

Page 1 of 22

This information was generated by the HP KEYMARK database on 18 Mar 2022

Login

Summary of	M thermal P series 5 7 9 kW	Reg. No.	041-K007-14	
Certificate Holder				
Name	GD Midea Heating & Ventilating Equ	GD Midea Heating & Ventilating Equipment Co., Ltd.		
Address	Penglai Industry Road	Zip	528311	
City	Beijiao, Shunde, Foshan	Country	China	
Certification Body	BRE Global Limited	BRE Global Limited		
Subtype title	M thermal P series 5 7 9 kW	M thermal P series 5 7 9 kW		
Heat Pump Type	Outdoor Air/Water			
Refrigerant	R32			
Mass of Refrigerant	1.25 kg			
Certification Date	14.12.2021			
Testing basis	Heat Pump Keymark Scheme Rules Rev 09			



Model: MHC-V5W/D2N8-C

Configure model			
Model name	MHC-V5W/D2N8-C		
Application	Heating (medium temp)		
Units	Outdoor		
Climate Zone	Colder Climate + Warmer Climate		
Reversibility	Yes		
Cooling mode application (optional)	n/a		

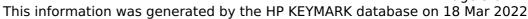
General Data		
Power supply	1x230V 50Hz	

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	6.5 kW	6.3 kW	
El input	1.23 kW	1.97 kW	
СОР	5.3	3.2	

Average Climate





EN 12102-1			
	Low temperature	Medium temperature	
Sound power level outdoor	60 dB(A)	60 dB(A)	

EN 14825			
	Low temperature	Medium temperature	
η_{s}	201.8 %	140.72 %	
Prated	6.52 kW	6.36 kW	
SCOP	5.12	3.59	
Tbiv	-7 °C	-7 °C	
TOL	-10 °C	-10 °C	
Pdh Tj = -7°C	5.77 kW	5.62 kW	
COP Tj = -7°C	3.43	2.36	
Cdh Tj = -7 °C	0.9	0.9	
Pdh Tj = +2°C	3.74 kW	3.52 kW	
COP Tj = +2°C	5.04	3.7	
Cdh Tj = +2 °C	0.9	0.9	
Pdh Tj = +7°C	2.32 kW	2.2 kW	
COP Tj = +7°C	6.06	4.21	
Cdh Tj = +7 °C	0.9	0.9	
Pdh Tj = 12°C	1.87 kW	1.31 kW	



COP Tj = 12°C	0.10	
COP 1) = 12 C	9.12	4.96
Cdh Tj = +12 °C	0.9	0.9
Pdh Tj = Tbiv	5.77 kW	5.62 kW
COP Tj = Tbiv	3.43	2.36
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.52 kW	6.04 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3	2.02
WTOL	65 °C	65 °C
Poff	13 W	13 W
РТО	20 W	20 W
PSB	13 W	13 W
PCK	o w	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0 kW	0.32 kW
Annual energy consumption Qhe	2631 kWh	3655 kWh

Warmer Climate

EN 12102-1			
	Low temperature	Medium temperature	
Sound power level outdoor	60 dB(A)	60 dB(A)	

EN 14825			
	Low temperature	Medium temperature	





η_{s}	268.2 %	170.9 %
Prated	6.24 kW	6.17 kW
SCOP	6.78	4.35
Tbiv	7 °C	7 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	5.69 kW	6.17 kW
$COPTj = +2^{\circ}C$	4.31	2.77
Cdh Tj = +2 °C	0.9	0.9
Pdh Tj = +7°C	4.01 kW	3.97 kW
COP Tj = +7°C	6.39	3.9
Cdh Tj = +7 °C	0.9	0.9
Pdh Tj = 12°C	2.07 kW	2.06 kW
COP Tj = 12°C	8.71	5.28
Cdh Tj = +12 °C	0.9	0.9
Pdh Tj = Tbiv	4.01 kW	3.97 kW
COP Tj = Tbiv	6.39	3.9
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL $<$ Tdesignh	5.69 kW	6.17 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.31	2.77
WTOL	65 °C	65 °C
Poff	13 W	13 W





РТО	20 W	20 W
PSB	13 W	13 W
PCK	o w	o w
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.55 kW	0 kW
Annual energy consumption Qhe	1229 kWh	1895 kWh

Colder Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level outdoor	60 dB(A)	60 dB(A)

EN 14825		
	Low temperature	Medium temperature
η_{s}	173.4 %	113.12 %
Prated	6.13 kW	5.22 kW
SCOP	4.41	2.9
Tbiv	-15 °C	-15 °C
TOL	-22 °C	-22 °C
Pdh Tj = -7°C	4.11 kW	3.21 kW
COP Tj = -7°C	3.76	2.6





