

Subtype Thermia Legend 10

| | |
|---------------------|--|
| Certificate Holder | Thermia |
| Address | Snickaregatan 1 |
| ZIP | |
| City | Arvika |
| Country | SE |
| Certification Body | RISE CERT |
| Subtype title | Thermia Legend 10 |
| Registration number | 012-C700204 |
| Heat Pump Type | Brine/Water and Water/Water |
| Refrigerant | R452B |
| Mass of Refrigerant | 1.075 kg |
| Certification Date | 13.03.2024 |
| Testing basis | EN 14511:2018, EN 14825:2018, EN 12102:2017. |
| Testing laboratory | RISE Research Institutes of Sweden |

Model Thermia Legend 10 400V

| | |
|-------------------------------------|--|
| Model name | Thermia Legend 10 400V |
| Application | Heating (medium temp) |
| Units | Indoor |
| Climate zone (for heating) | Colder, Warmer, Warmer Climate, Colder Climate |
| Cooling mode application (optional) | n/a |
| Any additional heat sources | n/a |

General data

| | |
|------------------|-------------|
| Power supply | 3x400V 50Hz |
| Off-peak product | Yes |

Brine/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 | 9.81 kW | 9.25 kW |
| EI input | 2.06 kW | 3.04 kW |
| COP | 4.76 | 3.05 |

EN 12102-1 | Average Climate

| | Low temperature | Medium temperature |
|--------------------------|-----------------|--------------------|
| Sound power level indoor | 41 dB(A) | 42 dB(A) |

EN 14825 | Average Climate

| | Low temperature | Medium temperature |
|----------------|-----------------|--------------------|
| η_s | 195 % | 145 % |
| Prated | 10.60 kW | 11.77 kW |
| SCOP | 5.09 | 3.84 |
| Tbiv | -8 °C | -5 °C |
| TOL | -10 °C | -10 °C |
| Pdh Tj = -7°C | 9.81 kW | 9.39 kW |
| COP Tj = -7°C | 4.78 | 3.26 |
| Cdh Tj = -7 °C | 0.996 | 0.997 |
| Pdh Tj = +2°C | 10.00 kW | 9.63 kW |
| COP Tj = +2°C | 5.08 | 3.86 |
| Cdh Tj = +2 °C | 0.996 | 0.997 |
| Pdh Tj = +7°C | 10.13 kW | 9.76 kW |
| COP Tj = +7°C | 5.37 | 4.24 |

| | | |
|---|-------------|-------------|
| Cdh Tj = +7 °C | 0.996 | 0.996 |
| Pdh Tj = 12°C | 10.15 kW | 9.88 kW |
| COP Tj = 12°C | 5.62 | 4.69 |
| Cdh Tj = +12 °C | 0.995 | 0.996 |
| Pdh Tj = Tbiv | 9.79 kW | 9.51 kW |
| COP Tj = Tbiv | 4.73 | 3.44 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 9.74 kW | 9.22 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 4.65 | 3.02 |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 0.996 | 0.997 |
| WTOL | 65 °C | 65 °C |
| Poff | 4 W | 4 W |
| PTO | 8 W | 8 W |
| PSB | 8 W | 8 W |
| PCK | 0 W | 0 W |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 0.86 kW | 2.55 kW |
| Annual energy consumption Qhe | 4305 kWh | 6337 kWh |

EN 12102-1 | Colder Climate

| | Low temperature | Medium temperature |
|--------------------------|-----------------|--------------------|
| Sound power level indoor | 41 dB(A) | 42 dB(A) |

EN 14825 | Colder Climate

| | Low temperature | Medium temperature |
|-----------------|-----------------|--------------------|
| ηs | 202 % | 150 % |
| Prated | 11.43 kW | 11.29 kW |
| SCOP | 5.24 | 3.94 |
| Tbiv | -17 °C | -16 °C |
| TOL | -22 °C | -22 °C |
| Pdh Tj = -7°C | 10.06 kW | 9.59 kW |
| COP Tj = -7°C | 5.17 | 3.72 |
| Cdh Tj = -7 °C | 0.996 | 0.997 |
| Pdh Tj = +2°C | 10.13 kW | 9.73 kW |
| COP Tj = +2°C | 5.40 | 4.15 |
| Cdh Tj = +2 °C | 0.996 | 0.996 |
| Pdh Tj = +7°C | 10.15 kW | 9.84 kW |
| COP Tj = +7°C | 5.56 | 4.54 |
| Cdh Tj = +7 °C | 0.995 | 0.996 |
| Pdh Tj = 12°C | 10.15 kW | 9.93 kW |
| COP Tj = 12°C | 5.59 | 4.87 |
| Cdh Tj = +12 °C | 0.995 | 0.996 |
| Pdh Tj = Tbiv | 9.93 kW | 9.50 kW |
| COP Tj = Tbiv | 4.96 | 3.44 |

| | | |
|---|-------------|-------------|
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 9.74 kW | 9.22 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 4.65 | 3.02 |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 0.996 | 0.997 |
| WTOL | 65 °C | 65 °C |
| Poff | 4 W | 4 W |
| PTO | 8 W | 8 W |
| PSB | 8 W | 8 W |
| PCK | 0 W | 0 W |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 1.69 kW | 2.07 kW |
| Annual energy consumption Qhe | 5379 kWh | 7064 kWh |

