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Summary of	M thermal A Series 4 6kW with 240L tank	Reg. No.	041-K007-05	
Certificate Holder				
Name	GD Midea Heating & Ventilating Equipment Co.,	GD Midea Heating & Ventilating Equipment Co., Ltd.		
Address	Penglai Industry Road	Zip	528311	
City	Beijiao, Shunde, Foshan	Country	China	
Certification Body	BRE Global Limited			
Subtype title	M thermal A Series 4 6kW with 240L tank			
Heat Pump Type	Outdoor Air/Water			
Refrigerant	R32			
Mass of Refrigerant	1.5 kg			
Certification Date	12.06.2020			
Testing basis	Heat Pump Keymark Scheme Rules Rev 08			



Model: MHA-V4W/D2N8-B+HBT-A100/240C****GN8-B

Configure model		
Model name	MHA-V4W/D2N8-B+HBT-A100/240C****GN8-B	
Application	Heating + DHW + low temp	
Units	Indoor + Outdoor	
Climate Zone	Colder Climate + Warmer Climate	
Reversibility	Yes	
Cooling mode application (optional)	n/a	

General Data		
Power supply	1x230V 50Hz	

Heating

EN 14511-2			
	Low temperature	Medium temperature	
Heat output	4.25 kW	4.40 kW	
El input	0.82 kW	1.49 kW	
СОР	5.20	2.95	

EN 14511-4	
Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed
Starting and operating test	passed

Warmer Climate



EN 12102-1			
	Low temperature	Medium temperature	
Sound power level indoor	42 dB(A)	42 dB(A)	
Sound power level outdoor	56 dB(A)	56 dB(A)	

EN 14825			
	Low temperature	Medium temperature	
η_{s}	254 %	162 %	
Prated	5.54 kW	5.02 kW	
SCOP	6.52	4.14	
Tbiv	7 °C	7 °C	
TOL	2 °C	2 °C	
Pdh Tj = +2°C	5.35 kW	4.84 kW	
COP Tj = +2°C	3.94	2.51	
Cdh Tj = +2 °C	0.90	0.90	
Pdh Tj = +7°C	3.56 kW	3.23 kW	
$COP Tj = +7^{\circ}C$	5.92	3.68	
Cdh Tj = +7 °C	0.90	0.90	
Pdh Tj = 12°C	1.64 kW	1.47 kW	
COP Tj = 12°C	7.91	5.15	
Cdh Tj = +12 °C	0.90	0.90	





Pdh Tj = Tbiv	3.56 kW	3.23 kW
COP Tj = Tbiv	5.92	3.68
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.35 kW	4.84 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.94	2.51
WTOL	65 °C	65 °C
Poff	14 W	14 W
РТО	24 W	24 W
PSB	14 W	14 W
PCK	o w	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.19 kW	0.18 kW
Annual energy consumption Qhe	1152 kWh	1621 kWh

Colder Climate

EN 12102-1				
	Low temperature	Medium temperature		
Sound power level indoor	42 dB(A)	42 dB(A)		
Sound power level outdoor	56 dB(A)	56 dB(A)		

EN 14825		
	Low temperature	Medium temperature





This information was generated by the HP KEYMARK database on 22 Jun 2023				
η_{S}	159 %	102 %		
Prated	4.57 kW	3.37 kW		
SCOP	4.06	2.63		
Tbiv	-15 °C	-15 °C		
TOL	-22 °C	-22 °C		
Pdh Tj = -7°C	2.76 kW	2.14 kW		
$COP Tj = -7^{\circ}C$	3.49	2.32		
Cdh Tj = -7 °C	0.90	0.90		
Pdh Tj = $+2$ °C	1.77 kW	1.28 kW		
COP Tj = +2°C	4.95	2.99		
Cdh Tj = +2 °C	0.90	0.90		
Pdh Tj = $+7^{\circ}$ C	1.17 kW	1.01 kW		
$COPTj = +7^{\circ}C$	5.53	3.86		
Cdh Tj = +7 °C	0.90	0.90		
Pdh Tj = 12°C	1.43 kW	1.36 kW		
COP Tj = 12°C	7.67	6.28		
Cdh Tj = +12 °C	0.90	0.90		
Pdh Tj = Tbiv	3.72 kW	2.75 kW		
COP Tj = Tbiv	2.57	1.74		
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	2.80 kW	1.64 kW		
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	1.97	1.02		
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WTOL	65 °C	65 °C
Poff	14 W	14 W
РТО	24 W	24 W
PSB	14 W	14 W
PCK	o w	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.76 kW	1.73 kW
Annual energy consumption Qhe	2770 kWh	3159 kWh
Pdh Tj = -15°C (if TOL<-20°C)	3.72	2.75
COP Tj = -15°C (if TOL $<$ -20°C)	2.57	1.74
Cdh Tj = -15 °C	0.90	0.90