Cdh Tj = -7 °C	0.9	0.9
Pdh Tj = +2°C	2.38 kW	2.03 kW
COP Tj = +2°C	5.33	3.18
Cdh Tj = +2 °C	0.9	0.9
Pdh Tj = $+7^{\circ}$ C	1.66 kW	1.56 kW
$COP Tj = +7^{\circ}C$	5.78	4.5
Cdh Tj = +7 °C	0.9	0.9
Pdh Tj = 12°C	1.87 kW	1.44 kW
COP Tj = 12°C	9.12	5.83
Cdh Tj = +12 °C	0.9	0.9
Pdh Tj = Tbiv	5 kW	4.25 kW
COP Tj = Tbiv	3.02	2
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	4.21 kW	3.24 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.12	1.32
WTOL	65 °C	65 °C
Poff	13 W	13 W
РТО	20 W	20 W
PSB	13 W	13 W
РСК	0 W	o w
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.92 kW	1.98 kW



Page 8 of 22

Annual energy consumption Qhe	3425 kWh	4428 kWh
Pdh Tj = -15°C (if TOL<-20°C)	5	4.25
COP Tj = -15°C (if TOL $<$ -20°C)	3.02	2
Cdh Tj = -15 °C	0.9	0.9



Model: MHC-V7W/D2N8-C

Configure model		
Model name	MHC-V7W/D2N8-C	
Application	Heating (medium temp)	
Units	Outdoor	
Climate Zone	Colder Climate + Warmer Climate	
Reversibility	Yes	
Cooling mode application (optional)	n/a	

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	8.40 kW	8.20 kW	
El input	1.66 kW	2.60 kW	
СОР	5.05	3.15	

Average Climate



EN 12102-1			
Low temperature Medium temperature			
Sound power level outdoor	63 dB(A)	63 dB(A)	

	EN 14825	
	Low temperature	Medium temperature
η_{s}	203.99 %	143.64 %
Prated	7.90 kW	7.25 kW
SCOP	5.17	3.67
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	6.99 kW	6.42 kW
COP Tj = -7°C	3.29	2.31
Cdh Tj = -7 °C	0.90	0.90
Pdh Tj = +2°C	4.51 kW	4.03 kW
COP Tj = +2°C	4.99	3.76
Cdh Tj = +2 °C	0.90	0.90
Pdh Tj = +7°C	2.81 kW	2.56 kW
$COP Tj = +7^{\circ}C$	6.72	4.48
Cdh Tj = +7 °C	0.90	0.90
Pdh Tj = 12°C	1.87 kW	1.31 kW



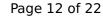


	<u> </u>	
COP Tj = 12°C	9.12	4.96
Cdh Tj = +12 °C	0.90	0.90
Pdh Tj = Tbiv	6.99 kW	6.42 kW
COP Tj = Tbiv	3.29	2.31
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	7.46 kW	6.85 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.87	1.98
WTOL	65.00 °C	65.00 °C
Poff	13.00 W	13.00 W
РТО	20.00 W	20.00 W
PSB	13.00 W	13.00 W
PCK	0.00 W	0.00 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.44 kW	0.40 kW
Annual energy consumption Qhe	3155 kWh	4088 kWh

Warmer Climate

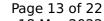
EN 12102-1		
	Low temperature	Medium temperature
Sound power level outdoor	63 dB(A)	63 dB(A)

EN 14825		
	Low temperature	Medium temperature





This information was gener	· · · · · · · · · · · · · · · · · · ·	
η_s	274.74 %	185.3 %
Prated	8.06 kW	8.10 kW
SCOP	6.94	4.71
Tbiv	7 °C	7 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	7.23 kW	7.80 kW
$COP Tj = +2^{\circ}C$	4.04	2.68
Cdh Tj = +2 °C	0.90	0.90
Pdh Tj = +7°C	5.18 kW	5.22 kW
$COP Tj = +7^{\circ}C$	6.35	4.07
Cdh Tj = +7 °C	0.90	0.90
Pdh Tj = 12°C	2.46 kW	2.36 kW
COP Tj = 12°C	9.30	6.07
Cdh Tj = +12 °C	0.90	0.90
Pdh Tj = Tbiv	5.18 kW	5.22 kW
COP Tj = Tbiv	6.35	4.07
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	7.23 kW	7.80 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.04	2.68
WTOL	65.00 °C	65.00 °C
Poff	13.00 W	13.00 W





РТО	20.00 W	20.00 W
PSB	13.00 W	13.00 W
PCK	0.00 W	0.00 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.84 kW	0.32 kW
Annual energy consumption Qhe	1551 kWh	2303 kWh

