

## 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
El 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
$\eta_s$	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