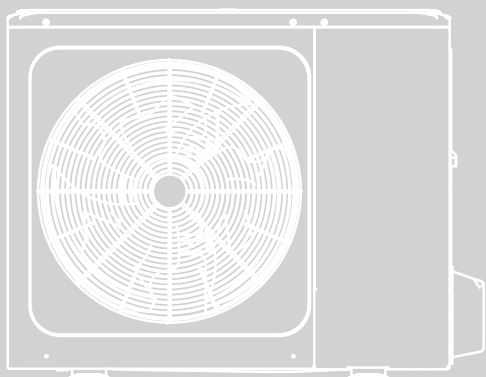


TECHNICAL DATA MANUAL AND ENERGY EFFICIENCY

DLI Split Outdoor Unit



IMPORTANT NOTE:



Thank you very much for purchasing our product,
Before using your unit , please read this manual carefully and keep it for future reference.
RG66027562

Product fiche

Energy labelling regulation: (EU)811/2013

Ecodesign regulation: (EU)813/2013

Heat pump combination heater		Outdoor	OLI006HMAA	OLI008HMAA	OLI010HMAA	OLI012HMAA	OLI012H0AA	OLI016HMAA	OLI016H0AA
		Indoor	ILI010SA	ILI010SA	ILI010SA	ILI016SA	ILI016SA	ILI016SA	ILI016SA
Indoor unit sound power(*)		dB	38	40	40	42	42	44	44
Outdoor unit sound power(*)		dB	58	59	60	64	64	68	68
Water heating	Declared load profile	-	XL	L	XL	XL	XL	XL	XL
	Energy efficiency class	-	A+	A+	A+	A+	A+	A+	A+
Space heating	Energy efficiency class at 55°C (High temp. app.)	-	A++	A++	A++	A++	A++	A++	A++
Average climate									
Water heating	Water heating energy efficiency (η_{wh})	[%]	136	125	137	123	123	123	123
	Annual electricity consumption (AEC)	[kWh]	1229	820	1218	1360	1360	1360	1360
Space heating	P_{rated} (declared heating capacity)@-10°C	[kW]	5.7	6.6	7.7	11.6	11.6	13.0	13.0
	Seasonal space heating efficiency (η_{sh})	[%]	137.9	131.5	136.6	135.1	135.1	133.3	133.2
	Annual energy consumption	[kWh]	3345	4056	4539	6927	6928	7895	7896
Off-peak operation function integrated in heat pump		Y/N	Y	Y	Y	Y	Y	Y	Y
Colder climate									
Water heating	Water heating energy efficiency (η_{wh})	[%]	107	107	111	92	92	92	92
	Annual energy consumption	[kWh]	1561	950	1508	1822	1822	1822	1822
Space heating	P_{rated} (declared heating capacity)@-22°C	[kW]	4.26	5.77	6.71	10.31	10.3	11.8	11.8
	Seasonal space heating efficiency (η_{sh})	[%]	111.1	112.0	116.4	117.8	117.7	121.8	121.8
	Annual energy consumption	[kWh]	3681	4950	5540	8419	8420	9309	9310
Warmer climate									
Water heating	Water heating energy efficiency (η_{wh})	[%]	174	151	171	153	153	153	153
	Annual energy consumption	[kWh]	963	675	977	1088	1088	1088	1088
Space heating	P_{rated} (declared heating capacity)@2°C	[kW]	5.14	8.37	8.63	12.5	12.5	14.17	14.17
	Seasonal space heating efficiency (η_{sh})	[%]	164.7	176.9	180.3	174.0	173.8	176.0	175.8
	Annual energy consumption	[kWh]	1640	2485	2516	3776	3780	4231	4236
Ecodesign technical data									
Product description	Air-to-water heat pump	Y/N	Y	Y	Y	Y	Y	Y	Y
	Water-to-water heat pump	Y/N	N	N	N	N	N	N	N
	Brine-to-water heat pump	Y/N	N	N	N	N	N	N	N
	Low-temperature heat pump	Y/N	N	N	N	N	N	N	N
	Equipped with a supplementary heater	Y/N	Y	Y	Y	Y	Y	Y	Y
	Heat pump combination heater	Y/N	Y	Y	Y	Y	Y	Y	Y
Air-to-water unit	Rated airflow (outdoor)	[m ³ /h]	2770	4030	4030	4060	4060	4650	4650
Brine/water-to-water heat pump	Rated brine/water flow (outdoor H/E)	[m ³ /h]	-	-	-	-	-	-	-

Heat pump combination heater		Outdoor	OLI006HMAA	OLI008HMAA	OLI010HMAA	OLI012HMAA	OLI012H0AA	OLI016HMAA	OLI016H0AA
		Indoor	ILI010SA	ILI010SA	ILI010SA	ILI016SA	ILI016SA	ILI016SA	ILI016SA
Other	Capacity control	-	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	P _{off} (Power consumption Off mode)	[kW]	0.014	0.014	0.014	0.014	0.020	0.014	0.020
	P _{to} (Power consumption Thermostat off mode)	[kW]	0.024	0.024	0.024	0.024	0.030	0.024	0.030
	P _{sb} (Power consumption standby mode)	[kW]	0.014	0.014	0.014	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]	5.71	5.67	5.67	6.35	6.35	6.35	6.35
	Q _{fuel} (Daily fuel consumption)	[kWh]	-	-	-	-	-	-	-
Part load conditions space heating average climate									
(A) condition (-7 °C)	P _{dh} (declared heating capacity)	[kW]	5.04	5.84	6.78	10.24	10.24	11.52	11.52
	COP _d (declared COP)	-	2.17	2.16	2.24	2.01	2.01	1.99	1.99
	Cdh (deklaradation coefficient)	-	0.90	0.90	0.90	0.90	0.90	0.90	0.90
(B) condition (2 °C)	P _{dh} (declared heating capacity)	[kW]	3.12	3.76	4.28	6.52	6.52	7.18	7.18
	COP _d (declared COP)	-	3.51	3.30	3.42	3.44	3.44	3.34	3.34
	Cdh (deklaradation coefficient)	-	0.90	0.90	0.90	0.90	0.90	0.90	0.90
(C) condition (7 °C)	P _{dh} (declared heating capacity)	[kW]	2.08	2.43	2.77	4.36	4.36	4.67	4.67
	COP _d (declared COP)	-	4.54	4.34	4.52	4.59	4.59	4.61	4.61
	Cdh (deklaradation coefficient)	-	0.90	0.90	0.90	0.90	0.90	0.90	0.90
(D) condition (12 °C)	P _{dh} (declared heating capacity)	[kW]	1.28	1.39	1.58	3.29	3.29	3.32	3.32
	COP _d (declared COP)	-	5.59	5.33	5.68	6.05	6.05	6.07	6.07
	Cdh (deklaradation 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	-10	-10	-10	-10	-10	-10
	P _{dh} (declared heating capacity)	[kW]	4.52	4.91	5.38	9.1	9.1	10.33	10.33
	COP _d (declared COP)	-	1.91	1.84	1.83	1.79	1.79	1.80	1.80
	WTOL(Heating water Operation Limit)	[°C]	65	65	65	65	65	65	65
(F) Tbivalent Temperature	T _{biv}	[°C]	-7	-7	-7	-7	-7	-7	-7
	P _{dh} (declared heating capacity)	[kW]	5.04	5.84	6.78	10.27	10.27	11.52	11.52
	COP _d (declared COP)	-	2.17	2.16	2.24	2.01	2.01	1.99	1.99
Capacity of the back-up heater integrated in the unit	P _{sup} back-up heater (@ Tdesignh: -10 °C)	[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}	P _{sup} (@ Tdesignh: -10 °C)	[kW]	1.18	1.69	2.28	2.5	2.5	2.67	2.67

Note :

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

(*)Sound power in heating mode, measured according to the EN 12102 under conditions of the EN 14825.

