

Subtype T30

Certificate Holder	Teon S.r.l.
Address	Via Suor Maria Pelletier 4
ZIP	20900
City	Monza (MB)
Country	IT
Certification Body	ICIM S.p.A.
Subtype title	T30
Registration number	ICIM-PDC-000288
Heat Pump Type	Water/Water
Refrigerant	R600a
Mass of Refrigerant	2.5 kg
Certification Date	26.09.2024

Model T30 Water

Model name	T30 Water
Application	Heating (medium temp)
Units	Outdoor
Climate zone (for heating)	Colder, Colder Climate
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

General data

Power supply	3x400V 50Hz
Off-peak product	No

Water/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	29.20 kW	25.00 kW
EI input	5.61 kW	6.68 kW
COP	5.20	3.74

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level outdoor	66 dB(A)	66 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
η_s	155 %	117 %
Prated	29.20 kW	25.00 kW
SCOP	4.08	3.12
Tbiv	-10 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	29.20 kW	25.00 kW
COP Tj = -7°C	5.20	3.74
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	29.20 kW	25.00 kW
COP Tj = +2°C	5.20	3.74
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	29.20 kW	25.00 kW
COP Tj = +7°C	5.20	3.74

Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	29.20 kW	25.00 kW
COP Tj = 12°C	5.20	3.74
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	29.20 kW	25.00 kW
COP Tj = Tbiv	5.20	3.74
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	29.20 kW	25.00 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	5.20	3.74
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	80 °C	80 °C
Poff	220 W	220 W
PTO	220 W	220 W
PSB	220 W	220 W
PCK	220 W	220 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	15176 kWh	19894 kWh

EN 12102-1 | Colder Climate

	Low temperature	Medium temperature
Sound power level outdoor	66 dB(A)	66 dB(A)

EN 14825 | Colder Climate

	Low temperature	Medium temperature
ηs	162 %	120 %
Prated	29.20 kW	25.00 kW
SCOP	4.24	3.20
Tbiv	-21 °C	-13 °C
TOL	-22 °C	-22 °C
Pdh Tj = -7°C	29.20 kW	25.00 kW
COP Tj = -7°C	5.20	3.74
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	29.20 kW	25.00 kW
COP Tj = +2°C	5.20	3.74
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	29.20 kW	25.00 kW
COP Tj = +7°C	5.20	3.74
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	29.20 kW	25.00 kW
COP Tj = 12°C	5.20	3.74
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	29.20 kW	25.00 kW
COP Tj = Tbiv	5.20	3.74

Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	29.20 kW	25.00 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	5.20	3.74
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	80 °C	80 °C
Poff	220 W	220 W
PTO	220 W	220 W
PSB	220 W	220 W
PCK	220 W	220 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	17436 kWh	23126 kWh