

MONOBLOC UNIT - AEROTHERM V17

Technical Data Manual





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

SO30173 to SO30181 English

Product	fiche 1										
Heat pum	p space heater	unit	5KW	7KW	10KW	12KW	14KW	16KW	12KW (TRIF.)	14KW (TRIF.)	16KW (TRIF.)
Indoor unit sou	nd power (*)	[dB(A)]	1	/	/	/	/	1	/	/	/
Outdoor unit so	ound power (*)	[dB(A)]	61	65	66	67	71	71	68	71	71
Capacity of the back-up heater integrated in the unit	Psup back-up heater	[kW]	0	0	3	3	3	3	5	5	5
off peak operati	on function integrated	Y/N	No	No	No	No	No	No	No	No	No
Space heating	Energy efficiency class 35°C (Low temp. app.)	-	A+++	A+++	A+++	A+++	A+++	A+++	A+++	A+++	A+++
Space heating	Energy efficiency class 55°C (Medium temp. app.)	-	A+	A+	A+	A+	A+	A++	A+	A++	A++
Average climate	e (Design temperature :	= –10°C)	1								
Crease basting	Prated (declared heating capacity) @ – 10°C	[kW]	5	7	10	12	14	16	12	14	16
35°C	Seasonal space heating efficiency (ŋs)	[%]	176	178	162	166	173	167	175	168	164
	Annual energy consumption	[kWh]	2,143	2,989	4,896	6,312	6,630	7,957	5,544	6,551	8,002
Crease basting	Prated (declared heating capacity) @ – 10°C	[kW]	5	7	9	10	13	14	10	13	14
55°C	Seasonal space heating efficiency (ŋs)	[%]	115	120	102	123	123	125	122	128	126
	Annual energy consumption	[kWh]	3,233	4,412	7,303	6,555	8,525	8,973	6,929	8,291	9,172
Part load condi	tions space heating ave	erage clin	nate low te	emperature	application	ı					
	Pdh (declared heating capacity)	[kW]	4.1	5.80	9.1	11.4	12.8	13.5	10.6	12.0	12.0
(A) condition (-7°C)	COPd (declared COP)	-	2.85	2.80	2.74	2.92	2.78	2.78	2.83	2.66	2.65
	Cdh(degradation coefficient)	-	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90
	Pdh (declared heating capacity)	[kW]	2.4	3.6	5.3	6.7	7.8	9.0	6.6	7.2	8.6
(B) condition (2°C)	COPd (declared COP)	-	4.53	4.18	4.10	4.25	4.09	3.99	4.08	3.97	3.97
	Cdh(degradation coefficient)	-	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90
	Pdh (declared heating capacity)	[kW]	1.7	2.3	3.5	4.4	4.8	6.1	4.4	4.9	5.6
(C) condition (7°C)	COPd (declared COP)	-	6.09	6.39	5.90	6.42	6.12	6.12	6.22	6.36	6.03
	Cdh(degradation coefficient)	-	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90
	Pdh (declared heating capacity)	[kW]	1.3	1.4	1.4	2.0	3.1	3.1	3.7	3.8	4.0
(D) condition (12°C)	COPd (declared COP)	-	8.95	9.24	4.40	6.48	8.83	7.84	9.37	9.00	8.54
	Cdh(degradation coefficient)	-	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90

Product	fiche 2										
Heat pum	p space heater	unit	5KW	7KW	10KW	12KW	14KW	16KW	12KW (TRIF.)	14KW (TRIF.)	16KW (TRIF.)
	Tol (temperature operating limit)	[°C]	-10	-10	-10	-10	-10	-10	-10	-10	-10
(E) Tol	Pdh (declared heating capacity)	[kW]	4.2	6.3	9.8	10.7	11.8	11.6	10.9	10.8	11.0
(temperature operating limit)	COPd (declared COP)	-	2.63	2.61	2.48	2.60	2.59	2.38	2.47	2.41	2.36
	WTOL (Heating water Operation Limit)	[°C]	49	49	49	49	49	49	49	49	49
	Tblv	[°C]	-7	-7	-10	-7	-8	-6	-7	-7	-5
(F) Tbivalent temperature	Pdh (declared heating capacity)	[kW]	4.1	5.8	9.8	11.4	13.0	13.9	10.6	12.0	13.0
	COPd (declared COP)	-	2.85	2.80	2.48	2.92	2.84	2.80	2.83	2.66	2.90
Supplementary capacity at P_design	Psup (@Tdesignh: – 10°C)	[kW]	0.5	0.3	0	2.1	2.2	4.8	1.1	2.7	5.2
Part load condi	itions space heating ave	rage clir	mate medii	um tempera	ature applic	cation			-		
	Pdh (declared heating capacity)	[kW]	4.1	5.8	8.2	8.9	11.5	12.3	9.2	11.6	11.7
(A) condition (-7°C)	COPd (declared COP)	-	1.90	1.98	1.85	1.96	1.95	2.02	2.00	2.02	1.99
	Cdh(degradation coefficient)	-	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90
	Pdh (declared heating capacity)	[kW]	2.5	3.5	4.9	5.6	7.3	7.9	5.6	7.5	7.8
(B) condition (2°C)	COPd (declared COP)	-	2.91	3.01	2.69	3.07	2.95	3.05	3.01	3.10	3.02
	Cdh(degradation coefficient)	-	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90
	Pdh (declared heating capacity)	[kW]	1.6	2.3	3.1	3.8	4.6	5.1	3.7	4.7	5.1
(C) condition (7°C)	COPd (declared COP)	-	3.70	4.17	3.54	4.39	4.58	4.57	4.27	4.68	4.70
	Cdh(degradation coefficient)	-	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90
	Pdh (declared heating capacity)	[kW]	1.0	0.9	1.5	1.7	2.3	2.1	2.8	2.8	2.8
(D) condition (12°C)	COPd (declared COP)	-	4.53	4.68	2.86	4.23	5.18	4.77	5.26	5.20	5.28
	Cdh(degradation coefficient)	-	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90
	Tol (temperature operating limit)	[°C]	-10	-10	-10	-10	-10	-10	-10	-10	-10
(E) Tol	Pdh (declared heating capacity)	[kW]	4.6	6.0	9.3	9.4	10.7	10.2	10.5	11.7	10.6
operating limit)	COPd (declared COP)	-	1.71	1.72	1.67	1.71	1.71	1.68	1.85	1.77	1.78
	WTOL (Heating water Operation Limit)	[°C]	49	49	49	49	49	49	49	49	49
	Tblv	[°C]	-7	-7	-10	-7	-7	-7	-10	-7	-6
(F) Tbivalent temperature	Pdh (declared heating capacity)	[kW]	4.1	5.8	9.3	8.9	11.5	12.3	10.5	11.6	12.1
	COPd (declared COP)	-	1.90	1.98	1.67	1.96	1.95	2.02	1.85	2.02	2.09
Supplementary capacity at P_design	Psup (@Tdesignh: – 10°C)	[kW]	0	0.6	0	0.6	2.3	3.7	0	1.5	3.7