EN 12102-1 | Warmer Climate

| | Low temperature | Medium temperature |
|--------------------------|-----------------|--------------------|
| Sound power level indoor | 41 dB(A) | 42 dB(A) |

EN 14825 | Warmer Climate

| | Low temperature | Medium temperature |
|---|-----------------|--------------------|
| ηs | 198 % | 147 % |
| Prated | 11.52 kW | 10.99 kW |
| SCOP | 5.15 | 3.87 |
| Tbiv | 4 °C | 4 °C |
| TOL | 2 °C | 2 °C |
| Pdh Tj = +2°C | 9.74 kW | 9.22 kW |
| COP Tj = +2°C | 4.65 | 3.02 |
| Cdh Tj = +2 °C | 0.996 | 0.997 |
| Pdh Tj = +7°C | 9.99 kW | 9.55 kW |
| COP Tj = +7°C | 5.05 | 3.57 |
| Cdh Tj = +7 °C | 0.996 | 0.997 |
| Pdh Tj = 12°C | 10.14 kW | 9.79 kW |
| COP Tj = 12°C | 5.47 | 4.37 |
| Cdh Tj = +12 °C | 0.995 | 0.996 |
| Pdh Tj = Tbiv | 9.87 kW | 9.42 kW |
| COP Tj = Tbiv | 4.88 | 3.31 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 9.74 kW | 9.22 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 4.65 | 3.02 |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 0.996 | 0.997 |
| WTOL | 65 °C | 65 °C |
| Poff | 4 W | 4 W |
| PTO | 8 W | 8 W |

| | | |
|--|-------------|-------------|
| PSB | 8 W | 8 W |
| PCK | 0 W | 0 W |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 1.78 kW | 1.77 kW |
| Annual energy consumption Qhe | 2990 kWh | 3799 kWh |

Water/Water**EN 14511-4 | Heating**

Shutting off the heat transfer medium flow passed

| | |
|-------------------------------|--------|
| Complete power supply failure | passed |
| Starting and operating test | passed |

EN 14511-2 | Heating

| | Low temperature | Medium temperature |
|-------------|-----------------|--------------------|
| Heat output | 12.55 kW | 12.01 kW |
| El input | 2.13 kW | 3.18 kW |
| COP | 5.90 | 3.78 |

EN 14825 | Average Climate

| | Low temperature | Medium temperature |
|---|-----------------|--------------------|
| η_s | 247 % | 186 % |
| Prated | 13.27 kW | 14.46 kW |
| SCOP | 6.38 | 4.85 |
| Tbiv | -9 °C | -6 °C |
| TOL | -10 °C | -10 °C |
| Pdh Tj = -7°C | 12.76 kW | 12.18 kW |
| COP Tj = -7°C | 6.14 | 4.08 |
| Cdh Tj = -7 °C | 0.996 | 0.997 |
| Pdh Tj = +2°C | 12.73 kW | 12.45 kW |
| COP Tj = +2°C | 6.37 | 4.86 |
| Cdh Tj = +2 °C | 0.996 | 0.997 |
| Pdh Tj = +7°C | 12.64 kW | 12.55 kW |
| COP Tj = +7°C | 6.62 | 5.39 |
| Cdh Tj = +7 °C | 0.996 | 0.996 |
| Pdh Tj = 12°C | 12.51 kW | 12.69 kW |
| COP Tj = 12°C | 6.85 | 5.99 |
| Cdh Tj = +12 °C | 0.995 | 0.996 |
| Pdh Tj = Tbiv | 12.76 kW | 12.24 kW |
| COP Tj = Tbiv | 6.05 | 4.20 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 12.76 kW | 12.01 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 6.01 | 3.78 |

| | | |
|---|-------------|-------------|
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 0.996 | 0.997 |
| WTOL | 65 °C | 65 °C |
| Poff | 4 W | 4 W |
| PTO | 8 W | 8 W |
| PSB | 8 W | 8 W |
| PCK | 0 W | 0 W |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 0.51 kW | 2.45 kW |
| Annual energy consumption Qhe | 4301 kWh | 6164 kWh |

