Summary of	MDAN-YMi 2.1, 3.1 + SRHME A with tank	Reg. No.	ICIM-PDC-000052-01
Certificate Holder			
Name	Clivet s.p.a.		
Address	Via camp lonc 25 c.ap.	Zip	I-32032
City	z.i. Villapaiera - Feltre (BL)	Country	Italy
Certification Body	ICIM S.p.A.		
Name of testing laboratory	OBL products - ReLab Politecnico di Milano		
Subtype title	MDAN-YMi 2.1, 3.1 + SRHME A with tank		
Heat Pump Type	Outdoor Air/Water		
Refrigerant	R32		
Mass Of Refrigerant	1.55 kg		
Certification Date	17.01.2020		
Testing basis	HP KEYMARK certification scheme rules rev. no. 7		

Model: MDAN-YMi 2.1 + SRHME 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	4.49 kW	4.10 kW
El input	0.92 kW	1.48 kW
COP	4.87	2.77
Indoor water flow rate	0.78 m³/h	0.45 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	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

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
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	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 %
COP	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 l

Warmer Climate

Colder Climate

Model: MDAN-YMi 3.1 + SRHME 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	6.32 kW	5.47 kW
El input	1.36 kW	1.87 kW
COP	4.66	2.92
Indoor water flow rate	1.10 m³/h	0.60 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	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

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	5.23 kW	5.17 kW
COP Tj = Tbiv	3.09	2.09
Pdh Tj = TOL	5.24 kW	4.79 kW
COP Tj = TOL	2.67	1.85
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	0.67 kW	1.05 kW
Annual energy consumption Qhe	2501 kWh	3586 kWh

Warmer Climate

EN 12102-1	
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Warmer Climate

Colder Climate

Model: MDAN-YMi 2.1 + SRHME A

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Power supply	1x230V 50Hz

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Domestic Hot Water (DHW)

Average Climate

EN 16147	
Declared load profile	XL
Efficiency ηDHW	93 %
COP	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 l

Warmer Climate

Colder Climate

Model: MDAN-YMi 3.1 + SRHME A

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Warmer Climate

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