EN 12102-1			
Low temperature Medium temperature			
Sound power level indoor	42 dB(A)	42 dB(A)	
Sound power level outdoor	56 dB(A)	56 dB(A)	

EN 14825		
	Low temperature	Medium temperature
η_{S}	191 %	130 %





This information was generated by the HF KETMAKK database on 22 Juli 2022			
Prated	5.52 kW	4.40 kW	
SCOP	4.85	3.31	
Tbiv	-7 °C	-7 °C	
TOL	-10 °C	-10 °C	
Pdh Tj = -7° C	4.88 kW	3.89 kW	
$COPTj = -7^{\circ}C$	3.19	2.17	
Cdh Tj = -7 °C	0.90	0.90	
Pdh Tj = $+2$ °C	3.06 kW	2.38 kW	
COP Tj = +2°C	4.78	3.30	
Cdh Tj = +2 °C	0.90	0.90	
Pdh Tj = $+7^{\circ}$ C	1.93 kW	2.95 kW	
$COPTj = +7^{\circ}C$	6.13	4.41	
Cdh Tj = +7 °C	0.90	0.90	
Pdh Tj = 12°C	1.48 kW	1.32 kW	
COP Tj = 12°C	8.05	5.66	
Cdh Tj = +12 °C	0.90	0.90	
Pdh Tj = Tbiv	4.88 kW	3.89 kW	
COP Tj = Tbiv	3.19	2.17	
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	4.42 kW	3.42 kW	
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.86	1.91	
WTOL	65 °C	65 °C	
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Poff	14 W	14 W
РТО	24 W	24 W
PSB	14 W	14 W
PCK	o w	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.11 kW	0.98 kW
Annual energy consumption Qhe	2351 kWh	2744 kWh

Domestic Hot Water (DHW)

Warmer Climate

EN 16147		
Declared load profile	XL	
Efficiency ηDHW	174 %	
СОР	4.24	
Heating up time	2:09 h:min	
Standby power input	22.0 W	
Reference hot water temperature	48.0 °C	
Mixed water at 40°C	275 l	

Colder Climate



EN 16147		
Declared load profile	XL	
Efficiency ηDHW	107 %	
СОР	2.63	
Heating up time	2:38 h:min	
Standby power input	24.0 W	
Reference hot water temperature	48.0 °C	
Mixed water at 40°C	275 I	

EN 16147		
Declared load profile	XL	
Efficiency ηDHW	136 %	
СОР	3.34	
Heating up time	2:21 h:min	
Standby power input	22.0 W	
Reference hot water temperature	48.0 °C	
Mixed water at 40°C	275 I	



Model: MHA-V6W/D2N8-B+HBT-A100/240C****GN8-B

Configure model		
Model name MHA-V6W/D2N8-B+HBT-A100/240C****GN8-B		
Application Heating + DHW + low temp		
Units Indoor + Outdoor		
Climate Zone Colder Climate + Warmer Climate		
Reversibility Yes		
Cooling mode application (optional)	n/a	

General Data		
Power supply 1x230V 50Hz		

Heating

EN 14511-2			
Low temperature Medium temperature			
Heat output	6.20 kW	6.00 kW	
El input	1.24 kW	2.00 kW	
СОР	5.00	3.00	

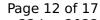
EN 14511-4		
Shutting off the heat transfer medium flow	passed	
Complete power supply failure	passed	
Defrost test	passed	
Starting and operating test	passed	

Warmer Climate



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	42 dB(A)	42 dB(A)
Sound power level outdoor	58 dB(A)	58 dB(A)

EN 14825		
	Low temperature	Medium temperature
η_{s}	258 %	165 %
Prated	6.12 kW	5.15 kW
SCOP	6.63	4.19
Tbiv	7 °C	7 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	5.94 kW	5.03 kW
COP Tj = +2°C	3.91	2.48
Cdh Tj = +2 °C	0.90	0.90
Pdh Tj = $+7^{\circ}$ C	3.93 kW	3.31 kW
$COP Tj = +7^{\circ}C$	5.89	3.67
Cdh Tj = +7 °C	0.90	0.90
Pdh Tj = 12°C	1.80 kW	1.60 kW
COP Tj = 12°C	8.20	5.29
Cdh Tj = +12 °C	0.90	0.90





