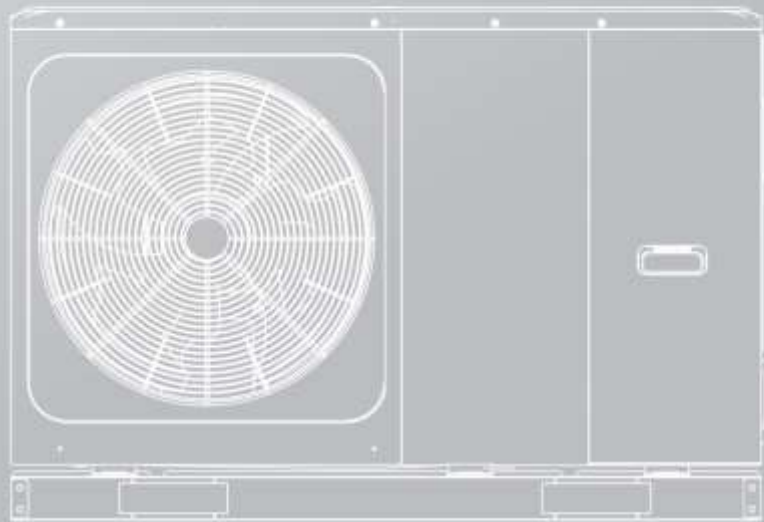


TECHNICAL DATA MANUAL

MLI Heat Pump



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.

DATI PER IL CALCOLO SECONDO UNI/TS 11300 parte 4

GALLETTI S.p.A. dichiara che i dati da utilizzare per il calcolo secondo la norma UNI/TS 11300 parte 4 del rendimento di generazione delle pompe di calore di sua produzione sono quelli indicati nelle tabelle seguenti.

Termini e definizioni

$T_{designh}$ = temperatura di progetto del clima Average come definito dalla norma EN 14825 $T_{mandata}$ = temperatura acqua calda inviata all'impianto (temperatura del pozzo caldo) T_e = temperatura dell'aria esterna

A, B, C, D = le quattro condizioni di temperatura aria esterna (T_e) come definite dalla norma EN 14825 DC (potenza a pieno carico) = potenza a pieno carico riferita alla temperatura aria esterna indicata PLR = part load ratio, fattore di carico in base alla temperatura aria esterna

CR = fattore di carico della pompa di calore

P = potenza richiesta dall'impianto

COP_{DC} (pieno carico) = COP a pieno carico riferito alla temperatura aria esterna indicata

COP_{PL} (carico parziale) = COP a carico CR e riferito alla temperatura aria esterna indicata

f_{COP} = fattore di correzione del COP e definito come: COP_{PL} (carico parziale) / COP_{DC} (pieno carico)

P_{dc} = Pompa di Calore

ACS = Acqua Calda Sanitaria

I dati contenuti nel presente documento possono essere aggiornati dal costruttore in caso di aggiornamenti di gamma senza obbligo di preavviso. Nel caso in cui l'unità di vostro interesse non fosse compresa nel presente elenco vi preghiamo di contattare l'agente di zona.

La presente dichiarazione è rilasciata per tutti gli usi consentiti dalla legge.

Bentivoglio (BO), 15/02/22

MLI006HMAA

Dati per calcolo COP _{PL} con Tmandata=35°C	Tdesignh	A	B	C	D	unità di misura
Te	-10	-7	2	7	12	°C
PLR	1	0,88	0,54	0,35	0,15	-
DC (potenza a pieno carico)	4,51	6,00	5,50	6,35	6,41	kW
CR	1,50	1,00	0,66	0,37	0,16	-
P	6,78	6,00	3,65	2,35	1,04	kW
COP _{DC} (pieno carico)	2,66	3,00	3,90	4,95	5,04	-
COP _{PL} (carico parziale)	2,74	3,06	3,98	5,23	4,26	-
f _{COP}	1,03	1,02	1,02	1,06	0,85	-

Dati di Potenza e COP a pieno carico	Potenza termica [kW] Φ _{H,HP out}			COP		
	Tmandata 35°C	Tmandata 45°C	Tmandata 55°C	Tmandata 35°C	Tmandata 45°C	Tmandata 55°C
Te						
-7	6,00	5,40	5,15	3,00	2,40	2,00
2	5,50	5,80	5,65	3,90	3,00	2,45
7	6,35	6,30	6,00	4,95	3,70	2,95
12	6,41	6,77	6,82	5,04	4,03	3,23

Pdc per ACS - Dati di Potenza e COP a pieno carico	Potenza termica [kW] Φ _{H,HP out}	COP
Te	Tmandata 55°C	Tmandata 55°C
7	6,00	2,95
15	6,15	3,42
20	6,03	3,76
35	6,02	4,65

MLI008HMAA

Dati per calcolo COP _{PL} con Tmandata=35°C	Tdesignh	A	B	C	D	unità di misura
Te	-10	-7	2	7	12	°C
PLR	1	0,88	0,54	0,35	0,15	-
DC (potenza a pieno carico)	6,25	7,00	7,10	8,40	7,98	kW
CR	1,27	1,00	0,60	0,33	0,15	-
P	7,91	7,00	4,26	2,74	1,22	kW
COP _{DC} (pieno carico)	3,26	3,20	4,10	5,15	5,90	-
COP _{PL} (carico parziale)	3,35	3,44	4,27	5,42	4,87	-
f _{COP}	1,03	1,08	1,04	1,05	0,83	-