EN 14825 | Colder Climate

| | Low temperature | Medium temperature |
|---|-----------------|--------------------|
| ηs | 252 % | 192 % |
| Prated | 14.25 kW | 14.10 kW |
| SCOP | 6.50 | 4.99 |
| Tbiv | -18 °C | -17 °C |
| TOL | -22 °C | -22 °C |
| Pdh Tj = -7°C | 12.71 kW | 12.40 kW |
| COP Tj = -7°C | 6.45 | 4.68 |
| Cdh Tj = -7 °C | 0.996 | 0.997 |
| Pdh Tj = +2°C | 12.62 kW | 12.53 kW |
| COP Tj = +2°C | 6.65 | 5.27 |
| Cdh Tj = +2 °C | 0.996 | 0.996 |
| Pdh Tj = +7°C | 12.54 kW | 12.64 kW |
| COP Tj = +7°C | 6.79 | 5.80 |
| Cdh Tj = +7 °C | 0.995 | 0.996 |
| Pdh Tj = 12°C | 12.52 kW | 12.74 kW |
| COP Tj = 12°C | 6.82 | 6.24 |
| Cdh Tj = +12 °C | 0.995 | 0.996 |
| Pdh Tj = Tbiv | 12.75 kW | 12.25 kW |
| COP Tj = Tbiv | 6.23 | 4.22 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 12.76 kW | 12.01 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 6.01 | 3.78 |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 0.996 | 0.997 |
| WTOL | 65 °C | 65 °C |
| Poff | 4 W | 4 W |
| PTO | 8 W | 8 W |
| PSB | 8 W | 8 W |
| PCK | 0 W | 0 W |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 1.49 kW | 2.09 kW |

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|-------------------------------|----------|----------|
| Annual energy consumption Qhe | 4301 kWh | 6970 kWh |
|-------------------------------|----------|----------|

EN 14825 | Warmer Climate

| | Low temperature | Medium temperature |
|---|-----------------|--------------------|
| η_s | 249 % | 188 % |
| P _{rated} | 13.75 kW | 14.24 kW |
| SCOP | 6.42 | 4.89 |
| T _{biv} | 3 °C | 4 °C |
| TOL | 2 °C | 2 °C |
| P _{dh Tj = +2°C} | 12.76 kW | 12.01 kW |
| COP T _{j = +2°C} | 6.01 | 3.78 |
| C _{dh Tj = +2 °C} | 0.996 | 0.997 |
| P _{dh Tj = +7°C} | 12.73 kW | 12.35 kW |
| COP T _{j = +7°C} | 6.33 | 4.50 |
| C _{dh Tj = +7 °C} | 0.996 | 0.997 |
| P _{dh Tj = 12°C} | 12.59 kW | 12.59 kW |
| COP T _{j = 12°C} | 6.70 | 5.58 |
| C _{dh Tj = +12 °C} | 0.996 | 0.996 |
| P _{dh Tj = T_{biv}} | 12.76 kW | 12.21 kW |
| COP T _{j = T_{biv}} | 6.11 | 4.14 |
| P _{dh Tj = TOL or P_{dh Tj = T_{designh}} if TOL < T_{designh}} | 12.76 kW | 12.01 kW |
| COP T _{j = TOL or COP T_{j = T_{designh}} if TOL < T_{designh}} | 6.01 | 3.78 |
| C _{dh Tj = TOL or P_{dh Tj = T_{designh}} if TOL < T_{designh}} | 0.996 | 0.997 |
| WTOL | 65 °C | 65 °C |
| P _{off} | 4 W | 4 W |
| PTO | 8 W | 8 W |
| PSB | 8 W | 8 W |
| PCK | 0 W | 0 W |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 0.99 kW | 2.23 kW |
| Annual energy consumption Qhe | 2862 kWh | 3890 kWh |

Model Thermia Legend 10 230-1

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|-------------------------------------|--|
| Model name | Thermia Legend 10 230-1 |
| Application | Heating (medium temp) |
| Units | Indoor |
| Climate zone (for heating) | Colder, Warmer, Warmer Climate, Colder Climate |
| Cooling mode application (optional) | n/a |
| Any additional heat sources | n/a |

General data

| | |
|------------------|-------------|
| Power supply | 1x230V 50Hz |
| Off-peak product | Yes |

Brine/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 | 9.81 kW | 9.25 kW |
| EI input | 2.06 kW | 3.04 kW |
| COP | 4.76 | 3.05 |

EN 12102-1 | Average Climate

| | Low temperature | Medium temperature |
|--------------------------|-----------------|--------------------|
| Sound power level indoor | 41 dB(A) | 42 dB(A) |

