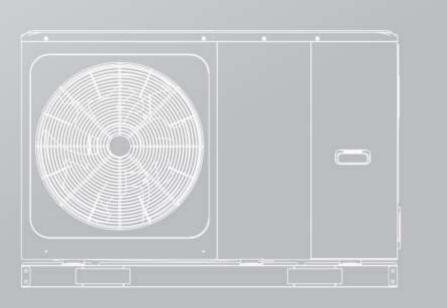


TECHNICAL DATA MANUAL

MLI Heat Pump





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

RG66022737

UNI/TS 11300 parte 4 - MLI

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 Tdesignh = temperatura di progetto del clima Average come definito dalla norma EN 14825 T mandata = temperatura acqua calda inviata all'impianto (temperatura del pozzo caldo) Te = temperatura **dell'aria esterna** A, B, C, D = le quattro condizioni di temperatura aria esterna (Te) 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) Pdc = 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'unitàdi 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	А	В	с	D	unità di misura
Те	-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	-
Р	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] Ф _{Н,НР out}				СОР	
Те	Tmandata 35°C	Tmandata 45°C	Tmandata 55°C	Tmandata 35°C	Tmandata 45°C	Tmandata 55°C
-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] ФH,HP out	СОР
Те	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	А	В	с	D	unità di misura
Те	-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	-
Р	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] $\Phi_{H,HP out}$			СОР		
Те	Tmandata 35°C	Tmandata 45°C	Tmandata 55°C	Tmandata 35°C	Tmandata 45°C	Tmandata 55°C
-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] ФH,HP out	СОР	
Те	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	А	В	с	D	unità di misura
Те	-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	-
Р	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] $\Phi_{\rm H, HP out}$		СОР			
Те	Tmandata 35°C	Tmandata 45°C	Tmandata 55°C	Tmandata 35°C	Tmandata 45°C	Tmandata 55°C
-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] ФH,HP out	СОР
Те	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	А	В	с	D	unità di misura
Те	-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	-
Р	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]		a nieno carico			СОР	
Те	Tmandata 35°C	Tmandata 45°C	Tmandata 55°C	Tmandata 35°C	Tmandata 45°C	Tmandata 55°C	
-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] ФH,HP out	СОР
Те	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	А	В	с	D	unità di misura
Те	-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	-
Р	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	arico Potenza termica [kW]				СОР		
Те	Tmandata 35°C	Tmandata 45°C	Tmandata 55°C	Tmandata 35°C	Tmandata 45°C	Tmandata 55°C	
-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] ФH,HP out	СОР
Те	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

MLI016H0AA

Dati per calcolo COP _{PL} con Tmandata=35°C	Tdesignh	А	В	с	D	unità di misura
Те	-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	-
Р	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	F	Potenza termica [kW Ф _{H,HP out}	v]	СОР			
Те	Tmandata 35°C	Tmandata 45°C	Tmandata 55°C	Tmandata 35°C	Tmandata 45°C	Tmandata 55°C	
-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] ФH,HP out	СОР
Те	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

				For medium - temperature application									
		Unit sound power	;	average climat	e		colder climate	•		warmer climate			
Model	Energy efficiency class		Rated heat output	heating		Rated heat output	Seasonal space heating energy efficiency	For space heating,annu al energy consumption	Rated heat output	heating	For space heating,annu al energy consumption		
	-	dB	kW	%	k₩h	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

					For low -	temperature a	ppl ication				
				average climat	e		colder climate		warmer climate		
Model	Energy efficiency class	Unit sound power	Rated heat output	lheating l		Rated heat output	beating	For space heating,annu al energy consumption	Rated heat output	space	For space heating,annu al energy consumption
	-	dB	kW	%	kWh	k₩	%	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

Heat pum	p space heater	Model	MLI006HMAA	MLI008HMAA	MLI010HMAA	MLI012HMAA	MLI016HMAA	MLI016H0AA
	Average climate low temperature application	58.0	59.0	60.0	65.0	68.0	68.0	68.0
Unit sound power (*)	Average climate medium temperature application	58.0	59.0	60.0	65.0	68.0	68.0	68.0
Space heating	Energy efficiency class 35°C (Low temp. app.)	A+++	A+++	A+++	A+++	A+++	A+++	A+++
Space heating	Energy efficiency class 55°C (Medium temp. app.)	A++	A++	A++	A++	A++	A++	A++
Average climate (Desig	n temperature = -10°C)							
	Prated (declared heating capacity) @ -10°C	[kW]	6.8	8.1	9.2	12.0	15.2	15.2
Space heating 35°C	Seasonal space heating efficiency (η s)	[%]	195.0	205.6	204.8	189.4	181.7	181.6
	Annual energy consumption	[kWh]	2,845	3,218	3644	5,152	6,804	6,805
	Prated (declared heating capacity) @ -10°C	[kW]	5.7	6.6	7.7	11.6	13.0	13.0
Space heating 55°C	Seasonal space heating efficiency (η s)	[%]	137.9	131.5	136.6	135.1	133.3	133.2
	Annual energy consumption	[kWh]	3,345	4,056	4,539	6,927	7,895	7,896
Part load conditions sp	bace heating average climate low tempe	rature applic	ation		-			
	Pdh (declared heating capacity)	[kW]	6.03	7.18	8.10	10.61	13.45	13.45
(A) condition (-7°C)	COPd (declared COP)	-	3.09	3.35	3.23	2.88	2.72	2.72
	Cdh(degradation coefficient)	-	0.90	0.90	0.90	0.90	0.90	0.90
	Pdh (declared heating capacity)	[kW]	3.88	4.65	5.18	6.69	8.56	8.56
(B) condition (2°C)	COPd (declared COP)	-	4.85	5.09	5.01	4.65	4.41	4.41
	Cdh(degradation coefficient)	-	0.90	0.90	0.90	0.90	0.90	0.90
	Pdh (declared heating capacity)	[kW]	2.39	2.90	3.32	4.44	5.70	5.70
(C) condition (7°C)	COPd (declared COP)	-	6.63	6.82	7.08	6.62	6.56	6.56
	Cdh(degradation coefficient)	-	0.90	0.90	0.90	0.90	0.90	0.90
	Pdh (declared heating capacity)	[kW]	1.39	1.63	1.65	3.74	3.78	3.78
(D) condition (12°C)	COPd (declared COP)	-	7.93	8.35	8.58	8.47	8.51	8.51
	Cdh(degradation coefficient)	-	0.90	0.90	0.90	0.90	0.90	0.90

Heat pump	space heater	Model	MLI006HMAA	MLI008HMAA	MLI010HMAA	MLI012HMAA	MLI016HMAA	MLI016H0AA
	Tol (temperature operating limit)	[°C]	-10.00	-10.00	-10.00	-10.00	-10.00	-10.00
(E) Tol	Pdh (declared heating capacity)	[kW]	5.36	6.44	7.40	10.74	12.52	12.52
(temperature	COPd (declared COP)	-	2.76	3.04	2.96	2.77	2.48	2.48
operating limit)	WTOL (Heating water Operation Limit)	[°C]	60.00	60.00	60.00	60.00	60.00	60.00
	Tblv	[°C]	-7.00	-7.00	-7.00	-7.00	-7.00	-7.00
(F) Tbivalent	Pdh (declared heating capacity)	[kW]	6.03	7.18	8.10	10.61	13.45	13.45
temperature	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 mediu	m temperatu	re application					
	Pdh (declared heating capacity)	[kW]	5.04	5.84	6.78	10.24	11.52	11.52
(A) condition (-7°C)	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
	Pdh (declared heating capacity)	[kW]	3.12	3.75	4.28	6.52	7.18	7.18
(B) condition (2°C)	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
	Pdh (declared heating capacity)	[kW]	2.08	2.42	2.77	4.36	4.67	4.67
(C) condition (7°C)	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
	Pdh (declared heating capacity)	[kW]	1.28	1.39	1.58	3.29	3.31	3.31
(D) condition (12°C)	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
	Tol (temperature operating limit)	[°C]	-10.00	-10.00	-10.00	-10.00	-10.00	-10.00
(E) Tol	Pdh (declared heating capacity)	[kW]	4.52	4.90	5.38	9.10	10.33	10.33
(temperature	COPd (declared COP)	-	1.91	1.84	1.83	1.79	1.80	1.80
operating limit)	WTOL (Heating water Operation Limit)	[°C]	60.00	60.00	60.00	60.00	60.00	60.00
	Tblv	[°C]	-7.00	-7.00	-7.00	-7.00	-7.00	-7.00
(F) Tbivalent	Pdh (declared heating capacity)	[kW]	5.04	5.84	6.78	10.24	11.52	11.52
temperature	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

Heat pump s	space heater	Model	MLI006HMAA	MLI008HMAA	MLI010HMAA	MLI012HMAA	MLI016HMAA	MLI016H0AA
Colder climate (Design tempe	erature = -22°C)							
	Prated (declared heating capacity) @ -22°C	[kW]	5.6	7.0	7.7	11.4	13.7	13.7
Space heating 35°C	Seasonal space heating efficiency (η s)	[%]	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
	Prated (declared heating capacity) @ -22°C	[kW]	4.3	5.8	6.7	10.3	11.8	11.8
Space heating 55°C	Seasonal space heating efficiency (η S)	[%]	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 h	eating colder climate low temperature	application						
	Pdh (declared heating capacity)	[kW]	3.42	4.46	4.83	7.05	8.31	8.31
(A) condition (-7°C)	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
	Pdh (declared heating capacity)	[kW]	2.06	2.69	2.94	4.67	5.26	5.26
(B) condition (2°C)	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
	Pdh (declared heating capacity)	[kW]	1.46	1.65	1.92	3.14	3.62	3.62
(C) condition (7°C)	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
	Pdh (declared heating capacity)	[kW]	1.44	1.65	1.65	3.57	3.34	3.34
(D) condition (12°C)	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
	Tol (temperature operating limit)	[°C]	-22.00	-22.00	-22.00	-22.00	-22.00	-22.00
(E) Tol (temperature	Pdh (declared heating capacity)	[kW]	3.48	4.06	4.62	7.01	8.88	8.88
operating limit)	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
	Tblv	[°C]	-15.00	-15.00	-15.00	-15.00	-15.00	-15.00
(F) Tbivalent temperature	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

