

Subtype T60 Water

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	T60 Water
Registration number	ICIM-PDC-000289
Heat Pump Type	Water/Water
Refrigerant	R600a
Mass of Refrigerant	4.51 kg
Certification Date	26.09.2024

Model T60 Water

Model name	T60 Water
Application	Heating (medium temp)
Units	Indoor
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	54.17 kW	48.85 kW
EI input	10.77 kW	13.10 kW
COP	5.03	3.73

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	69 dB(A)	69 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
ηs	170 %	124 %
Prated	54.40 kW	50.08 kW
SCOP	4.45	3.31
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	54.40 kW	46.30 kW
COP Tj = -7°C	5.03	3.76
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	54.40 kW	49.70 kW
COP Tj = +2°C	5.28	4.30
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	54.40 kW	51.05 kW
COP Tj = +7°C	5.28	4.50

Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	54.40 kW	53.06 kW
COP Tj = 12°C	5.28	4.83
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	54.40 kW	50.08 kW
COP Tj = Tbiv	5.09	3.96
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	54.40 kW	50.08 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	5.09	3.96
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	27880 kWh	37431 kWh

EN 12102-1 | Colder Climate

	Low temperature	Medium temperature
Sound power level indoor	69 dB(A)	69 dB(A)

EN 14825 | Colder Climate

	Low temperature	Medium temperature
ηs	172 %	125 %
Prated	54.40 kW	46.30 kW
SCOP	4.50	3.32
Tbiv	-21 °C	-13 °C
TOL	-22 °C	-22 °C
Pdh Tj = -7°C	54.40 kW	46.30 kW
COP Tj = -7°C	5.28	3.74
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	54.40 kW	46.30 kW
COP Tj = +2°C	5.28	3.74
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	54.40 kW	46.30 kW
COP Tj = +7°C	5.28	3.74
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	54.40 kW	46.30 kW
COP Tj = 12°C	5.28	3.74
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	54.40 kW	46.30 kW
COP Tj = Tbiv	5.28	3.74

Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	54.40 kW	46.30 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	5.28	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	32869 kWh	44612 kWh