

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 |
|----------------|-----------------|--------------------|
| η_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 |
|---------------------------|-----------------|--------------------|
| Sound power level outdoor | 59 dB(A) | 59 dB(A) |

EN 14825 | Average Climate

| | Low temperature | Medium temperature |
|----------------|-----------------|--------------------|
| η_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 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 |
|----------------|-----------------|--------------------|
| η_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 |
| 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 |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 2.65 | 2.00 |
| 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 | 5796 kWh | 7472 kWh |

Model iTec XT 16 400V

| | |
|-------------------------------------|-----------------------|
| Model name | iTec XT 16 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

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|-------------------------------|--------|
| Complete power supply failure | passed |
| Defrost test | passed |
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|-------------|-----------------|--------------------|
| Heat output | 14.00 kW | 14.00 kW |
| El input | 2.77 kW | 4.18 kW |
| COP | 5.05 | 3.35 |

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| Sound power level outdoor | 59 dB(A) | 59 dB(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 |
| Cdh Tj = +7 °C | 0.900 | 0.900 |
| 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 |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 2.65 | 2.00 |
| 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 | 5796 kWh | 7472 kWh |