

Summary of	R32 M-thermal Split 4 6 kW with tank	Reg. No.	ICIM-PDC-000049-01	
Certificate Holder				
Name	GD Midea Heating & Ventilating Equipment Co., Ltd.			
Address	Penglai Industry Road	Zip	528311	
City	Beijiao, Shunde, Foshan	Country	China	
Certification Body	ICIM S.p.A.			
Name of testing laboratory	ReLab Politecnico di Milano			
Subtype title	R32 M-thermal Split 4 6 kW with tank			
Heat Pump Type	Outdoor Air/Water			
Refrigerant	R32			
Mass Of Refrigerant	1.55 kg			
Certification Date	11.12.2019			
Testing basis	EN 14511:2013, EN 14825:2016, EN 16147:17; EN 12102:2013			



Model: MHA-V4W/D2N8+SMKT-100L/190C*GN8

General Data		
Power supply	1x230V 50Hz	

Heating

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

EN 14511-2			
	Low temperature	Medium temperature	
Heat output	4.49 kW	4.10 kW	
El input	0.92 kW	1.48 kW	
СОР	4.87	2.77	
Indoor water flow rate	0.78 m³/h	0.45 m³/h	



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	39 dB(A)	39 dB(A)
Sound power level outdoor	61 dB(A)	61 dB(A)

EN 14825			
	Low temperature	Medium temperature	
η_{s}	186 %	132 %	
Prated	4.52 kW	5.41 kW	
SCOP	4.73	3.37	
Tbiv	-7 °C	-5 °C	
TOL	-10 °C	-10 °C	
Pdh Tj = -7°C	4.00 kW	4.26 kW	
COP Tj = -7°C	3.26	2.10	
Cdh	0.90	0.90	
Pdh Tj = +2°C	2.37 kW	3.09 kW	
COP Tj = +2°C	4.70	3.28	
Cdh	0.90	0.90	
Pdh Tj = +7°C	1.63 kW	1.98 kW	
COP Tj = +7°C	5.78	4.49	
Cdh	0.90	0.90	





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Pdh Tj = 12°C	1.38 kW	1.27 kW
COP Tj = 12°C	7.31	5.53
Cdh	0.90	0.90
Pdh Tj = Tbiv	4.00 kW	4.37 kW
COP Tj = Tbiv	3.26	2.38
Pdh Tj = TOL	3.81 kW	4.68 kW
COP Tj = TOL	2.80	1.93
WTOL	60 °C	60 °C
Poff	15 W	15 W
РТО	15 W	15 W
PSB	15 W	15 W
PCK	o w	0 W
Supplementary Heater: Type of energy input	electric	electric
Supplementary Heater: PSUP	0.71 kW	0.73 kW
Annual energy consumption Qhe	1978 kWh	3320 kWh

Warmer Climate

EN 12102-1		
	Low temperature	
Sound power level indoor	39 dB(A)	
Sound power level outdoor	61 dB(A)	

Colder Climate



EN 12102-1		
	Low temperature	
Sound power level indoor	39 dB(A)	
Sound power level outdoor	61 dB(A)	

Domestic Hot Water (DHW)

Average Climate

EN 16147		
Declared load profile	L	
Efficiency ηDHW	115 %	
СОР	2.71	
Heating up time	2:47 h:min	
Standby power input	47.0 W	
Reference hot water temperature	48.6 °C	
Mixed water at 40°C	200 I	

Warmer Climate



Model: MHA-V6W/D2N8+SMKT-100L/190C*GN8

General Data		
Power supply	1x230V 50Hz	

Heating

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

EN 14511-2		
	Low temperature	Medium temperature
Heat output	6.32 kW	5.47 kW
El input	1.36 kW	1.87 kW
СОР	4.66	2.92
Indoor water flow rate	1.10 m³/h	0.60 m³/h



 $$\operatorname{\textit{Page}}\ 7$$ of 17 This information was generated by the HP KEYMARK database on 17 Dec 2020

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	39 dB(A)	39 dB(A)
Sound power level outdoor	62 dB(A)	62 dB(A)

EN 14825		
	Low temperature	Medium temperature
η_{s}	193 %	132 %
Prated	5.91 kW	5.84 kW
SCOP	4.89	3.37
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	5.23 kW	5.17 kW
COP Tj = -7°C	3.09	2.09
Cdh	0.90	0.90
Pdh Tj = +2°C	3.20 kW	3.09 kW
COP Tj = +2°C	4.58	3.28
Cdh	0.90	0.90
Pdh Tj = +7°C	2.21 kW	1.98 kW
COP Tj = +7°C	7.18	4.49
Cdh	0.90	0.90