EN 14825 | Average Climate

| | Low temperature | Medium temperature |
|----------------|-----------------|--------------------|
| η_s | 195 % | 145 % |
| Prated | 10.60 kW | 11.77 kW |
| SCOP | 5.09 | 3.84 |
| Tbiv | -8 °C | -5 °C |
| TOL | -10 °C | -10 °C |
| Pdh Tj = -7°C | 9.81 kW | 9.39 kW |
| COP Tj = -7°C | 4.78 | 3.26 |
| Cdh Tj = -7 °C | 0.996 | 0.997 |
| Pdh Tj = +2°C | 10.00 kW | 9.63 kW |
| COP Tj = +2°C | 5.08 | 3.86 |
| Cdh Tj = +2 °C | 0.996 | 0.997 |
| Pdh Tj = +7°C | 10.13 kW | 9.76 kW |
| COP Tj = +7°C | 5.37 | 4.24 |

| | | |
|---|-------------|-------------|
| Cdh Tj = +7 °C | 0.996 | 0.996 |
| Pdh Tj = 12°C | 10.15 kW | 9.88 kW |
| COP Tj = 12°C | 5.62 | 4.69 |
| Cdh Tj = +12 °C | 0.995 | 0.996 |
| Pdh Tj = Tbiv | 9.79 kW | 9.51 kW |
| COP Tj = Tbiv | 4.73 | 3.44 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 9.74 kW | 9.22 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 4.65 | 3.02 |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 0.996 | 0.997 |
| WTOL | 65 °C | 65 °C |
| Poff | 4 W | 4 W |
| PTO | 8 W | 8 W |
| PSB | 8 W | 8 W |
| PCK | 0 W | 0 W |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 0.86 kW | 2.55 kW |
| Annual energy consumption Qhe | 4305 kWh | 6337 kWh |

EN 12102-1 | Colder Climate

| | Low temperature | Medium temperature |
|--------------------------|-----------------|--------------------|
| Sound power level indoor | 41 dB(A) | 42 dB(A) |

EN 14825 | Colder Climate

| | Low temperature | Medium temperature |
|-----------------|-----------------|--------------------|
| ηs | 202 % | 150 % |
| Prated | 11.43 kW | 11.29 kW |
| SCOP | 5.24 | 3.94 |
| Tbiv | -17 °C | -16 °C |
| TOL | -22 °C | -22 °C |
| Pdh Tj = -7°C | 10.06 kW | 9.59 kW |
| COP Tj = -7°C | 5.17 | 3.72 |
| Cdh Tj = -7 °C | 0.996 | 0.997 |
| Pdh Tj = +2°C | 10.13 kW | 9.73 kW |
| COP Tj = +2°C | 5.40 | 4.15 |
| Cdh Tj = +2 °C | 0.996 | 0.996 |
| Pdh Tj = +7°C | 10.15 kW | 9.84 kW |
| COP Tj = +7°C | 5.56 | 4.54 |
| Cdh Tj = +7 °C | 0.995 | 0.996 |
| Pdh Tj = 12°C | 10.15 kW | 9.93 kW |
| COP Tj = 12°C | 5.59 | 4.87 |
| Cdh Tj = +12 °C | 0.995 | 0.996 |
| Pdh Tj = Tbiv | 9.93 kW | 9.50 kW |
| COP Tj = Tbiv | 4.96 | 3.44 |

| | | |
|---|-------------|-------------|
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 9.74 kW | 9.22 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 4.65 | 3.02 |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 0.996 | 0.997 |
| WTOL | 65 °C | 65 °C |
| Poff | 4 W | 4 W |
| PTO | 8 W | 8 W |
| PSB | 8 W | 8 W |
| PCK | 0 W | 0 W |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 1.69 kW | 2.07 kW |
| Annual energy consumption Qhe | 5379 kWh | 7064 kWh |

EN 12102-1 | Warmer Climate

| | Low temperature | Medium temperature |
|--------------------------|-----------------|--------------------|
| Sound power level indoor | 41 dB(A) | 42 dB(A) |

EN 14825 | Warmer Climate

| | Low temperature | Medium temperature |
|---|-----------------|--------------------|
| ηs | 198 % | 147 % |
| Prated | 11.52 kW | 10.99 kW |
| SCOP | 5.15 | 3.87 |
| Tbiv | 4 °C | 4 °C |
| TOL | 2 °C | 2 °C |
| Pdh Tj = +2°C | 9.74 kW | 9.22 kW |
| COP Tj = +2°C | 4.65 | 3.02 |
| Cdh Tj = +2 °C | 0.996 | 0.997 |
| Pdh Tj = +7°C | 9.99 kW | 9.55 kW |
| COP Tj = +7°C | 5.05 | 3.57 |
| Cdh Tj = +7 °C | 0.996 | 0.997 |
| Pdh Tj = 12°C | 10.14 kW | 9.79 kW |
| COP Tj = 12°C | 5.47 | 4.37 |
| Cdh Tj = +12 °C | 0.995 | 0.996 |
| Pdh Tj = Tbiv | 9.87 kW | 9.42 kW |
| COP Tj = Tbiv | 4.88 | 3.31 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 9.74 kW | 9.22 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 4.65 | 3.02 |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 0.996 | 0.997 |
| WTOL | 65 °C | 65 °C |
| Poff | 4 W | 4 W |
| PTO | 8 W | 8 W |

| | | |
|--|-------------|-------------|
| PSB | 8 W | 8 W |
| PCK | 0 W | 0 W |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 1.78 kW | 1.77 kW |
| Annual energy consumption Qhe | 2990 kWh | 3799 kWh |