Colder Climate

EN 12102-1			
	Low temperature	Medium temperature	
Sound power level outdoor	63 dB(A)	63 dB(A)	

EN 14825		
	Low temperature	Medium temperature
η_{s}	174.6 %	117.73 %
Prated	7.51 kW	6.06 kW
SCOP	4.44	3.02
Tbiv	-15.00 °C	-15.00 °C
TOL	-22.00 °C	-22.00 °C
Pdh Tj = -7°C	4.42 kW	3.95 kW
COP Tj = -7°C	3.67	2.75
		'





This information was genera	Tea by the III REITH	TR database on 10 har 202
Cdh Tj = -7 °C	0.90	0.90
Pdh Tj = +2°C	2.99 kW	2.25 kW
$COP Tj = +2^{\circ}C$	5.50	3.30
Cdh Tj = +2 °C	0.90	0.90
Pdh Tj = $+7^{\circ}$ C	2.03 kW	1.56 kW
$COPTj = +7^{\circ}C$	6.69	4.50
Cdh Tj = +7 °C	0.90	0.90
Pdh Tj = 12°C	1.87 kW	1.44 kW
COP Tj = 12°C	9.12	5.83
Cdh Tj = +12 °C	0.90	0.90
Pdh Tj = Tbiv	6.12 kW	4.94 kW
COP Tj = Tbiv	2.70	2.08
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	4.78 kW	3.24 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.16	1.32
WTOL	65.00 °C	65.00 °C
Poff	13.00 W	13.00 W
РТО	20.00 W	20.00 W
PSB	13.00 W	13.00 W
PCK	0.00 W	0.00 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	2.72 kW	2.82 kW
	•	•



Page 15 of 22

Annual energy consumption Qhe	4166 kWh	4948 kWh
Pdh Tj = -15°C (if TOL<-20°C)	6.12	4.94
COP Tj = -15°C (if TOL $<$ -20°C)	2.70	2.08
Cdh Tj = -15 °C	0.90	0.90



Model: MHC-V9WD2N8-C

Configure model		
Model name MHC-V9WD2N8-C		
Application	Heating (medium temp)	
Units Outdoor		
Climate Zone Colder Climate + Warmer Climate		
Reversibility Yes		
Cooling mode application (optional)	n/a	

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	

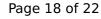
EN 14511-2		
Low temperature Medium temperature		
Heat output	10 kW	9.4 kW
El input	2.13 kW	3.03 kW
СОР	4.7	3.1

Average Climate



EN 12102-1		
Low temperature Medium temperature		
Sound power level outdoor	65 dB(A)	65 dB(A)

EN 14825		
	Low temperature	Medium temperature
η _s	201.91 %	145.47 %
Prated	9.06 kW	8.16 kW
SCOP	5.12	3.71
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	8.02 kW	7.21 kW
COP Tj = -7°C	3.09	2.24
Cdh Tj = -7 °C	0.9	0.9
Pdh Tj = +2°C	5.06 kW	4.56 kW
COP Tj = +2°C	4.92	3.86
Cdh Tj = +2 °C	0.9	0.9
Pdh Tj = +7°C	3.22 kW	2.84 kW
COP Tj = +7°C	7.03	4.58
Cdh Tj = +7 °C	0.9	0.9
Pdh Tj = 12°C	1.87 kW	1.31 kW





