

| Information for heat pump | space heaters a | n heaters | CTC AB | | | | |
|---|----------------------|---|-----------------|---|---------------|--------------|----------|
| Warm climate and Mediu | m temperature | | | | Ljungby | | |
| Model(s): | | CTC GSi 612 | | | | | |
| Air-to-water heat pump: | | No | | Energy efficiency class: | | - | |
| Water-to-water heat pump: | | No | | Controller class: | VI | - | |
| Brine-to-water heat pump: | | Yes | | Controller contribution: | 4 | % | |
| Low-temperature heat pump | : | No | | Package efficiency: | 161 | % | |
| Equipped with a supplementary heater: Yes | | Package efficiency class: | | - | | | |
| Heat pump combination heat | er: | Yes | | | | | |
| Parameters shall be declared parameters shall be declared | • | • | ion, except for | low-temperature heat pumps. For | low- temperat | ure heat pun | ıps, |
| Item | Symbol | Value | Unit | Item | Symbol | Value | Unit |
| Rated heat output (*) | Prated | 8 | kW | Seasonal space heating energy efficiency | η_{s} | 157 | % |
| Declared capacity for heating outdoor temperature T j | for part load at inc | door temperatu | re 20 °C and | Declared coefficient of perform load at indoor temperature 20 ° | • | , ,, | • |
| Tj=-7°C | Pdh | na | kW | T j = -7 °C | COPd | na |] - |
| T j = + 2 °C | Pdh | 8,3 | kW | T j = +2 °C | COPd | 2,75 | <u> </u> |
| T j = + 7 °C | Pdh | 5,3 | kW | T j = +7 °C | COPd | 3,78 |] - |

| Declared capacity for heating foutdoor temperature T j | or part load at inc | door temperatur | e 20 °C and | Declared coefficient of performal load at indoor temperature 20 °C | | | • |
|--|---------------------|-----------------|-------------|--|--------|----------|------|
| T j = -7 °C | Pdh | na | kW | T j = - 7 °C | COPd | na |] - |
| T j = + 2 °C | Pdh | 8,3 | kW | T j = +2 °C | COPd | 2,75 |] - |
| T j = + 7 °C | Pdh | 5,3 | kW | T j = +7 °C | COPd | 3,78 | _ |
| T j = + 12 °C | Pdh | 2,4 | kW | T j = +12 °C | COPd | 5,12 | - |
| T j = bivalent temperature | Pdh | 8,3 | kW | T j = bivalent temperature | COPd | 2,75 | - |
| T j = operation limit temperature | Pdh | 8,3 | kW | T j = operation limit temperature | COPd | 2,75 | - |
| 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} | 2 | °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 | mode | _ | Supplementary heater | | | _ |
| Off mode | P OFF | 0,023 | kW | Rated heat output | Psup | 0,0 | kW |
| Thermostat-off mode | P _{TO} | 0,000 | kW | | | | |
| Standby mode | P _{SB} | 0,000 | kW | Type of energy input | | Electric | |
| Crankcase heater mode | P _{CK} | 0,000 | kW | | | | |
| Other items | | | | | | | |
| Capacity control | | Variable | | For air-to-water heat pumps: Rated air flow rate, outdoors | - | na | m3/h |

| Other items | | | | | | _ |
|---|-----------------|----------|-----|--|-----|------|
| Capacity control | | Variable | | For air-to-water heat pumps: Rated air flow rate, outdoors | na | m3/h |
| Sound power level, indoors/ outdoors | L _{WA} | 41/na | dB | For water-/brine-to-water heat pumps: Rated brine or water | | |
| Annual energy consumption | Q _{HE} | 2687 | kWh | flow rate, outdoor heat - exchanger | 1 | m3/h |
| - 1 | | · | · | _ | · · | · · |

For heat pump combination heater:

| Declared load profile | | XL | | Water heating energy efficiency/Energy class | $\eta_{\text{wh/-}}$ | 100/A | % |
|--------------------------------|-------|-------|-----|--|----------------------|-------|-----|
| Daily electricity consumption | Qelec | 7,628 | kWh | Daily fuel consumption | Qfuel | na | kWh |
| Annual electricity consumption | AEC | 1678 | kWh | Annual fuel consumption | AFC | na | GJ |

Specific precautions and end of life information:

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 great $importance\ that\ the\ product's\ refrigerant,\ compressor\ oil\ and\ electrical/electronic\ equipment\ are\ properly\ disposed\ of.\ Disposing$ of the product as household waste is not permitted.

