



TM

En



AOWD-SPACE II AIWD-URBAN II

Serie

AOWD_AIWD URBAN II

Edition

02/21

Models

AOWD-SPACE II 40 AIWD-SPACE II 60
AOWD-SPACE II 60 AIWD-SPACE II 100
AOWD-SPACE II 80 AIWD-SPACE II 160
AOWD-SPACE II 100
AOWD-SPACE II 120 (T)
AOWD-SPACE II 140 (T)
AOWD-SPACE II 160 (T)

Model		For low - temperature application											
Outdoor unit	Indoor unit	Energy efficiency class	Indoor unit sound power	Outdoor unit sound power	average climate			colder climate			warmer climate		
					Rated heat output	Seasonal space heating energy efficiency	For space heating, annual energy consumption	Rated heat output	Seasonal space heating energy efficiency	For space heating, annual energy consumption	Rated heat output	Seasonal space heating energy efficiency	For space heating, annual energy consumption
			dB	dB	kW	%	kWh	kW	%	kWh	kW	%	kWh
AOWD SPACE II 40	A1WD URBAN II 100	A+++	38	56	5.5	191.0	2351	4.6	159.5	2769	5.5	255.4	1146
AOWD SPACE II 60	A1WD URBAN II 100	A+++	38	58	6.8	195.0	2845	5.6	165.3	3300	6.1	259.8	1244
AOWD SPACE II 80	A1WD URBAN II 100	A+++	42	59	8.1	205.6	3218	7.0	170.0	3976	8.1	276.6	1551
AOWD SPACE II 100	A1WD URBAN II 100	A+++	42	60	9.2	204.8	3644	7.7	169.8	4423	8.6	280.5	1617
AOWD SPACE II 120	A1WD URBAN II 160	A+++	43	64	12.0	189.4	5152	11.4	160.2	6870	11.1	256.1	2292
AOWD SPACE II 140	A1WD URBAN II 160	A+++	43	65	13.7	185.7	6012	12.6	159.6	7667	12.1	260.3	2457
AOWD SPACE II 160	A1WD URBAN II 160	A+++	43	68	15.2	181.7	6804	13.7	157.8	8431	13.1	248.5	2781
AOWD SPACE II 120T	A1WD URBAN II 160	A+++	43	64	12.0	189.3	5153	11.4	160.2	6871	11.1	255.6	2296
AOWD SPACE II 140T	A1WD URBAN II 160	A+++	43	65	13.7	185.6	6013	12.6	159.6	7667	12.1	259.8	2462
AOWD SPACE II 160T	A1WD URBAN II 160	A+++	43	68	15.2	181.6	6805	13.7	157.8	8431	13.1	248.1	2786

Model		For medium – temperature application											
Outdoor unit	Indoor unit	Energy efficiency class	Indoor unit sound power	Outdoor unit sound power	average climate			colder climate			warmer climate		
					Rated heat output	Seasonal space heating energy efficiency	For space heating, annual energy consumption	Rated heat output	Seasonal space heating energy efficiency	For space heating, annual energy consumption	Rated heat output	Seasonal space heating energy efficiency	For space heating, annual energy consumption
			dB	dB	kW	%	kWh	kW	%	kWh	kW	%	kWh
AOWD SPACE II 40	AIWD URBAN II 100	A++	38	56	4.4	129.5	2742	3.4	102.1	3158	5.0	163.1	1614
AOWD SPACE II 60	AIWD URBAN II 100	A++	38	58	5.7	137.9	3343	4.3	111.1	3680	5.1	165.4	1634
AOWD SPACE II 80	AIWD URBAN II 100	A++	42	59	6.6	131.6	4054	5.8	112.1	4948	7.6	177.2	2242
AOWD SPACE II 100	AIWD URBAN II 100	A++	42	60	7.7	135.7	4567	6.7	116.5	5539	8.6	181.7	2496
AOWD SPACE II 120	AIWD URBAN II 160	A++	43	64	11.6	135.1	6927	10.3	117.8	8419	12.5	174.1	3376
AOWD SPACE II 140	AIWD URBAN II 160	A++	43	65	12.1	135.6	7202	11.0	118.9	8866	13.7	176.5	4088
AOWD SPACE II 160	AIWD URBAN II 160	A++	43	68	13.0	133.3	7895	11.8	121.8	9309	13.8	176.1	4112
AOWD SPACE II 120T	AIWD URBAN II 160	A++	43	64	11.6	135.1	6928	10.3	117.7	8420	12.5	173.8	3780
AOWD SPACE II 140T	AIWD URBAN II 160	A++	43	65	12.1	135.6	7203	11.0	118.9	8867	13.7	176.4	4092
AOWD SPACE II 160T	AIWD URBAN II 160	A++	43	68	13.0	133.2	7896	11.8	121.8	9310	13.8	175.9	4116

Product fiche 1

Heat pump space heater		Outdoor		AOWD SPACE II 40		AOWD SPACE II 60		AOWD SPACE II 80		AOWD SPACE II 100		AOWD SPACE II 120	
		Indoor		AIWD URBAN II 100	AIWD URBAN II 100	AIWD URBAN II 100	AIWD URBAN II 100	AIWD URBAN II 100	AIWD URBAN II 100	AIWD URBAN II 100	AIWD URBAN II 100	AIWD URBAN II 100	AIWD URBAN II 160
Indoor unit sound power (*)		[dB]	38.0	38.0	38.0	42.0	42.0	42.0	42.0	42.0	42.0	43.0	43.0
Outdoor unit sound power (*)	Average climate low temperature application	[dB]	56.0	58.0	58.0	59.0	59.0	59.0	59.0	60.0	60.0	64.0	64.0
Capacity of the back-up heater integrated in the unit	Average climate medium temperature application	[dB]	56.0	58.0	58.0	59.0	59.0	59.0	59.0	60.0	60.0	64.0	64.0
Space heating	Psup back-up heater (optional)	[kW]	0/3	0/3	0/3	0/3/9	0/3/9	0/3/9	0/3/9	0/3/9	0/3/9	0/3/9	0/3/9
Space heating	Energy efficiency class 35°C (Low temp. app.)	-	A+++	A+++	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++	A++	A++
Average climate (Design temperature = -10°C)													
Space heating 35°C	Prated (declared heating capacity) @ -10°C	[kW]	5.5	6.8	8.1	9.2	9.2	9.2	9.2	9.2	9.2	12.0	12.0
Space heating 35°C	Seasonal space heating efficiency (ηs)	[%]	191.0	195.0	205.6	204.8	204.8	204.8	204.8	204.8	204.8	189.4	189.4
Space heating 35°C	Annual energy consumption	[kWh]	2,351	2,845	3,218	3,644	3,644	3,644	3,644	3,644	3,644	5,152	5,152
Space heating 55°C	Prated (declared heating capacity) @ -10°C	[kW]	4.4	5.7	6.6	7.7	7.7	7.7	7.7	7.7	7.7	11.6	11.6
Space heating 55°C	Seasonal space heating efficiency (ηs)	[%]	129.5	137.9	131.6	135.7	135.7	135.7	135.7	135.7	135.7	135.1	135.1
Space heating 55°C	Annual energy consumption	[kWh]	2,742	3,343	4,054	4,567	4,567	4,567	4,567	4,567	4,567	6,927	6,927
Part load conditions space heating average climate low temperature application													
(A) condition (-7°C)	Pdh (declared heating capacity)	[kW]	4.88	6.03	7.18	8.10	8.10	8.10	8.10	8.10	8.10	10.61	10.61
	COPd (declared COP)	-	3.19	3.09	3.35	3.23	3.23	3.23	3.23	3.23	3.23	2.88	2.88
	Cdh(degradation coefficient)	-	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90
(B) condition (2°C)	Pdh (declared heating capacity)	[kW]	3.05	3.88	4.65	5.18	5.18	5.18	5.18	5.18	5.18	6.69	6.69
	COPd (declared COP)	-	4.78	4.85	5.09	5.01	5.01	5.01	5.01	5.01	5.01	4.65	4.65
	Cdh(degradation coefficient)	-	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90
(C) condition (7°C)	Pdh (declared heating capacity)	[kW]	1.93	2.39	2.90	3.32	3.32	3.32	3.32	3.32	3.32	4.44	4.44
	COPd (declared COP)	-	6.13	6.63	6.82	7.08	7.08	7.08	7.08	7.08	7.08	6.62	6.62
	Cdh(degradation coefficient)	-	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90
(D) condition (12°C)	Pdh (declared heating capacity)	[kW]	1.48	1.39	1.63	1.65	1.65	1.65	1.65	1.65	1.65	3.74	3.74
	COPd (declared COP)	-	8.05	7.93	8.35	8.58	8.58	8.58	8.58	8.58	8.58	8.47	8.47
	Cdh(degradation coefficient)	-	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90
(E) Tol (temperature operating limit)	Tol (temperature operating limit)	[°C]	-10.00	-10.00	-10.00	-10.00	-10.00	-10.00	-10.00	-10.00	-10.00	-10.00	-10.00
	Pdh (declared heating capacity)	[kW]	4.41	5.36	6.44	7.40	7.40	7.40	7.40	7.40	7.40	10.74	10.74
	COPd (declared COP)	-	2.86	2.76	3.04	2.96	2.96	2.96	2.96	2.96	2.96	2.77	2.77
WTOL (Heating water Operation Limit)		[°C]	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	

Product fiche 1

Heat pump space heater		Outdoor		AOWD SPACE II 140		AOWD SPACE II 160		AOWD SPACE II 120T		AOWD SPACE II 140T		AOWD SPACE II 160T	
		Indoor	Indoor	AIWD URBAN II 160	AIWD URBAN II 160	AIWD URBAN II 160	AIWD URBAN II 160	AIWD URBAN II 160	AIWD URBAN II 160	AIWD URBAN II 160	AIWD URBAN II 160	AIWD URBAN II 160	AIWD URBAN II 160
Indoor unit sound power (*)		[dB]		43.0		43.0		43.0		43.0		43.0	
Outdoor unit sound power (*)	Average climate low temperature application	[dB]		65.0		68.0		64.0		65.0		68.0	
	Average climate medium temperature application	[dB]		65.0		68.0		64.0		65.0		68.0	
Capacity of the back-up heater integrated in the unit	Psup back-up heater (optional)	[kW]		0/3/9		0/3/9		0/3/9		0/3/9		0/3/9	
Space heating	Energy efficiency class 35°C (Low temp. app.)	-		A+++		A+++		A+++		A+++		A+++	
Space heating	Energy efficiency class 55°C (Medium temp. app.)	-		A++		A++		A++		A++		A++	
Average climate (Design temperature = -10°C)													
Space heating 35°C	Prated (declared heating capacity) @ -10°C	[kW]		13.7		15.2		12.0		13.7		15.2	
	Seasonal space heating efficiency (ηs)	[%]		185.7		181.7		189.3		185.6		181.6	
	Annual energy consumption	[kWh]		6,012		6,804		5,153		6,013		6,805	
Space heating 55°C	Prated (declared heating capacity) @ -10°C	[kW]		12.1		13.0		11.6		12.1		13.0	
	Seasonal space heating efficiency (ηs)	[%]		135.6		133.3		135.1		135.6		133.2	
	Annual energy consumption	[kWh]		7,202		7,895		6,928		7,203		7,896	
Part load conditions space heating average climate low temperature application													
(A) condition (-7°C)	Pdh (declared heating capacity)	[kW]		12.14		13.45		10.61		12.14		13.45	
	COPd (declared COP)	-		2.79		2.72		2.88		2.79		2.72	
	Cdh(degradation coefficient)	-		0.90		0.90		0.90		0.90		0.90	
(B) condition (2°C)	Pdh (declared heating capacity)	[kW]		7.94		8.56		6.69		7.94		8.56	
	COPd (declared COP)	-		4.52		4.41		4.65		4.52		4.41	
	Cdh(degradation coefficient)	-		0.90		0.90		0.90		0.90		0.90	
(C) condition (7°C)	Pdh (declared heating capacity)	[kW]		5.20		5.70		4.44		5.20		5.70	
	COPd (declared COP)	-		6.68		6.56		6.62		6.68		6.56	
	Cdh(degradation coefficient)	-		0.90		0.90		0.90		0.90		0.90	
(D) condition (12°C)	Pdh (declared heating capacity)	[kW]		3.75		3.78		3.74		3.75		3.78	
	COPd (declared COP)	-		8.52		8.51		8.47		8.52		8.51	
	Cdh(degradation coefficient)	-		0.90		0.90		0.90		0.90		0.90	
(E) Tol (temperature operating limit)	Tol (temperature operating limit)	[°C]		-10.00		-10.00		-10.00		-10.00		-10.00	
	Pdh (declared heating capacity)	[kW]		11.47		12.52		10.74		11.47		12.52	
	COPd (declared COP)	-		2.59		2.48		2.77		2.59		2.48	
WTOL (Heating water Operation Limit)	[°C]		60.00		60.00		60.00		60.00		60.00		

Product fiche 2

Heat pump space heater		Outdoor		AOWD SPACE II 40		AOWD SPACE II 60		AOWD SPACE II 80		AOWD SPACE II 100		AOWD SPACE II 120	
		Indoor		AIWD URBAN II 100		AIWD URBAN II 100		AIWD URBAN II 100		AIWD URBAN II 100		AIWD URBAN II 160	
	Tblv	[°C]	-7.00	-7.00	-7.00	-7.00	-7.00	-7.00	-7.00	-7.00	-7.00	-7.00	-7.00
(F) Tivalent temperature	Pdh (declared heating capacity)	[kW]	4.88	6.03	7.18	8.10	10.61						
	COPd (declared COP)	-	3.19	3.09	3.35	3.23	2.88						
Supplementary capacity at P_design	Psup (@Tdesignh: -10°C)	[kW]	1.11	1.45	1.68	1.76	1.26						
Part load conditions space heating average climate medium temperature application													
(A) condition (-7°C)	Pdh (declared heating capacity)	[kW]	3.89	5.04	5.84	6.78	10.24						
	COPd (declared COP)	-	2.17	2.17	2.16	2.24	2.01						
	Cdh(degradation coefficient)	-	0.90	0.90	0.90	0.90	0.90						
(B) condition (2°C)	Pdh (declared heating capacity)	[kW]	2.38	3.12	3.76	4.28	6.52						
	COPd (declared COP)	-	3.30	3.51	3.30	3.42	3.44						
	Cdh(degradation coefficient)	-	0.90	0.90	0.90	0.90	0.90						
(C) condition (7°C)	Pdh (declared heating capacity)	[kW]	2.94	2.08	2.43	2.77	4.36						
	COPd (declared COP)	-	4.41	4.54	4.34	4.52	4.59						
	Cdh(degradation coefficient)	-	0.90	0.90	0.90	0.90	0.90						
(D) condition (12°C)	Pdh (declared heating capacity)	[kW]	1.32	1.28	1.39	1.58	3.29						
	COPd (declared COP)	-	5.66	5.59	5.33	5.68	6.05						
	Cdh(degradation coefficient)	-	0.90	0.90	0.90	0.90	0.90						
(E) Tol (temperature operating limit)	Tol (temperature operating limit)	[°C]	-10.00	-10.00	-10.00	-10.00	-10.00						
	Pdh (declared heating capacity)	[kW]	3.42	4.52	4.91	5.38	9.10						
	COPd (declared COP)	-	1.91	1.91	1.84	1.83	1.79						
	WTOL (Heating water Operation Limit)	[°C]	60.00	60.00	60.00	60.00	60.00						
(F) Tivalent temperature	Tblv	[°C]	-7.00	-7.00	-7.00	-7.00	-7.00						
	Pdh (declared heating capacity)	[kW]	3.89	5.04	5.84	6.78	10.27						
	COPd (declared COP)	-	2.17	2.17	2.16	2.24	2.01						
Supplementary capacity at P_design	Psup (@Tdesignh: -10°C)	[kW]	0.98	1.18	1.69	2.28	2.50						
Colder climate (Design temperature = -22°C)													
Space heating 35°C	Prated (declared heating capacity) @ -22°C	[kW]	4.6	5.6	7.0	7.7	11.4						
	Seasonal space heating efficiency (ηs)	[%]	159.5	165.3	170	169.8	160.2						
	Annual energy consumption	[kWh]	2,769	3,300	3,976	4,423	6,870						

Product fiche 2

Heat pump space heater									
	Outdoor		AOWD SPACE II 140	AOWD SPACE II 160	AOWD SPACE II 120T	AOWD SPACE II 140T	AOWD SPACE II 160T		
	Indoor		AOWD URBAN II 160	AOWD URBAN II 160	AOWD URBAN II 160	AOWD URBAN II 160	AOWD URBAN II 160	AOWD URBAN II 160	AOWD URBAN II 160
	Tblv	[°C]	-7.00	-7.00	-7.00	-7.00	-7.00	-7.00	-7.00
(F) Tivalent temperature	Pdh (declared heating capacity)	[kW]	12.14	13.45	10.61	12.14	13.45	10.61	12.14
	COPd (declared COP)	-	2.79	2.72	2.88	2.79	2.72	2.88	2.72
Supplementary capacity at P_design	Psup (@Tdesignh: -10°C)	[kW]	2.23	2.68	1.26	2.23	2.68	1.26	2.68
Part load conditions space heating average climate medium temperature application									
(A) condition (-7°C)	Pdh (declared heating capacity)	[kW]	10.68	11.52	10.24	10.68	11.52	10.24	10.68
	COPd (declared COP)	-	2.01	1.99	2.01	2.01	1.99	2.01	1.99
	Cdh(degradation coefficient)	-	0.90	0.90	0.90	0.90	0.90	0.90	0.90
(B) condition (2°C)	Pdh (declared heating capacity)	[kW]	6.86	7.18	6.52	6.86	7.18	6.52	6.86
	COPd (declared COP)	-	3.43	3.34	3.44	3.43	3.34	3.43	3.34
	Cdh(degradation coefficient)	-	0.90	0.90	0.90	0.90	0.90	0.90	0.90
(C) condition (7°C)	Pdh (declared heating capacity)	[kW]	4.63	4.67	4.36	4.63	4.67	4.36	4.63
	COPd (declared COP)	-	4.66	4.61	4.59	4.66	4.61	4.59	4.66
	Cdh(degradation coefficient)	-	0.90	0.90	0.90	0.90	0.90	0.90	0.90
(D) condition (12°C)	Pdh (declared heating capacity)	[kW]	3.31	3.32	3.29	3.31	3.32	3.29	3.31
	COPd (declared COP)	-	6.13	6.07	6.05	6.13	6.07	6.05	6.13
	Cdh(degradation coefficient)	-	0.90	0.90	0.90	0.90	0.90	0.90	0.90
(E) Tol (temperature operating limit)	Tol (temperature operating limit)	[°C]	-10.00	-10.00	-10.00	-10.00	-10.00	-10.00	-10.00
	Pdh (declared heating capacity)	[kW]	9.19	10.33	9.10	9.19	10.33	9.10	9.19
	COPd (declared COP)	-	1.76	1.80	1.79	1.76	1.80	1.79	1.76
	WTOL (Heating water Operation Limit)	[°C]	60.00	60.00	60.00	60.00	60.00	60.00	60.00
(F) Tivalent temperature	Tblv	[°C]	-7.00	-7.00	-7.00	-7.00	-7.00	-7.00	-7.00
	Pdh (declared heating capacity)	[kW]	10.68	11.52	10.27	10.68	11.52	10.27	10.68
	COPd (declared COP)	-	2.01	1.99	2.01	2.01	1.99	2.01	1.99
Supplementary capacity at P_design	Psup (@Tdesignh: -10°C)	[kW]	2.91	2.67	2.50	2.91	2.67	2.50	2.91
Colder climate (Design temperature = -22°C)									
Space heating 35°C	Prated (declared heating capacity) @ -22°C	[kW]	12.6	13.7	11.4	12.6	13.7	11.4	12.6
	Seasonal space heating efficiency (ηs)	[%]	159.6	157.8	160.2	159.6	157.8	160.2	159.6
	Annual energy consumption	[kWh]	7,667	8,431	6,871	7,667	8,431	6,871	7,667

Product fiche 3

Heat pump space heater		Outdoor		AOWD SPACE II 40		AOWD SPACE II 60		AOWD SPACE II 80		AOWD SPACE II 100		AOWD SPACE II 120	
		Indoor		AIWD URBAN II 100		AIWD URBAN II 100		AIWD URBAN II 100		AIWD URBAN II 100		AIWD URBAN II 100	
Space heating 55°C	Prated (declared heating capacity) @ -22°C	[kW]	3.4	4.3	5.8	6.7	10.3						
	Seasonal space heating efficiency (ηs)	[%]	102.1	111.1	112.1	116.5	117.8						
	Annual energy consumption	[kWh]	3,158	3,680	4,948	5,539	8,419						
Part load conditions space heating colder climate low temperature application													
(A) condition (-7°C)	Pdh (declared heating capacity)	[kW]	2.75	3.42	4.46	4.83	7.05						
	COPd (declared COP)	-	3.49	3.59	3.66	3.60	3.48						
	Cdh(degradation coefficient)	-	0.90	0.90	0.90	0.90	0.90						
(B) condition (2°C)	Pdh (declared heating capacity)	[kW]	1.77	2.06	2.69	2.94	4.67						
	COPd (declared COP)	-	4.95	5.21	5.20	5.26	4.96						
	Cdh(degradation coefficient)	-	0.90	0.90	0.90	0.90	0.90						
(C) condition (7°C)	Pdh (declared heating capacity)	[kW]	1.17	1.46	1.65	1.92	3.14						
	COPd (declared COP)	-	5.53	6.24	6.53	7.08	6.10						
	Cdh(degradation coefficient)	-	0.90	0.90	0.90	0.90	0.90						
(D) condition (12°C)	Pdh (declared heating capacity)	[kW]	1.43	1.44	1.65	1.65	3.57						
	COPd (declared COP)	-	7.67	7.66	7.96	7.96	7.87						
	Cdh(degradation coefficient)	-	0.90	0.90	0.90	0.90	0.90						
(E) Tol (temperature operating limit)	Tol (temperature operating limit)	[°C]	-22.00	-22.00	-22.00	-22.00	-22.00						
	Pdh (declared heating capacity)	[kW]	2.80	3.48	4.06	4.62	7.01						
	COPd (declared COP)	-	1.97	1.96	1.95	1.97	1.98						
(F) Tivalent temperature	WTOL (Heating water Operation L limit)	[°C]	51.00	51.00	51.00	51.00	51.00						
	Tblv	[°C]	-15.00	-15.00	-15.00	-15.00	-15.00						
	Pdh (declared heating capacity)	[kW]	3.72	4.59	5.69	6.32	9.28						
Supplementary capacity at P_design	COPd (declared COP)	-	2.57	2.53	2.83	2.64	2.59						
	Psup (@Tdesignh: -22°C)	[kW]	1.76	2.15	2.91	3.08	4.40						
Part load conditions space heating colder climate medium temperature application													
(A) condition (-7°C)	Pdh (declared heating capacity)	[kW]	2.13	2.69	3.86	4.27	6.63						
	COPd (declared COP)	-	2.32	2.46	2.48	2.54	2.63						
	Cdh(degradation coefficient)	-	0.90	0.90	0.90	0.90	0.90						