Water/Water**EN 14511-4 | Heating**

Shutting off the heat transfer medium flow passed

| | |
|-------------------------------|--------|
| Complete power supply failure | passed |
| Starting and operating test | passed |

EN 14511-2 | Heating

| | Low temperature | Medium temperature |
|-------------|-----------------|--------------------|
| Heat output | 12.55 kW | 12.01 kW |
| El input | 2.13 kW | 3.18 kW |
| COP | 5.90 | 3.78 |

EN 14825 | Average Climate

| | Low temperature | Medium temperature |
|---|-----------------|--------------------|
| η_s | 247 % | 186 % |
| Prated | 13.27 kW | 14.46 kW |
| SCOP | 6.38 | 4.85 |
| Tbiv | -9 °C | -6 °C |
| TOL | -10 °C | -10 °C |
| Pdh Tj = -7°C | 12.76 kW | 12.18 kW |
| COP Tj = -7°C | 6.14 | 4.08 |
| Cdh Tj = -7 °C | 0.996 | 0.997 |
| Pdh Tj = +2°C | 12.73 kW | 12.45 kW |
| COP Tj = +2°C | 6.37 | 4.86 |
| Cdh Tj = +2 °C | 0.996 | 0.997 |
| Pdh Tj = +7°C | 12.64 kW | 12.55 kW |
| COP Tj = +7°C | 6.62 | 5.39 |
| Cdh Tj = +7 °C | 0.996 | 0.996 |
| Pdh Tj = 12°C | 12.51 kW | 12.69 kW |
| COP Tj = 12°C | 6.85 | 5.99 |
| Cdh Tj = +12 °C | 0.995 | 0.996 |
| Pdh Tj = Tbiv | 12.76 kW | 12.24 kW |
| COP Tj = Tbiv | 6.05 | 4.20 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 12.76 kW | 12.01 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 6.01 | 3.78 |

| | | |
|---|-------------|-------------|
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 0.996 | 0.997 |
| WTOL | 65 °C | 65 °C |
| Poff | 4 W | 4 W |
| PTO | 8 W | 8 W |
| PSB | 8 W | 8 W |
| PCK | 0 W | 0 W |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 0.51 kW | 2.45 kW |
| Annual energy consumption Qhe | 4301 kWh | 6164 kWh |

EN 14825 | Colder Climate

| | Low temperature | Medium temperature |
|---|-----------------|--------------------|
| ηs | 252 % | 192 % |
| Prated | 14.25 kW | 14.10 kW |
| SCOP | 6.50 | 4.99 |
| Tbiv | -18 °C | -17 °C |
| TOL | -22 °C | -22 °C |
| Pdh Tj = -7°C | 12.71 kW | 12.40 kW |
| COP Tj = -7°C | 6.45 | 4.68 |
| Cdh Tj = -7 °C | 0.996 | 0.997 |
| Pdh Tj = +2°C | 12.62 kW | 12.53 kW |
| COP Tj = +2°C | 6.65 | 5.27 |
| Cdh Tj = +2 °C | 0.996 | 0.996 |
| Pdh Tj = +7°C | 12.54 kW | 12.64 kW |
| COP Tj = +7°C | 6.79 | 5.80 |
| Cdh Tj = +7 °C | 0.995 | 0.996 |
| Pdh Tj = 12°C | 12.52 kW | 12.74 kW |
| COP Tj = 12°C | 6.82 | 6.24 |
| Cdh Tj = +12 °C | 0.995 | 0.996 |
| Pdh Tj = Tbiv | 12.75 kW | 12.25 kW |
| COP Tj = Tbiv | 6.23 | 4.22 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 12.76 kW | 12.01 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 6.01 | 3.78 |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 0.996 | 0.997 |
| WTOL | 65 °C | 65 °C |
| Poff | 4 W | 4 W |
| PTO | 8 W | 8 W |
| PSB | 8 W | 8 W |
| PCK | 0 W | 0 W |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 1.49 kW | 2.09 kW |

| | | |
|-------------------------------|----------|----------|
| Annual energy consumption Qhe | 4301 kWh | 6970 kWh |
|-------------------------------|----------|----------|