Product	fiche 3										
Heat pump	space heater	unit	5KW	7KW	10KW	12KW	14KW	16KW	12KW (TRIF.)	14KW (TRIF.)	16KW (TRIF.)
Colder climate	(Design temperature =	–22°C)									
	Prated (declared heating capacity) @ – 22°C	[kW]	5	7	11	12	14	16	12	14	16
Space heating 35°C	Seasonal space heating efficiency (ηs)	[%]	133	158	132	144	136	131	145	145	121
	Annual energy consumption	[kWh]	3,331	4,116	7,747	8,175	10,032	12,145	8,515	9,430	12,724
	Prated (declared heating capacity) @ – 22°C	[kW]	5	7	10	11	12	15	11	12	15
Space heating 55°C	Seasonal space heating efficiency (ηs)	[%]	100	106	99	94	94	99	108	108	111
	Annual energy consumption	[kWh]	4,459	6,436	9,946	12,303	12,303	14,341	10,958	10,956	13,021
Part load condi	tions space heating colo	der clim	ate low tem	nperature a	pplication						
	Pdh (declared heating capacity)	[kW]	3.7	5.5	8.6	9.8	9.9	9.9	10.0	10.3	9.6
condition (-15°C)	COPd (declared COP)	-	2.23	2.41	2.35	2.33	2.21	2.21	2.43	2.42	2.15
``	Cdh(degradation coefficient)	-	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90
	Pdh (declared heating capacity)	[kW]	2.7	4.0	6.3	7.5	8.9	10.0	7.6	9.2	9.4
(A) condition (-7°C)	COPd (declared COP)	-	3.04	3.25	3.11	3.14	2.90	2.81	3.19	3.15	2.74
· · ·	Cdh(degradation coefficient)	-	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90
	Pdh (declared heating capacity)	[kW]	1.6	2.5	3.8	4.7	5.2	6.2	4.7	6.0	6.3
(B) condition (2°C)	COPd (declared COP)	-	3.91	5.16	4.01	4.44	4.19	4.12	4.57	4.55	3.66
. ,	Cdh(degradation coefficient)	-	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90
	Pdh (declared heating capacity)	[kW]	1.3	1.8	2.4	3.0	3.4	4.0	3.0	3.5	4.0
(C) condition (7°C)	COPd (declared COP)	-	5.98	7.13	5.82	6.10	5.85	5.91	6.06	6.03	5.47
	Cdh(degradation coefficient)	-	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90
	Pdh (declared heating capacity)	[kW]	1.2	1.1	1.1	2.9	4.4	2.7	2.6	2.6	3.1
(D) condition (12°C)	COPd (declared COP)	-	8.59	7.57	3.56	8.92	8.72	6.88	5.76	5.65	6.10
	Cdh(degradation coefficient)	-	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90
	Tol (temperature operating limit)	[°C]	-20	-20	-20	-20	-20	-20	-20	-20	-20
(E) Tol	Pdh (declared heating capacity)	[kW]	4.5	4.9	8.2	8.2	8.3	7.6	8.4	8.4	7.6
(temperature operating limit)	COPd (declared COP)	-	1.83	2.00	1.87	1.85	1.88	1.68	2.02	2.00	1.73
	WTOL (Heating water Operation Limit)	[°C]	40	40	40	40	40	40	40	40	40
	Tblv	[°C]	-15	-15	-15	-15	-12	-11	-14	-13	-11
(F) Tbivalent temperature	Pdh (declared heating capacity)	[kW]	3.7	5.5	8.6	9.8	10.4	11.8	10.1	10.8	11.4
	COPd (declared COP)	-	2.23	2.41	2.35	2.33	2.36	2.51	2.50	2.58	2.42
Supplementary capacity at P_design	Psup (@Tdesignh: – 22°C)	[kW]	0	1.5	1.8	3.2	5.0	8.9	3.7	4.9	7.5

Product	fiche 4										
Heat pump	space heater	unit	5KW	7KW	10KW	12KW	14KW	16KW	12KW (TRIF.)	14KW (TRIF.)	16KW (TRIF.)
Part load condi	tions space heating cold	der clima	ate mediun	n temperat	ure applica	tion					
	Pdh (declared heating capacity)	[kW]	3.8	5.0	8.4	10.1	10.1	9.0	9.3	9.3	9.2
condition (-15°C)	COPd (declared COP)	-	1.66	1.66	1.68	1.82	1.82	1.64	1.80	1.80	1.72
	Cdh(degradation coefficient)	-	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90
	Pdh (declared heating capacity)	[kW]	3.0	4.4	6.2	7.8	7.8	8.8	7.8	7.8	9.3
(A) condition (-7°C)	COPd (declared COP)	-	2.12	2.26	2.17	2.14	2.14	2.20	2.32	2.32	2.34
	Cdh(degradation coefficient)	-	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90
	Pdh (declared heating capacity)	[kW]	1.7	2.5	3.9	4.4	4.4	5.3	4.5	4.5	5.7
(B) condition (2°C)	COPd (declared COP)	-	3.01	3.43	3.00	2.77	2.77	3.20	3.35	3.35	3.53
	Cdh(degradation coefficient)	-	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90
	Pdh (declared heating capacity)	[kW]	1.2	1.6	2.5	2.9	2.9	3.4	2.9	2.9	3.6
(C) condition (7°C)	COPd (declared COP)	-	3.91	4.39	4.09	4.16	4.16	4.52	4.44	4.44	4.68
	Cdh(degradation coefficient)	-	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90
	Pdh (declared heating capacity)	[kW]	1.1	1.0	1.2	1.3	1.3	2.5	2.4	2.4	3.6
(D) condition (12°C)	COPd (declared COP)	-	5.84	5.39	3.10	3.33	3.33	6.41	4.73	4.73	7.08
	Cdh(degradation coefficient)	-	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90
	Tol (temperature operating limit)	[°C]	-20	-20	-20	-20	-20	-20	-20	-20	-20
(E) Tol (temperature	Pdh (declared heating capacity)	[kW]	4.2	4.2	7.1	7.1	7.1	6.4	7.3	7.3	7.0
operating limit)	COPd (declared COP)	-	1.37	1.34	1.31	1.29	1.29	1.16	1.40	1.40	1.34
	WTOL (Heating water Operation Limit)	[°C]	40	40	40	40	40	40	40	40	40
	Tblv	[°C]	-15	-13	-15	-11	-11	-11	-14	-14	-11
(F) Tbivalent temperature	Pdh (declared heating capacity)	[kW]	3.8	5.4	8.4	8.6	8.6	10.6	9.8	9.8	10.7
	COPd (declared COP)	-	1.66	1.77	1.68	1.59	1.59	1.86	1.89	1.89	1.99
Supplementary capacity at P_design	Psup (@Tdesignh: – 22°C)	[kW]	0.2	2.5	2.6	4.4	4.4	8.5	4.4	4.4	7.2
Warmer climat	e (Design temperature =	=2°C)									
	Prated (declared heating capacity) @ 2 °C	[kW]	5	7	10	12	14	15	12	14	15
Space heating 35°C	Seasonal space heating efficiency (ns)	[%]	229	248	272	251	237	218	250	188	212
	Annual energy consumption	[kWh]	1,105	1,392	2,021	2,565	3,223	3,569	2,580	4,023	3,756
0	Prated (declared heating capacity) @ 2 °C	[kW]	5	7	10	12	12	15	12	12	15
Space heating 55°C	Seasonal space heating efficiency (ŋs)	[%]	145	167	153	159	160	155	149	147	169
	Annual energy consumption	[kWh]	1,660	2,121	3,534	3,967	3,928	4,963	4,386	4,445	4,773