Product fiche 3

Heat pump space heater		Outdoor		AOWD SPACE II 140		AOWD SPACE II 160		AOWD SPACE II 120T		AOWD SPACE II 140T		AOWD SPACE II 160T	
		Indoor		AOWD URBAN II 160	AOWD URBAN II 160	AOWD URBAN II 160	AOWD URBAN II 160	AOWD URBAN II 160	AOWD URBAN II 160	AOWD URBAN II 160	AOWD URBAN II 160	AOWD URBAN II 160	AOWD URBAN II 160
Space heating 55°C	Prated (declared heating capacity) @ -22°C	[kW]	11.0	11.0	11.8	11.8	10.3	11.0	11.0	11.0	11.0	11.8	
	Seasonal space heating efficiency (ηs)	[%]	118.9	118.9	121.8	117.7	118.9	118.9	118.9	118.9	118.9	121.8	
	Annual energy consumption	[kWh]	8,866	8,866	9,309	8,420	8,867	8,420	8,867	8,420	8,867	9,310	
Part load conditions space heating colder climate low temperature application													
(A) condition (-7°C)	Pdh (declared heating capacity)	[kW]	7.96	7.96	8.31	7.05	7.96	7.96	7.96	7.96	8.31		
	COPd (declared COP)	-	3.44	3.44	3.37	3.48	3.44	3.44	3.44	3.44	3.37		
	Cdh(degradation coefficient)	-	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90		
(B) condition (2°C)	Pdh (declared heating capacity)	[kW]	5.05	5.05	5.26	4.67	5.05	5.05	5.05	5.05	5.26		
	COPd (declared COP)	-	4.92	4.92	4.86	4.96	4.92	4.92	4.92	4.92	4.86		
	Cdh(degradation coefficient)	-	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90		
(C) condition (7°C)	Pdh (declared heating capacity)	[kW]	3.15	3.15	3.62	3.14	3.15	3.15	3.15	3.15	3.62		
	COPd (declared COP)	-	6.11	6.11	6.49	6.10	6.11	6.11	6.11	6.11	6.49		
	Cdh(degradation coefficient)	-	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90		
(D) condition (12°C)	Pdh (declared heating capacity)	[kW]	3.57	3.57	3.34	3.57	3.57	3.57	3.57	3.57	3.34		
	COPd (declared COP)	-	7.82	7.82	7.40	7.87	7.82	7.82	7.82	7.82	7.40		
	Cdh(degradation coefficient)	-	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90		
(E) Tol (temperature operating limit)	Tol (temperature operating limit)	[°C]	-22.00	-22.00	-22.00	-22.00	-22.00	-22.00	-22.00	-22.00	-22.00		
	Pdh (declared heating capacity)	[kW]	7.57	7.57	8.88	7.01	7.57	7.01	7.57	7.57	8.88		
	COPd (declared COP)	-	1.92	1.92	1.97	1.98	1.92	1.92	1.92	1.92	1.97		
(F) Tivalent temperature	WTOL (Heating water Operation Limit)	[°C]	51.00	51.00	51.00	51.00	51.00	51.00	51.00	51.00	51.00		
	Tblv	[°C]	-15.00	-15.00	-15.00	-15.00	-15.00	-15.00	-15.00	-15.00	-15.00		
	Pdh (declared heating capacity)	[kW]	10.31	10.31	11.22	9.28	10.31	9.28	10.31	10.31	11.22		
Supplementary capacity at P_design	COPd (declared COP)	-	2.53	2.53	2.43	2.59	2.53	2.53	2.53	2.53	2.43		
	Psup (@Tdesignh: -22°C)	[kW]	5.03	5.03	4.82	4.40	5.03	4.40	5.03	4.40	4.82		
Part load conditions space heating colder climate medium temperature application													
(A) condition (-7°C)	Pdh (declared heating capacity)	[kW]	6.89	6.89	7.64	6.63	6.89	6.89	6.89	6.89	7.64		
	COPd (declared COP)	-	2.66	2.66	2.65	2.63	2.66	2.66	2.66	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		

Product fiche 4

Heat pump space heater		Outdoor		AOWD SPACE II 40		AOWD SPACE II 60		AOWD SPACE II 80		AOWD SPACE II 100		AOWD SPACE II 120		
		Indoor		AIWD URBAN II 100	AIWD URBAN II 100	AIWD URBAN II 100	AIWD URBAN II 100	AIWD URBAN II 100	AIWD URBAN II 100	AIWD URBAN II 100	AIWD URBAN II 100	AIWD URBAN II 160	AIWD URBAN II 160	
(B) condition (2°C)	Pdh (declared heating capacity)	[kW]		1.28	1.60	2.21	2.57	4.06						
	COPd (declared COP)	-		2.99	3.36	3.35	3.51	3.60						
	Cdh(degradation coefficient)	-		0.90	0.90	0.90	0.90	0.90						
	Pdh (declared heating capacity)	[kW]		1.01	1.02	1.44	1.65	2.78						
(C) condition (7°C)	COPd (declared COP)	-		3.86	3.94	4.11	4.37	4.54						
	Cdh(degradation coefficient)	-		0.90	0.90	0.90	0.90	0.90						
	Pdh (declared heating capacity)	[kW]		1.36	1.37	1.47	1.48	3.33						
	COPd (declared COP)	-		6.28	6.35	5.92	5.96	6.25						
(D) condition (12°C)	Cdh(degradation coefficient)	-		0.90	0.90	0.90	0.90	0.90						
	Tol (temperature operating limit)	[°C]		-22.00	-22.00	-22.00	-22.00	-22.00						
	Pdh (declared heating capacity)	[kW]		1.64	2.09	2.80	2.80	4.19						
	COPd (declared COP)	-		1.02	1.13	1.22	1.22	1.13						
(E) Tol (temperature operating limit)	WTOL (Heating water Operation Limit)	[°C]		51.00	51.00	51.00	51.00	51.00						
	Tblv	[°C]		-15.00	-15.00	-15.00	-15.00	-15.00						
	Pdh (declared heating capacity)	[kW]		2.74	3.47	4.71	5.47	8.41						
	COPd (declared COP)	-		1.74	1.86	1.90	2.00	1.84						
Supplementary capacity at P _{design}		[kW]		1.72	2.17	2.97	3.91	6.12						
Warmer climate (Design temperature = 2°C)														
Space heating 35°C	Prated (declared heating capacity) @ 2 °C	[kW]		5.5	6.1	8.1	8.6	11.1						
	Seasonal space heating efficiency (ηs)	[%]		255.4	259.8	276.6	280.5	256.1						
	Annual energy consumption	[kWh]		1,146	1,244	1,551	1,617	2,292						
	Prated (declared heating capacity) @ 2 °C	[kW]		5.0	5.1	7.6	8.6	12.5						
Space heating 55°C	Seasonal space heating efficiency (ηs)	[%]		163.1	165.4	177.2	181.7	174.1						
	Annual energy consumption	[kWh]		1,614	1,634	2,242	2,496	3,376						
	Part load conditions space heating warmer climate low temperature application													
	(B) condition (2°C)	Pdh (declared heating capacity)	[kW]		5.34	5.93	7.56	8.44	11.26					
COPd (declared COP)		-		3.94	3.91	3.98	3.84	3.59						
Cdh(degradation coefficient)		-		0.90	0.90	0.90	0.90	0.90						
Pdh (declared heating capacity)		[kW]		3.56	3.93	5.22	5.52	7.14						
(C) condition (7°C)	COPd (declared COP)	-		5.92	5.89	6.26	6.18	5.87						
	Cdh(degradation coefficient)	-		0.90	0.90	0.90	0.90	0.90						

Product fiche 4

Heat pump space heater		Outdoor		AOWD SPACE II 140		AOWD SPACE II 160		AOWD SPACE II 120T		AOWD SPACE II 140T		AOWD SPACE II 160T	
		Indoor	[kW]	AIWD URBAN II 160	AIWD URBAN II 160	AIWD URBAN II 160	AIWD URBAN II 160	AIWD URBAN II 160	AIWD URBAN II 160	AIWD URBAN II 160	AIWD URBAN II 160	AIWD URBAN II 160	
(B) condition (2°C)	Pdh (declared heating capacity)		4.32	4.42	4.42	4.06	4.32	4.42	4.06	4.32	4.42	4.42	
	COPd (declared COP)	-	3.66	3.79	3.79	3.60	3.66	3.79	3.60	3.66	3.79	3.79	
	Cdh(degradation coefficient)	-	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	
(C) condition (7°C)	Pdh (declared heating capacity)	[kW]	3.06	2.97	2.97	2.78	3.06	2.97	2.78	3.06	2.97	2.97	
	COPd (declared COP)	-	4.72	4.81	4.81	4.54	4.72	4.81	4.54	4.72	4.81	4.81	
	Cdh(degradation coefficient)	-	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	
(D) condition (12°C)	Pdh (declared heating capacity)	[kW]	3.33	3.43	3.43	3.33	3.33	3.43	3.33	3.33	3.43	3.43	
	COPd (declared COP)	-	6.25	6.29	6.29	6.25	6.25	6.29	6.25	6.25	6.29	6.29	
	Cdh(degradation coefficient)	-	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	
(E) Tol (temperature operating limit)	Tol (temperature operating limit)	[°C]	-22.00	-22.00	-22.00	-22.00	-22.00	-22.00	-22.00	-22.00	-22.00	-22.00	
	Pdh (declared heating capacity)	[kW]	4.20	5.21	5.21	4.19	4.20	5.21	4.19	4.20	5.21	5.21	
	COPd (declared COP)	-	1.13	1.23	1.23	1.13	1.13	1.23	1.13	1.13	1.23	1.23	
(F) Tivalent temperature	WTOL (Heating water Operation Limit)	[°C]	51.00	51.00	51.00	51.00	51.00	51.00	51.00	51.00	51.00	51.00	
	Tblv	[°C]	-15.00	-15.00	-15.00	-15.00	-15.00	-15.00	-15.00	-15.00	-15.00	-15.00	
	Pdh (declared heating capacity)	[kW]	8.94	9.61	9.61	8.41	8.94	9.61	8.41	8.94	9.61	9.61	
Supplementary capacity at P _{design}	COPd (declared COP)	-	1.79	1.86	1.86	1.84	1.79	1.86	1.84	1.79	1.86	1.86	
	Psup (@Tdesignh: -22°C)	[kW]	6.76	6.59	6.59	6.12	6.76	6.59	6.12	6.76	6.59	6.59	
Warmer climate (Design temperature = 2°C)													
Space heating 35°C	Prated (declared heating capacity) @ 2 °C	[kW]	12.1	13.1	13.1	11.1	12.1	13.1	11.1	12.1	13.1	13.1	
	Seasonal space heating efficiency (ηs)	[%]	260.3	248.5	248.5	255.6	260.3	248.5	255.6	259.8	248.1	248.1	
	Annual energy consumption	[kWh]	2,457	2,781	2,781	2,296	2,457	2,781	2,296	2,296	2,462	2,786	
Space heating 55°C	Prated (declared heating capacity) @ 2 °C	[kW]	13.7	13.8	13.8	12.5	13.7	13.8	12.5	13.7	13.8	13.8	
	Seasonal space heating efficiency (ηs)	[%]	176.5	176.1	176.1	173.8	176.5	176.1	173.8	176.4	175.9	175.9	
	Annual energy consumption	[kWh]	4,088	4,112	4,112	3,780	4,088	4,112	3,780	4,092	4,116	4,116	
Part load conditions space heating warmer climate low temperature application													
(B) condition (2°C)	Pdh (declared heating capacity)	[kW]	12.04	13.10	13.10	11.26	12.04	13.10	11.26	12.04	13.10	13.10	
	COPd (declared COP)	-	3.44	3.35	3.35	3.59	3.44	3.35	3.59	3.44	3.35	3.35	
	Cdh(degradation coefficient)	-	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	
(C) condition (7°C)	Pdh (declared heating capacity)	[kW]	7.78	8.41	8.41	7.14	7.78	8.41	7.14	7.78	8.41	8.41	
	COPd (declared COP)	-	5.84	5.36	5.36	5.87	5.84	5.36	5.87	5.84	5.36	5.36	
	Cdh(degradation coefficient)	-	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	

Product fiche 5

Heat pump space heater		Outdoor		AOWD SPACE II 40		AOWD SPACE II 60		AOWD SPACE II 80		AOWD SPACE II 100		AOWD SPACE II 120	
		Indoor	[kW]	AIWD URBAN II 100	AIWD URBAN II 100	AIWD URBAN II 100	AIWD URBAN II 100	AIWD URBAN II 100	AIWD URBAN II 100	AIWD URBAN II 100	AIWD URBAN II 100	AIWD URBAN II 160	AIWD URBAN II 160
(D) condition (12°C)	Pdh (declared heating capacity)		[kW]	1.63	1.79	2.62	2.62	2.62	2.62	2.62	2.62	3.55	3.55
	COPd (declared COP)		-	7.91	8.20	9.23	9.23	9.23	9.23	9.23	9.23	7.94	7.94
	Cdh(degradation coefficient)		-	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90
	ToI (temperature operating limit)		[°C]	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
(E) ToI (temperature operating limit)	Pdh (declared heating capacity)		[kW]	5.34	5.93	7.56	7.56	7.56	7.56	7.56	7.56	11.26	11.26
	COPd (declared COP)		-	3.94	3.91	3.98	3.98	3.98	3.98	3.98	3.84	3.59	3.59
	WTOL (Heating water Operation Limit)		[°C]	62.00	62.00	62.00	62.00	62.00	62.00	62.00	62.00	62.00	62.00
	Tblv		[°C]	7.00	7.00	7.00	7.00	7.00	7.00	7.00	7.00	7.00	7.00
(F) Tbivalent temperature	Pdh (declared heating capacity)		[kW]	3.56	3.93	5.22	5.22	5.22	5.22	5.22	5.52	7.14	7.14
	COPd (declared COP)		-	5.92	5.89	6.26	6.26	6.26	6.26	6.26	6.18	5.87	5.87
	Psup (@Tdesignh: 2°C)		[kW]	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.14	0.00	0.00
Part load conditions space heating warmer climate medium temperature application													
(B) condition (2°C)	Pdh (declared heating capacity)		[kW]	4.83	5.02	7.55	7.55	7.55	7.55	7.55	7.55	12.07	12.07
	COPd (declared COP)		-	2.51	2.48	2.59	2.59	2.59	2.59	2.59	2.59	2.31	2.31
	Cdh(degradation coefficient)		-	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90
	Pdh (declared heating capacity)		[kW]	3.22	3.31	4.86	4.86	4.86	4.86	4.86	5.54	8.04	8.04
(C) condition (7°C)	COPd (declared COP)		-	3.68	3.67	3.92	3.92	3.92	3.92	3.92	4.10	3.86	3.86
	Cdh(degradation coefficient)		-	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90
	Pdh (declared heating capacity)		[kW]	1.47	1.59	2.32	2.32	2.32	2.32	2.53	2.53	3.75	3.75
	COPd (declared COP)		-	5.15	5.29	5.55	5.55	5.55	5.55	5.82	5.82	5.70	5.70
(D) condition (12°C)	Cdh(degradation coefficient)		-	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90
	Pdh (declared heating capacity)		[kW]	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
	COPd (declared COP)		-	4.83	5.02	7.56	7.56	7.56	7.56	7.56	7.56	12.07	12.07
	Cdh(degradation coefficient)		-	2.51	2.48	2.59	2.59	2.59	2.59	2.59	2.59	2.31	2.31
(E) ToI (temperature operating limit)	ToI (temperature operating limit)		[°C]	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
	Pdh (declared heating capacity)		[kW]	4.83	5.02	7.56	7.56	7.56	7.56	7.56	7.56	12.07	12.07
	COPd (declared COP)		-	2.51	2.48	2.59	2.59	2.59	2.59	2.59	2.59	2.31	2.31
	WTOL (Heating water Operation Limit)		[°C]	62.00	62.00	62.00	62.00	62.00	62.00	62.00	62.00	62.00	62.00
(F) Tbivalent temperature	Tblv		[°C]	7.00	7.00	7.00	7.00	7.00	7.00	7.00	7.00	7.00	7.00
	Pdh (declared heating capacity)		[kW]	3.22	3.31	4.86	4.86	4.86	4.86	4.86	5.54	8.04	8.04
	COPd (declared COP)		-	3.68	3.67	3.92	3.92	3.92	3.92	3.92	4.10	3.86	3.86
	Psup (@Tdesignh: 2°C)		[kW]	0.18	0.12	0.00	0.00	0.00	0.00	0.00	0.48	0.43	0.43

Product fiche 5

Heat pump space heater		Outdoor		AOWD SPACE II 140		AOWD SPACE II 160		AOWD SPACE II 120T		AOWD SPACE II 140T		AOWD SPACE II 160T	
		Indoor	[kW]	AIWD URBAN II 160	AIWD URBAN II 160	AIWD URBAN II 160	AIWD URBAN II 160	AIWD URBAN II 160	AIWD URBAN II 160	AIWD URBAN II 160	AIWD URBAN II 160		
(D) condition (12°C)	Pdh (declared heating capacity)		[kW]	3.75	3.87	3.55	3.75	3.87	3.55	3.75	3.87	3.75	3.87
	COPd (declared COP)		-	8.25	8.11	7.94	8.25	8.11	7.94	8.25	8.11	8.25	8.11
	Cdh(degradation coefficient)		-	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90
	ToI (temperature operating limit)		[°C]	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
(E) ToI (temperature operating limit)	Pdh (declared heating capacity)		[kW]	12.04	13.10	11.26	12.04	13.10	11.26	12.04	13.10	12.04	13.10
	COPd (declared COP)		-	3.44	3.35	3.59	3.44	3.35	3.59	3.44	3.35	3.44	3.35
	WTOL (Heating water Operation Limit)		[°C]	62.00	62.00	62.00	62.00	62.00	62.00	62.00	62.00	62.00	62.00
	Tblv		[°C]	7.00	7.00	7.00	7.00	7.00	7.00	7.00	7.00	7.00	7.00
(F) Tblv temperature	Pdh (declared heating capacity)		[kW]	7.78	8.41	7.14	7.78	8.41	7.14	7.78	8.41	7.78	8.41
	COPd (declared COP)		-	5.84	5.36	5.87	5.84	5.36	5.87	5.84	5.36	5.84	5.36
	Psup (@Tdesignh: 2°C)		[kW]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Supplementary capacity at P_design		[kW]										
Part load conditions space heating warmer climate medium temperature application													
(B) condition (2°C)	Pdh (declared heating capacity)		[kW]	13.04	13.38	12.07	13.04	13.38	12.07	13.04	13.38	13.04	13.38
	COPd (declared COP)		-	2.20	2.29	2.31	2.20	2.29	2.31	2.20	2.29	2.20	2.29
	Cdh(degradation coefficient)		-	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90
	Pdh (declared heating capacity)		[kW]	8.83	8.86	8.04	8.83	8.86	8.04	8.83	8.86	8.83	8.86
(C) condition (7°C)	COPd (declared COP)		-	3.91	3.84	3.86	3.91	3.84	3.86	3.91	3.84	3.91	3.84
	Cdh(degradation coefficient)		-	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90
	Pdh (declared heating capacity)		[kW]	4.08	4.06	3.75	4.08	4.06	3.75	4.08	4.06	4.08	4.06
	COPd (declared COP)		-	5.90	5.86	5.70	5.90	5.86	5.70	5.90	5.86	5.90	5.86
(D) condition (12°C)	Cdh(degradation coefficient)		-	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90
	ToI (temperature operating limit)		[°C]	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
	Pdh (declared heating capacity)		[kW]	13.04	13.38	12.07	13.04	13.38	12.07	13.04	13.38	13.04	13.38
	COPd (declared COP)		-	2.20	2.29	2.31	2.20	2.29	2.31	2.20	2.29	2.20	2.29
(E) ToI (temperature operating limit)	WTOL (Heating water Operation Limit)		[°C]	62.00	62.00	62.00	62.00	62.00	62.00	62.00	62.00	62.00	62.00
	Tblv		[°C]	7.00	7.00	7.00	7.00	7.00	7.00	7.00	7.00	7.00	7.00
	Pdh (declared heating capacity)		[kW]	8.83	8.86	8.04	8.83	8.86	8.04	8.83	8.86	8.83	8.86
	COPd (declared COP)		-	3.91	3.84	3.86	3.91	3.84	3.86	3.91	3.84	3.91	3.84
(F) Tblv temperature	Psup (@Tdesignh: 2°C)		[kW]	0.66	0.42	0.43	0.66	0.42	0.43	0.66	0.42	0.66	0.42
	Supplementary capacity at P_design		[kW]										

Product fiche 6

Heat pump space heater		Outdoor		AOWD SPACE II 40		AOWD SPACE II 60		AOWD SPACE II 80		AOWD SPACE II 100		AOWD SPACE II 120		
		Indoor		AIWD URBAN II 100		AIWD URBAN II 100		AIWD URBAN II 100		AIWD URBAN II 100		AIWD URBAN II 160		
Product description	Air-to-water heat pump	Y/N	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	
	Water-to-water heat pump	Y/N	No	No	No	No	No	No	No	No	No	No	No	
	Brine-to-water heat pump	NBVCXZ	No	No	No	No	No	No	No	No	No	No	No	
	Low-temperature heat pump	Y/N	No	No	No	No	No	No	No	No	No	No	No	
	Equipped with a supplementary heater	Y/N	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	
	Heat pump combination heater	Y/N	No	No	No	No	No	No	No	No	No	No	No	
	Air to water unit		[m ³ /h]	2770	2770	2770	2770	2770	2770	2770	2770	2770	2770	2770
	Brine/water to water unit			/	/	/	/	/	/	/	/	/	/	/
	Other	Capacity control	-	Inverter	Inverter	Inverter	Inverter	Inverter	Inverter	Inverter	Inverter	Inverter	Inverter	Inverter
		P _{off} (Power consumption Off mode)	[kW]	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014
P _{to} (Power consumption Thermostat off mode)		[kW]	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	
P _{sb} (Power consumption Standby mode)		[kW]	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	
P _{CK} (Power crankcase heater model)		[kW]	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
Q _{elec} (Daily electricity consumption)		[kWh]	/	/	/	/	/	/	/	/	/	/	/	
Q _{fuel} (Daily fuel consumption)		[kWh]	/	/	/	/	/	/	/	/	/	/	/	

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

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

Product fiche 6

Heat pump space heater		Outdoor		AOWD SPACE II 140		AOWD SPACE II 160		AOWD SPACE II 120T		AOWD SPACE II 140T		AOWD SPACE II 160T	
		Indoor		AIWD URBAN II 160		AIWD URBAN II 160		AIWD URBAN II 160		AIWD URBAN II 160		AIWD URBAN II 160	
Product description	Air-to-water heat pump	Y/N	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	Water-to-water heat pump	Y/N	No	No	No	No	No	No	No	No	No	No	No
	Brine-to-water heat pump	NBVCXZ	No	No	No	No	No	No	No	No	No	No	No
	Low-temperature heat pump	Y/N	No	No	No	No	No	No	No	No	No	No	No
	Equipped with a supplementary heater	Y/N	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	Heat pump combination heater	Y/N	No	No	No	No	No	No	No	No	No	No	No
Air to water unit	Rated airflow (outdoor)	[m ³ /h]	4060	4060	4650	4650	4060	4060	4060	4060	4650	4650	4650
Other	Brine/water to water unit	Rated water/brine flow (outdoor H/E)	/	/	/	/	/	/	/	/	/	/	/
	Capacity control	-	Inverter	Inverter	Inverter	Inverter	Inverter	Inverter	Inverter	Inverter	Inverter	Inverter	Inverter
	P _{off} (Power consumption Off mode)	[kW]	0.014	0.014	0.014	0.014	0.014	0.02	0.02	0.02	0.02	0.02	0.02
	P _{to} (Power consumption Thermostat off mode)	[kW]	0.024	0.024	0.024	0.024	0.024	0.030	0.030	0.030	0.030	0.030	0.030
	P _{sb} (Power consumption Standby mode)	[kW]	0.014	0.014	0.014	0.014	0.014	0.02	0.02	0.02	0.02	0.02	0.02
	P _{CK} (Power crankcase heater model)	[kW]	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	Q _{elec} (Daily electricity consumption)	[kWh]	/	/	/	/	/	/	/	/	/	/	/
	Q _{fuel} (Daily fuel consumption)	[kWh]	/	/	/	/	/	/	/	/	/	/	/

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

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

Technical parameters							
Model(s):	Outdoor unit: AOWD SPACE II 40 Indoor unit: AIWD URBAN II 100						
Air-to-water heat pump:	YES						
Water-to-water heat pump:	NO						
Brine-to-water heat pump:	NO						
Low-temperature heat pump:	NO						
Equipped with a supplementary heater:	NO						
Heat pump combination heater:	NO						
Declared climate condition:	AVERAGE						
Parameters are declared for medium-temperature application.							
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	4.4	kW	Seasonal space heating energy efficiency	η_s	129.5	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = -7°C	Pdh	3.89	kW	Tj = -7°C	COPd	2.17	-
Tj = 2°C	Pdh	2.38	kW	Tj = 2°C	COPd	3.30	-
Tj = 7°C	Pdh	2.94	kW	Tj = 7°C	COPd	4.41	-
Tj = 12°C	Pdh	1.32	kW	Tj = 12°C	COPd	5.66	-
Tj = bivalent temperature	Pdh	3.89	kW	Tj = bivalent temperature	COPd	2.17	-
Tj = operating limit	Pdh	3.42	kW	Tj = operating limit	COPd	1.91	-
For air-to-water heat pumps: Tj = -15°C	Pdh	-	kW	For air-to-water heat pumps: Tj = -15°C	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}	-	-
Degradation co-efficient (**)	Cdh	0.9	--	Heating water operating limit temperature	WTOL	60	°C
Power consumption in modes other than active mode				Supplementary heater			
Off mode	P _{off}	0.014	kW	Rated heat output (**)	P _{sup}	0.98	kW
Standby mode	P _{sb}	0.014	kW	Type of energy input	Electrical		
Thermostat-off mode	P _{to}	0.024	kW				
Crankcase heater mode	P _{ck}	0.000	kW				
Other items							
Capacity control	variable			For air-to-water heat pumps: Rated air flow rate, outdoors	-	2770	m ³ /h
Sound power level, indoors/outdoors	L _{WA}	38/56	dB	For water-or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	-	-	m ³ /h
Annual energy consumption	Q _{HE}	2744	kWh				
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	Eurofred, S.A. CL. Marques de Sentmenat, 97 08029 Barcelona						
(*) 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.							