EN 14825 | Warmer Climate

| | Low temperature | Medium temperature |
|---|-----------------|--------------------|
| η_s | 249 % | 188 % |
| P _{rated} | 13.75 kW | 14.24 kW |
| SCOP | 6.42 | 4.89 |
| T _{biv} | 3 °C | 4 °C |
| TOL | 2 °C | 2 °C |
| P _{dh Tj = +2°C} | 12.76 kW | 12.01 kW |
| COP T _{j = +2°C} | 6.01 | 3.78 |
| C _{dh Tj = +2 °C} | 0.996 | 0.997 |
| P _{dh Tj = +7°C} | 12.73 kW | 12.35 kW |
| COP T _{j = +7°C} | 6.33 | 4.50 |
| C _{dh Tj = +7 °C} | 0.996 | 0.997 |
| P _{dh Tj = 12°C} | 12.59 kW | 12.59 kW |
| COP T _{j = 12°C} | 6.70 | 5.58 |
| C _{dh Tj = +12 °C} | 0.996 | 0.996 |
| P _{dh Tj = T_{biv}} | 12.76 kW | 12.21 kW |
| COP T _{j = T_{biv}} | 6.11 | 4.14 |
| P _{dh Tj = TOL or P_{dh Tj = T_{designh}} if TOL < T_{designh}} | 12.76 kW | 12.01 kW |
| COP T _{j = TOL or COP T_{j = T_{designh}} if TOL < T_{designh}} | 6.01 | 3.78 |
| C _{dh Tj = TOL or P_{dh Tj = T_{designh}} if TOL < T_{designh}} | 0.996 | 0.997 |
| WTOL | 65 °C | 65 °C |
| P _{off} | 4 W | 4 W |
| PTO | 8 W | 8 W |
| PSB | 8 W | 8 W |
| PCK | 0 W | 0 W |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 0.99 kW | 2.23 kW |
| Annual energy consumption Qhe | 2862 kWh | 3890 kWh |

Model Thermia Legend 10 Duo 400V

| | |
|-------------------------------------|--|
| Model name | Thermia Legend 10 Duo 400V |
| Application | Heating (medium temp) |
| Units | Indoor |
| Climate zone (for heating) | Colder, Warmer, Warmer Climate, Colder Climate |
| Cooling mode application (optional) | n/a |
| Any additional heat sources | n/a |

General data

| | |
|------------------|-------------|
| Power supply | 3x400V 50Hz |
| Off-peak product | Yes |

Brine/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 | 9.81 kW | 9.25 kW |
| EI input | 2.06 kW | 3.04 kW |
| COP | 4.76 | 3.05 |

EN 12102-1 | Average Climate

| | Low temperature | Medium temperature |
|--------------------------|-----------------|--------------------|
| Sound power level indoor | 42 dB(A) | 44 dB(A) |

EN 14825 | Average Climate

| | Low temperature | Medium temperature |
|----------------|-----------------|--------------------|
| η_s | 195 % | 145 % |
| Prated | 10.60 kW | 11.77 kW |
| SCOP | 5.09 | 3.84 |
| Tbiv | -8 °C | -5 °C |
| TOL | -10 °C | -10 °C |
| Pdh Tj = -7°C | 9.81 kW | 9.39 kW |
| COP Tj = -7°C | 4.78 | 3.26 |
| Cdh Tj = -7 °C | 0.996 | 0.997 |
| Pdh Tj = +2°C | 10.00 kW | 9.63 kW |
| COP Tj = +2°C | 5.08 | 3.86 |
| Cdh Tj = +2 °C | 0.996 | 0.997 |
| Pdh Tj = +7°C | 10.13 kW | 9.76 kW |
| COP Tj = +7°C | 5.37 | 4.24 |

| | | |
|---|-------------|-------------|
| Cdh Tj = +7 °C | 0.996 | 0.996 |
| Pdh Tj = 12°C | 10.15 kW | 9.88 kW |
| COP Tj = 12°C | 5.62 | 4.69 |
| Cdh Tj = +12 °C | 0.995 | 0.996 |
| Pdh Tj = Tbiv | 9.79 kW | 9.51 kW |
| COP Tj = Tbiv | 4.73 | 3.44 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 9.74 kW | 9.22 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 4.65 | 3.02 |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 0.996 | 0.997 |
| WTOL | 65 °C | 65 °C |
| Poff | 4 W | 4 W |
| PTO | 8 W | 8 W |
| PSB | 8 W | 8 W |
| PCK | 0 W | 0 W |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 0.86 kW | 2.55 kW |
| Annual energy consumption Qhe | 4305 kWh | 6337 kWh |

EN 12102-1 | Colder Climate

| | Low temperature | Medium temperature |
|--------------------------|-----------------|--------------------|
| Sound power level indoor | 42 dB(A) | 44 dB(A) |