CTC AB



| Warm climate and Low te | emperature | ' ' | | | Ljungby | | |
|--|----------------------|-----------------|----------------|--|--------------|--------------|------|
| Model(s): | | CTC GSi 612 | | | • | | |
| Air-to-water heat pump: | | No | | Energy efficiency class: | | - | |
| Water-to-water heat pump: | | No | | Controller class: | VI | - | |
| Brine-to-water heat pump: | | Yes | | Controller contribution: | 4 | % | |
| Low-temperature heat pump | : | No | | Package efficiency: | 204 | % | |
| Equipped with a supplement | ary heater: | Yes | | Package efficiency class: | | - | |
| Heat pump combination hear Parameters shall be declared parameters shall be declared | for medium-temp | | on, except for | low-temperature heat pumps. For lo | ow- temperat | ure heat pun | nps, |
| Item | Symbol | Value | Unit | Item | Symbol | Value | Unit |
| Rated heat output (*) | Prated | 10 | kW | Seasonal space heating energy efficiency | η_{s} | 200 | % |
| Declared capacity for heating | for part load at inc | door temperatur | e 20 °C and | Declared coefficient of performa | • | | • |

| Rated heat output (*) | Prated | 10 | kW | Seasonal space heating energy efficiency | η_{s} | 200 | % |
|--|---------------------|-----------------|-------------|--|----------------------|----------|------|
| Declared capacity for heating foutdoor temperature T j | or part load at inc | door temperatui | e 20 °C and | Declared coefficient of performal load at indoor temperature 20 °C | | | |
| T j = -7 °C | Pdh | na | kW | T j = -7 °C | COPd | na | - |
| T j = + 2 °C | Pdh | 10,0 | kW | T j = +2 °C | COPd | 4,29 | - |
| T j = + 7 °C | Pdh | 6,4 | kW | T j = +7 °C | COPd | 5,29 | - |
| T j = + 12 °C | Pdh | 2,9 | kW | T j = +12 °C | COPd | 5,71 | - |
| T j = bivalent temperature | Pdh | 10,0 | kW | T j = bivalent temperature | COPd | 4,29 | - |
| T j = operation limit temperature | Pdh | 10,0 | 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} | 2 | °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 | other than active | mode | | Supplementary heater | | | |
| Off mode | P _{OFF} | 0,023 | kW | Rated heat output | Psup | 0,0 | kW |
| Thermostat-off mode | P _{TO} | 0,000 | kW | | | • | • |
| Standby mode | P _{SB} | 0,000 | kW | Type of energy input | | Electric | |
| Crankcase heater mode | P _{CK} | 0,000 | kW | | | | |
| Other items | - CA | ., | • | | | | |
| Capacity control | | Variable | | For air-to-water heat pumps: Rated air flow rate, outdoors | - | na | m3/h |
| Sound power level, indoors/ outdoors | L _{WA} | 41/na | dB | For water-/brine-to-water heat pumps: Rated brine or water | | | |
| Annual energy consumption | Q _{HE} | 2566 | kWh | flow rate, outdoor heat exchanger | - | 1,4 | m3/h |
| For heat pump combination he | ater: | 1 | 1 | 1 1-1-1-1-1-1 | | 1 | ı |
| Declared load profile | | XL | | Water heating energy efficiency/Energy class | $\eta_{\text{wh/-}}$ | 100/A | % |
| Daily electricity consumption | Qelec | 7,628 | kWh | Daily fuel consumption | Qfuel | na | kWh |
| Annual electricity consumption | AEC | 1678 | kWh | Annual fuel consumption | AFC | na | GJ |

| Declared load profile | | XL | | Water heating energy efficiency/Energy class | $\eta_{\text{wh/-}}$ | 100/A | % |
|--------------------------------|-------|-------|-----|--|----------------------|-------|-----|
| Daily electricity consumption | Qelec | 7,628 | kWh | Daily fuel consumption | Qfuel | na | kWh |
| Annual electricity consumption | AEC | 1678 | kWh | Annual fuel consumption | AFC | na | GJ |

Specific precautions and end of life information:

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 great importance that the product's refrigerant, compressor oil and electrical/electronic equipment are properly disposed of. Disposing of the product as household waste is not permitted.