Technical parameters

Model(s):	Outdoor unit: AOWD SPACE II 40 Indoor unit: AIWD URBAN II 100						
Air-to-water heat pump:	YES						
Water-to-water heat pump:	NO						
Brine-to-water heat pump:	NO						
Low-temperature heat pump:	NO						
Equipped with a supplementary heater:	NO						
Heat pump combination heater:	NO						
Declared climate condition:	COLDER						
Parameters are declared for medium-temperature application.							
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	3.4	kW	Seasonal space heating energy efficiency	η_s	102.1	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = -7°C	Pdh	2.13	kW	Tj = -7°C	COPd	2.32	-
Tj = 2°C	Pdh	1.28	kW	Tj = 2°C	COPd	2.99	-
Tj = 7°C	Pdh	1.01	kW	Tj = 7°C	COPd	3.86	-
Tj = 12°C	Pdh	1.36	kW	Tj = 12°C	COPd	6.28	-
Tj = bivalent temperature	Pdh	2.74	kW	Tj = bivalent temperature	COPd	1.74	-
Tj = operating limit	Pdh	1.64	kW	Tj = operating limit	COPd	1.02	-
For air-to-water heat pumps: Tj = -15°C	Pdh	-	kW	For air-to-water heat pumps: Tj = -15°C	COPd	-	-
Bivalent temperature	Tbiv	-15	°C	For air-to-water heat pumps: Operation limit temperature	TOL	-22	°C
Cycling interval capacity for heating	Pcych	-	kW	Cycling interval efficiency	COP _{cyc}	-	-
Degradation co-efficient (**)	Cdh	0.9	--	Heating water operating limit temperature	WTOL	51	°C
Power consumption in modes other than active mode				Supplementary heater			
Off mode	P _{off}	0.014	kW	Rated heat output (**)	P _{sup}	1.72	kW
Standby mode	P _{sb}	0.014	kW	Type of energy input	Electrical		
Thermostat-off mode	P _{to}	0.024	kW				
Crankcase heater mode	P _{ck}	0.000	kW				
Other items							
Capacity control	variable			For air-to-water heat pumps: Rated air flow rate, outdoors	-	2770	m ³ /h
Sound power level, indoors/outdoors	L _{WA}	-	dB	For water-or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	-	-	m ³ /h
Annual energy consumption	Q _{HE}	3159	kWh				
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	Eurofred, S.A. CL. Marques de Sentmenat, 97 08029 Barcelona						
(*) 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.							

Technical parameters

Model(s):	Outdoor unit: AOWD SPACE II 40 Indoor unit: AIWD URBAN II 100
Air-to-water heat pump:	YES
Water-to-water heat pump:	NO
Brine-to-water heat pump:	NO
Low-temperature heat pump:	NO
Equipped with a supplementary heater:	NO
Heat pump combination heater:	NO
Declared climate condition:	WARMER
Parameters are declared for medium-temperature application.	

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	5.0	kW	Seasonal space heating energy efficiency	η_s	162.4	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = -7°C	Pdh	-	kW	Tj = -7°C	COPd	-	-
Tj = 2°C	Pdh	4.83	kW	Tj = 2°C	COPd	2.51	-
Tj = 7°C	Pdh	3.22	kW	Tj = 7°C	COPd	3.68	-
Tj = 12°C	Pdh	1.47	kW	Tj = 12°C	COPd	5.15	-
Tj = bivalent temperature	Pdh	3.22	kW	Tj = bivalent temperature	COPd	3.68	-
Tj = operating limit	Pdh	4.83	kW	Tj = operating limit	COPd	2.51	-
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	2	°C
Cycling interval capacity for heating	Pcyc	-	kW	Cycling interval efficiency	COP _{cyc}	-	-
Degradation co-efficient (**)	Cdh	0.9	--	Heating water operating limit temperature	WTOL	62	°C
Power consumption in modes other than active mode				Supplementary heater			
Off mode	Poff	0.014	kW	Rated heat output (**)	Psup	0.18	kW
Standby mode	Psb	0.014	kW	Type of energy input	Electrical		
Thermostat-off mode	Pto	0.024	kW				
Crankcase heater mode	Pck	0.000	kW				

Other items							
Capacity control	variable			For air-to-water heat pumps: Rated air flow rate, outdoors	-	2770	m ³ /h
Sound power level, indoors/outdoors	L _{WA}	-	dB	For water-or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	-	-	m ³ /h
Annual energy consumption	Q _{HE}	1621	kWh				

For heat pump combination heater:							
Declared load profile	-			Water heating energy efficiency	η_{wh}	-	%
Daily electricity consumption	Q _{elec}	-	kWh	Daily fu5.1el consumption	Q _{fuel}	-	kWh
Annual electricity consumption	AEC	-	kWh	Annual fuel consumption	AFC	-	GJ

Contact details	Eurofred, S.A. CL. Marques de Sentmenat, 97 08029 Barcelona						
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(*) 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.

Technical parameters

Model(s):	Outdoor unit: AOWD SPACE II 60 Indoor unit: AIWD URBAN II 100						
Air-to-water heat pump:	YES						
Water-to-water heat pump:	NO						
Brine-to-water heat pump:	NO						
Low-temperature heat pump:	NO						
Equipped with a supplementary heater:	NO						
Heat pump combination heater:	NO						
Declared climate condition:	AVERAGE						
Parameters are declared for medium-temperature application.							
Technical parameters table							
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	5.7	kW	Seasonal space heating energy efficiency	η_s	137.9	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = -7 °C	Pdh	5.04	kW	Tj = -7 °C	COPd	2.17	-
Tj = 2 °C	Pdh	3.12	kW	Tj = 2 °C	COPd	3.51	-
Tj = 7 °C	Pdh	2.08	kW	Tj = 7 °C	COPd	4.54	-
Tj = 12 °C	Pdh	1.28	kW	Tj = 12 °C	COPd	5.59	-
Tj = bivalent temperature	Pdh	5.04	kW	Tj = bivalent temperature	COPd	2.17	-
Tj = operating limit	Pdh	4.52	kW	Tj = operating limit	COPd	1.91	-
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	P _{cyh}	-	kW	Cycling interval efficiency	COP _{cyh}	-	-
Degradation co-efficient (**)	Cdh	0.9	--	Heating water operating limit temperature	WTOL	60	°C
Power consumption in modes other than active mode				Supplementary heater			
Off mode	P _{off}	0.014	kW	Rated heat output (**)	P _{sup}	1.18	kW
Standby mode	P _{sb}	0.014	kW				
Thermostat-off mode	P _{to}	0.024	kW	Type of energy input	Electrical		
Crankcase heater mode	P _{ck}	0.000	kW				
Other items							
Capacity control	variable			For air-to-water heat pumps: Rated air flow rate, outdoors	-	2770	m ³ /h
Sound power level, indoors/outdoors	L _{WA}	38/58	dB	For water-or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	-	-	m ³ /h
Annual energy consumption	Q _{HE}	3345	kWh				
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	Eurofred, S.A. CL. Marques de Sentmenat, 97 08029 Barcelona						
(*) 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.							

Technical parameters

Model(s):	Outdoor unit: AOWD SPACE II 60 Indoor unit: AIWD URBAN II 100
Air-to-water heat pump:	YES
Water-to-water heat pump:	NO
Brine-to-water heat pump:	NO
Low-temperature heat pump:	NO
Equipped with a supplementary heater:	NO
Heat pump combination heater:	NO
Declared climate condition:	COLDER

Parameters are declared for medium-temperature application.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	4.3	kW	Seasonal space heating energy efficiency	η_s	111.1	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = -7 °C	Pdh	2.70	kW	Tj = -7 °C	COPd	2.46	-
Tj = 2 °C	Pdh	1.60	kW	Tj = 2 °C	COPd	3.36	-
Tj = 7 °C	Pdh	1.02	kW	Tj = 7 °C	COPd	3.94	-
Tj = 12 °C	Pdh	1.37	kW	Tj = 12 °C	COPd	6.35	-
Tj = bivalent temperature	Pdh	3.47	kW	Tj = bivalent temperature	COPd	1.86	-
Tj = operating limit	Pdh	2.09	kW	Tj = operating limit	COPd	1.13	-
For air-to-water heat pumps: Tj = -15 °C	Pdh	-	kW	For air-to-water heat pumps: Tj = -15 °C	COPd	-	-
Bivalent temperature	Tbiv	-15	°C	For air-to-water heat pumps: Operation limit temperature	TOL	-22	°C
Cycling interval capacity for heating	P _{cyc}	-	kW	Cycling interval efficiency	COP _{cyc}	-	-
Degradation co-efficient (**)	Cdh	0.9	--	Heating water operating limit temperature	WTOL	51	°C
Power consumption in modes other than active mode				Supplementary heater			
Off mode	P _{off}	0.014	kW	Rated heat output (**)	P _{sup}	5.10	kW
Standby mode	P _{sb}	0.014	kW	Type of energy input	Electrical		
Thermostat-off mode	P _{to}	0.024	kW				
Crankcase heater mode	P _{ck}	0.000	kW				

Other items			
Capacity control	variable		
Sound power level, indoors/outdoors	LWA	-	dB
Annual energy consumption	Q _{HE}	3681	kWh
For air-to-water heat pumps: Rated air flow rate, outdoors	-	2770	m ³ /h
For water-or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	-	-	m ³ /h

For heat pump combination heater:			
Declared load profile	-		
Daily electricity consumption	Q _{elec}	-	kWh
Annual electricity consumption	AEC	-	kWh
Water heating energy efficiency	η_{wh}	-	%
Daily fuel consumption	Q _{fuel}	-	kWh
Annual fuel consumption	AFC	-	GJ

Contact details	Eurofred, S.A. CL. Marques de Sentmenat, 97 08029 Barcelona
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(*) 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.

Technical parameters

Model(s):	Outdoor unit: AOWD SPACE II 60 Indoor unit: AIWD URBAN II 100
Air-to-water heat pump:	YES
Water-to-water heat pump:	NO
Brine-to-water heat pump:	NO
Low-temperature heat pump:	NO
Equipped with a supplementary heater:	NO
Heat pump combination heater:	NO
Declared climate condition:	WARMER
Parameters are declared for medium-temperature application.	

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	5.1	kW	Seasonal space heating energy efficiency	η_s	164.7	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = -7°C	Pdh	-	kW	Tj = -7°C	COPd	-	-
Tj = 2°C	Pdh	5.02	kW	Tj = 2°C	COPd	2.48	-
Tj = 7°C	Pdh	3.31	kW	Tj = 7°C	COPd	3.67	-
Tj = 12°C	Pdh	1.60	kW	Tj = 12°C	COPd	5.29	-
Tj = bivalent temperature	Pdh	3.31	kW	Tj = bivalent temperature	COPd	3.67	-
Tj = operating limit	Pdh	5.02	kW	Tj = operating limit	COPd	2.48	-
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	Pcyc	-	kW	Cycling interval efficiency	COPcyc	-	-
Degradation co-efficient (**)	Cdh	0.9	--	Heating water operating limit temperature	WTOL	62	°C
Power consumption in modes other than active mode				Supplementary heater			
Off mode	Poff	0.014	kW	Rated heat output (**)	Psup	0	kW
Standby mode	Psb	0.014	kW	Type of energy input	Electrical		
Thermostat-off mode	Pto	0.024	kW				
Crankcase heater mode	Pck	0.000	kW				

Other items			
Capacity control	variable		
Sound power level, indoors/outdoors	LWA	-	dB
Annual energy consumption	QHE	1640	kWh
For air-to-water heat pumps: Rated air flow rate, outdoors	-	2770	m ³ /h
For water-or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	-	-	m ³ /h

For heat pump combination heater:			
Declared load profile	-		
Daily electricity consumption	Q _{elec}	-	kWh
Annual electricity consumption	AEC	-	kWh
Water heating energy efficiency	η_{wh}	-	%
Daily fuel consumption	Q _{fuel}	-	kWh
Annual fuel consumption	AFC	-	GJ

Contact details	Eurofred, S.A. CL. Marques de Sentmenat, 97 08029 Barcelona
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(*) 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.

Technical parameters

Model(s):	Outdoor unit: AOWD SPACE II 80 Indoor unit: AWD URBAN II 100						
Air-to-water heat pump:	YES						
Water-to-water heat pump:	NO						
Brine-to-water heat pump:	NO						
Low-temperature heat pump:	NO						
Equipped with a supplementary heater:	NO						
Heat pump combination heater:	NO						
Declared climate condition:	AVERAGE						
Parameters are declared for medium-temperature application.							
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	6.6	kW	Seasonal space heating energy efficiency	η_s	131.5	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = -7°C	Pdh	5.84	kW	Tj = -7°C	COPd	2.16	-
Tj = 2°C	Pdh	3.75	kW	Tj = 2°C	COPd	3.30	-
Tj = 7°C	Pdh	2.42	kW	Tj = 7°C	COPd	4.34	-
Tj = 12°C	Pdh	1.39	kW	Tj = 12°C	COPd	5.33	-
Tj = bivalent temperature	Pdh	5.84	kW	Tj = bivalent temperature	COPd	2.16	-
Tj = operating limit	Pdh	4.90	kW	Tj = operating limit	COPd	1.84	-
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	Pcyc	-	kW	Cycling interval efficiency	COP _{eyc}	-	-
Degradation co-efficient (**)	Cdh	0.9	--	Heating water operating limit temperature	WTOL	60	°C
Power consumption in modes other than active mode				Supplementary heater			
Off mode	Poff	0.014	kW	Rated heat output (**)	Psup	1.69	kW
Standby mode	Psb	0.014	kW	Type of energy input	Electrical		
Thermostat-off mode	Pto	0.024	kW				
Crankcase heater mode	Pck	0.000	kW				
Other items							
Capacity control	variable			For air-to-water heat pumps: Rated air flow rate, outdoors	-	4030	m ³ /h
Sound power level, indoors/outdoors	L _{WA}	42/59	dB	For water-or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	-	-	m ³ /h
Annual energy consumption	Q _{HE}	4056	kWh				
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	Eurofred, S.A. CL. Marques de Sentmenat, 97 08029 Barcelona						
(*) 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.							

Technical parameters

Model(s):	Outdoor unit: AOWD SPACE II 80 Indoor unit: AIWD URBAN II 100		
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.			
Heating parameters			
Item	Symbol	Value	Unit
Rated heat output (*)	Prated	5.8	kW
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = -7°C	Pdh	3.86	kW
Tj = 2°C	Pdh	2.21	kW
Tj = 7°C	Pdh	1.44	kW
Tj = 12°C	Pdh	1.46	kW
Tj = bivalent temperature	Pdh	4.71	kW
Tj = operating limit	Pdh	2.80	kW
For air-to-water heat pumps: Tj = -15°C	Pdh	-	kW
Bivalent temperature	Tbiv	-15	°C
Cycling interval capacity for heating	Pcyc	-	kW
Degradation co-efficient (**)	Cdh	0.9	--
Power consumption in modes other than active mode			
Off mode	Poff	0.014	kW
Standby mode	Psb	0.014	kW
Thermostat-off mode	Pto	0.024	kW
Crankcase heater mode	Pck	0.000	kW
Other items			
Capacity control	variable		
Sound power level, indoors/outdoors	LWA	-	dB
Annual energy consumption	QHE	4950	kWh
For heat pump combination heater:			
Declared load profile	-		
Daily electricity consumption	Qclec	-	kWh
Annual electricity consumption	AEC	-	kWh
Water heating energy efficiency			
Daily fuel consumption	Qfuel	-	kWh
Annual fuel consumption	AFC	-	GJ
Supplementary heater			
Rated heat output (**)	Psup	2.97	kW
Type of energy input	Electrical		
Flow rates			
For air-to-water heat pumps: Rated air flow rate, outdoors	-	4030	m³/h
For water-or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	-	-	m³/h
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(*) 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.			

Technical parameters

Model(s):	Outdoor unit: AOWD SPACE II 80 Indoor unit: AIWD URBAN II 100
Air-to-water heat pump:	YES
Water-to-water heat pump:	NO
Brine-to-water heat pump:	NO
Low-temperature heat pump:	NO
Equipped with a supplementary heater:	NO
Heat pump combination heater:	NO
Declared climate condition:	WARMER

Parameters are declared for medium-temperature application.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	7.6	kW	Seasonal space heating energy efficiency	η_s	175.8	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = -7 °C	Pdh	-	kW	Tj = -7 °C	COPd	-	-
Tj = 2 °C	Pdh	7.55	kW	Tj = 2 °C	COPd	2.59	-
Tj = 7 °C	Pdh	4.86	kW	Tj = 7 °C	COPd	3.92	-
Tj = 12 °C	Pdh	2.31	kW	Tj = 12 °C	COPd	5.55	-
Tj = bivalent temperature	Pdh	4.86	kW	Tj = bivalent temperature	COPd	3.92	-
Tj = operating limit	Pdh	7.55	kW	Tj = operating limit	COPd	2.59	-
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	Pcyc	-	kW	Cycling interval efficiency	COP _{cyc}	-	-
Degradation co-efficient (**)	Cdh	0.9	--	Heating water operating limit temperature	WTOL	62	°C
Power consumption in modes other than active mode				Supplementary heater			
Off mode	Poff	0.014	kW	Rated heat output (**)	Psup	0	kW
Standby mode	Psb	0.014	kW	Type of energy input	Electrical		
Thermostat-off mode	Pto	0.024	kW				
Crankcase heater mode	Pck	0.000	kW				

Other items			
Capacity control	variable		
Sound power level, indoors/outdoors	LWA	-	dB
Annual energy consumption	QHE	2259	kWh
For air-to-water heat pumps: Rated air flow rate, outdoors	-	4030	m ³ /h
For water-or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	-	-	m ³ /h

For heat pump combination heater:			
Declared load profile	-		
Daily electricity consumption	Q _{elec}	-	kWh
Annual electricity consumption	AEC	-	kWh
Water heating energy efficiency	η_{wh}	-	%
Daily fuel consumption	Q _{fuel}	-	kWh
Annual fuel consumption	AFC	-	GJ

Contact details	Eurofred, S.A. CL. Marques de Sentmenat, 97 08029 Barcelona
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(*) 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.

Technical parameters

Model(s):	Outdoor unit: AOWD SPACE II 100 Indoor unit: AIWD URBAN II 100
Air-to-water heat pump:	YES
Water-to-water heat pump:	NO
Brine-to-water heat pump:	NO
Low-temperature heat pump:	NO
Equipped with a supplementary heater:	NO
Heat pump combination heater:	NO
Declared climate condition:	AVERAGE
Parameters are declared for medium-temperature application.	

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	7.7	kW	Seasonal space heating energy efficiency	η_s	136.6	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = -7 °C	Pdh	6.78	kW	Tj = -7 °C	COPd	2.24	-
Tj = 2 °C	Pdh	4.28	kW	Tj = 2 °C	COPd	3.42	-
Tj = 7 °C	Pdh	2.77	kW	Tj = 7 °C	COPd	4.52	-
Tj = 12 °C	Pdh	1.58	kW	Tj = 12 °C	COPd	5.68	-
Tj = bivalent temperature	Pdh	6.78	kW	Tj = bivalent temperature	COPd	2.24	-
Tj = operating limit	Pdh	5.38	kW	Tj = operating limit	COPd	1.83	-
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	P _{cych}	-	kW	Cycling interval efficiency	COP _{cyc}	-	-
Degradation co-efficient (**)	Cdh	0.9	--	Heating water operating limit temperature	WTOL	60	°C
Power consumption in modes other than active mode				Supplementary heater			
Off mode	P _{off}	0.014	kW	Rated heat output (**)	P _{sup}	2.29	kW
Standby mode	P _{sb}	0.014	kW	Type of energy input	Electrical		
Thermostat-off mode	P _{to}	0.024	kW				
Crankcase heater mode	P _{ck}	0.000	kW				

Other items			
Capacity control	variable		
Sound power level, indoors/outdoors	L _{WA}	42/60	dB
Annual energy consumption	Q _{HE}	4539	kWh
For air-to-water heat pumps: Rated air flow rate, outdoors	-	4030	m ³ /h
For water-or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	-	-	m ³ /h

For heat pump combination heater:			
Declared load profile	-		
Daily electricity consumption	Q _{elec}	-	kWh
Annual electricity consumption	AEC	-	kWh
Water heating energy efficiency	η_{wh}	-	%
Daily fuel consumption	Q _{fuel}	-	kWh
Annual fuel consumption	AFC	-	GJ

Contact details	Eurofred, S.A. CL. Marques de Sentmenat, 97 08029 Barcelona
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(*) 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.

