Information for heat pump space heaters and heat pump combination heaters Warm climate and Medium temperature



| Warm climate and Medium | temperature | | | | Ljungby | | <u> </u> |
|---|--------------------|----------------------|---|---|----------------------|-------------------|-------------|
| Model(s): | | CTC EcoPart 41 | 2 + CTC EcoLo | gic | | | |
| Air-to-water heat pump: | | No | | Energy efficiency class: | | - | |
| Water-to-water heat pump: | | No | | Controller class: | VII | - | |
| Brine-to-water heat pump: | | Yes | | Controller contribution: | 3,5 | % | |
| Low-temperature heat pump: | | No | | Package efficiency: | 141 | % | |
| Equipped with a supplementary | / heater: | No | | Package efficiency class: | | - | |
| Heat pump combination heater | | No | | | | | |
| | | | ion, except for | r low-temperature heat pumps. For | low- tempera | ture heat pu | mps, |
| parameters shall be declared fo | - | | 11 | | Gunshal | Malua | 11 |
| Item | Symbol | Value | Unit | Item Seasonal space heating energy | Symbol | Value | Unit |
| Rated heat output (*) | Prated | 12 | kW | efficiency | η _s | 137 | % |
| Declared capacity for heating for outdoor temperature T j | or part load at in | door temperatu | re 20 °C and | Declared coefficient of performation part load at indoor temperature | | | |
| T j = – 7 °C | Pdh | na | kW | T j = − 7 °C | COPd | na |] - [|
| T j = + 2 °C | Pdh | 13,6 | kW | T j = +2 °C | COPd | 3,08 |] - |
| T j = + 7 °C | Pdh | 11,1 | kW | T j = +7 °C | COPd | 3,45 | - [|
| T j = + 12 °C | Pdh | 11,5 | kW | T j = +12 °C | COPd | 4,14 | - 1 |
| T j = bivalent temperature | Pdh | 11 | kW | T j = bivalent temperature | COPd | 3,18 | - |
| T j = operation limit temperature | Pdh | na | kW | T j = operation limit temperature | COPd | na | - 1 |
| · For air-to-water heat pumps: T j = − 15 °C (if TOL < − 20 °C) | Pdh | na | kW | For air-to-water heat pumps: T j = – 15 °C (if TOL < – 20 °C) | COPd | na | - |
| Bivalent temperature | T _{biv} | 3 | °C | For air-to-water heat pumps: Operation limit temperature | TOL | na | °C |
| Cycling interval capacity for heating | P _{cych} | na | kW | Cycling interval efficiency | СОРсус | na |] - |
| Degradation co-efficient | Cdh | 0,99 | - | Heating water operating limit temperature | WTOL | 65 | °C |
| Power consumption in modes o | other than active | mode | | Supplementary heater | | | |
| Off mode | P _{OFF} | 0,018 | kW | Rated heat output | Psup | 0,5 | kW |
| Thermostat-off mode | Р _{то} | 0,005 | kW | | | | |
| Standby mode | P _{SB} | 0,018 | kW | Type of energy input | | Electric | |
| Crankcase heater mode | Р _{СК} | 0,000 | kW | | | | |
| Other items | | | | | | | _ |
| Capacity control | | Fixed | | For air-to-water heat pumps: Rated air flow rate, outdoors | - | na | m3/h |
| Sound power level, indoors/ outdoors | L _{WA} | 50/na | dB | For water-/brine-to-water heat pumps: Rated brine or water | | | |
| Annual energy consumption | Q _{HE} | 4364 | kWh | flow rate, outdoor heat exchanger | - | 2,1 | m3/h |
| For heat pump combination hea | ater: | | | | | | |
| Declared load profile | | na | | Water heating energy efficiency | η_{wh} | na | % |
| Daily electricity consumption | Qelec | na | kWh | Daily fuel consumption | Qfuel | na | kWh |
| Annual electricity consumption | AEC | na | kWh | Annual fuel consumption | AFC | na | GJ |
| Specific precautions and end of life information: | | end of the product' | s life cycle, it mus product's refrige | a recycling station or with the installation engi t be sent correctly to a waste station or reselle rant, compressor oil and electrical/electronic not nermitted | er offering a servic | e of that type. t | is of great |
| | | or the product as ho | JUSEDUID WASTE IS | | | | |

Information for heat pump space heaters and heat pump combination heaters Warm climate and Low temperature



| Warm climate and Low tem | perature | | | | Ljungby | | |
|--|------------------------|--|---|--|----------------------|-------------------|-------------|
| Model(s): | | CTC EcoPart 41 | 2 + CTC EcoLo | gic | | | |
| Air-to-water heat pump: | | No | | Energy efficiency class: | | - | |
| Water-to-water heat pump: | | No | | Controller class: | VII | - | |
| Brine-to-water heat pump: | | Yes | | Controller contribution: | 3,5 | % | |
| Low-temperature heat pump: | | No | | Package efficiency: | 184 | % | |
| Equipped with a supplementary | heater: | No | | Package efficiency class: | | - | |
| Heat pump combination heater | | No | | | | | |
| | | | ion, except fo | r low-temperature heat pumps. For | low- tempera | ture heat pu | mps, |
| parameters shall be declared fo | | | Unit | lton | Symbol | Value | Unit |
| Item | Symbol | Value | | Item Seasonal space heating energy | Symbol | value | Unit |
| Rated heat output (*) | Prated | 13 | kW | efficiency | η _s | 180 | % |
| Declared capacity for heating fo outdoor temperature T j | r part load at in | door temperatu | re 20 °C and | Declared coefficient of performation part load at indoor temperature | | | |
| T j = − 7 °C | Pdh | na | kW | T i = − 7 °C | COPd | na |] - |
| T j = + 2 °C | Pdh | 11,8 | kW | T j = +2 °C | COPd | 4,60 | 1. |
| Г ј = + 7 °С | Pdh | 11,9 | kW | T j = +7 °C | COPd | 4,83 |] - |
| T j = + 12 °C | Pdh | 12,0 | kW | T j = +12 °C | COPd | 5,11 | - |
| T j = bivalent temperature | Pdh | 11,8 | kW | T j = bivalent temperature | COPd | 4,68 |] - |
| T j = operation limit temperature | Pdh | na | kW | T j = operation limit temperature | COPd | na | - |
| For air-to-water heat pumps: T j = – 15 °C (if TOL < – 20 °C) | Pdh | na | kW | For air-to-water heat pumps: T j = – 15 °C (if TOL < – 20 °C) | COPd | na | - |
| Bivalent temperature | T _{biv} | 3 | °C | For air-to-water heat pumps: Operation limit temperature | TOL | na | °C |
| Cycling interval capacity for heating | P _{cych} | na | kW | Cycling interval efficiency | СОРсус | na | - 1 |
| Degradation co-efficient | Cdh | 0,98 | - | Heating water operating limit temperature | WTOL | 65 | °C |
| Power consumption in modes o | ther than active | mode | | Supplementary heater | | | |
| Off mode | P _{OFF} | 0,018 | kW | Rated heat output | Psup | 0,9 | kW |
| Thermostat-off mode | Р _{то} | 0,022 | kW | | | | |
| Standby mode | P _{SB} | 0,018 | kW | Type of energy input | | Electric | |
| Crankcase heater mode | Р _{ск} | 0,000 | kW | | | | |
| Other items | | | · | | <u>,</u> | | _ |
| Capacity control | | Fixed | | For air-to-water heat pumps: Rated air flow rate, outdoors | - | na | m3/h |
| L Sound power level, indoors/ outdoors | L _{WA} | 50/na | dB | For water-/brine-to-water heat pumps: Rated brine or water | | | |
| Annual energy consumption | Q _{HE} | 3618 | kWh | flow rate, outdoor heat exchanger | - | 2,6 | m3/h |
| For heat pump combination hea | ater: | | | | | | |
| Declared load profile | | na | | Water heating energy efficiency | η_{wh} | na | % |
| Daily electricity consumption | Qelec | na | kWh | Daily fuel consumption | Qfuel | na | kWh |
| Annual electricity consumption | AEC | na | kWh | Annual fuel consumption | AFC | na | GJ |
| Specific precautions and end of life information: | | end of the product' importance that the | s life cycle, it mus e product's refrige | a recycling station or with the installation enging to be sent correctly to a waste station or reselled rant, compressor oil and electrical/electronic pat pagnitud | er offering a servic | e of that type. t | is of great |
| Contact details (| | of the product as he n 8, SE-341 34 Lj | | | | | 231218 |

Information for heat pump space heaters and heat pump combination heaters Average climate and Medium temperature



| Average climate and Mediu | um temperatur | e | | | Ljungby | | |
|--|--------------------|--------------------|--|---|----------------------|-------------------|-------------|
| Model(s): | | CTC EcoPart 41 | 2 + CTC EcoLo | gic | | | |
| Air-to-water heat pump: | | No | | Energy efficiency class: | A++ | - | |
| Water-to-water heat pump: | | No | | Controller class: | VII | - | |
| Brine-to-water heat pump: | | Yes | | Controller contribution: | 3,5 | % | |
| Low-temperature heat pump: | | No | | Package efficiency: | 142 | % | |
| Equipped with a supplementar | y heater: | No | | Package efficiency class: | A++ | - | |
| Heat pump combination heate | | No | | | | | |
| | | | ion, except for | r low-temperature heat pumps. For | low- tempera | ture heat pu | mps, |
| parameters shall be declared for | | | | | | | |
| Item | Symbol | Value | Unit | Item | Symbol | Value | Unit |
| Rated heat output (*) | Prated | 12 | kW | Seasonal space heating energy efficiency | η _s | 138 | % |
| Declared capacity for heating f outdoor temperature T j | or part load at in | door temperatu | re 20 °C and | Declared coefficient of perform part load at indoor temperature | | | |
| T j = – 7 °C | Pdh | 11 | kW | T j = − 7 °C | COPd | 3,25 |] - [|
| т ј = + 2 °С | Pdh | 11,2 | kW | T j = +2 °C | COPd | 3,64 |] - |
| T j = + 7 °C | Pdh | 11,4 | kW | T j = +7 °C | COPd | 4,02 | - |
| T j = + 12 °C | Pdh | 11,6 | kW | T j = +12 °C | COPd | 4,40 | - |
| T j = bivalent temperature | Pdh | 11 | kW | T j = bivalent temperature | COPd | 3,25 | - |
| T j = operation limit temperature | Pdh | na | kW | T j = operation limit temperature | COPd | na | - |
| For air-to-water heat pumps: T j = – 15 °C (if TOL < – 20 °C) | Pdh | na | kW | For air-to-water heat pumps: T j = -15 °C (if TOL < -20 °C) | COPd | na | - |
| Bivalent temperature | T _{biv} | -7 | °C | For air-to-water heat pumps: Operation limit temperature | TOL | na | °C |
| Cycling interval capacity for heating | P _{cych} | na | kW | Cycling interval efficiency | СОРсус | na | - |
| Degradation co-efficient | Cdh | 0,99 | - | Heating water operating limit temperature | WTOL | 65 | °C |
| Power consumption in modes | other than active | mode | | Supplementary heater | | | |
| Off mode | P _{OFF} | 0,018 | kW | Rated heat output | Psup | 1,5 | kW |
| Thermostat-off mode | P _{TO} | 0,005 | kW | | | | |
| Standby mode | P _{SB} | 0,018 | kW | Type of energy input | | Electric | |
| Crankcase heater mode | Р _{СК} | 0,000 | kW | | | | |
| Other items | | -, | • | | | | |
| Capacity control | | Fixed | | For air-to-water heat pumps: Rated air flow rate, outdoors | - | na | m3/h |
| Sound power level, indoors/ outdoors | L _{WA} | 50/na | dB | For water-/brine-to-water heat pumps: Rated brine or water | | | |
| Annual energy consumption | Q _{HE} | 7084 | kWh | flow rate, outdoor heat exchanger | - | 2,1 | m3/h |
| For heat pump combination he | eater: | | | · · · · · · · · · · · · · · · · · · · | | <u> </u> | - |
| Declared load profile | | na | 1 | Water heating energy efficiency | η_{wh} | na | % |
| Daily electricity consumption | Qelec | na | kWh | Daily fuel consumption | Qfuel | na | kWh |
| Annual electricity consumption | AEC | na | kWh | Annual fuel consumption | AFC | na | GJ |
| Specific precautions and end of life information: | | end of the product | 's life cycle, it mus e product's refrige | a recycling station or with the installation eng t be sent correctly to a waste station or resell rant, compressor oil and electrical/electronic not nermitted | er offering a servic | e of that type. t | is of great |
| Contact details | CTC AB, Näsväge | | | | | | 231218 |
| | 2. 2. 2) Hastage | | | | | | |

Information for heat pump space heaters and heat pump combination heaters Average climate and Low temperature



| Average climate and Low te | mperature | | | | Ljungby | | |
|---|--------------------|---|--|--|---|--------------------------------------|------------------------|
| Model(s): | | CTC EcoPart 41 | L2 + CTC EcoLo | ogic | | | |
| Air-to-water heat pump: | | No | | Energy efficiency class: | A+++ | - | |
| Water-to-water heat pump: | | No | | Controller class: | VII | - | |
| Brine-to-water heat pump: | | Yes | | Controller contribution: | 3,5 | % | |
| Low-temperature heat pump: | | No | | Package efficiency: | 186 | % | |
| Equipped with a supplementar | y heater: | No | | Package efficiency class: | A+++ | - | |
| Heat pump combination heater | | No | | | | | |
| | | | ion, except for | r low-temperature heat pumps. For | low- tempera | nture heat pu | ımps, |
| parameters shall be declared for | - | | | | | | |
| Item | Symbol | Value | Unit | Item | Symbol | Value | Unit |
| Rated heat output (*) | Prated | 13 | kW | Seasonal space heating energy efficiency | η _s | 182 | % |
| Declared capacity for heating for outdoor temperature T j | or part load at ir | idoor temperatu | re 20 °C and | Declared coefficient of performation part load at indoor temperature | • | | |
| T j = – 7 °C | Pdh | 11,8 | kW | T j = − 7 °C | COPd | 4,69 |] - |
| T j = + 2 °C | Pdh | 11,9 | kW | T j = +2 °C | COPd | 4,88 | - [|
| T j = + 7 °C | Pdh | 12,0 | kW | T j = +7 °C | COPd | 5,06 | - |
| T j = + 12 °C | Pdh | 12,1 | kW | T j = +12 °C | COPd | 5,23 | - |
| T j = bivalent temperature | Pdh | 11,8 | kW | T j = bivalent temperature | COPd | 4,69 | - |
| T j = operation limit temperature | Pdh | na | kW | T j = operation limit temperature | COPd | na | - |
| For air-to-water heat pumps: T j = – 15 °C (if TOL < – 20 °C) | Pdh | na | kW | For air-to-water heat pumps: T j = – 15 °C (if TOL < – 20 °C) | COPd | na | - |
| Bivalent temperature | T _{biv} | -7 | °C | For air-to-water heat pumps: Operation limit temperature | TOL | na | °C |
| Cycling interval capacity for neating | P _{cych} | na | kW | Cycling interval efficiency | СОРсус | na | - 1 |
| Degradation co-efficient | Cdh | 0,98 | - | Heating water operating limit temperature | WTOL | 65 | °C |
| Power consumption in modes of | other than active | mode | - | Supplementary heater | | | - |
| Off mode | P _{OFF} | 0,018 | kW | Rated heat output | Psup | 1,6 | kW |
| Thermostat-off mode | Р _{то} | 0,022 | kW | | | | |
| Standby mode | P _{SB} | 0,018 | kW | Type of energy input | | Electric | |
| Crankcase heater mode | Р _{СК} | 0,000 | kW | | | | |
| Other items | | | | | | | |
| Capacity control | | Fixed | | For air-to-water heat pumps: Rated air flow rate, outdoors | - | na | m3/l |
| L Sound power level, indoors/ outdoors | L _{WA} | 50/na | dB | For water-/brine-to-water heat pumps: Rated brine or water | | | |
| Annual energy consumption | Q _{HE} | 5814 | kWh | flow rate, outdoor heat exchanger | - | 2,6 | m3/l |
| For heat pump combination he | ater: | | | | | | _ |
| Declared load profile | | na | | Water heating energy efficiency | η_{wh} | na | % |
| Daily electricity consumption | Qelec | na | kWh | Daily fuel consumption | Qfuel | na | kWł |
| Annual electricity consumption | AEC | na | kWh | Annual fuel consumption | AFC | na | GJ |
| consumption Specific precautions and end of life information: | | The packaging mus end of the product | t be deposited at a 's life cycle, it mus' e product's refrige | a recycling station or with the installation engi t be sent correctly to a waste station or reselle rant, compressor oil and electrical/electronic | neer for correct we er offering a servio | vaste manageme ce of that type. t | nt. At th is of gre |

Information for heat pump space heaters and heat pump combination heaters **Cold climate and Medium temperature**



| Model(s): Air-to-water heat pump: Water-to-water heat pump: | | CTC EcoPart 41 | 12 + CTC EcoLo | - | | | |
|---|------------------------|--------------------|--|--|----------------------|-------------------|------------|
| Water-to-water heat pump: | | No | | | | | |
| · · · | | NO | | Energy efficiency class: | | - | |
| | | No | | Controller class: | VII | - | |
| Brine-to-water heat pump: | | Yes | | Controller contribution: | 3,5 | % | |
| Low-temperature heat pump: | | No | | Package efficiency: | 145 | % | |
| Equipped with a supplementary | heater: | No | | Package efficiency class: | | - | |
| Heat pump combination heater | : | No | | | | | |
| | | | tion, except fo | r low-temperature heat pumps. For | low- tempera | ture heat pu | mps, |
| parameters shall be declared fo | - | | | | | | |
| Item | Symbol | Value | Unit | Item | Symbol | Value | Unit |
| Rated heat output (*) | Prated | 12 | kW | Seasonal space heating energy efficiency | η _s | 141 | % |
| Declared capacity for heating fo outdoor temperature T j | or part load at in | door temperatu | ire 20 °C and | Declared coefficient of performa part load at indoor temperature | | | |
| Г ј = — 7 °С | Pdh | 11,2 | kW | T j = − 7 °C | COPd | 3,56 |] - |
| Г ј = + 2 °С | Pdh | 11,4 | kW | T j = +2 °C | COPd | 3,94 | 1 - |
| г ј = + 7 °С | Pdh | 11,6 | kW | T j = +7 °C | COPd | 4,29 |] - |
| j = + 12 °C | Pdh | 11,7 | kW | T j = +12 °C | COPd | 4,54 |] - |
| ī j = bivalent temperature | Pdh | 11 | kW | T j = bivalent temperature | COPd | 3,25 | - [|
| T j = operation limit temperature | Pdh | na | kW | T j = operation limit temperature | COPd | na |] - |
| For air-to-water heat pumps: Γ j = – 15 °C (if TOL < – 20 °C) | Pdh | na | kW | For air-to-water heat pumps: T j = – 15 °C (if TOL < – 20 °C) | COPd | na | - |
| Bivalent temperature | T _{biv} | -18 | °C | For air-to-water heat pumps: Operation limit temperature | TOL | na | °C |
| Cycling interval capacity for neating | P _{cych} | na | kW | Cycling interval efficiency | СОРсус | na | - |
| Degradation co-efficient | Cdh | 0,99 | - | Heating water operating limit temperature | WTOL | 65 | °C |
| Power consumption in modes o | ther than active | mode | | Supplementary heater | | | |
| Off mode | P _{OFF} | 0,018 | kW | Rated heat output | Psup | 1,4 | kW |
| hermostat-off mode | Р _{то} | 0,005 | kW | | | | |
| itandby mode | P _{SB} | 0,018 | kW | Type of energy input | | Electric | |
| Crankcase heater mode | Р _{ск} | 0,000 | kW | | | | |
| Other items | | , | | | | | |
| Capacity control | | Fixed | | For air-to-water heat pumps: Rated air flow rate, outdoors | - | na | m3/ |
| L Sound power level, indoors/ putdoors | L _{WA} | 50/na | dB | For water-/brine-to-water heat pumps: Rated brine or water | | | |
| Annual energy consumption | Q _{HE} | 8195 | kWh | flow rate, outdoor heat exchanger | - | 2,1 | m3/I |
| or heat pump combination hea | ater: | • | | | | | <u> </u> |
| Declared load profile | | na | | Water heating energy efficiency | η_{wh} | na | % |
| Daily electricity consumption | Qelec | na | kWh | Daily fuel consumption | Qfuel | na | kWł |
| Annual electricity consumption | AEC | na | kWh | Annual fuel consumption | AFC | na | GJ |
| Specific precautions and end of life information: | | end of the product | 's life cycle, it mus e product's refrige | a recycling station or with the installation engine t be sent correctly to a waste station or reselle rrant, compressor oil and electrical/electronic pat pormitted | er offering a servic | e of that type. t | is of grea |