Dati di Potenza e COP a pieno carico	Potenza termica [kW] Φ _{H,HP out}			COP		
	Tmandata 35°C	Tmandata 45°C	Tmandata 55°C	Tmandata 35°C	Tmandata 45°C	Tmandata 55°C
Te						
-7	7,00	6,60	6,15	3,20	2,55	2,05
2	7,10	7,40	7,10	4,10	3,25	2,60
7	8,40	8,30	7,50	5,15	3,85	3,18
12	7,98	8,51	7,21	5,90	4,19	3,50

Pdc per ACS - Dati di Potenza e COP a pieno carico	Potenza termica [kW] Φ _{H,HP out}	COP
Te	Tmandata 55°C	Tmandata 55°C
7	7,50	3,18
15	7,33	3,68
20	7,47	4,14
35	7,48	5,03

MLI010HMAA

Dati per calcolo COP _{PL} con Tmandata=35°C	Tdesignh	A	B	C	D	unità di misura
Te	-10	-7	2	7	12	°C
PLR	1	0,88	0,54	0,35	0,15	-
DC (potenza a pieno carico)	6,96	8,00	8,20	10,00	8,97	kW
CR	1,30	1,00	0,59	0,31	0,16	-
P	9,04	8,00	4,87	3,13	1,39	kW
COP _{DC} (pieno carico)	3,08	3,05	4,00	4,95	5,66	-
COP _{PL} (carico parziale)	3,17	3,37	4,22	5,28	5,11	-
f _{COP}	1,03	1,10	1,06	1,07	0,90	-

Dati di Potenza e COP a pieno carico	Potenza termica [kW] $\Phi_{H,HP out}$			COP		
	Tmandata 35°C	Tmandata 45°C	Tmandata 55°C	Tmandata 35°C	Tmandata 45°C	Tmandata 55°C
Te						
-7	8,00	7,35	6,85	3,05	2,55	2,00
2	8,20	7,85	8,10	4,00	3,20	2,56
7	10,00	10,00	9,50	4,95	3,75	3,10
12	8,97	9,05	8,43	5,66	3,98	3,35

Pdc per ACS - Dati di Potenza e COP a pieno carico	Potenza termica [kW] $\Phi_{H,HP out}$	COP
Te	Tmandata 55°C	Tmandata 55°C
7	9,50	3,10
15	8,60	3,67
20	8,73	4,05
35	8,63	5,29

MLI012HMAA

Dati per calcolo COP _{PL} con Tmandata=35°C	Tdesignh	A	B	C	D	unità di misura
Te	-10	-7	2	7	12	°C
PLR	1	0,88	0,54	0,35	0,15	-
DC (potenza a pieno carico)	8,14	10,00	9,20	12,10	10,93	kW
CR	1,39	1,00	0,66	0,32	0,16	-
P	11,30	10,00	6,09	3,91	1,74	kW
COP _{DC} (pieno carico)	2,66	3,00	3,90	4,95	5,69	-
COP _{PL} (carico parziale)	2,74	3,14	4,35	5,16	4,90	-
f _{COP}	1,03	1,05	1,12	1,04	0,86	-

Dati di Potenza e COP a pieno carico	Potenza termica [kW] $\Phi_{H,HP out}$			COP		
	Tmandata 35°C	Tmandata 45°C	Tmandata 55°C	Tmandata 35°C	Tmandata 45°C	Tmandata 55°C
Te						
-7	10,00	10,20	9,80	3,00	2,40	2,05
2	9,20	10,60	11,30	3,90	3,00	2,50
7	12,10	12,30	11,90	4,95	3,70	3,05
12	10,93	11,03	9,57	5,69	4,20	3,16

Pdc per ACS - Dati di Potenza e COP a pieno carico	Potenza termica [kW] $\Phi_{H,HP out}$	COP
Te	Tmandata 55°C	Tmandata 55°C
7	11,90	3,05
15	9,12	3,20
20	9,00	3,61
35	10,01	4,86

MLI016HMAA

Dati per calcolo COP _{PL} con Tmandata=35°C	Tdesignh	A	B	C	D	unità di misura
Te	-10	-7	2	7	12	°C
PLR	1	0,88	0,54	0,35	0,15	-
DC (potenza a pieno carico)	10,30	13,10	13,00	15,90	13,88	kW
CR	1,44	1,00	0,61	0,32	0,16	-
P	14,81	13,10	7,97	5,13	2,28	kW
COP _{DC} (pieno carico)	2,61	2,70	3,45	4,50	5,48	-
COP _{PL} (carico parziale)	2,68	2,97	3,90	4,95	4,77	-
f _{COP}	1,03	1,10	1,13	1,10	0,87	-

Dati di Potenza e COP a pieno carico	Potenza termica [kW] $\Phi_{H,HP out}$			COP		
	Tmandata 35°C	Tmandata 45°C	Tmandata 55°C	Tmandata 35°C	Tmandata 45°C	Tmandata 55°C
Te						
-7	13,10	12,80	12,50	2,70	2,25	2,00
2	13,00	12,70	13,30	3,45	2,85	2,40
7	15,90	16,00	16,00	4,50	3,50	2,85
12	13,88	13,61	12,53	5,48	4,17	3,39