This data is for comparison of Energy efficiencies according to Energy label directive 2010/30/EU, for correct selection of products for your application, contact your dealer.

Depending on your application and the product selected an additional supplementary heater may have to be installed.

Heat pump space heating		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
OLI006HMAA	ILI006MA	A++	38	58	5.7	137.9	3345	4.3	111.1	3680	5.1	165.4	1634
	ILI010SA	A++	38	58	5.7	137.9	3345	4.3	111.1	3680	5.1	165.4	1634
OLI008HMAA	ILI010MA	A++	42	59	6.6	131.5	4056	5.8	112.1	4948	8.37	176.9	2485
	ILI010SA	A++	40	59	6.6	131.5	4056	5.8	112.1	4948	8.37	176.9	2485
OLI010HMAA	ILI010MA	A++	42	60	7.7	136.6	4539	6.7	116.5	5539	8.6	180.3	2496
	ILI010SA	A++	40	60	7.7	136.6	4539	6.7	116.5	5539	8.6	180.3	2496
OLI012HMAA	ILI016MA	A++	43	64	11.6	135.1	6927	10.3	117.8	8419	12.5	174.0	3776
	ILI016SA	A++	42	64	11.6	135.1	6927	10.3	117.8	8419	12.5	174.0	3776
OLI012H0AA	ILI016MA	A++	43	64	11.6	135.1	6928	10.3	117.7	8420	12.5	173.8	3780
	ILI016SA	A++	42	64	11.6	135.1	6928	10.3	117.7	8420	12.5	173.8	3780
OLI016HMAA	ILI016MA	A++	43	68	13.0	133.3	7895	11.8	121.8	9309	14.17	176.0	4231
	ILI016SA	A++	44	68	13.0	133.3	7895	11.8	121.8	9309	14.17	176.0	4231
OLI016H0AA	ILI016MA	A++	43	68	13.0	133.2	7896	11.8	121.8	9310	14.17	175.8	4236
	ILI016SA	A++	44	68	13.0	133.2	7896	11.8	121.8	9310	14.17	175.8	4236

Heat pump space heating		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
OLI006HMAA	ILI006MA	A+++	38	58	6.8	195.0	2845	5.6	165.3	3300	6.1	259.8	1244
		A+++	38	58	6.8	195.0	2845	5.6	165.3	3300	6.1	259.8	1244
	ILI010SA	A+++	38	58	6.8	195.0	2845	5.6	165.3	3300	6.1	259.8	1244
OLI008HMAA	ILI010MA	A+++	42	59	8.1	205.6	3218	7.0	170.0	3976	8.1	276.6	1551
		A+++	40	59	8.1	205.6	3218	7.0	170.0	3976	8.1	276.6	1551
	ILI010SA	A+++	40	59	8.1	205.6	3218	7.0	170.0	3976	8.1	276.6	1551
OLI010HMAA	ILI010MA	A+++	42	60	9.2	204.8	3644	7.7	169.8	4423	8.6	280.5	1617
		A+++	40	60	9.2	204.8	3644	7.7	169.8	4423	8.6	280.5	1617
	ILI010SA	A+++	40	60	9.2	204.8	3644	7.7	169.8	4423	8.6	280.5	1617
OLI012HMAA	ILI016MA	A+++	43	64	12.0	189.4	5152	11.4	160.2	6870	11.1	256.1	2292
	ILI016SA	A+++	42	64	12.0	189.4	5152	11.4	160.2	6870	11.1	256.1	2292
OLI012H0AA	ILI016MA	A+++	43	64	12.0	189.3	5153	11.4	160.2	6871	11.1	255.6	2296
	ILI016SA	A+++	42	64	12.0	189.3	5153	11.4	160.2	6871	11.1	255.6	2296
OLI016HMAA	ILI016MA	A+++	43	68	15.2	181.7	6804	13.7	157.8	8431	13.1	248.5	2781
	ILI016SA	A+++	44	68	15.2	181.7	6804	13.7	157.8	8431	13.1	248.5	2781
OLI016H0AA	ILI016MA	A+++	43	68	15.2	181.6	6805	13.7	157.8	8431	13.1	248.1	2786
	ILI016SA	A+++	44	68	15.2	181.6	6805	13.7	157.8	8431	13.1	248.1	2786

Product fiche 1

Heat pump space heating		Outdoor	OLI006HMAA	OLI008HMAA	OLI010HMAA	OLI012HMAA
		Indoor	ILI006MA ILI010SA	ILI010MA ILI010SA	ILI010MA ILI010SA	ILI016MA ILI016SA
Indoor unit sound power (*)		dB	38 ^{a)} /38 ^{b)}	42 ^{a)} /40 ^{b)}	42 ^{a)} /40 ^{b)}	43 ^{a)} /42 ^{b)}
Outdoor unit sound power (*)	Average climate low temperature application	dB	58	59	60	64
	Average climate medium temperature application	dB	58	59	60	64
Capacity of the back-up heater integrated in the unit	Psup back-up heater (optional)	[kW]	3/6/9	3/6/9	3/6/9	3/6/9
Space heating	Energy efficiency class 35°C (Low temp. app.)	-	A+++	A+++	A+++	A+++
Space heating	Energy efficiency class 55°C (Medium temp. app.)	-	A++	A++	A++	A++
Average climate (Design temperature = -10°C)						
Space heating 35°C	Prated (declared heating capacity) @ -10°C	[kW]	6.8	8.1	9.2	12.0
	Seasonal space heating efficiency (ηs)	[%]	195.0	205.6	204.8	189.4
	Annual energy consumption	[kWh]	2,845	3,218	3,644	5,152
Space heating 55°C	Prated (declared heating capacity) @ -10°C	[kW]	5.7	6.6	7.7	11.6
	Seasonal space heating efficiency (ηs)	[%]	137.9	131.5	136.6	135.1
	Annual energy consumption	[kWh]	3,345	4,056	4,539	6,927
Part load conditions space heating average climate low temperature application						
(A) condition (-7°C)	Pdh (declared heating capacity)	[kW]	6.03	7.18	8.10	10.61
	COPd (declared COP)	-	3.09	3.35	3.23	2.88
	Cdh(degradation coefficient)	-	0.90	0.90	0.90	0.90
(B) condition (2°C)	Pdh (declared heating capacity)	[kW]	3.88	4.65	5.18	6.69
	COPd (declared COP)	-	4.85	5.09	5.01	4.65
	Cdh(degradation coefficient)	-	0.90	0.90	0.90	0.90
(C) condition (7°C)	Pdh (declared heating capacity)	[kW]	2.39	2.90	3.32	4.44
	COPd (declared COP)	-	6.63	6.82	7.08	6.62
	Cdh(degradation coefficient)	-	0.90	0.90	0.90	0.90
(D) condition (12°C)	Pdh (declared heating capacity)	[kW]	1.39	1.63	1.65	3.74
	COPd (declared COP)	-	7.93	8.35	8.58	8.47
	Cdh(degradation coefficient)	-	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
	Pdh (declared heating capacity)	[kW]	5.36	6.44	7.40	10.74
	COPd (declared COP)	-	2.76	3.04	2.96	2.77
	WTOL (Heating water Operation Limit)	[°C]	65	65	65	65

Note :

a) represents the hydraulic module series ;

b) represents the m-thermal tank series ;