Heat pump	space heater	Model	MLI006HMAA	MLI008HMAA	MLI010HMAA	MLI012HMAA	MLI016HMAA	MLI016H0AA
Part load conditions space h	neating colder climate medium temperat	ure application	on	•				
	Pdh (declared heating capacity)	[kW]	2.70	3.86	4.27	6.63	7.64	7.64
(A) condition (-7°C)	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
	Pdh (declared heating capacity)	[kW]	1.60	2.21	2.57	4.06	4.42	4.42
(B) condition (2°C)	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
	Pdh (declared heating capacity)	[kW]	1.02	1.44	1.65	2.78	2.97	2.97
(C) condition (7°C)	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
	Pdh (declared heating capacity)	[kW]	1.37	1.46	1.47	3.33	3.43	3.43
(D) condition (12°C)	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
	Tol (temperature operating limit)	[°C]	-22.00	-22.00	-22.00	-22.00	-22.00	-22.00
(E) Tol (temperature	Pdh (declared heating capacity)	[kW]	2.09	2.80	2.80	4.19	5.21	5.21
operating limit)	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
	Tblv	[°C]	-15.00	-15.00	-15.00	-15.00	-15.00	-15.00
(F) Tbivalent temperature	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 tem	perature = 2°C)							
	Prated (declared heating capacity) @ 2°C	[kW]	6.1	8.1	8.6	11.1	13.1	13.1
Space heating 35°C	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
	Prated (declared heating capacity) @ 2°C	[kW]	5.1	7.6	8.6	12.5	13.8	13.8
Space heating 55°C	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

Heat pump	space heater	Model	MLI006HMAA	MLI008HMAA	MLI010HMAA	MLI012HMAA	MLI016HMAA	MLI016H0AA
Part load conditions spac	e heating warmer climate low temp	erature appli	cation					
	Pdh (declared heating capacity)	[kW]	5.93	7.56	8.44	11.26	13.10	13.10
(B) condition (2°C)	COPd (declared COP)	-	3.91	3.98	3.84	3.59	3.35	3.35
	Cdh(degradation coefficient)	-	0.90	0.90	0.90	0.90	0.90	0.90
	Pdh (declared heating capacity)	[kW]	3.93	5.22	5.52	7.14	8.41	8.41
(C) condition (7°C)	COPd (declared COP)	-	5.89	6.26	6.18	5.87	5.36	5.36
	Cdh(degradation coefficient)	-	0.90	0.90	0.90	0.90	0.90	0.90
	Pdh (declared heating capacity)	[kW]	1.79	2.62	2.62	3.55	3.87	3.87
(D) condition (12°C)	COPd (declared COP)	-	8.20	9.23	9.04	7.94	8.11	8.11
	Cdh(degradation coefficient)	-	0.90	0.90	0.90	0.90	0.90	0.90
	Tol (temperature operating limit)	[°C]	2.00	2.00	2.00	2.00	2.00	2.00
(E) Tol	Pdh (declared heating capacity)	[kW]	5.93	7.56	8.44	11.26	13.10	13.10
(temperature	COPd (declared COP)	-	3.91	3.98	3.84	3.59	3.35	3.35
operating limit)	WTOL (Heating water Operation Limit)	[°C]	62.00	62.00	62.00	62.00	62.00	62.00
	Tblv	[°C]	7.00	7.00	7.00	7.00	7.00	7.00
(F) Tbivalent temperature	Pdh (declared heating capacity)	[kW]	3.93	5.22	5.52	7.14	8.41	8.41
	COPd (declared COP)	-	5.89	6.26	6.18	5.87	5.36	5.36
Supplementary capacity at P_design	Psup (@Tdesignh: 2°C)	[kW]	0.18	0.55	0.14	0.00	0.00	0.00
Part load conditions spac	e heating warmer climate medium t	emperature	application					
	Pdh (declared heating capacity)	[kW]	5.02	7.55	8.06	12.07	13.38	13.38
(B) condition (2°C)	COPd (declared COP)	-	2.48	2.59	2.59	2.31	2.29	2.29
	Cdh(degradation coefficient)	-	0.90	0.90	0.90	0.90	0.90	0.90
	Pdh (declared heating capacity)	[kW]	3.31	4.86	5.54	8.04	8.86	8.86
(C) condition (7°C)	COPd (declared COP)	-	3.67	3.92	4.10	3.86	3.84	3.84
	Cdh(degradation coefficient)	-	0.90	0.90	0.90	0.90	0.90	0.90
	Pdh (declared heating capacity)	[kW]	1.60	2.31	2.53	3.75	4.06	4.06
(D) condition (12°C)	COPd (declared COP)	-	5.29	5.55	5.82	5.70	5.86	5.86
	Cdh(degradation coefficient)	-	0.90	0.90	0.90	0.90	0.90	0.90

Heat pump s	space heater	Model	MLI006HMAA	MLI008HMAA	MLI010HMAA	MLI012HMAA	MLI016HMAA	MLI016H0AA
	Tol (temperature operating limit)	[°C]	2.00	2.00	2.00	2.00	2.00	2.00
(E) Tol	Pdh (declared heating capacity)	[kW]	5.02	7.55	8.06	12.07	13.38	13.38
(temperature	COPd (declared COP)	-	2.48	2.59	2.59	2.31	2.29	2.29
operating limit)	WTOL (Heating water Operation Limit)	[°C]	62.00	62.00	62.00	62.00	62.00	62.00
	Tblv	[°C]	7.00	7.00	7.00	7.00	7.00	7.00
(F) Tbivalent	Pdh (declared heating capacity)	[kW]	3.31	4.86	5.54	8.04	8.86	8.86
temperature	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				-				
	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
Product description	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	[m ³ /h]	2770	4030	4030	4060	4650	4650
Brine/water to water unit	Rated water/brine flow (outdoor H/E)		/	/	/	/	/	/
	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
Other	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]	/	/	/	/	/	/

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	ηs	137.9	%
Declared capacity for heating for part load and outdoor temperature Tj	at indoor tem	perature 20 °C	2	Declared coefficient of performance or prim indoor temperature 20 °C and outdoor temp		tio for part loa	id at
Tj = -7℃	Pdh	5.04	kW	Tj = -7 ℃	COPd	2.17	-
Tj = 2℃	Pdh	3.12	kW	Tj = 2℃	COPd	3.51	-
Tj = 7℃	Pdh	2.08	kW	Tj = 7℃	COPd	4.54	-
Tj = 12℃	Pdh	1.28	kW	Tj = 12℃	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 $^\circ\!\!\mathbb{C}$	Pdh	-	kW	For air-to-water heat pumps: Tj = -15 $^\circ\!\!\mathbb{C}$	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 a	active mode			Supplementary heater			
Off mode	Poff	0.014	kW	Rated heat output (**)	Psup	1.18	kW
Standby mode	Psb	0.014	kW		. oup	1.10	KVV
Thermostat-off mode	Pto	0.024	kW	Type of energy input		Electrical	
Crankcase heater mode	Pck	0.000	kW				
Other items							
Capacity control		variable		For air-to-water heat pumps: Rated air flow rate, outdoors	-	2770	m³/h
Sound power level, indoors/outdoors	L _{WA}	-/58	dB	For water-or brine-to-water heat pumps: Rated brine or water flow rate, outdoor	-	-	m³/h
Annual energy consumption	Q _{HE}	3345	kWh	heat exchanger			
For heat pump combination heater:							
Declared load profile		-		Water heating energy efficiency	η _{wh}	-	%
Daily electricity consumption	Q _{clec}	-	kWh	Daily fuel consumption	Q _{fuel}	-	kWł
Annual electricity consumption	AEC	-	kWh	Annual fuel consumption	AFC	-	GJ
Contact details				uipment Co. Ltd nde, 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.

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.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	4.3	kW	Seasonal space heating energy efficiency	ηs	111.1	%
Declared capacity for heating for part load a and outdoor temperature Tj	at indoor temp	perature 20 °C	;	Declared coefficient of performance or prim indoor temperature 20 °C and outdoor temp		itio for part loa	id at
Tj = -7℃	Pdh	2.70	kW	Tj = −7 °C	COPd	2.46	-
Tj = 2℃	Pdh	1.60	kW	Tj = 2℃	COPd	3.36	-
Tj = 7℃	Pdh	1.02	kW	Tj = 7℃	COPd	3.94	-
Tj = 12℃	Pdh	1.37	kW	Tj = 12℃	COPd	6.35	-
Tj = bivalent temperature	Pdh	3.47	kW	Tj = bivalent temperature	COPd	1.86	-
Tj = operating limit	Pdh	2.09	kW	Tj = operating limit	COPd	1.13	-
For air-to-water heat pumps: Tj = -15 $^{\circ}$ C	Pdh	-	kW	For air-to-water heat pumps: Tj = -15 $^{\circ}$ 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 ac	tive mode			Supplementary heater			
Off mode	Poff	0.014	kW	Rated heat output (**)	Psup	5.40	1.3.67
Standby mode	Psb	0.014	kW		r sup	5.10	kW
Thermostat-off mode	Pto	0.024	kW	Type of energy input		Electrical	
Crankcase heater mode	Pck	0.000	kW	Type of energy input		Liectrical	

Other items							
Capacity control	variable			For air-to-water heat pumps: Rated air flow rate, outdoors	-	2770	m³/h
Sound power level, indoors/outdoors	L _{WA}	-	dB	For water-or brine-to-water heat pumps: Rated brine or water flow rate, outdoor	-	-	m³/h
Annual energy consumption	Q _{HE}	3681	kWh	heat exchanger			

For heat pump combination heater:								
Declared load profile		-			Water heating energy efficiency	η wh	-	%
Daily electricity consumption	Q _{clec}	-	kWh		Daily fuel consumption	Q _{fuel}	-	kWh
Annual electricity consumption	AEC	-	kWh		Annual fuel consumption	AFC	-	GJ
	GD Midea Heating & Ventilating Equipment Co. Ltd							

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.

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	ηs	164.7	%
Declared capacity for heating for part load a and outdoor temperature Tj	at indoor temp	perature 20 °C	;	Declared coefficient of performance or prim indoor temperature 20 °C and outdoor temp		itio for part loa	d at
Tj = −7 °C	Pdh	-	kW	Tj = −7°C	COPd	-	-
Tj = 2°C	Pdh	5.02	kW	Tj = 2℃	COPd	2.48	-
Tj = 7°C	Pdh	3.31	kW	Tj = 7℃	COPd	3.67	-
Tj = 12℃	Pdh	1.60	kW	Tj = 12℃	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 $^\circ\!\mathrm{C}$	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 ac	tive mode			Supplementary heater			
Off mode	Poff	0.014	kW	Rated heat output (**)	Psup	0	kW
Standby mode	Psb	0.014	kW		i sup	0	KVV
Thermostat-off mode	Pto	0.024	kW	Type of energy input		Electrical	
Crankcase heater mode	Pck	0.000	kW			Electrical	
Other items							
Capacity control		variable		For air-to-water heat pumps: Rated air flow rate, outdoors	-	2770	m³/h
Sound power level, indoors/outdoors	L _{WA}	-	dB	For water-or brine-to-water heat pumps: Rated brine or water flow rate, outdoor	-	-	m³/h

For heat pump combination heater:	For heat pump combination heater:							
Declared load profile		-			Water heating energy efficiency	η _{wh}	-	%
Daily electricity consumption	Q _{clec}	-	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)							

kWh

1640

Q_{HE}

Annual energy consumption

heat exchanger

(*) 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.

