Summary of	R32 M-thermal Split 8 10 kW with tank	Reg. No.	ICIM-PDC-000050-01
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 8 10 kW with tank		
Heat Pump Type	Outdoor Air/Water		
Refrigerant	R32		
Mass Of Refrigerant	1.65 kg		
Certification Date	11.12.2019		
Testing basis	EN 14511:2013, EN 14825:2016, EN 16147:17, EN 12102:2013		

Model: MHA-V8W/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	8.37 kW	7.60 kW
El input	1.77 kW	2.51 kW
COP	4.74	3.03
Indoor water flow rate	1.45 m³/h	0.83 m³/h

Average Climate

EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	39 dB(A)	39 dB(A)
Sound power level outdoor	63 dB(A)	63 dB(A)

EN 14825

	Low temperature	Medium temperature
η_s	195 %	133 %
Prated	8.23 kW	7.57 kW
SCOP	4.96	3.37
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	7.28 kW	6.70 kW
COP Tj = -7°C	3.07	2.03
Cdh	0.90	0.90
Pdh Tj = +2°C	4.71 kW	4.34 kW
COP Tj = +2°C	4.78	3.40
Cdh	0.90	0.90
Pdh Tj = +7°C	2.73 kW	2.77 kW
COP Tj = +7°C	6.73	4.47
Cdh	0.90	0.90

Pdh Tj = 12°C	1.57 kW	1.27 kW
COP Tj = 12°C	8.53	5.04
Cdh	0.90	0.90
Pdh Tj = Tbiv	7.28 kW	6.70 kW
COP Tj = Tbiv	3.07	2.03
Pdh Tj = TOL	6.76 kW	6.29 kW
COP Tj = TOL	2.57	1.65
WTOL	60 °C	60 °C
Poff	15 W	15 W
PTO	15 W	15 W
PSB	15 W	15 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	electric	electric
Supplementary Heater: PSUP	1.47 kW	1.28 kW
Annual energy consumption Qhe	3431 kWh	4605 kWh

Warmer Climate

EN 12102-1	
	Low temperature
Sound power level indoor	39 dB(A)
Sound power level outdoor	63 dB(A)

Colder Climate

EN 12102-1	
	Low temperature
Sound power level indoor	39 dB(A)
Sound power level outdoor	63 dB(A)

Domestic Hot Water (DHW)

Average Climate

EN 16147	
Declared load profile	L
Efficiency ηDHW	115 %
COP	2.66
Heating up time	2:16 h:min
Standby power input	58.0 W
Reference hot water temperature	49.5 °C
Mixed water at 40°C	210 l

Warmer Climate

Colder Climate

Model: MHA-V10W/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	9.97 kW	8.73 kW
El input	2.19 kW	2.98 kW
COP	4.55	2.93
Indoor water flow rate	1.73 m³/h	0.96 m³/h

Average Climate

EN 12102-1		
	Low temperature	**Medium temperature**
Sound power level indoor	39 dB(A)	39 dB(A)
Sound power level outdoor	65 dB(A)	65 dB(A)

EN 14825		
	Low temperature	**Medium temperature**
η_s	199 %	139 %
Prated	9.51 kW	8.50 kW
SCOP	5.04	3.56
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	8.41 kW	7.52 kW
COP Tj = -7°C	3.17	2.25
Cdh	0.90	0.90
Pdh Tj = +2°C	5.32 kW	4.91 kW
COP Tj = +2°C	4.71	3.49
Cdh	0.90	0.90
Pdh Tj = +7°C	3.58 kW	3.13 kW
COP Tj = +7°C	7.12	4.71
Cdh	0.90	0.90

Pdh Tj = 12°C	1.61 kW	1.34 kW
COP Tj = 12°C	9.88	5.57
Cdh	0.90	0.90
Pdh Tj = Tbiv	8.41 kW	7.52 kW
COP Tj = Tbiv	3.17	2.25
Pdh Tj = TOL	7.01 kW	6.29 kW
COP Tj = TOL	2.57	1.65
WTOL	60 °C	60 °C
Poff	15 W	15 W
PTO	15 W	15 W
PSB	15 W	15 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	electric	electric
Supplementary Heater: PSUP	2.50 kW	2.21 kW
Annual energy consumption Qhe	3900 kWh	4936 kWh