Product fiche 1

Heat pump space heating		Outdoor	OLI016HMAA	OLI012H0AA	OLI016H0AA
		Indoor	ILI016MA ILI016SA	ILI016MA ILI016SA	ILI016MA ILI016SA
Indoor unit sound power (*)		dB	43 ^{a)} /44 ^{b)}	43 ^{a)} /42 ^{b)}	43 ^{a)} /44 ^{b)}
Outdoor unit sound power (*)	Average climate low temperature application	dB	68	64	68
	Average climate medium temperature application	dB	68	64	68
Capacity of the back-up heater integrated in the unit	Psup back-up heater (optional)	[kW]	3/6/9	3/6/9	3/6/9
Space heating	Energy efficiency class 35°C (Low temp. app.)	-	A+++	A+++	A+++
Space heating	Energy efficiency class 55°C (Medium temp. app.)	-	A++	A++	A++
Average climate (Design temperature = -10°C)					
Space heating 35°C	Prated (declared heating capacity) @ -10°C	[kW]	15.2	12.0	15.2
	Seasonal space heating efficiency (ηs)	[%]	181.7	189.3	181.6
	Annual energy consumption	[kWh]	6,804	5,153	6,805
Space heating 55°C	Prated (declared heating capacity) @ -10°C	[kW]	13.0	11.6	13.0
	Seasonal space heating efficiency (ηs)	[%]	133.3	135.1	133.2
	Annual energy consumption	[kWh]	7,895	6,928	7,896
Part load conditions space heating average climate low temperature application					
(A) condition (-7°C)	Pdh (declared heating capacity)	[kW]	13.45	10.61	13.45
	COPd (declared COP)	-	2.72	2.88	2.72
	Cdh (degradation coefficient)	-	0.90	0.90	0.90
(B) condition (2°C)	Pdh (declared heating capacity)	[kW]	8.56	6.69	8.56
	COPd (declared COP)	-	4.41	4.65	4.41
	Cdh (degradation coefficient)	-	0.90	0.90	0.90
(C) condition (7°C)	Pdh (declared heating capacity)	[kW]	5.70	4.44	5.70
	COPd (declared COP)	-	6.56	6.62	6.56
	Cdh (degradation coefficient)	-	0.90	0.90	0.90
(D) condition (12°C)	Pdh (declared heating capacity)	[kW]	3.78	3.74	3.78
	COPd (declared COP)	-	8.51	8.47	8.51
	Cdh (degradation coefficient)	-	0.90	0.90	0.90
(E) Tol (temperature operating limit)	Tol (temperature operating limit)	[°C]	-10.00	-10.00	-10.00
	Pdh (declared heating capacity)	[kW]	12.52	10.74	12.52
	COPd (declared COP)	-	2.48	2.77	2.48
	WTOL (Heating water Operation Limit)	[°C]	65	65	65

Note :

a) represents the hydraulic module series ;

b) represents the m-thermal tank series ;

Product fiche 2

Heat pump space heating		Outdoor	OLI006HMAA	OLI008HMAA	OLI010HMAA	OLI012HMAA
		Indoor	ILI006MA ILI010SA	ILI010MA ILI010SA	ILI010MA ILI010SA	ILI016MA ILI016SA
(F) Tbivalent temperature	Tbiv	[°C]	-7.00	-7.00	-7.00	-7.00
	Pdh (declared heating capacity)	[kW]	6.03	7.18	8.10	10.61
	COPd (declared COP)	-	3.09	3.35	3.23	2.88
Supplementary capacity at P_design	Psup (@Tdesignh: -10°C)	[kW]	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]	5.04	5.84	6.78	10.24
	COPd (declared COP)	-	2.17	2.16	2.24	2.01
	Cdh (degradation coefficient)	-	0.90	0.90	0.90	0.90
(B) condition (2°C)	Pdh (declared heating capacity)	[kW]	3.12	3.75	4.28	6.52
	COPd (declared COP)	-	3.51	3.30	3.42	3.44
	Cdh (degradation coefficient)	-	0.90	0.90	0.90	0.90
(C) condition (7°C)	Pdh (declared heating capacity)	[kW]	2.08	2.42	2.77	4.36
	COPd (declared COP)	-	4.54	4.34	4.52	4.59
	Cdh (degradation coefficient)	-	0.90	0.90	0.90	0.90
(D) condition (12°C)	Pdh (declared heating capacity)	[kW]	1.28	1.39	1.58	3.29
	COPd (declared COP)	-	5.59	5.33	5.68	6.05
	Cdh (degradation coefficient)	-	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
	Pdh (declared heating capacity)	[kW]	4.52	4.90	5.38	9.10
	COPd (declared COP)	-	1.91	1.84	1.83	1.79
	WTOL (Heating water Operation Limit)	[°C]	65	65	65	65
(F) Tbivalent temperature	Tbiv	[°C]	-7.00	-7.00	-7.00	-7.00
	Pdh (declared heating capacity)	[kW]	5.04	5.84	6.78	10.24
	COPd (declared COP)	-	2.17	2.16	2.24	2.01
Supplementary capacity at P_design	Psup (@Tdesignh: -10°C)	[kW]	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]	5.6	7.0	7.7	11.4
	Seasonal space heating efficiency (ηs)	[%]	165.3	170.0	169.8	160.2
	Annual energy consumption	[kWh]	3,300	3,976	4,423	6,870

Product fiche 2

Heat pump space heating		Outdoor	OLI016HMAA	OLI012H0AA	OLI016H0AA
		Indoor	ILI016MA ILI016SA	ILI016MA ILI016SA	ILI016MA ILI016SA
(F) Tbivalent temperature	Tbiv	[°C]	-7.00	-7.00	-7.00
	Pdh (declared heating capacity)	[kW]	13.45	10.61	13.45
	COPd (declared COP)	-	2.72	2.88	2.72
Supplementary capacity at P_design	Psup (@Tdesignh: -10°C)	[kW]	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]	11.52	10.24	11.52
	COPd (declared COP)	-	1.99	2.01	1.99
	Cdh (degradation coefficient)	-	0.90	0.90	0.90
(B) condition (2°C)	Pdh (declared heating capacity)	[kW]	7.18	6.52	7.18
	COPd (declared COP)	-	3.34	3.44	3.34
	Cdh (degradation coefficient)	-	0.90	0.90	0.90
(C) condition (7°C)	Pdh (declared heating capacity)	[kW]	4.67	4.36	4.67
	COPd (declared COP)	-	4.61	4.59	4.61
	Cdh (degradation coefficient)	-	0.90	0.90	0.90
(D) condition (12°C)	Pdh (declared heating capacity)	[kW]	3.31	3.29	3.31
	COPd (declared COP)	-	6.07	6.05	6.07
	Cdh (degradation coefficient)	-	0.90	0.90	0.90
(E) Tol (temperature operating limit)	Tol (temperature operating limit)	[°C]	-10.00	-10.00	-10.00
	Pdh (declared heating capacity)	[kW]	10.33	9.10	10.33
	COPd (declared COP)	-	1.80	1.79	1.80
	WTOL (Heating water Operation Limit)	[°C]	65	65	65
(F) Tbivalent temperature	Tbiv	[°C]	-7.00	-7.00	-7.00
	Pdh (declared heating capacity)	[kW]	11.52	10.24	11.52
	COPd (declared COP)	-	1.99	2.01	1.99
Supplementary capacity at P_design	Psup (@Tdesignh: -10°C)	[kW]	2.67	2.50	2.67
Colder climate (Design temperature = -22°C)					
Space heating 35°C	Prated (declared heating capacity) @ -22°C	[kW]	13.7	11.4	13.7
	Seasonal space heating efficiency (ηs)	[%]	157.8	160.2	157.8
	Annual energy consumption	[kWh]	8,431	6,871	8,431

