

## ERP DATA

<b>Product fiche 1</b>							
<b>Heat pump space heater</b>		unit	5	7	10	14	14T
Indoor unit sound power (*)		[dB(A)]	/	/	/	/	/
Outdoor unit sound power (*)		[dB(A)]	61	65	66	71	71
Capacity of the back-up heater integrated in the unit	Psup back-up heater	[kW]	0	0	0	0	0
off peak operation function integrated in Heat pump		Y/N	No	No	No	No	No
Space heating	Energy efficiency class 35°C (Low temp. app.)	-	A++	A++	A++	A++	A++
Space heating	Energy efficiency class 55°C (Medium temp. app.)	-	A++	A++	A++	A++	A++
Average climate (Design temperature = -10°C)							
Space heating 35°C	Prated (declared heating capacity) @ -10°C	[kW]	5	7	10	14	14
	Seasonal space heating efficiency (ηs)	[%]	176	178	162	173	168
	Annual energy consumption	[kWh]	2,143	2,989	4,896	6,630	6,551
Space heating 55°C	Prated (declared heating capacity) @ -10°C	[kW]	7	7	11	13	13
	Seasonal space heating efficiency (ηs)	[%]	126	126	129	129	128
	Annual energy consumption	[kWh]	4,228	4,228	7,025	8,550	8,291
Part load conditions space heating average climate low temperature							
(A) condition (-7°C)	Pdh (declared heating capacity)	[kW]	4.1	5.80	9.1	12.8	12.0
	COPd (declared COP)	-	2.85	2.80	2.74	2.78	2.66
	Cdh(degradation coefficient)	-	0.90	0.90	0.90	0.90	0.90
(B) condition (2°C)	Pdh (declared heating capacity)	[kW]	2.4	3.6	5.3	7.8	7.2
	COPd (declared COP)	-	4.53	4.18	4.10	4.09	3.97
	Cdh(degradation coefficient)	-	0.90	0.90	0.90	0.90	0.90
(C) condition (7°C)	Pdh (declared heating capacity)	[kW]	1.7	2.3	3.5	4.8	4.9
	COPd (declared COP)	-	6.08	6.39	5.90	6.12	6.36
	Cdh(degradation coefficient)	-	0.90	0.90	0.90	0.90	0.90
(D) condition (12°C)	Pdh (declared heating capacity)	[kW]	1.3	1.4	1.4	3.1	3.8
	COPd (declared COP)	-	8.92	9.24	4.40	8.83	9.00
	Cdh(degradation coefficient)	-	0.90	0.90	0.90	0.90	0.90

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### Product fiche 2

Heat pump space heater		unit	5	7	10	14	14T
(E) Tol (temperature operating limit)	Tol (temperature operating limit)	[°C]	-10	-10	-10	-10	-10
	Pdh (declared heating capacity)	[kW]	4.2	6.3	9.8	11.8	10.8
	COPd (declared COP)	-	2.62	2.61	2.48	2.59	2.41
	WTOL (Heating water Operation Limit)	[°C]	49	49	49	49	49
(F) Tivalent temperature	Tblv	[°C]	-7	-7	-10	-8	-7
	Pdh (declared heating capacity)	[kW]	4.1	5.8	9.8	13.0	12.0
	COPd (declared COP)	-	2.85	2.80	2.48	2.84	2.66
Supplementary capacity at P_design	Psup (@Tdesignh: – 10°C)	[kW]	0.5	0.3	0	2.2	2.7
Part load conditions space heating average climate medium temperature							
(A) condition (-7°C)	Pdh (declared heating capacity)	[kW]	5.8	5.8	10.0	12.0	11.6
	COPd (declared COP)	-	1.97	1.97	2.01	2.06	2.02
	Cdh(degradation coefficient)	-	0.90	0.90	0.90	0.90	0.90
(B) condition (2°C)	Pdh (declared heating capacity)	[kW]	3.7	3.7	6.3	7.4	7.5
	COPd (declared COP)	-	3.06	3.06	3.18	3.12	3.10
	Cdh(degradation coefficient)	-	0.90	0.90	0.90	0.90	0.90
(C) condition (7°C)	Pdh (declared heating capacity)	[kW]	2.6	2.6	4.0	4.7	4.7
	COPd (declared COP)	-	4.46	4.46	4.54	4.68	4.68
	Cdh(degradation coefficient)	-	0.90	0.90	0.90	0.90	0.90
(D) condition (12°C)	Pdh (declared heating capacity)	[kW]	1.3	1.3	2.6	2.1	2.8
	COPd (declared COP)	-	5.65	5.65	5.37	4.82	5.20
	Cdh(degradation coefficient)	-	0.90	0.90	0.90	0.90	0.90
(E) Tol (temperature operating limit)	Tol (temperature operating limit)	[°C]	-10	-10	-10	-10	-10
	Pdh (declared heating capacity)	[kW]	6.6	6.6	10.9	11.0	11.7
	COPd (declared COP)	-	1.71	1.72	1.76	1.75	1.77
	WTOL (Heating water Operation Limit)	[°C]	49	49	49	49	49
(F) Tivalent temperature	Tblv	[°C]	-7	-7	-7	-7	-7
	Pdh (declared heating capacity)	[kW]	5.8	5.8	10.0	12.0	11.6
	COPd (declared COP)	-	1.97	1.97	2.01	2.06	2.02
Supplementary capacity at P_design	Psup (@Tdesignh: – 10°C)	[kW]	0	0	0.4	2.6	1.5