Information for heat pump space heaters and heat pump combination heaters **Cold climate and Low temperature**



| Cold climate and Low tempe | erature | | | | Ljungby | | |
|--|--------------------|--|-----------------------|---|-----------------------|---------------------|------------|
| Model(s): | | CTC EcoPart 41 | 2 + CTC EcoLo | gic | | | |
| Air-to-water heat pump: | | No | | Energy efficiency class: | | - | |
| Water-to-water heat pump: | | No | | Controller class: | VII | - | |
| Brine-to-water heat pump: | | Yes | | Controller contribution: | 3,5 | % | |
| Low-temperature heat pump: | | No | | Package efficiency: | 189 | % | |
| Equipped with a supplementary | y heater: | No | | Package efficiency class: | | - | |
| Heat pump combination heater | | No | | | | | |
| | | | ion, except for | r low-temperature heat pumps. For | low- tempera | ture heat pu | mps, |
| parameters shall be declared for | • | | Unit | lt | C. mahal | Value | 11 |
| Item | Symbol | Value | Unit | Item Seasonal space heating energy | Symbol | Value | Unit |
| Rated heat output (*) | Prated | 12 | kW | efficiency | η _s | 185 | % |
| Declared capacity for heating for outdoor temperature T j | or part load at in | door temperatu | re 20 °C and | Declared coefficient of perform part load at indoor temperature | | | |
| T j = − 7 °C | Pdh | 11,9 | kW | T j = − 7 °C | COPd | 4,89 |] - |
| T j = + 2 °C | Pdh | 12,0 | kW | T j = +2 °C | COPd | 5,06 |] - |
| T j = + 7 °C | Pdh | 12,1 | kW | T j = +7 °C | COPd | 5,18 | - |
| T j = + 12 °C | Pdh | 12,1 | kW | T j = +12 °C | COPd | 5,20 | - |
| T j = bivalent temperature | Pdh | 11,8 | kW | T j = bivalent temperature | COPd | 4,66 | - |
| T j = operation limit temperature | Pdh | na | kW | T j = operation limit temperature | COPd | na | - |
| For air-to-water heat pumps: T j = – 15 °C (if TOL < – 20 °C) | Pdh | na | kW | For air-to-water heat pumps: T j = - 15 °C (if TOL < - 20 °C) | COPd | na | - |
| Bivalent temperature | T _{biv} | -20 | °C | For air-to-water heat pumps: Operation limit temperature | TOL | na | °C |
| Cycling interval capacity for heating | P _{cych} | na | kW | Cycling interval efficiency | СОРсус | na |] - |
| Degradation co-efficient | Cdh | 0,98 | - | Heating water operating limit temperature | WTOL | 65 | °C |
| Power consumption in modes c | other than active | mode | - | Supplementary heater | | | - |
| Off mode | P _{OFF} | 0,018 | kW | Rated heat output | Psup | 0,7 | kW |
| Thermostat-off mode | Р _{то} | 0,022 | kW | | | | |
| Standby mode | P _{SB} | 0,018 | kW | Type of energy input | | Electric | |
| Crankcase heater mode | Р _{СК} | 0,000 | kW | | | | |
| Other items | | | | | | | - |
| Capacity control | | Fixed | | For air-to-water heat pumps: Rated air flow rate, outdoors | - | na | m3/h |
| L Sound power level, indoors/ outdoors | L _{WA} | 50/na | dB | For water-/brine-to-water heat pumps: Rated brine or water | | | |
| Annual energy consumption | Q _{HE} | 6373 | kWh | flow rate, outdoor heat exchanger | - | 2,6 | m3/h |
| For heat pump combination he | ater: | | | | | | |
| Declared load profile | | na | | Water heating energy efficiency | η_{wh} | na | % |
| Daily electricity consumption | Qelec | na | kWh | Daily fuel consumption | Qfuel | na | kWh |
| Annual electricity consumption | AEC | na | kWh | Annual fuel consumption | AFC | na | GJ |
| Specific precautions and end of life information: | | end of the product's importance that the | s life cycle, it must | a recycling station or with the installation enging t be sent correctly to a waste station or reselled rant, compressor oil and electrical/electronic | er offering a service | e of that type. t i | s of great |
| | | of the product as ho | unahal-l | not normalitied | | | |

Information for heat pump space heaters and heat pump combination heaters Warm climate and Medium temperature



| Warm climate and Medium | temperature | | | | Ljungby | | |
|--|------------------------|--------------------|-----------------------|--|----------------------|-------------------|------------|
| Model(s): | | CTC EcoPart 41 | L2 + CTC EcoZe | enith i360/ i360F | | | |
| Air-to-water heat pump: | | No | | Energy efficiency class: | | - | |
| Water-to-water heat pump: | | No | | Controller class: | VII | - | |
| Brine-to-water heat pump: | | Yes | | Controller contribution: | 3,5 | % | |
| Low-temperature heat pump: | | No | | Package efficiency: | 141 | % | |
| Equipped with a supplementar | y heater: | Yes | | Package efficiency class: | | - | |
| Heat pump combination heate | r: | Yes | | | | | |
| | | | tion, except for | r low-temperature heat pumps. For | low- tempera | ture heat pu | mps, |
| parameters shall be declared for | | | | | | | |
| Item | Symbol | Value | Unit | Item | Symbol | Value | Unit |
| Rated heat output (*) | Prated | 12 | kW | Seasonal space heating energy efficiency | n _s | 137 | % |
| Declared capacity for heating for heating for the second sec | or part load at in | door temperatu | re 20 °C and | Declared coefficient of performation part load at indoor temperature | | | |
| 「j=−7 °C | Pdh | na | kW | T j = − 7 °C | COPd | na |] - |
| Г ј = + 2 °С | Pdh | 13,6 | kW | T j = +2 °C | COPd | 3,08 | 1. |
| г ј = + 7 °С | Pdh | 11,1 | kW | T j = +7 °C | COPd | 3,45 |] - |
| Г ј = + 12 °С | Pdh | 11,5 | kW | T j = +12 °C | COPd | 4,14 |] - |
| Г ј = bivalent temperature | Pdh | 11 | kW | T j = bivalent temperature | COPd | 3,18 | - [|
| Γ j = operation limit | Pdh | | kW | T j = operation limit | COPd | | 1 |
| temperature | Pull | na | ĸvv | temperature | COPa | na | 1 |
| For air-to-water heat pumps: Γ j = − 15 °C (if TOL < − 20 °C) | Pdh | na | kW | For air-to-water heat pumps: T j = – 15 °C (if TOL < – 20 °C) | COPd | na | - |
| Bivalent temperature | T _{biv} | 3 | °C | For air-to-water heat pumps: Operation limit temperature | TOL | na | °C |
| Cycling interval capacity for neating | P _{cych} | na | kW | Cycling interval efficiency | СОРсус | na | - |
| Degradation co-efficient | Cdh | 0,99 | - | Heating water operating limit temperature | WTOL | 65 | °C |
| Power consumption in modes of | other than active | mode | _ | Supplementary heater | | | |
| Off mode | P _{OFF} | 0,018 | kW | Rated heat output | Psup | 0,5 | kW |
| Thermostat-off mode | Р _{то} | 0,005 | kW | | | | |
| Standby mode | P _{SB} | 0,018 | kW | Type of energy input | | Electric | |
| Crankcase heater mode | Р _{ск} | 0,000 | kW | | | | |
| Other items | | · · · | ! | | • | | |
| Capacity control | | Fixed | | For air-to-water heat pumps: Rated air flow rate, outdoors | - | na | m3/ |
| Sound power level, indoors/ | L _{WA} | 50/na | dB | For water-/brine-to-water heat pumps: Rated brine or water | | | |
| Annual energy consumption | Q _{HE} | 4364 | kWh | flow rate, outdoor heat exchanger | - | 2,1 | m3/ |
| For heat pump combination he | ater: | • | | , , , , , , , , , , , , , , , , , , , | | | • |
| Declared load profile/ | | XL/A | | Water heating energy | n | 100 | 0/ |
| nergy efficiency class | | AL / A | | efficiency | η_{wh} | 100 | % |
| Daily electricity consumption | Qelec | 7,619 | kWh | Daily fuel consumption | Qfuel | na | kW |
| Annual electricity consumption | AEC | 1676 | kWh | Annual fuel consumption | AFC | na | GJ |
| Specific precautions and end of life information: | | end of the product | 's life cycle, it mus | a recycling station or with the installation engi t be sent correctly to a waste station or reselle rant, compressor oil and electrical/electronic | er offering a servic | e of that type. t | is of grea |

Information for heat pump space heaters and heat pump combination heaters



| Warm climate and Low tem | perature | | | | Ljungby | | |
|--|--------------------|--|---|--|----------------------|-------------------|------------|
| Model(s): | | CTC EcoPart 41 | 2 + CTC EcoZe | enith i360/ i360F | | | |
| Air-to-water heat pump: | | No | | Energy efficiency class: | | - | |
| Water-to-water heat pump: | | No | | Controller class: | VII | - | |
| Brine-to-water heat pump: | | Yes | | Controller contribution: | 3,5 | % | |
| Low-temperature heat pump: | | No | | Package efficiency: | 184 | % | |
| Equipped with a supplementary | heater: | Yes | | Package efficiency class: | | - | |
| Heat pump combination heater | | Yes | | | | | |
| | | | ion, except fo | r low-temperature heat pumps. For | low- tempera | ture heat pu | mps, |
| parameters shall be declared fo | | | 11 | lton | Sumbol | Value | ا ما |
| Item | Symbol | Value | Unit | Item Seasonal space heating energy | Symbol | Value | Uni |
| Rated heat output (*) | Prated | 13 | kW | efficiency | η _s | 180 | % |
| Declared capacity for heating fo outdoor temperature T j | or part load at in | idoor temperatu | re 20 °C and | Declared coefficient of perform part load at indoor temperature | | | |
| Γ j = − 7 °C | Pdh | na | kW | T j = - 7 °C | COPd | na |] - |
| ∫ j = + 2 °C | Pdh | 11,8 | kW | T j = +2 °C | COPd | 4,60 | 1 - |
| г ј = + 7 °С | Pdh | 11,9 | kW | T j = +7 °C | COPd | 4,83 |] - |
| Г ј = + 12 °С | Pdh | 12,0 | kW | T j = +12 °C | COPd | 5,11 |] - |
| Γ j = bivalent temperature | Pdh | 11,8 | kW | T j = bivalent temperature | COPd | 4,68 | - |
| i = operation limit | Pdh | na | kW | T j = operation limit | COPd | na | 1. |
| emperature | run | lid | KVV | temperature | COFU | na | |
| For air-to-water heat pumps: T j = – 15 °C (if TOL < – 20 °C) | Pdh | na | kW | For air-to-water heat pumps: T j = - 15 °C (if TOL < - 20 °C) | COPd | na | - |
| Bivalent temperature | T _{biv} | 3 | °C | For air-to-water heat pumps: Operation limit temperature | TOL | na | °C |
| Cycling interval capacity for neating | P _{cych} | na | kW | Cycling interval efficiency | СОРсус | na | - |
| Degradation co-efficient | Cdh | 0,98 | - | Heating water operating limit temperature | WTOL | 65 | °C |
| ower consumption in modes o | ther than active | e mode | | Supplementary heater | | | |
| Off mode | P _{OFF} | 0,018 | kW | Rated heat output | Psup | 0,9 | kW |
| hermostat-off mode | Р _{то} | 0,022 | kW | | | | |
| Standby mode | P _{SB} | 0,018 | kW | Type of energy input | | Electric | |
| Crankcase heater mode | Р _{СК} | 0,000 | kW | | | | |
| Other items | | -, | | | | | |
| Capacity control | | Fixed | | For air-to-water heat pumps: Rated air flow rate, outdoors | - | na | m3/ |
| L Sound power level, indoors/ putdoors | L _{WA} | 50/na | dB | For water-/brine-to-water heat pumps: Rated brine or water | | | |
| Annual energy consumption | Q _{HE} | 3618 | kWh | flow rate, outdoor heat exchanger | - | 2,6 | m3/ |
| or heat pump combination hea | ater: | | | | | | |
| Declared load profile/ | | XL/A | | Water heating energy | η _{wh} | 100 | % |
| nergy efficiency class | | | | efficiency | • IWN | | |
| Daily electricity consumption | Qelec | 7,619 | kWh | Daily fuel consumption | Qfuel | na | kWl |
| Annual electricity consumption | AEC | 1676 | kWh | Annual fuel consumption | AFC | na | GJ |
| Specific precautions and end of life information: | | end of the product' importance that the | s life cycle, it mus e product's refrige | a recycling station or with the installation engi t be sent correctly to a waste station or resell- erant, compressor oil and electrical/electronic not permitted | er offering a servic | e of that type. t | is of grea |
| Contact details (| | of the product as he of 8, SE-341 34 Lj | | | | | 23121 |

Information for heat pump space heaters and heat pump combination heaters Average climate and Medium temperature



| Average climate and Mediu | m temperatur | e | | | Ljungby | | |
|--|--------------------|--------------------|----------------------|---|----------------------|-------------------|----------------|
| Model(s): | | CTC EcoPart 41 | 2 + CTC EcoZe | enith i360/ i360F | | | |
| Air-to-water heat pump: | | No | | Energy efficiency class: | A++ | - | |
| Water-to-water heat pump: | | No | | Controller class: | VII | - | |
| Brine-to-water heat pump: | | Yes | | Controller contribution: | 3,5 | % | |
| ow-temperature heat pump: | | No | | Package efficiency: | 142 | % | |
| Equipped with a supplementar | y heater: | Yes | | Package efficiency class: | A++ | - | |
| Heat pump combination heate | r: | Yes | | | | | |
| | | | ion, except for | r low-temperature heat pumps. For | low- tempera | ture heat pu | imps, |
| parameters shall be declared for | | | | | | | |
| tem | Symbol | Value | Unit | Item | Symbol | Value | Uni |
| Rated heat output (*) | Prated | 12 | kW | Seasonal space heating energy efficiency | η _s | 138 | % |
| Declared capacity for heating for beating for beating for the second sec | or part load at in | door temperatu | re 20 °C and | Declared coefficient of perform part load at indoor temperature | | | |
| Г ј = — 7 °С | Pdh | 11 | kW | T j = − 7 °C | COPd | 3,25 |] - |
| гј = + 2 °С | Pdh | 11,2 | kW | T j = +2 °C | COPd | 3,64 | 1. |
| г ј = + 7 °С | Pdh | 11,4 | kW | T j = +7 °C | COPd | 4,02 |] - |
| Г ј = + 12 °С | Pdh | 11,6 | kW | T j = +12 °C | COPd | 4,40 | 1 - |
| ī j = bivalent temperature | Pdh | 11 | kW | T j = bivalent temperature | COPd | 3,25 | 1 - |
| Γ j = operation limit | 0.46 | | 1.1.4.4 | T j = operation limit | | | 1 |
| emperature | Pdh | na | kW | temperature | COPd | na | 1 ⁻ |
| For air-to-water heat pumps: T j = – 15 °C (if TOL < – 20 °C) | Pdh | na | kW | For air-to-water heat pumps: T j = – 15 °C (if TOL < – 20 °C) | COPd | na | - |
| Bivalent temperature | T _{biv} | -7 | °C | For air-to-water heat pumps: Operation limit temperature | TOL | na | °C |
| Cycling interval capacity for neating | P _{cych} | na | kW | Cycling interval efficiency | СОРсус | na | - |
| Degradation co-efficient | Cdh | 0,99 | - | Heating water operating limit temperature | WTOL | 65 | °c |
| Power consumption in modes of | other than active | mode | • | Supplementary heater | | | • |
| Off mode | P _{OFF} | 0,018 | kW | Rated heat output | Psup | 1,5 | kW |
| hermostat-off mode | Р _{то} | 0,005 | kW | | | | • |
| Standby mode | P _{SB} | 0,018 | kW | Type of energy input | | Electric | |
| Crankcase heater mode | Р _{СК} | 0,000 | kW | | | | |
| Other items | | | • | | | | |
| Capacity control | | Fixed | | For air-to-water heat pumps: Rated air flow rate, outdoors | - | na | m3/ |
| L Sound power level, indoors/ butdoors | L _{WA} | 50/na | dB | For water-/brine-to-water heat pumps: Rated brine or water | | | |
| Annual energy consumption | Q _{HE} | 7084 | kWh | flow rate, outdoor heat exchanger | - | 2,1 | m3/ |
| or heat pump combination he | ater: | | | | | | · |
| Declared load profile/ | | XL/A | | Water heating energy | η_{wh} | 100 | % |
| nergy efficiency class | | | 1 | efficiency | ' Iwh | 100 | 70 |
| Daily electricity consumption | Qelec | 7,619 | kWh | Daily fuel consumption | Qfuel | na | kW |
| Annual electricity consumption | AEC | 1676 | kWh | Annual fuel consumption | AFC | na | GJ |
| Specific precautions and end of life information: | | end of the product | s life cycle, it mus | a recycling station or with the installation enging to a waste station or reselled to a waste station or reselle rant, compressor oil and electrical/electronic | er offering a servio | e of that type. t | is of grea |