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	ηs	131.5	%		
Declared capacity for heating for part load a and outdoor temperature Tj	at indoor temp	berature 20 °C	;	Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj					
Tj = -7℃	Pdh	5.84	kW	Tj = -7℃	COPd	2.16	-		
Tj = 2℃	Pdh	3.75	kW	Tj = 2℃	COPd	3.30	-		
Tj = 7℃	Pdh	2.42	kW	Tj = 7℃	COPd	4.34	-		
Tj = 12℃	Pdh	1.39	kW	Tj = 12℃	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 $^\circ\!\!\!\mathrm{C}$	Pdh	-	kW	For air-to-water heat pumps: Tj = -15 $^{\circ}$ 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 ac	tive mode			Supplementary heater					
Off mode	Poff	0.014	kW	Rated heat output (**)	Psup	4.00	1.3.47		
Standby mode	Psb	0.014	kW		rsup	1.69	kW		
Thermostat-off mode	Pto	0.024	kW	Type of energy input		Electrical			
Crankcase heater mode	Pck	0.000	kW	i ypo or onorgy input		Electrical			

Other items							
Capacity control	variable			For air-to-water heat pumps: Rated air flow rate, outdoors	-	4030	m³/h
Sound power level, indoors/outdoors	L _{WA}	-/59	dB	For water-or brine-to-water heat pumps: Rated brine or water flow rate, outdoor	-	-	m³/h
Annual energy consumption	Q _{HE}	4056	kWh	heat exchanger			

For heat pump combination heater:											
Declared load profile		-			Water heating energy efficiency	η _{wh}	-	%			
Daily electricity consumption	Q _{clec}	-	kWh		Daily fuel consumption	Q _{fuel}	-	kWh			
Annual electricity consumption	AEC	-	kWh		Annual fuel consumption	AFC	-	GJ			
						•					
Contact details		D Midea Heating & Ventilating Equipment Co. Ltd englai 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.

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	ηs	112.0	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj				Declared coefficient of performance or prim indoor temperature 20 °C and outdoor temp		tio for part loa	d at
Tj = −7 °C	Pdh	3.86	kW	Tj = -7℃	COPd	2.48	-
Tj = 2℃	Pdh	2.21	kW	Tj = 2°C	COPd	3.35	-
Tj = 7℃	Pdh	1.44	kW	Tj = 7℃	COPd	4.11	-
Tj = 12℃	Pdh	1.46	kW	Tj = 12℃	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 $^{\circ}$ 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 ac	tive mode			Supplementary heater			
Off mode	Poff	0.014	kW	Rated heat output (**)	Psup	0.07	1.3.47
Standby mode	Psb	0.014	kW		r sup	2.97	kW
Thermostat-off mode	Pto	0.024	kW	Type of energy input		Electrical	
Crankcase heater mode	Pck	0.000	kW	Electrica			

Other items							
Capacity control	variable			For air-to-water heat pumps: Rated air flow rate, outdoors	-	4030	m³/h
Sound power level, indoors/outdoors	L _{WA}	-	dB	For water-or brine-to-water heat pumps: Rated brine or water flow rate, outdoor	-	-	m³/h
Annual energy consumption	Q _{HE}	4950	kWh	heat exchanger			

For heat pump combination heater:											
Declared load profile		-			Water heating energy efficiency	η _{wh}	-	%			
Daily electricity consumption	Q _{clec}	-	kWh		Daily fuel consumption	Q _{fuel}	-	kWh			
Annual electricity consumption	AEC	-	kWh		Annual fuel consumption	AFC	-	GJ			
Contact details		D 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.

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	ηs	175.8	%			
Declared capacity for heating for part load a and outdoor temperature Tj	Peclared capacity for heating for part load at indoor temperature 20 °C nd 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 ℃	Pdh	-	kW	Tj = -7℃	COPd	-	-			
Tj = 2°C	Pdh	7.55	kW	Tj = 2℃	COPd	2.59	-			
Tj = 7 ℃	Pdh	4.86	kW	Tj = 7℃	COPd	3.92	-			
Tj = 12℃	Pdh	2.31	kW	Tj = 12℃	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 $^\circ\!\mathrm{C}$	Pdh	-	kW	For air-to-water heat pumps: Tj = -15 $^{\circ}$ 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 ac	tive mode			Supplementary heater						
Off mode	Poff	0.014	kW	Rated heat output (**)	Psup	0	kW			
Standby mode	Psb	0.014	kW		i sup	0	ĸvv			
Thermostat-off mode	Pto	0.024	kW	Type of energy input		Electrical				
Crankcase heater mode	Pck	0.000	kW	i i po oi oiloigi inpat	Electrical					

Otheritems					
Capacity control	variable			For air-to-water heat pumps: - 4030 Rated air flow rate, outdoors - 4030	m³/h
Sound power level, indoors/outdoors	L_{WA}	-	dB	For water-or brine-to-water heat pumps: Rated brine or water flow rate, outdoor	m³/h
Annual energy consumption	Q _{HE}	2259	kWh	heat exchanger	

For heat pump combination heater:										
Declared load profile		-			Water heating energy efficiency	¶ _{wh}	-	%		
Daily electricity consumption	Q _{clec}	-	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.

		Tecl	nnical		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	er:				NO						
Heat pump combination heater:					NO						
Declared climate condition:					AVERAGE						
Parameters are declared for medium-	temperature	e application									
Item	Symbol	Value	Unit		Item	Symbol	Value	Unit			
Rated heat output (*)	Prated	7.7	kW		Seasonal space heating energy efficiency	ηs	136.6	%			

kW

ľ

Rated heat output (*)	Prated	7.7	kW	Seasonal space heating energy efficiency	ηs	136.6	%
Declared capacity for heating for part load a and outdoor temperature Tj	at indoor temp	perature 20 °C	;	Declared coefficient of performance or prim indoor temperature 20 °C and outdoor temp		itio for part loa	ad at
Tj = -7℃	Pdh	6.78	kW	Tj = -7℃	COPd	2.24	-
Tj = 2℃	Pdh	4.28	kW	Tj = 2℃	COPd	3.42	-
Tj = 7℃	Pdh	2.77	kW	Tj = 7℃	COPd	4.52	-
Tj = 12℃	Pdh	1.58	kW	Tj = 12℃	COPd	5.68	-
Tj = bivalent temperature	Pdh	6.78	kW	Tj = bivalent temperature	COPd	2.24	-
Tj = operating limit	Pdh	5.38	kW	Tj = operating limit	COPd	1.83	-
For air-to-water heat pumps: Tj = -15 $^\circ\!\!\!\mathrm{C}$	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 ad	ctive mode			Supplementary heater			
Off mode	Poff	0.014	kW	Rated heat output (**)	Psup	0.00	
Standby mode	Psb	0.014	kW		Fsup	2.29	kW
Thermostat-off mode	Pto	0.024	kW	Type of energy input		Electrical	
Crankcase heater mode	Pck	0.000	kW	Type of onergy input		LICOUIDAI	

Other items								
Capacity control		variable			For air-to-water heat pumps: Rated air flow rate, outdoors	-	4030	m³/h
Sound power level, indoors/outdoors	L _{WA}	-/60	dB		For water-or brine-to-water heat pumps: Rated brine or water flow rate, outdoor	-	-	m³/h
Annual energy consumption	Q _{HE}	4539	kWh		heat exchanger			
For heat pump combination heater:								
Declared load profile		-			Water heating energy efficiency	η _{wh}	-	%
Daily electricity consumption	Q _{clec}	-	kWh		Daily fuel consumption	Q _{fuel}	-	kWh
Annual electricity consumption	AEC	-	kWh		Annual fuel consumption	AFC	-	GJ
Contact details					oment Co. Ltd e, 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
Declared climate condition:	COLDER
Parameters are declared for medium-tempera	ture application.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit	
Rated heat output (*)	Prated	6.7	kW	Seasonal space heating energy efficiency	ηs	116.4	%	
Declared capacity for heating for part load and outdoor temperature Tj	at indoor tem	perature 20 °C	;	Declared coefficient of performance or prim indoor temperature 20 °C and outdoor temp		itio for part loa	ıd at	
Tj = -7℃	Pdh	4.27	kW	Tj = -7℃	COPd	2.54	-	
Tj = 2℃	Pdh	2.57	kW	Tj = 2℃	COPd	3.51	-	
Tj = 7℃	Pdh	1.65	kW	Tj = 7℃	COPd	4.37	-	
Tj = 12℃	Pdh	1.47	kW	Tj = 12℃	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 $^\circ\!\mathrm{C}$	Pdh	-	kW	For air-to-water heat pumps: Tj = -15 $^\circ\!\!\!\!^\circ$	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 a	ctive mode			Supplementary heater				
Off mode	Poff	0.014	kW	Rated heat output (**)	Psup	3.91	kW	
Standby mode	Psb	0.014	kW		r sup	3.91	KVV	
Thermostat-off mode	Pto	0.024	kW	Type of energy input		Electrical		
Crankcase heater mode	Pck	0.000	kW	JT				
Other items								
Capacity control		variable		For air-to-water heat pumps: Rated air flow rate, outdoors	-	4030	m³/h	
Sound power level, indoors/outdoors	L _{WA}	-	dB	For water-or brine-to-water heat pumps: Rated brine or water flow rate, outdoor	-	-	m³/h	
Annual energy consumption	Q _{HE}	5540	kWh	heat exchanger				
For heat pump combination heater:								
Declared load profile		-		Water heating energy efficiency	η _{wh}	-	%	

Declared load profile		-		Water heating energy efficiency	η wh	-	%
Daily electricity consumption	Q _{clec}	-	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					
Declared climate condition:	WARMER					
Parameters are declared for medium-temperat	ure application.					