EN 14825 | Colder Climate

| | Low temperature | Medium temperature |
|-----------------|-----------------|--------------------|
| ηs | 202 % | 150 % |
| Prated | 11.43 kW | 11.29 kW |
| SCOP | 5.24 | 3.94 |
| Tbiv | -17 °C | -16 °C |
| TOL | -22 °C | -22 °C |
| Pdh Tj = -7°C | 10.06 kW | 9.59 kW |
| COP Tj = -7°C | 5.17 | 3.72 |
| Cdh Tj = -7 °C | 0.996 | 0.997 |
| Pdh Tj = +2°C | 10.13 kW | 9.73 kW |
| COP Tj = +2°C | 5.40 | 4.15 |
| Cdh Tj = +2 °C | 0.996 | 0.996 |
| Pdh Tj = +7°C | 10.15 kW | 9.84 kW |
| COP Tj = +7°C | 5.56 | 4.54 |
| Cdh Tj = +7 °C | 0.995 | 0.996 |
| Pdh Tj = 12°C | 10.15 kW | 9.93 kW |
| COP Tj = 12°C | 5.59 | 4.87 |
| Cdh Tj = +12 °C | 0.995 | 0.996 |
| Pdh Tj = Tbiv | 9.93 kW | 9.50 kW |
| COP Tj = Tbiv | 4.96 | 3.44 |

| | | |
|---|-------------|-------------|
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 9.74 kW | 9.22 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 4.65 | 3.02 |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 0.996 | 0.997 |
| WTOL | 65 °C | 65 °C |
| Poff | 4 W | 4 W |
| PTO | 8 W | 8 W |
| PSB | 8 W | 8 W |
| PCK | 0 W | 0 W |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 1.69 kW | 2.07 kW |
| Annual energy consumption Qhe | 5379 kWh | 7064 kWh |

EN 12102-1 | Warmer Climate

| | Low temperature | Medium temperature |
|--------------------------|-----------------|--------------------|
| Sound power level indoor | 42 dB(A) | 44 dB(A) |

EN 14825 | Warmer Climate

| | Low temperature | Medium temperature |
|---|-----------------|--------------------|
| ηs | 198 % | 147 % |
| Prated | 11.52 kW | 10.99 kW |
| SCOP | 5.15 | 3.87 |
| Tbiv | 4 °C | 4 °C |
| TOL | 2 °C | 2 °C |
| Pdh Tj = +2°C | 9.74 kW | 9.22 kW |
| COP Tj = +2°C | 4.65 | 3.02 |
| Cdh Tj = +2 °C | 0.996 | 0.997 |
| Pdh Tj = +7°C | 9.99 kW | 9.55 kW |
| COP Tj = +7°C | 5.05 | 3.57 |
| Cdh Tj = +7 °C | 0.996 | 0.997 |
| Pdh Tj = 12°C | 10.14 kW | 9.79 kW |
| COP Tj = 12°C | 5.47 | 4.37 |
| Cdh Tj = +12 °C | 0.995 | 0.996 |
| Pdh Tj = Tbiv | 9.87 kW | 9.42 kW |
| COP Tj = Tbiv | 4.88 | 3.31 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 9.74 kW | 9.22 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 4.65 | 3.02 |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 0.996 | 0.997 |
| WTOL | 65 °C | 65 °C |
| Poff | 4 W | 4 W |
| PTO | 8 W | 8 W |

| | | |
|--|-------------|-------------|
| PSB | 8 W | 8 W |
| PCK | 0 W | 0 W |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 1.78 kW | 1.77 kW |
| Annual energy consumption Qhe | 2990 kWh | 3799 kWh |

Water/Water**EN 14511-4 | Heating**

Shutting off the heat transfer medium flow passed

| | |
|-------------------------------|--------|
| Complete power supply failure | passed |
| Starting and operating test | passed |

EN 14511-2 | Heating

| | Low temperature | Medium temperature |
|-------------|-----------------|--------------------|
| Heat output | 12.55 kW | 12.01 kW |
| El input | 2.13 kW | 3.18 kW |
| COP | 5.90 | 3.78 |

EN 14825 | Average Climate

| | Low temperature | Medium temperature |
|---|-----------------|--------------------|
| η_s | 247 % | 186 % |
| Prated | 13.27 kW | 14.46 kW |
| SCOP | 6.38 | 4.85 |
| Tbiv | -9 °C | -6 °C |
| TOL | -10 °C | -10 °C |
| Pdh Tj = -7°C | 12.76 kW | 12.18 kW |
| COP Tj = -7°C | 6.14 | 4.08 |
| Cdh Tj = -7 °C | 0.996 | 0.997 |
| Pdh Tj = +2°C | 12.73 kW | 12.45 kW |
| COP Tj = +2°C | 6.37 | 4.86 |
| Cdh Tj = +2 °C | 0.996 | 0.997 |
| Pdh Tj = +7°C | 12.64 kW | 12.55 kW |
| COP Tj = +7°C | 6.62 | 5.39 |
| Cdh Tj = +7 °C | 0.996 | 0.996 |
| Pdh Tj = 12°C | 12.51 kW | 12.69 kW |
| COP Tj = 12°C | 6.85 | 5.99 |
| Cdh Tj = +12 °C | 0.995 | 0.996 |
| Pdh Tj = Tbiv | 12.76 kW | 12.24 kW |
| COP Tj = Tbiv | 6.05 | 4.20 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 12.76 kW | 12.01 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 6.01 | 3.78 |