COP Tj = 12°C 9.12 4.96 Cdh Tj = +12 °C 0.9 0.9 Pdh Tj = Tbiv 8.02 kW 7.21 kW COP Tj = Tbiv 3.09 2.24 Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh 7.88 kW 7.01 kW COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh 2.87 1.97 WTOL 65 °C 65 °C Poff 13 W 13 W PTO 20 W 20 W PSB 13 W 13 W PCK 0 W 0 W Supplementary Heater: Type of energy input Electricity Electricity Supplementary Heater: PSUP 1.18 kW 1.14 kW Annual energy consumption Qhe 3654 kWh 4539 kWh			
Pdh Tj = Tbiv 8.02 kW 7.21 kW COP Tj = Tbiv 3.09 2.24 Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	COP Tj = 12°C	9.12	4.96
COP Tj = Tbiv 3.09 2.24 Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	Cdh Tj = +12 °C	0.9	0.9
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	Pdh Tj = Tbiv	8.02 kW	7.21 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	COP Tj = Tbiv	3.09	2.24
WTOL 65 °C 65 °C 13 W 13 W PTO 20 W 20 W PSB 13 W 13 W PCK 0 W 0 W Supplementary Heater: Type of energy input Electricity Electricity Supplementary Heater: PSUP 1.18 kW 1.14 kW	Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	7.88 kW	7.01 kW
Poff 13 W 13 W PTO 20 W 20 W PSB 13 W 13 W PCK 0 W 0 W Supplementary Heater: Type of energy input Electricity Electricity Supplementary Heater: PSUP 1.18 kW 1.14 kW	COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.87	1.97
PTO 20 W 20 W PSB 13 W 13 W PCK 0 W Supplementary Heater: Type of energy input Electricity Electricity Supplementary Heater: PSUP 1.18 kW 1.14 kW	WTOL	65 °C	65 °C
PSB 13 W 13 W PCK 0 W 0 W Supplementary Heater: Type of energy input Electricity Electricity Supplementary Heater: PSUP 1.18 kW 1.14 kW	Poff	13 W	13 W
PCK 0 W 0 W Supplementary Heater: Type of energy input Electricity Electricity Supplementary Heater: PSUP 1.18 kW 1.14 kW	РТО	20 W	20 W
Supplementary Heater: Type of energy input Electricity Electricity Supplementary Heater: PSUP 1.18 kW 1.14 kW	PSB	13 W	13 W
Supplementary Heater: PSUP 1.18 kW 1.14 kW	PCK	o w	0 W
	Supplementary Heater: Type of energy input	Electricity	Electricity
Annual energy consumption Qhe 3654 kWh 4539 kWh	Supplementary Heater: PSUP	1.18 kW	1.14 kW
	Annual energy consumption Qhe	3654 kWh	4539 kWh

Warmer Climate

EN 12102-1			
	Low temperature	Medium temperature	
Sound power level outdoor	65 dB(A)	65 dB(A)	

EN 14825		
	Low temperature	Medium temperature





		100.404
n_s	279.05 %	193.4 %
Prated	9.04 kW	9.03 kW
SCOP	7.05	4.91
Tbiv	7 °C	7 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	8.29 kW	8.42 kW
COP Tj = +2°C	3.85	2.68
Cdh Tj = +2 °C	0.9	0.9
Pdh Tj = +7°C	5.81 kW	5.81 kW
$COP Tj = +7^{\circ}C$	6.24	4.16
Cdh Tj = +7 °C	0.9	0.9
Pdh Tj = 12°C	2.67 kW	2.74 kW
COP Tj = 12°C	9.63	6.64
Cdh Tj = +12 °C	0.9	0.9
Pdh Tj = Tbiv	5.81 kW	5.81 kW
COP Tj = Tbiv	6.24	4.16
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.29 kW	8.42 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.85	2.68
WTOL	65 °C	65 °C
Poff	13 W	13 W



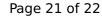


PTO	20 W	20 W
PSB	13 W	13 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.75 kW	0.61 kW
Annual energy consumption Qhe	1714 kWh	2458 kWh

Colder Climate

EN 12102-1			
	Low temperature	Medium temperature	
Sound power level outdoor	65 dB(A)	65 dB(A)	

EN 14825		
	Low temperature	e Medium temperature
η_{s}	174.6 %	122.4 %
Prated	8.27 kW	7.21 kW
SCOP	4.44	3.14
Tbiv	-15 °C	-15 °C
TOL	-22 °C	-22 °C
Pdh Tj = -7°C	5.42 kW	4.59 kW
COP Tj = -7°C	3.72	2.72





This information was genera	iced by the in item in	database on io iai zoi
Cdh Tj = -7 °C	0.9	0.9
Pdh Tj = +2°C	3.14 kW	2.82 kW
COP Tj = +2°C	5.56	3.6
Cdh Tj = +2 °C	0.9	0.9
Pdh Tj = +7°C	2.16 kW	1.76 kW
$COP Tj = +7^{\circ}C$	6.55	4.84
Cdh Tj = +7 °C	0.9	0.9
Pdh Tj = 12°C	1.87 kW	1.44 kW
COP Tj = 12°C	9.12	5.83
Cdh Tj = +12 °C	0.9	0.9
Pdh Tj = Tbiv	6.75 kW	5.88 kW
COP Tj = Tbiv	2.59	2.1
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.08 kW	3.24 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.01	1.32
WTOL	65 °C	65 °C
Poff	13 W	13 W
РТО	20 W	20 W
PSB	13 W	13 W
РСК	0 W	o w
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	3.19 kW	3.97 kW
	•	•



$$\operatorname{\textit{Page}}\xspace$ 22 of 22 This information was generated by the HP KEYMARK database on 18 Mar 2022

Annual energy consumption Qhe	4591 kWh	5665 kWh
Pdh Tj = -15°C (if TOL<-20°C)	6.75	5.88
COP Tj = -15°C (if TOL $<$ -20°C)	2.59	2.1
Cdh Tj = -15 °C	0.9	0.9