Г

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit	
Rated heat output (*)	Prated	8.6	kW	Seasonal space heating energy efficiency	ηs	180.3	%	
Declared capacity for heating for part load and outdoor temperature Tj	at indoor temp	perature 20 °C	;	Declared coefficient of performance or prim indoor temperature 20 °C and outdoor temp	ary energy ra perature Tj	itio for part loa	ıd at	
Tj = −7 °C	Pdh	-	kW	Tj = -7℃	COPd	-	-	
Tj = 2℃	Pdh	8.06	kW	Tj = 2℃	COPd	2.59	-	
Tj = 7 ℃	Pdh	5.54	kW	Tj = 7℃	COPd	4.10	-	
Tj = 12℃	Pdh	2.53	kW	Tj = 12℃	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 $^\circ\!\!\mathbb{C}$	Pdh	-	kW	For air-to-water heat pumps: Tj = -15 $^\circ\!\!\mathbb{C}$	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 ad	ctive mode			Supplementary heater				
Off mode	Poff	0.014	kW	Rated heat output (**)	Psup	0.48	kW	
Standby mode	Psb	0.014	kW		1 Sup	0.40	KVV	
Thermostat-off mode	Pto	0.024	kW	Type of energy input		Electrical		
Crankcase heater mode	Pck	0.000	kW					
Other items								
Capacity control		variable		For air-to-water heat pumps: Rated air flow rate, outdoors	-	4030	m³/h	
Sound power level, indoors/outdoors	L _{WA}	-	dB	For water-or brine-to-water heat pumps: Rated brine or water flow rate, outdoor	-	-	m³/h	
Annual energy consumption	Q _{HE}	2516	kWh	heat exchanger				
For heat pump combination heater:								
Declared load profile		-		Water heating energy efficiency	η _{wh}	-	%	
Daily electricity consumption	Q _{clec}	-	kWh	Daily fuel consumption	Q _{fuel}	-	kWh	
Annual electricity consumption	AEC	-	kWh	Annual fuel consumption	AFC	-	GJ	
Contact details				guipment Co. Ltd Inde, 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):	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	e application.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	11.6	kW	Seasonal space heating energy efficiency	ηs	135.1	%
Declared capacity for heating for part load and outdoor temperature Tj	at indoor temp	perature 20 °C	;	Declared coefficient of performance or prim indoor temperature 20 °C and outdoor temp		itio for part loa	d at
Tj = -7 ℃	Pdh	10.24	kW	Tj = -7℃	COPd	2.01	-
Tj = 2°C	Pdh	6.52	kW	Tj = 2℃	COPd	3.44	-
Tj = 7°℃	Pdh	4.36	kW	Tj = 7℃	COPd	4.59	-
Tj = 12℃	Pdh	3.29	kW	Tj = 12 ℃	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 $^{\circ}$ C	Pdh	-	kW	For air-to-water heat pumps: Tj = -15 $^\circ\!\!\mathbb{C}$	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 a	ctive mode			Supplementary heater			
Off mode	Poff	0.014	kW	Rated heat output (**)	Psup	1.23	kW
Standby mode	Psb	0.014	kW		i sup	1.20	KVV
Thermostat-off mode	Pto	0.024	kW	Type of energy input		Electrical	
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	L _{WA}	-/65	dB	For water-or brine-to-water heat pumps: Rated brine or water flow rate, outdoor	-	-	m³/h
Annual energy consumption	Q _{HE}	6927	kWh	heat exchanger			
For heat pump combination heater:							
Declared load profile		-		Water heating energy efficiency	η _{wh}	-	%
Daily electricity consumption	Q _{clec}	-	kWh	Daily fuel consumption	Q _{fuel}	-	kWł
Annual electricity consumption	AEC	-	kWh	Annual fuel consumption	AFC	-	GJ
Contact details				guipment Co. Ltd Inde, 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.

		Ieci	nnical	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	er:			NO			
Heat pump combination heater:				NO			
Declared climate condition:				COLDER			
Parameters are declared for medium-	temperature	e application) .				
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	10.3	kW	Seasonal space heating energy efficiency	ηs	117.8	%
Declared capacity for heating for part load and outdoor temperature Tj		Derature 20 °C	>	Declared coefficient of performance or prim indoor temperature 20 °C and outdoor temp	ary energy ra		ad at
Tj = -7℃	Pdh	6.63	kW	Tj = -7℃	COPd	2.63	-
Tj = 2℃	Pdh	4.06	kW	Tj = 2℃	COPd	3.60	-
	Pdh	2.78	kW	Tj = 7℃	COPd	4.54	-
Tj = 7℃	Pdh		kW	•	COPd		<u> </u>
$Tj = 12^{\circ}C$ Tj = bivalent temperature		3.33		$Tj = 12^{\circ}C$		6.25	-
	Pdh	8.41	kW	Tj = bivalent temperature	COPd	1.84	<u> </u>
Tj = operating limit	Pdh Pdh	4.19	kW kW	Tj = operating limit	COPd COPd	1.13	-
For air-to-water heat pumps: Tj = -15° C	Pun	-	KVV	For air-to-water heat pumps: $Tj = -15^{\circ}C$	COFu	-	-
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 a	ctive mode			Supplementary heater			
Off mode	Poff	0.014	kW	Rated heat output (**)	Psup	6.11	kW
Standby mode	Psb	0.014	kW		i sup	0.11	KVV
Thermostat-off mode	Pto	0.024	kW	Type of energy input		Electrical	
Crankcase heater mode	Pck	0.000	kW			Lieotiioai	
Other items							
Capacity control		variable		For air-to-water heat pumps: Rated air flow rate, outdoors	-	4060	m³/h
Sound power level, indoors/outdoors	L _{WA}	-	dB	For water-or brine-to-water heat pumps: Rated brine or water flow rate, outdoor	-	-	m³/h
Annual energy consumption	Q _{HE}	8419	kWh	heat exchanger			
For heat pump combination heater:							
Declared load profile		-		Water heating energy efficiency	^ŋ wh	-	%
Daily electricity consumption	Q _{clec}	-	kWh	Daily fuel consumption	Q _{fuel}	-	kW
Annual electricity consumption	AEC	-	kWh	Annual fuel consumption	AFC	-	GJ
Contact details				uipment Co. Ltd nde, Foshan, Guangdong, P.R China)			

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.

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 heate	er:			NO						
Heat pump combination heater:			NO							
Declared climate condition:				WARMER						
Parameters are declared for medium-	temperature	application								
	•									
Item	Symbol	Value	Unit	Item	Symbol	Value	Uni			
Rated heat output (*)	Prated	12.5	kW	Seasonal space heating energy efficiency	ηs	174.0	%			
Declared capacity for heating for part load and outdoor temperature Tj	at indoor temp	oerature 20 °C	:	Declared coefficient of performance or prima indoor temperature 20 °C and outdoor temp		tio for part lo	ad at			
Tj = -7℃	Pdh	-	kW	Tj = -7℃	COPd	-	-			
Tj = 2℃	Pdh	12.07	kW	Tj = 2 ℃	COPd	2.31	-			
Tj = 7℃	Pdh	8.04	kW	Tj = 7 ℃	COPd	3.86	-			
Tj = 12℃	Pdh	3.75	kW	Tj = 12℃	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 $^{\circ}$ C	Pdh	-	kW	For air-to-water heat pumps: Tj = -15 $^{\circ}$ 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 a	ctive mode			Supplementary heater						
Off mode	Poff	0.014	kW		_					
Standby mode	Psb	0.014	kW	Rated heat output (**)	Psup	0.43	kW			
Thermostat-off mode	Pto	0.024	kW	Type of energy input		Electrical				
Crankcase heater mode	Pck	0.000	kW	Type of energy input		Liectrical				
Other items										
Capacity control		variable		For air-to-water heat pumps: Rated air flow rate, outdoors	-	4060	m³/h			
Sound power level, indoors/outdoors	L _{WA}	-	dB	For water-or brine-to-water heat pumps: Rated brine or water flow rate, outdoor	_		m³/h			
Annual energy consumption	Q _{HE}	3776	kWh	heat exchanger						
For heat pump combination heater:										
Declared load profile		-		Water heating energy efficiency	η _{wh}	-	%			
Daily electricity consumption	Q _{clec}	-	kWh	Daily fuel consumption	Q _{fuel}	-	kW			
Annual electricity consumption	AEC	-	kWh	Annual fuel consumption	AFC	-	GJ			
Contact details				uipment Co. Ltd nde, Foshan, Guangdong, P.R China)						

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

Model(s):				MLI016HMAA				
Air-to-water heat pump:	numb:			YES				
Water-to-water heat pump:				NO				
Brine-to-water heat pump:				NO				
Low-temperature heat pump:				NO				
Equipped with a supplementary heat	er:			NO				
Heat pump combination heater:			NO					
Declared climate condition:			AVERAGE					
Parameters are declared for medium	-temperature	application						
	temperature		•					
Item	Symbol	Value	Unit	Item	Symbol	Value	Uni	
Rated heat output (*)	Prated	13.0	kW	Seasonal space heating energy efficiency	ηs	133.3	%	
Declared capacity for heating for part load and outdoor temperature Tj	at indoor temp	perature 20 °C	;	Declared coefficient of performance or prim indoor temperature 20 °C and outdoor temp		tio for part loa	ad at	
Ti = -7℃	Pdh	11.52	kW	Tj = -7℃	COPd	1.99	-	
Tj = 2℃	Pdh	7.18	kW		COPd	3.34	-	
Tj = 7℃	Pdh	4.67	kW	Tj = 7℃	COPd	4.61	-	
-	Pdh	3.31	kW	Tj = 12℃	COPd	6.07	-	
$Tj = 12^{\circ}C$ Tj = bivalent temperature				Tj = bivalent temperature			-	
Tj = operating limit	Pdh Pdh	11.52	kW kW	Tj = operating limit	COPd COPd	1.99		
	Pdh	10.33	kW		COPd	1.00		
For air-to-water heat pumps: $Tj = -15^{\circ}C$ Bivalent temperature	Tbiv	-7	°C	For air-to-water heat pumps: $Tj = -15^{\circ}C$ For air-to-water heat pumps:	TOL	-10	°C	
-				Operation limit temperature			_	
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 a				Supplementary heater			-	
Off mode	Poff	0.014	kW	Rated heat output (**)	Psup	2.68	kW	
Standby mode	Psb	0.014	kW					
Thermostat-off mode	Pto	0.024	kW	Type of energy input		Electrical		
Crankcase heater mode	Pck	0.000	kW					
Other items								
Capacity control		variable		For air-to-water heat pumps: Rated air flow rate, outdoors	-	4650	m ³ /h	
Sound power level, indoors/outdoors	L _{WA}	-/68	dB	For water-or brine-to-water heat pumps: Rated brine or water flow rate, outdoor	_	-	m³/h	
Annual energy consumption	Q _{HE}	7895	kWh	heat exchanger				
For heat pump combination heater:								
Declared load profile		-		Water heating energy efficiency	η _{wh}	-	%	
Daily electricity consumption	Q _{clec}	-	kWh	Daily fuel consumption	Q _{fuel}	-	kW	
Annual electricity consumption	AEC	-	kWh	Annual fuel consumption	AFC	-	GJ	
Contact details				uipment Co. Ltd nde, Foshan, Guangdong, P.R China)	ľ		÷	

(**) If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0.9.