Product fiche 3

Heat pump space heating		Outdoor	OLI006HMAA	OLI008HMAA	OLI010HMAA	OLI012HMAA
		Indoor	ILI006MA ILI010SA	ILI010MA ILI010SA	ILI010MA ILI010SA	ILI016MA ILI016SA
Space heating 55°C	Prated (declared heating capacity) @ -22°C	[kW]	4.3	5.8	6.7	10.3
	Seasonal space heating efficiency (ηs)	[%]	111.1	112.0	116.4	117.8
	Annual energy consumption	[kWh]	3,681	4,950	5,540	8,419
Part load conditions space heating colder climate low temperature application						
(A) condition (-7°C)	Pdh (declared heating capacity)	[kW]	3.42	4.46	4.83	7.05
	COPd (declared COP)	-	3.59	3.66	3.60	3.48
	Cdh (degradation coefficient)	-	0.90	0.90	0.90	0.90
(B) condition (2°C)	Pdh (declared heating capacity)	[kW]	2.06	2.69	2.94	4.67
	COPd (declared COP)	-	5.21	5.20	5.26	4.96
	Cdh (degradation coefficient)	-	0.90	0.90	0.90	0.90
(C) condition (7°C)	Pdh (declared heating capacity)	[kW]	1.46	1.65	1.92	3.14
	COPd (declared COP)	-	6.24	6.53	7.08	6.10
	Cdh (degradation coefficient)	-	0.90	0.90	0.90	0.90
(D) condition (12°C)	Pdh (declared heating capacity)	[kW]	1.44	1.65	1.65	3.57
	COPd (declared COP)	-	7.66	7.96	7.96	7.87
	Cdh (degradation coefficient)	-	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
	Pdh (declared heating capacity)	[kW]	3.48	4.06	4.62	7.01
	COPd (declared COP)	-	1.96	1.95	1.97	1.98
	WTOL (Heating water Operation Limit)	[°C]	65	65	65	65
(F) Tbivalent temperature	Tbiv	[°C]	-15.00	-15.00	-15.00	-15.00
	Pdh (declared heating capacity)	[kW]	4.59	5.69	6.32	9.28
	COPd (declared COP)	-	2.53	2.83	2.64	2.59
Supplementary capacity at P_design	Psup (@Tdesignh: -22°C)	[kW]	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]	2.70	3.86	4.27	6.63
	COPd (declared COP)	-	2.46	2.48	2.54	2.63
	Cdh (degradation coefficient)	-	0.90	0.90	0.90	0.90

Product fiche 3

Heat pump space heating		Outdoor	OLI016HMAA	OLI012H0AA	OLI016H0AA
		Indoor	ILI016MA ILI016SA	ILI016MA ILI016SA	ILI016MA ILI016SA
Space heating 55°C	Prated (declared heating capacity) @ -22°C	[kW]	11.8	10.3	11.8
	Seasonal space heating efficiency (ηs)	[%]	121.8	117.7	121.8
	Annual energy consumption	[kWh]	9,309	8,420	9,310
Part load conditions space heating colder climate low temperature application					
(A) condition (-7°C)	Pdh (declared heating capacity)	[kW]	8.31	7.05	8.31
	COPd (declared COP)	-	3.37	3.48	3.37
	Cdh (degradation coefficient)	-	0.90	0.90	0.90
(B) condition (2°C)	Pdh (declared heating capacity)	[kW]	5.26	4.67	5.26
	COPd (declared COP)	-	4.86	4.96	4.86
	Cdh (degradation coefficient)	-	0.90	0.90	0.90
(C) condition (7°C)	Pdh (declared heating capacity)	[kW]	3.62	3.14	3.62
	COPd (declared COP)	-	6.49	6.10	6.49
	Cdh (degradation coefficient)	-	0.90	0.90	0.90
(D) condition (12°C)	Pdh (declared heating capacity)	[kW]	3.34	3.57	3.34
	COPd (declared COP)	-	7.40	7.87	7.40
	Cdh (degradation coefficient)	-	0.90	0.90	0.90
(E) Tol (temperature operating limit)	Tol (temperature operating limit)	[°C]	-22.00	-22.00	-22.00
	Pdh (declared heating capacity)	[kW]	8.88	7.01	8.88
	COPd (declared COP)	-	1.97	1.98	1.97
	WTOL (Heating water Operation Limit)	[°C]	65	65	65
(F) Tbivalent temperature	Tbiv	[°C]	-15.00	-15.00	-15.00
	Pdh (declared heating capacity)	[kW]	11.22	9.28	11.22
	COPd (declared COP)	-	2.43	2.59	2.43
Supplementary capacity at P_design	Psup (@Tdesignh: -22°C)	[kW]	4.82	4.40	4.82
Part load conditions space heating colder climate medium temperature application					
(A) condition (-7°C)	Pdh (declared heating capacity)	[kW]	7.64	6.63	7.64
	COPd (declared COP)	-	2.65	2.63	2.65
	Cdh (degradation coefficient)	-	0.90	0.90	0.90

Product fiche 4

Heat pump space heating		Outdoor		OLI006HMAA	OLI008HMAA	OLI010HMAA	OLI012HMAA
		Indoor		ILI006MA ILI010SA	ILI010MA ILI010SA	ILI010MA ILI010SA	ILI016MA ILI016SA
(B) condition (2°C)	Pdh (declared heating capacity)	[kW]		1.60	2.21	2.57	4.06
	COPd (declared COP)	-		3.36	3.35	3.51	3.60
	Cdh (degradation coefficient)	-		0.90	0.90	0.90	0.90
(C) condition (7°C)	Pdh (declared heating capacity)	[kW]		1.02	1.44	1.65	2.78
	COPd (declared COP)	-		3.94	4.11	4.37	4.54
	Cdh (degradation coefficient)	-		0.90	0.90	0.90	0.90
(D) condition (12°C)	Pdh (declared heating capacity)	[kW]		1.37	1.46	1.47	3.33
	COPd (declared COP)	-		6.35	5.92	5.96	6.25
	Cdh (degradation coefficient)	-		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
	Pdh (declared heating capacity)	[kW]		2.09	2.80	2.80	4.19
	COPd (declared COP)	-		1.13	1.22	1.22	1.13
	WTOL (Heating water Operation Limit)	[°C]		65	65	65	65
(F) Tbivalent temperature	Tbiv	[°C]		-15.00	-15.00	-15.00	-15.00
	Pdh (declared heating capacity)	[kW]		3.47	4.71	5.47	8.41
	COPd (declared COP)	-		1.86	1.90	2.00	1.84
Supplementary capacity at P_design	Psup (@Tdesignh: -22°C)	[kW]		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]		6.1	8.1	8.6	11.1
	Seasonal space heating efficiency (ηs)	[%]		259.8	276.6	280.5	256.1
	Annual energy consumption	[kWh]		1,244	1,551	1,617	2,292
Space heating 55°C	Prated (declared heating capacity) @ 2°C	[kW]		5.1	8.37	8.6	12.5
	Seasonal space heating efficiency (ηs)	[%]		164.7	176.9	180.3	174.0
	Annual energy consumption	[kWh]		1,640	2,485	2,516	3,776
Part load conditions space heating warmer climate low temperature application							
(B) condition (2°C)	Pdh (declared heating capacity)	[kW]		5.93	7.56	8.44	11.10
	COPd (declared COP)	-		3.91	3.98	3.84	3.59
	Cdh (degradation coefficient)	-		0.90	0.90	0.90	0.90
(C) condition (7°C)	Pdh (declared heating capacity)	[kW]		3.93	5.22	5.52	7.14
	COPd (declared COP)	-		5.89	6.26	6.18	5.87
	Cdh (degradation coefficient)	-		0.90	0.90	0.90	0.90