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### Product fiche 3

Heat pump space heater		unit	5	7	10	14	14T
Colder climate (Design temperature = -22°C)							
Space heating 35°C	Prated (declared heating capacity) @ -22°C	[kW]	5	7	11	14	14
	Seasonal space heating efficiency ( $\eta_s$ )	[%]	133	158	132	136	145
	Annual energy consumption	[kWh]	3,331	4,116	7,747	10,032	9,430
Space heating 55°C	Prated (declared heating capacity) @ -22°C	[kW]	5	7	10	12	12
	Seasonal space heating efficiency ( $\eta_s$ )	[%]	100	106	99	94	108
	Annual energy consumption	[kWh]	4,459	6,436	9,946	12,303	10,956
Part load conditions space heating colder climate low temperature							
condition (-15°C)	Pdh (declared heating capacity)	[kW]	3.7	5.5	8.6	9.9	10.3
	COPd (declared COP)	-	2.23	2.41	2.35	2.21	2.42
	Cdh(degradation coefficient)	-	0.90	0.90	0.90	0.90	0.90
(A) condition (-7°C)	Pdh (declared heating capacity)	[kW]	2.7	4.0	6.3	8.9	9.2
	COPd (declared COP)	-	3.04	3.25	3.11	2.90	3.15
	Cdh(degradation coefficient)	-	0.90	0.90	0.90	0.90	0.90
(B) condition (2°C)	Pdh (declared heating capacity)	[kW]	1.6	2.5	3.8	5.2	6.0
	COPd (declared COP)	-	3.91	5.16	4.01	4.19	4.55
	Cdh(degradation coefficient)	-	0.90	0.90	0.90	0.90	0.90
(C) condition (7°C)	Pdh (declared heating capacity)	[kW]	1.3	1.8	2.4	3.4	3.5
	COPd (declared COP)	-	5.98	7.13	5.82	5.85	6.03
	Cdh(degradation coefficient)	-	0.90	0.90	0.90	0.90	0.90
(D) condition (12°C)	Pdh (declared heating capacity)	[kW]	1.2	1.1	1.1	4.4	2.6
	COPd (declared COP)	-	8.59	7.57	3.56	8.72	5.65
	Cdh(degradation coefficient)	-	0.90	0.90	0.90	0.90	0.90
(E) Tol (temperature operating limit)	Tol (temperature operating limit)	[°C]	-20	-20	-20	-20	-20
	Pdh (declared heating capacity)	[kW]	4.5	4.9	8.2	7.6	8.2
	COPd (declared COP)	-	1.83	2.00	1.87	1.88	2.00
	WTOL (Heating water Operation Limit)	[°C]	40	40	40	40	40
(F) Tbivalent temperature	Tblv	[°C]	-15	-15	-15	-12	-13
	Pdh (declared heating capacity)	[kW]	3.7	5.5	8.6	10.4	10.8
	COPd (declared COP)	-	2.23	2.41	2.35	2.36	2.58
Supplementary capacity at P_design	Psup (@Tdesignh: -22°C)	[kW]	0	1.5	1.8	5.0	4.9