Technical parameters

Model(s):	Outdoor unit: AOWD SPACE II 100 Indoor unit: AIWD URBAN II 100
Air-to-water heat pump:	YES
Water-to-water heat pump:	NO
Brine-to-water heat pump:	NO
Low-temperature heat pump:	NO
Equipped with a supplementary heater:	NO
Heat pump combination heater:	NO
Declared climate condition:	COLDER

Parameters are declared for medium-temperature application.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	6.7	kW	Seasonal space heating energy efficiency	η_s	116.4	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = -7°C	Pdh	4.27	kW	Tj = -7°C	COPd	2.54	-
Tj = 2°C	Pdh	2.57	kW	Tj = 2°C	COPd	3.51	-
Tj = 7°C	Pdh	1.65	kW	Tj = 7°C	COPd	4.37	-
Tj = 12°C	Pdh	1.47	kW	Tj = 12°C	COPd	5.96	-
Tj = bivalent temperature	Pdh	5.47	kW	Tj = bivalent temperature	COPd	2.00	-
Tj = operating limit	Pdh	2.80	kW	Tj = operating limit	COPd	1.22	-
For air-to-water heat pumps: Tj = -15°C	Pdh	-	kW	For air-to-water heat pumps: Tj = -15°C	COPd	-	-
Bivalent temperature	Tbiv	-15	°C	For air-to-water heat pumps: Operation limit temperature	TOL	-22	°C
Cycling interval capacity for heating	Pcyc	-	kW	Cycling interval efficiency	COPcyc	-	-
Degradation co-efficient (**)	Cdh	0.9	--	Heating water operating limit temperature	WTOL	51	°C
Power consumption in modes other than active mode				Supplementary heater			
Off mode	Poff	0.014	kW	Rated heat output (**)	Psup	3.91	kW
Standby mode	Psb	0.014	kW	Type of energy input	Electrical		
Thermostat-off mode	Pto	0.024	kW				
Crankcase heater mode	Pck	0.000	kW				

Other items							
Capacity control	variable			For air-to-water heat pumps: Rated air flow rate, outdoors	-	4030	m³/h
Sound power level, indoors/outdoors	LWA	-	dB	For water-or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	-	-	m³/h
Annual energy consumption	QHE	5540	kWh				

For heat pump combination heater:

Declared load profile				Water heating energy efficiency			
Declared load profile	-			Water heating energy efficiency	η_{wh}	-	%
Daily electricity consumption	Qelec	-	kWh	Daily fuel consumption	Qfuel	-	kWh
Annual electricity consumption	AEC	-	kWh	Annual fuel consumption	AFC	-	GJ

Contact details: Eurofred, S.A. CL. Marques de Sentmenat, 97 08029 Barcelona

(*) 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.

Technical parameters

Model(s):	Outdoor unit: AOWD SPACE II 100 Indoor unit: AIWD URBAN II 100
Air-to-water heat pump:	YES
Water-to-water heat pump:	NO
Brine-to-water heat pump:	NO
Low-temperature heat pump:	NO
Equipped with a supplementary heater:	NO
Heat pump combination heater:	NO
Declared climate condition:	WARMER

Parameters are declared for medium-temperature application.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	8.6	kW	Seasonal space heating energy efficiency	η_s	180.3	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = -7°C	Pdh	-	kW	Tj = -7°C	COPd	-	-
Tj = 2°C	Pdh	8.06	kW	Tj = 2°C	COPd	2.59	-
Tj = 7°C	Pdh	5.54	kW	Tj = 7°C	COPd	4.10	-
Tj = 12°C	Pdh	2.53	kW	Tj = 12°C	COPd	5.82	-
Tj = bivalent temperature	Pdh	5.54	kW	Tj = bivalent temperature	COPd	4.10	-
Tj = operating limit	Pdh	8.15	kW	Tj = operating limit	COPd	2.61	-
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	P _{cyh}	-	kW	Cycling interval efficiency	COP _{cyh}	-	-
Degradation co-efficient (**)	Cdh	0.9	--	Heating water operating limit temperature	WTOL	62	°C
Power consumption in modes other than active mode				Supplementary heater			
Off mode	P _{off}	0.014	kW	Rated heat output (**)	P _{sup}	0.48	kW
Standby mode	P _{sb}	0.014	kW	Type of energy input	Electrical		
Thermostat-off mode	P _{to}	0.024	kW				
Crankcase heater mode	P _{ck}	0.000	kW				

Other items							
Capacity control	variable			For air-to-water heat pumps: Rated air flow rate, outdoors	-	4030	m ³ /h
Sound power level, indoors/outdoors	LWA	-	dB	For water-or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	-	-	m ³ /h
Annual energy consumption	Q _{HE}	2516	kWh				

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: Eurofred, S.A.
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(*) 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.

Technical parameters

Model(s):	Outdoor unit: AOWD SPACE II 120 Indoor unit: AIWD URBAN II 160
Air-to-water heat pump:	YES
Water-to-water heat pump:	NO
Brine-to-water heat pump:	NO
Low-temperature heat pump:	NO
Equipped with a supplementary heater:	NO
Heat pump combination heater:	NO
Declared climate condition:	AVERAGE

Parameters are declared for medium-temperature application.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	11.6	kW	Seasonal space heating energy efficiency	η_s	135.1	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = -7°C	Pdh	10.24	kW	Tj = -7°C	COPd	2.01	-
Tj = 2°C	Pdh	6.52	kW	Tj = 2°C	COPd	3.44	-
Tj = 7°C	Pdh	4.36	kW	Tj = 7°C	COPd	4.59	-
Tj = 12°C	Pdh	3.29	kW	Tj = 12°C	COPd	6.05	-
Tj = bivalent temperature	Pdh	10.24	kW	Tj = bivalent temperature	COPd	2.01	-
Tj = operating limit	Pdh	9.10	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	P _{cyc}	-	kW	Cycling interval efficiency	COP _{cyc}	-	-
Degradation co-efficient (**)	Cdh	0.9	-	Heating water operating limit temperature	WTOL	60	°C
Power consumption in modes other than active mode				Supplementary heater			
Off mode	P _{off}	0.014	kW	Rated heat output (**)	P _{sup}	1.23	kW
Standby mode	P _{sb}	0.014	kW	Type of energy input	Electrical		
Thermostat-off mode	P _{to}	0.024	kW				
Crankcase heater mode	P _{ck}	0.000	kW				

Other items			
Capacity control	variable		
Sound power level, indoors/outdoors	LWA	43/64	dB
Annual energy consumption	Q _{HE}	6927	kWh
For air-to-water heat pumps: Rated air flow rate, outdoors	-	4060	m ³ /h
For water-or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	-	-	m ³ /h

For heat pump combination heater:			
Declared load profile	-		
Daily electricity consumption	Q _{elec}	-	kWh
Annual electricity consumption	AEC	-	kWh
Water heating energy efficiency	η_{wh}	-	%
Daily fuel consumption	Q _{fuel}	-	kWh
Annual fuel consumption	AFC	-	GJ

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(*) 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.

Technical parameters

Model(s):	Outdoor unit: AOWD SPACE II 120 Indoor unit: AIWD URBAN II 160
Air-to-water heat pump:	YES
Water-to-water heat pump:	NO
Brine-to-water heat pump:	NO
Low-temperature heat pump:	NO
Equipped with a supplementary heater:	NO
Heat pump combination heater:	NO
Declared climate condition:	COLDER

Parameters are declared for medium-temperature application.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	10.3	kW	Seasonal space heating energy efficiency	η_s	117.8	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = -7 °C	Pdh	6.63	kW	Tj = -7 °C	COPd	2.63	-
Tj = 2 °C	Pdh	4.06	kW	Tj = 2 °C	COPd	3.60	-
Tj = 7 °C	Pdh	2.78	kW	Tj = 7 °C	COPd	4.54	-
Tj = 12 °C	Pdh	3.33	kW	Tj = 12 °C	COPd	6.25	-
Tj = bivalent temperature	Pdh	8.41	kW	Tj = bivalent temperature	COPd	1.84	-
Tj = operating limit	Pdh	4.19	kW	Tj = operating limit	COPd	1.13	-
For air-to-water heat pumps: Tj = -15 °C	Pdh	-	kW	For air-to-water heat pumps: Tj = -15 °C	COPd	-	-
Bivalent temperature	Tbiv	-15	°C	For air-to-water heat pumps: Operation limit temperature	TOL	-22	°C
Cycling interval capacity for heating	Pcyc	-	kW	Cycling interval efficiency	COPcyc	-	-
Degradation co-efficient (**)	Cdh	0.9	--	Heating water operating limit temperature	WTOL	51	°C
Power consumption in modes other than active mode				Supplementary heater			
Off mode	Poff	0.014	kW	Rated heat output (**)	Psup	6.11	kW
Standby mode	Psb	0.014	kW	Type of energy input	Electrical		
Thermostat-off mode	Pto	0.024	kW				
Crankcase heater mode	Pck	0.000	kW				

Other items			
Capacity control	variable		
Sound power level, indoors/outdoors	LWA	-	dB
Annual energy consumption	QHE	8419	kWh
For air-to-water heat pumps: Rated air flow rate, outdoors	-	4060	m ³ /h
For water-or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	-	-	m ³ /h

For heat pump combination heater:			
Declared load profile	-		
Daily electricity consumption	Qelec	-	kWh
Annual electricity consumption	AEC	-	kWh
Water heating energy efficiency	η_{wh}	-	%
Daily fuel consumption	Qfuel	-	kWh
Annual fuel consumption	AFC	-	GJ

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(*) 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.

Technical parameters

Model(s):	Outdoor unit: AOWD SPACE II 120 Indoor unit: AIWD URBAN II 160
Air-to-water heat pump:	YES
Water-to-water heat pump:	NO
Brine-to-water heat pump:	NO
Low-temperature heat pump:	NO
Equipped with a supplementary heater:	NO
Heat pump combination heater:	NO
Declared climate condition:	WARMER

Parameters are declared for medium-temperature application.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	12.5	kW	Seasonal space heating energy efficiency	η_s	174.0	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = -7°C	Pdh	-	kW	Tj = -7°C	COPd	-	-
Tj = 2°C	Pdh	12.07	kW	Tj = 2°C	COPd	2.31	-
Tj = 7°C	Pdh	8.04	kW	Tj = 7°C	COPd	3.86	-
Tj = 12°C	Pdh	3.75	kW	Tj = 12°C	COPd	5.70	-
Tj = bivalent temperature	Pdh	8.04	kW	Tj = bivalent temperature	COPd	3.86	-
Tj = operating limit	Pdh	12.07	kW	Tj = operating limit	COPd	2.31	-
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	Pcyc	-	kW	Cycling interval efficiency	COPcyc	-	-
Degradation co-efficient (**)	Cdh	0.9	--	Heating water operating limit temperature	WTOL	62	°C
Power consumption in modes other than active mode				Supplementary heater			
Off mode	Poff	0.014	kW	Rated heat output (**)	Psup	0.43	kW
Standby mode	Psb	0.014	kW	Type of energy input	Electrical		
Thermostat-off mode	Pto	0.024	kW				
Crankcase heater mode	Pck	0.000	kW				

Other items							
Capacity control	variable			For air-to-water heat pumps: Rated air flow rate, outdoors	-	4060	m ³ /h
Sound power level, indoors/outdoors	LWA	-	dB	For water-or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	-	-	m ³ /h
Annual energy consumption	QHE	3776	kWh				

For heat pump combination heater:

Declared load profile	-			Water heating energy efficiency	η_{wh}	-	%
Daily electricity consumption	Qclec	-	kWh	Daily fuel consumption	Qfuel	-	kWh
Annual electricity consumption	AEC	-	kWh	Annual fuel consumption	AFC	-	GJ

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(*) 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.

Technical parameters

Model(s):	Outdoor unit: AOWD SPACE II 140 Indoor unit: AIWD URBAN II 160
Air-to-water heat pump:	YES
Water-to-water heat pump:	NO
Brine-to-water heat pump:	NO
Low-temperature heat pump:	NO
Equipped with a supplementary heater:	NO
Heat pump combination heater:	NO
Declared climate condition:	AVERAGE

Parameters are declared for medium-temperature application.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	12.08	kW	Seasonal space heating energy efficiency	η_s	135.6	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = -7 °C	Pdh	10.68	kW	Tj = -7 °C	COPd	2.01	-
Tj = 2 °C	Pdh	6.86	kW	Tj = 2 °C	COPd	3.43	-
Tj = 7 °C	Pdh	4.63	kW	Tj = 7 °C	COPd	4.66	-
Tj = 12 °C	Pdh	3.31	kW	Tj = 12 °C	COPd	6.13	-
Tj = bivalent temperature	Pdh	10.68	kW	Tj = bivalent temperature	COPd	2.01	-
Tj = operating limit	Pdh	9.19	kW	Tj = operating limit	COPd	1.76	-
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	Pcyc	-	kW	Cycling interval efficiency	COPcyc	-	-
Degradation co-efficient (**)	Cdh	0.9	--	Heating water operating limit temperature	WTOL	60	°C
Power consumption in modes other than active mode				Supplementary heater			
Off mode	Poff	0.014	kW	Rated heat output (**)	Psup	1.40	kW
Standby mode	Psb	0.014	kW	Type of energy input	Electrical		
Thermostat-off mode	Pto	0.024	kW				
Crankcase heater mode	Pck	0.000	kW				

Other items							
Capacity control	variable			For air-to-water heat pumps: Rated air flow rate, outdoors	-	4060	m ³ /h
Sound power level, indoors/outdoors	LWA	43/65	dB	For water-or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	-	-	m ³ /h
Annual energy consumption	QHE	7202	kWh				

For heat pump combination heater:							
Declared load profile	-			Water heating energy efficiency	η_{wh}	-	%
Daily electricity consumption	Qclec	-	kWh	Daily fuel consumption	Qfuel	-	kWh
Annual electricity consumption	AEC	-	kWh	Annual fuel consumption	AFC	-	GJ

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(*) 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.

Technical parameters

Model(s):	Outdoor unit: AOWD SPACE II 140 Indoor unit: AIWD URBAN II 160
Air-to-water heat pump:	YES
Water-to-water heat pump:	NO
Brine-to-water heat pump:	NO
Low-temperature heat pump:	NO
Equipped with a supplementary heater:	NO
Heat pump combination heater:	NO
Declared climate condition:	COLDER

Parameters are declared for medium-temperature application.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	11.0	kW	Seasonal space heating energy efficiency	η_s	118.9	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = -7 °C	Pdh	6.89	kW	Tj = -7 °C	COPd	2.66	-
Tj = 2 °C	Pdh	4.32	kW	Tj = 2 °C	COPd	3.66	-
Tj = 7 °C	Pdh	3.06	kW	Tj = 7 °C	COPd	4.72	-
Tj = 12 °C	Pdh	3.33	kW	Tj = 12 °C	COPd	6.25	-
Tj = bivalent temperature	Pdh	8.94	kW	Tj = bivalent temperature	COPd	1.79	-
Tj = operating limit	Pdh	4.20	kW	Tj = operating limit	COPd	1.13	-
For air-to-water heat pumps: Tj = -15 °C	Pdh	-	kW	For air-to-water heat pumps: Tj = -15 °C	COPd	-	-
Bivalent temperature	Tbiv	-15	°C	For air-to-water heat pumps: Operation limit temperature	TOL	-22	°C
Cycling interval capacity for heating	P _{cyc}	-	kW	Cycling interval efficiency	COP _{cyc}	-	-
Degradation co-efficient (**)	Cdh	0.9	--	Heating water operating limit temperature	WTOL	51	°C
Power consumption in modes other than active mode				Supplementary heater			
Off mode	P _{off}	0.014	kW	Rated heat output (**)	P _{sup}	6.80	kW
Standby mode	P _{sb}	0.014	kW	Type of energy input	Electrical		
Thermostat-off mode	P _{to}	0.024	kW				
Crankcase heater mode	P _{ck}	0.000	kW				

Other items			
Capacity control	variable		
Sound power level, indoors/outdoors	LWA	-	dB
Annual energy consumption	Q _{HE}	8866	kWh
For air-to-water heat pumps: Rated air flow rate, outdoors	-	4060	m ³ /h
For water-or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	-	-	m ³ /h

For heat pump combination heater:			
Declared load profile	-		
Daily electricity consumption	Q _{elec}	-	kWh
Annual electricity consumption	AEC	-	kWh
Water heating energy efficiency		η_{wh}	-
Daily fuel consumption		Q _{fuel}	-
Annual fuel consumption		AFC	-

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(*) 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.

Technical parameters

Model(s):	Outdoor unit: AOWD SPACE II 140 Indoor unit: AIWD URBAN II 160
Air-to-water heat pump:	YES
Water-to-water heat pump:	NO
Brine-to-water heat pump:	NO
Low-temperature heat pump:	NO
Equipped with a supplementary heater:	NO
Heat pump combination heater:	NO
Declared climate condition:	WARMER

Parameters are declared for medium-temperature application.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	13.7	kW	Seasonal space heating energy efficiency	η_s	176.5	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = -7 °C	Pdh	-	kW	Tj = -7 °C	COPd	-	-
Tj = 2 °C	Pdh	13.04	kW	Tj = 2 °C	COPd	2.20	-
Tj = 7 °C	Pdh	8.83	kW	Tj = 7 °C	COPd	3.91	-
Tj = 12 °C	Pdh	4.08	kW	Tj = 12 °C	COPd	5.90	-
Tj = bivalent temperature	Pdh	8.83	kW	Tj = bivalent temperature	COPd	3.91	-
Tj = operating limit	Pdh	13.04	kW	Tj = operating limit	COPd	2.20	-
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	Pcyc	-	kW	Cycling interval efficiency	COPcyc	-	-
Degradation co-efficient (**)	Cdh	0.9	--	Heating water operating limit temperature	WTOL	62	°C
Power consumption in modes other than active mode				Supplementary heater			
Off mode	Poff	0.014	kW	Rated heat output (**)	Psup	0.66	kW
Standby mode	Psb	0.014	kW	Type of energy input	Electrical		
Thermostat-off mode	Pto	0.024	kW				
Crankcase heater mode	Pck	0.000	kW				

Other items							
Capacity control	variable			For air-to-water heat pumps: Rated air flow rate, outdoors	-	4060	m ³ /h
Sound power level, indoors/outdoors	LWA	-	dB	For water-or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	-	-	m ³ /h
Annual energy consumption	QHE	4088	kWh				

For heat pump combination heater:

Declared load profile	-			Water heating energy efficiency	η_{wh}	-	%
Daily electricity consumption	Qclec	-	kWh	Daily fuel consumption	Qfuel	-	kWh
Annual electricity consumption	AEC	-	kWh	Annual fuel consumption	AFC	-	GJ

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(*) 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.

Technical parameters

Model(s):	Outdoor unit: AOWD SPACE II 160 Indoor unit: AIWD URBAN II 160
Air-to-water heat pump:	YES
Water-to-water heat pump:	NO
Brine-to-water heat pump:	NO
Low-temperature heat pump:	NO
Equipped with a supplementary heater:	NO
Heat pump combination heater:	NO
Declared climate condition:	AVERAGE

Parameters are declared for medium-temperature application.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	13.0	kW	Seasonal space heating energy efficiency	η_s	133.3	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = -7 °C	Pdh	11.52	kW	Tj = -7 °C	COPd	1.99	-
Tj = 2 °C	Pdh	7.18	kW	Tj = 2 °C	COPd	3.34	-
Tj = 7 °C	Pdh	4.67	kW	Tj = 7 °C	COPd	4.61	-
Tj = 12 °C	Pdh	3.31	kW	Tj = 12 °C	COPd	6.07	-
Tj = bivalent temperature	Pdh	11.52	kW	Tj = bivalent temperature	COPd	1.99	-
Tj = operating limit	Pdh	10.33	kW	Tj = operating limit	COPd	1.80	-
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	Pcyc	-	kW	Cycling interval efficiency	COPcyc	-	-
Degradation co-efficient (**)	Cdh	0.9	--	Heating water operating limit temperature	WTOL	60	°C
Power consumption in modes other than active mode				Supplementary heater			
Off mode	Poff	0.014	kW	Rated heat output (**)	Psup	2.68	kW
Standby mode	Psb	0.014	kW	Type of energy input	Electrical		
Thermostat-off mode	Pto	0.024	kW				
Crankcase heater mode	Pck	0.000	kW				

Other items							
Capacity control	variable			For air-to-water heat pumps: Rated air flow rate, outdoors	-	4650	m ³ /h
Sound power level, indoors/outdoors	LWA	43/68	dB	For water-or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	-	-	m ³ /h
Annual energy consumption	QHE	7895	kWh				

For heat pump combination heater:							
Declared load profile	-			Water heating energy efficiency	η_{wh}	-	%
Daily electricity consumption	Qclec	-	kWh	Daily fuel consumption	Qfuel	-	kWh
Annual electricity consumption	AEC	-	kWh	Annual fuel consumption	AFC	-	GJ

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(*) 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.

Technical parameters

Model(s):	Outdoor unit: AOWD SPACE II 160 Indoor unit: AIWD URBAN II 160
Air-to-water heat pump:	YES
Water-to-water heat pump:	NO
Brine-to-water heat pump:	NO
Low-temperature heat pump:	NO
Equipped with a supplementary heater:	NO
Heat pump combination heater:	NO
Declared climate condition:	COLDER

Parameters are declared for medium-temperature application.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	11.8	kW	Seasonal space heating energy efficiency	η_s	121.8	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = -7 °C	Pdh	7.64	kW	Tj = -7 °C	COPd	2.65	-
Tj = 2 °C	Pdh	4.42	kW	Tj = 2 °C	COPd	3.79	-
Tj = 7 °C	Pdh	2.97	kW	Tj = 7 °C	COPd	4.81	-
Tj = 12 °C	Pdh	3.43	kW	Tj = 12 °C	COPd	6.29	-
Tj = bivalent temperature	Pdh	9.61	kW	Tj = bivalent temperature	COPd	1.86	-
Tj = operating limit	Pdh	5.21	kW	Tj = operating limit	COPd	1.23	-
For air-to-water heat pumps: Tj = -15 °C	Pdh	-	kW	For air-to-water heat pumps: Tj = -15 °C	COPd	-	-
Bivalent temperature	Tbiv	-15	°C	For air-to-water heat pumps: Operation limit temperature	TOL	-22	°C
Cycling interval capacity for heating	Pcyc	-	kW	Cycling interval efficiency	COPcyc	-	-
Degradation co-efficient (**)	Cdh	0.9	--	Heating water operating limit temperature	WTOL	51	°C
Power consumption in modes other than active mode				Supplementary heater			
Off mode	Poff	0.014	kW	Rated heat output (**)	Psup	6.59	kW
Standby mode	Psb	0.014	kW	Type of energy input	Electrical		
Thermostat-off mode	Pto	0.024	kW				
Crankcase heater mode	Pck	0.000	kW				

Other items							
Capacity control	variable			For air-to-water heat pumps: Rated air flow rate, outdoors	-	4650	m ³ /h
Sound power level, indoors/outdoors	LWA	-	dB	For water-or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	-	-	m ³ /h
Annual energy consumption	Q _{HE}	9309	kWh				

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

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(*) 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.