Product fiche 4

Heat pump space heating		Outdoor		OLI016HMAA	OLI012H0AA	OLI016H0AA
		Indoor		ILI016MA ILI016SA	ILI016MA ILI016SA	ILI016MA ILI016SA
(B) condition (2°C)	Pdh (declared heating capacity)	[kW]		4.42	4.06	4.42
	COPd (declared COP)	-		3.79	3.60	3.79
	Cdh (degradation coefficient)	-		0.90	0.90	0.90
(C) condition (7°C)	Pdh (declared heating capacity)	[kW]		2.97	2.78	2.97
	COPd (declared COP)	-		4.81	4.54	4.81
	Cdh (degradation coefficient)	-		0.90	0.90	0.90
(D) condition (12°C)	Pdh (declared heating capacity)	[kW]		3.43	3.33	3.43
	COPd (declared COP)	-		6.29	6.25	6.29
	Cdh (degradation coefficient)	-		0.90	0.90	0.90
(E) Tol (temperature operating limit)	Tol (temperature operating limit)	[°C]		-22.00	-22.00	-22.00
	Pdh (declared heating capacity)	[kW]		5.21	4.19	5.21
	COPd (declared COP)	-		1.23	1.13	1.23
	WTOL (Heating water Operation Limit)	[°C]		65	65	65
(F) Tbivalent temperature	Tbiv	[°C]		-15.00	-15.00	-15.00
	Pdh (declared heating capacity)	[kW]		9.61	8.41	9.61
	COPd (declared COP)	-		1.86	1.84	1.86
Supplementary capacity at P_design	Psup (@Tdesignh: -22°C)	[kW]		6.59	6.12	6.59
Warmer climate (Design temperature = 2°C)						
Space heating 35°C	Prated (declared heating capacity) @ 2°C	[kW]		13.1	11.1	13.1
	Seasonal space heating efficiency (ηs)	[%]		248.5	255.6	248.1
	Annual energy consumption	[kWh]		2,781	2,296	2,786
Space heating 55°C	Prated (declared heating capacity) @ 2°C	[kW]		14.17	12.5	14.17
	Seasonal space heating efficiency (ηs)	[%]		176.0	173.8	175.8
	Annual energy consumption	[kWh]		4,231	3,780	4,236
Part load conditions space heating warmer climate low temperature application						
(B) condition (2°C)	Pdh (declared heating capacity)	[kW]		13.10	11.10	13.10
	COPd (declared COP)	-		3.35	3.59	3.35
	Cdh (degradation coefficient)	-		0.90	0.90	0.90
(C) condition (7°C)	Pdh (declared heating capacity)	[kW]		8.41	7.14	8.41
	COPd (declared COP)	-		5.36	5.87	5.36
	Cdh (degradation coefficient)	-		0.90	0.90	0.90

Product fiche 5

Heat pump space heating		Outdoor	OLI006HMAA	OLI008HMAA	OLI010HMAA	OLI012HMAA
		Indoor	ILI006MA ILI010SA	ILI010MA ILI010SA	ILI010MA ILI010SA	ILI016MA ILI016SA
(D) condition (12°C)	Pdh (declared heating capacity)	[kW]	1.79	2.62	2.62	3.55
	COPd (declared COP)	-	8.20	9.23	9.04	7.94
	Cdh (degradation coefficient)	-	0.90	0.90	0.90	0.90
(E) Tol (temperature operating limit)	Tol (temperature operating limit)	[°C]	2.00	2.00	2.00	2.00
	Pdh (declared heating capacity)	[kW]	5.93	7.56	8.44	11.10
	COPd (declared COP)	-	3.91	3.98	3.84	3.59
	WTOL (Heating water Operation Limit)	[°C]	65	65	65	65
(F) Tbivalent temperature	Tbiv	[°C]	7.00	7.00	7.00	7.00
	Pdh (declared heating capacity)	[kW]	3.93	5.22	5.52	7.14
	COPd (declared COP)	-	5.89	6.26	6.18	5.87
Supplementary capacity at P_design	Psup (@Tdesignh: 2°C)	[kW]	0.18	0.55	0.14	0.00
Part load conditions space heating warmer climate medium temperature application						
(B) condition (2°C)	Pdh (declared heating capacity)	[kW]	5.02	7.55	8.06	12.07
	COPd (declared COP)	-	2.48	2.59	2.59	2.31
	Cdh (degradation coefficient)	-	0.90	0.90	0.90	0.90
(C) condition (7°C)	Pdh (declared heating capacity)	[kW]	3.31	5.38	5.54	8.04
	COPd (declared COP)	-	3.67	4.01	4.10	3.86
	Cdh (degradation coefficient)	-	0.90	0.90	0.90	0.90
(D) condition (12°C)	Pdh (declared heating capacity)	[kW]	1.59	2.31	2.53	3.75
	COPd (declared COP)	-	5.29	5.55	5.82	5.70
	Cdh (degradation coefficient)	-	0.90	0.90	0.90	0.90
(E) Tol (temperature operating limit)	Tol (temperature operating limit)	[°C]	2.00	2.00	2.00	2.00
	Pdh (declared heating capacity)	[kW]	5.02	7.55	8.06	12.07
	COPd (declared COP)	-	2.48	2.59	2.59	2.31
	WTOL (Heating water Operation Limit)	[°C]	65	65	65	65
(F) Tbivalent temperature	Tbiv	[°C]	7.00	7.00	7.00	7.00
	Pdh (declared heating capacity)	[kW]	3.31	5.38	5.54	8.04
	COPd (declared COP)	-	3.67	4.01	4.10	3.86
Supplementary capacity at P_design	Psup (@Tdesignh: 2°C)	[kW]	0.12	0.82	0.48	0.43

Product fiche 5

Heat pump space heating		Outdoor		OLI016HMAA	OLI012H0AA	OLI016H0AA
		Indoor		ILI016MA ILI016SA	ILI016MA ILI016SA	ILI016MA ILI016SA
(D) condition (12°C)	Pdh (declared heating capacity)	[kW]		3.87	3.55	3.87
	COPd (declared COP)	-		8.11	7.94	8.11
	Cdh (degradation coefficient)	-		0.90	0.90	0.90
(E) Tol (temperature operating limit)	Tol (temperature operating limit)	[°C]		2.00	2.00	2.00
	Pdh (declared heating capacity)	[kW]		13.10	11.10	13.10
	COPd (declared COP)	-		3.35	3.59	3.35
	WTOL (Heating water Operation Limit)	[°C]		65	65	65
(F) Tbivalent temperature	Tbiv	[°C]		7.00	7.00	7.00
	Pdh (declared heating capacity)	[kW]		8.41	7.14	8.41
	COPd (declared COP)	-		5.36	5.87	5.36
Supplementary capacity at P_design	Psup (@Tdesignh: 2°C)	[kW]		0.00	0.00	0.00
Part load conditions space heating warmer climate medium temperature application						
(B) condition (2°C)	Pdh (declared heating capacity)	[kW]		13.38	12.07	13.38
	COPd (declared COP)	-		2.29	2.31	2.29
	Cdh (degradation coefficient)	-		0.90	0.90	0.90
(C) condition (7°C)	Pdh (declared heating capacity)	[kW]		9.11	8.04	9.11
	COPd (declared COP)	-		3.89	3.86	3.89
	Cdh (degradation coefficient)	-		0.90	0.90	0.90
(D) condition (12°C)	Pdh (declared heating capacity)	[kW]		4.06	3.75	4.06
	COPd (declared COP)	-		5.86	5.70	5.86
	Cdh (degradation coefficient)	-		0.90	0.90	0.90
(E) Tol (temperature operating limit)	Tol (temperature operating limit)	[°C]		2.00	2.00	2.00
	Pdh (declared heating capacity)	[kW]		13.38	12.07	13.38
	COPd (declared COP)	-		2.29	2.31	2.29
	WTOL (Heating water Operation Limit)	[°C]		65	65	65
(F) Tbivalent temperature	Tbiv	[°C]		7.00	7.00	7.00
	Pdh (declared heating capacity)	[kW]		9.11	8.04	9.11
	COPd (declared COP)	-		3.89	3.86	3.89
Supplementary capacity at P_design	Psup (@Tdesignh: 2°C)	[kW]		0.79	0.43	0.79