3.93 kW	3.31 kW
5.89	3.67
5.94 kW	5.03 kW
3.91	2.48
65 °C	65 °C
14 W	14 W
24 W	24 W
14 W	14 W
o w	0 W
Electricity	Electricity
0.18 kW	0.12 kW
1251 kWh	1640 kWh
	5.89 5.94 kW 3.91 65 °C 14 W 24 W 14 W 0 W Electricity 0.18 kW

Colder Climate

Sound power level outdoor

Low temperature Medium temperature Sound power level indoor 42 dB(A) 42 dB(A)

58 dB(A)

58 dB(A)

EN 14825		
	Low temperature	Medium temperature





This information was gener	accuby the Hi KETMA	TRE database on 22 Juli 2022
η_{s}	165 %	111 %
Prated	5.63 kW	4.26 kW
SCOP	4.21	2.85
Tbiv	-15 °C	-15 °C
TOL	-22 °C	-22 °C
Pdh Tj = -7°C	3.42 kW	2.70 kW
COP Tj = -7° C	3.59	2.46
Cdh Tj = -7 °C	0.90	0.90
Pdh Tj = $+2$ °C	2.06 kW	1.61 kW
$COPTj = +2^{\circ}C$	5.21	3.36
Cdh Tj = +2 °C	0.90	0.90
Pdh Tj = $+7^{\circ}$ C	1.47 kW	1.02 kW
$COPTj = +7^{\circ}C$	6.24	3.94
Cdh Tj = +7 °C	0.90	0.90
Pdh Tj = 12°C	1.44 kW	1.37 kW
COP Tj = 12°C	7.66	6.35
Cdh Tj = +12 °C	0.90	0.90
Pdh Tj = Tbiv	4.60 kW	3.48 kW
COP Tj = Tbiv	2.53	1.86
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.48 kW	2.10 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	1.96	1.13
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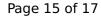




WTOL	65 °C	65 °C
Poff	20 W	20 W
РТО	24 W	24 W
PSB	14 W	14 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	2.15 kW	2.16 kW
Annual energy consumption Qhe	3301 kWh	3681 kWh
Pdh Tj = -15 °C (if TOL< -20 °C)	4.60	3.48
COP Tj = -15 °C (if TOL< -20 °C)	2.53	1.86
Cdh Tj = -15 °C	0.90	0.90

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	42 dB(A)	42 dB(A)
Sound power level outdoor	58 dB(A)	58 dB(A)

EN 14825		
	Low temperature	Medium temperature
η_{S}	195 %	138 %
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Prated	6.82 kW	5.70 kW
SCOP	4.95	3.52
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	6.03 kW	5.05 kW
COP Tj = -7°C	3.09	2.17
Cdh Tj = -7 °C	0.90	0.90
Pdh Tj = +2°C	3.88 kW	3.12 kW
COP Tj = +2°C	4.85	3.51
Cdh Tj = +2 °C	0.90	0.90
Pdh Tj = +7°C	2.40 kW	2.09 kW
$COP Tj = +7^{\circ}C$	6.63	4.54
Cdh Tj = +7 °C	0.90	0.90
Pdh Tj = 12°C	1.39 kW	1.28 kW
COP Tj = 12°C	7.83	5.59
Cdh Tj = +12 °C	0.90	0.90
Pdh Tj = Tbiv	6.03 kW	5.05 kW
COP Tj = Tbiv	3.09	2.17
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.36 kW	4.52 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.76	1.91
WTOL	65 °C	65 °C





Poff	14 W	14 W
РТО	24 W	24 W
PSB	14 W	14 W
PCK	o w	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.45 kW	1.18 kW

2846 kWh

3345 kWh

Domestic Hot Water (DHW)

Annual energy consumption Qhe

Warmer Climate

EN 16147	
Declared load profile	XL
Efficiency ηDHW	174 %
СОР	4.24
Heating up time	2:09 h:min
Standby power input	22.0 W
Reference hot water temperature	48.0 °C
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Colder Climate



EN 16147	
Declared load profile	XL
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