Product	fiche 5										
Heat pump	space heater	unit	5KW	7KW	10KW	12KW	14KW	16KW	12KW (TRIF.)	14KW (TRIF.)	16KW (TRIF.)
Part load condi	tions space heating war	mer clin	nate low te	emperature	application	า					
	Pdh (declared heating capacity)	[kW]	4.7	6.6	10.1	12.9	14.0	14.0	12.4	13.7	12.6
(B) condition (2°C)	COPd (declared COP)	-	3.82	3.45	3.89	3.53	2.98	2.98	3.45	3.21	2.94
	Cdh(degradation coefficient)	-	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90
	Pdh (declared heating capacity)	[kW]	3.1	4.2	6.7	7.9	9.3	9.3	7.8	9.2	9.7
(C) condition (7°C)	COPd (declared COP)	-	5.70	5.59	5.61	5.47	5.17	5.17	5.54	5.31	5.29
	Cdh(degradation coefficient)	-	0.90	0.90	0.9	0.90	0.9	0.90	0.9	0.90	0.9
	Pdh (declared heating capacity)	[kW]	1.3	2.1	3.9	3.5	4.2	4.2	3.9	3.8	4.3
(D) condition (12°C)	COPd (declared COP)	-	7.76	8.15	10.18	8.38	8.01	8.01	7.91	7.51	7.06
	Cdh(degradation coefficient)	-	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90
	Tol (temperature operating limit)	[°C]	2	2	2	2	2	2	2	2	2
(E) Tol	Pdh (declared heating capacity)	[kW]	4.7	6.6	10.1	12.9	14.0	14.0	12.4	13.7	12.6
operating limit)	COPd (declared COP)	-	3.82	3.45	3.89	3.53	2.98	2.98	3.45	3.21	2.94
	WTOL (Heating water Operation Limit)	[°C]	60	60	60	60	60	60	60	60	60
	ТЫ∨	[°C]	7	7	7	7	7	7	7	7	7
(F) Tbivalent temperature	Pdh (declared heating capacity)	[kW]	3.1	4.2	6.7	7.9	9.3	9.3	7.8	9.2	9.7
	COPd (declared COP)	-	5.70	5.59	5.61	5.47	5.17	5.17	5.54	5.31	5.29
Supplementary capacity at P_design	Psup (@Tdesignh: 2° C)	[kW]	0.1	0	0.3	0	0.5	0.8	0	0.6	2.6
Part load condi	tions space heating war	mer clin	nate mediu	um temper	ature applio	cation					
	Pdh (declared heating capacity)	[kW]	4.7	6.8	10.2	12.5	12.5	14.3	12.2	12.2	13.8
(B) condition (2°C)	COPd (declared COP)	-	2.07	2.18	2.35	2.37	2.37	2.27	2.42	2.42	2.43
	Cdh(degradation coefficient)	-	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90
	Pdh (declared heating capacity)	[kW]	3.0	4.4	6.6	7.7	7.7	9.2	8.0	8.0	9.9
(C) condition (7°C)	COPd (declared COP)	-	3.29	3.45	3.38	3.37	3.37	3.33	3.50	3.50	3.66
	Cdh(degradation coefficient)	-	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90
	Pdh (declared heating capacity)	[kW]	1.4	2.1	3.0	3.6	3.6	4.2	3.4	3.4	4.6
(D) condition (12°C)	COPd (declared COP)	-	4.74	6.01	4.95	5.35	5.35	5.62	5.25	5.25	5.96
	Cdh(degradation coefficient)	-	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90
	Tol (temperature operating limit)	[°C]	2	2	2	2	2	2	2	2	2
(E) Tol (temperature	Pdh (declared heating capacity)	[kW]	4.7	6.8	10.2	12.5	12.5	14.3	12.2	12.2	13.8
operating limit)	COPd (declared COP)	-	2.07	2.18	2.35	2.37	2.37	2.27	2.42	2.42	2.43
	WTOL (Heating water Operation Limit)	[°C]	60	60	60	60	60	60	60	60	60

Product	fiche 6										
Heat pump	space heater	unit	5KW	7KW	10KW	12KW	14KW	16KW	12KW (TRIF.)	14KW (TRIF.)	16KW (TRIF.)
	Tblv	[°C]	7	7	7	7	7	7	7	7	7
(F) Tbivalent temperature	Pdh (declared heating capacity)	[kW]	3.0	4.4	6.6	7.7	7.7	9.2	8.0	8.0	9.9
	COPd (declared COP)	-	3.29	3.45	3.38	3.37	3.37	3.33	3.50	3.50	3.66
Supplementary capacity at P_design	Psup (@Tdesignh: – 10°C)	[kW]	0	0	0.1	0	0	0.4	0.3	0.3	1.6
Ecodesign teo	chnical data										
	Air-to-water heat pump	Y/N	Yes	Yes	Yes						
	Water-to-water heat pump	Y/N	No	No	No						
Product	Brine-to-water heat pump	Y/N	No	No	No						
description	Low-temperature heat pump	Y/N	No	No	No						
	Equipped with a supplementary heater	Y/N	No	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	Heat pump combination heater	Y/N	No	No	No						
Air to water unit	Rated airflow (outdoor)	[m ³ /h]	3100	3100	6250	6250	6250	6250	6250	6250	6250
Brine/water to water unit	Rated water/brine flow (outdoor H/E)	[m ³ /h]	1	/	/	/	/	/	/	/	/
	Capacity control	-	Inverter	Inverter	Inverter						
	Poff (Power consumption Off mode)	[kW]	0.016	0.016	0.017	0.017	0.017	0.017	0.027	0.027	0.027
	Pto (Power consumption Thermostat off mode)	[kW]	0.016	0.016	0.006	0.006	0.006	0.006	0.006	0.006	0.006
Other	Psb (Power consumption Standby mode)	[kW]	0.016	0.016	0.017	0.017	0.017	0.017	0.027	0.027	0.027
	PCK (Power crankcase heater model)	[kW]	0.034	0.034	0.018	0.018	0.018	0.018	0.001	0.001	0.001
	Qelec (Daily electricity consumption)	[kWh]	/	/	/	/	/	/	/	/	/
	Qfuel (Daily fuel consumption)	[kWh]	/	/	/	/	/	/	/	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.