Information for heat pump space heaters and heat pump combination heaters Average climate and Low temperature



| Rated heat output (*)Prated13kWDeclared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature 7 jSeasonal space heating energy efficiency n_5 182%Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature 20 °C and outdoor temperature 20 °C and $1j = + 2^{\circ}$ °CDeclared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature 20 °C and outdoor temperature $T = -7^{\circ}$ °CCOPd4,69T $j = +7^{\circ}$ °CPdh11,8kWT $j = -7^{\circ}$ °CCOPd4,69T $j = +2^{\circ}$ °CPdh12,1kWT $j = -7^{\circ}$ °CCOPd4,69T $j = +12^{\circ}$ °CPdh11,8kWT $j = -7^{\circ}$ °CCOPd4,69T $j = +12^{\circ}$ °CPdhnakWT $j = -7^{\circ}$ °CCOPd6,69T $j = +12^{\circ}$ °CPdhnakWT $j = -7^{\circ}$ °CCOPdnaT $j = -15^{\circ}$ °C (f TOL $< -20^{\circ}$ °C)PdhnakWT $j = -5^{\circ}$ °C (f TOL $< -20^{\circ}$ °C)COPdnaBivalent temperatureT $_{Biv}$ -7°C°CPor air-to-water heat pumps: T $j = -15^{\circ}$ °C (f TOL $< -20^{\circ}$ °C)COPdnaPower consumption in modes other than active mode0,018kWVWFor air-to-water heat pumps: Rated heat outputPsup1,6Off modeP $_{ov}$ 0,022kWNWPsup1,6kWCapacity controlFixedSa14kWhFor air- | Average climate and Low | temperature | | | | Ljungby | | <u> </u> | |
|---|--|-----------------------------|--|---|--|---------------------------|-------------------|-------------|--|
| Water-to-water heat pump: No Controller class: VI - Brine-to-water heat pump: No Package efficiency 186 % Equipped with a supplementary heater: Yes Package efficiency 186 % Faurance in solution interaction heater: Yes Package efficiency 186 % Faurance inters shall be declared for modum temperature application. No No No No Rated heat output (*) Protect 13 KW Item Symbol Value Unit Rated heat output (*) Protect 13 KW Item Symbol Value Unit Item Symbol Value Unit Item Symbol Value Unit Item (Symbol Value Unit Item (Symbol Value Unit Item (Symbol Value Unit Item (Symbol Value Unit Item (Symbol Value Unit Item (Symbol Value Unit Item (Symbol Value Unit Item (Symbol Value Unit Item (Symbol Value | Model(s): | | CTC EcoPart 41 | .2 + CTC EcoZe | enith i360/ i360F | | | | |
| Brine-to-water heat pump: Yes Controller contribution: 3,5 % Low-temperature heat pump: No Package efficiency: 166 % Equipoed with a supplementary heater: Yes Package efficiency class: A+++ - Heat pump combination heater: Yes Package efficiency class: A+++ - Parameters shall be declared for witemperature application. Yes Symbol Value Unit Rate heat output (*) Proted 13 kW Seasonal space heating energy ng 1822 % Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature 7 J Image: temperature for part load at indoor temperature 20 °C and outdoor temperature 7 J 19 = - 7°C Pdh 11,8 kW Tj = - 7°C COPd 4,69 - | Air-to-water heat pump: | | No | | Energy efficiency class: | A+++ | - | | |
| Low-temperature heat pumpe: No Package efficiency 186 % Equipped with a supplementary heater: Yes Package efficiency class: A++ - Parameters shall be declared for medium-temperature application. The parameters shall be declared for medium-temperature application. Item Symbol Value Unit Rated heat output (*) Protect 13 KW Second space heating energy ng 1822 % Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature 1 Item Symbol Value Unit T = - 7 °C Pdh 11.8 WW Ti = - 7 °C COPd 4,88 - T = + 7 °C Pdh 11.9 WW Ti = + 2 °C COPd 4,69 - T = + 7 °C Pdh 11,9 WW Ti = + 2 °C COPd 4,69 - T = + 7 °C Pdh 11,8 WW Ti = + 2 °C COPd 5,26 - T = + 12 °C Pdh na KW Ti = + 2 °C COPd na< | Water-to-water heat pump: | | No | | Controller class: | VII | - | | |
| Equipped with a supplementary heater: Yes Package efficiency class: A+++ - Heat pump combination heater: Yes Package efficiency class: A+++ - Heat pump combination heater: Yes Parameters shall be declared for medium-temperature application, except for low-temperature heat pumps. For low-temperature heat pumps, parameters shall be declared for medium-temperature application, except for low-temperature heat pumps. For low-temperature heat pumps, parameters shall be declared for medium-temperature application. Heat for low-temperature application, except for low-temperature heat pumps, parameters shall be declared for medium-temperature application, except for low-temperature heat pumps, parameters shall be declared for medium-temperature application, except for low-temperature heat pumps, parameters shall be declared for medium-temperature application, except for low-temperature for low-temperature application, except for low-temperature application, except for low-temperature application, except for low-temperature beat pumps, parameters shall be declared for medium-temperature approximation temperature approximation temperature application, except for low-temperature application, except for low-temperature application, except for low-temperature application, except for low and the door temperature application temperature application, except for low and the door temperature application temperature application temperature application in temperature application in temperature application in temperature application application in temperature application in tempera | Brine-to-water heat pump: | | Yes | | Controller contribution: | 3,5 | % | | |
| Heat pump combination heater: Yes Parameters shall be declared for medum-temperature application. Item Symbol Value Unit Rated heat output (*) Proted 13 kW Item Symbol Value Unit T = - 7 C Pdh 11,8 kW T = - 7 C COPd 4,69 - T = - 7 C Pdh 11,8 kW T = - 7 C COPd 4,69 - T = + 12 °C Pdh 12,0 kW T = - 7 °C COPd 4,69 - T = operation limit Pdh 12,0 kW T = + 12 °C COPd 5,66 - T = operation limit Pdh na kW T = + 12 °C COPd na - For air-to-water heat pumps: r = - 7 °C Pdh na - | Low-temperature heat pump | | No | | Package efficiency: | 186 | % | | |
| Parameters shall be declared for low-temperature application. tem Symbol Value Unit Value Value Value Value Value Value <th colspa<="" td=""><td>Equipped with a supplementa</td><td>ary heater:</td><td>Yes</td><td></td><td>Package efficiency class:</td><td>A+++</td><td>-</td><td></td></th> | <td>Equipped with a supplementa</td> <td>ary heater:</td> <td>Yes</td> <td></td> <td>Package efficiency class:</td> <td>A+++</td> <td>-</td> <td></td> | Equipped with a supplementa | ary heater: | Yes | | Package efficiency class: | A+++ | - | |
| parameters shall be declared for low-temperature application. Item Symbol Value Unit Item Symbol Value Unit Seasonal Space heating energy ns Item Symbol Value Unit Seasonal Space heating energy ns Item Symbol Value Unit Seasonal Space heating energy ns Item Symbol Value Unit Seasonal Space heating energy ns Item Symbol Value Unit Seasonal Space heating energy ns Item Symbol Value Unit Seasonal Space heating energy nato for part load at indoor temperature 20 'C and Unit dual at indoor temperature 20 'C and Unit of the seasonal Space heating energy nato for part load at indoor temperature 20 'C and Unit of the seasonal Space heating energy nato for part load at indoor temperature 20 'C and Unit of the seasonal Space heating energy nato for part load at indoor temperature 20 'C and Unit of the seasonal Space heating energy nato for part load at indoor temperature 20 'C and Unit temperature 20 'C and Unit 11,9 KW Ti = 7 'C C COPd 4,88 - 1,9 'C C OPd 4,88 - 1,9 'C C OPd 5,23 - 2 'C C OPd 4,88 - 1,9 'C C OPd 4,69 - 1,1 'F 'C C COPd 5,23 - 2 'C C OPd 4,69 - 1,1 'F 'C C COPd 4,69 - 2 'C 'C C OPd 1,1 'F 'C 'C 'C C OPd 1,1 'F 'C | | | | | | | | | |
| ItemSymbolValueUnitItemSymbolValueUnitRated heat output (*) $Prated$ 13kWSeasonal space heating energy n_s 1829xDeclared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature 7 j $T = -7^{\circ}C$ Pdh $T = -7^{\circ}C$ $COPd$ 4.69 -4.69 $-7.7^{\circ}C$ $COPd$ 4.69 $-7.7^{\circ}C$ $COPd$ $7.6^{\circ}C$ $-7.7^{\circ}C$ $COPd$ $7.6^{\circ}COPd$ $7.6^{\circ}CO$ | | | | ion, except fo | r low-temperature heat pumps. For | ⁻ low- tempera | ture heat pu | mps, | |
| Rate deat output (*)Proted13kWDeclared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T iSeasonal space heating energy efficiency n_s 182%Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T iDeclared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature 20 °C | · | - | | | | | | | |
| Rate near output (*)Protect1.3KWDeclared capacity for heating for part load at indoor temperature 20 *C and outdoor temperature 1Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 *C and outdoor temperature 20 *C and outdoor temperature 20 *C and part load at indoor temperature 20 *C and outdoor temperature 20 *C and part load at indoor temperature 20 *C and outdoor temperature 1 = - 7*CT = - 7*CPdh11,8KWT = + 7*CPdh12,0KWT = + 7*CPdh12,0KWT = + 7*CPdh11,8KWT = + 7*CPdh11,8KWT = + 2*CPdh11,8KWT = + 2*CPdhnaKWT = - stricto-water temperaturePdhnaT = - stricto-water heat pumps: t = - 15*C (If TOL < - 20*C) | Item | Symbol | Value | Unit | | | Value | Unit | |
| outdoor temperature T j $T = -7^{\circ}C$ Pdh11.8KW $T = -7^{\circ}C$ Pdh11.9KW $T = -7^{\circ}C$ Pdh11.9KW $T = +2^{\circ}C$ Pdh12.1KW $T = +2^{\circ}C$ COPd4.69 $T = +2^{\circ}C$ Pdh12.1KW $T = +2^{\circ}C$ COPd5.23 $T = +2^{\circ}C$ COPd4.69 $T = +2^{\circ}C$ COPd4.69 $T = +2^{\circ}C$ COPd5.23 $T = +2^{\circ}C$ COPd4.69 $T = -15^{\circ}C (f TOL < -20^{\circ}C)$ Pdh $P dh$ naKW $T = -15^{\circ}C (f TOL < -20^{\circ}C)$ Pdh $R v T = -15^{\circ}C (f TOL < -20^{\circ}C)$ Pdh $R v T = -15^{\circ}C (f TOL < -20^{\circ}C)$ Pdh $R v T = -15^{\circ}C (f TOL < -20^{\circ}C)$ Pdh $R v T = -15^{\circ}C (f TOL < -20^{\circ}C)$ Pdh $R v T = -15^{\circ}C (f TOL < -20^{\circ}C)$ Pdh $R v T = -15^{\circ}C (f TOL < -20^{\circ}C)$ Pdh $R v T = -15^{\circ}C (f TOL < -20^{\circ}C)$ Pdh $R v T = -15^{\circ}C (f TOL < -20^{\circ}C)$ Pdh $R v T = -15^{\circ}C (f TOL < -20^{\circ}C)$ Pdh $R v T = -15^{\circ}C (f TOL < -20^{\circ}C)$ Pdh $R v T = -15^{\circ}C (f TOL < -20^{\circ}C)$ Pdh $R v T = -15^{\circ}C (f TOL < -20^{\circ}C)$ Pdh $R v T = -15^{\circ}C (f TOL < -20^{\circ}C)$ ParePereckal v T = 0, 0, 018KWPereckal v T = 0, 0, 012KWPereckal v T = 0, 0, 012KWPor | Rated heat output (*) | Prated | 13 | kW | | n _s | 182 | % | |
| $ \begin{array}{c c c c c c c c c c c c c c c c c c c $ | | for part load at in | door temperatu | re 20 °C and | - | | | | |
| T j = + 7 °CPdh12,0kWT j = +7 °CCOPd5,06T j = + 12 °CPdh12,1kWT j = +12 °CCOPd5,23-T j = bivalent temperaturePdh11,8kWT j = bivalent temperatureCOPd4,69-T j = operation limit temperaturePdhnakWT j = operation limit temperatureCOPdna-For air-to-water heat pumps: T j = -15 °C (if TOL < -20 °C) | T j = – 7 °C | Pdh | 11,8 | kW | T j = – 7 °C | COPd | 4,69 |] - | |
| T j = + 7 °CPdh12,0kWT j = +7 °CCOPd5,06T j = + 12 °CPdh12,1kWT j = +12 °CCOPd5,23-T j = byalent temperaturePdh11,8kWT j = byalent temperatureCOPd4,69-T j = operation limitPdhnakWT j = operation limitCOPdna-For air-to-water heat pumps:PdhnakWT j = operation limitCOPdna-For air-to-water heat pumps:PdhnakWT j = -15 °C (if TOL < -20 °C) | | Pdh | | | | COPd | - | - 1 | |
| Tj = bivalent temperaturePdh11,8kWTj = bivalent temperatureCOPd4,69Tj = operation limit temperaturePdhnakWTj = operation limit temperatureTj = operation limit temperatureCOPdna-For air-to-water heat pumps: TTPdhnakWFor air-to-water heat pumps: TCOPdna-Bivalent temperatureTbiv-7rCFor air-to-water heat pumps: Operation limit temperatureTOLna-Cycling interval capacity for heatingP cychnakWCycling interval efficiencyCOPcycna-Degradation co-efficientCdh0,98For air-to-water heat pumps: Operation limit temperatureTOLna-Power consumption in modes other than active mode0,018kWKWSupplementary heater Rated heat outputPsup1,6kWType of energy inputElectricSupplementary heater for air-to-water heat pumps: Rated air flow rate, outdoorsnam3Gapacity controlFixed5814kWhFor air-to-water heat pumps: Rated brine or water flow rate, outdoorsnam3For heat pump combination heater:DPourse: Aled brine or water flow rate, outdoorsnam3Daily electricity consumptionQelec7,619kWhAnnual fleel consumptionQfuelnaDaily electricity consumptionAEC1676KWhAnnu | T j = + 7 °C | Pdh | 12,0 | kW | T j = +7 °C | COPd | 5,06 | - [| |
| T j = operation limit temperature Pdh na KW T j = operation limit temperature $COPd$ naFor air-to-water heat pumps: T j = -15 °C (if TOL < - 20 °C) | T j = + 12 °C | Pdh | 12,1 | kW | T j = +12 °C | COPd | 5,23 | - | |
| temperaturePannaKWtemperatureCDPanaFor air-to-water heat pumps: T j = -15 °C (if TOL < - 20 °C) | T j = bivalent temperature | Pdh | 11,8 | kW | T j = bivalent temperature | COPd | 4,69 | - | |
| T j = -15 °C (if TOL < - 20 °C)PannaKWT j = -15 °C (if TOL < -20 °C)COPanaBivalent temperatureT $_{biv}$ -7°CFor air-to-water heat pumps: Operation limit temperatureTOLna°CCycling interval capacity for heating P_{cych} nakWCycling interval efficiencyCOPcycna~Degradation co-efficientCdh0,98-Heating water operating limit temperatureWTOL65°CPower consumption in modes other than active mode0,018kWKWSupplementary heaterRated heat outputPsup1,6kWType of energy inputElectricSupplementary heaterRated air flow rate, outdoorsnam3Capacity controlFixedSol/nadBFor air-to-water heat pumps: nanam3Sound power level, indoors/ outdoorsL_WASO/nadBFor water/brine-to-water heat pumps: Rated air flow rate, outdoorsnam3For heat pump combination heater:Declared load profile/ Energy efficiency classXL / AWater heating energy efficiencynaMADaily electricity consumptionAEC1676kWhAnnual fuel consumptionAFCnaAnnual be deposited at a recycling station or with the installation engineer for correct water wate management. At the end of the product sile cycling station or with the installation engineer for correct water management. At the end of the product sile cycle, it must be send or correct yo to a waste station or realer defficing a service of tat | | Pdh | na | kW | | COPd | na | - 1 | |
| Bradent temperature I_{biv} $-I_{c}$ C_{c} Operation limit temperature IOL Ina C_{c} Operation limit temperature IOL Ina C_{c} $Cycling interval capacity for P_{cych} Ina V_{cych} V_{cych} V_{cych} Ina V_{cych} V_{cych} V_{cych} V_{cych} Ina V_{cych} V_{cych} V_{cych} V_{cych} Ina V_{cych} V_{cych} Ina V_{cych} V_{cych} Ina V_{cych} V_{cych} V_{cych} V_{cych} V_{cych} Ina V_{cych} V_{cych} V_{cych} Ina V_{cych} V_{cych} Ina V_{cych} V_{cych} Ina V_{cych} V_{cych} Ina V_{cych} Ina V_{cych} V_{cych} V_{cych} V_{cych} V_{cych} Ina V_{cych} Ina V_{cych} V_{cych} Ina V_{cych} Ina V_{cych} V_{cych}$ | | Pdh | na | kW | | COPd | na | - | |
| heating P_{cych} nakwCycling interval efficiency $CDPcyc$ naDegradation co-efficient Cdh $0,98$ -Heating water operating limit $WTOL$ 65 TC Power consumption in modes other than active modeOff mode P_{orr} $0,018$ kW Supplementary heaterRated heat output $Psup$ $1,6$ kV Off mode P_{orr} $0,022$ kW Type of energy input $Electric$ $Electric$ Standby mode P_{se} $0,018$ kW Type of energy input $Electric$ $m3$ Capacity control $Fixed$ $For air-to-water heat pumps:numps: Rated brine or waterflow rate, outdoorsnam3Sound power level, indoors/outdoorsL_{WA}50/nadBWhhRated heating energyn_{wh}naFor heat pump combination heater:Erergy efficiency classXL / AWater heating energyefficiencyn_{wh}100\%Daily electricity consumptionQelec7,619kWhAnnual fuel consumptionAFCnaKWAnnual electricityconsumptionAEC1676kWhAnnual fuel consumptionAFCnaKWSpecific precautions and endThe packaging must be deposited at a recycling station or with the installation engineer for correct waste management. At thend the product's life cycle, it must be sent correctly to a waste station or with the installation engineer for correct waste management. At th$ | Bivalent temperature | T _{biv} | -7 | °C | | TOL | na | °C | |
| Degradation co-efficient Cah 0,98 - temperature W10L 65 Can Power consumption in modes other than active mode Off mode Porf 0,018 kW Supplementary heater Off mode Porf 0,018 kW Supplementary heater Rated heat output Psup 1,6 kV Thermostat-off mode Pro 0,022 kW Type of energy input Electric Electric Crankcase heater mode Por 0,000 kW Type of energy input Electric m3, Capacity control Fixed For air-to-water heat pumps: Rated air flow rate, outdoors - na m3, Sound power level, indoors/ outdoors L KWA 50/na dB Jumps: Rated brine or water - 2,6 m3, For heat pump combination heater: Declared load profile/ XL / A Water heating energy Nuh 100 % Daily electricity consumption Qelec 7,619 kWh Annual fuel consumption AFC na KW Annual electricity AEC 1676 kWh Annual fuel consumptio | | P _{cych} | na | kW | Cycling interval efficiency | СОРсус | na | - | |
| Off mode P orf 0,018 kW Rated heat output P sup 1,6 kV Thermostat-off mode P ro 0,022 kW Type of energy input Electric Electric Standby mode P sa 0,018 kW Type of energy input Electric Electric Crankcase heater mode P cx 0,000 kW Type of energy input Electric Capacity control Fixed For air-to-water heat pumps: Rated air flow rate, outdoors na m3, Sound power level, indoors/ outdoors L wA 50/na dB For water-/brine-to-water heat pumps: Rated brine or water na m3, For heat pump combination heater: Declared load profile/ XL / A Water heating energy n_wh 100 % Daily electricity consumption Qelec 7,619 kWh Daily fuel consumption Qfuel na kW Annual electricity AEC 1676 kWh Annual fuel consumption AFC na G Specific precautions and end The packaging must be deposited at a recycling station or with the installation engineer of correct waste management. At thend of the product's lif | Degradation co-efficient | Cdh | 0,98 | - | | WTOL | 65 | °C | |
| Thermostat-off mode P_{TO} $0,022$ kW Standby mode P_{ss} $0,018$ kW Crankcase heater mode P_{CK} $0,000$ kW Other items P_{CK} $0,000$ kW Capacity control Fixed For air-to-water heat pumps: Rated air flow rate, outdoors na m3, Sound power level, indoors/ L_{WA} $50/na$ dB For water-/brine-to-water heat pumps: Rated air flow rate, outdoors na m3, Annual energy consumption Q_{HE} 5814 kWh For water./brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger 2,6 m3, For heat pump combination heater: Declared load profile/ KL / A Water heating energy fliciency η_{wh} 100 % Daily electricity consumption Qelec $7,619$ kWh Daily fuel consumption Qfuel na kW Annual electricity AEC 1676 kWh Annual fuel consumption AFC na G Specific precautions and end The packaging must be deposited at a recycling station or with the installation engineer for correct waste management. At th end of the product's | Power consumption in modes | other than active | mode | _ | Supplementary heater | | | - | |
| Standby mode P s8 0,018 kW Type of energy input Electric Crankcase heater mode P cx 0,000 kW Type of energy input Electric Other items Fixed For air-to-water heat pumps: Rated air flow rate, outdoors - na m3, Capacity control Fixed For air-to-water heat pumps: Rated air flow rate, outdoors - na m3, Sound power level, indoors/ outdoors L wA 50/na dB For water-/brine-to-water heat pumps: Rated brine or water - 2,6 m3, For heat pump combination heater: Declared load profile/ XL / A Water heating energy efficiency nu 100 % Daily electricity consumption Qelec 7,619 kWh Daily fuel consumption Qfuel na kW Annual electricity consumption AEC 1676 kWh Annual fuel consumption AFC na G Specific precautions and end The packaging must be deposited at a recycling station or with the installation engineer for correct waste management. At the end of the product's life cycle, it must be sent correctly to a waste station or reseller offering a service of that type. t is of gree | Off mode | P _{OFF} | 0,018 | kW | Rated heat output | Psup | 1,6 | kW | |
| Crankcase heater mode P cx 0,000 kW Other items Capacity control Fixed For air-to-water heat pumps: Rated air flow rate, outdoors na m3, Capacity control Image: construct the construction of t | Thermostat-off mode | Р _{то} | 0,022 | kW | | | | | |
| Other items Capacity control Fixed Sound power level, indoors/ L WA 50/na outdoors - Annual energy consumption Q HE 5814 kWh For water-/brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger For heat pump combination heater: - Declared load profile/ XL / A Energy efficiency class XL / A Daily electricity consumption Qelec 7,619 kWh Annual electricity AEC 1676 kWh Annual fuel consumption AFC Namual electricity AEC 1676 kWh Annual fuel consumption AFC The packaging must be deposited at a recycling station or with the installation engineer for correct waste management. At the end of the product's life cycle, it must be sent correctly to a waste station or reseller offering a service of that type. t is of gree | Standby mode | P _{SB} | 0,018 | kW | Type of energy input | | Electric | | |
| Capacity control Fixed For air-to-water heat pumps: Rated air flow rate, outdoors na m3, Sound power level, indoors/ outdoors L WA 50/na dB For water-/brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat - 2,6 m3, Annual energy consumption Q HE 5814 kWh Water heating energy - 2,6 m3, For heat pump combination heater: Declared load profile/ XL / A Water heating energy nwh 100 % Daily electricity consumption Qelec 7,619 kWh Daily fuel consumption Qfuel na kWh Annual electricity consumption AEC 1676 kWh Annual fuel consumption AFC na G Specific precautions and end The packaging must be deposited at a recycling station or with the installation engineer for correct waste management. At the end of the product's life cycle, it must be sent correctly to a waste station or reseller offering a service of that type. t is of gree | Crankcase heater mode | Р _{СК} | 0,000 | kW | | | | | |
| Capacity control Fixed Rated air flow rate, outdoors na m3, Sound power level, indoors/ outdoors L wA 50/na dB For water-/brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger For water-/brine-to-water heat pumps: Rated brine or water m3, For heat pump combination heater: 5814 kWh Water heating energy efficiency class - 2,6 m3, Declared load profile/ Energy efficiency class XL / A Water heating energy efficiency nwh 100 % Daily electricity consumption Qelec 7,619 kWh Daily fuel consumption Qfuel na kW Annual electricity consumption AEC 1676 kWh Annual fuel consumption AFC na G Specific precautions and end The packaging must be deposited at a recycling station or with the installation engineer for correct waste management. At the end of the product's life cycle, it must be sent correctly to a waste station or reseller offering a service of that type. t is of gree | Other items | | · · · | | | | | | |
| outdoors LWA 50/na dB pumps: Rated brine or water Annual energy consumption QHE 5814 kWh pumps: Rated brine or water For heat pump combination heater: - 2,6 m3, Declared load profile/ XL / A Water heating energy nwh 100 % Daily electricity consumption Qelec 7,619 kWh Daily fuel consumption Qfuel na kW Annual electricity AEC 1676 kWh Annual fuel consumption or with the installation engineer for correct waste management. At the end of the product's life cycle, it must be sent correctly to a waste station or reseller offering a service of that type. t is of gree | Capacity control | | Fixed | | | - | na | m3/h | |
| Annual energy consumption Q HE 5814 kWh exchanger - 2,6 m3, For heat pump combination heater: Declared load profile/ XL / A Water heating energy η_{wh} 100 % Daily electricity consumption Qelec 7,619 kWh Daily fuel consumption Qfuel na kWh Annual electricity AEC 1676 kWh Annual fuel consumption AFC na G Specific precautions and end The packaging must be deposited at a recycling station or with the installation engineer for correct waste management. At the end of the product's life cycle, it must be sent correctly to a waste station or reseller offering a service of that type. t is of gree | • | L _{WA} | 50/na | dB | | | | | |
| For heat pump combination heater: Declared load profile/ XL / A Water heating energy efficiency η_{wh} 100 % Daily electricity consumption Qelec 7,619 kWh Daily fuel consumption Qfuel na kW Annual electricity consumption AEC 1676 kWh Annual fuel consumption AFC na G Specific precautions and end The packaging must be deposited at a recycling station or with the installation engineer for correct waste management. At the end of the product's life cycle, it must be sent correctly to a waste station or reseller offering a service of that type. t is of gree | Annual energy consumption | Q _{HE} | 5814 | kWh | | - | 2,6 | m3/h | |
| Energy efficiency class XL / A efficiency Ilwh 100 % Daily electricity consumption Qelec 7,619 kWh Daily fuel consumption Qfuel na kW Annual electricity consumption AEC 1676 kWh Annual fuel consumption AFC na G Specific precautions and end The packaging must be deposited at a recycling station or with the installation engineer for correct waste management. At the end of the product's life cycle, it must be sent correctly to a waste station or reseller offering a service of that type. t is of gree | | leater: | | | | | | | |
| Energy efficiency class efficiency Daily electricity consumption Qelec 7,619 kWh Daily fuel consumption Qfuel na kWh Annual electricity consumption AEC 1676 kWh Annual fuel consumption AFC na G. Specific precautions and end The packaging must be deposited at a recycling station or with the installation engineer for correct waste management. At the end of the product's life cycle, it must be sent correctly to a waste station or reseller offering a service of that type. t is of gree | - | | XL / A | | | n | 100 | % | |
| Annual electricity consumption AEC 1676 kWh Annual fuel consumption AFC na G. Specific precautions and end The packaging must be deposited at a recycling station or with the installation engineer for correct waste management. At th end of the product's life cycle, it must be sent correctly to a waste station or reseller offering a service of that type. t is of gree | Energy efficiency class | I | | 1 | efficiency | - IWI | | | |
| AEC 1676 KWh Annual fuel consumption AFC na G. consumption The packaging must be deposited at a recycling station or with the installation engineer for correct waste management. At the end of the product's life cycle, it must be sent correctly to a waste station or reseller offering a service of that type. t is of gree | , , , | Qelec | 7,619 | kWh | Daily fuel consumption | Qfuel | na | kWh | |
| Specific precautions and end end of the product's life cycle, it must be sent correctly to a waste station or reseller offering a service of that type. t is of gree | | AEC | | | - | | | GJ | |
| of the product as household waste is not permitted. | | | end of the product' importance that the | s life cycle, it mus e product's refrige | t be sent correctly to a waste station or resell rant, compressor oil and electrical/electronic | er offering a servic | e of that type. t | is of great | |
| | Contact details | CTC AB, Näsväge | | | | | | 231218 | |