Technical parameters

Model(s):	Outdoor unit: AOWD SPACE II 160 Indoor unit: AIWD URBAN II 160
Air-to-water heat pump:	YES
Water-to-water heat pump:	NO
Brine-to-water heat pump:	NO
Low-temperature heat pump:	NO
Equipped with a supplementary heater:	NO
Heat pump combination heater:	NO
Declared climate condition:	WARMER

Parameters are declared for medium-temperature application.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	13.8	kW	Seasonal space heating energy efficiency	η_s	176.1	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = -7 °C	Pdh	-	kW	Tj = -7 °C	COPd	-	-
Tj = 2 °C	Pdh	13.38	kW	Tj = 2 °C	COPd	2.29	-
Tj = 7 °C	Pdh	8.86	kW	Tj = 7 °C	COPd	3.84	-
Tj = 12 °C	Pdh	4.06	kW	Tj = 12 °C	COPd	5.86	-
Tj = bivalent temperature	Pdh	8.86	kW	Tj = bivalent temperature	COPd	3.84	-
Tj = operating limit	Pdh	13.38	kW	Tj = operating limit	COPd	2.29	-
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	Pcyc	-	kW	Cycling interval efficiency	COP _{cyc}	-	-
Degradation co-efficient (**)	Cdh	0.9	--	Heating water operating limit temperature	WTOL	62	°C
Power consumption in modes other than active mode				Supplementary heater			
Off mode	Poff	0.014	kW	Rated heat output (**)	Psup	0.42	kW
Standby mode	Psb	0.014	kW	Type of energy input	Electrical		
Thermostat-off mode	Pto	0.024	kW				
Crankcase heater mode	Pck	0.000	kW				

Other items							
Capacity control	variable			For air-to-water heat pumps: Rated air flow rate, outdoors	-	4650	m ³ /h
Sound power level, indoors/outdoors	LWA	-	dB	For water-or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	-	-	m ³ /h
Annual energy consumption	Q _{HE}	4112	kWh				

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

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(*) 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.

Technical parameters

Model(s):	Outdoor unit: AOWD SPACE II 120T Indoor unit: AIWD URBAN II 160
Air-to-water heat pump:	YES
Water-to-water heat pump:	NO
Brine-to-water heat pump:	NO
Low-temperature heat pump:	NO
Equipped with a supplementary heater:	NO
Heat pump combination heater:	NO
Declared climate condition:	AVERAGE
Parameters are declared for medium-temperature application.	

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	11.6	kW	Seasonal space heating energy efficiency	η_s	135.1	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = -7°C	Pdh	10.24	kW	Tj = -7°C	COPd	2.01	-
Tj = 2°C	Pdh	6.52	kW	Tj = 2°C	COPd	3.44	-
Tj = 7°C	Pdh	4.36	kW	Tj = 7°C	COPd	4.59	-
Tj = 12°C	Pdh	3.29	kW	Tj = 12°C	COPd	6.05	-
Tj = bivalent temperature	Pdh	10.24	kW	Tj = bivalent temperature	COPd	2.01	-
Tj = operating limit	Pdh	9.10	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	P _{cyc}	-	kW	Cycling interval efficiency	COP _{cyc}	-	-
Degradation co-efficient (**)	Cdh	0.9	--	Heating water operating limit temperature	WTOL	60	°C
Power consumption in modes other than active mode				Supplementary heater			
Off mode	P _{off}	0.020	kW	Rated heat output (**)	P _{sup}	1.23	kW
Standby mode	P _{sb}	0.020	kW	Type of energy input	Electrical		
Thermostat-off mode	P _{to}	0.030	kW				
Crankcase heater mode	P _{ck}	0.000	kW				

Other items							
Capacity control	variable			For air-to-water heat pumps: Rated air flow rate, outdoors	-	4060	m ³ /h
Sound power level, indoors/outdoors	L _{WA}	43/64	dB	For water-or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	-	-	m ³ /h
Annual energy consumption	Q _{HE}	6928	kWh				

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

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(*) 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.

Technical parameters

Model(s):	Outdoor unit: AOWD SPACE II 120T Indoor unit: AIWD URBAN II 160
Air-to-water heat pump:	YES
Water-to-water heat pump:	NO
Brine-to-water heat pump:	NO
Low-temperature heat pump:	NO
Equipped with a supplementary heater:	NO
Heat pump combination heater:	NO
Declared climate condition:	COLDER

Parameters are declared for medium-temperature application.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	10.3	kW	Seasonal space heating energy efficiency	η_s	117.7	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = -7 °C	Pdh	6.63	kW	Tj = -7 °C	COPd	2.63	-
Tj = 2 °C	Pdh	4.06	kW	Tj = 2 °C	COPd	3.60	-
Tj = 7 °C	Pdh	2.78	kW	Tj = 7 °C	COPd	4.54	-
Tj = 12 °C	Pdh	3.33	kW	Tj = 12 °C	COPd	6.25	-
Tj = bivalent temperature	Pdh	8.41	kW	Tj = bivalent temperature	COPd	1.84	-
Tj = operating limit	Pdh	4.19	kW	Tj = operating limit	COPd	1.13	-
For air-to-water heat pumps: Tj = -15 °C	Pdh	-	kW	For air-to-water heat pumps: Tj = -15 °C	COPd	-	-
Bivalent temperature	Tbiv	-15	°C	For air-to-water heat pumps: Operation limit temperature	TOL	-22	°C
Cycling interval capacity for heating	P _{cyc}	-	kW	Cycling interval efficiency	COP _{cyc}	-	-
Degradation co-efficient (**)	Cdh	0.9	--	Heating water operating limit temperature	WTOL	51	°C
Power consumption in modes other than active mode				Supplementary heater			
Off mode	P _{off}	0.020	kW	Rated heat output (**)	P _{sup}	6.11	kW
Standby mode	P _{sb}	0.020	kW	Type of energy input	Electrical		
Thermostat-off mode	P _{to}	0.030	kW				
Crankcase heater mode	P _{ck}	0.000	kW				

Other items			
Capacity control	variable		
Sound power level, indoors/outdoors	LWA	-	dB
Annual energy consumption	Q _{HE}	8420	kWh
For air-to-water heat pumps: Rated air flow rate, outdoors	-	4060	m ³ /h
For water-or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	-	-	m ³ /h

For heat pump combination heater:			
Declared load profile	-		
Daily electricity consumption	Q _{elec}	-	kWh
Annual electricity consumption	AEC	-	kWh
Water heating energy efficiency			
Daily fuel consumption	Q _{fuel}	-	kWh
Annual fuel consumption	AFC	-	GJ

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(*) 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.

Technical parameters

Model(s):	Outdoor unit: AOWD SPACE II 120T Indoor unit: AIWD URBAN II 160
Air-to-water heat pump:	YES
Water-to-water heat pump:	NO
Brine-to-water heat pump:	NO
Low-temperature heat pump:	NO
Equipped with a supplementary heater:	NO
Heat pump combination heater:	NO
Declared climate condition:	WARMER

Parameters are declared for medium-temperature application.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	12.5	kW	Seasonal space heating energy efficiency	η_s	173.8	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = -7 °C	Pdh	-	kW	Tj = -7 °C	COPd	-	-
Tj = 2 °C	Pdh	12.07	kW	Tj = 2 °C	COPd	2.31	-
Tj = 7 °C	Pdh	8.04	kW	Tj = 7 °C	COPd	3.86	-
Tj = 12 °C	Pdh	3.75	kW	Tj = 12 °C	COPd	5.70	-
Tj = bivalent temperature	Pdh	8.04	kW	Tj = bivalent temperature	COPd	3.86	-
Tj = operating limit	Pdh	12.07	kW	Tj = operating limit	COPd	2.31	-
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	Pcyc	-	kW	Cycling interval efficiency	COPcyc	-	-
Degradation co-efficient (**)	Cdh	0.9	--	Heating water operating limit temperature	WTOL	62	°C
Power consumption in modes other than active mode				Supplementary heater			
Off mode	Poff	0.020	kW	Rated heat output (**)	Psup	0.43	kW
Standby mode	Psb	0.020	kW	Type of energy input	Electrical		
Thermostat-off mode	Pto	0.030	kW				
Crankcase heater mode	Pck	0.000	kW				

Other items							
Capacity control	variable			For air-to-water heat pumps: Rated air flow rate, outdoors	-	4060	m ³ /h
Sound power level, indoors/outdoors	LWA	-	dB	For water-or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	-	-	m ³ /h
Annual energy consumption	QHE	3780	kWh				

For heat pump combination heater:							
Declared load profile	-			Water heating energy efficiency	η_{wh}	-	%
Daily electricity consumption	Qelec	-	kWh	Daily fuel consumption	Qfuel	-	kWh
Annual electricity consumption	AEC	-	kWh	Annual fuel consumption	AFC	-	GJ

Contact details	Eurofred, S.A. CL. Marques de Sentmenat, 97 08029 Barcelona		
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(*) 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.

Technical parameters

Model(s):	Outdoor unit: AOWD SPACE II 140T Indoor unit: AIWD URBAN II 160
Air-to-water heat pump:	YES
Water-to-water heat pump:	NO
Brine-to-water heat pump:	NO
Low-temperature heat pump:	NO
Equipped with a supplementary heater:	NO
Heat pump combination heater:	NO
Declared climate condition:	AVERAGE

Parameters are declared for medium-temperature application.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	12.08	kW	Seasonal space heating energy efficiency	η_s	135.6	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = -7 °C	Pdh	10.68	kW	Tj = -7 °C	COPd	2.01	-
Tj = 2 °C	Pdh	6.86	kW	Tj = 2 °C	COPd	3.43	-
Tj = 7 °C	Pdh	4.63	kW	Tj = 7 °C	COPd	4.66	-
Tj = 12 °C	Pdh	3.31	kW	Tj = 12 °C	COPd	6.13	-
Tj = bivalent temperature	Pdh	10.68	kW	Tj = bivalent temperature	COPd	2.01	-
Tj = operating limit	Pdh	9.19	kW	Tj = operating limit	COPd	1.76	-
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	Pcyc	-	kW	Cycling interval efficiency	COPcyc	-	-
Degradation co-efficient (**)	Cdh	0.9	--	Heating water operating limit temperature	WTOL	60	°C
Power consumption in modes other than active mode				Supplementary heater			
Off mode	Poff	0.020	kW	Rated heat output (**)	Psup	1.40	kW
Standby mode	Psb	0.020	kW	Type of energy input	Electrical		
Thermostat-off mode	Pto	0.030	kW				
Crankcase heater mode	Pck	0.000	kW				

Other items			
Capacity control	variable		
Sound power level, indoors/outdoors	LWA	43/65	dB
Annual energy consumption	QHE	7203	kWh
For air-to-water heat pumps: Rated air flow rate, outdoors	-	4060	m ³ /h
For water-or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	-	-	m ³ /h

For heat pump combination heater:			
Declared load profile	-		
Daily electricity consumption	Qelec	-	kWh
Annual electricity consumption	AEC	-	kWh
Water heating energy efficiency	η_{wh}	-	%
Daily fuel consumption	Qfuel	-	kWh
Annual fuel consumption	AFC	-	GJ

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(*) 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.

Technical parameters

Model(s):	Outdoor unit: AOWD SPACE II 140T Indoor unit: AIWD URBAN II 160
Air-to-water heat pump:	YES
Water-to-water heat pump:	NO
Brine-to-water heat pump:	NO
Low-temperature heat pump:	NO
Equipped with a supplementary heater:	NO
Heat pump combination heater:	NO
Declared climate condition:	COLDER

Parameters are declared for medium-temperature application.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	11.0	kW	Seasonal space heating energy efficiency	η_s	118.9	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = -7 °C	Pdh	6.89	kW	Tj = -7 °C	COPd	2.66	-
Tj = 2 °C	Pdh	4.32	kW	Tj = 2 °C	COPd	3.66	-
Tj = 7 °C	Pdh	3.06	kW	Tj = 7 °C	COPd	4.72	-
Tj = 12 °C	Pdh	3.33	kW	Tj = 12 °C	COPd	6.25	-
Tj = bivalent temperature	Pdh	8.94	kW	Tj = bivalent temperature	COPd	1.79	-
Tj = operating limit	Pdh	4.20	kW	Tj = operating limit	COPd	1.13	-
For air-to-water heat pumps: Tj = -15 °C	Pdh	-	kW	For air-to-water heat pumps: Tj = -15 °C	COPd	-	-
Bivalent temperature	Tbiv	-15	°C	For air-to-water heat pumps: Operation limit temperature	TOL	-22	°C
Cycling interval capacity for heating	Pcyc	-	kW	Cycling interval efficiency	COPcyc	-	-
Degradation co-efficient (**)	Cdh	0.9	--	Heating water operating limit temperature	WTOL	51	°C
Power consumption in modes other than active mode				Supplementary heater			
Off mode	Poff	0.020	kW	Rated heat output (**)	Psup	6.80	kW
Standby mode	Psb	0.020	kW	Type of energy input	Electrical		
Thermostat-off mode	Pto	0.030	kW				
Crankcase heater mode	Pck	0.000	kW				

Other items							
Capacity control	variable			For air-to-water heat pumps: Rated air flow rate, outdoors	-	4060	m ³ /h
Sound power level, indoors/outdoors	LWA	-	dB	For water-or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	-	-	m ³ /h
Annual energy consumption	QHE	8867	kWh				

For heat pump combination heater:							
Declared load profile	-			Water heating energy efficiency	η_{wh}	-	%
Daily electricity consumption	Qelec	-	kWh	Daily fuel consumption	Qfuel	-	kWh
Annual electricity consumption	AEC	-	kWh	Annual fuel consumption	AFC	-	GJ

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(*) 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.

Technical parameters

Model(s):	Outdoor unit: AOWD SPACE II 140T Indoor unit: AIWD URBAN II 160
Air-to-water heat pump:	YES
Water-to-water heat pump:	NO
Brine-to-water heat pump:	NO
Low-temperature heat pump:	NO
Equipped with a supplementary heater:	NO
Heat pump combination heater:	NO
Declared climate condition:	WARMER

Parameters are declared for medium-temperature application.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	13.7	kW	Seasonal space heating energy efficiency	η_s	176.4	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = -7 °C	Pdh	-	kW	Tj = -7 °C	COPd	-	-
Tj = 2 °C	Pdh	13.04	kW	Tj = 2 °C	COPd	2.20	-
Tj = 7 °C	Pdh	8.83	kW	Tj = 7 °C	COPd	3.91	-
Tj = 12 °C	Pdh	4.08	kW	Tj = 12 °C	COPd	5.90	-
Tj = bivalent temperature	Pdh	8.83	kW	Tj = bivalent temperature	COPd	3.91	-
Tj = operating limit	Pdh	13.04	kW	Tj = operating limit	COPd	2.20	-
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	Pcyc	-	kW	Cycling interval efficiency	COPcyc	-	-
Degradation co-efficient (**)	Cdh	0.9	--	Heating water operating limit temperature	WTOL	62	°C
Power consumption in modes other than active mode				Supplementary heater			
Off mode	Poff	0.020	kW	Rated heat output (**)	Psup	0.66	kW
Standby mode	Psb	0.020	kW	Type of energy input	Electrical		
Thermostat-off mode	Pto	0.030	kW				
Crankcase heater mode	Pck	0.000	kW				

Other items							
Capacity control	variable			For air-to-water heat pumps: Rated air flow rate, outdoors	-	4060	m ³ /h
Sound power level, indoors/outdoors	LWA	-	dB	For water-or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	-	-	m ³ /h
Annual energy consumption	QHE	4092	kWh				

For heat pump combination heater:							
Declared load profile	-			Water heating energy efficiency	η_{wh}	-	%
Daily electricity consumption	Qclec	-	kWh	Daily fuel consumption	Qfuel	-	kWh
Annual electricity consumption	AEC	-	kWh	Annual fuel consumption	AFC	-	GJ

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(*) 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.

Technical parameters

Model(s):	Outdoor unit: AOWD SPACE II 160T Indoor unit: AIWD URBAN II 160
Air-to-water heat pump:	YES
Water-to-water heat pump:	NO
Brine-to-water heat pump:	NO
Low-temperature heat pump:	NO
Equipped with a supplementary heater:	NO
Heat pump combination heater:	NO
Declared climate condition:	AVERAGE

Parameters are declared for medium-temperature application.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	13.0	kW	Seasonal space heating energy efficiency	η_s	133.2	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = -7 °C	Pdh	11.52	kW	Tj = -7 °C	COPd	1.99	-
Tj = 2 °C	Pdh	7.18	kW	Tj = 2 °C	COPd	3.34	-
Tj = 7 °C	Pdh	4.67	kW	Tj = 7 °C	COPd	4.61	-
Tj = 12 °C	Pdh	3.31	kW	Tj = 12 °C	COPd	6.07	-
Tj = bivalent temperature	Pdh	11.52	kW	Tj = bivalent temperature	COPd	1.99	-
Tj = operating limit	Pdh	10.33	kW	Tj = operating limit	COPd	1.80	-
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	Pcyc	-	kW	Cycling interval efficiency	COPcyc	-	-
Degradation co-efficient (**)	Cdh	0.9	--	Heating water operating limit temperature	WTOL	60	°C
Power consumption in modes other than active mode				Supplementary heater			
Off mode	Poff	0.020	kW	Rated heat output (**)	Psup	2.67	kW
Standby mode	Psb	0.020	kW	Type of energy input	Electrical		
Thermostat-off mode	Pto	0.030	kW				
Crankcase heater mode	Pck	0.000	kW				

Other items							
Capacity control	variable			For air-to-water heat pumps: Rated air flow rate, outdoors	-	4650	m ³ /h
Sound power level, indoors/outdoors	LWA	43/68	dB	For water-or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	-	-	m ³ /h
Annual energy consumption	QHE	7896	kWh				

For heat pump combination heater:

Declared load profile	-			Water heating energy efficiency	η_{wh}	-	%
Daily electricity consumption	Qclec	-	kWh	Daily fuel consumption	Qfuel	-	kWh
Annual electricity consumption	AEC	-	kWh	Annual fuel consumption	AFC	-	GJ

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(*) 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.

Technical parameters

Model(s):	Outdoor unit: AOWD SPACE II 160T Indoor unit: AIWD URBAN II 160
Air-to-water heat pump:	YES
Water-to-water heat pump:	NO
Brine-to-water heat pump:	NO
Low-temperature heat pump:	NO
Equipped with a supplementary heater:	NO
Heat pump combination heater:	NO
Declared climate condition:	COLDER
Parameters are declared for medium-temperature application.	

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	11.8	kW	Seasonal space heating energy efficiency	η_s	121.8	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = -7°C	Pdh	7.64	kW	Tj = -7°C	COPd	2.65	-
Tj = 2°C	Pdh	4.42	kW	Tj = 2°C	COPd	3.79	-
Tj = 7°C	Pdh	2.97	kW	Tj = 7°C	COPd	4.81	-
Tj = 12°C	Pdh	3.43	kW	Tj = 12°C	COPd	6.29	-
Tj = bivalent temperature	Pdh	9.61	kW	Tj = bivalent temperature	COPd	1.86	-
Tj = operating limit	Pdh	5.21	kW	Tj = operating limit	COPd	1.23	-
For air-to-water heat pumps: Tj = -15°C	Pdh	-	kW	For air-to-water heat pumps: Tj = -15°C	COPd	-	-
Bivalent temperature	Tbiv	-15	°C	For air-to-water heat pumps: Operation limit temperature	TOL	-22	°C
Cycling interval capacity for heating	Pcyc	-	kW	Cycling interval efficiency	COPcyc	-	-
Degradation co-efficient (**)	Cdh	0.9	-	Heating water operating limit temperature	WTOL	51	°C
Power consumption in modes other than active mode				Supplementary heater			
Off mode	Poff	0.020	kW	Rated heat output (**)	Psup	6.59	kW
Standby mode	Psb	0.020	kW	Type of energy input	Electrical		
Thermostat-off mode	Pto	0.030	kW				
Crankcase heater mode	Pck	0.000	kW				

Other items							
Capacity control	variable			For air-to-water heat pumps: Rated air flow rate, outdoors	-	4650	m ³ /h
Sound power level, indoors/outdoors	LWA	-	dB	For water-or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	-	-	m ³ /h
Annual energy consumption	QHE	9310	kWh				

For heat pump combination heater:							
Declared load profile	-			Water heating energy efficiency	η_{wh}	-	%
Daily electricity consumption	Qdec	-	kWh	Daily fuel consumption	Qfuel	-	kWh
Annual electricity consumption	AEC	-	kWh	Annual fuel consumption	AFC	-	GJ

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(*) 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.

Technical parameters

Model(s):	Outdoor unit: AOWD SPACE II 160T Indoor unit: AIWD URBAN II 160
Air-to-water heat pump:	YES
Water-to-water heat pump:	NO
Brine-to-water heat pump:	NO
Low-temperature heat pump:	NO
Equipped with a supplementary heater:	NO
Heat pump combination heater:	NO
Declared climate condition:	WARMER

Parameters are declared for medium-temperature application.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	13.8	kW	Seasonal space heating energy efficiency	η_s	175.9	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = -7 °C	Pdh	-	kW	Tj = -7 °C	COPd	-	-
Tj = 2 °C	Pdh	13.38	kW	Tj = 2 °C	COPd	2.29	-
Tj = 7 °C	Pdh	8.86	kW	Tj = 7 °C	COPd	3.84	-
Tj = 12 °C	Pdh	4.06	kW	Tj = 12 °C	COPd	5.86	-
Tj = bivalent temperature	Pdh	8.86	kW	Tj = bivalent temperature	COPd	3.84	-
Tj = operating limit	Pdh	13.38	kW	Tj = operating limit	COPd	2.29	-
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	Pcyc	-	kW	Cycling interval efficiency	COPcyc	-	-
Degradation co-efficient (**)	Cdh	0.9	--	Heating water operating limit temperature	WTOL	62	°C
Power consumption in modes other than active mode				Supplementary heater			
Off mode	Poff	0.014	kW	Rated heat output (**)	Psup	0.42	kW
Standby mode	Psb	0.014	kW	Type of energy input	Electrical		
Thermostat-off mode	Pto	0.029	kW				
Crankcase heater mode	Pck	0.000	kW				

Other items							
Capacity control	variable			For air-to-water heat pumps: Rated air flow rate, outdoors	-	4650	m ³ /h
Sound power level, indoors/outdoors	LWA	-	dB	For water-or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	-	-	m ³ /h
Annual energy consumption	Q _{HE}	4116	kWh				

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	Eurofred, S.A. CL. Marques de Sentmenat, 97 08029 Barcelona
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(*) 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.