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	er:		NO									
Heat pump combination heater:				NO								
Declared climate condition:				COLDER								
Parameters are declared for medium-	temperature	application										
Item	Symbol	Value	Unit	Item	Symbol	Value	Uni					
Rated heat output (*)	Prated	11.8	kW	Seasonal space heating energy efficiency	ηs	121.8	%					
Declared capacity for heating for part load a and outdoor temperature Tj	at indoor temp	erature 20 °C	;	Declared coefficient of performance or prim indoor temperature 20 °C and outdoor temp		tio for part loa	ad at					
Tj = −7°C	Pdh	7.64	kW	T j = -7 ℃	COPd	2.65	-					
Tj = 2℃	Pdh	4.42	kW		COPd	3.79	-					
Tj = 7℃	Pdh	2.97	kW	Tj = 7℃	COPd	4.81	-					
Ti = 12℃	Pdh	3.43	kW	Tj = 12℃	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	<u> </u>					
	Pdh	0.21 -	kW		COPd	-	-					
For air-to-water heat pumps: Tj = -15°C		45	°C	For air-to-water heat pumps: $Tj = -15^{\circ}C$ For air-to-water heat pumps:			°C					
Bivalent temperature	Tbiv	-15	C	Operation limit temperature	TOL	-22						
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 ac	ctive mode			Supplementary heater			1					
Off mode	Poff	0.014	kW	Rated heat output (**)	Psup	6.59	kW					
Standby mode	Psb	0.014	kW		1 Sup	0.00	, NV					
Thermostat-off mode	Pto	0.024	kW	Type of energy input		Electrical						
Crankcase heater mode	Pck	0.000	kW	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		2100011001						
Other items	1											
Capacity control		variable		For air-to-water heat pumps: Rated air flow rate, outdoors	-	4650	m³/h					
Sound power level, indoors/outdoors	L _{WA}	-	dB	For water-or brine-to-water heat pumps: Rated brine or water flow rate, outdoor	-	-	m³/h					
Annual energy consumption	Q _{HE}	9309	kWh	heat exchanger								
For heat pump combination heater:												
Declared load profile		-		Water heating energy efficiency	η _{wh}	-	%					
Daily electricity consumption	Q _{clec}	-	kWh	Daily fuel consumption	Q _{fuel}	-	kW					
Annual electricity consumption	AEC	-	kWh	Annual fuel consumption	AFC	-	GJ					
Contact details				uipment Co. Ltd nde, Foshan, Guangdong, P.R China)								

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.

Model(s):				MLI016HMAA							
Air-to-water heat pump:				YES							
Water-to-water heat pump:				NO							
Brine-to-water heat pump:											
Low-temperature heat pump:			NO NO								
Equipped with a supplementary heate	r.			NO							
Heat pump combination heater:	1.			NO							
Declared climate condition:				WARMER							
Parameters are declared for medium-	temperature	application		TARGET							
	lemperature										
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit				
Rated heat output (*)	Prated	13.8	kW	Seasonal space heating energy efficiency	ηs	176.1	%				
Declared capacity for heating for part load a and outdoor temperature Tj	at indoor temp	berature 20 °C	;	Declared coefficient of performance or prim indoor temperature 20 °C and outdoor temp	, 0,	tio for part lo	ad at				
Tj = -7℃	Pdh	-	kW	T j = -7℃	COPd	-	-				
Tj = 2℃	Pdh	13.38	kW	Ti = 2°C	COPd	2.29	-				
Ti = 7°C	Pdh	8.86	kW	Ti = 7℃	COPd	3.84	-				
Ti = 12℃	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: $T_j = -15^{\circ}C$	Pdh	-	kW	For air-to-water heat pumps: Tj = -15℃	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 ac	tive mode	<u> </u>	1	Supplementary heater							
Off mode	Poff	0.014	kW								
Standby mode	Psb	0.014	kW	Rated heat output (**)	Psup	0.42	kW				
Thermostat-off mode	Pto	0.024	kW	-			-				
Crankcase heater mode	Pck	0.000	kW	Type of energy input		Electrical					
Other items	1	1			L						
Capacity control		variable		For air-to-water heat pumps: Rated air flow rate, outdoors	-	4650	m³/h				
Sound power level, indoors/outdoors	L _{WA}	-	dB	For water-or brine-to-water heat pumps: Rated brine or water flow rate, outdoor	-	-	m³/h				
Annual energy consumption	Q _{HE}	4112	kWh	heat exchanger							
For heat pump combination heater:											
Declared load profile		-		Water heating energy efficiency	η _{wh}	-	%				
Daily electricity consumption	Q _{clec}	-	kWh	Daily fuel consumption	Q _{fuel}	-	kWh				
Annual electricity consumption	AEC	-	kWh	Annual fuel consumption	AFC	-	GJ				
Contact details				iipment Co. Ltd ide, Foshan, Guangdong, P.R China)							

		Tech	nnıcal	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 heate	r:			NO							
Heat pump combination heater:				NO							
Declared climate condition:				AVERAGE							
Parameters are declared for medium-	temperature	application	l.								
lite re	Symbol	Value	Unit	Item	Symbol	Value	Lini				
Item	Symbol				-		Uni [*]				
Rated heat output (*)	Prated	13.0	kW	Seasonal space heating energy efficiency	ηs	133.2					
Declared capacity for heating for part load a and outdoor temperature Tj	at indoor temp	erature 20 °C	;	Declared coefficient of performance or prim indoor temperature 20 °C and outdoor temp		tio for part loa	ad at				
Tj = -7℃	Pdh	11.52	kW	Tj = -7℃	COPd	1.99	-				
Tj = 2℃	Pdh	7.18	kW	Tj = 2 ℃	COPd	3.34	-				
Tj = 7℃	Pdh	4.67	kW	Tj = 7 ℃	COPd	4.61	-				
Tj = 12℃	Pdh	3.31	kW		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 $^{\circ}$ C	Pdh	-	kW	For air-to-water heat pumps: $T_j = -15^{\circ}$	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 ac	tive mode			Supplementary heater							
Off mode	Poff	0.020	kW								
Standby mode	Psb	0.020	kW	Rated heat output (**)	Psup	2.67	kW				
Thermostat-off mode	Pto	0.030	kW								
Crankcase heater mode	Pck	0.000	kW	Type of energy input		Electrical					
Other items											
Capacity control		variable		For air-to-water heat pumps: Rated air flow rate, outdoors	-	4650	m³/h				
Sound power level, indoors/outdoors	L _{WA}	-/68	dB	For water-or brine-to-water heat pumps: Rated brine or water flow rate, outdoor	-	-	m³/h				
Annual energy consumption	Q _{HE}	7896	kWh	heat exchanger							
For heat pump combination heater:											
Declared load profile		-		Water heating energy efficiency	η _{wh}	-	%				
Daily electricity consumption	Q _{clec}	-	kWh	Daily fuel consumption	Q _{fuel}	-	kW				
Annual electricity consumption	AEC	-	kWh	Annual fuel consumption	AFC	-	GJ				
Contact details				uipment Co. Ltd nde, Foshan, Guangdong, P.R China)							

(**) If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0.9.

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 heate	er:			NO								
Heat pump combination heater:				NO								
Declared climate condition:				COLDER								
Parameters are declared for medium	temperature	e application	l.									
lte ere	Cumbal	Value	Unit	Item	Symbol	Value	L les					
Item	Symbol	11.8	kW		-		Uni %					
Rated heat output (*) Declared capacity for heating for part load	Prated			Seasonal space heating energy efficiency	ηs	121.8						
and outdoor temperature Tj	at indoor temp	berature 20 °C	,	Declared coefficient of performance or prima indoor temperature 20 °C and outdoor temp		io for part loa	adat					
Tj = -7 ℃	Pdh	7.64	kW	Tj = -7℃	COPd	2.65	-					
Tj = 2 ℃	Pdh	4.42	kW	Tj = 2℃	COPd	3.79	-					
Tj = 7 ℃	Pdh	2.97	kW	Tj = 7℃	COPd	4.81	-					
Tj = 12℃	Pdh	3.43	kW	Tj = 12℃	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 $^{\circ}$ C	Pdh	-	kW	For air-to-water heat pumps: Tj = -15 $^{\circ}$ 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 a	ctive mode			Supplementary heater								
Off mode	Poff	0.020	kW	Rated heat output (**)	Psup	0.50						
Standby mode	Psb	0.020	kW		Fsup	6.59	kW					
Thermostat-off mode	Pto	0.030	kW	Type of energy input		Electrical						
Crankcase heater mode	Pck	0.000	kW			Liootiloui						
Other items												
Capacity control		variable		For air-to-water heat pumps: Rated air flow rate, outdoors	-	465 0	m³/h					
Sound power level, indoors/outdoors	L _{WA}	-	dB	For water-or brine-to-water heat pumps: Rated brine or water flow rate, outdoor	-	-	m³/h					
Annual energy consumption	Q _{HE}	9310	kWh	heat exchanger								
For heat pump combination heater:												
Declared load profile		-		Water heating energy efficiency	η wh	-	%					
Daily electricity consumption	Q _{clec}	-	kWh	Daily fuel consumption	Q _{fuel}	-	kW					
Annual electricity consumption	AEC	-	kWh	Annual fuel consumption	AFC	-	GJ					
Contact details				uipment Co. Ltd nde, Foshan, Guangdong, P.R China)								

(**) If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0.9.