Information for heat pump space heaters and heat pump combination heaters **Cold climate and Medium temperature**



| Cold climate and Medium te | emperature | | | | Ljungby | | |
|--|--------------------|--------------------|--|--|----------------------|-------------------|-------------|
| Model(s): | | CTC EcoPart 4 | 12 + CTC EcoZe | enith i360/ i360F | | | |
| Air-to-water heat pump: | | No | | Energy efficiency class: | | | |
| Water-to-water heat pump: | | No | | Controller class: | VII | - | |
| Brine-to-water heat pump: | | Yes | | Controller contribution: | 3,5 | % | |
| Low-temperature heat pump: | | No | | Package efficiency: | 145 | % | |
| Equipped with a supplementary | heater: | Yes | | Package efficiency class: | | - | |
| Heat pump combination heater | | Yes | | | | | |
| | | erature applicat | tion, except fo | r low-temperature heat pumps. For | low- tempera | ture heat pu | mps, |
| parameters shall be declared fo | r low-temperat | ure application. | | | | | |
| Item | Symbol | Value | Unit | Item | Symbol | Value | Unit |
| Rated heat output (*) | Prated | 12 | kW | Seasonal space heating energy efficiency | η _s | 141 | % |
| Declared capacity for heating fo outdoor temperature T j | or part load at in | idoor temperatu | ure 20 °C and | Declared coefficient of performa part load at indoor temperature | | | |
| Г ј = — 7 °С | Pdh | 11,2 | kW | T j = – 7 °C | COPd | 3,56 |] - |
| Г ј = + 2 °С | Pdh | 11,4 | kW | T j = +2 °C | COPd | 3,94 |] - |
| Г ј = + 7 °С | Pdh | 11,6 | kW | T j = +7 °C | COPd | 4,29 | - |
| Г ј = + 12 °С | Pdh | 11,7 | kW | T j = +12 °C | COPd | 4,54 | - |
| i = bivalent temperature | Pdh | 11 | kW | T j = bivalent temperature | COPd | 3,25 | - |
| T j = operation limit temperature | Pdh | na | kW | T j = operation limit temperature | COPd | na | - |
| For air-to-water heat pumps: [j = – 15 °C (if TOL < – 20 °C) | Pdh | na | kW | For air-to-water heat pumps: T j = – 15 °C (if TOL < – 20 °C) | COPd | na | - |
| Bivalent temperature | T _{biv} | -18 | °C | For air-to-water heat pumps: Operation limit temperature | TOL | na | °C |
| Cycling interval capacity for neating | P _{cych} | na | kW | Cycling interval efficiency | СОРсус | na | _ |
| Degradation co-efficient | Cdh | 0,99 | - | Heating water operating limit temperature | WTOL | 65 | °C |
| Power consumption in modes o | ther than active | mode | _ | Supplementary heater | | | - |
| Off mode | P _{OFF} | 0,018 | kW | Rated heat output | Psup | 1,4 | kW |
| Thermostat-off mode | Р _{то} | 0,005 | kW | | | | |
| Standby mode | P _{SB} | 0,018 | kW | Type of energy input | | Electric | |
| Crankcase heater mode | Р _{СК} | 0,000 | kW | | | | |
| Other items | | • | • | | • | | |
| Capacity control | | Fixed | | For air-to-water heat pumps: Rated air flow rate, outdoors | - | na | m3/ł |
| Sound power level, indoors/ | L _{WA} | 50/na | dB | For water-/brine-to-water heat pumps: Rated brine or water | | | |
| Annual energy consumption | Q _{HE} | 8195 | kWh | flow rate, outdoor heat exchanger | - | 2,1 | m3/h |
| For heat pump combination hea | ater: | | | | | | |
| Declared load profile/ | | XL/A | | Water heating energy | η _{wh} | 100 | % |
| Energy efficiency class | | <u> </u> | | efficiency | ' Iwh | 100 | |
| Daily electricity consumption | Qelec | 7,619 | kWh | Daily fuel consumption | Qfuel | na | kWh |
| Annual electricity consumption | AEC | 1676 | kWh | Annual fuel consumption | AFC | na | GJ |
| Specific precautions and end of life information: | | end of the product | t's life cycle, it mus ne product's refrige | a recycling station or with the installation enging to be sent correctly to a waste station or reselled rant, compressor oil and electrical/electronic | er offering a servio | e of that type. t | is of great |

Information for heat pump space heaters and heat pump combination heaters **Cold climate and Low temperature**



| Model(s):Air-to-water heat pump:Water-to-water heat pump:Brine-to-water heat pump:Low-temperature heat pump:Equipped with a supplementary heHeat pump combination heater:Parameters shall be declared for mparameters shall be declared for loItemRated heat output (*)Declared capacity for heating for poutdoor temperature T jT j = -7 °CT j = + 2 °CT j = + 7 °CT j = + 12 °CT j = bivalent temperatureT j = operation limittemperature | nedium-tempe ow-temperatu Symbol Prated | No No Yes No Yes Yes Yes Prature application. Value 12 door temperatur 11,9 12,0 12,1 | on, except for Unit kW | nith i360/ i360F Energy efficiency class: Controller class: Controller contribution: Package efficiency: Package efficiency class: Tow-temperature heat pumps. For Item Seasonal space heating energy efficiency Declared coefficient of performation part load at indoor temperature T j = -7 °C | 3,5 189 low- temperat Symbol η_s ance or primar | Value 185 | Unit % |
|---|---|--|---|---|---|---|-------------|
| Water-to-water heat pump: Brine-to-water heat pump: Low-temperature heat pump: Equipped with a supplementary he Heat pump combination heater: Parameters shall be declared for m parameters shall be declared for lo Item Rated heat output (*) Declared capacity for heating for poutdoor temperature T j T $j = -7$ °C T $j = +2$ °C T $j = +7$ °C T $j = +12$ °C T $j = hivalent temperature$ T $j = operation limit$ | nedium-tempe ow-temperatu Symbol Prated Dart load at inc Pdh Pdh Pdh Pdh Pdh | No Yes No Yes Yes erature application. Value 12 door temperatur 11,9 12,0 12,1 | Unit kW e 20 °C and kW | Controller class: Controller contribution: Package efficiency: Package efficiency class: Tow-temperature heat pumps. For Item Seasonal space heating energy efficiency Declared coefficient of performation part load at indoor temperature | 3,5 189 low- temperat Symbol η_S ance or primar | % - ture heat pur Value 185 | Unit % |
| Brine-to-water heat pump: Low-temperature heat pump: Equipped with a supplementary he Heat pump combination heater: Parameters shall be declared for m parameters shall be declared for lo Item Rated heat output (*) Declared capacity for heating for p outdoor temperature T j T j = $-7 \degree$ C T j = $+2 \degree$ C T j = $+7 \degree$ C T j = $+12 \degree$ C T j = $+12 \degree$ C T j = bivalent temperature T j = operation limit | nedium-tempe ow-temperatu Symbol Prated Dart load at inc Pdh Pdh Pdh Pdh Pdh | Yes No Yes Yes erature application. Value 12 door temperatur 11,9 12,0 12,1 | Unit kW e 20 °C and kW | Controller contribution: Package efficiency: Package efficiency class: Tow-temperature heat pumps. For Item Seasonal space heating energy efficiency Declared coefficient of performation part load at indoor temperature | 3,5 189 low- temperat Symbol η_S ance or primar | % - ture heat pur Value 185 | Unit % |
| Low-temperature heat pump: Equipped with a supplementary he Heat pump combination heater: Parameters shall be declared for m parameters shall be declared for lo Item Rated heat output (*) Declared capacity for heating for p outdoor temperature T j T j = $-7 \degree C$ T j = $+2 \degree C$ T j = $+7 \degree C$ T j = $+12 \degree C$ T j = $+12 \degree C$ T j = bivalent temperature T j = operation limit | nedium-tempe ow-temperatu Symbol Prated Dart load at inc Pdh Pdh Pdh Pdh Pdh | No Yes Yes erature application. Value 12 door temperatur 11,9 12,0 12,1 | Unit kW e 20 °C and kW | Package efficiency: Package efficiency class: low-temperature heat pumps. For Item Seasonal space heating energy efficiency Declared coefficient of performation part load at indoor temperature | 189 low- temperat Symbol η _s ance or primar | % - cure heat pur Value 185 | Unit % |
| Equipped with a supplementary he Heat pump combination heater: Parameters shall be declared for m parameters shall be declared for lo Item Rated heat output (*) Declared capacity for heating for p outdoor temperature T j T j = $-7 \degree$ C T j = $+2 \degree$ C T j = $+7 \degree$ C T j = $+12 \degree$ C T j = $+12 \degree$ C T j = $+12 \degree$ C | nedium-tempe ow-temperatu Symbol Prated Dart load at inc Pdh Pdh Pdh Pdh Pdh | Yes Yes erature application. Value 12 door temperatur 11,9 12,0 12,1 | Unit kW e 20 °C and kW | Package efficiency class: Iow-temperature heat pumps. For Item Seasonal space heating energy efficiency Declared coefficient of performa part load at indoor temperature | low- temperat Symbol η _s ance or primar | - ture heat pur Value 185 | Unit % |
| Heat pump combination heater: Parameters shall be declared for m parameters shall be declared for lo Item Rated heat output (*) Declared capacity for heating for p outdoor temperature T j T j = $-7 \degree C$ T j = $+2 \degree C$ T j = $+7 \degree C$ T j = $+12 \degree C$ T j = $+12 \degree C$ T j = operation limit | nedium-tempe ow-temperatu Symbol Prated Dart load at inc Pdh Pdh Pdh Pdh Pdh | Yes erature applicati re application. Value 12 door temperatur 11,9 12,0 12,1 | Unit kW e 20 °C and kW | Iow-temperature heat pumps. For Item Seasonal space heating energy efficiency Declared coefficient of performa part load at indoor temperature | Symbol N _S | Value 185 | Unit % |
| Parameters shall be declared for m parameters shall be declared for lo Item Rated heat output (*) Declared capacity for heating for poutdoor temperature T j T $j = -7 °C$ T $j = + 2 °C$ T $j = + 7 °C$ T $j = + 12 °C$ T $j = bivalent temperature$ T $j = operation limit$ | ow-temperatu Symbol Prated Dart load at inc Pdh Pdh Pdh Pdh Pdh | erature applicati re application. Value 12 door temperatur 11,9 12,0 12,1 | Unit kW e 20 °C and kW | Item Seasonal space heating energy efficiency Declared coefficient of performa part load at indoor temperature | Symbol N _S | Value 185 | Unit % |
| parameters shall be declared for lo Item Rated heat output (*) Declared capacity for heating for p outdoor temperature T j T j = - 7 °C T j = + 2 °C T j = + 7 °C T j = + 12 °C T j = bivalent temperature T j = operation limit | ow-temperatu Symbol Prated Dart load at inc Pdh Pdh Pdh Pdh Pdh | re application. Value 12 door temperatur 11,9 12,0 12,1 | Unit kW e 20 °C and kW | Item Seasonal space heating energy efficiency Declared coefficient of performa part load at indoor temperature | Symbol N _S | Value 185 | Unit % |
| Item Rated heat output (*) Declared capacity for heating for poutdoor temperature T j T $j = -7$ °C T $j = +2$ °C T $j = +7$ °C T $j = +12$ °C T $j = bivalent temperature$ T $j = operation limit$ | Symbol Prated Dart load at inc Pdh Pdh Pdh Pdh Pdh | Value 12 door temperatur 11,9 12,0 12,1 | kW re 20 °C and kW | Seasonal space heating energy efficiency Declared coefficient of performa part load at indoor temperature | م مnce or primar | 185 | % |
| Rated heat output (*) Declared capacity for heating for po outdoor temperature T j T j = - 7 °C T j = + 2 °C T j = + 7 °C T j = + 12 °C T j = bivalent temperature T j = operation limit | Prated Dart load at inc Pdh Pdh Pdh Pdh Pdh | 12 door temperatur 11,9 12,0 12,1 | kW re 20 °C and kW | Seasonal space heating energy efficiency Declared coefficient of performa part load at indoor temperature | م مnce or primar | 185 | % |
| Declared capacity for heating for p outdoor temperature T j T j = $-7 \degree C$ T j = $+2 \degree C$ T j = $+7 \degree C$ T j = $+12 \degree C$ T j = bivalent temperature T j = operation limit | part load at inc Pdh Pdh Pdh Pdh Pdh | door temperatur 11,9 12,0 12,1 | e 20 °C and kW | efficiency Declared coefficient of performa part load at indoor temperature | ance or primar | | |
| outdoor temperature T j T j = - 7 °C T j = + 2 °C T j = + 7 °C T j = + 12 °C T j = bivalent temperature T j = operation limit | Pdh Pdh Pdh Pdh | 11,9 12,0 12,1 | kW | part load at indoor temperature | | y energy rati | |
| T j = + 2 °C T j = + 7 °C T j = + 12 °C T j = bivalent temperature T j = operation limit | Pdh Pdh Pdh | 12,0 12,1 | | Ti = -7 °C | | | |
| Τ j = + 2 °C Γ j = + 7 °C Γ j = + 12 °C Γ j = bivalent temperature Γ j = operation limit | Pdh Pdh Pdh | 12,0 12,1 | | | COPd | 4,89 |] - |
| Γ j = + 12 °C Γ j = bivalent temperature Γ j = operation limit | Pdh | | | T j = +2 °C | COPd | 5,06 |] - |
| Γ j = bivalent temperature Γ j = operation limit | | 10.1 | kW | T j = +7 °C | COPd | 5,18 | - [|
| Γ j = operation limit | Pdh | 12,1 | kW | T j = +12 °C | COPd | 5,20 | - |
| | | 11,8 | kW | T j = bivalent temperature | COPd | 4,66 | - |
| • | Pdh | na | kW | T j = operation limit temperature | COPd | na | - |
| For air-to-water heat pumps: T j = – 15 °C (if TOL < – 20 °C) | Pdh | na | kW | For air-to-water heat pumps: T j = – 15 °C (if TOL < – 20 °C) | COPd | na | - |
| Bivalent temperature | T _{biv} | -20 | °C | For air-to-water heat pumps: Operation limit temperature | TOL | na | °C |
| Cycling interval capacity for heating | P _{cych} | na | kW | Cycling interval efficiency | СОРсус | na | - |
| Degradation co-efficient | Cdh | 0,98 | - | Heating water operating limit temperature | WTOL | 65 | °C |
| Power consumption in modes othe | er than active | mode | | Supplementary heater | | | |
| Off mode | P _{OFF} | 0,018 | kW | Rated heat output | Psup | 0,7 | kW |
| Thermostat-off mode | Р _{то} | 0,022 | kW | | | | - |
| Standby mode | P _{SB} | 0,018 | kW | Type of energy input | | Electric | |
| , Crankcase heater mode | Р _{ск} | 0,000 | kW | | | | |
| Other items | | , - | L | | | | |
| Capacity control | | Fixed | | For air-to-water heat pumps: Rated air flow rate, outdoors | - | na | m3/h |
| Sound power level, indoors/ | L _{WA} | 50/na | dB | For water-/brine-to-water heat pumps: Rated brine or water | | | |
| Annual energy consumption | Q _{HE} | 6373 | kWh | flow rate, outdoor heat exchanger | - | 2,6 | m3/h |
| For heat pump combination heater | er: | | | | I | | <u>.</u> |
| Declared load profile/ | | XL/A | | Water heating energy | n | 100 | % |
| Energy efficiency class | | AL / A | | efficiency | η_{wh} | 100 | % |
| Daily electricity consumption | Qelec | 7,619 | kWh | Daily fuel consumption | Qfuel | na | kWh |
| Annual electricity consumption | AEC | 1676 | kWh | Annual fuel consumption | AFC | na | GJ |
| Specific precautions and end of life information: | | end of the product's | life cycle, it must product's refriger | recycling station or with the installation engin be sent correctly to a waste station or reseller rant, compressor oil and electrical/electronic | r offering a service | e of that type. t i | is of great |
| Contact details CTC | CAB, Näsväger | | | not permitted. | | , aisposed (| |

