

Subtype iTec Eco 8 400V

Certificate Holder	Thermia
Address	Snickaregatan 1
ZIP	
City	Arvika
Country	SE
Certification Body	DIN CERTCO Gesellschaft für Konformitätsbewertung mbH
Subtype title	iTec Eco 8 400V
Registration number	011-1W1045
Heat Pump Type	Outdoor Air/Water
Refrigerant	R32
Mass of Refrigerant	1.15 kg
Certification Date	22.04.2025
Testing basis	European KEYMARK Scheme for Heat Pumps rev.14 (as of 2024-04)

Model iTec Eco 8 400V

Model name	iTec Eco 8 400V
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	8.00 kW	7.10 kW
El input	1.77 kW	2.53 kW
COP	4.52	2.81

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level outdoor	63 dB(A)	63 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
η_s	175 %	126 %
Prated	8.00 kW	8.00 kW
SCOP	4.44	3.23
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	7.08 kW	7.08 kW
COP Tj = -7°C	2.63	1.90
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	4.31 kW	4.31 kW
COP Tj = +2°C	4.24	3.11
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	3.10 kW	2.80 kW

COP Tj = +7°C	6.39	4.55
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	2.60 kW	2.40 kW
COP Tj = 12°C	8.22	5.77
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	7.08 kW	7.08 kW
COP Tj = Tbiv	2.63	1.90
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	7.00 kW	6.80 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.48	1.66
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	65 °C	65 °C
Poff	22 W	22 W
PTO	22 W	22 W
PSB	22 W	22 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.00 kW	1.20 kW
Annual energy consumption Qhe	3719 kWh	5113 kWh