			Technic	cal parameters			
Model(s):				MONOBLOC AEROTHERM V17	(5KW)		
Air-to-water heat pump:		YES			<u> </u>		
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					
Parameters shall be declared for shall be declared for low-tempera	medium-temp ature applicatio	perature application.	ation, except f	for low-temperature heat pumps. For	or low-temperature	e heat pumps, p	arameters
Parameters shall be declared for	r average, col	der and warm	er climate con	iditions.			
ltem	Symbol	Value	Unit	ltem	Symbol	Value	Unit
Rated heat output (*)	Prated	5	kW	Seasonal space heating energy efficiency	ηs	115	%
Declared capacity for heating for and outdoor temperature Tj	r part load at	indoor temper	ature 20 °C	Declared coefficient of perform indoor temperature 20 °C and	ance or primary outdoor temperatu	energy ratio for ure Tj	part load at
Tj = -7	Pdh	4.1	kW	Tj = -7	COPd	1.90	-
Tj = 2	Pdh	2.5	kW	Tj = 2	COPd	2.91	-
Tj = 7	Pdh	1.6	kW	Tj = 7	COPd	3.70	-
Tj = 12	Pdh	1.0	kW	Tj = 12	COPd	4.53	-
Tj = bivalent temperature	Pdh	4.1	kW	Tj = bivalent temperature	COPd	1.90	-
Tj = operating limit	Pdh	4.6	kW	Tj = operating limit	COPd	1.71	-
For air-to-water heat pumps: Tj = -15	Pdh	-	kW	For air-to-water heat pumps: Tj = -15	COPd	-	-
Bivalent temperature	T _{biv}	-7	°C	For air-to-water heat pumps: Operation limit temperature	TOL	-10	°C
Cycling interval capacity for heating	P _{cych}	-	kW	Cycling interval efficiency	COP _{cyc} or PERcyc	-	%
Degradation co-efficient (**)	C _{dh}	0.9		Heating water operating limit temperature	W _{TOL}	49	°C
Power consumption in modes of	ther than activ	ve mode		Supplementary heater			
off mode	Poff	0.016	kW	Rated heat output (**)	Psup	0	kW
standby mode	P _{sb}	0.016	kW		1 oup		
thermostat-off mode	Pto	0.016	kW	Type of energy input		-	
crankcase heater mode	P _{ck}	0.034	KVV				
Other items				1	4		
Capacity control		variable		For air-to-water heat pumps: Rated air flow rate, outdoors	_	3100	m³/h
Sound power level, indoors/ outdoors	Lwa	-/61	dB	For water- or brine-to-water heat pumps: Rated brine or		_	m ³ /h
Annual energy consumption	Q _{HE}	3233	kWh	water flow rate, outdoor neat exchanger			
For heat pump combination hea	ter:						
Declared load profile		-		Water heating energy efficiency	η _{wh}	-	%
Daily electricity consumption	Q _{elec}	-	kWh	Daily fuel consumption	Q _{fuel}	-	kWh
Annual electricity consumption	AEC	-	kWh	Annual fuel consumption	AFC	-	GJ
Contact details	SALVADO	R ESCODA SA A, 392 P2, BAR	CELONA (SPAIN	N)			
(*) For boot nump appear bootor	a and beat a	ump combinat	ion hootoro th	he reted heat output Drated is ag	al to the decign	load for bootin	a Ddooianh

Technical parameters											
Model(s):				MONOBLOC AEROTHERM	V17 (7KW)						
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 he	eater:	NO									
Heat pump combination heater:		NO									
Parameters shall be declared for shall be declared for low-temperat	medium-temp ure application	perature applic	ation, except f	or low-temperature heat pumps. Fo	or low-temperature	heat pumps,	parameters				
Parameters shall be declared for	average, col	der and warm	er climate con	ditions.							
Item	Symbol	Value	Unit	ltem	Symbol	Value	Unit				
Rated heat output (*)	Prated	7	kW	Seasonal space heating energy efficiency	ηs	120	%				
Declared capacity for heating for and outdoor temperature Tj	part load at	indoor temper	ature 20 °C	Declared coefficient of perform indoor temperature 20 °C and	ance or primary e outdoor temperatu	energy ratio for re Tj	part load at				
Tj = -7	Pdh	5.8	kW	Tj = -7	COPd	1.98	-				
Tj = 2	Pdh	3.5	kW	Tj = 2	COPd	3.01	-				
Tj = 7	Pdh	2.3	kW	Tj = 7	COPd	4.17	-				
Ti = 12	Pdh	0.9	kW	Ti = 12	COPd	4.68	-				
Tj = bivalent temperature	Pdh	5.8	kW	Tj = bivalent temperature	COPd	1.98	-				
Ti = operating limit	Pdh	6.0	kW	Ti = operating limit	COPd	1.72	-				
	Pdh	-	kW	For air-to-water heat pumps: Tj = -15	COPd	-	-				
Bivalent temperature	T _{biv}	-7	°C	For air-to-water heat pumps: Operation limit temperature	TOL	-10	°C				
	P_{cych}	-	kW	Cycling interval efficiency	COP _{cyc} or PERcyc	-	%				
Degradation co-efficient (**)	C _{dh}	0.9		Heating water operating limit temperature	W _{TOL}	49	°C				
Power consumption in modes other	er than activ	e mode		Supplementary heater							
off mode	Poff	0.016	kW	Rated heat output (**)	Psup	0.6	kW/				
standby mode	Psb	0.016	kW		i sup	0.0	KVV				
thermostat-off mode	P _{to}	0.016	kW	Type of energy input		-					
crankcase heater mode	P _{ck}	0.034	kW								
Other items											
Capacity control		variable		For air-to-water heat pumps: Rated air flow rate, outdoors	_	3100	m³/h				
Sound power level, indoors/ outdoors	L _{WA}	-/65	dB	For water- or brine-to-water heat pumps: Rated brine or			m ³ /b				
Annual energy consumption	Q _{HE}	4412	kWh	water flow rate, outdoor heat exchanger	-						
For heat pump combination heate	r:										
Declared load profile		-		Water heating energy efficiency	η _{wh}	-	%				
Daily electricity consumption	Q _{elec}	-	kWh	Daily fuel consumption	Q _{fuel}	-	kWh				
Annual electricity consumption	AEC	-	kWh	Annual fuel consumption	AFC	-	GJ				
Contact details	SALVADOR	ESCODA SA , 392 P2, BARC	ELONA (SPAIN)								