Warmer Climate

EN 12102-1	
	Low temperature
Sound power level indoor	39 dB(A)
Sound power level outdoor	65 dB(A)

Colder Climate

EN 12102-1	
	Low temperature
Sound power level indoor	39 dB(A)
Sound power level outdoor	65 dB(A)

Domestic Hot Water (DHW)

Average Climate

EN 16147	
Declared load profile	L
Efficiency ηDHW	115 %
COP	2.66
Heating up time	2:16 h:min
Standby power input	58.0 W
Reference hot water temperature	49.5 °C
Mixed water at 40°C	210 l

Warmer Climate

Colder Climate

Model: MHA-V8W/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	8.37 kW	7.60 kW
El input	1.77 kW	2.51 kW
COP	4.74	3.03
Indoor water flow rate	1.45 m³/h	0.83 m³/h

Average Climate

EN 12102-1		
	Low temperature	**Medium temperature**
Sound power level indoor	39 dB(A)	39 dB(A)
Sound power level outdoor	63 dB(A)	63 dB(A)

EN 14825		
	Low temperature	**Medium temperature**
η_s	195 %	133 %
Prated	8.23 kW	7.57 kW
SCOP	4.96	3.37
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	7.28 kW	6.70 kW
COP Tj = -7°C	3.07	2.03
Cdh	0.90	0.90
Pdh Tj = +2°C	4.71 kW	4.34 kW
COP Tj = +2°C	4.78	3.40
Cdh	0.90	0.90
Pdh Tj = +7°C	2.73 kW	2.77 kW
COP Tj = +7°C	6.73	4.47
Cdh	0.90	0.90

Pdh Tj = 12°C	1.57 kW	1.27 kW
COP Tj = 12°C	8.53	5.04
Cdh	0.90	0.90
Pdh Tj = Tbiv	7.28 kW	6.70 kW
COP Tj = Tbiv	3.07	2.03
Pdh Tj = TOL	6.76 kW	6.29 kW
COP Tj = TOL	2.57	1.65
WTOL	60 °C	60 °C
Poff	15 W	15 W
PTO	15 W	15 W
PSB	15 W	15 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	electric	electric
Supplementary Heater: PSUP	1.47 kW	1.28 kW
Annual energy consumption Qhe	3431 kWh	4605 kWh

Warmer Climate

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	Low temperature
Sound power level indoor	39 dB(A)
Sound power level outdoor	63 dB(A)

Colder Climate

EN 12102-1	
	Low temperature
Sound power level indoor	39 dB(A)
Sound power level outdoor	63 dB(A)

Domestic Hot Water (DHW)

Average Climate

EN 16147	
Declared load profile	XL
Efficiency ηDHW	108 %
COP	2.52
Heating up time	3:14 h:min
Standby power input	93.0 W
Reference hot water temperature	54.1 °C
Mixed water at 40°C	325 l

Warmer Climate

Colder Climate

Model: MHA-V10W/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	9.97 kW	8.73 kW
El input	2.19 kW	2.98 kW
COP	4.55	2.93
Indoor water flow rate	1.73 m³/h	0.96 m³/h

Average Climate

EN 12102-1		
	Low temperature	**Medium temperature**
Sound power level indoor	39 dB(A)	39 dB(A)
Sound power level outdoor	65 dB(A)	65 dB(A)

EN 14825		
	Low temperature	**Medium temperature**
η_s	199 %	139 %
Prated	9.51 kW	8.50 kW
SCOP	5.04	3.56
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COP Tj = +2°C	4.71	3.49
Cdh	0.90	0.90
Pdh Tj = +7°C	3.58 kW	3.13 kW
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PCK	0 W	0 W
Supplementary Heater: Type of energy input	electric	electric
Supplementary Heater: PSUP	2.50 kW	2.21 kW
Annual energy consumption Qhe	3900 kWh	4936 kWh

Warmer Climate

EN 12102-1	
	Low temperature
Sound power level indoor	39 dB(A)
Sound power level outdoor	65 dB(A)

Colder Climate

EN 12102-1	
	Low temperature
Sound power level indoor	39 dB(A)
Sound power level outdoor	65 dB(A)

Domestic Hot Water (DHW)

Average Climate

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Warmer Climate

Colder Climate