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### Product fiche 4

Heat pump space heater		unit	5	7	10	14	14T
Part load conditions space heating colder climate medium temperation							
condition (-15°C)	Pdh (declared heating capacity)	[kW]	3.8	5.0	8.4	10.1	9.3
	COPd (declared COP)	-	1.66	1.66	1.68	1.82	1.80
	Cdh(degradation coefficient)	-	0.90	0.90	0.90	0.90	0.90
(A) condition (-7°C)	Pdh (declared heating capacity)	[kW]	3.0	4.4	6.2	7.8	7.8
	COPd (declared COP)	-	2.12	2.26	2.17	2.14	2.32
	Cdh(degradation coefficient)	-	0.90	0.90	0.90	0.90	0.90
(B) condition (2°C)	Pdh (declared heating capacity)	[kW]	1.7	2.5	3.9	4.4	4.5
	COPd (declared COP)	-	3.01	3.43	3.00	2.77	3.35
	Cdh(degradation coefficient)	-	0.90	0.90	0.90	0.90	0.90
(C) condition (7°C)	Pdh (declared heating capacity)	[kW]	1.2	1.6	2.5	2.9	2.9
	COPd (declared COP)	-	3.91	4.39	4.09	4.16	4.44
	Cdh(degradation coefficient)	-	0.90	0.90	0.90	0.90	0.90
(D) condition (12°C)	Pdh (declared heating capacity)	[kW]	1.1	1.0	1.2	1.3	2.4
	COPd (declared COP)	-	5.84	5.39	3.10	3.33	4.73
	Cdh(degradation coefficient)	-	0.90	0.90	0.90	0.90	0.90
(E) Tol (temperature operating limit)	Tol (temperature operating limit)	[°C]	-20	-20	-20	-20	-20
	Pdh (declared heating capacity)	[kW]	4.2	4.2	7.1	7.1	7.3
	COPd (declared COP)	-	1.37	1.34	1.31	1.29	1.40
	WTOL (Heating water Operation Limit)	[°C]	40	40	40	40	40
(F) Tbivalent temperature	Tblv	[°C]	-15	-13	-15	-11	-14
	Pdh (declared heating capacity)	[kW]	3.8	5.4	8.4	8.6	9.8
	COPd (declared COP)	-	1.66	1.77	1.68	1.59	1.89
Supplementary capacity at P_design	Psup (@Tdesignh: -22°C)	[kW]	0.2	2.5	2.6	4.4	4.4
Warmer climate (Design temperature =2°C)							
Space heating 35°C	Prated (declared heating capacity) @ 2 °C	[kW]	5	7	10	14	14
	Seasonal space heating efficiency (ηs)	[%]	229	248	272	237	188
	Annual energy consumption	[kWh]	1,105	1,392	2,021	3,223	4,023
Space heating 55°C	Prated (declared heating capacity) @ 2 °C	[kW]	5	7	10	12	12
	Seasonal space heating efficiency (ηs)	[%]	145	167	153	160	147
	Annual energy consumption	[kWh]	1,660	2,121	3,534	3,928	4,445