Pdc per ACS - Dati di Potenza e COP a pieno carico	Potenza termica [kW] $\Phi_{H,HP out}$	COP
Te	Tmandata 55°C	Tmandata 55°C
7	16,00	2,85
15	13,22	3,61
20	11,19	3,68
35	10,38	4,57

MLI016HOAA

Dati per calcolo COP _{PL} con Tmandata=35°C	Tdesignh	A	B	C	D	unità di misura
Te	-10	-7	2	7	12	°C
PLR	1	0,88	0,54	0,35	0,15	-
DC (potenza a pieno carico)	10,30	13,10	13,00	15,90	13,88	kW
CR	1,44	1,00	0,61	0,32	0,16	-
P	14,81	13,10	7,97	5,13	2,28	kW
COP _{DC} (pieno carico)	2,61	2,70	3,45	4,50	5,48	-
COP _{PL} (carico parziale)	2,68	2,97	3,90	4,95	4,77	-
f _{COP}	1,03	1,10	1,13	1,10	0,87	-

Dati di Potenza e COP a pieno carico	Potenza termica [kW] $\Phi_{H,HP out}$			COP		
	Tmandata 35°C	Tmandata 45°C	Tmandata 55°C	Tmandata 35°C	Tmandata 45°C	Tmandata 55°C
Te						
-7	13,10	12,80	12,50	2,70	2,25	2,00
2	13,00	12,70	13,30	3,45	2,85	2,40
7	15,90	16,00	16,00	4,50	3,50	2,85
12	13,88	13,61	12,53	5,48	4,17	3,39

Pdc per ACS - Dati di Potenza e COP a pieno carico	Potenza termica [kW] $\Phi_{H,HP out}$	COP
Te	Tmandata 55°C	Tmandata 55°C
7	16,00	2,85
15	13,22	3,61
20	11,19	3,68
35	10,38	4,57

Model	For medium - temperature application										
	Energy efficiency class	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	kW	%	kWh	kW	%	kWh	kW	%	kWh
MLI006HMAA	A++	58	5.7	137.9	3345	4.3	111.1	3681	5.1	164.7	1640
MLI008HMAA	A++	59	6.6	131.5	4056	5.8	112.0	4950	7.6	175.8	2259
MLI010HMAA	A++	60	7.7	135.6	4539	6.7	116.4	5540	8.6	180.3	2516
MLI012HMAA	A++	65	11.6	135.1	6927	10.3	117.8	8419	12.5	174.0	3776
MLI016HMAA	A++	68	13.0	133.3	7895	11.8	121.8	9309	13.8	176.1	4112
MLI016H0AA	A++	68	13.0	133.2	7896	11.8	121.8	9310	13.8	175.9	4116

Unit type explanation: MLI0**H*AA, without back-up heater

Model	For low - temperature application										
	Energy efficiency class	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	kW	%	kWh	kW	%	kWh	kW	%	kWh
MLI006HMAA	A+++	58	6.8	195.0	2845	5.6	165.3	3300	6.1	259.8	1244
MLI008HMAA	A+++	59	8.1	205.6	3218	7.0	170.0	3976	8.1	276.6	1551
MLI010HMAA	A+++	60	9.2	204.8	3644	7.7	169.8	4423	8.6	280.5	1617
MLI012HMAA	A+++	65	12.0	189.4	5152	11.4	160.2	6870	11.1	256.1	2292
MLI016HMAA	A+++	68	15.2	181.7	6804	13.7	157.8	8431	13.1	248.5	2781
MLI016H0AA	A+++	68	15.2	181.6	6805	13.7	157.8	8431	13.1	248.1	2786