Information for heat pump space heaters and heat pump combination heaters Warm climate and Medium temperature



| Warm climate and Medium | temperature | | | | Ljungby | | |
|--|--------------------|--------------------|---|--|----------------------|--------------------|------------|
| Model(s): | | CTC EcoPart 41 | L2 + CTC EcoZe | nith i255 | | | |
| Air-to-water heat pump: | | No | | Energy efficiency class: | | - | |
| Water-to-water heat pump: | | No | | Controller class: | VII | - | |
| Brine-to-water heat pump: | | Yes | | Controller contribution: | 3,5 | % | |
| Low-temperature heat pump: | | No | | Package efficiency: | 126 | % | |
| Equipped with a supplementar | y heater: | Yes | | Package efficiency class: | | - | |
| Heat pump combination heater | r: | Yes | | | | | |
| | | | ion, except for | r low-temperature heat pumps. For | low- tempera | iture heat pu | mps, |
| parameters shall be declared for | | | | | | | |
| tem | Symbol | Value | Unit | ltem | Symbol | Value | Uni |
| Rated heat output (*) | Prated | 12 | kW | Seasonal space heating energy efficiency | η _s | 122 | % |
| Declared capacity for heating for beating for beating for the second sec | or part load at in | door temperatu | re 20 °C and | Declared coefficient of performa part load at indoor temperature | | | |
| _j=−7 °C | Pdh | na | kW | T j = − 7 °C | COPd | na | 1 - |
| ī j = + 2 ℃ | Pdh | 10,9 | kW | T j = +2 °C | COPd | 2,81 | 1 - |
| j = + 7 °C | Pdh | 11,3 | kW | T j = +7 °C | COPd | 3,14 | 1 - |
| j = + 12 °C | Pdh | 11,7 | kW | T j = +12 °C | COPd | 3,72 |] - |
| j = bivalent temperature | Pdh | 11,0 | kW | T j = bivalent temperature | COPd | 2,90 |] - |
| Γ j = operation limit temperature | Pdh | 10,9 | kW | T j = operation limit temperature | COPd | 2,81 | - 1 |
| For air-to-water heat pumps: - j = – 15 °C (if TOL < – 20 °C) | Pdh | na | kW | For air-to-water heat pumps: T j = – 15 °C (if TOL < – 20 °C) | COPd | na | - |
| Bivalent temperature | T _{biv} | 3 | °C | For air-to-water heat pumps: Operation limit temperature | TOL | na | °C |
| Cycling interval capacity for neating | P _{cych} | na | kW | Cycling interval efficiency | СОРсус | na | - |
| Degradation co-efficient | Cdh | 0,99 | - | Heating water operating limit temperature | WTOL | 65 | °C |
| ower consumption in modes o | other than active | mode | | Supplementary heater | | - | _ |
|)ff mode | P _{OFF} | 0,018 | kW | Rated heat output | Psup | 1,3 | kW |
| hermostat-off mode | Р _{то} | 0,018 | kW | | | | |
| itandby mode | P _{SB} | 0,018 | kW | Type of energy input | | Electric | |
| Crankcase heater mode | Р _{СК} | 0,000 | kW | | | | |
| Other items | | · | · | | • | | _ |
| Capacity control | | Fixed | | For air-to-water heat pumps: Rated air flow rate, outdoors | - | na | m3/ |
| Lound power level, indoors/ | L _{WA} | 50/na | dB | For water-/brine-to-water heat pumps: Rated brine or water | | | 1 |
| Annual energy consumption | Q _{HE} | 4905 | kWh | flow rate, outdoor heat exchanger | - | 2,1 | m3/ |
| or heat pump combination he | ater: | | | | | | · |
| Declared load profile/ | | L/A | | Water heating energy | η_{wh} | 86 | % |
| nergy efficiency class | | - / A | 1 | efficiency | lwh | 00 | 70 |
| Daily electricity consumption | Qelec | 5,434 | kWh | Daily fuel consumption | Qfuel | na | kWl |
| Annual electricity consumption | AEC | 1195 | kWh | Annual fuel consumption | AFC | na | GJ |
| Specific precautions and end of life information: | | end of the product | 's life cycle, it must e product's refrige | recycling station or with the installation engi t be sent correctly to a waste station or reselle rant, compressor oil and electrical/electronic | er offering a servio | ce of that type. t | is of grea |

Information for heat pump space heaters and heat pump combination heaters Warm climate and Low temperature



| Warm climate and Low tem | perature | | | | Ljungby | | |
|--|--------------------|--------------------------|---|---|----------------------|-------------------|----------------|
| Model(s): | | CTC EcoPart 41 | 2 + CTC EcoZe | nith i255 | | | |
| Air-to-water heat pump: | | No | | Energy efficiency class: | | - | |
| Water-to-water heat pump: | | No | | Controller class: | VII | - | |
| Brine-to-water heat pump: | | Yes | | Controller contribution: | 3,5 | % | |
| Low-temperature heat pump: | | No | | Package efficiency: | 154 | % | |
| Equipped with a supplementary | heater: | Yes | | Package efficiency class: | | - | |
| Heat pump combination heater | | Yes | | | | | |
| | | | ion, except for | r low-temperature heat pumps. For | low- tempera | ture heat pu | mps, |
| parameters shall be declared fo | | | | | | | |
| Item | Symbol | Value | Unit | Item | Symbol | Value | Uni |
| Rated heat output (*) | Prated | 13 | kW | Seasonal space heating energy efficiency | η _s | 150 | % |
| Declared capacity for heating fo outdoor temperature T j | or part load at ir | idoor temperatu | re 20 °C and | Declared coefficient of performa part load at indoor temperature | | | |
| Г ј = — 7 °С | Pdh | na | kW | T j = – 7 °C | COPd | na |] - |
| г ј = + 2 °С | Pdh | 11,9 | kW | T j = +2 °C | COPd | 4,11 | 1 - |
| Г ј = + 7 °С | Pdh | 12,0 | kW | T j = +7 °C | COPd | 4,30 |] - |
| Г ј = + 12 °С | Pdh | 12,1 | kW | T j = +12 °C | COPd | 4,54 | - [|
| Γ j = bivalent temperature | Pdh | 11,9 | kW | T j = bivalent temperature | COPd | 4,17 | - |
| T j = operation limit temperature | Pdh | 11,9 | kW | T j = operation limit temperature | COPd | 4,11 | - |
| For air-to-water heat pumps: T j = – 15 °C (if TOL < – 20 °C) | Pdh | na | kW | For air-to-water heat pumps: T j = – 15 °C (if TOL < – 20 °C) | COPd | na | - |
| Bivalent temperature | T _{biv} | 3 | °C | For air-to-water heat pumps: Operation limit temperature | TOL | na | °C |
| Cycling interval capacity for heating | P _{cych} | na | kW | Cycling interval efficiency | СОРсус | na | - |
| Degradation co-efficient | Cdh | 0,95 | - | Heating water operating limit temperature | WTOL | 65 | °C |
| Power consumption in modes o | ther than active | e mode | | Supplementary heater | | | _ |
| Off mode | P _{OFF} | 0,018 | kW | Rated heat output | Psup | 0,9 | kW |
| hermostat-off mode | Р _{то} | 0,018 | kW | | | | |
| Standby mode | P _{SB} | 0,018 | kW | Type of energy input | | Electric | |
| Crankcase heater mode | Р _{СК} | 0,000 | kW | | | | |
| Other items | | | • | | | | - |
| Capacity control | | Fixed | | For air-to-water heat pumps: Rated air flow rate, outdoors | - | na | m3/ |
| Sound power level, indoors/ | L _{WA} | 50/na | dB | For water-/brine-to-water heat pumps: Rated brine or water | | | |
| Annual energy consumption | Q _{HE} | 4331 | kWh | flow rate, outdoor heat exchanger | - | 2,6 | m3/ |
| For heat pump combination hea | ater: | | | | | | |
| Declared load profile/ | | L/A | | Water heating energy | η_{wh} | 86 | % |
| Energy efficiency class | | -, | 1 | efficiency | • IWN | | - [~] |
| Daily electricity consumption | Qelec | 5,434 | kWh | Daily fuel consumption | Qfuel | na | kW |
| Annual electricity consumption | AEC | 1195 | kWh | Annual fuel consumption | AFC | na | GJ |
| Specific precautions and end of life information: | | end of the product | 's life cycle, it must e product's refrige | recycling station or with the installation engine to sent correctly to a waste station or reseller rant, compressor oil and electrical/electronic | er offering a servio | e of that type. t | is of grea |
| | | ما محاد المحاد ما ما الم | 1 1 1 1 1 1 1 | | | | |

Information for heat pump space heaters and heat pump combination heaters Average climate and Medium temperature



| Model(s): Air-to-water heat pump: Water-to-water heat pump: Brine-to-water heat pump: Low-temperature heat pump: Equipped with a supplementary Heat pump combination heater: Parameters shall be declared for parameters shall be declared for Item | | CTC EcoPart 41 No No | 2 + CTC EcoZe | nith i255 Energy efficiency class: | A+ | - | |
|--|-------------------|----------------------------|---|---|----------------------|-------------------|-------------|
| Water-to-water heat pump: Brine-to-water heat pump: Low-temperature heat pump: Equipped with a supplementary Heat pump combination heater: Parameters shall be declared for parameters shall be declared for | | No | | Energy efficiency class: | A+ | - | |
| Brine-to-water heat pump: Low-temperature heat pump: Equipped with a supplementary Heat pump combination heater: Parameters shall be declared for parameters shall be declared for | | | | | | | |
| Low-temperature heat pump: Equipped with a supplementary Heat pump combination heater Parameters shall be declared for parameters shall be declared for | h | Voc | | Controller class: | VII | - | |
| Equipped with a supplementary Heat pump combination heaters Parameters shall be declared for parameters shall be declared for | | Yes | | Controller contribution: | 3,5 | % | |
| Heat pump combination heater: Parameters shall be declared for parameters shall be declared for | h t . | No | | Package efficiency: | 136 | % | |
| Parameters shall be declared for parameters shall be declared for parameters shall be declared for parameters shall be declared for parameters and parameters and param | neater: | Yes | | Package efficiency class: | A++ | - | |
| parameters shall be declared for | | Yes | | | | | |
| • | | | ion, except for | r low-temperature heat pumps. For | low- tempera | ture heat pu | mps, |
| ltem | | | | | | | |
| | Symbol | Value | Unit | Item | Symbol | Value | Unit |
| Rated heat output (*) | Prated | 13 | kW | Seasonal space heating energy efficiency | η _s | 132 | % |
| Declared capacity for heating fo outdoor temperature T j | r part load at in | door temperatur | re 20 °C and | Declared coefficient of perform part load at indoor temperature | | | |
| Г ј = – 7 °С | Pdh | 10,9 | kW | T j = – 7 °C | COPd | 3,11 |] - |
| Г ј = + 2 °С | Pdh | 11,3 | kW | T j = +2 °C | COPd | 3,57 |] - |
| Г ј = + 7 °С | Pdh | 11,3 | kW | T j = +7 °C | COPd | 3,87 |] - |
| T j = + 12 °C | Pdh | 11,5 | kW | T j = +12 °C | COPd | 4,23 | - |
| T j = bivalent temperature | Pdh | 11,0 | kW | T j = bivalent temperature | COPd | 3,16 | - |
| T j = operation limit temperature | Pdh | 10,8 | kW | T j = operation limit temperature | COPd | 2,93 | - |
| For air-to-water heat pumps: T j = – 15 °C (if TOL < – 20 °C) | Pdh | na | kW | For air-to-water heat pumps: T j = – 15 °C (if TOL < – 20 °C) | COPd | na | - |
| Bivalent temperature | T _{biv} | -6 | °C | For air-to-water heat pumps: Operation limit temperature | TOL | na | °C |
| Cycling interval capacity for heating | P _{cych} | na | kW | Cycling interval efficiency | СОРсус | na |] - |
| Degradation co-efficient | Cdh | 0,99 | - | Heating water operating limit temperature | WTOL | 65 | °C |
| Power consumption in modes o | ther than active | mode | | Supplementary heater | | | - |
| Off mode | P _{OFF} | 0,018 | kW | Rated heat output | Psup | 2,1 | kW |
| Thermostat-off mode | P _{TO} | 0,018 | kW | | | | |
| Standby mode | P _{SB} | 0,018 | kW | Type of energy input | | Electric | |
| Crankcase heater mode | Р _{СК} | 0,000 | kW | | | | |
| Other items | | | | | | | _ |
| Capacity control | | Fixed | | For air-to-water heat pumps: Rated air flow rate, outdoors | - | na | m3/h |
| Sound power level, indoors/ putdoors | L _{WA} | 50/na | dB | For water-/brine-to-water heat pumps: Rated brine or water | | | 1 |
| Annual energy consumption | Q _{HE} | 7652 | kWh | flow rate, outdoor heat exchanger | - | 2,1 | m3/h |
| For heat pump combination hea | | | | Tevenanger | | 1 | |
| Declared load profile/ | | 1/4 | | Water heating energy | n | | |
| Energy efficiency class | | L/A | | efficiency | η_{wh} | 86 | % |
| Daily electricity consumption | Qelec | 5,434 | kWh | Daily fuel consumption | Qfuel | na | kWh |
| Annual electricity consumption | AEC | 1195 | kWh | Annual fuel consumption | AFC | na | GJ |
| Specific precautions and end of life information: | | end of the product's | s life cycle, it mus product's refrige | a recycling station or with the installation enging t be sent correctly to a waste station or reseller rant, compressor oil and electrical/electronic not permitted. | er offering a servio | e of that type. t | is of great |
| Contact details C | TC AB, Näsväge | n 8, SE-341 34 Lj | | | | | 231218 |

Information for heat pump space heaters and heat pump combination heaters Average climate and Low temperature



| Average climate and Low te | emperature | | | | Ljungby | | |
|--|--------------------|---------------------|----------------------|---|---------------------------|-------------------|-------------|
| Model(s): | | CTC EcoPart 41 | .2 + CTC EcoZe | enith i255 | | | |
| Air-to-water heat pump: | | No | | Energy efficiency class: | A++ | - | |
| Water-to-water heat pump: | | No | | Controller class: | VII | - | |
| Brine-to-water heat pump: | | Yes | | Controller contribution: | 3,5 | % | |
| Low-temperature heat pump: | | No | | Package efficiency: | 159 | % | |
| Equipped with a supplementar | y heater: | Yes | | Package efficiency class: | A++ | - | |
| Heat pump combination heate | | Yes | | | | | |
| | | | ion, except for | r low-temperature heat pumps. For | ⁻ low- tempera | ture heat pu | mps, |
| parameters shall be declared for | | | | | | | |
| Item | Symbol | Value | Unit | Item | Symbol | Value | Unit |
| Rated heat output (*) | Prated | 14 | kW | Seasonal space heating energy efficiency | η _s | 155 | % |
| Declared capacity for heating for beating for the second sec | or part load at in | idoor temperatu | re 20 °C and | Declared coefficient of perform part load at indoor temperature | • | | |
| Г ј = — 7 °С | Pdh | 11,9 | kW | T j = – 7 °C | COPd | 4,19 |] - |
| Г ј = + 2 °С | Pdh | 12,0 | kW | T j = +2 °C | COPd | 4,36 | 1 - |
| Г ј = + 7 °С | Pdh | 12,1 | kW | T j = +7 °C | COPd | 4,50 |] - |
| Г ј = + 12 °С | Pdh | 12,2 | kW | T j = +12 °C | COPd | 4,64 | - |
| Γ j = bivalent temperature | Pdh | 11,9 | kW | T j = bivalent temperature | COPd | 4,21 | - |
| T j = operation limit temperature | Pdh | 11,9 | kW | T j = operation limit temperature | COPd | 4,11 | - |
| For air-to-water heat pumps: T j = – 15 °C (if TOL < – 20 °C) | Pdh | na | kW | For air-to-water heat pumps: T j = - 15 °C (if TOL < - 20 °C) | COPd | na | - |
| Bivalent temperature | T _{biv} | -6 | °C | For air-to-water heat pumps: Operation limit temperature | TOL | na | °C |
| Cycling interval capacity for heating | P _{cych} | na | kW | Cycling interval efficiency | СОРсус | na | - |
| Degradation co-efficient | Cdh | 0,95 | - | Heating water operating limit temperature | WTOL | 65 | °C |
| Power consumption in modes of | other than active | e mode | • | Supplementary heater | | - | - |
| Off mode | P _{OFF} | 0,018 | kW | Rated heat output | Psup | 2,2 | kW |
| Thermostat-off mode | Р _{то} | 0,018 | kW | | | | |
| Standby mode | P _{SB} | 0,018 | kW | Type of energy input | | Electric | |
| Crankcase heater mode | Р _{СК} | 0,000 | kW | | | | |
| Other items | | | · | | | | - |
| Capacity control | | Fixed | | For air-to-water heat pumps: Rated air flow rate, outdoors | - | na | m3/h |
| Sound power level, indoors/ | L _{WA} | 50/na | dB | For water-/brine-to-water heat pumps: Rated brine or water | | | 1 |
| Annual energy consumption | Q _{HE} | 7153 | kWh | flow rate, outdoor heat exchanger | - | 2,6 | m3/h |
| For heat pump combination he | ater: | | | | | | |
| Declared load profile/ | | L/A | | Water heating energy | η_{wh} | 86 | % |
| Energy efficiency class | | | | efficiency | IWII | | - |
| Daily electricity consumption | Qelec | 5,434 | kWh | Daily fuel consumption | Qfuel | na | kWh |
| Annual electricity consumption | AEC | 1195 | kWh | Annual fuel consumption | AFC | na | GJ |
| Specific precautions and end of life information: | | end of the product' | s life cycle, it mus | a recycling station or with the installation eng t be sent correctly to a waste station or resell grant, compressor oil and electrical/electronic | er offering a servio | e of that type. t | is of great |