## ERP DATA

### Product fiche 5

Heat pump space heater		unit	5	7	10	14	14T
Part load conditions space heating warmer climate low temperature							
(B) condition (2°C)	Pdh (declared heating capacity)	[kW]	4.7	6.6	10.1	14.0	13.7
	COPd (declared COP)	-	3.82	3.45	3.89	2.98	3.21
	Cdh(degradation coefficient)	-	0.90	0.90	0.90	0.90	0.90
(C) condition (7°C)	Pdh (declared heating capacity)	[kW]	3.1	4.2	6.7	9.3	9.2
	COPd (declared COP)	-	5.70	5.59	5.61	5.17	5.31
	Cdh(degradation coefficient)	-	0.90	0.90	0.9	0.9	0.90
(D) condition (12°C)	Pdh (declared heating capacity)	[kW]	1.3	2.1	3.9	4.2	3.8
	COPd (declared COP)	-	7.76	8.15	10.18	8.01	7.51
	Cdh(degradation coefficient)	-	0.90	0.90	0.90	0.90	0.90
(E) Tol (temperature operating limit)	Tol (temperature operating limit)	[°C]	2	2	2	2	2
	Pdh (declared heating capacity)	[kW]	4.7	6.6	10.1	14.0	13.7
	COPd (declared COP)	-	3.82	3.45	3.89	2.98	3.21
	WTOL (Heating water Operation Limit)	[°C]	60	60	60	60	60
(F) Tbivalent temperature	Tblv	[°C]	7	7	7	7	7
	Pdh (declared heating capacity)	[kW]	3.1	4.2	6.7	9.3	9.2
	COPd (declared COP)	-	5.70	5.59	5.61	5.17	5.31
Supplementary capacity at P_design	Psup (@Tdesignh: 2° C)	[kW]	0.1	0	0.3	0.5	0.6
Part load conditions space heating warmer climate medium temperature							
(B) condition (2°C)	Pdh (declared heating capacity)	[kW]	4.7	6.8	10.2	12.5	12.2
	COPd (declared COP)	-	2.07	2.18	2.35	2.37	2.42
	Cdh(degradation coefficient)	-	0.90	0.90	0.90	0.90	0.90
(C) condition (7°C)	Pdh (declared heating capacity)	[kW]	3.0	4.4	6.6	7.7	8.0
	COPd (declared COP)	-	3.29	3.45	3.38	3.37	3.50
	Cdh(degradation coefficient)	-	0.90	0.90	0.90	0.90	0.90
(D) condition (12°C)	Pdh (declared heating capacity)	[kW]	1.4	2.1	3.0	3.6	3.4
	COPd (declared COP)	-	4.74	6.01	4.95	5.35	5.25
	Cdh(degradation coefficient)	-	0.90	0.90	0.90	0.90	0.90
(E) Tol (temperature operating limit)	Tol (temperature operating limit)	[°C]	2	2	2	2	2
	Pdh (declared heating capacity)	[kW]	4.7	6.8	10.2	12.5	12.2
	COPd (declared COP)	-	2.07	2.18	2.35	2.37	2.42
	WTOL (Heating water Operation Limit)	[°C]	60	60	60	60	60

## ERP DATA

### Product fiche 6

Heat pump space heater		unit	5	7	10	14	14T
(F) Tivalent temperature	Tblv	[°C]	7	7	7	7	7
	Pdh (declared heating capacity)	[kW]	3.0	4.4	6.6	7.7	8.0
	COPd (declared COP)	-	3.29	3.45	3.38	3.37	3.50
Supplementary capacity at P_design	Psup (@Tdesignh: – 10°C)	[kW]	0	0	0.1	0	0.3
Ecodesign technical data							
Product description	Air-to-water heat pump	Y/N	Yes	Yes	Yes	Yes	Yes
	Water-to-water heat pump	Y/N	No	No	No	No	No
	Brine-to-water heat pump	Y/N	No	No	No	No	No
	Low-temperature heat pump	Y/N	No	No	No	No	No
	Equipped with a supplementary heater	Y/N	No	No	Yes	Yes	Yes
	Heat pump combination heater	Y/N	No	No	No	No	No
Air to water unit	Rated airflow (outdoor)	[m <sup>3</sup> /h]	3350	3050	6150	6150	6150
Brine/water to water unit	Rated water/brine flow (outdoor H/E)	[m <sup>3</sup> /h]	/	/	/	/	/
Other	Capacity control	-	Inverter	Inverter	Inverter	Inverter	Inverter
	Poff (Power consumption Off mode)	[kW]	0.016	0.016	0.017	0.017	0.027
	Pto (Power consumption Thermostat off mode)	[kW]	0.016	0.016	0.006	0.006	0.006
	Psb (Power consumption Standby mode)	[kW]	0.016	0.016	0.017	0.017	0.027
	PCK (Power crankcase heater model)	[kW]	0.034	0.034	0.018	0.018	0.001
	Qelec (Daily electricity consumption)	[kWh]	/	/	/	/	/
	Qfuel (Daily fuel consumption)	[kWh]	/	/	/	/	/

Details and precautions on installation, maintenance and assembly are provided in the user manual.  
 Product fiche data according to energy label directive 2010/30/EC (EU) 811/2010