			Technic	al parameters			
Model(s):				MONOBLOC AEROTHER	M V17 (10KW)		
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 he	eater:	YES					
Heat pump combination heater:		NO					
Parameters shall be declared for r shall be declared for low-temperati	nedium-temp ure applicatio	erature applic m.	ation, except f	or low-temperature heat pumps. Fo	or low-temperature	heat pumps, p	parameters
Parameters shall be declared for a	average, colo	ler and warm	er climate con	ditions.			
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	9	kW	Seasonal space heating energy efficiency	ηs	102	%
Declared capacity for heating for and outdoor temperature Tj	part load at	indoor temper	ature 20 °C	Declared coefficient of perform indoor temperature 20 °C and	ance or primary o outdoor temperatu	energy ratio for re Tj	part load at
Tj = -7	Pdh	8.2	kW	Tj = -7	COPd	1.85	-
Ti = 2	Pdh	4.9	kW	Ti = 2	COPd	2.69	-
- <u>-</u> Tj = 7	Pdh	3.1	kW	Tj = 7	COPd	3.54	-
Ti = 40	Pdh	1.5	kW	T - 12	COPd	2.86	-
Tj = 12 Tj = bivalent temperature	Pdh	9.3	kW	Tj = bivalent temperature	COPd	1.67	-
Ti = operating limit	Pdh	9.3	kW	Ti = operating limit	COPd	1.67	-
For air-to-water heat pumps: Ti = -15	Pdh	-	kW	For air-to-water heat pumps: Ti = -15	COPd	-	-
Bivalent temperature	T _{biv}	-10	°C	For air-to-water heat pumps: Operation limit temperature	TOL	-10	°C
Cycling interval capacity for heating	P _{cych}	-	kW	Cycling interval efficiency	COP _{cy c} or PERcyc	-	%
Degradation co-efficient (**)	C _{dh}	0.9	-	Heating water operating limit temperature	W _{TOL}	49	°C
Power consumption in modes othe	er than activ	e mode	4	Supplementary heater	1		<u> </u>
off mode	Poff	0.017	kW		_		
standby mode	P _{sb}	0.017	kW	Rated heat output (**)	Psup	0	kW
thermostat-off mode	P _{to}	0.006	kW	Type of energy input		Electrical	
crankcase heater mode	P _{ck}	0.018	kW	Type of energy input		Lioouriou	
Other items							
Capacity control		variable		For air-to-water heat pumps: Rated air flow rate, outdoors	_	6250	m³∕h
Sound power level, indoors/	Lwa	-/66	dB	For water- or brine-to-water			
outdoors 	Que	7303	kWh	heat pumps: Rated brine or water flow rate, outdoor heat exchanger	-	-	m³/h
For heat nump combination heate	r.	1000					
i or near pump combination fleate				Water besting anarry			
Declared load profile		-	1	efficiency	η _{wh}	-	%
Daily electricity consumption	Q _{elec}	-	kWh	Daily fuel consumption	Q _{fuel}	-	kWh
Annual electricity consumption	AEC	-	kWh	Annual fuel consumption	AFC	-	GJ
Contact details	SALVADOR PROVENZA	RESCODA SA A, 392 P2, BAR(CELONA (SPAIN	()			
(*) For boot nump oncor bootom				a noted baset subsuit Destand is seen	مراجع المراجع المراجع		- Ddeeleeb

Model(s):				MONOBLOC AEROTHERM	l V17 (12KW)		
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 he	eater:	YES					
Heat pump combination heater:		NO					
Parameters shall be declared for shall be declared for shall be declared for low-temperat	medium-temp ure application	perature applic on.	cation, except f	for low-temperature heat pumps. Fo	or low-temperate	ure heat pumps,	p
Parameters shall be declared for	average, col	der and warm	ner climate cor	nditions.			
ltem	Symbol	Value	Unit	Item	Symbol	Value	
Rated heat output (*)	Prated	10	kW	Seasonal space heating energy efficiency	ηs	123	
Declared capacity for heating for p and outdoor temperature Tj	part load at	indoor temper	ature 20 °C	Declared coefficient of perform indoor temperature 20 °C and	ance or primar outdoor temper	y energy ratio for ature Tj	p
Tj = -7	Pdh	8.9	kW	Tj = -7	COPd	1.96	
Tj = 2	Pdh	5.6	kW	Tj = 2	COPd	3.07	
Tj = 7	Pdh	3.8	kW	Tj = 7	COPd	4.39	
Tj = 12	Pdh	1.7	kW	Tj = 12	COPd	4.23	
Tj = bivalent temperature	Pdh	8.9	kW	Tj = bivalent temperature	COPd	1.96	
Tj = operating limit	Pdh	9.4	kW	Tj = operating limit	COPd	1.71	
For air-to-water heat pumps: Tj = -15	Pdh	-	kW	For air-to-water heat pumps: Tj = -15	COPd	-	
Bivalent temperature	T _{biv}	-7	°C	For air-to-water heat pumps: Operation limit temperature	TOL	-10	
Cycling interval capacity for heating	P _{cych}	-	kW	Cycling interval efficiency	COP _{cyc} or PERcyc	-	
Degradation co-efficient (**)	C _{dh}	0.9	-	Heating water operating limit temperature	W _{TOL}	49	
Power consumption in modes othe	er than activ	e mode		Supplementary heater			
off mode	P _{off}	0.017	kW	Rated beat output (**)	Psun	0.6	
standby mode	P _{sb}	0.017	kW		, sup	0.0	L
thermostat-off mode	P _{to}	0.006	kW	Type of energy input		Electrica	1
crankcase heater mode	P _{ck}	0.018	kW				
Other items							
Capacity control		variable		For air-to-water heat pumps: Rated air flow rate, outdoors	_	6250	
Sound power level, indoors/ outdoors	L _{WA}	-/67	dB	For water- or brine-to-water heat pumps: Rated brine or		_	
Annual energy consumption	Q _{HE}	6555	kWh	water flow rate, outdoor heat exchanger			
For heat pump combination heater							
Declared load profile		-		Water heating energy efficiency	η _{wh}	-	
Daily electricity consumption	Q _{elec}	-	kWh	Daily fuel consumption	Q _{fuel}	-	ľ
Annual electricity consumption	AEC	-	kWh	Annual fuel consumption	AFC	-	Ĺ
	SALVADO	R ESCODA SA					

(**) If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0,9.