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 heate	er:			NO								
Heat pump combination heater:				NO								
Declared climate condition:				WARMER								
Parameters are declared for medium-	temperature	application	<u> </u>									
	tomporatare	application	•									
Item	Symbol	Value	Unit	Item	Symbol	Value	Uni					
Rated heat output (*)	Prated	13.8	kW	Seasonal space heating energy efficiency	ηs	175.9	%					
Declared capacity for heating for part load and outdoor temperature Tj	at indoor temp	erature 20 °C	;	Declared coefficient of performance or prim indoor temperature 20 °C and outdoor temp		tio for part loa	ad at					
Tj = -7 ℃	Pdh	-	kW	Tj = -7℃	COPd	-	-					
Tj = 2℃	Pdh	13.38	kW		COPd	2.29	-					
Tj = 7℃	Pdh	8.86	kW	Tj = 7℃	COPd	3.84	-					
Tj = 12℃	Pdh	4.06	kW	Tj = 12℃	COPd	5.86	<u> </u>					
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	<u> </u>					
· · ·	Pdh	-	kW		COPd		<u> </u>					
For air-to-water heat pumps: $Tj = -15^{\circ}C$ Bivalent temperature	Tbiv	7	°C	For air-to-water heat pumps: Tj = -15°C For air-to-water heat pumps: Operation limit temperature	TOL	2	°C					
Cycling interval capacity for heating	Pcych	-	kW	Cycling interval efficiency	COPcyc	-	<u> </u>					
Degradation co-efficient (**)	Cdh	0.9		Heating water operating limit temperature	WTOL	62	°C					
Power consumption in modes other than a	ctive mode			Supplementary heater			-					
Off mode	Poff	0.014	kW									
Standby mode	Psb	0.014	kW	Rated heat output (**)	Psup	0.42	kW					
Thermostat-off mode	Pto	0.029	kW				-					
Crankcase heater mode	Pck	0.000	kW	Type of energy input		Electrical						
Other items	1											
Capacity control		variable		For air-to-water heat pumps: Rated air flow rate, outdoors	-	465 0	m³/h					
Sound power level, indoors/outdoors	L _{WA}	-	dB	For water-or brine-to-water heat pumps: Rated brine or water flow rate, outdoor	-	-	m³/h					
Annual energy consumption	Q _{HE}	4116	kWh	heat exchanger								
For heat pump combination heater:												
Declared load profile		-		Water heating energy efficiency	η wh	-	%					
Daily electricity consumption	Q _{clec}	-	kWh	Daily fuel consumption	Q _{fuel}	-	kW					
Annual electricity consumption	AEC	-	kWh	Annual fuel consumption	AFC	-	GJ					
Contact details				uipment Co. Ltd nde, Foshan, Guangdong, P.R China)								

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

Model(s):			MLI006HMA	A							
Outdoor side heat e	exchanger of c	hiller:	Air to water								
Indoor side heat ex	changer chille	r:	Water								
Туре:			Compressor driven vapour compression								
Driver of compress	or:		Electric moto	Electric motor							
Item	Symbol	Value	Unit		ltem	Symbol	Value	Unit			
Rated cooling capacity	P _{rated,c}	6.3	kW		Seasonal space cooling energy efficiency	η _{s,c}	210.7	%			
Declared cooling c temperature Tj	apacity for pa	rt load at giver	n outdoor		Declared energy ef outdoor temperatur		or part load at	given			
Tj =+35 ℃	P _{dc}	6.35	kW		Tj=+35℃	EER₀	2.93	-			
Tj =+30 ℃	P _{dc}	4.76	kW		Tj=+30℃	EER₀	4.53	-			
Tj=+25℃	P _{dc}	3.02	kW		Tj=+25 ℃	EER₫	6.32	-			
Tj=+20℃	P _{dc}	1.39	kW		Tj=+20℃	EERd	7.20	-			
Degradation co-efficient for chillers (*)	C _{dc}	0.9	-								
		Power cons	sumption in mo	de	s other than "active	mode"					
Off mode	Poff	0.014	kW		Crankcase heater mode	Рск	0.000	kW			
Thermosat-off mode	Рто	0.010	kW		Standby mode	P _{SB}	0.014	kW			
			Othe	er i	tems						
Capacity control		variable			For air-to-water comfort chillers:		0770	3/1-			
Sound power level, indoors / outdoors	L _{WA}	-/60	dB		air flow rate, outdoor measured	-	2770	m³/h			
Emissions of nitroger oxides (if applicable)	NO _× (**)	-	mg/kWh input GCV		For water / brine-to-water chillers: Rated brine or			m³/h			
GWP of the refrigerant	-	675	kg CO _{2 eq} (100years)		water flow rate, outdoor side heat exchanger	-	-	1117/11			
Standard rating co	nditions used	Low tempera	ature applicatio	n							
Contact details					ng Equipment Co. , o, Shunde, Foshan,		28311 P.R. Ch	iina			
(*) If Cdc is not det (**) From 26 Septe		easurement th	en the default	de	gradation coefficient	of chillers sha	all be 0,9.				

Model(s):			MLI006HMA	A							
Outdoor side heat e	exchanger of c	hiller:	Air to water								
Indoor side heat ex	changer chille	r:	Water								
Туре:			Compressor	driven vapour compres	ssion						
Driver of compress	or:		Electric motor								
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit				
Rated cooling capacity	P _{rated,c}	6.5	kW	Seasonal space cooling energy efficiency	η _{s,c}	325.2	%				
Declared cooling of temperature Tj	capacity for pa	rt load at giver	n outdoor	Declared energy e outdoor temperatu		or part load at	given				
Tj=+35℃	P _{dc}	6.55	kW	Tj =+35 ℃	EER₀	4.69	-				
Tj=+30℃	P _{dc}	4.84	kW	Tj =+30 ℃	EERd	7.16	-				
Tj=+25℃	P _{dc}	3.26	kW	Tj =+25 ℃	EER₫	9.64	-				
Tj=+20℃	P _{dc}	1.41	kW	Tj=+20℃	EERd	11.48	-				
Degradation co-efficient for chillers (*)	C _{dc}	0.9	-								
		Power cons	sumption in mo	des other than "active	mode"						
Off mode	P _{OFF}	0.014	kW	Crankcase heater mode	Р _{СК}	0.000	kW				
Thermosat-off mode	P _{TO}	0.010	kW	Standby mode	P_{SB}	0.014	kW				
			Othe	er items							
Capacity control		variable		For air-to-water comfort chillers:		2770	m³/h				
Sound power level, indoors /outdoors	Lwa	-/58	dB	air flow rate, outdoor measured	-	2110	111711				
Emissions of nitroger oxides (if applicable)	NO _x (**)	-	mg/kWh input GCV	For water / brine-to-wate chillers: Rated brine o	-	-	m³/h				
GWP of the refrigerant	-	675	kg CO _{2 eq} (100years)	water flow rate, outdoor side heat exchanger			,				
Standard rating co	onditions used	Medium tem	perature applic	cation							
Contact details				ating Equipment Co. , jiao, Shunde, Foshan,		28311 P.R. Ch	iina				
(*) If Cdc is not det (**) From 26 Sept		easurement th	en the default	degradation coefficien	t of chillers sha	all be 0,9.					

Model(s):			MLI008HMA	A							
Outdoor side heat e	exchanger of c	hiller:	Air to water								
Indoor side heat exe	changer chille	r:	Water								
Туре:			Compressor driven vapour compression								
Driver of compresso	or:		Electric moto	Electric motor							
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit				
Rated cooling capacity	P _{rated,c}	7.4	kW	Seasonal space cooling energy efficiency	η s,c	230.1	%				
Declared cooling c temperature Tj	apacity for pa	rt load at giver	n outdoor	Declared energy eff outdoor temperatur		or part load at	given				
Tj=+35℃	P _{dc}	7.38	kW	Tj=+35℃	EERd	3.39	-				
Tj=+30℃	P _{dc}	5.72	kW	Tj =+30 ℃	EER₫	4.71	-				
Tj=+25℃	P _{dc}	3.62	kW	Tj=+25° ℃	EER₀	6.65	-				
Tj=+20℃	P _{dc}	1.64	kW	Tj=+20℃	EERd	8.55	-				
Degradation co-efficient for chillers (*)	C _{dc}	0.9	-								
		Power cons	sumption in mo	des other than "active r	mode"						
Off mode	P _{OFF}	0.014	kW	Crankcase heater mode	Рск	0.000	kW				
Thermosat-off mode	P _{TO}	0.010	kW	Standby mode	P _{SB}	0.014	kW				
			Othe	eritems							
Capacity control		variable		For air-to-water comfort chillers:		4020					
Sound power level, indoors /outdoors	L _{WA}	-/60	dB	air flow rate, outdoor measured	-	4030	m³/h				
Emissions of nitroger oxides (if applicable)	NO _x (**)	-	mg/kWh input GCV	For water / brine-to-wate chillers: Rated brine of	_		m³/h				
GWP of the refrigerant	-	675	kg CO _{2 eq} (100years)	water flow rate, outdoor side heat exchanger							
Standard rating co	nditions used	Low temper	ature applicatio	n							
Contact details		GD Midea H Penglai indu	leating & Ventil Istry Road, Beij	ating Equipment Co. , I jiao, Shunde, Foshan, G	_td. Guangdong, 5	28311 P.R. Ch	ina				
		Penglai indu	istry Road, Beij	ating Equipment Co. , I jiao, Shunde, Foshan, (degradation coefficient	Guangdong, 5		iina				

Model(s):			MLI008HMA	4							
Outdoor side heat	exchanger of o	chiller:	Air to water								
Indoor side heat ex	changer chille	r:	Water								
Туре:			Compressor driven vapour compression								
Driver of compress	sor:		Electric motor	Electric motor							
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit				
Rated cooling capacity	P _{rated,c}	8.4	kW	Seasonal space cooling energy efficiency	η s,c	355.1	%				
Declared cooling temperature Tj	capacity for pa	rt load at giver	n outdoor	Declared energy eff outdoor temperature		or part load at	given				
Tj=+35℃	P _{dc}	8.37	kW	Tj=+35℃	EER₫	5.09	-				
Tj=+30 ℃	P _{dc}	6.47	kW	Tj=+30℃	EER₫	7.02	-				
Tj=+25 ℃	P _{dc}	4.31	kW	Tj=+25℃	EER₫	10.67	-				
Tj=+20 ℃	P _{dc}	1.80	kW	Tj=+20℃	EERd	13.61	-				
Degradation co-efficient for chillers (*)	C _{dc}	0.9	-								
		Power cons	sumption in mod	des other than "active n	node"						
Off mode	P _{OFF}	0.014	kW	Crankcase heater mode	Рск	0.000	kW				
Thermosat-off mode	P _{TO}	0.010	kW	Standby mode	P_{SB}	0.014	kW				
			Othe	r items							
Capacity control		variable		For air-to-water comfort chillers:		4030	m³/h				
Sound power level, indoors /outdoors	Lwa	-/60	dB	air flow rate, outdoor measured	-	4030	m~n				
Emissions of nitroger oxides (if applicable)	NO _× (**)	-	mg/kWh input GCV	For water / brine-to-wate chillers: Rated brine of	_		m³/h				
GWP of the _ 675			kg CO _{2 eq} (100years)	water flow rate, outdoor side heat exchanger	-						
GWP of the refrigerant	-		nperature application								
GWP of the	- onditions used	Medium tem	perature applic	ation							

