

Subtype Thunder 14.1 - 16.1

Certificate Holder	Clivet s.p.a.
Address	Via camp lonc 25 c.ap.
ZIP	I-32032
City	z.i. Villapaiera - Feltre (BL)
Country	IT
Certification Body	ICIM S.p.A.
Subtype title	Thunder 14.1 - 16.1
Registration number	ICIM-PDC-000335
Heat Pump Type	Outdoor Air/Water
Refrigerant	R290
Mass of Refrigerant	4.9 kg
Certification Date	04.06.2025
Testing laboratory	IMQ S.p.A., IT

Model WiSAN-P 14.1

Model name	WiSAN-P 14.1
Application	Heating (medium temp)
Units	Outdoor
Climate zone (for heating)	n/a
Reversibility	Yes
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

General data

Power supply	3x400V 50Hz
Off-peak product	n/a

Outdoor Air/Water

EN 14511-2 | Heating

	Low temperature	Medium temperature
Heat output	40.10 kW	37.00 kW
El input	10.23 kW	13.65 kW
COP	3.92	2.71

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level outdoor	75 dB(A)	75 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
η_s	177 %	139 %
Prated	29.05 kW	27.02 kW
SCOP	4.51	3.54
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	25.70 kW	23.90 kW
COP Tj = -7°C	2.67	1.95
Cdh Tj = -7 °C		
Pdh Tj = +2°C	15.60 kW	14.90 kW
COP Tj = +2°C	4.56	3.55
Cdh Tj = +2 °C		
Pdh Tj = +7°C	12.30 kW	11.60 kW
COP Tj = +7°C	6.23	5.03
Cdh Tj = +7 °C		
Pdh Tj = 12°C	13.80 kW	13.20 kW
COP Tj = 12°C	7.43	6.60
Cdh Tj = +12 °C		
Pdh Tj = Tbiv	25.70 kW	23.90 kW
COP Tj = Tbiv	2.67	1.95

Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	25.80 kW	24.50 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.06	1.52
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh		
WTOL	35 °C	55 °C
Poff	110 W	110 W
PTO	180 W	180 W
PSB	110 W	110 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	n/a	n/a
Supplementary Heater: PSUP	3.25 kW	2.52 kW
Annual energy consumption Qhe	13341 kWh	15800 kWh

Model WiSAN-P 16.1

Model name	WiSAN-P 16.1
Application	Heating (medium temp)
Units	Outdoor
Climate zone (for heating)	n/a
Reversibility	Yes
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

General data

Power supply	3x400V 50Hz
Off-peak product	n/a

Outdoor Air/Water

EN 14511-2 | Heating

	Low temperature	Medium temperature
Heat output	46.80 kW	42.90 kW
El input	12.60 kW	16.70 kW
COP	3.71	2.57

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level outdoor	75 dB(A)	75 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
η_s	175 %	137 %
Prated	33.69 kW	30.07 kW
SCOP	4.45	3.51
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	29.80 kW	26.60 kW
COP Tj = -7°C	2.56	1.90
Cdh Tj = -7 °C		
Pdh Tj = +2°C	17.70 kW	16.80 kW
COP Tj = +2°C	4.47	3.52
Cdh Tj = +2 °C		
Pdh Tj = +7°C	12.30 kW	11.60 kW
COP Tj = +7°C	6.23	5.03
Cdh Tj = +7 °C		
Pdh Tj = 12°C	13.80 kW	13.20 kW
COP Tj = 12°C	7.43	6.60
Cdh Tj = +12 °C		
Pdh Tj = Tbiv	29.80 kW	26.60 kW
COP Tj = Tbiv	2.56	1.90

Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	25.80 kW	24.50 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.06	1.52
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh		
WTOL	35 °C	55 °C
Poff	110 W	110 W
PTO	200 W	200 W
PSB	110 W	110 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	n/a	n/a
Supplementary Heater: PSUP	7.89 kW	5.57 kW
Annual energy consumption Qhe	15675 kWh	17735 kWh