Unit type explanation: MLI0**H*AA , without back-up heater

Product fiche 2

Heat pump space heater		Model	MLI006HMAA	MLI008HMAA	MLI010HMAA	MLI012HMAA	MLI016HMAA	MLI016H0AA
(E) Tol (temperature operating limit)	Tol (temperature operating limit)	[°C]	-10.00	-10.00	-10.00	-10.00	-10.00	-10.00
	Pdh (declared heating capacity)	[kW]	5.36	6.44	7.40	10.74	12.52	12.52
	COPd (declared COP)	-	2.76	3.04	2.96	2.77	2.48	2.48
	WTOL (Heating water Operation Limit)	[°C]	60.00	60.00	60.00	60.00	60.00	60.00
(F) Tbivalent temperature	Tblv	[°C]	-7.00	-7.00	-7.00	-7.00	-7.00	-7.00
	Pdh (declared heating capacity)	[kW]	6.03	7.18	8.10	10.61	13.45	13.45
	COPd (declared COP)	-	3.09	3.35	3.23	2.88	2.72	2.72
Supplementary capacity at P_design	Psup (@Tdesignh: -10°C)	[kW]	1.45	1.68	1.76	1.26	2.68	2.68
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	11.52	11.52
	COPd (declared COP)	-	2.17	2.16	2.24	2.01	1.99	1.99
	Cdh(degradation coefficient)	-	0.90	0.90	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	7.18	7.18
	COPd (declared COP)	-	3.51	3.30	3.42	3.44	3.34	3.34
	Cdh(degradation coefficient)	-	0.90	0.90	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	4.67	4.67
	COPd (declared COP)	-	4.54	4.34	4.52	4.59	4.61	4.61
	Cdh(degradation coefficient)	-	0.90	0.90	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	3.31	3.31
	COPd (declared COP)	-	5.59	5.33	5.68	6.05	6.07	6.07
	Cdh(degradation coefficient)	-	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
	Pdh (declared heating capacity)	[kW]	4.52	4.90	5.38	9.10	10.33	10.33
	COPd (declared COP)	-	1.91	1.84	1.83	1.79	1.80	1.80
	WTOL (Heating water Operation Limit)	[°C]	60.00	60.00	60.00	60.00	60.00	60.00
(F) Tbivalent temperature	Tblv	[°C]	-7.00	-7.00	-7.00	-7.00	-7.00	-7.00
	Pdh (declared heating capacity)	[kW]	5.04	5.84	6.78	10.24	11.52	11.52
	COPd (declared COP)	-	2.17	2.16	2.24	2.01	1.99	1.99
Supplementary capacity at P_design	Psup (@Tdesignh: -10°C)	[kW]	1.18	1.69	2.28	2.50	2.67	2.67

Product fiche 3

Heat pump space heater		Model	MLI006HMAA	MLI008HMAA	MLI010HMAA	MLI012HMAA	MLI016HMAA	MLI016H0AA
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	13.7	13.7
	Seasonal space heating efficiency (ηs)	[%]	165.3	170.0	169.8	160.2	157.8	157.8
	Annual energy consumption	[kWh]	3,300	3,976	4,423	6,870	8,431	8,431
Space heating 55°C	Prated (declared heating capacity) @ -22°C	[kW]	4.3	5.8	6.7	10.3	11.8	11.8
	Seasonal space heating efficiency (ηs)	[%]	111.1	112.1	116.4	117.8	121.8	121.8
	Annual energy consumption	[kWh]	3,681	4,950	5,540	8,419	9,309	9,310
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	8.31	8.31
	COPd (declared COP)	-	3.59	3.66	3.60	3.48	3.37	3.37
	Cdh(degradation coefficient)	-	0.90	0.90	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	5.26	5.26
	COPd (declared COP)	-	5.21	5.20	5.26	4.96	4.86	4.86
	Cdh(degradation coefficient)	-	0.90	0.90	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	3.62	3.62
	COPd (declared COP)	-	6.24	6.53	7.08	6.10	6.49	6.49
	Cdh(degradation coefficient)	-	0.90	0.90	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	3.34	3.34
	COPd (declared COP)	-	7.66	7.96	7.96	7.87	7.40	7.40
	Cdh(degradation coefficient)	-	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
	Pdh (declared heating capacity)	[kW]	3.48	4.06	4.62	7.01	8.88	8.88
	COPd (declared COP)	-	1.96	1.95	1.97	1.98	1.97	1.97
	WTOL (Heating water Operation Limit)	[°C]	51.00	51.00	51.00	51.00	51.00	51.00
(F) Tbivalent temperature	Tblv	[°C]	-15.00	-15.00	-15.00	-15.00	-15.00	-15.00
	Pdh (declared heating capacity)	[kW]	4.59	5.69	6.32	9.28	11.22	11.22
	COPd (declared COP)	-	2.53	2.83	2.64	2.59	2.43	2.43
Supplementary capacity at P_design	Psup (@Tdesignh: -22°C)	[kW]	2.15	2.91	3.08	4.40	4.82	4.82

Product fiche 4

Heat pump space heater		Model	MLI006HMAA	MLI008HMAA	MLI010HMAA	MLI012HMAA	MLI016HMAA	MLI016HOAA
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	7.64	7.64
	COPd (declared COP)	-	2.46	2.48	2.54	2.63	2.65	2.65
	Cdh(degradation coefficient)	-	0.90	0.90	0.90	0.90	0.90	0.90
(B) condition (2°C)	Pdh (declared heating capacity)	[kW]	1.60	2.21	2.57	4.06	4.42	4.42
	COPd (declared COP)	-	3.36	3.35	3.51	3.60	3.79	3.79
	Cdh(degradation coefficient)	-	0.90	0.90	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	2.97	2.97
	COPd (declared COP)	-	3.94	4.11	4.37	4.54	4.81	4.81
	Cdh(degradation coefficient)	-	0.90	0.90	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	3.43	3.43
	COPd (declared COP)	-	6.35	5.92	5.96	6.25	6.29	6.29
	Cdh(degradation coefficient)	-	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
	Pdh (declared heating capacity)	[kW]	2.09	2.80	2.80	4.19	5.21	5.21
	COPd (declared COP)	-	1.13	1.22	1.22	1.13	1.23	1.23
	WTOL (Heating water Operation Limit)	[°C]	51.00	51.00	51.00	51.00	51.00	51.00
(F) Tivalent temperature	Tblv	[°C]	-15.00	-15.00	-15.00	-15.00	-15.00	-15.00
	Pdh (declared heating capacity)	[kW]	3.47	4.71	5.47	8.41	9.61	9.61
	COPd (declared COP)	-	1.86	1.90	2.00	1.84	1.86	1.86
Supplementary capacity at P_design	Psup (@Tdesignh: -22°C)	[kW]	2.17	2.97	3.91	6.12	6.59	6.59
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	13.1	13.1
	Seasonal space heating efficiency (ηs)	[%]	259.8	276.6	280.5	256.1	248.5	248.1
	Annual energy consumption	[kWh]	1,244	1,551	1,617	2,292	2,781	2,786
Space heating 55°C	Prated (declared heating capacity) @ 2°C	[kW]	5.1	7.6	8.6	12.5	13.8	13.8
	Seasonal space heating efficiency (ηs)	[%]	164.7	175.8	180.3	174.0	176.1	175.9
	Annual energy consumption	[kWh]	1,640	2,259	2,516	3,776	4,112	4,116