Information for heat pump space heaters and heat pump combination heaters **Cold climate and Medium temperature**



| Cold climate and Medium to | emperature | | | | Ljungby | | |
|--|--------------------|--------------------|---|--|----------------------|-------------------|-------------|
| Model(s): | | CTC EcoPart 41 | L2 + CTC EcoZe | nith i255 | | | |
| Air-to-water heat pump: | | No | | Energy efficiency class: | | - | |
| Water-to-water heat pump: | | No | | Controller class: | VII | - | |
| Brine-to-water heat pump: | | Yes | | Controller contribution: | 3,5 | % | |
| Low-temperature heat pump: | | No | | Package efficiency: | 129 | % | |
| Equipped with a supplementary | y heater: | Yes | | Package efficiency class: | | - | |
| Heat pump combination heater | r: | Yes | | | | | |
| | | | ion, except for | r low-temperature heat pumps. For | low- tempera | ture heat pu | mps, |
| parameters shall be declared for | | ure application. | | | | | |
| Item | Symbol | Value | Unit | Item | Symbol | Value | Unit |
| Rated heat output (*) | Prated | 13 | kW | Seasonal space heating energy efficiency | n _s | 125 | % |
| Declared capacity for heating fo outdoor temperature T j | or part load at in | door temperatu | re 20 °C and | Declared coefficient of performa part load at indoor temperature | | | |
| Г ј = – 7 °С | Pdh | 11,4 | kW | T j = − 7 °C | COPd | 3,24 | 1. |
| Г ј = + 2 °С | Pdh | 11,6 | kW | T j = +2 °C | COPd | 3,56 | 1 - |
| г ј = + 7 °С | Pdh | 11,8 | kW | T j = +7 °C | COPd | 3,85 | - 1 |
| Г ј = + 12 °С | Pdh | 11,9 | kW | T j = +12 °C | COPd | 4,06 | - |
| ī j = bivalent temperature | Pdh | 11,1 | kW | T j = bivalent temperature | COPd | 3,00 |] - |
| T j = operation limit temperature | Pdh | 10,9 | kW | T j = operation limit temperature | COPd | 2,81 |] - |
| For air-to-water heat pumps: F j = – 15 °C (if TOL < – 20 °C) | Pdh | na | kW | For air-to-water heat pumps: T j = – 15 °C (if TOL < – 20 °C) | COPd | na | - |
| Bivalent temperature | T _{biv} | -17 | °C | For air-to-water heat pumps: Operation limit temperature | TOL | na | °C |
| Cycling interval capacity for neating | P _{cych} | na | kW | Cycling interval efficiency | СОРсус | na | - |
| Degradation co-efficient | Cdh | 0,98 | - | Heating water operating limit temperature | WTOL | 65 | °C |
| Power consumption in modes of | other than active | mode | | Supplementary heater | | | |
| Off mode | P _{OFF} | 0,018 | kW | Rated heat output | Psup | 1,9 | kW |
| Thermostat-off mode | Р _{то} | 0,018 | kW | | | | |
| Standby mode | P _{SB} | 0,018 | kW | Type of energy input | | Electric | |
| Crankcase heater mode | Р _{СК} | 0,000 | kW | | | | |
| Other items | | | | | ÷ | | |
| Capacity control | | Fixed | | For air-to-water heat pumps: Rated air flow rate, outdoors | - | na | m3/I |
| Sound power level, indoors/ | L _{WA} | 50/na | dB | For water-/brine-to-water heat pumps: Rated brine or water | | |] |
| Annual energy consumption | Q _{HE} | 9526 | kWh | flow rate, outdoor heat exchanger | - | 2,1 | m3/l |
| For heat pump combination he | ater: | | | | | | |
| Declared load profile/ | | L/A | | Water heating energy | η_{wh} | 86 | % |
| Energy efficiency class | | -/ - | | efficiency | ' Iwh | 00 | |
| Daily electricity consumption | Qelec | 5,434 | kWh | Daily fuel consumption | Qfuel | na | kWh |
| Annual electricity consumption | AEC | 1195 | kWh | Annual fuel consumption | AFC | na | GJ |
| Specific precautions and end of life information: | | end of the product | 's life cycle, it must e product's refrige | recycling station or with the installation engine t be sent correctly to a waste station or reselle rant, compressor oil and electrical/electronic | er offering a servio | e of that type. t | is of great |

Information for heat pump space heaters and heat pump combination heaters **Cold climate and Low temperature**



| Cold climate and Low temp | erature | | | | Ljungby | | |
|--|------------------------|---------------------|---|---|----------------------|-------------------|-------------|
| Model(s): | | CTC EcoPart 41 | 2 + CTC EcoZe | nith i255 | | | |
| Air-to-water heat pump: | | No | | Energy efficiency class: | | - | |
| Water-to-water heat pump: | | No | | Controller class: | VII | - | |
| Brine-to-water heat pump: | | Yes | | Controller contribution: | 3,5 | % | |
| Low-temperature heat pump: | | No | | Package efficiency: | 160 | % | |
| Equipped with a supplementar | ry heater: | Yes | | Package efficiency class: | | - | |
| Heat pump combination heate | | Yes | | | | | |
| | | | ion, except for | r low-temperature heat pumps. For | low- tempera | ture heat pu | mps, |
| parameters shall be declared f | | | 11 | lt | Cumphiel | Value | 11 |
| Item | Symbol | Value | Unit | Item | Symbol | Value | Unit |
| Rated heat output (*) | Prated | 13 | kW | Seasonal space heating energy efficiency | η _s | 156 | % |
| Declared capacity for heating f outdoor temperature T j | for part load at ir | idoor temperatu | re 20 °C and | Declared coefficient of performa part load at indoor temperature | | | |
| T j = − 7 °C | Pdh | 12,0 | kW | T j = − 7 °C | COPd | 4,37 |] - |
| T j = + 2 °C | Pdh | 12,1 | kW | T j = +2 °C | COPd | 4,50 | - 1 |
| T j = + 7 °C | Pdh | 12,1 | kW | T j = +7 °C | COPd | 4,60 | - |
| T j = + 12 °C | Pdh | 12,2 | kW | T j = +12 °C | COPd | 4,62 | - |
| T j = bivalent temperature | Pdh | 11,9 | kW | T j = bivalent temperature | COPd | 4,21 | - |
| T j = operation limit | Pdh | 11,9 | kW | T j = operation limit | COPd | 4,11 | - |
| temperature | | - | - | temperature | | , | - |
| For air-to-water heat pumps: T j = – 15 °C (if TOL < – 20 °C) | Pdh | na | kW | For air-to-water heat pumps: T j = – 15 °C (if TOL < – 20 °C) | COPd | na | - |
| Bivalent temperature | T _{biv} | -18 | °C | For air-to-water heat pumps: Operation limit temperature | TOL | na | °C |
| Cycling interval capacity for heating | P _{cych} | na | kW | Cycling interval efficiency | СОРсус | na | - |
| Degradation co-efficient | Cdh | 0,95 | - | Heating water operating limit temperature | WTOL | 65 | °C |
| Power consumption in modes | other than active | e mode | | Supplementary heater | | | • |
| Off mode | P _{OFF} | 0,018 | kW | Rated heat output | Psup | 1,5 | kW |
| Thermostat-off mode | Р _{то} | 0,018 | kW | | | | • |
| Standby mode | P _{SB} | 0,018 | kW | Type of energy input | | Electric | |
| Crankcase heater mode | Р _{СК} | 0,000 | kW | | | | |
| Other items | | • | | | | | |
| Capacity control | | Fixed | | For air-to-water heat pumps: Rated air flow rate, outdoors | - | na | m3/h |
| I Sound power level, indoors/ outdoors | L _{WA} | 50/na | dB | For water-/brine-to-water heat pumps: Rated brine or water | | | |
| Annual energy consumption | Q _{HE} | 8028 | kWh | flow rate, outdoor heat exchanger | - | 2,6 | m3/h |
| For heat pump combination he | eater: | • | | | | | 1 |
| Declared load profile/ | | L/A | | Water heating energy | n | 86 | % |
| Energy efficiency class | | -/ ~ | 1 | efficiency | η_{wh} | 00 | /0 |
| Daily electricity consumption | Qelec | 5,434 | kWh | Daily fuel consumption | Qfuel | na | kWh |
| Annual electricity consumption | AEC | 1195 | kWh | Annual fuel consumption | AFC | na | GJ |
| Specific precautions and end of life information: | | end of the product' | s life cycle, it mus e product's refrige | a recycling station or with the installation engin t be sent correctly to a waste station or reselle rant, compressor oil and electrical/electronic of not permitted | er offering a servic | e of that type. t | is of great |
| Contact details | CTC AB. Näsväge | en 8, SE-341 34 Lj | | | | | 231218 |
| | , | -, - | 0.7.10.110 | | | | |

Information for heat pump space heaters and heat pump combination heaters Warm climate and Medium temperature



| Warm climate and Medium | temperature | | | | Ljungby | | |
|--|--------------------|--------------------|-----------------------|---|--------------------|--------------------|-------------|
| Model(s): | | CTC EcoPart 41 | L2 + CTC EcoZe | nith i555 | | | |
| Air-to-water heat pump: | | No | | Energy efficiency class: | | - | |
| Water-to-water heat pump: | | No | | Controller class: | VII | - | |
| Brine-to-water heat pump: | | Yes | | Controller contribution: | 3,5 | % | |
| Low-temperature heat pump: | | No | | Package efficiency: | 126 | % | |
| Equipped with a supplementar | y heater: | Yes | | Package efficiency class: | | - | |
| Heat pump combination heater Parameters shall be declared for parameters shall be declared for | or medium-temp | | ion, except for | r low-temperature heat pumps. For | low- tempera | ature heat pu | mps, |
| ltem | Symbol | Value | Unit | Item | Symbol | Value | Unit |
| Rated heat output (*) | Prated | 12 | kW | Seasonal space heating energy efficiency | η _s | 122 | % |
| Declared capacity for heating fo outdoor temperature T j | or part load at in | door temperatu | re 20 °C and | Declared coefficient of performa part load at indoor temperature | | | |
| Г ј = — 7 °С | Pdh | na | kW | T j = − 7 °C | COPd | na |] - |
| ∫ j = + 2 °C | Pdh | 10,9 | kW | T j = +2 °C | COPd | 2,81 | 1 - |
| г ј = + 7 °С | Pdh | 11,3 | kW | T j = +7 °C | COPd | 3,14 |] - |
| j = + 12 °C | Pdh | 11,7 | kW | T j = +12 °C | COPd | 3,72 |] - |
| ī j = bivalent temperature | Pdh | 11,0 | kW | T j = bivalent temperature | COPd | 2,90 | - |
| T j = operation limit temperature | Pdh | 10,9 | kW | T j = operation limit temperature | COPd | 2,81 |] - |
| For air-to-water heat pumps: Γ j = – 15 °C (if TOL < – 20 °C) | Pdh | na | kW | For air-to-water heat pumps: T j = – 15 °C (if TOL < – 20 °C) | COPd | na | - |
| Bivalent temperature | T _{biv} | 3 | °C | For air-to-water heat pumps: Operation limit temperature | TOL | na | °C |
| Cycling interval capacity for neating | P _{cych} | na | kW | Cycling interval efficiency | СОРсус | na | - |
| Degradation co-efficient | Cdh | 0,99 | - | Heating water operating limit temperature | WTOL | 65 | °C |
| Power consumption in modes of | other than active | mode | | Supplementary heater | | | |
| Off mode | P _{OFF} | 0,018 | kW | Rated heat output | Psup | 0,9 | kW |
| hermostat-off mode | Р _{то} | 0,025 | kW | | - | | |
| Standby mode | P _{SB} | 0,018 | kW | Type of energy input | | Electric | |
| Crankcase heater mode | Р _{СК} | 0,000 | kW | | | | |
| Other items | | | | | | | - |
| Capacity control | | Fixed | | For air-to-water heat pumps: Rated air flow rate, outdoors | - | na | m3/I |
| Lound power level, indoors/ | L _{WA} | 50/na | dB | For water-/brine-to-water heat pumps: Rated brine or water | | | |
| Annual energy consumption | Q _{HE} | 4879 | kWh | flow rate, outdoor heat exchanger | - | 2,1 | m3/ |
| or heat pump combination he | ater: | | • | | | | <u>.</u> |
| Declared load profile/ | | XL/A | | Water heating energy | η_{wh} | 100 | % |
| nergy efficiency class | | | r | efficiency | • Iwh | 100 | - 7 |
| Daily electricity consumption | Qelec | 7,620 | kWh | Daily fuel consumption | Qfuel | NA | kWł |
| Annual electricity consumption | AEC | 1676 | kWh | Annual fuel consumption | AFC | NA | GJ |
| Specific precautions and end of life information: | | end of the product | 's life cycle, it mus | a recycling station or with the installation engin t be sent correctly to a waste station or reselle rant, compressor oil and electrical/electronic e | r offering a servi | ce of that type. t | is of great |

Information for heat pump space heaters and heat pump combination heaters Warm climate and Low temperature



| Model(s): Air-to-water heat pump: Water-to-water heat pump: Brine-to-water heat pump: Low-temperature heat pump: | | CTC EcoPart 41 | 2 + CTC EcoZe | enith i555 Energy efficiency class: | | | |
|--|------------------------|---------------------|--|---|----------------------|-------------------|-------------|
| Water-to-water heat pump: Brine-to-water heat pump: | | | | Energy efficiency class: | | | |
| Brine-to-water heat pump: | | | | Energy enherency class. | | - | |
| | | No | | Controller class: | VII | - | |
| Low-temperature heat pump: | | Yes | | Controller contribution: | 3,5 | % | |
| | | No | | Package efficiency: | 158 | % | |
| Equipped with a supplementary | heater: | Yes | | Package efficiency class: | | - | |
| Heat pump combination heater: | | Yes | | | | | |
| | | | ion, except for | r low-temperature heat pumps. For | low- tempera | ture heat pu | mps, |
| parameters shall be declared for | | | | | | | |
| Item | Symbol | Value | Unit | ltem | Symbol | Value | Unit T |
| Rated heat output (*) | Prated | 13 | kW | Seasonal space heating energy efficiency | η _s | 154 | % |
| Declared capacity for heating for outdoor temperature T j | r part load at in | door temperatu | re 20 °C and | Declared coefficient of performation part load at indoor temperature | • | | |
| Г ј = – 7 °С | Pdh | na | kW | T j = − 7 °C | COPd | na |] - |
| Г ј = + 2 °С | Pdh | 11,9 | kW | T j = +2 °C | COPd | 4,11 | 1 - |
| Г ј = + 7 °С | Pdh | 12,0 | kW | T j = +7 °C | COPd | 4,30 |] - |
| Г ј = + 12 °С | Pdh | 12,1 | kW | T j = +12 °C | COPd | 4,54 |] - |
| Г ј = bivalent temperature | Pdh | 11,9 | kW | T j = bivalent temperature | COPd | 4,17 | - |
| T j = operation limit temperature | Pdh | 11,9 | kW | T j = operation limit temperature | COPd | 4,11 | - |
| For air-to-water heat pumps: T j = – 15 °C (if TOL < – 20 °C) | Pdh | na | kW | For air-to-water heat pumps: T j = – 15 °C (if TOL < – 20 °C) | COPd | na | - |
| Bivalent temperature | T _{biv} | 3 | °C | For air-to-water heat pumps: Operation limit temperature | TOL | na | °C |
| Cycling interval capacity for heating | P _{cych} | na | kW | Cycling interval efficiency | СОРсус | na | - |
| Degradation co-efficient | Cdh | 0,97 | - | Heating water operating limit temperature | WTOL | 65 | °C |
| Power consumption in modes ot | ther than active | mode | | Supplementary heater | | | - |
| Off mode | P _{OFF} | 0,018 | kW | Rated heat output | Psup | 0,9 | kW |
| Thermostat-off mode | Р _{то} | 0,073 | kW | | | | |
| Standby mode | P _{SB} | 0,018 | kW | Type of energy input | | Electric | |
| Crankcase heater mode | Р _{СК} | 0,000 | kW | | | | |
| Other items | | | | | • | - | - |
| Capacity control | | Fixed | | For air-to-water heat pumps: Rated air flow rate, outdoors | - | na | m3/h |
| Sound power level, indoors/ | L _{WA} | 50/na | dB | For water-/brine-to-water heat pumps: Rated brine or water | | | |
| Annual energy consumption | Q _{HE} | 4228 | kWh | flow rate, outdoor heat exchanger | - | 2,6 | m3/h |
| For heat pump combination hea | ter: | | | | | | |
| Declared load profile/ | | XL/A | | Water heating energy | η_{wh} | 100 | % |
| Energy efficiency class | | | | efficiency | | | |
| Daily electricity consumption | Qelec | 7,620 | kWh | Daily fuel consumption | Qfuel | NA | kWh |
| Annual electricity consumption | AEC | 1676 | kWh | Annual fuel consumption | AFC | NA | GJ |
| Specific precautions and end of life information: | | end of the product' | s life cycle, it must e product's refrige | a recycling station or with the installation engi t be sent correctly to a waste station or reselle rant, compressor oil and electrical/electronic not nermitted | er offering a servic | e of that type. t | is of great |

Information for heat pump space heaters and heat pump combination heaters Average climate and Medium temperature



| Average climate and Mediu | um temperatur | e | | | Ljungby | | |
|--|---------------------|---------------------|--|---|----------------------|-------------------|-------------|
| Model(s): | | CTC EcoPart 41 | 2 + CTC EcoZe | enith i555 | | | |
| Air-to-water heat pump: | | No | | Energy efficiency class: | A+ | - | |
| Water-to-water heat pump: | | No | | Controller class: | VII | - | |
| Brine-to-water heat pump: | | Yes | | Controller contribution: | 3,5 | % | |
| Low-temperature heat pump: | | No | | Package efficiency: | 127 | % | |
| Equipped with a supplementar | ry heater: | Yes | | Package efficiency class: | A++ | - | |
| Heat pump combination heate | er: | Yes | | | | | |
| | | | ion, except for | r low-temperature heat pumps. For | r low- tempera | ture heat pu | mps, |
| parameters shall be declared f | • | | | | | | |
| Item | Symbol | Value | Unit | Item | Symbol | Value | Unit |
| Rated heat output (*) | Prated | 13 | kW | Seasonal space heating energy efficiency | η _s | 123 | % |
| Declared capacity for heating f outdoor temperature T j | for part load at in | idoor temperatu | re 20 °C and | Declared coefficient of perform part load at indoor temperature | | | |
| Г ј = — 7 °С | Pdh | 11,1 | kW | T j = − 7 °C | COPd | 2,97 |] - |
| Г ј = + 2 °С | Pdh | 11,5 | kW | T j = +2 °C | COPd | 3,32 | 1 - |
| Г ј = + 7 °С | Pdh | 11,6 | kW | T j = +7 °C | COPd | 3,63 |] - |
| Г ј = + 12 °С | Pdh | 11,8 | kW | T j = +12 °C | COPd | 3,94 | - [|
| Г ј = bivalent temperature | Pdh | 11,2 | kW | T j = bivalent temperature | COPd | 3,02 | - [|
| Γ j = operation limit temperature | Pdh | 10,9 | kW | T j = operation limit temperature | COPd | 2,81 | - |
| For air-to-water heat pumps: T j = – 15 °C (if TOL < – 20 °C) | Pdh | na | kW | For air-to-water heat pumps: T j = – 15 °C (if TOL < – 20 °C) | COPd | na | - |
| Bivalent temperature | T _{biv} | -6 | °C | For air-to-water heat pumps: Operation limit temperature | TOL | na | °C |
| Cycling interval capacity for neating | P _{cych} | na | kW | Cycling interval efficiency | СОРсус | na | - |
| Degradation co-efficient | Cdh | 0,99 | - | Heating water operating limit temperature | WTOL | 65 | °C |
| Power consumption in modes | other than active | mode | | Supplementary heater | | | |
| Off mode | P _{OFF} | 0,018 | kW | Rated heat output | Psup | 2,3 | kW |
| Thermostat-off mode | Р _{то} | 0,025 | kW | | | | |
| Standby mode | P _{SB} | 0,018 | kW | Type of energy input | | Electric | |
| Crankcase heater mode | Р _{СК} | 0,000 | kW | | | | |
| Other items | | | | | | | |
| Capacity control | | Fixed | | For air-to-water heat pumps: Rated air flow rate, outdoors | - | na | m3/h |
| l Sound power level, indoors/ outdoors | L _{WA} | 50/na | dB | For water-/brine-to-water heat pumps: Rated brine or water | | | |
| Annual energy consumption | Q _{HE} | 7388 | kWh | flow rate, outdoor heat exchanger | - | 2,1 | m3/h |
| or heat pump combination he | eater: | | | | | | |
| Declared load profile/ | | XL/A | | Water heating energy | η_{wh} | 100 | % |
| Energy efficiency class | | //s/ rt | r | efficiency | ' Iwh | 100 | |
| Daily electricity consumption | Qelec | 7,620 | kWh | Daily fuel consumption | Qfuel | NA | kWh |
| Annual electricity consumption | AEC | 1676 | kWh | Annual fuel consumption | AFC | NA | GJ |
| Specific precautions and end of life information: | | end of the product' | 's life cycle, it mus e product's refrige | a recycling station or with the installation eng t be sent correctly to a waste station or resell rrant, compressor oil and electrical/electronic not permitted. | er offering a servic | e of that type. t | is of great |
| Contact details | CTC AB, Näsväge | en 8, SE-341 34 Lj | | | | | 231218 |