Information requirements for comfort chillers

Model(s):		Outdoor unit: AOWD SPACE II 40 Indoor unit: AIWD URBAN II 100					
Outdoor side heat exchanger of chiller:		Air to water					
Indoor side heat exchanger chiller:		Water					
Type:		Compressor driven vapour compression					
Driver of compressor:		Electric motor					
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated cooling capacity	$P_{\text{Rated,c}}$	4.7	kW	Seasonal space cooling energy efficiency	$\eta_{\text{s,c}}$	196.5	%
Declared cooling capacity for part load at given outdoor temperature T_j				Declared energy efficiency ratio for part load at given outdoor temperature T_j			
$T_j=+35^\circ\text{C}$	P_{dc}	4.66	kW	$T_j=+35^\circ\text{C}$	EER_d	3.52	-
$T_j=+30^\circ\text{C}$	P_{dc}	3.66	kW	$T_j=+30^\circ\text{C}$	EER_d	4.76	-
$T_j=+25^\circ\text{C}$	P_{dc}	2.21	kW	$T_j=+25^\circ\text{C}$	EER_d	5.72	-
$T_j=+20^\circ\text{C}$	P_{dc}	0.94	kW	$T_j=+20^\circ\text{C}$	EER_d	5.72	-
Degradation co-efficient for chillers (*)	C_{dc}	0.9	-				
Power consumption in modes other than "active mode"							
Off mode	P_{OFF}	0.014	kW	Crankcase heater mode	P_{CK}	0.000	kW
Thermosat-off mode	P_{TO}	0.010	kW	Standby mode	P_{SB}	0.014	kW
Other items							
Capacity control	variable			For air-to-water comfort chillers: air flow rate, outdoor measured	-	2770	m^3/h
Sound power level, indoors / outdoors	L_{WA}	38/56	dB				
Emissions of nitrogen oxides (if applicable)	$\text{NO}_x(**)$	-	mg/kWh input GCV	For water / brine-to-water chillers: Rated brine or water flow rate, outdoor side heat exchanger	-	-	m^3/h
GWP of the refrigerant	-	675	kg CO_2 eq (100years)				
Standard rating conditions used	Low temperature application						
Contact details	Eurofred, S.A. CL. Marques de Sentmenat, 97 08029 Barcelona						
(*) If C_{dc} is not determined by measurement then the default degradation coefficient of chillers shall be 0,9. (**) From 26 September 2018.							

Information requirements for comfort chillers

Model(s):	Outdoor unit: AOWD SPACE II 40 Indoor unit: AIWD URBAN II 100						
Outdoor side heat exchanger of chiller:	Air to water						
Indoor side heat exchanger chiller:	Water						
Type:	Compressor driven vapour compression						
Driver of compressor:	Electric motor						
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated cooling capacity	$P_{\text{Rated,c}}$	4.5	kW	Seasonal space cooling energy efficiency	$\eta_{\text{s,c}}$	307.7	%
Declared cooling capacity for part load at given outdoor temperature T_j				Declared energy efficiency ratio for part load at given outdoor temperature T_j			
$T_j=+35^\circ\text{C}$	P_{dc}	4.51	kW	$T_j=+35^\circ\text{C}$	EER_d	5.54	-
$T_j=+30^\circ\text{C}$	P_{dc}	3.44	kW	$T_j=+30^\circ\text{C}$	EER_d	7.23	-
$T_j=+25^\circ\text{C}$	P_{dc}	2.19	kW	$T_j=+25^\circ\text{C}$	EER_d	8.94	-
$T_j=+20^\circ\text{C}$	P_{dc}	1.13	kW	$T_j=+20^\circ\text{C}$	EER_d	10.48	-
Degradation co-efficient for chillers (*)	C_{dc}	0.9	-				
Power consumption in modes other than "active mode"							
Off mode	P_{OFF}	0.014	kW	Crankcase heater mode	P_{CK}	0.000	kW
Thermosat-off mode	P_{TO}	0.010	kW	Standby mode	P_{SB}	0.014	kW
Other items							
Capacity control	variable			For air-to-water comfort chillers: air flow rate, outdoor measured	-	2770	m^3/h
Sound power level, indoors / outdoors	L_{WA}	38/55	dB				
Emissions of nitrogen oxides (if applicable)	$\text{NO}_x(**)$	-	mg/kWh input GCV	For water / brine-to-water chillers: Rated brine or water flow rate, outdoor side heat exchanger	-	-	m^3/h
GWP of the refrigerant	-	675	kg CO_2 eq (100years)				
Standard rating conditions used	Medium temperature application						
Contact details	Eurofred, S.A. CL. Marques de Sentmenat, 97 08029 Barcelona						
(*) If C_{dc} is not determined by measurement then the default degradation coefficient of chillers shall be 0,9. (**) From 26 September 2018.							

Information requirements for comfort chillers

Model(s):				Outdoor unit: AOWD SPACE II 60 Indoor unit: AIWD URBAN II 100			
Outdoor side heat exchanger of chiller:				Air to water			
Indoor side heat exchanger chiller:				Water			
Type:				Compressor driven vapour compression			
Driver of compressor:				Electric motor			
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated cooling capacity	$P_{rated,c}$	6.3	kW	Seasonal space cooling energy efficiency	$\eta_{s,c}$	210.7	%
Declared cooling capacity for part load at given outdoor temperature T_j				Declared energy efficiency ratio for part load at given outdoor temperature T_j			
$T_j=+35^\circ\text{C}$	P_{dc}	6.35	kW	$T_j=+35^\circ\text{C}$	EER_d	2.93	-
$T_j=+30^\circ\text{C}$	P_{dc}	4.76	kW	$T_j=+30^\circ\text{C}$	EER_d	4.53	-
$T_j=+25^\circ\text{C}$	P_{dc}	3.02	kW	$T_j=+25^\circ\text{C}$	EER_d	6.32	-
$T_j=+20^\circ\text{C}$	P_{dc}	1.39	kW	$T_j=+20^\circ\text{C}$	EER_d	7.20	-
Degradation co-efficient for chillers (*)	C_{dc}	0.9	-				
Power consumption in modes other than "active mode"							
Off mode	P_{OFF}	0.014	kW	Crankcase heater mode	P_{CK}	0.000	kW
Thermosat-off mode	P_{TO}	0.010	kW	Standby mode	P_{SB}	0.014	kW
Other items							
Capacity control	variable			For air-to-water comfort chillers: air flow rate, outdoor measured	-	2770	m ³ /h
Sound power level, indoors / outdoors	L_{WA}	38/58	dB				
Emissions of nitrogen oxides (if applicable)	$NO_x(**)$	-	mg/kWh input GCV	For water / brine-to-water chillers: Rated brine or water flow rate, outdoor side heat exchanger	-	-	m ³ /h
GWP of the refrigerant	-	675	kg CO ₂ eq (100years)				
Standard rating conditions used	Low temperature application						
Contact details	Eurofred, S.A. CL. Marques de Sentmenat, 97 08029 Barcelona						
(*) If C_{dc} is not determined by measurement then the default degradation coefficient of chillers shall be 0,9. (**) From 26 September 2018.							

Information requirements for comfort chillers

Model(s):				Outdoor unit: AOWD SPACE II 60 Indoor unit: AIWD URBAN II 100			
Outdoor side heat exchanger of chiller:				Air to water			
Indoor side heat exchanger chiller:				Water			
Type:				Compressor driven vapour compression			
Driver of compressor:				Electric motor			
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated cooling capacity	$P_{rated,c}$	6.5	kW	Seasonal space cooling energy efficiency	$\eta_{s,c}$	325.2	%
Declared cooling capacity for part load at given outdoor temperature T_j				Declared energy efficiency ratio for part load at given outdoor temperature T_j			
$T_j=+35^\circ\text{C}$	P_{dc}	6.55	kW	$T_j=+35^\circ\text{C}$	EER_d	4.69	-
$T_j=+30^\circ\text{C}$	P_{dc}	4.84	kW	$T_j=+30^\circ\text{C}$	EER_d	7.16	-
$T_j=+25^\circ\text{C}$	P_{dc}	3.26	kW	$T_j=+25^\circ\text{C}$	EER_d	9.64	-
$T_j=+20^\circ\text{C}$	P_{dc}	1.41	kW	$T_j=+20^\circ\text{C}$	EER_d	11.48	-
Degradation co-efficient for chillers (*)	C_{dc}	0.9	-				
Power consumption in modes other than "active mode"							
Off mode	P_{OFF}	0.014	kW	Crankcase heater mode	P_{CK}	0.000	kW
Thermosat-off mode	P_{TO}	0.010	kW	Standby mode	P_{SB}	0.014	kW
Other items							
Capacity control	variable			For air-to-water comfort chillers: air flow rate, outdoor measured	-	2770	m ³ /h
Sound power level, indoors / outdoors	L_{WA}	38/58	dB				
Emissions of nitrogen oxides (if applicable)	$NO_x(**)$	-	mg/kWh input GCV	For water / brine-to-water chillers: Rated brine or water flow rate, outdoor side heat exchanger	-	-	m ³ /h
GWP of the refrigerant	-	675	kg CO ₂ eq (100years)				
Standard rating conditions used	Medium temperature application						
Contact details	Eurofred, S.A. CL. Marques de Sentmenat, 97 08029 Barcelona						
(*) If C_{dc} is not determined by measurement then the default degradation coefficient of chillers shall be 0,9. (**) From 26 September 2018.							

Information requirements for comfort chillers

Model(s):	Outdoor unit: AOWD SPACE II 80 Indoor unit: AIWD URBAN II 100						
Outdoor side heat exchanger of chiller:	Air to water						
Indoor side heat exchanger chiller:	Water						
Type:	Compressor driven vapour compression						
Driver of compressor:	Electric motor						
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated cooling capacity	$P_{rated,c}$	7.4	kW	Seasonal space cooling energy efficiency	$\eta_{s,c}$	230.1	%
Declared cooling capacity for part load at given outdoor temperature T_j				Declared energy efficiency ratio for part load at given outdoor temperature T_j			
$T_j=+35^\circ\text{C}$	P_{dc}	7.38	kW	$T_j=+35^\circ\text{C}$	EER_d	3.39	-
$T_j=+30^\circ\text{C}$	P_{dc}	5.72	kW	$T_j=+30^\circ\text{C}$	EER_d	4.71	-
$T_j=+25^\circ\text{C}$	P_{dc}	3.62	kW	$T_j=+25^\circ\text{C}$	EER_d	6.65	-
$T_j=+20^\circ\text{C}$	P_{dc}	1.64	kW	$T_j=+20^\circ\text{C}$	EER_d	8.55	-
Degradation co-efficient for chillers (*)	C_{dc}	0.9	-				
Power consumption in modes other than "active mode"							
Off mode	P_{OFF}	0.014	kW	Crankcase heater mode	P_{CK}	0.000	kW
Thermosat-off mode	P_{TO}	0.010	kW	Standby mode	P_{SB}	0.014	kW
Other items							
Capacity control	variable			For air-to-water comfort chillers: air flow rate, outdoor measured	-	4030	m^3/h
Sound power level, indoors / outdoors	L_{WA}	42/60	dB				
Emissions of nitrogen oxides (if applicable)	$\text{NO}_x (**)$	-	mg/kWh input GCV	For water / brine-to-water chillers: Rated brine or water flow rate, outdoor side heat exchanger	-	-	m^3/h
GWP of the refrigerant	-	675	kg CO_2 eq (100years)				
Standard rating conditions used	Low temperature application						
Contact details	Eurofred, S.A. CL. Marques de Sentmenat, 97 08029 Barcelona						
(*) If C_{dc} is not determined by measurement then the default degradation coefficient of chillers shall be 0,9. (**) From 26 September 2018.							

Information requirements for comfort chillers

Model(s):				Outdoor unit: AOWD SPACE II 80 Indoor unit: AIWD URBAN II 100			
Outdoor side heat exchanger of chiller:				Air to water			
Indoor side heat exchanger chiller:				Water			
Type:				Compressor driven vapour compression			
Driver of compressor:				Electric motor			
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated cooling capacity	$P_{rated,c}$	8.4	kW	Seasonal space cooling energy efficiency	$\eta_{s,c}$	355.1	%
Declared cooling capacity for part load at given outdoor temperature T_j				Declared energy efficiency ratio for part load at given outdoor temperature T_j			
$T_j=+35^\circ\text{C}$	P_{dc}	8.37	kW	$T_j=+35^\circ\text{C}$	EER_d	5.09	-
$T_j=+30^\circ\text{C}$	P_{dc}	6.47	kW	$T_j=+30^\circ\text{C}$	EER_d	7.02	-
$T_j=+25^\circ\text{C}$	P_{dc}	4.31	kW	$T_j=+25^\circ\text{C}$	EER_d	10.67	-
$T_j=+20^\circ\text{C}$	P_{dc}	1.80	kW	$T_j=+20^\circ\text{C}$	EER_d	13.61	-
Degradation co-efficient for chillers (*)	C_{dc}	0.9	-				
Power consumption in modes other than "active mode"							
Off mode	P_{OFF}	0.014	kW	Crankcase heater mode	P_{CK}	0.000	kW
Thermosat-off mode	P_{TO}	0.010	kW	Standby mode	P_{SB}	0.014	kW
Other items							
Capacity control	variable			For air-to-water comfort chillers: air flow rate, outdoor measured	-	4030	m^3/h
Sound power level, indoors / outdoors	L_{WA}	42/60	dB				
Emissions of nitrogen oxides (if applicable)	$\text{NO}_x(**)$	-	mg/kWh input GCV	For water / brine-to-water chillers: Rated brine or water flow rate, outdoor side heat exchanger	-	-	m^3/h
GWP of the refrigerant	-	675	kg CO_2 eq (100years)				
Standard rating conditions used	Medium temperature application						
Contact details	Eurofred, S.A. CL. Marques de Sentmenat, 97 08029 Barcelona						
(*) If C_{dc} is not determined by measurement then the default degradation coefficient of chillers shall be 0,9. (**) From 26 September 2018.							

Information requirements for comfort chillers

Model(s):				Outdoor unit: AOWD SPACE II 100 Indoor unit: AIWD URBAN II 100			
Outdoor side heat exchanger of chiller:				Air to water			
Indoor side heat exchanger chiller:				Water			
Type:				Compressor driven vapour compression			
Driver of compressor:				Electric motor			
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated cooling capacity	$P_{rated,c}$	8.7	kW	Seasonal space cooling energy efficiency	$\eta_{s,c}$	236.2	%
Declared cooling capacity for part load at given outdoor temperature T_j				Declared energy efficiency ratio for part load at given outdoor temperature T_j			
$T_j=+35^{\circ}\text{C}$	P_{dc}	8.73	kW	$T_j=+35^{\circ}\text{C}$	EER_d	3.21	-
$T_j=+30^{\circ}\text{C}$	P_{dc}	6.68	kW	$T_j=+30^{\circ}\text{C}$	EER_d	4.47	-
$T_j=+25^{\circ}\text{C}$	P_{dc}	4.26	kW	$T_j=+25^{\circ}\text{C}$	EER_d	7.02	-
$T_j=+20^{\circ}\text{C}$	P_{dc}	1.94	kW	$T_j=+20^{\circ}\text{C}$	EER_d	9.54	-
Degradation co-efficient for chillers (*)	C_{dc}	0.9	-				
Power consumption in modes other than "active mode"							
Off mode	P_{OFF}	0.014	kW	Crankcase heater mode	P_{CK}	0.000	kW
Thermosat-off mode	P_{TO}	0.010	kW	Standby mode	P_{SB}	0.014	kW
Other items							
Capacity control	variable			For air-to-water comfort chillers: air flow rate, outdoor measured	-	4030	m^3/h
Sound power level, indoors / outdoors	L_{WA}	42/61	dB				
Emissions of nitrogen oxides (if applicable)	$\text{NO}_x(**)$	-	mg/kWh input GCV	For water / brine-to-water chillers: Rated brine or water flow rate, outdoor side heat exchanger	-	-	m^3/h
GWP of the refrigerant	-	675	kg CO_2 eq (100years)				
Standard rating conditions used	Low temperature application						
Contact details	Eurofred, S.A. CL. Marques de Sentmenat, 97 08029 Barcelona						
(*) If C_{dc} is not determined by measurement then the default degradation coefficient of chillers shall be 0,9. (**) From 26 September 2018.							

Information requirements for comfort chillers

Model(s):				Outdoor unit: AOWD SPACE II 100 Indoor unit: AIWD URBAN II 100			
Outdoor side heat exchanger of chiller:				Air to water			
Indoor side heat exchanger chiller:				Water			
Type:				Compressor driven vapour compression			
Driver of compressor:				Electric motor			
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated cooling capacity	$P_{\text{rated,c}}$	10.0	kW	Seasonal space cooling energy efficiency	$\eta_{\text{s,c}}$	348.1	%
Declared cooling capacity for part load at given outdoor temperature T_j				Declared energy efficiency ratio for part load at given outdoor temperature T_j			
$T_j=+35^\circ\text{C}$	P_{dc}	10.01	kW	$T_j=+35^\circ\text{C}$	EER_d	4.64	-
$T_j=+30^\circ\text{C}$	P_{dc}	7.71	kW	$T_j=+30^\circ\text{C}$	EER_d	6.45	-
$T_j=+25^\circ\text{C}$	P_{dc}	5.03	kW	$T_j=+25^\circ\text{C}$	EER_d	10.36	-
$T_j=+20^\circ\text{C}$	P_{dc}	2.32	kW	$T_j=+20^\circ\text{C}$	EER_d	14.98	-
Degradation coefficient for chillers (*)	C_{dc}	0.9	-				
Power consumption in modes other than "active mode"							
Off mode	P_{OFF}	0.014	kW	Crankcase heater mode	P_{CK}	0.000	kW
Thermosat-off mode	P_{TO}	0.010	kW	Standby mode	P_{SB}	0.014	kW
Other items							
Capacity control	variable			For air-to-water comfort chillers: air flow rate, outdoor measured	-	4030	m^3/h
Sound power level, indoors / outdoors	L_{WA}	42/60	dB				
Emissions of nitrogen oxides (if applicable)	NO_x (**)	-	mg/kWh input GCV	For water / brine-to-water chillers: Rated brine or water flow rate, outdoor side heat exchanger	-	-	m^3/h
GWP of the refrigerant	-	675	kg CO_2 eq (100years)				
Standard rating conditions used	Medium temperature application						
Contact details	Eurofred, S.A. CL. Marques de Sentmenat, 97 08029 Barcelona						
(*) If C_{dc} is not determined by measurement then the default degradation coefficient of chillers shall be 0,9. (**) From 26 September 2018.							

Information requirements for comfort chillers

Model(s):				Outdoor unit: AOWD SPACE II 120 Indoor unit: AIWD URBAN II 160			
Outdoor side heat exchanger of chiller:				Air to water			
Indoor side heat exchanger chiller:				Water			
Type:				Compressor driven vapour compression			
Driver of compressor:				Electric motor			
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated cooling capacity	$P_{rated,c}$	11.3	kW	Seasonal space cooling energy efficiency	$\eta_{s,c}$	192.4	%
Declared cooling capacity for part load at given outdoor temperature T_j				Declared energy efficiency ratio for part load at given outdoor temperature T_j			
$T_j=+35^\circ\text{C}$	P_{dc}	11.31	kW	$T_j=+35^\circ\text{C}$	EER _d	2.61	-
$T_j=+30^\circ\text{C}$	P_{dc}	8.76	kW	$T_j=+30^\circ\text{C}$	EER _d	3.93	-
$T_j=+25^\circ\text{C}$	P_{dc}	5.81	kW	$T_j=+25^\circ\text{C}$	EER _d	5.73	-
$T_j=+20^\circ\text{C}$	P_{dc}	2.63	kW	$T_j=+20^\circ\text{C}$	EER _d	6.75	-
Degradation co-efficient for chillers (*)	C_{dc}	0.9	-				
Power consumption in modes other than "active mode"							
Off mode	P_{OFF}	0.014	kW	Crankcase heater mode	P_{CK}	0.000	kW
Thermosat-off mode	P_{TO}	0.010	kW	Standby mode	P_{SB}	0.014	kW
Other items							
Capacity control	variable			For air-to-water comfort chillers: air flow rate, outdoor measured	-	4060	m ³ /h
Sound power level, indoors / outdoors	L_{WA}	43/65	dB				
Emissions of nitrogen oxides (if applicable)	$NO_x(**)$	-	mg/kWh input GCV	For water / brine-to-water chillers: Rated brine or water flow rate, outdoor side heat exchanger	-	-	m ³ /h
GWP of the refrigerant	-	675	kg CO ₂ eq (100years)				
Standard rating conditions used	Low temperature application						
Contact details	Eurofred, S.A. CL. Marques de Sentmenat, 97 08029 Barcelona						
(*) If C_{dc} is not determined by measurement then the default degradation coefficient of chillers shall be 0,9. (**) From 26 September 2018.							

Information requirements for comfort chillers

Model(s):	Outdoor unit: AOWD SPACE II 120 Indoor unit: AIWD URBAN II 160						
Outdoor side heat exchanger of chiller:	Air to water						
Indoor side heat exchanger chiller:	Water						
Type:	Compressor driven vapour compression						
Driver of compressor:	Electric motor						
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated cooling capacity	$P_{rated,c}$	11.8	kW	Seasonal space cooling energy efficiency	$\eta_{s,c}$	280.9	%
Declared cooling capacity for part load at given outdoor temperature T_j				Declared energy efficiency ratio for part load at given outdoor temperature T_j			
$T_j=+35^\circ\text{C}$	P_{dc}	11.77	kW	$T_j=+35^\circ\text{C}$	EER _d	3.87	-
$T_j=+30^\circ\text{C}$	P_{dc}	9.21	kW	$T_j=+30^\circ\text{C}$	EER _d	5.50	-
$T_j=+25^\circ\text{C}$	P_{dc}	5.74	kW	$T_j=+25^\circ\text{C}$	EER _d	8.66	-
$T_j=+20^\circ\text{C}$	P_{dc}	3.33	kW	$T_j=+20^\circ\text{C}$	EER _d	10.07	-
Degradation co-efficient for chillers (*)	C_{dc}	0.9	-				
Power consumption in modes other than "active mode"							
Off mode	P_{OFF}	0.014	kW	Crankcase heater mode	P_{CK}	0.000	kW
Thermosat-off mode	P_{TO}	0.010	kW	Standby mode	P_{SB}	0.014	kW
Other items							
Capacity control	variable			For air-to-water comfort chillers: air flow rate, outdoor measured	-	4060	m ³ /h
Sound power level, indoors / outdoors	L_{WA}	43/64	dB				
Emissions of nitrogen oxides (if applicable)	$NO_x(**)$	-	mg/kWh input GCV	For water / brine-to-water chillers: Rated brine or water flow rate, outdoor side heat exchanger	-	-	m ³ /h
GWP of the refrigerant	-	675	kg CO ₂ eq (100years)				
Standard rating conditions used	Medium temperature application						
Contact details	Eurofred, S.A. CL. Marques de Sentmenat, 97 08029 Barcelona						
(*) If C_{dc} is not determined by measurement then the default degradation coefficient of chillers shall be 0,9. (**) From 26 September 2018.							

Information requirements for comfort chillers

Model(s):	Outdoor unit: AOWD SPACE II 140 Indoor unit: AIWD URBAN II 160						
Outdoor side heat exchanger of chiller:	Air to water						
Indoor side heat exchanger chiller:	Water						
Type:	Compressor driven vapour compression						
Driver of compressor:	Electric motor						
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated cooling capacity	$P_{rated,c}$	12.2	kW	Seasonal space cooling energy efficiency	$\eta_{s,c}$	191.4	%
Declared cooling capacity for part load at given outdoor temperature T_j				Declared energy efficiency ratio for part load at given outdoor temperature T_j			
$T_j=+35^\circ\text{C}$	P_{dc}	12.19	kW	$T_j=+35^\circ\text{C}$	EER _d	2.46	-
$T_j=+30^\circ\text{C}$	P_{dc}	9.41	kW	$T_j=+30^\circ\text{C}$	EER _d	3.85	-
$T_j=+25^\circ\text{C}$	P_{dc}	6.16	kW	$T_j=+25^\circ\text{C}$	EER _d	5.80	-
$T_j=+20^\circ\text{C}$	P_{dc}	2.63	kW	$T_j=+20^\circ\text{C}$	EER _d	6.74	-
Degradation co-efficient for chillers (*)	C_{dc}	0.9	-				
Power consumption in modes other than "active mode"							
Off mode	P_{OFF}	0.014	kW	Crankcase heater mode	P_{CK}	0.000	kW
Thermosat-off mode	P_{TO}	0.010	kW	Standby mode	P_{SB}	0.014	kW
Other items							
Capacity control	variable			For air-to-water comfort chillers: air flow rate, outdoor measured	-	4060	m ³ /h
Sound power level, indoors /outdoors	LWA	44/65	dB				
Emissions of nitrogen oxides (if applicable)	NO _x (**)	-	mg/kWh input GCV	For water /brine-to-water chillers: Rated brine or water flow rate, outdoor side heat exchanger	-	-	m ³ /h
GWP of the refrigerant	-	675	kg CO ₂ eq (100years)				
Standard rating conditions used	Low temperature application						
Contact details	Eurofred, S.A. CL. Marques de Sentmenat, 97 08029 Barcelona						
(*) If C_{dc} is not determined by measurement then the default degradation coefficient of chillers shall be 0,9. (**) From 26 September 2018.							