Product fiche 6

Heat pump space heater		Model	MLI006HMAA	MLI008HMAA	MLI010HMAA	MLI012HMAA	MLI016HMAA	MLI016H0AA
(E) Tol (temperature operating limit)	Tol (temperature operating limit)	[°C]	2.00	2.00	2.00	2.00	2.00	2.00
	Pdh (declared heating capacity)	[kW]	5.02	7.55	8.06	12.07	13.38	13.38
	COPd (declared COP)	-	2.48	2.59	2.59	2.31	2.29	2.29
	WTOL (Heating water Operation Limit)	[°C]	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
	Pdh (declared heating capacity)	[kW]	3.31	4.86	5.54	8.04	8.86	8.86
	COPd (declared COP)	-	3.67	3.92	4.10	3.86	3.84	3.84
Supplementary capacity at P_design	Psup (@Tdesignh: 2°C)	[kW]	0.12	0.00	0.48	0.43	0.42	0.42
0								
Product description	Air-to-water heat pump	Y/N	Yes	Yes	Yes	Yes	Yes	Yes
	Water-to-water heat pump	Y/N	No	No	No	No	No	No
	Brine-to-water heat pump	Y/N	No	No	No	No	No	No
	Low-temperature heat pump	Y/N	No	No	No	No	No	No
	Equipped with a supplementary heater	Y/N	Yes	Yes	Yes	Yes	Yes	Yes
	Heat pump combination heater	Y/N	No	No	No	No	No	No
Air to water unit	Rated airflow	[m³/h]	2770	4030	4030	4060	4650	4650
Brine/water to water unit	Rated water/brine flow (outdoor H/E)		/	/	/	/	/	/
Other	Capacity control	-	Inverter	Inverter	Inverter	Inverter	Inverter	Inverter
	Poff (Power consumption Off mode)	[kW]	0.014	0.014	0.014	0.014	0.014	0.02
	Pto (Power consumption Thermostat off mode)	[kW]	0.024	0.024	0.024	0.024	0.024	0.030
	Psb (Power consumption Standby mode)	[kW]	0.014	0.014	0.014	0.014	0.014	0.02
	PCK (Power crankcase heater model)	[kW]	0.000	0.000	0.000	0.000	0.000	0.000
	Qelec (Daily electricity consumption)	[kWh]	/	/	/	/	/	/
	Qfuel (Daily fuel consumption)	[kWh]	/	/	/	/	/	/

Technical parameters

Model(s):	MLI006HMAA
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	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 _{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}	1.18	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}	-58	dB
Annual energy consumption	Q _{HE}	3345	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				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: GD Midea Heating & Ventilating Equipment Co. Ltd
(Penglai industry road, Beijiao, Shunde, Foshan, Guangdong, P.R China)

(*) 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):	MLI006HMAA		
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 Performance			
Item	Symbol	Value	Unit
Rated heat output (*)	Prated	4.3	kW
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = -7°C	Pdh	2.70	kW
Tj = 2°C	Pdh	1.60	kW
Tj = 7°C	Pdh	1.02	kW
Tj = 12°C	Pdh	1.37	kW
Tj = bivalent temperature	Pdh	3.47	kW
Tj = operating limit	Pdh	2.09	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	--
Item	Symbol	Value	Unit
Seasonal space heating energy efficiency	η_s	111.1	%
Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = -7°C	COPd	2.46	-
Tj = 2°C	COPd	3.36	-
Tj = 7°C	COPd	3.94	-
Tj = 12°C	COPd	6.35	-
Tj = bivalent temperature	COPd	1.86	-
Tj = operating limit	COPd	1.13	-
For air-to-water heat pumps: Tj = -15°C	COPd	-	-
For air-to-water heat pumps: Operation limit temperature	TOL	-22	°C
Cycling interval efficiency	COP _{cyc}	-	-
Heating water operating limit temperature	WTOL	51	°C
Power consumption in modes other than active mode			
Off mode	P _{off}	0.014	kW
Standby mode	P _{sb}	0.014	kW
Thermostat-off mode	P _{to}	0.024	kW
Crankcase heater mode	P _{ck}	0.000	kW
Supplementary heater			
Rated heat output (**)	P _{sup}	5.10	kW
Type of energy input	Electrical		
Other items			
Capacity control	variable		
Sound power level, indoors/outdoors	L _{WA}	-	dB
Annual energy consumption	Q _{HE}	3681	kWh
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
Contact details	GD Midea Heating & Ventilating Equipment Co. Ltd (Penglai industry road, Beijiao, Shunde, Foshan, Guangdong, P.R China)		