Information for heat pump space heaters and heat pump combination heaters Average climate and Low temperature



| Average climate and Low te | mperature | | | | Ljungby | | |
|--|--------------------|--|---|--|----------------------|-------------------|-------------|
| Model(s): | | CTC EcoPart 41 | 2 + CTC EcoZe | nith i555 | | | |
| Air-to-water heat pump: | | No | | Energy efficiency class: | A++ | - | |
| Water-to-water heat pump: | | No | | Controller class: | VII | - | |
| Brine-to-water heat pump: | | Yes | | Controller contribution: | 3,5 | % | |
| Low-temperature heat pump: | | No | | Package efficiency: | 16 2 | % | |
| Equipped with a supplementary | y heater: | Yes | | Package efficiency class: | A++ | - | |
| Heat pump combination heater | | Yes | | | | | |
| | | | ion, except for | r low-temperature heat pumps. For | low- tempera | ture heat pu | mps, |
| parameters shall be declared fo | • | | | | <u> </u> | | |
| Item | Symbol | Value | Unit | Item | Symbol | Value | Unit |
| Rated heat output (*) | Prated | 13 | kW | Seasonal space heating energy efficiency | η _s | 158 | % |
| Declared capacity for heating fo outdoor temperature T j | or part load at in | door temperatu | re 20 °C and | Declared coefficient of perform part load at indoor temperature | | | |
| Г ј = – 7 °С | Pdh | 11,9 | kW | T j = – 7 °C | COPd | 4,19 | 1 - |
| Г ј = + 2 °С | Pdh | 12,0 | kW | T j = +2 °C | COPd | 4,34 | 1 - |
| Г ј = + 7 °С | Pdh | 12,1 | kW | T j = +7 °C | COPd | 4,49 |] - |
| Г ј = + 12 °С | Pdh | 12,2 | kW | T j = +12 °C | COPd | 4,64 | - 1 |
| Γ j = bivalent temperature | Pdh | 11,9 | kW | T j = bivalent temperature | COPd | 4,19 | - |
| T j = operation limit temperature | Pdh | 11,9 | kW | T j = operation limit temperature | COPd | 4,11 | - 1 |
| For air-to-water heat pumps: F j = – 15 °C (if TOL < – 20 °C) | Pdh | na | kW | For air-to-water heat pumps: T j = – 15 °C (if TOL < – 20 °C) | COPd | na | - |
| Bivalent temperature | T _{biv} | -7 | °C | For air-to-water heat pumps: Operation limit temperature | TOL | na | °C |
| Cycling interval capacity for neating | P _{cych} | na | kW | Cycling interval efficiency | СОРсус | na |] - |
| Degradation co-efficient | Cdh | 0,97 | - | Heating water operating limit temperature | WTOL | 65 | °C |
| Power consumption in modes o | other than active | mode | | Supplementary heater | | | - |
| Off mode | P _{OFF} | 0,002 | kW | Rated heat output | Psup | 1,6 | kW |
| Thermostat-off mode | Р _{то} | 0,073 | kW | | | | |
| Standby mode | P _{SB} | 0,018 | kW | Type of energy input | | Electric | |
| Crankcase heater mode | Р _{СК} | 0,000 | kW | | | | |
| Other items | | | | | | | _ |
| Capacity control | | Fixed | | For air-to-water heat pumps: Rated air flow rate, outdoors | - | na | m3/h |
| L Sound power level, indoors/ outdoors | L _{WA} | 50/na | dB | For water-/brine-to-water heat pumps: Rated brine or water | | | |
| Annual energy consumption | Q _{HE} | 6728 | kWh | flow rate, outdoor heat exchanger | - | 2,6 | m3/h |
| For heat pump combination hea | ater: | | | | | | |
| Declared load profile/ | | XL/A | | Water heating energy | η_{wh} | 100 | % |
| Energy efficiency class | | | | efficiency | - Iwn | | ļ |
| Daily electricity consumption | Qelec | 7,620 | kWh | Daily fuel consumption | Qfuel | NA | kWh |
| Annual electricity consumption | AEC | 1676 | kWh | Annual fuel consumption | AFC | NA | GJ |
| Specific precautions and end of life information: | | end of the product's importance that the | s life cycle, it mus e product's refrige | a recycling station or with the installation enging t be sent correctly to a waste station or reselled rant, compressor oil and electrical/electronic and permitted | er offering a servio | e of that type. t | is of great |
| Contact details (| CTC AB, Näsväge | of the product as ho | | not permitted. | | | |

Information for heat pump space heaters and heat pump combination heaters **Cold climate and Medium temperature**



| Cold climate and Medium t | emperature | | | | Ljungby | | |
|--|--------------------|--------------------|--|---|----------------------|-------------------|-------------|
| Model(s): | | CTC EcoPart 4 | 12 + CTC EcoZe | enith i555 | | | |
| Air-to-water heat pump: | | No | | Energy efficiency class: | | - | |
| Water-to-water heat pump: | | No | | Controller class: | VII | - | |
| Brine-to-water heat pump: | | Yes | | Controller contribution: | 3,5 | % | |
| Low-temperature heat pump: | | No | | Package efficiency: | 129 | % | |
| Equipped with a supplementar | y heater: | Yes | | Package efficiency class: | | - | |
| Heat pump combination heate | r: | Yes | | | | | |
| | | | tion, except for | r low-temperature heat pumps. For | low- tempera | ture heat pu | mps, |
| parameters shall be declared for | | | | | | | |
| Item | Symbol | Value | Unit | Item | Symbol | Value | Unit |
| Rated heat output (*) | Prated | 12 | kW | Seasonal space heating energy efficiency | n _s | 125 | % |
| Declared capacity for heating for heating for the structure T j | or part load at in | door temperatu | ire 20 °C and | Declared coefficient of performa part load at indoor temperature | | | |
| Г ј = – 7 °С | Pdh | 11,4 | kW | T j = − 7 °C | COPd | 3,23 | 1 - |
| Г ј = + 2 °С | Pdh | 11,6 | kW | T j = +2 °C | COPd | 3,55 | 1 - |
| г ј = + 7 °С | Pdh | 11,7 | kW | T j = +7 °C | COPd | 3,84 |] - |
| Г ј = + 12 °С | Pdh | 11,9 | kW | T j = +12 °C | COPd | 4,05 | - |
| Г ј = bivalent temperature | Pdh | 11,1 | kW | T j = bivalent temperature | COPd | 2,96 |] - |
| T j = operation limit temperature | Pdh | 10,9 | kW | T j = operation limit temperature | COPd | 2,81 |] - |
| For air-to-water heat pumps: F j = – 15 °C (if TOL < – 20 °C) | Pdh | na | kW | For air-to-water heat pumps: T j = – 15 °C (if TOL < – 20 °C) | COPd | na | - |
| Bivalent temperature | T _{biv} | -18 | °C | For air-to-water heat pumps: Operation limit temperature | TOL | na | °C |
| Cycling interval capacity for neating | P _{cych} | na | kW | Cycling interval efficiency | СОРсус | na | - |
| Degradation co-efficient | Cdh | 0,99 | - | Heating water operating limit temperature | WTOL | 65 | °C |
| Power consumption in modes of | other than active | mode | | Supplementary heater | | P | |
| Off mode | P _{OFF} | 0,018 | kW | Rated heat output | Psup | 1,5 | kW |
| Thermostat-off mode | Р _{то} | 0,025 | kW | | | | |
| Standby mode | P _{SB} | 0,018 | kW | Type of energy input | | Electric | |
| Crankcase heater mode | Р _{СК} | 0,000 | kW | | | | |
| Other items | | | • | | ļ | | _ |
| Capacity control | | Fixed | | For air-to-water heat pumps: Rated air flow rate, outdoors | - | na | m3/h |
| Sound power level, indoors/ outdoors | L _{WA} | 50/na | dB | For water-/brine-to-water heat pumps: Rated brine or water | | | |
| Annual energy consumption | Q _{HE} | 9177 | kWh | flow rate, outdoor heat exchanger | - | 2,1 | m3/h |
| For heat pump combination he | ater: | | | | | | |
| Declared load profile/ | | XL/A | | Water heating energy | η_{wh} | 100 | % |
| nergy efficiency class | | // / A | | efficiency | ' Iwh | 100 | |
| Daily electricity consumption | Qelec | 7,620 | kWh | Daily fuel consumption | Qfuel | NA | kWh |
| Annual electricity consumption | AEC | 1676 | kWh | Annual fuel consumption | AFC | NA | GJ |
| Specific precautions and end of life information: | | end of the product | 's life cycle, it mus e product's refrige | a recycling station or with the installation engin t be sent correctly to a waste station or reselle rant, compressor oil and electrical/electronic e | er offering a servio | e of that type. t | is of great |

Information for heat pump space heaters and heat pump combination heaters **Cold climate and Low temperature**



| Cold climate and Low tempe | erature | | | | Ljungby | | |
|--|------------------------|---------------------|--|--|---------------------|-------------------|-------------|
| Model(s): | | CTC EcoPart 41 | 2 + CTC EcoZe | nith i555 | | | |
| Air-to-water heat pump: | | No | | Energy efficiency class: | | - | |
| Water-to-water heat pump: | | Νο | | Controller class: | VII | - | |
| Brine-to-water heat pump: | | Yes | | Controller contribution: | 3,5 | % | |
| Low-temperature heat pump: | | No | | Package efficiency: | 163 | % | |
| Equipped with a supplementary | heater: | Yes | | Package efficiency class: | | - | |
| Heat pump combination heater | | Yes | | | | | |
| | | | ion, except for | low-temperature heat pumps. For | low- tempera | ture heat pu | mps, |
| parameters shall be declared fo | • | | 11 | | C h. a l | Malua | 11 |
| Item | Symbol | Value | Unit | Item | Symbol | Value | Unit |
| Rated heat output (*) | Prated | 13 | kW | Seasonal space heating energy efficiency | n _s | 159 | % |
| Declared capacity for heating fo outdoor temperature T j | or part load at in | idoor temperatui | re 20 °C and | Declared coefficient of performa part load at indoor temperature | | | |
| Г ј = — 7 °С | Pdh | 12,0 | kW | T j = − 7 °C | COPd | 4,37 |] - |
| Г ј = + 2 °С | Pdh | 12,1 | kW | T j = +2 °C | COPd | 4,50 | - 1 |
| Г ј = + 7 °С | Pdh | 12,1 | kW | T j = +7 °C | COPd | 4,60 | - [|
| Г ј = + 12 °С | Pdh | 12,2 | kW | T j = +12 °C | COPd | 4,62 | - |
| T j = bivalent temperature | Pdh | 11,9 | kW | T j = bivalent temperature | COPd | 4,21 | - [|
| T j = operation limit temperature | Pdh | 11,9 | kW | T j = operation limit temperature | COPd | 4,11 | - |
| For air-to-water heat pumps: T j = – 15 °C (if TOL < – 20 °C) | Pdh | na | kW | For air-to-water heat pumps: T j = – 15 °C (if TOL < – 20 °C) | COPd | na | - |
| Bivalent temperature | T _{biv} | -18 | °C | For air-to-water heat pumps: Operation limit temperature | TOL | na | °C |
| Cycling interval capacity for heating | P _{cych} | na | kW | Cycling interval efficiency | СОРсус | na | - |
| Degradation co-efficient | Cdh | 0,97 | - | Heating water operating limit temperature | WTOL | 65 | °C |
| Power consumption in modes o | ther than active | e mode | | Supplementary heater | | | |
| Off mode | P _{OFF} | 0,018 | kW | Rated heat output | Psup | 1,5 | kW |
| Thermostat-off mode | Р _{то} | 0,073 | kW | | | | • |
| Standby mode | P _{SB} | 0,018 | kW | Type of energy input | | Electric | |
| Crankcase heater mode | Р _{СК} | 0,000 | kW | | | | |
| Other items | | | | | | | _ |
| Capacity control | | Fixed | | For air-to-water heat pumps: Rated air flow rate, outdoors | - | na | m3/h |
| Sound power level, indoors/ outdoors | L _{WA} | 50/na | dB | For water-/brine-to-water heat pumps: Rated brine or water | | | |
| Annual energy consumption | Q _{HE} | 7875 | kWh | flow rate, outdoor heat exchanger | - | 2,6 | m3/h |
| For heat pump combination hea | ater: | | | | | | |
| Declared load profile/ | | XL/A | | Water heating energy | η_{wh} | 100 | % |
| Energy efficiency class | | ~~/ ~ | | efficiency | ' IWN | 100 | |
| Daily electricity consumption | Qelec | 7,620 | kWh | Daily fuel consumption | Qfuel | NA | kWh |
| Annual electricity consumption | AEC | 1676 | kWh | Annual fuel consumption | AFC | NA | GJ |
| Specific precautions and end of life information: | | end of the product' | s life cycle, it must product's refrige | recycling station or with the installation engin be sent correctly to a waste station or reseller rant, compressor oil and electrical/electronic | r offering a servic | e of that type. t | is of great |
| | | | | | | | |

Information for heat pump space heaters and heat pump combination heaters Warm climate and Medium temperature



| Warm climate and Medium | temperature | | | | Ljungby | | |
|---|-------------------|---|--|---|----------------------|-------------------|-------------|
| Model(s): | | CTC EcoPart 41 | 2 + CTC Basics | styrning | | | |
| Air-to-water heat pump: | | No | | Energy efficiency class: | | - | |
| Water-to-water heat pump: | | No | | Controller class: | I. | - | |
| Brine-to-water heat pump: | | Yes | | Controller contribution: | 1 | % | |
| Low-temperature heat pump: | | No | | Package efficiency: | 138 | % | |
| Equipped with a supplementary | / heater: | No | | Package efficiency class: | | - | |
| Heat pump combination heater Parameters shall be declared fo | | No erature applicat | ion, except for | r low-temperature heat pumps. For | low- tempera | ture heat pu | mps, |
| parameters shall be declared fo | or low-temperatu | ire application. | | | - | - | - |
| Item | Symbol | Value | Unit I | Item | Symbol | Value | Unit |
| Rated heat output (*) | Prated | 12 | kW | Seasonal space heating energy efficiency | η _s | 137 | % |
| Declared capacity for heating for part load at indoor temperature 20 $^\circ C$ and outdoor temperature T j | | | | Declared coefficient of performa part load at indoor temperature | | | |
| Г ј = – 7 °С | Pdh | na | kW | T j = – 7 °C | COPd | na |] - [|
| Г ј = + 2 °С | Pdh | 13,6 | kW | T j = +2 °C | COPd | 3,08 |] - |
| Г ј = + 7 °С | Pdh | 11,1 | kW | T j = +7 °C | COPd | 3,45 | - |
| Г ј = + 12 °С | Pdh | 11,5 | kW | T j = +12 °C | COPd | 4,14 | - 1 |
| T j = bivalent temperature | Pdh | 11 | kW | T j = bivalent temperature | COPd | 3,18 | - |
| T j = operation limit temperature | Pdh | na | kW | T j = operation limit temperature | COPd | na | - |
| For air-to-water heat pumps: Γ j = – 15 °C (if TOL < – 20 °C) | Pdh | na | kW | For air-to-water heat pumps: T j = – 15 °C (if TOL < – 20 °C) | COPd | na | - |
| Bivalent temperature | T _{biv} | 3 | °C | For air-to-water heat pumps: Operation limit temperature | TOL | na | °C |
| Cycling interval capacity for neating | P _{cych} | na | kW | Cycling interval efficiency | СОРсус | na |] - |
| Degradation co-efficient | Cdh | 0,99 | - | Heating water operating limit temperature | WTOL | 65 | °C |
| Power consumption in modes o | other than active | mode | - | Supplementary heater | | | - |
| Off mode | P _{OFF} | 0,018 | kW | Rated heat output | Psup | 0,5 | kW |
| Thermostat-off mode | Р _{то} | 0,005 | kW | | | | |
| Standby mode | P _{SB} | 0,018 | kW | Type of energy input | | Electric | |
| Crankcase heater mode | Р _{СК} | 0,000 | kW | | | | |
| Other items | | | | | - | | - |
| Capacity control | | Fixed | | For air-to-water heat pumps: Rated air flow rate, outdoors | - | na | m3/h |
| Sound power level, indoors/ putdoors | L _{WA} | 50/na | dB | For water-/brine-to-water heat pumps: Rated brine or water | | | |
| Annual energy consumption | Q _{HE} | 4364 | kWh | flow rate, outdoor heat exchanger | - | 2,1 | m3/h |
| For heat pump combination he | ater: | | | | | | |
| Declared load profile | | na | | Water heating energy efficiency | η_{wh} | na | % |
| Daily electricity consumption | Qelec | na | kWh | Daily fuel consumption | Qfuel | na | kWh |
| Annual electricity consumption | AEC | na | kWh | Annual fuel consumption | AFC | na | GJ |
| Specific precautions and end of life information: | | end of the product' importance that the | 's life cycle, it mus e product's refrige | a recycling station or with the installation enging to be sent correctly to a waste station or reselled rant, compressor oil and electrical/electronic pot permitted | er offering a servic | e of that type. t | is of great |
| Contact details | | of the product as he n 8, SE-341 34 Lj | | | | | 231218 |