| | | |
|---|-------------|-------------|
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 0.996 | 0.997 |
| WTOL | 65 °C | 65 °C |
| Poff | 4 W | 4 W |
| PTO | 8 W | 8 W |
| PSB | 8 W | 8 W |
| PCK | 0 W | 0 W |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 0.51 kW | 2.45 kW |
| Annual energy consumption Qhe | 4301 kWh | 6164 kWh |

EN 14825 | Colder Climate

| | Low temperature | Medium temperature |
|---|-----------------|--------------------|
| ηs | 252 % | 192 % |
| Prated | 14.25 kW | 14.10 kW |
| SCOP | 6.50 | 4.99 |
| Tbiv | -18 °C | -17 °C |
| TOL | -22 °C | -22 °C |
| Pdh Tj = -7°C | 12.71 kW | 12.40 kW |
| COP Tj = -7°C | 6.45 | 4.68 |
| Cdh Tj = -7 °C | 0.996 | 0.997 |
| Pdh Tj = +2°C | 12.62 kW | 12.53 kW |
| COP Tj = +2°C | 6.65 | 5.27 |
| Cdh Tj = +2 °C | 0.996 | 0.996 |
| Pdh Tj = +7°C | 12.54 kW | 12.64 kW |
| COP Tj = +7°C | 6.79 | 5.80 |
| Cdh Tj = +7 °C | 0.995 | 0.996 |
| Pdh Tj = 12°C | 12.52 kW | 12.74 kW |
| COP Tj = 12°C | 6.82 | 6.24 |
| Cdh Tj = +12 °C | 0.995 | 0.996 |
| Pdh Tj = Tbiv | 12.75 kW | 12.25 kW |
| COP Tj = Tbiv | 6.23 | 4.22 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 12.76 kW | 12.01 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 6.01 | 3.78 |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 0.996 | 0.997 |
| WTOL | 65 °C | 65 °C |
| Poff | 4 W | 4 W |
| PTO | 8 W | 8 W |
| PSB | 8 W | 8 W |
| PCK | 0 W | 0 W |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 1.49 kW | 2.09 kW |

| | | |
|-------------------------------|----------|----------|
| Annual energy consumption Qhe | 4301 kWh | 6970 kWh |
|-------------------------------|----------|----------|

EN 14825 | Warmer Climate

| | Low temperature | Medium temperature |
|---|-----------------|--------------------|
| η_s | 249 % | 188 % |
| P _{rated} | 13.75 kW | 14.24 kW |
| SCOP | 6.42 | 4.89 |
| T _{biv} | 3 °C | 4 °C |
| TOL | 2 °C | 2 °C |
| P _{dh Tj = +2°C} | 12.76 kW | 12.01 kW |
| COP T _{j = +2°C} | 6.01 | 3.78 |
| C _{dh Tj = +2 °C} | 0.996 | 0.997 |
| P _{dh Tj = +7°C} | 12.73 kW | 12.35 kW |
| COP T _{j = +7°C} | 6.33 | 4.50 |
| C _{dh Tj = +7 °C} | 0.996 | 0.997 |
| P _{dh Tj = 12°C} | 12.59 kW | 12.59 kW |
| COP T _{j = 12°C} | 6.70 | 5.58 |
| C _{dh Tj = +12 °C} | 0.996 | 0.996 |
| P _{dh Tj = T_{biv}} | 12.76 kW | 12.21 kW |
| COP T _{j = T_{biv}} | 6.11 | 4.14 |
| P _{dh Tj = TOL or P_{dh Tj = T_{designh}} if TOL < T_{designh}} | 12.76 kW | 12.01 kW |
| COP T _{j = TOL or COP T_{j = T_{designh}} if TOL < T_{designh}} | 6.01 | 3.78 |
| C _{dh Tj = TOL or P_{dh Tj = T_{designh}} if TOL < T_{designh}} | 0.996 | 0.997 |
| WTOL | 65 °C | 65 °C |
| P _{off} | 4 W | 4 W |
| PTO | 8 W | 8 W |
| PSB | 8 W | 8 W |
| PCK | 0 W | 0 W |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 0.99 kW | 2.23 kW |
| Annual energy consumption Qhe | 2862 kWh | 3890 kWh |