Technical parameters

Model(s):	MLI006HMAA
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	T _{biv}	7	°C	For air-to-water heat pumps: Operation limit temperature	TOL	2	°C
Cycling interval capacity for heating	P _{cych}	-	kW	Cycling interval efficiency	COP _{cyc}	-	-
Degradation co-efficient (**)	C _{dh}	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	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}	-	dB
Annual energy consumption	Q _{HE}	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	-			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: GD Midea Heating & Ventilating Equipment Co. Ltd
(Penglai industry road, Beijiao, Shunde, Foshan, Guangdong, P.R China)

(*) 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):	MLI008HMAA
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	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}	1.69	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	-59	dB
Annual energy consumption	Q _{HE}	4056	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	-			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: GD Midea Heating & Ventilating Equipment Co. Ltd
(Penglai industry road, Beijiao, Shunde, Foshan, Guangdong, P.R China)

(*) 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):	MLI008HMAA
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	5.8	kW	Seasonal space heating energy efficiency	η_s	112.0	%
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	3.86	kW	Tj = -7 °C	COPd	2.48	-
Tj = 2 °C	Pdh	2.21	kW	Tj = 2 °C	COPd	3.35	-
Tj = 7 °C	Pdh	1.44	kW	Tj = 7 °C	COPd	4.11	-
Tj = 12 °C	Pdh	1.46	kW	Tj = 12 °C	COPd	5.92	-
Tj = bivalent temperature	Pdh	4.71	kW	Tj = bivalent temperature	COPd	1.90	-
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	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}	2.97	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}	4950	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	-			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	GD Midea Heating & Ventilating Equipment Co. Ltd (Penglai industry road, Beijiao, Shunde, Foshan, Guangdong, P.R China)
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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):	MLI008HMAA
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	T _{biv}	7	°C	For air-to-water heat pumps: Operation limit temperature	TOL	2	°C
Cycling interval capacity for heating	P _{cyc}	-	kW	Cycling interval efficiency	COP _{cyc}	-	-
Degradation co-efficient (**)	C _{dh}	0.9	--	Heating water operating limit temperature	W _{TOL}	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	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}	-	dB
Annual energy consumption	Q _{HE}	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	-			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: GD Midea Heating & Ventilating Equipment Co. Ltd
(Penglai industry road, Beijiao, Shunde, Foshan, Guangdong, P.R China)

(*) 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):	MLI010HMAA																																																																																																																																																						
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																																																																																																																																																						
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Technical parameters

Model(s):	MLIO10HMAA
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	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	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	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}	5540	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):	MLI010HMAA
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	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	0.48	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	2516	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				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):	MLI012HMAA
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	Pcyc	-	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	Poff	0.014	kW	Rated heat output (**)	Psup	1.23	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	L _{WA}	-65	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	-			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):	MLI012HMAA
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	Pcych	-	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			For air-to-water heat pumps: Rated air flow rate, outdoors	-	4060	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	8419	kWh				

For heat pump combination heater:

Declared load profile				Water heating energy efficiency			
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):	MLI012HMAA
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	Pcych	-	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	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	3776	kWh				

For heat pump combination heater:

Declared load profile				Water heating energy efficiency			
Daily electricity consumption	Qelec	-	kWh	Daily fuel consumption	Qfuel	-	kWh
Annual electricity consumption	AEC	-	kWh	Annual fuel consumption	AFC	-	GJ

Contact details: GD Midea Heating & Ventilating Equipment Co. Ltd (Penglai industry road, Beijiao, Shunde, Foshan, Guangdong, P.R China)

(*) 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):	MLI016HMAA
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	Pcych	-	kW	Cycling interval efficiency	COPcyc	-	-
Degradation co-efficient (**)	Cdh	0.9	--	Heating water operating limit temperature	WTOL	60	°C
Power consumption in modes other than 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	m³/h
Sound power level, indoors/outdoors	LWA	-68	dB	For water-or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	-	-	m³/h
Annual energy consumption	QHE	7895	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: GD Midea Heating & Ventilating Equipment Co. Ltd (Penglai industry road, Beijiao, Shunde, Foshan, Guangdong, P.R China)

(*) 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):	MLI016HMAA
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	Pcych	-	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	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	9309	kWh				

For heat pump combination heater:

Declared load profile				Water heating energy efficiency			
Daily electricity consumption	Qelec	-	kWh	Daily fuel consumption	Qfuel	-	kWh
Annual electricity consumption	AEC	-	kWh	Annual fuel consumption	AFC	-	GJ

Contact details: GD Midea Heating & Ventilating Equipment Co. Ltd (Penglai industry road, Beijiao, Shunde, Foshan, Guangdong, P.R China)

(*) 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):	MLI016HMAA
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	Pcych	-	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	0.024	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	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	4112	kWh				

For heat pump combination heater:

Declared load profile				Water heating energy efficiency			
Daily electricity consumption	Qelec	-	kWh	Daily fuel consumption	Qfuel	-	kWh
Annual electricity consumption	AEC	-	kWh	Annual fuel consumption	AFC	-	GJ

Contact details: GD Midea Heating & Ventilating Equipment Co. Ltd (Penglai industry road, Beijiao, Shunde, Foshan, Guangdong, P.R China)

(*) 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):	MLI016H0AA
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		
Sound power level, indoors/outdoors	LWA	-68	dB
Annual energy consumption	QHE	7896	kWh
For air-to-water heat pumps: Rated air flow rate, outdoors	-	4650	m³/h
For water-or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	-	-	m³/h

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: GD Midea Heating & Ventilating Equipment Co. Ltd
(Penglai industry road, Beijiao, Shunde, Foshan, Guangdong, P.R China)

(*) 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):	MLIO16HOAA
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	T _{biv}	-15	°C	For air-to-water heat pumps: Operation limit temperature	TOL	-22	°C
Cycling interval capacity for heating	P _{cych}	-	kW	Cycling interval efficiency	COP _{cyc}	-	-
Degradation co-efficient (**)	C _{dh}	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}	6.59	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	-	4650	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}	9310	kWh				

For heat pump combination heater:

Declared load profile				Water heating energy efficiency			
Daily electricity consumption	Q _{elec}	-	kWh	Daily fuel consumption	Q _{fuel}	-	kWh
Annual electricity consumption	AEC	-	kWh	Annual fuel consumption	AFC	-	GJ

Contact details: GD Midea Heating & Ventilating Equipment Co. Ltd (Penglai industry road, Beijiao, Shunde, Foshan, Guangdong, P.R China)

(*) 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):	MLIO16HOAA
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	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	4116	kWh				

For heat pump combination heater:

Declared load profile				Water heating energy efficiency			
Daily electricity consumption	Qelec	-	kWh	Daily fuel consumption	Qfuel	-	kWh
Annual electricity consumption	AEC	-	kWh	Annual fuel consumption	AFC	-	GJ

Contact details: GD Midea Heating & Ventilating Equipment Co. Ltd
(Penglai industry road, Beijiao, Shunde, Foshan, Guangdong, P.R China)

(*) 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):		MLI006HMAA					
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}	-/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_2eq (100years)				
Standard rating conditions used	Low temperature application						
Contact details	GD Midea Heating & Ventilating Equipment Co. , Ltd. Penglai industry Road, Beijiao, Shunde, Foshan, Guangdong, 528311 P.R. China						
(*) 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):	MLI006HMAA						
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}	-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	GD Midea Heating & Ventilating Equipment Co. , Ltd. Penglai industry Road, Beijiao, Shunde, Foshan, Guangdong, 528311 P.R. China						
(*) 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):	MLI008HMAA						
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}	-/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_2eq (100years)				
Standard rating conditions used	Low temperature application						
Contact details	GD Midea Heating & Ventilating Equipment Co. , Ltd. Penglai industry Road, Beijiao, Shunde, Foshan, Guangdong, 528311 P.R. China						
(*) 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):	MLI008HMAA						
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	LWA	-/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	GD Midea Heating & Ventilating Equipment Co. , Ltd. Penglai industry Road, Beijiao, Shunde, Foshan, Guangdong, 528311 P.R. China						
(*) 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):		MLI010HMAA					
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}	-/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	GD Midea Heating & Ventilating Equipment Co. , Ltd. Penglai industry Road, Beijiao, Shunde, Foshan, Guangdong, 528311 P.R. China						
(*) 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):	MLI010HMAA						
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	$P_{rated,c}$	10.0	kW	Seasonal space cooling energy efficiency	$\eta_{s,c}$	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 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}	-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_2eq (100years)				
Standard rating conditions used	Medium temperature application						
Contact details	GD Midea Heating & Ventilating Equipment Co. , Ltd. Penglai industry Road, Beijiao, Shunde, Foshan, Guangdong, 528311 P.R. China						
(*) 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):	MLI012HMAA						
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}	-/65	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 $\text{CO}_2 \text{ eq}$ (100years)				
Standard rating conditions used	Low temperature application						
Contact details	GD Midea Heating & Ventilating Equipment Co. , Ltd. Penglai industry Road, Beijiao, Shunde, Foshan, Guangdong, 528311 P.R. China						
(*) 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):	MLI012HMAA						
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}	-64	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 $\text{CO}_2 \text{ eq}$ (100years)				
Standard rating conditions used	Medium temperature application						
Contact details	GD Midea Heating & Ventilating Equipment Co. , Ltd. Penglai industry Road, Beijiao, Shunde, Foshan, Guangdong, 528311 P.R. China						
(*) 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):	MLI016HMAA						
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	L_{WA}	-69	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	GD Midea Heating & Ventilating Equipment Co. , Ltd. Penglai industry Road, Beijiao, Shunde, Foshan, Guangdong, 528311 P.R. China						
(*) 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):	MLI016HMAA
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	$\eta_{s,c}$	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	-				
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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}	-69	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
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Contact details	GD Midea Heating & Ventilating Equipment Co. , Ltd. Penglai industry Road, Beijiao, Shunde, Foshan, Guangdong, 528311 P.R. China
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(*) 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):	MLI016H0AA						
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}	-/69	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	GD Midea Heating & Ventilating Equipment Co. , Ltd. Penglai industry Road, Beijiao, Shunde, Foshan, Guangdong, 528311 P.R. China						
(*) 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):	MLI016H0AA						
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}	-69	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 $\text{CO}_2 \text{ eq}$ (100years)				
Standard rating conditions used	Medium temperature application						
Contact details	GD Midea Heating & Ventilating Equipment Co. , Ltd. Penglai industry Road, Beijiao, Shunde, Foshan, Guangdong, 528311 P.R. China						
(*) 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)	Model	Capacity (kW)	Power input (kW)	EER/COP (/)
Ambient Temperature: 35/24 Water temperature: 12/7	MLI006HMAA	7.00	2.33	3.00
	MLI008HMAA	7.45	2.22	3.35
	MLI010HMAA	8.20	2.52	3.25
	MLI012HMAA	11.5	4.18	2.75
	MLI016HMAA	14.0	5.60	2.50
	MLI016H0MM	14.0	5.60	2.50
Ambient Temperature: 35/24 Water temperature: 23/18	MLI006HMAA	6.50	1.35	4.80
	MLI008HMAA	8.30	1.64	5.05
	MLI010HMAA	9.90	2.18	4.55
	MLI012HMAA	12.00	3.04	3.95
	MLI016HMAA	14.90	4.38	3.40
	MLI016H0MM	14.90	4.38	3.40
Ambient Temperature: 7/6 Water temperature: 30/35	MLI006HMAA	6.35	1.28	4.95
	MLI008HMAA	8.40	1.63	5.15
	MLI010HMAA	10.0	2.02	4.95
	MLI012HMAA	12.1	2.44	4.95
	MLI016HMAA	15.9	3.53	4.50
	MLI016H0MM	15.9	3.53	4.50
Ambient Temperature: 2/1 Water temperature: 30/35	MLI006HMAA	5.50	1.41	3.90
	MLI008HMAA	7.10	1.73	4.10
	MLI010HMAA	8.20	2.05	4.00
	MLI012HMAA	9.2	2.36	3.90
	MLI016HMAA	13.0	3.77	3.45
	MLI016H0MM	13.0	3.77	3.45