Product fiche 6

Heat pump space heating		Outdoor	OLI006HMAA	OLI008HMAA	OLI010HMAA	OLI012HMAA
		Indoor	ILI006MA ILI010SA	ILI010MA ILI010SA	ILI010MA ILI010SA	ILI016MA ILI016SA
Product description	Air-to-water heat pump	Y/N	Yes	Yes	Yes	Yes
	Water-to-water heat pump	Y/N	No	No	No	No
	Brine-to-water heat pump	Y/N	No	No	No	No
	Low-temperature heat pump	Y/N	No	No	No	No
	Equipped with a supplementary heater	Y/N	Yes	Yes	Yes	Yes
	Heat pump combination heater	Y/N	Yes	Yes	Yes	Yes
Air to water unit	Rated airflow (outdoor)	[m ³ /h]	2770	4030	4030	4060
Brine/water to water unit	Rated water/brine flow (outdoor H/E)	-	/	/	/	/
Other	Capacity control	-	Inverter	Inverter	Inverter	Inverter
	Poff (Power consumption Off mode)	[kW]	0.014	0.014	0.014	0.014
	Pto (Power consumption Thermostat off mode)	[kW]	0.024	0.024	0.024	0.024
	Psb (Power consumption Standby mode)	[kW]	0.014	0.014	0.014	0.014
	Pck (Power crankcase heater mode)	[kW]	0.000	0.000	0.000	0.000
	Qelec (Daily electricity consumption)	[kWh]	/	/	/	/
	Qfuel (Daily fuel consumption)	[kWh]	/	/	/	/

Note:

- ILI***MA : indoor unit without tank and back-up heater

- OLI***SA : indoor unit with 240 L tank and 3 kW back-up heater

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

*Sound power measured according to the EN12102 under conditions of the EN14825.

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

Product fiche 6

Heat pump space heating			Outdoor	OLI016HMAA	OLI012H0AA	OLI016H0AA
			Indoor	ILI016MA ILI016SA	ILI016MA ILI016SA	ILI016MA ILI016SA
Product description	Air-to-water heat pump	Y/N		Yes	Yes	Yes
	Water-to-water heat pump	Y/N		No	No	No
	Brine-to-water heat pump	Y/N		No	No	No
	Low-temperature heat pump	Y/N		No	No	No
	Equipped with a supplementary heater	Y/N		Yes	Yes	Yes
	Heat pump combination heater	Y/N		Yes	Yes	Yes
Air to water unit	Rated airflow (outdoor)	[m ³ /h]		4650	4060	4650
Brine/water to water unit	Rated water/brine flow (outdoor H/E)	-		/	/	/
Other	Capacity control	-		Inverter	Inverter	Inverter
	Poff (Power consumption Off mode)	[kW]		0.014	0.020	0.020
	Pto (Power consumption Thermostat off mode)	[kW]		0.024	0.030	0.030
	Psb (Power consumption Standby mode)	[kW]		0.014	0.020	0.020
	Pck (Power crankcase heater mode)	[kW]		0.000	0.000	0.000
	Qelec (Daily electricity consumption)	[kWh]		/	/	/
	Qfuel (Daily fuel consumption)	[kWh]		/	/	/

Note:

- ILI***MA : indoor unit without tank and back-up heater

- OLI***SA : indoor unit with 240 L tank and 3 kW back-up heater

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

*Sound power measured according to the EN12102 under conditions of the EN14825.

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

Product fiche 7

Heat pump space cooling		Outdoor	OLI006HMAA	OLI008HMAA	OLI010HMAA	OLI012HMAA
		Indoor	ILI006MA ILI010SA	ILI010MA ILI010SA	ILI010MA ILI010SA	ILI016MA ILI016SA
Indoor unit sound power (*)		dB	40	42	42	43
Outdoor unit sound power (*)	Average climate low temperature application	dB	58	60	61	65
	Average climate medium temperature application	dB	58	60	60	64
Space cooling 7°C	Prated (declared cooling capacity) @ 35°C	[kW]	7.0	7.4	8.2	11.6
	Seasonal space cooling efficiency (ηs)	[%]	209.5	230.1	235.3	194.2
	Annual energy consumption	[kWh]	791	762	826	1,412
Space cooling 18°C	Prated (declared cooling capacity) @ 35°C	[kW]	6.55	8.4	10.0	12.0
	Seasonal space cooling efficiency (ηs)	[%]	326.8	354.9	348.8	282.4
	Annual energy consumption	[kWh]	477	563	682	1,009
Part load conditions space cooling: low temperature application@7°C						
(A) condition (35°C)	Pdc (declared cooling capacity)	[kW]	7.00	7.40	8.20	11.60
	EERd (declared EER)	-	3.00	3.38	3.30	2.75
	Cdc(degradation coefficient)	-	0.90	0.90	0.90	0.90
(B) condition (30°C)	Pdc (declared cooling capacity)	[kW]	5.13	5.72	6.68	8.76
	EERd (declared EER)	-	4.00	4.71	4.47	3.93
	Cdc(degradation coefficient)	-	0.90	0.90	0.90	0.90
(C) condition (25°C)	Pdc (declared cooling capacity)	[kW]	3.48	3.62	4.26	5.81
	EERd (declared EER)	-	6.45	6.65	7.02	5.73
	Cdc(degradation coefficient)	-	0.90	0.90	0.90	0.90
(D) condition (20°C)	Pdc (declared cooling capacity)	[kW]	1.53	1.64	1.94	2.63
	EERd (declared EER)	-	7.73	8.55	9.54	6.75
	Cdc(degradation coefficient)	-	0.90	0.90	0.90	0.90

(*)Sound power measured according to the EN12102 under conditions of the EN14825.

Product fiche 7

Heat pump space cooling		Outdoor	OLI016HMAA	OLI012H0AA	OLI016H0AA
		Indoor	ILI016MA ILI016SA	ILI016MA ILI016SA	ILI016MA ILI016SA
Indoor unit sound power (*)		dB	44	43	44
Outdoor unit sound power (*)	Average climate low temperature application	dB	68	65	68
	Average climate medium temperature application	dB	67	64	67
Space cooling 7°C	Prated (declared cooling capacity) @ 35°C	[kW]	14.0	11.6	14.0
	Seasonal space cooling efficiency (η_s)	[%]	184.1	193.0	183.3
	Annual energy consumption	[kWh]	1,796	1,420	1,804
Space cooling 18°C	Prated (declared cooling capacity) @ 35°C	[kW]	14.2	12.0	14.2
	Seasonal space cooling efficiency (η_s)	[%]	266.8	280.1	265.0
	Annual energy consumption	[kWh]	1,263	1,017	1,271
Part load conditions space cooling: low temperature application@7°C					
(A) condition (35°C)	Pdc (declared cooling capacity)	[kW]	14.00	11.60	14.00
	EERd (declared EER)	-	2.45	2.75	2.45
	Cdc(degradation coefficient)	-	0.90	0.90	0.90
(B) condition (30°C)	Pdc (declared cooling capacity)	[kW]	10.68	8.76	10.68
	EERd (declared EER)	-	3.63	3.93	3.63
	Cdc(degradation coefficient)	-	0.90	0.90	0.90
(C) condition (25°C)	Pdc (declared cooling capacity)	[kW]	6.76	5.81	6.76
	EERd (declared EER)	-	5.27	5.73	5.27
	Cdc(degradation coefficient)	-	0.90	0.90	0.90
(D) condition (20°C)	Pdc (declared cooling capacity)	[kW]	3.41	2.63	3.41
	EERd (declared EER)	-	7.29	6.75	7.29
	Cdc(degradation coefficient)	-	0.90	0.90	0.90

(*)Sound power measured according to the EN 12102 under conditions of the EN14825.