Information requirements for comfort chillers

Model(s):		Outdoor unit: AOWD SPACE II 140 Indoor unit: AIWD URBAN II 160					
Outdoor side heat exchanger of chiller:		Air to water					
Indoor side heat exchanger chiller:		Water					
Type:		Compressor driven vapour compression					
Driver of compressor:		Electric motor					
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated cooling capacity	$P_{rated,c}$	13.3	kW	Seasonal space cooling energy efficiency	$\eta_{s,c}$	272.8	%
Declared cooling capacity for part load at given outdoor temperature T_j				Declared energy efficiency ratio for part load at given outdoor temperature T_j			
$T_j=+35^\circ\text{C}$	P_{dc}	13.30	kW	$T_j=+35^\circ\text{C}$	EER _d	3.47	-
$T_j=+30^\circ\text{C}$	P_{dc}	10.20	kW	$T_j=+30^\circ\text{C}$	EER _d	5.26	-
$T_j=+25^\circ\text{C}$	P_{dc}	6.57	kW	$T_j=+25^\circ\text{C}$	EER _d	8.45	-
$T_j=+20^\circ\text{C}$	P_{dc}	3.33	kW	$T_j=+20^\circ\text{C}$	EER _d	10.07	-
Degradation co-efficient for chillers (*)	C_{dc}	0.9	-				
Power consumption in modes other than "active mode"							
Off mode	P_{OFF}	0.014	kW	Crankcase heater mode	P_{CK}	0.000	kW
Thermosat-off mode	P_{TO}	0.010	kW	Standby mode	P_{SB}	0.014	kW
Other items							
Capacity control	variable			For air-to-water comfort chillers: air flow rate, outdoor measured	-	4060	m ³ /h
Sound power level, indoors / outdoors	L_{WA}	44/64	dB				
Emissions of nitrogen oxides (if applicable)	$NO_x (**)$	-	mg/kWh input GCV	For water /brine-to-water chillers: Rated brine or water flow rate, outdoor side heat exchanger	-	-	m ³ /h
GWP of the refrigerant	-	675	kg CO ₂ eq (100years)				
Standard rating conditions used	Medium temperature application						
Contact details	Eurofred, S.A. CL. Marques de Sentmenat, 97 08029 Barcelona						
(*) If C_{dc} is not determined by measurement then the default degradation coefficient of chillers shall be 0,9. (**) From 26 September 2018.							

Information requirements for comfort chillers

Model(s):	Outdoor unit: AOWD SPACE II 160 Indoor unit: AIWD URBAN II 160						
Outdoor side heat exchanger of chiller:	Air to water						
Indoor side heat exchanger chiller:	Water						
Type:	Compressor driven vapour compression						
Driver of compressor:	Electric motor						
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated cooling capacity	$P_{rated,c}$	14.3	kW	Seasonal space cooling energy efficiency	$\eta_{s,c}$	184.4	%
Declared cooling capacity for part load at given outdoor temperature T_j				Declared energy efficiency ratio for part load at given outdoor temperature T_j			
$T_j=+35^\circ\text{C}$	P_{dc}	14.31	kW	$T_j=+35^\circ\text{C}$	EER _d	2.47	-
$T_j=+30^\circ\text{C}$	P_{dc}	10.68	kW	$T_j=+30^\circ\text{C}$	EER _d	3.63	-
$T_j=+25^\circ\text{C}$	P_{dc}	6.76	kW	$T_j=+25^\circ\text{C}$	EER _d	5.27	-
$T_j=+20^\circ\text{C}$	P_{dc}	3.41	kW	$T_j=+20^\circ\text{C}$	EER _d	7.29	-
Degradation co-efficient for chillers (*)	C_{dc}	0.9	-				
Power consumption in modes other than "active mode"							
Off mode	P_{OFF}	0.014	kW	Crankcase heater mode	P_{CK}	0.000	kW
Thermosat-off mode	P_{TO}	0.010	kW	Standby mode	P_{SB}	0.014	kW
Other items							
Capacity control	variable			For air-to-water comfort chillers: air flow rate, outdoor measured	-	4650	m ³ /h
Sound power level, indoors /outdoors	LWA	44/68	dB				
Emissions of nitrogen oxides (if applicable)	NO _x (**)	-	mg/kWh input GCV	For water /brine-to-water chillers:Rated brine or water flow rate, outdoor side heat exchanger	-	-	m ³ /h
GWP of the refrigerant	-	675	kg CO ₂ eq (100years)				
Standard rating conditions used	Low temperature application						
Contact details	Eurofred, S.A. CL. Marques de Sentmenat, 97 08029 Barcelona						
(*) If C_{dc} is not determined by measurement then the default degradation coefficient of chillers shall be 0,9. (**) From 26 September 2018.							

Information requirements for comfort chillers

Model(s):				Outdoor unit: AOWD SPACE II 160 Indoor unit: AIWD URBAN II 160			
Outdoor side heat exchanger of chiller:				Air to water			
Indoor side heat exchanger chiller:				Water			
Type:				Compressor driven vapour compression			
Driver of compressor:				Electric motor			
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated cooling capacity	$P_{\text{rated,c}}$	15.4	kW	Seasonal space cooling energy efficiency	$\eta_{\text{s,c}}$	266.9	%
Declared cooling capacity for part load at given outdoor temperature T_j				Declared energy efficiency ratio for part load at given outdoor temperature T_j			
$T_j=+35^\circ\text{C}$	P_{dc}	15.40	kW	$T_j=+35^\circ\text{C}$	EER_d	3.50	-
$T_j=+30^\circ\text{C}$	P_{dc}	11.42	kW	$T_j=+30^\circ\text{C}$	EER_d	5.14	-
$T_j=+25^\circ\text{C}$	P_{dc}	7.27	kW	$T_j=+25^\circ\text{C}$	EER_d	7.83	-
$T_j=+20^\circ\text{C}$	P_{dc}	3.40	kW	$T_j=+20^\circ\text{C}$	EER_d	10.35	-
Degradation co-efficient for chillers (*)	C_{dc}	0.9	-				
Power consumption in modes other than "active mode"							
Off mode	P_{OFF}	0.014	kW	Crankcase heater mode	P_{CK}	0.000	kW
Thermosat-off mode	P_{TO}	0.010	kW	Standby mode	P_{SB}	0.014	kW
Other items							
Capacity control	variable			For air-to-water comfort chillers: air flow rate, outdoor measured	-	4650	m^3/h
Sound power level, indoors / outdoors	L_{WA}	44/67	dB				
Emissions of nitrogen oxides (if applicable)	$\text{NO}_x(**)$	-	mg/kWh input GCV	For water / brine-to-water chillers: Rated brine or water flow rate, outdoor side heat exchanger	-	-	m^3/h
GWP of the refrigerant	-	675	kg CO_2 eq (100years)				
Standard rating conditions used	Medium temperature application						
Contact details	Eurofred, S.A. CL. Marques de Sentmenat, 97 08029 Barcelona						
(*) If C_{dc} is not determined by measurement then the default degradation coefficient of chillers shall be 0,9. (**) From 26 September 2018.							

Information requirements for comfort chillers

Model(s):	Outdoor unit: AOWD SPACE II 120T Indoor unit: AIWD URBAN II 160						
Outdoor side heat exchanger of chiller:	Air to water						
Indoor side heat exchanger chiller:	Water						
Type:	Compressor driven vapour compression						
Driver of compressor:	Electric motor						
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated cooling capacity	$P_{rated,c}$	11.3	kW	Seasonal space cooling energy efficiency	$\eta_{s,c}$	191.2	%
Declared cooling capacity for part load at given outdoor temperature T_j				Declared energy efficiency ratio for part load at given outdoor temperature T_j			
$T_j=+35^\circ\text{C}$	P_{dc}	11.31	kW	$T_j=+35^\circ\text{C}$	EER _d	2.61	-
$T_j=+30^\circ\text{C}$	P_{dc}	8.76	kW	$T_j=+30^\circ\text{C}$	EER _d	3.93	-
$T_j=+25^\circ\text{C}$	P_{dc}	5.81	kW	$T_j=+25^\circ\text{C}$	EER _d	5.73	-
$T_j=+20^\circ\text{C}$	P_{dc}	2.63	kW	$T_j=+20^\circ\text{C}$	EER _d	6.75	-
Degradation co-efficient for chillers (*)	C_{dc}	0.9	-				
Power consumption in modes other than "active mode"							
Off mode	P_{OFF}	0.020	kW	Crankcase heater mode	P_{CK}	0.000	kW
Thermosat-off mode	P_{TO}	0.010	kW	Standby mode	P_{SB}	0.020	kW
Other items							
Capacity control	variable			For air-to-water comfort chillers: air flow rate, outdoor measured	-	4060	m ³ /h
Sound power level, indoors /outdoors	LWA	43/65	dB				
Emissions of nitrogen oxides (if applicable)	NO _x (**)	-	mg/kWh input GCV	For water /brine-to-water chillers:Rated brine or water flow rate, outdoor side heat exchanger	-	-	m ³ /h
GWP of the refrigerant	-	675	kg CO ₂ eq (100years)				
Standard rating conditions used	Low temperature application						
Contact details	Eurofred, S.A. CL. Marques de Sentmenat, 97 08029 Barcelona						
(*) If C_{dc} is not determined by measurement then the default degradation coefficient of chillers shall be 0,9. (**) From 26 September 2018.							

Information requirements for comfort chillers

Model(s):				Outdoor unit: AOWD SPACE II 120T Indoor unit: AIWD URBAN II 160			
Outdoor side heat exchanger of chiller:				Air to water			
Indoor side heat exchanger chiller:				Water			
Type:				Compressor driven vapour compression			
Driver of compressor:				Electric motor			
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated cooling capacity	$P_{rated,c}$	11.8	kW	Seasonal space cooling energy efficiency	$\eta_{s,c}$	278.6	%
Declared cooling capacity for part load at given outdoor temperature T_j				Declared energy efficiency ratio for part load at given outdoor temperature T_j			
$T_j=+35^\circ\text{C}$	P_{dc}	11.77	kW	$T_j=+35^\circ\text{C}$	EER_d	3.87	-
$T_j=+30^\circ\text{C}$	P_{dc}	9.21	kW	$T_j=+30^\circ\text{C}$	EER_d	5.50	-
$T_j=+25^\circ\text{C}$	P_{dc}	5.74	kW	$T_j=+25^\circ\text{C}$	EER_d	8.66	-
$T_j=+20^\circ\text{C}$	P_{dc}	3.33	kW	$T_j=+20^\circ\text{C}$	EER_d	10.07	-
Degradation co-efficient for chillers (*)	C_{dc}	0.9	-				
Power consumption in modes other than "active mode"							
Off mode	P_{OFF}	0.020	kW	Crankcase heater mode	P_{CK}	0.000	kW
Thermosat-off mode	P_{TO}	0.010	kW	Standby mode	P_{SB}	0.020	kW
Other items							
Capacity control	variable			For air-to-water comfort chillers: air flow rate, outdoor measured	-	4060	m ³ /h
Sound power level, indoors / outdoors	L_{WA}	43/64	dB				
Emissions of nitrogen oxides (if applicable)	$NO_x(**)$	-	mg/kWh input GCV	For water / brine-to-water chillers: Rated brine or water flow rate, outdoor side heat exchanger	-	-	m ³ /h
GWP of the refrigerant	-	675	kg CO ₂ eq (100years)				
Standard rating conditions used	Medium temperature application						
Contact details	Eurofred, S.A. CL. Marques de Sentmenat, 97 08029 Barcelona						
(*) If C_{dc} is not determined by measurement then the default degradation coefficient of chillers shall be 0,9. (**) From 26 September 2018.							

Information requirements for comfort chillers

Model(s):	Outdoor unit: AOWD SPACE II 140T Indoor unit: AIWD URBAN II 160						
Outdoor side heat exchanger of chiller:	Air to water						
Indoor side heat exchanger chiller:	Water						
Type:	Compressor driven vapour compression						
Driver of compressor:	Electric motor						
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated cooling capacity	$P_{rated,c}$	12.2	kW	Seasonal space cooling energy efficiency	$\eta_{s,c}$	190.3	%
Declared cooling capacity for part load at given outdoor temperature T_j				Declared energy efficiency ratio for part load at given outdoor temperature T_j			
$T_j=+35^{\circ}\text{C}$	P_{dc}	12.19	kW	$T_j=+35^{\circ}\text{C}$	EER_d	2.46	-
$T_j=+30^{\circ}\text{C}$	P_{dc}	9.41	kW	$T_j=+30^{\circ}\text{C}$	EER_d	3.85	-
$T_j=+25^{\circ}\text{C}$	P_{dc}	6.16	kW	$T_j=+25^{\circ}\text{C}$	EER_d	5.80	-
$T_j=+20^{\circ}\text{C}$	P_{dc}	2.63	kW	$T_j=+20^{\circ}\text{C}$	EER_d	6.74	-
Degradation coefficient for chillers (*)	C_{dc}	0.9	-				
Power consumption in modes other than "active mode"							
Off mode	P_{OFF}	0.020	kW	Crankcase heater mode	P_{CK}	0.000	kW
Thermosat-off mode	P_{TO}	0.010	kW	Standby mode	P_{SB}	0.020	kW
Other items							
Capacity control	variable			For air-to-water comfort chillers: air flow rate, outdoor measured	-	4060	m^3/h
Sound power level, indoors / outdoors	L_{WA}	44/65	dB				
Emissions of nitrogen oxides (if applicable)	NO_x (**)	-	mg/kWh input GCV	For water / brine-to-water chillers: Rated brine or water flow rate, outdoor side heat exchanger	-	-	m^3/h
GWP of the refrigerant	-	675	kg CO_2 eq (100years)				
Standard rating conditions used	Low temperature application						
Contact details	Eurofred, S.A. CL. Marques de Sentmenat, 97 08029 Barcelona						
(*) If C_{dc} is not determined by measurement then the default degradation coefficient of chillers shall be 0,9. (**) From 26 September 2018.							

Information requirements for comfort chillers

Model(s):				Outdoor unit: AOWD SPACE II 140T Indoor unit: AIWD URBAN II 160			
Outdoor side heat exchanger of chiller:				Air to water			
Indoor side heat exchanger chiller:				Water			
Type:				Compressor driven vapour compression			
Driver of compressor:				Electric motor			
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated cooling capacity	$P_{rated,c}$	13.3	kW	Seasonal space cooling energy efficiency	$\eta_{s,c}$	270.9	%
Declared cooling capacity for part load at given outdoor temperature T_j				Declared energy efficiency ratio for part load at given outdoor temperature T_j			
$T_j=+35^\circ\text{C}$	P_{dc}	13.30	kW	$T_j=+35^\circ\text{C}$	EER _d	3.47	-
$T_j=+30^\circ\text{C}$	P_{dc}	10.20	kW	$T_j=+30^\circ\text{C}$	EER _d	5.26	-
$T_j=+25^\circ\text{C}$	P_{dc}	6.57	kW	$T_j=+25^\circ\text{C}$	EER _d	8.45	-
$T_j=+20^\circ\text{C}$	P_{dc}	3.33	kW	$T_j=+20^\circ\text{C}$	EER _d	10.07	-
Degradation co-efficient for chillers (*)	C_{dc}	0.9	-				
Power consumption in modes other than "active mode"							
Off mode	P_{OFF}	0.020	kW	Crankcase heater mode	P_{CK}	0.000	kW
Thermosat-off mode	P_{TO}	0.010	kW	Standby mode	P_{SB}	0.020	kW
Other items							
Capacity control	variable			For air-to-water comfort chillers: air flow rate, outdoor measured	-	4060	m ³ /h
Sound power level, indoors / outdoors	L_{WA}	44/64	dB				
Emissions of nitrogen oxides (if applicable)	$NO_x(**)$	-	mg/kWh input GCV	For water / brine-to-water chillers: Rated brine or water flow rate, outdoor side heat exchanger	-	-	m ³ /h
GWP of the refrigerant	-	675	kg CO ₂ eq (100years)				
Standard rating conditions used	Medium temperature application						
Contact details	Eurofred, S.A. CL. Marques de Sentmenat, 97 08029 Barcelona						
(*) If C_{dc} is not determined by measurement then the default degradation coefficient of chillers shall be 0,9. (**) From 26 September 2018.							

Information requirements for comfort chillers

Model(s):	Outdoor unit: AOWD SPACE II 160T Indoor unit: AIWD URBAN II 160						
Outdoor side heat exchanger of chiller:	Air to water						
Indoor side heat exchanger chiller:	Water						
Type:	Compressor driven vapour compression						
Driver of compressor:	Electric motor						
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated cooling capacity	$P_{rated,c}$	14.3	kW	Seasonal space cooling energy efficiency	$\eta_{s,c}$	183.6	%
Declared cooling capacity for part load at given outdoor temperature T_j				Declared energy efficiency ratio for part load at given outdoor temperature T_j			
$T_j=+35^\circ\text{C}$	P_{dc}	14.31	kW	$T_j=+35^\circ\text{C}$	EER _d	2.47	-
$T_j=+30^\circ\text{C}$	P_{dc}	10.68	kW	$T_j=+30^\circ\text{C}$	EER _d	3.63	-
$T_j=+25^\circ\text{C}$	P_{dc}	6.76	kW	$T_j=+25^\circ\text{C}$	EER _d	5.27	-
$T_j=+20^\circ\text{C}$	P_{dc}	3.41	kW	$T_j=+20^\circ\text{C}$	EER _d	7.29	-
Degradation co-efficient for chillers (*)	C_{dc}	0.9	-				
Power consumption in modes other than "active mode"							
Off mode	P_{OFF}	0.020	kW	Crankcase heater mode	P_{CK}	0.000	kW
Thermosat-off mode	P_{TO}	0.010	kW	Standby mode	P_{SB}	0.020	kW
Other items							
Capacity control	variable			For air-to-water comfort chillers: air flow rate, outdoor measured	-	4650	m ³ /h
Sound power level, indoors / outdoors	L_{WA}	44/68	dB				
Emissions of nitrogen oxides (if applicable)	$NO_x(**)$	-	mg/kWh input GCV	For water / brine-to-water chillers: Rated brine or water flow rate, outdoor side heat exchanger	-	-	m ³ /h
GWP of the refrigerant	-	2088	kg CO ₂ eq (100years)				
Standard rating conditions used	Low temperature application						
Contact details	Eurofred, S.A. CL. Marques de Sentmenat, 97 08029 Barcelona						
(*) If C_{dc} is not determined by measurement then the default degradation coefficient of chillers shall be 0,9. (**) From 26 September 2018.							

Information requirements for comfort chillers

Model(s):				Outdoor unit: AOWD SPACE II 160T Indoor unit: AIWD URBAN II 160			
Outdoor side heat exchanger of chiller:				Air to water			
Indoor side heat exchanger chiller:				Water			
Type:				Compressor driven vapour compression			
Driver of compressor:				Electric motor			
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated cooling capacity	$P_{rated,c}$	15.4	kW	Seasonal space cooling energy efficiency	$\eta_{s,c}$	265.3	%
Declared cooling capacity for part load at given outdoor temperature T_j				Declared energy efficiency ratio for part load at given outdoor temperature T_j			
$T_j=+35^\circ\text{C}$	P_{dc}	15.40	kW	$T_j=+35^\circ\text{C}$	EER _d	3.50	-
$T_j=+30^\circ\text{C}$	P_{dc}	11.42	kW	$T_j=+30^\circ\text{C}$	EER _d	5.14	-
$T_j=+25^\circ\text{C}$	P_{dc}	7.27	kW	$T_j=+25^\circ\text{C}$	EER _d	7.83	-
$T_j=+20^\circ\text{C}$	P_{dc}	3.40	kW	$T_j=+20^\circ\text{C}$	EER _d	10.35	-
Degradation co-efficient for chillers (*)	C_{dc}	0.9	-				
Power consumption in modes other than "active mode"							
Off mode	P_{OFF}	0.020	kW	Crankcase heater mode	P_{CK}	0.000	kW
Thermosat-off mode	P_{TO}	0.010	kW	Standby mode	P_{SB}	0.020	kW
Other items							
Capacity control	variable			For air-to-water comfort chillers: air flow rate, outdoor measured	-	4650	m ³ /h
Sound power level, indoors / outdoors	L_{WA}	44/67	dB				
Emissions of nitrogen oxides (if applicable)	$NO_x(**)$	-	mg/kWh input GCV	For water / brine-to-water chillers: Rated brine or water flow rate, outdoor side heat exchanger	-	-	m ³ /h
GWP of the refrigerant	-	675	kg CO ₂ eq (100years)				
Standard rating conditions used	Medium temperature application						
Contact details	Eurofred, S.A. CL. Marques de Sentmenat, 97 08029 Barcelona						
(*) If C_{dc} is not determined by measurement then the default degradation coefficient of chillers shall be 0,9. (**) From 26 September 2018.							