Condition(°C)	Model	Capacity (kW)	Power input (kW)	EER/COP (/)
Ambient Temperature: -7/-8 Water temperature: 30/35	MLI006HMAA	6.00	2.00	3.00
	MLI008HMAA	7.00	2.19	3.20
	MLI010HMAA	8.00	2.62	3.05
	MLI012HMAA	10.00	3.33	3.00
	MLI016HMAA	13.10	4.85	2.70
	MLI016H0MM	13.10	4.85	2.70
	MLI006HMAA	6.00	2.00	3.00
Ambient Temperature: 7/6 Water temperature: 40/45	MLI006HMAA	6.30	1.70	3.70
	MLI008HMAA	8.10	2.10	3.85
	MLI010HMAA	10.0	2.67	3.75
	MLI012HMAA	12.3	3.32	3.70
	MLI016HMAA	16.0	4.57	3.50
	MLI016H0MM	16.0	4.57	3.50
Ambient Temperature: 2/1 Water temperature: 40/45	MLI006HMAA	5.80	1.93	3.00
	MLI008HMAA	7.40	2.28	3.25
	MLI010HMAA	7.85	2.45	3.20
	MLI012HMAA	10.60	3.53	3.00
	MLI016HMAA	12.70	4.46	2.85
	MLI016H0MM	12.70	4.46	2.85
Ambient Temperature: -7/-8 Water temperature: 40/45	MLI006HMAA	5.40	2.25	2.40
	MLI008HMAA	6.60	2.59	2.55
	MLI010HMAA	7.35	2.88	2.55
	MLI012HMAA	10.20	4.25	2.40
	MLI016HMAA	12.80	5.69	2.25
	MLI016H0MM	12.80	5.69	2.25

Condition(°C)	Model	Capacity (kW)	Power input (kW)	EER/COP (/)
Ambient Temperature: 7/6 Water temperature: 47/55	MLI006HMAA	6.00	2.03	2.95
	MLI008HMAA	7.50	2.36	3.18
	MLI010HMAA	9.50	3.06	3.10
	MLI012HMAA	11.9	3.90	3.05
	MLI016HMAA	16.0	5.61	2.85
	MLI016H0MM	16.0	5.61	2.85
Ambient Temperature: 2/1 Water temperature: 47/55	MLI006HMAA	5.65	2.31	2.45
	MLI008HMAA	7.10	2.73	2.60
	MLI010HMAA	8.10	3.16	2.56
	MLI012HMAA	11.30	4.52	2.50
	MLI016HMAA	13.30	5.54	2.40
	MLI016H0MM	13.30	5.54	2.40
Ambient Temperature: -7/-8 Water temperature: 47/55	MLI006HMAA	5.15	2.58	2.00
	MLI008HMAA	6.15	3.00	2.05
	MLI010HMAA	6.85	3.43	2.00
	MLI012HMAA	9.80	4.78	2.05
	MLI016HMAA	12.50	6.25	2.00
	MLI016H0MM	12.50	6.25	2.00