			Technic	al parameters			
Model(s):				MONOBLOC AEROTHER	M V17 (14KW)		
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 he	ater:	YES					
Heat pump combination heater:		NO					
Parameters shall be declared for shall be declared for low-temperate	nedium-temp ure applicatio	erature applic n.	ation, except f	or low-temperature heat pumps. Fo	or low-temperature	heat pumps,	parameters
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	13	kW	Seasonal space heating energy efficiency	ηs	123	%
Declared capacity for heating for p and outdoor temperature Tj	oart load at	indoor tempera	ature 20 °C	Declared coefficient of perform indoor temperature 20 °C and	ance or primary e outdoor temperatur	energy ratio for re Tj	part load at
Ti = -7	Pdh	11.5	kW	Ti = -7	COPd	1.95	-
Tj = 2	Pdh	7.3	kW	Tj = 2	COPd	2.95	-
Tj = 7	Pdh	4.6	kW	Tj = 7	COPd	4.58	-
Tj = 12	Pdh	2.3	kW	Tj = 12	COPd	5.18	-
Tj = bivalent temperature	Pdh	11.5	kW	Tj = bivalent temperature	COPd	1.95	-
Tj = operating limit	Pdh	10.7	kW	Tj = operating limit	COPd	1.71	-
For air-to-water heat pumps: Tj = -15	Pdh	-	kW	For air-to-water heat pumps: Tj = -15	COPd	-	-
Bivalent temperature	T _{biv}	-7	°C	For air-to-water heat pumps: Operation limit temperature	TOL	-10	°C
Cycling interval capacity for heating	P _{cych}	-	kW	Cycling interval efficiency	COP _{cyc} or PERcyc	-	%
Degradation co-efficient (**)	C _{dh}	0.9	-	Heating water operating limit temperature	W _{TOL}	49	°C
Power consumption in modes othe	er than active	e mode		Supplementary heater			
off mode	P _{off}	0.017	kW		Davia		1-10/
standby mode	P _{sb}	0.017	kW	Rated heat output (***)	Psup	2.3	KVV
thermostat-off mode	Pto	0.006	kW	Type of energy input		Electrical	
crankcase heater mode	P _{ck}	0.018	kW	511 × × 35 + ×			
Other items							
Capacity control		variable		For air-to-water heat pumps: Rated air flow rate, outdoors	_	6250	m³/h
Sound power level, indoors/ outdoors	L _{WA}	-/71	dB	For water- or brine-to-water heat pumps: Rated brine or	_	-	m ³ /h
Annual energy consumption	Q _{HE}	8525	kWh	exchanger			
For heat pump combination heater	:						
Declared load profile		-		Water heating energy efficiency	η _{wh}	-	%
Daily electricity consumption	Q _{elec}	-	kWh	Daily fuel consumption	Q _{fuel}	-	kWh
Annual electricity consumption	AEC	-	kWh	Annual fuel consumption	AFC	-	GJ
Contact details	SALVADOR PROVENZA	ESCODA SA , 392 P2, BARC	ELONA (SPAIN)			

Technical parameters											
Model(s):				MONOBLOC AEROTHERM V	/17 (16KW)						
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 he	ater:	YES									
Heat pump combination heater:		NO									
Parameters shall be declared for m shall be declared for low-temperatu	nedium-tempe ire applicatio	ərature applica ın.	ation, except fo	or low-temperature heat pumps. Fo	or low-temperature	heat pumps, p	arameters				
Parameters shall be declared for a	average, cold	ler and warme	er climate cond	ditions.							
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit				
Rated heat output (*)	Prated	14	kW	Seasonal space heating energy efficiency	ηs	125	%				
Declared capacity for heating for p and outdoor temperature Tj	art load at	indoor tempera	ature 20 °C	Declared coefficient of perform indoor temperature 20 °C and	ance or primary e outdoor temperatur	nergy ratio for e Tj	part load at				
Ti = -7	Pdh	12.3	kW	Ti = -7	COPd	2.02	-				
Π = 2	Pdh	7.9	kW	Ti = 2	COPd	3.05	-				
Ti = 7	Pdh	5.1	kW		COPd	4.57	-				
ті = 12	Pdh	2.1	kW	Ti = 12	COPd	4.77	-				
Tj = bivalent temperature	Pdh	12.3	kW	Tj = bivalent temperature	COPd	2.02	-				
Ti = operating limit	Pdh	10.2	kW	Ti = operating limit	COPd	1.68	-				
For air-to-water heat pumps: Tj = -15	Pdh	-	kW	For air-to-water heat pumps: Tj = -15	COPd	-	-				
Bivalent temperature	T _{biv}	-7	°C	For air-to-water heat pumps: Operation limit temperature	TOL	-10	°C				
Cycling interval capacity for heating	P _{cych}	-	kW	Cycling interval efficiency	COP _{cyc} or PERcyc						
Degradation co-efficient (**)	C _{dh}	0.9	-	Heating water operating limit temperature	WTOL	49	°C				
Power consumption in modes othe	r than active	e mode		Supplementary heater							
off mode	Poff	0.017	kW	Rated heat output (**)	Psup	3.7	kW				
standby mode	P _{sb}	0.017	kW	, and inclusion		0					
thermostat-off mode	P _{to}	0.006	kW	Type of energy input		Electrical					
crankcase neater mode	Pck	0.016	KVV	· · · · · · · · · · · · · · · · · · ·							
Other items											
Capacity control		variable		For air-to-water heat pumps: Rated air flow rate, outdoors	_	6250	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 heat	_	-	m ³ /h				
Annual energy consumption	Q _{HE}	8973	kWh	exchanger							
For heat pump combination heater	:										
Declared load profile		-		Water heating energy efficiency	η _{wh}	-	%				
Daily electricity consumption	Q _{elec}	-	kWh	Daily fuel consumption	Q _{fuel}	-	kWh				
Annual electricity consumption	AEC	-	kWh	Annual fuel consumption	AFC	-	GJ				
Contact details	SALVADOR PROVENZA	ESCODA SA , 392 P2, BARC	ELONA (SPAIN))							
(*) For heat pump space heaters and the rated heat output of a su (**) If Cdh is not determined by n	and heat pu ipplementary neasurement	mp combinati heater Psup then the def	on heaters, the is equal to th ault degradatio	e rated heat output Prated is equ le supplementary capacity for heat n coefficient is Cdh = 0,9.	ial to the design li ting sup(Tj).	oad for heating	J Pdesignh,				

(**) If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0,9.