Condition(°C)	outdoor unit	indoor unit	Capacity (kW)	Power input (kW)	EER/COP (/)
Ambient Temperature: 35/24 Water temperature: 12/7	AOWD SPACE II 40	AIWD URBAN II 100	4.70	1.36	3.45
	AOWD SPACE II 60	AIWD URBAN II 100	7.00	2.33	3.00
	AOWD SPACE II 80	AIWD URBAN II 100	7.40	2.19	3.38
	AOWD SPACE II 100	AIWD URBAN II 100	8.20	2.48	3.30
	AOWD SPACE II 120	AIWD URBAN II 160	11.60	4.22	2.75
	AOWD SPACE II 140	AIWD URBAN II 160	12.70	4.98	2.55
	AOWD SPACE II 160	AIWD URBAN II 160	14.00	5.71	2.45
	AOWD SPACE II 120T	AIWD URBAN II 160	11.60	4.22	2.75
	AOWD SPACE II 140T	AIWD URBAN II 160	12.70	4.98	2.55
AOWD SPACE II 160T	AIWD URBAN II 160	14.00	5.71	2.45	
Ambient Temperature: 35/24 Water temperature: 23/18	AOWD SPACE II 40	AIWD URBAN II 100	4.50	0.81	5.55
	AOWD SPACE II 60	AIWD URBAN II 100	6.55	1.34	4.90
	AOWD SPACE II 80	AIWD URBAN II 100	8.40	1.66	5.05
	AOWD SPACE II 100	AIWD URBAN II 100	10.00	2.08	4.80
	AOWD SPACE II 120	AIWD URBAN II 160	12.00	3.00	4.00
	AOWD SPACE II 140	AIWD URBAN II 160	13.50	3.75	3.60
	AOWD SPACE II 160	AIWD URBAN II 160	14.90	4.38	3.40
	AOWD SPACE II 120T	AIWD URBAN II 160	12.00	3.00	4.00
	AOWD SPACE II 140T	AIWD URBAN II 160	13.50	3.75	3.60
AOWD SPACE II 160T	AIWD URBAN II 160	14.90	4.38	3.40	
Ambient Temperature: 7/6 Water temperature: 30/35	AOWD SPACE II 40	AIWD URBAN II 100	4.25	0.82	5.20
	AOWD SPACE II 60	AIWD URBAN II 100	6.20	1.24	5.00
	AOWD SPACE II 80	AIWD URBAN II 100	8.30	1.60	5.20
	AOWD SPACE II 100	AIWD URBAN II 100	10.00	2.00	5.00
	AOWD SPACE II 120	AIWD URBAN II 160	12.10	2.44	4.95
	AOWD SPACE II 140	AIWD URBAN II 160	14.50	3.09	4.70
	AOWD SPACE II 160	AIWD URBAN II 160	16.00	3.56	4.50
	AOWD SPACE II 120T	AIWD URBAN II 160	12.10	2.44	4.95
	AOWD SPACE II 140T	AIWD URBAN II 160	14.50	3.09	4.70
AOWD SPACE II 160T	AIWD URBAN II 160	16.00	3.56	4.50	
Ambient Temperature: 2/1 Water temperature: 30/35	AOWD SPACE II 40	AIWD URBAN II 100	4.45	1.10	4.05
	AOWD SPACE II 60	AIWD URBAN II 100	5.50	1.39	3.95
	AOWD SPACE II 80	AIWD URBAN II 100	7.10	1.73	4.10
	AOWD SPACE II 100	AIWD URBAN II 100	8.20	2.02	4.05
	AOWD SPACE II 120	AIWD URBAN II 160	9.30	2.35	3.95
	AOWD SPACE II 140	AIWD URBAN II 160	11.40	3.12	3.65
	AOWD SPACE II 160	AIWD URBAN II 160	13.00	3.71	3.50
	AOWD SPACE II 120T	AIWD URBAN II 160	9.30	2.35	3.95
	AOWD SPACE II 140T	AIWD SPACE II 160	11.40	3.12	3.65
AOWD SPACE II 160T	AIWD URBAN II 160	13.00	3.71	3.50	

Condition(°C)	outdoor unit	indoor unit	Capacity (kW)	Power input (kW)	EER/COP (/)
Ambient Temperature: -7/-8 Water temperature: 30/35	AOWD SPACE II 40	AIWD SPACE II 100	4.80	1.52	3.15
	AOWD SPACE II 60	AIWD URBAN II 100	6.10	2.00	3.05
	AOWD SPACE II 80	AIWD URBAN II 100	7.10	2.18	3.25
	AOWD SPACE II 100	AIWD URBAN II 100	8.25	2.62	3.15
	AOWD SPACE II 120	AIWD URBAN II 160	10.00	3.33	3.00
	AOWD SPACE II 140	AIWD URBAN II 160	12.00	4.29	2.80
	AOWD SPACE II 160	AIWD URBAN II 160	13.30	4.93	2.70
	AOWD SPACE II 120T	AIWD URBAN II 160	10.00	3.33	3.00
	AOWD SPACE II 140T	AIWD URBAN II 160	12.00	4.29	2.80
	AOWD SPACE II 160T	AIWD URBAN II 160	13.30	4.93	2.70
Ambient Temperature: 7/6 Water temperature: 40/45	AOWD SPACE II 40	AIWD URBAN II 100	4.35	1.14	3.80
	AOWD SPACE II 60	AIWD URBAN II 100	6.35	1.69	3.75
	AOWD SPACE II 80	AIWD URBAN II 100	8.20	2.08	3.95
	AOWD SPACE II 100	AIWD URBAN II 100	10.00	2.63	3.80
	AOWD SPACE II 120	AIWD URBAN II 160	12.30	3.24	3.80
	AOWD SPACE II 140	AIWD URBAN II 160	14.20	3.89	3.65
	AOWD SPACE II 160	AIWD URBAN II 160	16.00	4.44	3.60
	AOWD SPACE II 120T	AIWD URBAN II 160	12.30	3.24	3.80
	AOWD SPACE II 140T	AIWD URBAN II 160	14.20	3.89	3.65
	AOWD SPACE II 160T	AIWD URBAN II 160	16.00	4.44	3.60
Ambient Temperature: 2/1 Water temperature: 40/45	AOWD SPACE II 40	AIWD URBAN II 100	5.10	1.70	3.00
	AOWD SPACE II 60	AIWD URBAN II 100	5.80	1.93	3.00
	AOWD SPACE II 80	AIWD URBAN II 100	7.40	2.28	3.25
	AOWD SPACE II 100	AIWD URBAN II 100	7.85	2.45	3.20
	AOWD SPACE II 120	AIWD URBAN II 160	10.70	3.57	3.00
	AOWD SPACE II 140	AIWD URBAN II 160	11.70	4.09	2.86
	AOWD SPACE II 160	AIWD URBAN II 160	12.80	4.49	2.85
	AOWD SPACE II 120T	AIWD URBAN II 160	10.70	3.57	3.00
	AOWD SPACE II 140T	AIWD URBAN II 160	11.70	4.09	2.86
	AOWD SPACE II 160T	AIWD URBAN II 160	12.80	4.49	2.85
Ambient Temperature: -7/-8 Water temperature: 40/45	AOWD SPACE II 40	AIWD URBAN II 100	4.30	1.83	2.35
	AOWD SPACE II 60	AIWD URBAN II 100	5.40	2.25	2.40
	AOWD SPACE II 80	AIWD URBAN II 100	6.60	2.59	2.55
	AOWD SPACE II 100	AIWD URBAN II 100	7.35	2.88	2.55
	AOWD SPACE II 120	AIWD URBAN II 160	10.20	4.25	2.40
	AOWD SPACE II 140	AIWD URBAN II 160	11.80	5.02	2.35
	AOWD SPACE II 160	AIWD URBAN II 160	12.90	5.78	2.23
	AOWD SPACE II 120T	AIWD URBAN II 160	10.20	4.25	2.40
	AOWD SPACE II 140T	AIWD URBAN II 160	11.80	5.02	2.35
	AOWD SPACE II 160T	AIWD URBAN II 160	12.90	5.78	2.23

Condition(°C)	outdoor unit	indoor unit	Capacity (kW)	Power input (kW)	EER/COP (/)
Ambient Temperature: 7/6 Water temperature: 47/55	AOWD SPACE II 40	AIWD URBAN II 100	4.40	1.49	2.95
	AOWD SPACE II 60	AIWD URBAN II 100	6.00	2.00	3.00
	AOWD SPACE II 80	AIWD URBAN II 100	7.50	2.36	3.18
	AOWD SPACE II 100	AIWD URBAN II 100	9.50	3.06	3.10
	AOWD SPACE II 120	AIWD URBAN II 160	12.00	3.87	3.10
	AOWD SPACE II 140	AIWD URBAN II 160	13.80	4.60	3.00
	AOWD SPACE II 160	AIWD URBAN II 160	16.00	5.52	2.90
	AOWD SPACE II 120T	AIWD URBAN II 160	12.00	3.87	3.10
	AOWD SPACE II 140T	AIWD URBAN II 160	13.80	4.60	3.00
	AOWD SPACE II 160T	AIWD URBAN II 160	16.00	5.52	2.90
Ambient Temperature: 2/1 Water temperature: 47/55	AOWD SPACE II 40	AIWD URBAN II 100	5.10	2.08	2.45
	AOWD SPACE II 60	AIWD URBAN II 100	5.65	2.31	2.45
	AOWD SPACE II 80	AIWD URBAN II 100	7.10	2.73	2.60
	AOWD SPACE II 100	AIWD URBAN II 100	8.10	3.16	2.56
	AOWD SPACE II 120	AIWD URBAN II 160	11.40	4.47	2.55
	AOWD SPACE II 140	AIWD URBAN II 160	12.40	5.06	2.45
	AOWD SPACE II 160	AIWD URBAN II 160	13.40	5.58	2.40
	AOWD SPACE II 120T	AIWD URBAN II 160	11.40	4.47	2.55
	AOWD SPACE II 140T	AIWD URBAN II 160	11.80	4.82	2.45
	AOWD SPACE II 160T	AIWD URBAN II 160	13.40	5.58	2.40
Ambient Temperature: -7/-8 Water temperature: 47/55	AOWD SPACE II 40	AIWD URBAN II 100	4.00	2.05	1.95
	AOWD SPACE II 60	AIWD URBAN II 100	5.15	2.58	2.00
	AOWD SPACE II 80	AIWD URBAN II 100	6.15	3.00	2.05
	AOWD SPACE II 100	AIWD URBAN II 100	6.85	3.43	2.00
	AOWD SPACE II 120	AIWD URBAN II 160	10.00	4.88	2.05
	AOWD SPACE II 140	AIWD URBAN II 160	11.00	5.37	2.05
	AOWD SPACE II 160	AIWD URBAN II 160	12.50	6.19	2.02
	AOWD SPACE II 120T	AIWD URBAN II 160	10.00	4.88	2.05
	AOWD SPACE II 140T	AIWD URBAN II 160	11.00	5.37	2.05
	AOWD SPACE II 160T	AIWD URBAN II 160	12.50	6.19	2.02

Product fiche

Energy labelling regulation: (EU)811/2013
Ecodesign regulation: (EU)813/2013

Heat pump combination heater		Outdoor		AOWD-SPACEII-40 AIWD-URBANII-100-190L		AOWD-SPACEII-60 AIWD-URBANII-100-190L		AOWD-SPACEII-80 AIWD-URBANII-100-190L		AOWD-SPACEII-80 AIWD-URBANII-100-240L		AOWD-SPACEII-100 AIWD-URBANII-100-190L	
		Indoor											
Indoor unit sound power(*)		dB		38		38		40		40		40	
Outdoor unit sound power(*)		dB		56		58		59		59		60	
Water heating		-		L		L		L		XL		L	
Energy efficiency class		-		A+		A+		A+		A+		A+	
Space heating		-		A++		A++		A++		A++		A++	
Average climate													
Water heating			[%]	127		127		125		137		125	
Annual electricity consumption (AEC)			[kWh]	801		801		820		1218		820	
P _{rated} (declared heating capacity)@-10°C			[kW]	4.4		5.7		6.6		6.6		7.7	
Seasonal space heating efficiency(η _s)			[%]	129.5		137.9		131.5		131.5		136.6	
Annual energy consumption			[kWh]	2744		3345		4056		4056		4539	
Off-peak operation function integrated in heat pump			Y/N	Y		Y		Y		Y		Y	
Colder climate													
Water heating			[%]	102		102		107		111		107	
Annual energy consumption			[kWh]	998		998		950		1508		950	
P _{rated} (declared heating capacity)@-22°C			[kW]	3.36		4.26		5.77		5.77		6.71	
Seasonal space heating efficiency(η _s)			[%]	102.1		111.1		112.0		112.0		116.4	
Annual energy consumption			[kWh]	3159		3681		4950		4950		5540	
Warmer climate													
Water heating			[%]	157		157		151		171		151	
Annual energy consumption			[kWh]	649		649		675		977		675	
P _{rated} (declared heating capacity)@2°C			[kW]	5.01		5.14		8.37		8.37		8.63	
Seasonal space heating efficiency(η _s)			[%]	162.4		164.7		176.9		176.9		180.3	
Annual energy consumption			[kWh]	1621		1640		2485		2485		2516	
Ecodesign technical data													
Air-to-water heat pump			Y/N	Y		Y		Y		Y		Y	
Water-to-water heat pump			Y/N	N		N		N		N		N	
Brine-to-water heat pump			Y/N	N		N		N		N		N	
Low-temperature heat pump			Y/N	N		N		N		N		N	
Equipped with a supplementary heater			Y/N	Y		Y		Y		Y		Y	
Heat pump combination heater			Y/N	Y		Y		Y		Y		Y	
Rated airflow (outdoor)			[m³/h]	2770		2770		4030		4030		4030	
Rated brine/water flow (outdoor H/E)			[m³/h]	-		-		-		-		-	

Heat pump combination heater																
	Outdoor	AOWD-SPACEII-100		AOWD-SPACEII-120		AOWD-SPACEII-120T		AOWD-SPACEII-140		AOWD-SPACEII-140T		AOWD-SPACEII-160		AOWD-SPACEII-160T		
		AIWD-URBANII-100-240L		AIWD-URBANII-100-240L		AIWD-URBANII-100-240L		AIWD-URBANII-100-240L		AIWD-URBANII-100-240L		AIWD-URBANII-100-240L		AIWD-URBANII-100-240L		
Indoor unit sound power(*)	Indoor	40	42	42	42	42	44	44	44	44	44	44	44	44	44	
Outdoor unit sound power(*)	dB	60	64	64	64	64	65	65	65	65	65	68	68	68	68	
Water heating	-	XL	XL	XL	XL	XL	XL	XL	XL	XL	XL	XL	XL	XL	XL	
Energy efficiency class	-	A+	A+	A+	A+	A+	A+	A+	A+	A+	A+	A+	A+	A+	A+	
Space heating	-	A++	A++	A++	A++	A++	A++	A++	A++	A++	A++	A++	A++	A++	A++	
Average climate																
Water heating		137	123	123	123	123	123	123	123	123	123	123	123	123	123	123
Annual electricity consumption (AEC)	[kWh]	1218	1360	1360	1360	1360	1360	1360	1360	1360	1360	1360	1360	1360	1360	1360
P _{rated} (declared heating capacity)@-10°C	[kW]	7.7	11.6	11.6	11.6	11.6	11.6	11.6	11.6	11.6	11.6	11.6	11.6	11.6	11.6	11.6
Seasonal space heating efficiency(η _{sp})	[%]	136.6	135.1	135.1	135.1	135.1	135.1	135.1	135.1	135.1	135.1	133.3	133.3	133.2	133.2	133.2
Annual energy consumption	[kWh]	4539	6927	6927	6927	6927	6927	6927	6927	6927	6927	7895	7895	7896	7896	7896
Off-peak operation function integrated in heat pump	Y/N	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
Colder climate																
Water heating		111	92	92	92	92	92	92	92	92	92	92	92	92	92	92
Annual energy consumption	[kWh]	1508	1822	1822	1822	1822	1822	1822	1822	1822	1822	1822	1822	1822	1822	1822
P _{rated} (declared heating capacity)@+22°C	[kW]	6.71	10.31	10.31	10.31	10.31	10.31	10.31	10.31	10.31	10.31	11.8	11.8	11.8	11.8	11.8
Seasonal space heating efficiency(η _{sp})	[%]	116.4	117.8	117.8	117.8	117.8	117.8	117.8	117.8	117.8	117.8	118.9	118.9	118.9	118.9	118.9
Annual energy consumption	[kWh]	5540	8419	8419	8419	8419	8419	8419	8419	8419	8419	8867	8867	8867	8867	8867
Warmer climate																
Water heating		171	153	153	153	153	153	153	153	153	153	153	153	153	153	153
Annual energy consumption	[kWh]	977	1088	1088	1088	1088	1088	1088	1088	1088	1088	1088	1088	1088	1088	1088
P _{rated} (declared heating capacity)@2°C	[kW]	8.63	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	14.17	14.17	14.17	14.17	14.17
Seasonal space heating efficiency(η _{sp})	[%]	180.3	174.0	174.0	173.8	173.8	173.8	173.8	173.8	173.8	173.8	174.7	174.7	174.7	174.7	174.7
Annual energy consumption	[kWh]	2516	3776	3776	3780	3780	3780	3780	3780	3780	3780	4258	4258	4258	4231	4236
Ecodesign technical data																
Product description		Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
Water heating	Y/N	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
Water-to-water heat pump	Y/N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Brine-to-water heat pump	Y/N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Low-temperature heat pump	Y/N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Equipped with a supplementary heater	Y/N	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
Heat pump combination heater	Y/N	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
Rated airflow (outdoor)	[m ³ /h]	4030	4060	4060	4060	4060	4060	4060	4060	4060	4060	4060	4060	4060	4060	4060
Rated brine/water flow (outdoor H/E)	[m ³ /h]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Heat pump combination heater		Outdoor		AOWD-SPACEII-40		AOWD-SPACEII-60		AOWD-SPACEII-80		AOWD-SPACEII-80		AOWD-SPACEII-100	
		Indoor		AIWD-URBANII-100-190L		AIWD-URBANII-100-190L		AIWD-URBANII-100-190L		AIWD-URBANII-100-190L		AIWD-URBANII-100-190L	
Capacity control		-	Yes		Yes		Yes		Yes		Yes		Yes
P _{off} (Power consumption Off mode)		[kW]	0.014		0.014		0.014		0.014		0.014		0.014
P _b (Power consumption Thermostat off mode)		[kW]	0.024		0.024		0.024		0.024		0.024		0.024
P _{sb} (Power consumption standby mode)		[kW]	0.014		0.014		0.014		0.014		0.014		0.014
P _{ck} (Power crankcase heater mode)		[kW]	0.000		0.000		0.000		0.000		0.000		0.000
O _{elec} (Daily electricity consumption)		[kWh]	3.66		3.66		3.66		3.66		3.66		3.66
O _{fuel} (Daily fuel consumption)		[kWh]	-		-		-		-		-		-
Part load conditions space heating average climate													
P _{ah} (declared heating capacity)		[kW]	3.89		3.89		5.04		5.84		5.84		6.78
COP _d (declared COP)		-	2.17		2.17		2.17		2.16		2.16		2.24
Cdh (degradation coefficient)		-	0.90		0.90		0.90		0.90		0.90		0.90
P _{ah} (declared heating capacity)		[kW]	2.38		2.38		3.12		3.76		3.76		4.28
COP _d (declared COP)		-	3.30		3.30		3.51		3.30		3.30		3.42
Cdh (degradation coefficient)		-	0.90		0.90		0.90		0.90		0.90		0.90
P _{ah} (declared heating capacity)		[kW]	2.94		2.94		2.08		2.43		2.43		2.77
COP _d (declared COP)		-	4.41		4.41		4.54		4.34		4.34		4.52
Cdh (degradation coefficient)		-	0.90		0.90		0.90		0.90		0.90		0.90
P _{ah} (declared heating capacity)		[kW]	1.32		1.32		1.28		1.39		1.39		1.58
COP _d (declared COP)		-	5.66		5.66		5.59		5.33		5.33		5.68
Cdh (degradation coefficient)		-	0.90		0.90		0.90		0.90		0.90		0.90
T _{ol} (Temperature Operating Limit)		[°C]	-10		-10		-10		-10		-10		-10
P _{ah} (declared heating capacity)		[kW]	3.42		3.42		4.52		4.91		4.91		5.38
COP _d (declared COP)		-	1.91		1.91		1.91		1.84		1.84		1.83
WTOL (Heating water Operation Limit)		[°C]	65		65		65		65		65		65
T _{bw}		[°C]	-7		-7		-7		-7		-7		-7
P _{ah} (declared heating capacity)		[kW]	3.89		3.89		5.04		5.84		5.84		6.78
COP _d (declared COP)		-	2.17		2.17		2.17		2.16		2.16		2.24
P _{sup, back-up heater} (@ T _{design} : -10°C)		[kW]	3/6/9		3/6/9		3/6/9		3/6/9		3/6/9		3/6/9
P _{sup} (@ T _{design} : -10°C)		[kW]	0.98		0.98		1.18		1.69		1.69		2.28

Heat pump combination heater		Outdoor	AOWD-SPACEII-100	AOWD-SPACEII-120	AOWD-SPACEII-120T	AOWD-SPACEII-140	AOWD-SPACEII-140T	AOWD-SPACEII-160	AOWD-SPACEII-160T	
		Indoor	AIWD-URBANII-100-240L	AIWD-URBANII-100-240L	AIWD-URBANII-100-240L	AIWD-URBANII-100-240L	AIWD-URBANII-100-240L	AIWD-URBANII-100-240L	AIWD-URBANII-100-240L	AIWD-URBANII-100-240L
Capacity control		-	Yes	Yes	Yes	Yes	Yes	Yes	Yes	
P _{off} (Power consumption Off mode)		[kW]	0.014	0.014	0.020	0.014	0.020	0.014	0.020	
P _b (Power consumption Thermostat off mode)		[kW]	0.024	0.024	0.030	0.024	0.030	0.024	0.030	
P _{sb} (Power consumption standby mode)		[kW]	0.014	0.014	0.020	0.014	0.020	0.014	0.020	
P _{CK} (Power crankcase heater model)		[kW]	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
Q _{elec} (Daily electricity consumption)		[kWh]	5.67	6.35	6.35	6.35	6.35	6.35	6.35	
Q _{fuel} (Daily fuel consumption)		[kWh]	-	-	-	-	-	-	-	
Part load conditions space heating average climate										
P _{th} (declared heating capacity)		[kW]	6.78	10.24	10.24	10.68	10.68	11.52	11.52	
COP _d (declared COP)		-	2.24	2.01	2.01	2.01	2.01	1.99	1.99	
Cdh (deklaration coefficient)		-	0.90	0.90	0.90	0.90	0.90	0.90	0.90	
P _{th} (declared heating capacity)		[kW]	4.28	6.52	6.52	6.86	6.86	7.18	7.18	
COP _d (declared COP)		-	3.42	3.44	3.44	3.43	3.43	3.34	3.34	
Cdh (deklaration coefficient)		-	0.90	0.90	0.90	0.90	0.90	0.90	0.90	
P _{th} (declared heating capacity)		[kW]	2.77	4.36	4.36	4.63	4.63	4.67	4.67	
COP _d (declared COP)		-	4.52	4.59	4.59	4.66	4.66	4.61	4.61	
Cdh (deklaration coefficient)		-	0.90	0.90	0.90	0.90	0.90	0.90	0.90	
P _{th} (declared heating capacity)		[kW]	1.58	3.29	3.29	3.31	3.31	3.32	3.32	
COP _d (declared COP)		-	5.68	6.05	6.05	6.13	6.13	6.07	6.07	
Cdh (deklaration coefficient)		-	0.90	0.90	0.90	0.90	0.90	0.90	0.90	
T _{oi} (Temperature Operating Limit)		[°C]	-10	-10	-10	-10	-10	-10	-10	
P _{th} (declared heating capacity)		[kW]	5.38	9.1	9.1	9.19	9.19	10.33	10.33	
COP _d (declared COP)		-	1.83	1.79	1.79	1.76	1.76	1.80	1.80	
WTOL (Heating water Operation Limit)		[°C]	65	65	65	65	65	65	65	
T _{bw}		[°C]	-7	-7	-7	-7	-7	-7	-7	
P _{th} (declared heating capacity)		[kW]	6.78	10.27	10.27	10.68	10.68	11.52	11.52	
COP _d (declared COP)		-	2.24	2.01	2.01	2.01	2.01	1.99	1.99	
Capacity of the back-up heater integrated in the unit		[kW]	3/6/9	3/6/9	3/6/9	3/6/9	3/6/9	3/6/9	3/6/9	
Supplementary capacity at P _{design}		[kW]	2.28	2.5	2.5	2.91	2.91	2.67	2.67	

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