The information was generated by the first threat database on 17 Dec 2016			
1.38 kW	1.27 kW		
7.31	5.53		
0.90	0.90		
5.23 kW	5.17 kW		
3.09	2.09		
5.24 kW	4.79 kW		
2.67	1.85		
60 °C	60 °C		
15 W	15 W		
15 W	15 W		
15 W	15 W		
o w	o w		
electric	electric		
0.67 kW	1.05 kW		
2501 kWh	3586 kWh		
	1.38 kW 7.31 0.90 5.23 kW 3.09 5.24 kW 2.67 60 °C 15 W 15 W 0 W electric 0.67 kW		

Warmer Climate

EN 12102-1	
	Low temperature
Sound power level indoor	39 dB(A)
Sound power level outdoor	62 dB(A)

Colder Climate



EN 12102-1	
	Low temperature
Sound power level indoor	39 dB(A)
Sound power level outdoor	62 dB(A)

Domestic Hot Water (DHW)

Average Climate

EN 16147	
Declared load profile	L
Efficiency ηDHW	115 %
СОР	2.71
Heating up time	2:47 h:min
Standby power input	47.0 W
Reference hot water temperature	48.6 °C
Mixed water at 40°C	200

Warmer Climate



Model: MHA-V4W/D2N8+SMKT-100L/250C*GN8

General Data	
Power supply	1x230V 50Hz

Heating

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

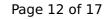
EN 14511-2		
	Low temperature	Medium temperature
Heat output	4.49 kW	4.10 kW
El input	0.92 kW	1.48 kW
СОР	4.87	2.77
Indoor water flow rate	0.78 m³/h	0.45 m³/h



 $$\operatorname{\textit{Page}}\ 11$ of 17$$ This information was generated by the HP KEYMARK database on 17 Dec 2020

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	39 dB(A)	39 dB(A)
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	Low temperature	Medium temperature
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COP Tj = +2°C	4.70	3.28
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Pdh Tj = +7°C	1.63 kW	1.98 kW
COP Tj = +7°C	5.78	4.49
Cdh	0.90	0.90





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Supplementary Heater: PSUP	0.71 kW	0.73 kW	
Annual energy consumption Qhe	1978 kWh	3320 kWh	

Warmer Climate

EN 12102-1		
	Low temperature	
Sound power level indoor	39 dB(A)	
Sound power level outdoor	61 dB(A)	

Colder Climate

CEN heat pump KEYMARK

EN 12102-1		
	Low temperature	
Sound power level indoor	39 dB(A)	
Sound power level outdoor	61 dB(A)	

Domestic Hot Water (DHW)

Average Climate

EN 16147		
Declared load profile	XL	
Efficiency ηDHW	93 %	
СОР	2.22	
Heating up time	3:52 h:min	
Standby power input	71.0 W	
Reference hot water temperature	54.2 °C	
Mixed water at 40°C	328 I	

Warmer Climate



Model: MHA-V6W/D2N8+SMKT-100L/250C*GN8

General Data		
Power supply	1x230V 50Hz	

Heating

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

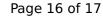
EN 14511-2			
	Low temperature	Medium temperature	
Heat output	6.32 kW	5.47 kW	
El input	1.36 kW	1.87 kW	
СОР	4.66	2.92	
Indoor water flow rate	1.10 m³/h	0.60 m³/h	



 $$\operatorname{\textit{Page}}\ 15$$ of 17 This information was generated by the HP KEYMARK database on 17 Dec 2020

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Pdh Tj = -7°C	5.23 kW	5.17 kW
COP Tj = -7°C	3.09	2.09
Cdh	0.90	0.90
Pdh Tj = +2°C	3.20 kW	3.09 kW
COP Tj = +2°C	4.58	3.28
Cdh	0.90	0.90
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COP Tj = +7°C	7.18	4.49
Cdh	0.90	0.90





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60 °C	60 °C
15 W	15 W
15 W	15 W
15 W	15 W
o w	o w
electric	electric
0.67 kW	1.05 kW
2501 kWh	3586 kWh
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Warmer Climate

EN 12102-1		
	Low temperature	
Sound power level indoor	39 dB(A)	
Sound power level outdoor	62 dB(A)	

Colder Climate



EN 12102-1		
	Low temperature	
Sound power level indoor	39 dB(A)	
Sound power level outdoor	62 dB(A)	

Domestic Hot Water (DHW)

Average Climate

EN 16147	
Declared load profile	XL
Efficiency ηDHW	93 %
СОР	2.22
Heating up time	3:52 h:min
Standby power input	71.0 W
Reference hot water temperature	54.2 °C
Mixed water at 40°C	328 I

Warmer Climate