Information for heat pump space heaters and heat pump combination heaters Warm climate and Low temperature



| Warm climate and Low ten | nperature | | | | Ljungby | <u> </u> | |
|--|---------------------|--------------------|---|--|---------------------|-------------------|-------------|
| Model(s): | | CTC EcoPart 41 | 2 + CTC Basics | styrning | | | |
| Air-to-water heat pump: | | No | | Energy efficiency class: | | - | |
| Water-to-water heat pump: | | No | | Controller class: | 1 | - | |
| Brine-to-water heat pump: | | Yes | | Controller contribution: | 1 | % | |
| Low-temperature heat pump: | | No | | Package efficiency: | 181 | % | |
| Equipped with a supplementa | ry heater: | No | | Package efficiency class: | | - | |
| Heat pump combination heate | | No | | | | | |
| | | | ion, except for | r low-temperature heat pumps. For | low- tempera | ture heat pu | mps, |
| parameters shall be declared f | | | | | | | |
| Item | Symbol | Value | Unit | Item | Symbol | Value | Unit |
| Rated heat output (*) | Prated | 13 | kW | Seasonal space heating energy efficiency | η _s | 180 | % |
| Declared capacity for heating f outdoor temperature T j | for part load at in | idoor temperatu | re 20 °C and | Declared coefficient of performa part load at indoor temperature | | | |
| T j = − 7 °C | Pdh | na | kW | T j = − 7 °C | COPd | na |] - [|
| Г ј = + 2 °С | Pdh | 11,8 | kW | T j = +2 °C | COPd | 4,60 | 1 - |
| Г ј = + 7 °С | Pdh | 11,9 | kW | T j = +7 °C | COPd | 4,83 | - [|
| T j = + 12 °C | Pdh | 12,0 | kW | T j = +12 °C | COPd | 5,11 | - |
| T j = bivalent temperature | Pdh | 11,8 | kW | T j = bivalent temperature | COPd | 4,68 | - [|
| T j = operation limit | Pdh | na | kW | T j = operation limit | COPd | na | _ |
| temperature | , an | 110 | | temperature | 0014 | nu | |
| For air-to-water heat pumps: Γ j = – 15 °C (if TOL < – 20 °C) | Pdh | na | kW | For air-to-water heat pumps: T j = – 15 °C (if TOL < – 20 °C) | COPd | na | - |
| Bivalent temperature | T _{biv} | 3 | °C | For air-to-water heat pumps: Operation limit temperature | TOL | na | °C |
| Cycling interval capacity for heating | P _{cych} | na | kW | Cycling interval efficiency | СОРсус | na | - |
| Degradation co-efficient | Cdh | 0,98 | - | Heating water operating limit temperature | WTOL | 65 | °C |
| Power consumption in modes | other than active | e mode | | Supplementary heater | | | _ |
| Off mode | P _{OFF} | 0,018 | kW | Rated heat output | Psup | 0,9 | kW |
| Thermostat-off mode | Р _{то} | 0,022 | kW | | | | |
| Standby mode | P _{SB} | 0,018 | kW | Type of energy input | | Electric | |
| Crankcase heater mode | Р _{СК} | 0,000 | kW | | | | |
| Other items | | | | | | | |
| Capacity control | | Fixed | | For air-to-water heat pumps: Rated air flow rate, outdoors | - | na | m3/h |
| Sound power level, indoors/ outdoors | L _{WA} | 50/na | dB | For water-/brine-to-water heat pumps: Rated brine or water | | | |
| Annual energy consumption | Q _{HE} | 3618 | kWh | flow rate, outdoor heat | - | 2,6 | m3/h |
| For heat pump combination he | | _ | l | exchanger | | | |
| | calei. | | | Water heating energy | | | |
| Declared load profile | | na | 1 | efficiency | η_{wh} | na | % |
| Daily electricity consumption | Qelec | na | kWh | Daily fuel consumption | Qfuel | na | kWh |
| Annual electricity consumption | AEC | na | kWh | Annual fuel consumption | AFC | na | GJ |
| Specific precautions and end of life information: | | end of the product | 's life cycle, it must e product's refrige | recycling station or with the installation engin t be sent correctly to a waste station or reselle rant, compressor oil and electrical/electronic e not permitted | r offering a servic | e of that type. t | is of great |
| Contact details | CTC AB, Näsväge | | | | | | 231218 |

Information for heat pump space heaters and heat pump combination heaters Average climate and Medium temperature



| Average climate and Mediu | m temperature | e | | | Ljungby | | | |
|---|-------------------|---------------------|-----------------------|---|----------------------|-------------------|-------------|--|
| Model(s): | | CTC EcoPart 41 | L2 + CTC Basics | styrning | | | | |
| Air-to-water heat pump: | | No | | Energy efficiency class: | A++ | - | | |
| Water-to-water heat pump: | | No | | Controller class: | 1 | - | | |
| Brine-to-water heat pump: | | Yes | | Controller contribution: | 1 | % | | |
| Low-temperature heat pump: | | No | | Package efficiency: | 139 | % | | |
| Equipped with a supplementary | - | No | | Package efficiency class: | A++ | - | | |
| Heat pump combination heater Parameters shall be declared fo parameters shall be declared fo | or medium-temp | | ion, except for | r low-temperature heat pumps. For | low- tempera | ture heat pu | mps, | |
| ltem | Symbol | Value | Unit | ltem | Symbol | Value | Unit | |
| Rated heat output (*) | Prated | 12 | kW | Seasonal space heating energy efficiency | η _s | 138 | % | |
| Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T j | | | | Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature | | | | |
| T j = – 7 °C | Pdh | 11 | kW | T j = – 7 °C | COPd | 3,25 |] - | |
| T j = + 2 °C | Pdh | 11,2 | kW | T j = +2 °C | COPd | 3,64 | - | |
| T j = + 7 °C | Pdh | 11,4 | kW | T j = +7 °C | COPd | 4,02 | - | |
| T j = + 12 °C | Pdh | 11,6 | kW | T j = +12 °C | COPd | 4,40 | - | |
| T j = bivalent temperature | Pdh | 11 | kW | T j = bivalent temperature | COPd | 3,25 | - | |
| T j = operation limit temperature | Pdh | na | kW | T j = operation limit temperature | COPd | na | - | |
| For air-to-water heat pumps: T j = – 15 °C (if TOL < – 20 °C) | Pdh | na | kW | For air-to-water heat pumps: T j = – 15 °C (if TOL < – 20 °C) | COPd | na | - | |
| Bivalent temperature | T _{biv} | -7 | °C | For air-to-water heat pumps: Operation limit temperature | TOL | na | °C | |
| Cycling interval capacity for heating | P _{cych} | na | kW | Cycling interval efficiency | СОРсус | na |] - | |
| Degradation co-efficient | Cdh | 0,99 | - | Heating water operating limit temperature | WTOL | 65 | °C | |
| Power consumption in modes c | other than active | mode | - | Supplementary heater | | | - | |
| Off mode | P _{OFF} | 0,018 | kW | Rated heat output | Psup | 1,5 | kW | |
| Thermostat-off mode | Р _{то} | 0,005 | kW | | | | | |
| Standby mode | P _{SB} | 0,018 | kW | Type of energy input | | Electric | | |
| Crankcase heater mode | Р _{СК} | 0,000 | kW | | | | | |
| Other items | | | | | | | | |
| Capacity control | | Fixed | | For air-to-water heat pumps: Rated air flow rate, outdoors | - | na | m3/h | |
| Sound power level, indoors/ | L _{WA} | 50/na | dB | For water-/brine-to-water heat pumps: Rated brine or water | | | | |
| Annual energy consumption | Q _{HE} | 7084 | kWh | flow rate, outdoor heat exchanger | - | 2,1 | m3/h | |
| For heat pump combination he | | L | <u> </u> | | | I | I | |
| Declared load profile | | na | | Water heating energy efficiency | η_{wh} | na | % | |
| Daily electricity consumption | Qelec | na | kWh | Daily fuel consumption | Qfuel | na | kWh | |
| Annual electricity consumption | AEC | na | kWh | Annual fuel consumption | AFC | na | GJ | |
| Specific precautions and end of life information: | | end of the product | 's life cycle, it mus | a recycling station or with the installation engi t be sent correctly to a waste station or resell rant, compressor oil and electrical/electronic | er offering a servio | e of that type. t | is of great | |
| | | of the product as h | ousphold wasta in | | | . , . | | |

Information for heat pump space heaters and heat pump combination heaters Average climate and Low temperature



| Average climate and Low te | emperature | | | | Ljungby | | |
|--|--------------------|--------------------|--|--|---------------------------|-------------------|-------------|
| Model(s): | | CTC EcoPart 41 | L2 + CTC Basics | styrning | | | |
| Air-to-water heat pump: | | No | | Energy efficiency class: | A+++ | - | |
| Water-to-water heat pump: | | No | | Controller class: | 1 | - | |
| Brine-to-water heat pump: | | Yes | | Controller contribution: | 1 | % | |
| Low-temperature heat pump: | | No | | Package efficiency: | 183 | % | |
| Equipped with a supplementar | ry heater: | No | | Package efficiency class: | A+++ | - | |
| Heat pump combination heate | er: | No | | | | | |
| | | | ion, except for | r low-temperature heat pumps. For | ⁻ low- tempera | ture heat pu | mps, |
| parameters shall be declared f | • | ure application. | | | | | |
| Item | Symbol | Value | Unit | Item | Symbol | Value | Unit |
| Rated heat output (*) | Prated | 13 | kW | Seasonal space heating energy efficiency | η _s | 182 | % |
| Declared capacity for heating f outdoor temperature T j | or part load at in | door temperatu | re 20 °C and | Declared coefficient of perform part load at indoor temperature | | | |
| Г ј = — 7 °С | Pdh | 11,8 | kW | T j = − 7 °C | COPd | 4,69 | 1 - |
| Γ j = + 2 °C | Pdh | 11,9 | kW | T j = +2 °C | COPd | 4,88 | 1 - |
| г ј = + 7 °С | Pdh | 12,0 | kW | T j = +7 °C | COPd | 5,06 |] - |
| Г ј = + 12 °С | Pdh | 12,1 | kW | T j = +12 °C | COPd | 5,23 | - [|
| Γ j = bivalent temperature | Pdh | 11,8 | kW | T j = bivalent temperature | COPd | 4,69 | - |
| T j = operation limit temperature | Pdh | na | kW | T j = operation limit temperature | COPd | na | - |
| For air-to-water heat pumps: T j = – 15 °C (if TOL < – 20 °C) | Pdh | na | kW | For air-to-water heat pumps: T j = – 15 °C (if TOL < – 20 °C) | COPd | na | - |
| Bivalent temperature | T _{biv} | -7 | °C | For air-to-water heat pumps: Operation limit temperature | TOL | na | °C |
| Cycling interval capacity for neating | P _{cych} | na | kW | Cycling interval efficiency | СОРсус | na | - |
| Degradation co-efficient | Cdh | 0,98 | - | Heating water operating limit temperature | WTOL | 65 | °C |
| Power consumption in modes | other than active | mode | | Supplementary heater | | | - |
| Off mode | P _{OFF} | 0,018 | kW | Rated heat output | Psup | 1,6 | kW |
| Thermostat-off mode | Р _{то} | 0,022 | kW | | | | |
| Standby mode | P _{SB} | 0,018 | kW | Type of energy input | | Electric | |
| Crankcase heater mode | Р _{СК} | 0,000 | kW | | | | |
| Other items | | | | 1 | | | |
| Capacity control | | Fixed | | For air-to-water heat pumps: Rated air flow rate, outdoors | - na m | | |
| Sound power level, indoors/ outdoors | L _{WA} | 50/na | dB | For water-/brine-to-water heat pumps: Rated brine or water | | | |
| Annual energy consumption | Q _{HE} | 5814 | kWh | flow rate, outdoor heat exchanger | - | 2,6 | m3/h |
| or heat pump combination he | | I | 1 | ן ובאטומווצבו | | l | |
| Declared load profile | | na | | Water heating energy efficiency | η_{wh} | na | % |
| Daily electricity consumption | Qelec | na | kWh | Daily fuel consumption | Qfuel | na | kWh |
| Annual electricity consumption | AEC | na | kWh | Annual fuel consumption | AFC | na | GJ |
| Specific precautions and end of life information: | | end of the product | 's life cycle, it mus e product's refrige | a recycling station or with the installation engi t be sent correctly to a waste station or resell- rant, compressor oil and electrical/electronic not permitted. | er offering a servic | e of that type. t | is of great |
| Contact details | CTC AB, Näsväge | | | | | | 231218 |

| | nation for heat pump space heaters and heat pump combination h limate and Medium temperature | | neaters | CTC AB Ljungby | ENERI | GROUP | |
|---|---|--------------------|--|---|--------------------|--------------------|---------|
| Model(s): | - | CTC EcoPart 4 | 12 + CTC Basics | styrning | | | |
| Air-to-water heat pump: | | No | | Energy efficiency class: | | - | |
| Water-to-water heat pump: | | No | | Controller class: | I. | - | |
| Brine-to-water heat pump: | | Yes | | Controller contribution: | 1 | % | |
| .ow-temperature heat pump: | | No | | Package efficiency: | 142 | % | |
| quipped with a supplementary | v heater: | No | | Package efficiency class: | | _ | |
| leat pump combination heater | - | No | | | | | |
| | | | tion, except for | r low-temperature heat pumps. For | low- tempera | ature heat pu | mps, |
| parameters shall be declared for | or low-temperat | ure application. | • | | - | - | - |
| tem | Symbol | Value | Unit | Item | Symbol | Value | Uni |
| Rated heat output (*) | Prated | 12 | kW | Seasonal space heating energy efficiency | n _s | 141 | % |
| Declared capacity for heating for beating for beating for beating for the second second second second second se | or part load at ir | ndoor temperatu | ure 20 °C and | Declared coefficient of performa part load at indoor temperature | | | |
| j = – 7 °C | Pdh | 11,2 | kW | T j = − 7 °C | COPd | 3,56 |] - |
| j = + 2 °C | Pdh | 11,4 | kW | T j = +2 °C | COPd | 3,94 | - |
| j = + 7 °C | Pdh | 11,6 | kW | T j = +7 °C | COPd | 4,29 | |
| j = + 12 °C | Pdh | 11,7 | kW | T j = +12 °C | COPd | 4,54 | - |
| j = bivalent temperature | Pdh | 11 | kW | T j = bivalent temperature | COPd | 3,25 | - |
| j = operation limit emperature | Pdh | na | kW | T j = operation limit temperature | COPd | na | - |
| or air-to-water heat pumps: j = – 15 °C (if TOL < – 20 °C) | Pdh | na | kW | For air-to-water heat pumps: T j = – 15 °C (if TOL < – 20 °C) | COPd | na | - |
| livalent temperature | T _{biv} | -18 | °C | For air-to-water heat pumps: Operation limit temperature | TOL | na | °C |
| Cycling interval capacity for leating | P _{cych} | na | kW | Cycling interval efficiency | СОРсус | na | - |
| Degradation co-efficient | Cdh | 0,99 | - | Heating water operating limit temperature | WTOL | 65 | °C |
| ower consumption in modes o | other than active | e mode | | Supplementary heater | | | _ |
| Off mode | P _{OFF} | 0,018 | kW | Rated heat output | Psup | 1,4 | kW |
| hermostat-off mode | Р _{то} | 0,005 | kW | | | | |
| itandby mode | P _{SB} | 0,018 | kW | Type of energy input | | Electric | |
| rankcase heater mode | Р _{СК} | 0,000 | kW | | | | |
|)ther items | | · · | | | | | |
| Capacity control | | Fixed | | For air-to-water heat pumps: Rated air flow rate, outdoors | - | na | m3/ |
| ound power level, indoors/ | L _{WA} | 50/na | dB | For water-/brine-to-water heat pumps: Rated brine or water | | | |
| Innual energy consumption | Q _{HE} | 8195 | kWh | flow rate, outdoor heat | - | 2,1 | m3/ |
| or heat pump combination he | | | 1 | exchanger | | | 1 |
| Declared load profile | | na | | Water heating energy efficiency | η_{wh} | na | % |
| aily electricity consumption | Qelec | na | kWh | Daily fuel consumption | Qfuel | na | kW |
| nnual electricity onsumption | AEC | na | kWh | Annual fuel consumption | AFC | na | GJ |
| Specific precautions and end of life information: | | end of the product | t's life cycle, it mus ne product's refrige | a recycling station or with the installation engin t be sent correctly to a waste station or reselle rant, compressor oil and electrical/electronic e | r offering a servi | ce of that type. t | is of g |

of the product as household waste is not permitted. Contact details CTC AB, Näsvägen 8, SE-341 34 Ljungby Tel +46 372 88000 www.ctc.se 231218

| Cold climate and Low tempe | | Ljungby | | 0.000 | | | |
|--|------------------------|--------------------|------------------------|---|---------------------|-------------------|------------|
| Model(s): | | CTC EcoPart 4 | styrning | | | | |
| Air-to-water heat pump: | | No | | Energy efficiency class: | | - | |
| Vater-to-water heat pump: | | No | | Controller class: | I. | - | |
| Brine-to-water heat pump: | | Yes | | Controller contribution: | 1 | % | |
| ow-temperature heat pump: | | No | | Package efficiency: | 186 | % | |
| Equipped with a supplementary | heater: | No | | Package efficiency class: | | - | |
| Heat pump combination heater | | No | | | | | |
| | | | tion, except for | r low-temperature heat pumps. For | low- tempera | ture heat pu | mps, |
| parameters shall be declared fo | Symbol | Value | Unit | Item | Symbol | Value | Uni |
| tem | Symbol | value | | Seasonal space heating energy | Symbol | value | T |
| Rated heat output (*) | Prated | 12 | kW | efficiency | η _s | 185 | % |
| Declared capacity for heating fo butdoor temperature T j | r part load at in | door temperatu | re 20 °C and | Declared coefficient of performa part load at indoor temperature | | | |
| 「 j = − 7 °C | Pdh | 11,9 | kW | T j = − 7 °C | COPd | 4,89 |] - |
| Г ј = + 2 °С | Pdh | 12,0 | kW | T j = +2 °C | COPd | 5,06 | 1 - |
| j = + 7 °C | Pdh | 12,1 | kW | T j = +7 °C | COPd | 5,18 |] - |
| Г ј = + 12 °С | Pdh | 12,1 | kW | T j = +12 °C | COPd | 5,20 | _ - |
| j = bivalent temperature | Pdh | 11,8 | kW | T j = bivalent temperature | COPd | 4,66 | - |
| Γ j = operation limit temperature | Pdh | na | kW | T j = operation limit temperature | COPd | na | - |
| For air-to-water heat pumps: [j = – 15 °C (if TOL < – 20 °C) | Pdh | na | kW | For air-to-water heat pumps: T j = – 15 °C (if TOL < – 20 °C) | COPd | na | - |
| Bivalent temperature | T _{biv} | -20 | °C | For air-to-water heat pumps: Operation limit temperature | TOL | na | °C |
| Cycling interval capacity for heating | P _{cych} | na | kW | Cycling interval efficiency | СОРсус | na | - |
| Degradation co-efficient | Cdh | 0,98 | - | Heating water operating limit temperature | WTOL | 65 | °C |
| Power consumption in modes o | ther than active | mode | | Supplementary heater | | | |
| Off mode | P _{OFF} | 0,018 | kW | Rated heat output | Psup | 0,7 | kИ |
| Thermostat-off mode | Р _{то} | 0,022 | kW | | | | |
| Standby mode | P _{SB} | 0,018 | kW | Type of energy input | | Electric | |
| Crankcase heater mode | Р _{СК} | 0,000 | kW | | | | |
| Other items | LN | 0,000 | 1 | | <u>ı</u> | | |
| Capacity control | | Fixed | | For air-to-water heat pumps: Rated air flow rate, outdoors | - | na | m3, |
| ⊾ Sound power level, indoors/ putdoors | L _{WA} | 50/na | dB | For water-/brine-to-water heat pumps: Rated brine or water | | | |
| Annual energy consumption | Q _{HE} | 6373 | kWh | flow rate, outdoor heat exchanger | - | 2,6 | m3/ |
| or heat pump combination hea | ater: | | | <u> </u> | | | * |
| Declared load profile | | na | 1 | Water heating energy efficiency | η_{wh} | na | % |
| Daily electricity consumption | Qelec | na | kWh | Daily fuel consumption | Qfuel | na | kW |
| Annual electricity consumption | AEC | na | kWh | Annual fuel consumption | AFC | na | GJ |
| Specific precautions and end of life information: | | end of the product | 's life cycle, it must | recycling station or with the installation engir t be sent correctly to a waste station or reselle rant, compressor oil and electrical/electronic e | r offering a servic | e of that type. t | is of grea |