Model(s):			MLI010HMA	A							
Outdoor side heat e	exchanger of c	hiller:	Air to water								
Indoor side heat exe	changer chille	r:	Water								
Туре:			Compressor driven vapour compression								
Driver of compresso	or:		Electric motor								
Item	Symbol	Value	Unit		Item	Symbol	Value	Unit			
Rated cooling capacity	P _{rated,c}	8.7	kW		Seasonal space cooling energy efficiency	η _{s,c}	236.2	%			
Declared cooling c temperature Tj	apacity for pa	n outdoor		Declared energy ef outdoor temperatur		or part load at	given				
Tj =+35 ℃	P _{dc}	8.73	kW		Tj=+35 ℃	EER₀	3.21	-			
Tj =+30 ℃	P _{dc}	6.68	kW	ĺ	Tj=+30 ℃	EERd	4.47	-			
Tj=+25℃	P _{dc}	4.26	kW	ĺ	Tj=+25 ℃	EER₀	7.02	-			
Tj=+20 ℃	P _{dc}	1.94	kW		Tj=+20 ℃	EERd	9.54	-			
Degradation co-efficient for chillers (*)	C _{dc}	0.9	-								
		Power cons	sumption in mo	de	s other than "active i	mode"					
Off mode	Poff	0.014	kW		Crankcase heater mode	Рск	0.000	kW			
Thermosat-off mode	Рто	0.010	kW		Standby mode	P _{SB}	0.014	kW			
			Othe	er it	tems						
Capacity control		variable			For air-to-water comfort chillers:		4020	3.4			
Sound power level, indoors / outdoors	Lwa	-/60	dB		air flow rate, outdoor measured	-	4030	m³/h			
Emissions of nitroger oxides (if applicable)	NO _x (**)	-	mg/kWh input GCV		For water / brine-to-wate chillers: Rated brine or			m³/h			
GWP of the refrigerant	-	675	kg CO _{2 eq} (100years)		water flow rate, outdoor side heat exchanger	-					
Standard rating co	nditions used	Low tempera	ature applicatio	n							
Contact details			Heating & Ventilating Equipment Co. , Ltd. ustry Road, Beijiao, Shunde, Foshan, Guangdong, 528311 P.R. China								
(*) If Cdc is not deta (**) From 26 Septe		easurement th	en the default c	deç	gradation coefficient	of chillers sha	ll be 0,9.				

Model(s):			MLI010HMA	4							
Outdoor side heat	exchanger of c	hiller:	Air to water								
Indoor side heat e>	changer chille	r:	Water								
Туре:			Compressor driven vapour compression								
Driver of compress	or:		Electric motor	Electric motor							
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit				
Rated cooling capacity	P _{rated,c}	10.0	kW	Seasonal space cooling energy efficiency	η _{s,c}	348.1	%				
Declared cooling of temperature Tj	capacity for pa	rt load at give	n outdoor	Declared energy eff outdoor temperatur		or part load at	given				
Tj=+35℃	P _{dc}	10.01	kW	Tj=+35℃	EER₫	4.64	-				
Tj=+30 ℃	P _{dc}	7.71	kW	Tj=+30℃	EER₫	6.45	-				
Tj=+25 ℃	P _{dc}	5.03	kW	Tj =+25 ℃	EER₫	10.36	-				
Tj=+20 ℃	P _{dc}	2.32	kW	Tj =+20 ℃	EERd	14.98	-				
Degradation co-efficient for chillers (*)	C _{dc}	0.9	-								
		Power con	sumption in mod	des other than "active r	node"						
							<u> </u>				
Off mode	P _{OFF}	0.014	kW	Crankcase heater mode	Рск	0.000	kW				
Off mode Thermosat-off mode	P _{OFF} P _{TO}	0.014	kW kW		Р _{СК} Р _{SB}	0.000	kW kW				
Thermosat-off			kW	mode							
Thermosat-off			kW	mode Standby mode		0.014	kW				
Thermosat-off mode		0.010	kW	mode Standby mode r items For air-to-water			kW				
Thermosat-off mode Capacity control Sound power level,	Рто	0.010 variable	kW Othe	mode Standby mode r items For air-to-water comfort chillers: air flow rate,		0.014	kW m³/h				
Thermosat-off mode Capacity control Sound power level, indoors /outdoors Emissions of nitroger	Pto Lwa	0.010 variable	kW Othe dB mg/kWh	mode Standby mode Standby mode r items For air-to-water comfort chillers: air flow rate, outdoor measured For water / brine-to-wate		0.014	kW				
Thermosat-off mode Capacity control Sound power level, indoors / outdoors Emissions of nitroger oxides (if applicable) GWP of the	Рто	0.010 variable -/60 - 675	kW Othe dB mg/kWh input GCV kg CO2 eq	mode Standby mode r items For air-to-water comfort chillers: air flow rate, outdoor measured For water / brine-to-wate chillers: Rated brine o water flow rate, outdoo side heat exchanger		0.014	kW m³/h				

Model(s):			MLI012HMA	A								
Outdoor side heat e	exchanger of c	hiller:	Air to water									
Indoor side heat exe	changer chille	r:	Water	Water								
Туре:			Compressor driven vapour compression									
Driver of compresso	or:		Electric motor									
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit					
Rated cooling capacity	P _{rated,c}	11.3	kW	Seasonal space cooling energy efficiency	η s,c	192.4	%					
Declared cooling c temperature Tj	apacity for pa	rt load at giver	n outdoor	Declared energy et outdoor temperatu		or part load at	given					
Tj=+35℃	P _{dc}	11.31	kW	Tj=+35℃	EERd	2.61	-					
Tj=+30 ℃	P _{dc}	8.76	kW	Tj=+30℃	EERd	3.93	-					
Tj=+25℃	P _{dc}	5.81	kW	Tj=+25℃	EER₫	5.73	-					
Tj=+20℃	P _{dc}	2.63	kW	Tj=+20 ℃	EERd	6.75	-					
Degradation co-efficient for chillers (*)	C _{dc}	0.9	-									
		Power cons	sumption in mo	des other than "active	mode"							
Off mode	P _{OFF}	0.014	kW	Crankcase heater mode	Рск	0.000	kW					
Thermosat-off mode	P _{TO}	0.010	kW	Standby mode	P _{SB}	0.014	kW					
			Othe	eritems								
Capacity control		variable		For air-to-water comfort chillers:		4060	m³/h					
Sound power level, indoors /outdoors	Lwa	-/65	dB	air flow rate, outdoor measured	-	4000	m~m					
Emissions of nitroger oxides (if applicable)	NO _x (**)	-	mg/kWh input GCV	For water / brine-to-water chillers: Rated brine of	_	_	m³/h					
GWP of the refrigerant	-	675	kg CO _{2 eq} (100years)	water flow rate, outdoor side heat exchanger								
Standard rating co	nditions used	Low tempera	ature applicatio	n								
Contact details				ating Equipment Co. , jiao, Shunde, Foshan,		28311 P.R. Cł	nina					
Standard rating con	ermined by m	GD Midea H Penglai indu	ature applicatio leating & Venti istry Road, Bei	n lating Equipment Co. ,	Guangdong, 5		iina					

Model(s):			MLI012HMAA							
Outdoor side heat e	exchanger of c	hiller:	Air to water							
Indoor side heat exchanger chiller:			Water							
Гуре:			Compressor	driven vapour compres	sion					
Driver of compress	or:		Electric motor	r						
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit			
Rated cooling capacity	P _{rated,c}	11.8	kW	Seasonal space cooling energy efficiency	η s,c	280.9	%			
Declared cooling o temperature Tj	apacity for pa	rt load at giver	n outdoor	Declared energy ef outdoor temperatur		or part load at	given			
Tj=+35℃	P _{dc}	11.77	kW	Tj=+35℃	EERd	3.87	-			
Tj=+30℃	P _{dc}	9.21	kW	Tj=+30℃	EERd	5.50	-			
Tj=+25℃	P _{dc}	5.74	kW	Tj=+25℃	EER₫	8.66	-			
Tj=+20℃	P _{dc}	3.33	kW	Tj =+20 ℃	EERd	10.07	-			
Degradation co-efficient or chillers (*)	C _{dc}	0.9	-							
		Power cons	sumption in mod	des other than "active r	node"					
Off mode	P _{OFF}	0.014	kW	Crankcase heater mode	Рск	0.000	kW			
Thermosat-off mode	P _{TO}	0.010	kW	Standby mode	P _{SB}	0.014	kW			
			Othe	r items		I				
		variable		For air-to-water comfort chillers:	-	4060	m³/h			
Capacity control				air flow rate,						
Capacity control Sound power level, indoors /outdoors	L _{WA}	-/64	dB	air flow rate, outdoor measured	-					
Sound power level, indoors /outdoors Emissions of nitroger	L _{WA} NO _x (**)	-/64 -	dB mg/kWh input GCV				m ³ /h			
Sound power level,		-/64 - 675	mg/kWh	outdoor measured For water / brine-to-wate	-	-	m³/h			
Sound power level, indoors /outdoors Emissions of nitroger oxides (if applicable) GWP of the	NO _x (**) -	- 675	mg/kWh input GCV kg CO _{2 eq}	outdoor measured For water / brine-to-wate chillers: Rated brine or water flow rate, outdoor side heat exchanger	-	-	m³/h			

Model(s):			MLI016HMAA								
Outdoor side heat e	exchanger of c	:hiller:	Air to water								
Indoor side heat exe	changer chille	r:	Water	Water							
Туре:			Compressor	dri	iven vapour compres	sion					
Driver of compresso	or:		Electric moto	or							
Item	Symbol	Value	Unit		Item	Symbol	Value	Unit			
Rated cooling capacity	P _{rated,c}	14.3	kW		Seasonal space cooling energy efficiency	η s,c	184.4	%			
Declared cooling c temperature Tj	apacity for pa	rt load at giver	1 outdoor		Declared energy ef outdoor temperatur		or part load at	given			
Tj =+35 ℃	P _{dc}	14.31	kW		Tj=+35℃	EER₀	2.47	-			
Tj=+30℃	P _{dc}	10.68	kW		Tj=+30 ℃	EER₀	3.63	-			
Tj=+25℃	P _{dc}	6.76	kW		Tj=+25℃	EER₀	5.27	-			
Tj=+20℃	P _{dc}	3.41	kW		Tj=+20℃	EERd	7.29	-			
Degradation co-efficient											
for chillers (*)	C _{dc}	0.9	-								
		Power cons	sumption in mo	de	s other than "active i	mode"					
Off mode	P_{OFF}	0.014	kW		Crankcase heater mode	Рск	0.000	kW			
Thermosat-off mode	P _{TO}	0.010	kW		Standby mode	P_{SB}	0.014	kW			
			Othe	ər i	tems						
Capacity control		variable			For air-to-water comfort chillers:			2.0			
Sound power level, indoors /outdoors	L _{WA}	-/69	dB		air flow rate, outdoor measured	-	4650	m³/h			
Emissions of nitroger oxides (if applicable)	NO _x (**)	-	mg/kWh input GCV		For water / brine-to-wate chillers: Rated brine or			m³/h			
GWP of the refrigerant	-	675	kg CO _{2 eq} (100years)		water flow rate, outdoor side heat exchanger		-	111-711			
Standard rating co	nditions used	Low tempera	ature applicatio	on							
Contact details					ing Equipment Co. , o, Shunde, Foshan, (28311 P.R. Ch	iina			
(*) If Cdc is not det (**) From 26 Septe		easurement th	en the default (de	gradation coefficient	of chillers sha	ll be 0,9.				

