity	P _{rated,c}	13.9	kW	Seasonal space cooling energy efficiency	$\eta_{s,c}$	178	%			
Declared cooling c	apacity for pa	rt load at giver	n outdoor	Declared energy eff outdoor temperature		or part load at	given			
Tj=+35°C	P _{dc}	13.9	kW	Tj=+35°C	EER₀	2.53	-			
Tj=+30°C	P _{dc}	10.5	kW	Tj=+30°C	EERd	3.81	-			
Tj=+25°C	P _{dc}	6.4	kW	Tj=+25°C	EER₀	5.16	-			
Tj=+20°C	P _{dc}	3.1	kW	Tj=+20°C	EERd	6.49	-			
Degradation co-efficient or chillers (*)	C _{dc}	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	0.031	kW	Standby mode	P _{SB}	0.009	kW			
			Othe	r items						
Capacity control		variable		For air-to-water comfort chillers:			3 /la			
Sound power level, indoors / outdoors	L _{WA}	-/71	dB	air flow rate, outdoor measured	-	6150	m ³ /h			
Emissions of nitroger oxides (if applicable)	NO _x (**)	-	mg/kWh input GCV	For water / brine-to-water chillers: Rated brine or			m³/h			
GWP of the refrigerant	-	675	kg CO _{2 eq} (100years)	water flow rate, outdoor side heat exchanger			1117/11			
Standard rating conditions used Low temperature Low tem		ature applicatio	n							
Contact details SALVADOR ES PROVENA 392			CODA SA							

Model(s):			MAM-16-V9T	M-16-V9T						
Outdoor side heat exchanger of chiller:			Air to water							
Indoor side heat exchanger chiller:			Water							
Туре:			Compressor driven vapour compression							
Driver of compressor:			Electric motor							
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit			
Rated cooling capacity	P _{rated,c}	15.3	kW	Seasonal space cooling energy efficiency	$\eta_{s,c}$	268	%			
Declared cooling catemperature Tj	apacity for pa	rt load at giver	n outdoor	Declared energy eff		or part load at	given			
Tj=+35°C	P _{dc}	15.3	kW	Tj=+35°C	EERd	4.19	-			
Tj=+30°C	P _{dc}	11.3	kW	Tj=+30°C	EERd	5.94	-			
Tj=+25°C	P _{dc}	7.2	kW	Tj=+25°C	EERd	7.98	-			
Tj=+20°C	P _{dc}	3.4	kW	Tj=+20°C	EERd	8.27	-			
Degradation co-efficient for chillers (*)	C _{dc}	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	Рто	0.031	kW	Standby mode	P _{SB}	0.009	kW			
			Othe	r items						
Capacity control		variable		For air-to-water comfort chillers:			3,4			
Sound power level, indoors / outdoors	L _{WA}	-/71	dB	air flow rate, outdoor measured	-	6150	m ³ /h			
Emissions of nitroger oxides (if applicable)	NO _× (**)	-	mg/kWh input GCV	For water / brine-to-water chillers: Rated brine or			m³/h			
GWP of the refrigerant	-	675	kg CO _{2 eq} (100years)	water flow rate, outdoor side heat exchanger	<u>-</u>		m~/n			
Standard rating conditions used Medium ten		perature applic	cation							
Contact details SALVADOR ES PROVENA 392		CODA SA P2 08025 BARCEL	ONA (SPAIN)							
(*) If Cdc is not de (**) From 26 Septe		measurement t	then the defaul	t degradation coefficien	t of chillers sh	nall be 0,9.				

	Mode			Heatin	ıg		Coc	ling
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
MAM-5-V9M	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
MAM-7-V9M	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
MAM-9-V9M	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
MAM-12-V9M	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
MAM-14-V9M	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
MAM-16-V9M	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
MAM-12-V9T	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
MAM-14-V9T	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
MAM-16-V9T	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

NOTE





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ASK FOR MORE INFORMATION

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TECHNICAL ASSISTANCE

Phone: (+34) 93 652 53 57

规格: A4

材料:封面、封底为105g铜版纸

内页为100g双胶纸

更改记录 (本页不打印) N81120281 V1.0-V2.0

- 1、材料内页改为100g双胶纸
- 2、封底升级版本
- 3、所以页面均有参数变更