Product fiche 8

Heat pump space cooling		Outdoor	OLI006HMAA	OLI008HMAA	OLI010HMAA	OLI012HMAA
		Indoor	ILI006MA ILI010SA	ILI010MA ILI010SA	ILI010MA ILI010SA	ILI016MA ILI016SA
Part load conditions space cooling, medium temperature application@18°C						
(A) condition (35°C)	Pdc (declared cooling capacity)	[kW]	6.55	8.40	10.00	12.00
	EERd (declared EER)	-	4.90	5.05	4.80	4.00
	Cdc(degradation coefficient)	-	0.90	0.90	0.90	0.90
(B) condition (30°C)	Pdc (declared cooling capacity)	[kW]	4.84	6.47	7.71	9.21
	EERd (declared EER)	-	7.16	7.02	6.45	5.50
	Cdc(degradation coefficient)	-	0.90	0.90	0.90	0.90
(C) condition (25°C)	Pdc (declared cooling capacity)	[kW]	3.26	4.31	5.03	5.74
	EERd (declared EER)	-	9.64	10.67	10.36	8.66
	Cdc(degradation coefficient)	-	0.90	0.90	0.90	0.90
(D) condition (20°C)	Pdc (declared cooling capacity)	[kW]	1.41	1.80	2.32	3.33
	EERd (declared EER)	-	11.48	13.61	14.98	10.07
	Cdc(degradation coefficient)	-	0.90	0.90	0.90	0.90
Air to water unit	Rated airflow (outdoor)	[m ³ /h]	2770	4030	4030	4060
Brine/water to water unit	Rated water/brine flow (outdoor H/E)	-	/	/	/	/
Other	Capacity control	-	Inverter	Inverter	Inverter	Inverter
	Poff (Power consumption Off mode)	[kW]	0.014	0.014	0.014	0.014
	Pto (Power consumption Thermostat off mode)	[kW]	0.010	0.010	0.010	0.010
	Psb (Power consumption Standby mode)	[kW]	0.014	0.014	0.014	0.014
	Pck (Power crankcase heater mode)	[kW]	0.000	0.000	0.000	0.000
	Qelec (Daily electricity consumption)	[kWh]	/	/	/	/
	Qfuel (Daily fuel consumption)	[kWh]	/	/	/	/

Product fiche 8

Heat pump space cooling		Outdoor	OLI016HMAA	OLI012H0AA	OLI016H0AA
		Indoor	ILI016MA ILI016SA	ILI016MA ILI016SA	ILI016MA ILI016SA
Part load conditions space cooling: medium temperature application@18°C					
(A) condition (35°C)	Pdc (declared cooling capacity)	[kW]	14.20	12.00	14.20
	EERd (declared EER)	-	3.61	4.00	3.61
	Cdc(degradation coefficient)	-	0.90	0.90	0.90
(B) condition (30°C)	Pdc (declared cooling capacity)	[kW]	11.42	9.21	11.42
	EERd (declared EER)	-	5.14	5.50	5.14
	Cdc(degradation coefficient)	-	0.90	0.90	0.90
(C) condition (25°C)	Pdc (declared cooling capacity)	[kW]	7.27	5.74	7.27
	EERd (declared EER)	-	7.83	8.66	7.83
	Cdc(degradation coefficient)	-	0.90	0.90	0.90
(D) condition (20°C)	Pdc (declared cooling capacity)	[kW]	3.40	3.33	3.40
	EERd (declared EER)	-	10.35	10.07	10.35
	Cdc(degradation coefficient)	-	0.90	0.90	0.90
Air to water unit	Rated airflow (outdoor)	[m ³ /h]	4650	4060	4650
Brine/water to water unit	Rated water/brine flow (outdoor H/E)	-	/	/	/
Other	Capacity control	-	Inverter	Inverter	Inverter
	Poff (Power consumption Off mode)	[kW]	0.014	0.020	0.020
	Pto (Power consumption Thermostat off mode)	[kW]	0.010	0.010	0.010
	Psb (Power consumption Standby mode)	[kW]	0.014	0.020	0.020
	Pck (Power crankcase heater mode)	[kW]	0.000	0.000	0.000
	Qelec (Daily electricity consumption)	[kWh]	/	/	/
	Qfuel (Daily fuel consumption)	[kWh]	/	/	/

Outdoor unit	Indoor unit	Ambient Temperature : 35/24 Water temperature : 23/18			Ambient Temperature : 35/24 Water temperature : 12/7			Ambient Temperature : 7/6 Water temperature : 30/35			Ambient Temperature : 2/1 Water temperature : 30/35		
		Capacity kW	Power input kW	EER	Capacity kW	Power input kW	EER	Capacity kW	Power input kW	COP	Capacity kW	Power input kW	COP
OLI006HMAA	ILI006MA	6.55	1.34	4.90	7.00	2.33	3.00	6.20	1.24	5.00	5.50	1.39	3.95
	ILI010SA	6.55	1.34	4.90	7.00	2.33	3.00	6.20	1.24	5.00	5.50	1.39	3.95
OLI008HMAA	ILI010MA	8.40	1.66	5.05	7.40	2.19	3.38	8.30	1.60	5.20	7.10	1.73	4.10
	ILI010SA	8.40	1.66	5.05	7.40	2.19	3.38	8.30	1.60	5.20	7.10	1.73	4.10
OLI010HMAA	ILI010MA	10.00	2.08	4.80	8.20	2.48	3.30	10.00	2.00	5.00	8.20	2.02	4.05
	ILI010SA	10.00	2.08	4.80	8.20	2.48	3.30	10.00	2.00	5.00	8.20	2.02	4.05
OLI012HMAA	ILI016MA	12.00	3.00	4.00	11.60	4.22	2.75	12.10	2.44	4.95	9.30	2.35	3.95
	ILI016SA	12.00	3.00	4.00	11.60	4.22	2.75	12.10	2.44	4.95	9.30	2.35	3.95
OLI012H0AA	ILI016MA	12.00	3.00	4.00	11.60	4.22	2.75	12.10	2.44	4.95	9.30	2.35	3.95
	ILI016SA	12.00	3.00	4.00	11.60	4.22	2.75	12.10	2.44	4.95	9.30	2.35	3.95
OLI016HMAA	ILI016MA	14.20	3.94	3.61	14.00	5.71	2.45	16.00	3.56	4.50	13.00	3.71	3.50
	ILI016SA	14.20	3.94	3.61	14.00	5.71	2.45	16.00	3.56	4.50	13.00	3.71	3.50
OLI016H0AA	ILI016MA	14.20	3.94	3.61	14.00	5.71	2.45	16.00	3.56	4.50	13.00	3.71	3.50
	ILI016SA	14.20	3.94	3.61	14.00	5.71	2.45	16.00	3.56	4.50	13.00	3.71	3.50

Outdoor unit	Indoor unit	Ambient Temperature : -7/-8 Water temperature : 30/35			Ambient Temperature : 7/6 Water temperature : 40/45			Ambient Temperature : 2/1 Water temperature : 40/45			Ambient Temperature : -7/-8 Water temperature : 40/45		
		Capacity kW	Power input kW	COP	Capacity kW	Power input kW	COP	Capacity kW	Power input kW	COP	Capacity kW	Power input kW	COP
OLI006HMAA	ILI006MA	6.10	2.00	3.05	6.35	1.69	3.75	5.80	1.93	3.00	5.40	2.25	2.40
	ILI010SA	6.10	2.00	3.05	6.35	1.69	3.75	5.80	1.93	3.00	5.40	2.25	2.40
OLI008HMAA													
	ILI010MA	7.10	2.18	3.25	8.20	2.08	3.95	7.40	2.28	3.25	6.60	2.59	2.55
	ILI010SA	7.10	2.18	3.25	8.20	2.08	3.95	7.40	2.28	3.25	6.60	2.59	2.55
OLI010HMAA	ILI010MA	8.25	2.62	3.15	10.00	2.63	3.80	7.85	2.45	3.20	7.35	2.88	2.55
	ILI010SA	8.25	2.62	3.15	10.00	2.63	3.80	7.85	2.45	3.20	7.35	2.88	2.55
OLI012HMAA	ILI016MA	10.00	3.33	3.00	12.30	3.24	3.80	10.70	3.57	3.00	10.20	4.25	2.40
	ILI016SA	10.00	3.33	3.00	12.30	3.24	3.80	10.70	3.57	3.00	10.20	4.25	2.40
OLI012H0AA	ILI016MA	10.00	3.33	3.00	12.30	3.24	3.80	10.70	3.57	3.00	10.20	4.25	2.40
	ILI016SA	10.00	3.33	3.00	12.30	3.24	3.80	10.70	3.57	3.00	10.20	4.25	2.40
OLI016HMAA	ILI016MA	13.30	4.93	2.70	16.00	4.44	3.60	12.80	4.49	2.85	12.90	5.78	2.23
	ILI016SA	13.30	4.93	2.70	16.00	4.44	3.60	12.80	4.49	2.85	12.90	5.78	2.23
OLI016H0AA	ILI016MA	13.30	4.93	2.70	16.00	4.44	3.60	12.80	4.49	2.85	12.90	5.78	2.23
	ILI016SA	13.30	4.93	2.70	16.00	4.44	3.60	12.80	4.49	2.85	12.90	5.78	2.23