Model(s): MLI016HMA				A	A					
Outdoor side heat e	exchanger of c	hiller:	Air to water							
Indoor side heat ex	changer chille	r:	Water							
Туре:	Туре:			dri	iven vapour compres	ssion				
Driver of compresso	or:		Electric moto	or						
			Unit		ltem	Symbol	Value	Unit		
Item	Symbol	Value				Symbol		Unit		
Rated cooling capacity	P _{rated,c}	15.4	kW		Seasonal space cooling energy efficiency	η _{s,c}	266.9	%		
Declared cooling c temperature Tj	apacity for pa	rt load at giver	1 outdoor		Declared energy ef outdoor temperatur		or part load at	given		
Tj =+35 ℃	P _{dc}	15.40	kW		Tj=+35℃	EER₫	3.50	-		
Tj=+30℃	P _{dc}	11.42	kW		Tj=+30℃	EER₫	5.14	-		
Tj=+25℃	P _{dc}	7.27	kW		Tj=+25℃	EER₫	7.83	-		
Tj=+20℃	P _{dc}	3.40	kW		Tj=+20℃	EERd	10.35	-		
Degradation co-efficient			 []							
for chillers (*)	C _{dc}	0.9	-							
		Power cons	sumption in mo	de	s other than "active i	mode"				
Off mode	P_{OFF}	0.014	kW		Crankcase heater mode	Р _{ск}	0.000	kW		
Thermosat-off mode	P _{TO}	0.010	kW		Standby mode	P _{SB}	0.014	kW		
			Othe	er i	tems					
Capacity control		variable			For air-to-water comfort chillers:					
Sound power level, indoors /outdoors	L _{WA}	-/69	dB		air flow rate, outdoor measured	-	4650	m³/h		
Emissions of nitroger oxides (if applicable)	NO _x (**)	-	mg/kWh input GCV		For water / brine-to-wate chillers: Rated brine or			m³/h		
GWP of the refrigerant	-	675	kg CO _{2 eq} (100years)		water flow rate, outdoor side heat exchanger	-				
Standard rating co	nditions used	Medium tem	perature applic	cat	ion					
Contact details					ing Equipment Co. , o, Shunde, Foshan, (28311 P.R. Ch	lina		
(*) If Cdc is not determined by measurement then the default degradation coefficient of chillers shall be 0,9. (**) From 26 September 2018.										

Model(s):			MLI016H0AA						
Outdoor side heat e	exchanger of c	hiller:	Air to water						
Indoor side heat ex	changer chille	r:	Water						
Туре:			Compressor of	driven vapour compres	ssion				
Driver of compresso	or:		Electric motor	r					
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit		
Rated cooling capacity	P _{rated,c}	14.3	kW	Seasonal space cooling energy efficiency	η _{s,c}	%			
Declared cooling c temperature Tj	apacity for par	rt load at given	outdoor	Declared energy ef outdoor temperatur		or part load at	given		
Tj=+35 ℃	P _{dc}	14.31	kW	Tj=+35℃	EER₫	2.47	-		
Tj =+30 ℃	P _{dc}	10.68	kW	Tj=+30℃	EER₫	3.63	-		
Tj =+25 ℃	P _{dc}	6.76	kW	Tj=+25℃	EER₫	5.27	-		
Tj=+20℃	P _{dc}	3.41	kW	Tj=+20℃	EERd	7.29	-		
Degradation co-efficient for chillers (*)	C_{dc}	0.9	-						
		Power cons	sumption in mod	des other than "active r	mode"				
Off mode	Poff	0.020	kW	Crankcase heater mode	Рск	0.000	kW		
Thermosat-off mode	P _{TO}	0.010	kW	Standby mode	P _{SB}	0.020	kW		
			Othe	ritems					
Capacity control		variable		For air-to-water comfort chillers:			m³/h		
Sound power level, indoors /outdoors	Lwa	-/69	dB	air flow rate, outdoor measured	-	4650			
Emissions of nitroger oxides (if applicable)	NO _x (**)	-	mg/kWh input GCV	For water / brine- to-water chillers:	_		m³/h		
GWP of the refrigerant	-	675	kg CO _{2 eq} (100years)	Rated brine or water flow rate, outdoor side heat exchanger	-				
Standard rating co	nditions used	Low tempera	ature applicatio	n					
Contact details				ating Equipment Co. , I iao, Shunde, Foshan, (28311 P.R. Ch	iina		
(*) If Cdc is not determined by measurement then the default degradation coefficient of chillers shall be 0,9.									

(**) From 26 September 2018.

Model(s):			MLI016H0AA							
Outdoor side heat e	exchanger of c	hiller:	Air to water Water							
Indoor side heat ex	changer chille	r:								
Туре:			Compressor	driven vapour compres	sion					
Driver of compress	or:		Electric motor	r						
ltem	Symbol	Value	Unit	Item	Symbol	Value	Unit			
Rated cooling capacity	P _{rated,c}	15.4	kW	Seasonal space cooling energy efficiency	η _{s,c}	265.3	%			
Declared cooling of temperature Tj	apacity for pa	rt load at giver	n outdoor	Declared energy eff outdoor temperatur		or part load at	given			
Tj=+35℃	P _{dc}	15.40	kW	Tj =+35 ℃	EER₫	3.50	-			
Tj=+30℃	P _{dc}	11.42	kW	Tj =+30 ℃	EER₫	5.14	-			
Tj=+25℃	P _{dc}	7.27	kW	Tj =+25 ℃	EER₫	7.83	-			
Tj=+20℃	P _{dc}	3.40	kW	Tj=+20℃	EERd	10.35	-			
Degradation co-efficient or chillers (*)	C _{dc}	0.9	-							
		Power cons	sumption in mod	des other than "active r	node"					
Off mode	P _{OFF}	0.020	kW	Crankcase heater mode	Рск	0.000	kW			
Thermosat-off mode	P _{TO}	0.010	kW	Standby mode	P_{SB}	0.020	kW			
			Othe	r items						
Capacity control		variable		For air-to-water comfort chillers:	_	4650	m³/h			
Sound power level, indoors /outdoors	Lwa	-/69	dB	air flow rate, outdoor measured			111 /11			
Emissions of nitroger oxides (if applicable)	NO _x (**)	-	mg/kWh input GCV	For water / brine- to-water chillers:	_		m³/h			
GWP of the refrigerant	-	675	kg CO _{2 eq} (100years)	Rated brine or water flow rate, outdoor side heat exchanger			,			
Standard rating co	nditions used	Medium terr	nperature applic	ation						
Contact details GD Midea Heating & Ventilating Equipment Co. , Ltd. Penglai industry Road, Beijiao, Shunde, Foshan, Guangdong, 528311 P.R. China										

Condition(°C)	Model	Capacity (kW)	Power input (kW)	EER/COP (/)
	MLI006HMAA	7.00	2.33	3.00
	MLI008HMAA	7.45	2.22	3.35
Ambient Temperature: 35/24	MLI010HMAA	8.20	2.52	3.25
Water temperature: 12/7	MLI012HMAA	11.5	4.18	2.75
	MLI016HMAA	14.0	5.60	2.50
	MLI016H0MM	14.0	5.60	2.50
	MLI006HMAA	6.50	1.35	4.80
	MLI008HMAA	8.30	1.64	5.05
Ambient Temperature: 35/24	MLI010HMAA	9.90	2.18	4.55
Water temperature: 23/18	MLI012HMAA	12.00	3.04	3.95
	MLI016HMAA	14.90	4.38	3.40
	MLI016H0MM	14.90	4.38	3.40
	MLI006HMAA	6.35	1.28	4.95
	MLI008HMAA	8.40	1.63	5.15
Ambient Temperature: 7/6	MLI010HMAA	10.0	2.02	4.95
Water temperature: 30/35	MLI012HMAA	12.1	2.44	4.95
	MLI016HMAA	15.9	3.53	4.50
	MLI016H0MM	15.9	3.53	4.50
	MLI006HMAA	5.50	1.41	3.90
	MLI008HMAA	7.10	1.73	4.10
Ambient Temperature: 2/1	MLI010HMAA	8.20	2.05	4.00
Water temperature: 30/35	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 (/)
	MLI006HMAA	6.00	2.00	3.00
	MLI008HMAA	7.00	2.19	3.20
Ambient Temperature: -7/-8	MLI010HMAA	8.00	2.62	3.05
Water temperature: 30/35	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
	MLI006HMAA	6.30	1.70	3.70
	MLI008HMAA	8.10	2.10	3.85
Ambient Temperature: 7/6	MLI010HMAA	10.0	2.67	3.75
Water temperature: 40/45	MLI012HMAA	12.3	3.32	3.70
	MLI016HMAA	16.0	4.57	3.50
	MLI016H0MM	16.0	4.57	3.50
	MLI006HMAA	5.80	1.93	3.00
	MLI008HMAA	7.40	2.28	3.25
Ambient Temperature: 2/1	MLI010HMAA	7.85	2.45	3.20
Water temperature: 40/45	MLI012HMAA	10.60	3.53	3.00
	MLI016HMAA	12.70	4.46	2.85
	MLI016H0MM	12.70	4.46	2.85
	MLI006HMAA	5.40	2.25	2.40
	MLI008HMAA	6.60	2.59	2.55
Ambient Temperature: -7/-8	MLI010HMAA	7.35	2.88	2.55
Water temperature: 40/45	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 (/)
	MLI006HMAA	6.00	2.03	2.95
Ambient Temperature: 7/6	MLI008HMAA	7.50	2.36	3.18
Water temperature: 47/55	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
	MLI006HMAA	5.65	2.31	2.45
	MLI008HMAA	7.10	2.73	2.60
Ambient Temperature 0/4	MLI010HMAA	8.10	3.16	2.56
Ambient Temperature: 2/1	MLI012HMAA	11.30	4.52	2.50
Water temperature: 47/55	MLI016HMAA	13.30	5.54	2.40
	MLI016H0MM	13.30	5.54	2.40
	MLI006HMAA	5.15	2.58	2.00
	MLI008HMAA	6.15	3.00	2.05
Ambient Temperature: -7/-8	MLI010HMAA	6.85	3.43	2.00
Water temperature: 47/55	MLI012HMAA	9.80	4.78	2.05
	MLI016HMAA	12.50	6.25	2.00
	MLI016H0MM	12.50	6.25	2.00