Technical parameters										
Model(s):	MONOBLOC AEROTHERM V17 (12KW) (TRIF.)									
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 he	YES									
Heat pump combination heater:		NO								
Parameters shall be declared for medium-temperature application, except for low-temperature heat pumps. For low-temperature heat pumps, parameters shall be declared for low-temperature application.										
Parameters shall be declared for average, colder and warmer climate conditions.										
ltem	Symbol	Value	Unit	Item	Symbol	Value	Unit			
Rated heat output (*)	Prated	10	kW	Seasonal space heating energy efficiency	ηs	122	%			
Declared capacity for heating for p and outdoor temperature Tj	oart load at	indoor temper	ature 20 °C	Declared coefficient of perform indoor temperature 20 °C and	ance or primary e outdoor temperatur	energy ratio for re Tj	part load at			
Tj = -7	Pdh	9.2	kW	Tj = -7	COPd	2.00	-			
Tj = 2	Pdh	5.6	kW	Tj = 2	COPd	3.01	-			
Tj = 7	Pdh	3.7	kW	Tj = 7	COPd	4.27	-			
Tj = 12	Pdh	2.8	kW	Tj = 12	COPd	5.26	-			
Tj = bivalent temperature	Pdh	10.5	kW	Tj = bivalent temperature	COPd	1.85	-			
Tj = operating limit	Pdh	10.5	kW	Tj = operating limit	COPd	1.85	-			
For air-to-water heat pumps: Tj = -15	Pdh	-	kW	For air-to-water heat pumps: Tj = -15	COPd	-	-			
Bivalent temperature	T _{biv}	-10	°C	For air-to-water heat pumps: Operation limit temperature	TOL	-10	°C			
Cycling interval capacity for heating	P _{cych}	-	kW	Cycling interval efficiency	COP _{cyc} or PERcyc	-	%			
Degradation co-efficient (**)	C _{dh}	0.9	-	Heating water operating limit temperature	W _{TOL}	49	°C			
Power consumption in modes other than active mode Supplementary heater										
off mode	Poff	0.027 kW Batad hast autout (Detect hast subsut (**)	Davia	0	1-10/			
standby mode	P _{sb}	0.027	kW	Rateu neat output ()	FSup	0	K V V			
thermostat-off mode	P _{to}	0.006 kW		Type of energy input						
crankcase heater mode	P _{ck}	0.001	kW							
Other items										
Capacity control		variable		For air-to-water heat pumps: Rated air flow rate, outdoors	_	6250	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 heat	_	-	m ³ /h			
Annual energy consumption	Q _{HE}	6929	kWh	exchanger						
For heat pump combination heater:										
Declared load profile		-		Water heating energy efficiency	η _{wh}	-	%			
Daily electricity consumption	Q _{elec}	-	kWh	Daily fuel consumption	Q _{fuel}	-	kWh			
Annual electricity consumption	AEC	-	kWh	Annual fuel consumption	AFC	-	GJ			
Contact details	SALVADOR	ESCODA SA A, 392 P2, BARC	CELONA (SPAIN)						

Technical parameters									
Model(s):				MONOBLOC AEROTHERM V17	7 (14KW) (TRIF.)				
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 he	ater:	YES							
Heat pump combination heater:		NO							
Parameters shall be declared for medium-temperature application, except for low-temperature heat pumps. For low-temperature heat pumps, parameters shall be declared for low-temperature application.									
Parameters shall be declared for average, colder and warmer climate conditions.									
ltem	Symbol	Value	Unit	Item	Symbol	Value	Unit		
Rated heat output (*)	Prated	13	kW	Seasonal space heating energy efficiency	ηs	128	%		
Declared capacity for heating for p and outdoor temperature Tj	art load at	indoor tempera	ature 20 °C	Declared coefficient of perform indoor temperature 20 °C and	ance or primary e outdoor temperatur	nergy ratio for e Tj	part load at		
Ti = -7	Pdh	11.6	kW	Tj = -7	COPd	2.02	-		
Ti = 2	Pdh	7.5	kW	Ti = 2	COPd	3.10	-		
Ti = 7	Pdh	4.7	kW	Ti = 7	COPd	4.68	-		
ті = 12	Pdh	2.8	kW	Ti = 12	COPd	5.20	-		
Tj = bivalent temperature	Pdh	11.6	kW	Tj = bivalent temperature	COPd	2.02	-		
Ti = operating limit	Pdh	11.7	kW	Ti = operating limit	COPd	1.77	-		
For air-to-water heat pumps: Ti = -15	Pdh	-	kW	For air-to-water heat pumps: Ti = -15	COPd	-	-		
Bivalent temperature	T _{biv}	-7	°C	For air-to-water heat pumps: Operation limit temperature	TOL	-10	°C		
Cycling interval capacity for heating	P _{cych}	-	kW	Cycling interval efficiency	COP _{cyc} or PERcyc	-	%		
Degradation co-efficient (**)	C _{dh}	0.9		Heating water operating limit temperature	W _{TOL}	49	°C		
Power consumption in modes other than active mode Supplementary heater									
off mode	P _{off}	0.027	kW	Rated heat output (**)	Psup	1.5	kW		
standby mode	P _{sb}	0.027	kW						
thermostat-off mode	Pto	0.006 kW		Type of energy input		Electrical			
Crankcase neater mode	Fck	0.001	K V V						
Other items									
Capacity control		variable		For air-to-water heat pumps: Rated air flow rate, outdoors	_	6250	m³/h		
Sound power level, indoors/ outdoors	L _{WA}	-/71	dB	For water- or brine-to-water heat pumps: Rated brine or		_	m ³ /h		
Annual energy consumption	Q _{HE}	8291	kWh	water flow rate, outdoor mean exchanger					
For heat pump combination heater	:								
Declared load profile		-		Water heating energy efficiency	η _{wh}	-	%		
Daily electricity consumption	Q _{elec}	-	kWh	Daily fuel consumption	Q _{fuel}	-	kWh		
Annual electricity consumption	AEC	-	kWh	Annual fuel consumption	AFC	-	GJ		
Contact details SALVADOR ESCODA SA PROVENZA, 392 P2, BARCELONA (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 $sup(T_j)$. (**) If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0,9.

