

Subtype ANGHP12

Certificate Holder	Argoclima S.p.A
Address	Via Alfeno Varo, 35
ZIP	25020
City	Alfianello (BS)
Country	IT
Certification Body	UL International Italia S.r.l.
Subtype title	ANGHP12
Registration number	047-A1000
Heat Pump Type	Outdoor Air/Water
Refrigerant	R290
Mass of Refrigerant	1.1 kg
Certification Date	27.02.2025
Testing basis	Heat Pump Keymark scheme rules V15

Model ANGHP12S

Model name	ANGHP12S
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	1x230V 50Hz
Off-peak product	n/a

Outdoor Air/Water

EN 14511-4 | Heating

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

EN 14511-2 | Heating

	Low temperature	Medium temperature
Heat output	12.37 kW	11.50 kW
El input	2.73 kW	3.89 kW
COP	4.53	2.95

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level outdoor	52 dB(A)	53 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
η_s	188 %	150 %
Prated	10.50 kW	9.00 kW
SCOP	4.78	3.82
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	8.68 kW	7.77 kW
COP Tj = -7°C	2.84	2.24
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	5.55 kW	4.78 kW
COP Tj = +2°C	4.48	3.72
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	3.59 kW	3.12 kW

COP Tj = +7°C	6.83	5.05
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	2.64 kW	2.61 kW
COP Tj = 12°C	9.97	7.81
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	8.68 kW	7.77 kW
COP Tj = Tbiv	2.84	2.24
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.20 kW	7.37 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.60	1.94
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	75 °C	75 °C
Poff	6 W	6 W
PTO	6 W	6 W
PSB	6 W	6 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	2.30 kW	1.63 kW
Annual energy consumption Qhe	4540 kWh	4870 kWh

Model ANGHP12T

Model name	ANGHP12T
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 14511-4 | Heating

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

EN 14511-2 | Heating

	Low temperature	Medium temperature
Heat output	12.37 kW	11.50 kW
El input	2.73 kW	3.89 kW
COP	4.53	2.95

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level outdoor	52 dB(A)	53 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
η_s	188 %	150 %
Prated	10.50 kW	9.00 kW
SCOP	4.78	3.82
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	8.68 kW	7.77 kW
COP Tj = -7°C	2.84	2.24
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	5.55 kW	4.78 kW
COP Tj = +2°C	4.48	3.72
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	3.59 kW	3.12 kW

COP Tj = +7°C	6.83	5.05
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	2.64 kW	2.61 kW
COP Tj = 12°C	9.97	7.81
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	8.68 kW	7.77 kW
COP Tj = Tbiv	2.84	2.24
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.20 kW	7.37 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.60	1.94
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	75 °C	75 °C
Poff	6 W	6 W
PTO	6 W	6 W
PSB	6 W	6 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	2.30 kW	1.63 kW
Annual energy consumption Qhe	4540 kWh	4870 kWh