

## Subtype iTec XT 14/16

Certificate Holder	Thermia
Address	Snickaregatan 1
ZIP	
City	Arvika
Country	SE
Certification Body	DIN CERTCO Gesellschaft für Konformitätsbewertung mbH
Subtype title	iTec XT 14/16
Registration number	011-1W0743
Heat Pump Type	Outdoor Air/Water
Refrigerant	R32
Mass of Refrigerant	3.3 kg
Certification Date	12.12.2023
Testing basis	European KEYMARK Scheme for Heat Pumps Rev. 12 (as of 2023-03)

## Model iTec XT 14 230-1

Model name	iTec XT 14 230-1
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	12.00 kW	12.00 kW
El input	2.35 kW	3.53 kW
COP	5.11	3.40

### EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level outdoor	59 dB(A)	59 dB(A)

### EN 14825 | Average Climate

	Low temperature	Medium temperature
$\eta_s$	193 %	148 %
Prated	12.60 kW	12.60 kW
SCOP	4.90	3.78
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	11.15 kW	11.15 kW
COP Tj = -7°C	3.10	2.30
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	6.80 kW	6.80 kW
COP Tj = +2°C	4.70	3.70
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	4.70 kW	4.70 kW

COP Tj = +7°C	6.60	5.00
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	4.70 kW	4.70 kW
COP Tj = 12°C	8.60	6.30
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	11.15 kW	11.15 kW
COP Tj = Tbiv	3.10	2.30
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	12.30 kW	12.30 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.70	2.05
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	70 °C	70 °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	0.30 kW	0.30 kW
Annual energy consumption Qhe	5277 kWh	6862 kWh

## Model iTec XT 14 400V

Model name	iTec XT 14 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	12.00 kW	12.00 kW
El input	2.35 kW	3.53 kW
COP	5.11	3.40

### EN 12102-1 | Average Climate

	Low temperature	Medium temperature
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Pdh Tj = -7°C	11.15 kW	11.15 kW
COP Tj = -7°C	3.10	2.30
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	6.80 kW	6.80 kW
COP Tj = +2°C	4.70	3.70
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	4.70 kW	4.70 kW

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Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	4.70 kW	4.70 kW
COP Tj = 12°C	8.60	6.30
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	11.15 kW	11.15 kW
COP Tj = Tbiv	3.10	2.30
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	12.30 kW	12.30 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.70	2.05
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WTOL	70 °C	70 °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	0.30 kW	0.30 kW
Annual energy consumption Qhe	5277 kWh	6862 kWh

## Model iTec XT 16 230-1

Model name	iTec XT 16 230-1
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	14.00 kW	14.00 kW
El input	2.77 kW	4.18 kW
COP	5.05	3.35

### EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level outdoor	59 dB(A)	59 dB(A)

### EN 14825 | Average Climate

	Low temperature	Medium temperature
$\eta_s$	190 %	147 %
Prated	13.60 kW	13.60 kW
SCOP	4.83	3.75
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	12.03 kW	12.03 kW
COP Tj = -7°C	2.90	2.28
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	7.32 kW	7.32 kW
COP Tj = +2°C	4.65	3.65
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	4.80 kW	4.80 kW

COP Tj = +7°C	6.60	5.00
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	4.80 kW	4.80 kW
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Pdh Tj = Tbiv	12.03 kW	12.03 kW
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WTOL	70 °C	70 °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	0.30 kW	0.30 kW
Annual energy consumption Qhe	5796 kWh	7472 kWh

## Model iTec XT 16 400V

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Units	Outdoor
Climate zone (for heating)	n/a
Reversibility	Yes
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

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COP Tj = -7°C	2.90	2.28
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	7.32 kW	7.32 kW
COP Tj = +2°C	4.65	3.65
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	4.80 kW	4.80 kW



COP Tj = +7°C	6.60	5.00
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Pdh Tj = 12°C	4.80 kW	4.80 kW
COP Tj = 12°C	8.60	6.28
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	12.03 kW	12.03 kW
COP Tj = Tbiv	2.90	2.28
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	13.30 kW	13.30 kW
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Supplementary Heater: PSUP	0.30 kW	0.30 kW
Annual energy consumption Qhe	5796 kWh	7472 kWh