Outdoor unit	Indoor unit	Ambient Temperature : 7/6 Water temperature : 47/55			Ambient Temperature : 2/1 Water temperature : 47/55			Ambient Temperature : -7/-8 Water temperature : 47/55		
		Capacity kW	Power input kW	COP	Capacity kW	Power input kW	COP	Capacity kW	Power input kW	COP
OLI006HMAA	ILI006MA	6.00	2.00	3.00	5.65	2.31	2.45	5.15	2.58	2.00
	ILI010SA	6.00	2.00	3.00	5.65	2.31	2.45	5.15	2.58	2.00
OLI008HMAA	ILI010MA	7.50	2.36	3.18	7.10	2.73	2.60	6.15	3.00	2.05
	ILI010SA	7.50	2.36	3.18	7.10	2.73	2.60	6.15	3.00	2.05
OLI010HMAA	ILI010MA	9.50	3.06	3.10	8.10	3.16	2.56	6.85	3.43	2.00
	ILI010SA	9.50	3.06	3.10	8.10	3.16	2.56	6.85	3.43	2.00
OLI012HMAA	ILI016MA	12.00	3.87	3.10	11.40	4.47	2.55	10.00	4.88	2.05
	ILI016SA	12.00	3.87	3.10	11.40	4.47	2.55	10.00	4.88	2.05
OLI012H0AA	ILI016MA	12.00	3.87	3.10	11.40	4.47	2.55	10.00	4.88	2.05
	ILI016SA	12.00	3.87	3.10	11.40	4.47	2.55	10.00	4.88	2.05
OLI016HMAA	ILI016MA	16.00	5.52	2.90	13.40	5.58	2.40	12.50	6.19	2.02
	ILI016SA	16.00	5.52	2.90	13.40	5.58	2.40	12.50	6.19	2.02
OLI016H0AA	ILI016MA	16.00	5.52	2.90	13.40	5.58	2.40	12.50	6.19	2.02
	ILI016SA	16.00	5.52	2.90	13.40	5.58	2.40	12.50	6.19	2.02

ERP Information

Fan Types	Axial fan	
Directive (or Standard) for Regulation	ERP Directive 2009/125/EC COMMISSION REGULATION (EU) No 327/2011	
Model Name	WZDK170-38G-1	Rev. _____
Prepare by		

Specified Information of Fan:

No.	Information Item	Comment
1	$\eta_{target} =$	29.1%
2	Overall efficiency (η_e) =	33.1%
3	Pass or not (Criteria: $\eta_e \geq \eta_{target}$)	Pass
4	Measurement category (A-D)	A
5	Efficiency category (static or total)	Static
6	Efficiency grade at optimum energy efficiency point	N =43.9
7	VSD is integrated within the fan	YES
8	Year of Manufacture	Ref. to the Unit Nameplate
9	Manufacturer's name and place of manufacture	Ref. to the Unit Nameplate
10.1	Rated motor power input(s) (kW), at optimum energy efficiency	0.190kw
10.2	Rated motor flow rate(s) at optimum energy efficiency	1.368m ³ /s
10.3	Rated motor pressure(s) at optimum energy efficiency	40Pa
11	Rotations per minute (R.P.M)at the optimum energy efficiency point	800r/min
12	Specific ratio	1.001
13	Information relevant for facilitating disassembly, recycling or disposal at end-of-life	all materials can be recycled
14	Information relevant to minimize impact on the environment and ensure optimal life expectancy as regards installation, use and maintenance of the fan	For installation, the clearance of 500 mm shall be kept from inlet
15	Description of additional items used when determining the fan energy efficiency,such as ducts, that are not described in the measurement category and not supplied with the fan.	Measure ment category A, fan is free inlet and outlet conditions
16	Motor manufacturer	NIDEC SHIBAURA (ZHEJIANG) CORP.

ERP Information

Fan Types	Axial fan	
Directive (or Standard) for Regulation	ERP Directive 2009/125/EC COMMISSION REGULATION (EU) No 327/2011	
Model Name	WZDK170-38G-1	Rev.
Prepare by		

Specified Information of Fan:

No.	Information Item	Comment
1	$\eta_{target} =$	29.1%
2	Overall efficiency (η_e) =	33.7%
3	Pass or not (Criteria: $\eta_e \geq \eta_{target}$)	Pass
4	Measurement category (A-D)	A
5	Efficiency category (static or total)	Static
6	Efficiency grade at optimum energy efficiency point	N =44.6
7	VSD is integrated within the fan	YES
8	Year of Manufacture	Ref. to the Unit Nameplate
9	Manufacturer's name and place of manufacture	Ref. to the Unit Nameplate
10.1	Rated motor power input(s) (kW), at optimum energy efficiency	0.186kw
10.2	Rated motor flow rate(s) at optimum energy efficiency	1.37 m ³ /s
10.3	Rated motor pressure(s) at optimum energy efficiency	40Pa
11	Rotations per minute (R.P.M)at the optimum energy efficiency point	800r/min
12	Specific ratio	1.001
13	Information relevant for facilitating disassembly, recycling or disposal at end-of-life	all materials can be recycled
14	Information relevant to minimize impact on the environment and ensure optimal life expectancy as regards installation, use and maintenance of the fan	For installation, the clearance of 500 mm shall be kept from inlet
15	Description of additional items used when determining the fan energy efficiency, such as ducts, that are not described in the measurement category and not supplied with the fan.	Measurement category A, fan is free inlet and outlet conditions
16	Motor manufacturer	GUANGDONG WELLING MOTOR MANUFACTURING CO.,LTD.

ERP Information

Fan Types	Axial fan	
Directive (or Standard) for Regulation	ERP Directive 2009/125/EC COMMISSION REGULATION (EU) No 327/2011	
Model Name	WZDK170-38G-1	Rev.
Prepare by		

Specified Information of Fan:

No.	Information Item	Comment
1	$\eta_{target} =$	29.0%
2	Overall efficiency (η_e) =	34.6%
3	Pass or not (Criteria: $\eta_e \geq \eta_{target}$)	Pass
4	Measurement category (A-D)	A
5	Efficiency category (static or total)	Static
6	Efficiency grade at optimum energy efficiency point	N =4.57
7	VSD is integrated within the fan	YES
8	Year of Manufacture	Ref. to the Unit Nameplate
9	Manufacturer's name and place of manufacture	Ref. to the Unit Nameplate
10.1	Rated motor power input(s) (kW), at optimum energy efficiency	0.180kw
10.2	Rated motor flow rate(s) at optimum energy efficiency	1.378m ³ /s
10.3	Rated motor pressure(s) at optimum energy efficiency	40Pa
11	Rotations per minute (R.P.M)at the optimum energy efficiency point	800r/min
12	Specific ratio	1.001
13	Information relevant for facilitating disassembly, recycling or disposal at end-of-life	all materials can be recycled
14	Information relevant to minimize impact on the environment and ensure optimal life expectancy as regards installation, use and maintenance of the fan	For installation, the clearance of 500 mm shall be kept from inlet
15	Description of additional items used when determining the fan energy efficiency, such as ducts, that are not described in the measurement category and not supplied with the fan.	Measurement category A, fan is free inlet and outlet conditions
16	Motor manufacturer	Panasonic Motor (HangZhou) CO.,LTD