Technical parameters									
Model(s):			M	DNOBLOC AEROTHERM V17 (16KW) (TRIF.)					
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 he	ater:	YES							
Heat pump combination heater:		NO							
Parameters shall be declared for n shall be declared for low-temperatu	or low-temperature	heat pumps, p	oarameters						
Parameters shall be declared for average, colder and warmer climate conditions.									
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit		
Rated heat output (*)	Prated	14	kW	Seasonal space heating energy efficiency	ηs	126	%		
Declared capacity for heating for p and outdoor temperature Tj	oart load at	indoor tempera	ature 20 °C	Declared coefficient of perform indoor temperature 20 °C and	ance or primary e outdoor temperatur	energy ratio for re Tj	part load at		
Tj = -7	Pdh	11.7	kW	Tj = -7	COPd	1.99	-		
Tj = 2	Pdh	7.8	kW	Tj = 2	COPd	3.02	-		
Tj = 7	Pdh	5.1	kW	Tj = 7	COPd	4.70	-		
Ti = 12	Pdh	2.8	kW	Ti = 12	COPd	5.28	-		
Tj = bivalent temperature	Pdh	12.1	kW	Tj = bivalent temperature	COPd	2.09	-		
Ti = operating limit	Pdh	10.6 kW		Ti = operating limit	COPd	1.78	-		
For air-to-water heat pumps: Tj = -15	Pdh	-	kW	For air-to-water heat pumps: Tj = -15	COPd	-	-		
Bivalent temperature	T _{biv}	-6 °C		For air-to-water heat pumps: Operation limit temperature	TOL	-10	Ĵ		
Cycling interval capacity for heating	P _{cy ch}	- kW		Cycling interval efficiency	COP _{cyc} or PERcyc	-	%		
Degradation co-efficient (**)	C _{dh}	0.9		Heating water operating limit temperature	W _{TOL}	49	°C		
Power consumption in modes other than active mode Supplementary heater									
off mode	P _{of f}	0.027	kW	Rated heat output (**)	Psup	37	kW		
standby mode	P _{sb}	0.027	kW		i sup	0.1	KVV		
thermostat-off mode	P _{to}	0.006 kW		Type of energy input		Electrical			
crankcase neater mode	P _{ck}	0.001	KVV			Liootiloui			
Other items									
Capacity control		variable		For air-to-water heat pumps: Rated air flow rate, outdoors	_	6250	m³/h		
Sound power level, indoors/ outdoors	L _{WA}	-/71	dB	For water- or brine-to-water heat pumps: Rated brine or	_	-	m ³ /h		
Annual energy consumption	Q _{HE}	9172	kWh	exchanger					
For heat pump combination heater	:			-					
Declared load profile		-		Water heating energy efficiency	η _{wh}	-	%		
Daily electricity consumption	Q _{elec}	-	kWh	Daily fuel consumption	Q _{fuel}	-	kWh		
Annual electricity consumption	AEC	-	kWh	Annual fuel consumption	AFC	-	GJ		
Contact details SALVADOR ESCODA SA PROVENZA, 392 P2, BARCELONA (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.

	Outlet water temperature/	5KW	7KW	10KW						
Cooling consoit//k//	18	4.6	6.6	10						
Cooling capacity/kvv	7	4.6	6.6	10						
SEED	18	4.43	4.87	6.22						
SEER	7	3.20	3.39	4.49						
	Outlet water temperature/	12KW	14KW	16KW						
Cooling capacity/kW	18	12	14	15						
	7	12	13	13.5						
	18	6.64	6.18	5.88						
SEER	7	4.42	4.29	4.01						
	Outlet water temperature/	12KW (TRIF.)	14KW (TRIF.)	16KW (TRIF.)						
Cooling capacity/kW	18	12	13.5	15						
	7	12	12.5	13.5						
	18	5.78	5.72	6.19						
SEER	7	4.39	4.46	4.52						

	Ambient	Water temperature	5KW			7KW			10KW			
Mode	temperature		Capacity/ W	Power input/ W	COP/EER	Capacity/ W	Power input/ W	COP/EER	Capacity/ W	Power input/ W	COP/EER	
7/6		30-35	4580	970	4.72	6550	1450	4.52	10430	2280	4.57	
	7/6	40-45	4670	1430	3.27	6690	2050	3.26	10170	3080	3.30	
		47-55	4760	1880	2.53	6240	2390	2.61	8890	3380	2.63	
		30-35	4380	1170	3.77	6100	1690	3.61	9610	2740	3.51	
Heating	2/1	40-45	4400	1660	2.65	6250	2310	2.70	9070	3400	2.67	
		a-55	4270	1930	2.21	5990	2630	2.28	11010	4830	2.28	
		30-35	4870	1760	2.77	6120	2310	2.65	8880	3130	2.84	
	-7/-8	40-45	4640	2210	2.10	6110	2910	2.10	8700	3880	2.24	
		a-55	4350	2390	1.82	6140	3250	1.89	8620	4910	1.76	
Occilian	05/04	23-18	4550	1000	4.55	6450	1470	4.40	10250	2060	4.98	
Cooling	35/24	12-7	4550	1550	2.94	6710	2570	2.61	10440	3280	3.18	
				12KW			14KW			16KW		
Mode	Ambient temperature	Water temperature	Capacity/ W	Power input/ W	COP/EER	Capacity/ W	Power input/ W	COP/EER	Capacity/ W	Power input/ W	COP/EER	
		30-35	12170	2730	4.46	14760	3400	4.34	16330	3900	4.19	
Heating 2/1	7/6	40-45	12580	3860	3.26	14080	4470	3.15	16120	5220	3.09	
		47-55	10550	3840	2.75	11640	4380	2.66	13430	5220	2.57	
	2/1	30-35	11150	3130	3.56	12170	3640	3.34	13100	4110	3.19	
		40-45	10550	3950	2.67	10880	4260	2.55	12520	4740	2.64	
		a-55	12350	5000	2.47	12370	5290	2.34	13210	5630	2.35	
		30-35	9720	3610	2.69	9870	3820	2.58	11340	4100	2.77	
-7/-8	-7/-8	40-45	9170	4330	2.12	9540	4650	2.05	10920	5130	2.13	
		a-55	10130	5640	1.80	10600	6100	1.74	11300	6300	1.79	
Cooling	25/24	23-18	12190	2650	4.60	14610	3320	4.40	14820	3660	4.05	
Cooling	33/24	12-7	12210	4170	2.93	12950	4530	2.86	13720	5160	2.66	
	Ambient	Water		<u>12KW</u> (TR	IF.)	14KW (TRIF.)			16KW (TRIF.)			
Mode	temperature	temperature	Capacity/ W	Power input/ W	COP/EER	Capacity/ W	Power input/ W	COP/EER	Capacity/ W	Power input/ W	COP/EER	
	7/6	30-35	12370	2760	4.48	14100	3260	4.33	16300	3880	4.20	
		40-45	12020	3720	3.23	14110	4460	3.16	16060	5230	3.07	
Heating		47-55	12510	4430	2.82	14410	5160	2.79	16150	5860	2.76	
		30-35	11580	3380	3.43	12740	3780	3.37	14190	4420	3.21	
	2/1	40-45	12460	4390	2.84	12160	4610	2.64	14080	5350	2.63	
		a-55	12180	5090	2.39	11800	5280	2.24	12170	5500	2.21	
		30-35	11690	4270	2.74	11880	4390	2.71	12140	4430	2.74	
	-7/-8	40-45	11650	5080	2.29	10950	5080	2.16	11810	5350	2.21	
		a-55	10610	5710	1.86	10910	5920	1.84	10640	6160	1.73	
	07/0	23-18	12640	2750	4.60	14030	3260	4.30	15100	3780	4.00	
Cooling	35/24	12-7	12580	4320	2.91	13800	5140	2.68	15260	6410	2.38	

*a-With the water flow rate as determined during the "7/6 47-55" test.





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