CTC AB Ljungby



| Average climate and Medium tempera | rage climate and Medium temperature | | | | | |
|---------------------------------------|-------------------------------------|---------------------------|------|---|--|--|
| Model(s): | CTC GSi 612 | | | | | |
| Air-to-water heat pump: | No | Energy efficiency class: | A+++ | - | | |
| Water-to-water heat pump: | No | Controller class: | VI | - | | |
| Brine-to-water heat pump: | Yes | Controller contribution: | 4 | % | | |
| Low-temperature heat pump: | No | Package efficiency: | 159 | % | | |
| Equipped with a supplementary 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 low-temperature application.

| Item | Symbol | Value | Unit | Item | Symbol | Value | Unit |
|--|-------------------|--------------------|--|--|----------------------|-------------------|-------------------|
| Rated heat output (*) | Prated | 7 | kW | Seasonal space heating energy efficiency | η_{s} | 155 | % |
| Declared capacity for heating fo outdoor temperature T j | r part load at in | door temperatu | re 20 °C and | Declared coefficient of performar load at indoor temperature 20 °C | | | |
| | | | - | | ana oataooi | | - ') - |
| T j = -7 °C | Pdh | 6,0 | kW | T j = -7 °C | COPd | 3,25 | - |
| T j = + 2 °C | Pdh | 3,7 | kW | T j = +2 °C | COPd | 4,18 | - |
| T j = + 7 °C | Pdh | 2,4 | kW | T j = +7 °C | COPd | 4,70 | - |
| T j = + 12 °C | Pdh | 2,4 | kW | T j = +12 °C | COPd | 5,34 | - |
| Γ j = bivalent temperature | Pdh | 6,7 | kW | T j = bivalent temperature | COPd | 3,00 | - |
| 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} | -10 | °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 of | ther than active | e mode | <u> </u> | Supplementary heater | | | |
| Off mode | P OFF | 0,023 | kW | Rated heat output | Psup | 0,1 | kW |
| Thermostat-off mode | P _{TO} | 0,000 | kW | | • | | |
| Standby mode | P _{SB} | 0,000 | kW | Type of energy input | | Electric | |
| Crankcase heater mode | P _{CK} | 0,000 | kW | | | | |
| Other items | | • | . | | | | |
| Capacity control | | Variable | | For air-to-water heat pumps: Rated air flow rate, outdoors | - | na | m3/l |
| Sound power level, indoors/ outdoors | L _{WA} | 41/na | dB | For water-/brine-to-water heat pumps: Rated brine or water | | | |
| Annual energy consumption | Q _{HE} | 3444 | kWh | flow rate, outdoor heat exchanger | - | 1,0 | m3/l |
| For heat pump combination hea | iter: | | | | | | |
| Declared load profile | | XL | | Water heating energy efficiency/Energy class | $\eta_{\text{wh/-}}$ | 100/A | % |
| Daily electricity consumption | Qelec | 7,628 | kWh | Daily fuel consumption | Qfuel | na | kWh |
| Annual electricity consumption | AEC | 1678 | 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 engine it be sent correctly to a waste station or reseller erant, compressor oil and electrical/electronic ec | offering a servic | e of that type. t | is of grea |

Average climate and Low temperature

CTC AB Ljungby



| CTC GSi 612 | | | |
|-------------|------------------------------|--|---|
| No | Energy efficiency class: | A+++ | - |
| No | Controller class: | VI | - |
| Yes | Controller contribution: | 4 | % |
| No | Package efficiency: | 212 | % |
| Yes | Package efficiency class: | A+++ | - |
| Yes | | | |
| | No No Yes No Yes | No Energy efficiency class: No Controller class: Yes Controller contribution: No Package efficiency: Yes Package efficiency class: | No Energy efficiency class: A+++ No Controller class: VI Yes Controller contribution: 4 No Package efficiency: 212 Yes Package efficiency class: A+++ |

Parameters shall be declared for medium-temperature application, except for low-temperature heat pumps. For low-temperature heat pumps, parameters shall be declared for low-temperature application.

| Item | Symbol | Value | Unit | Item | Symbol | Value | Unit |
|--|-------------------|--------------------|-----------------------|--|----------------------|-------------------|-----------|
| Rated heat output (*) | Prated | 10 | kW | Seasonal space heating energy efficiency | η_{s} | 208 | % |
| Declared capacity for heating fo outdoor temperature T j | r part load at in | door temperatu | re 20 °C and | Declared coefficient of performar load at indoor temperature 20 °C | • | | |
| T j = - 7 °C | Pdh | 8,8 | kW | T j = -7 °C | COPd | 4,59 |] - |
| T j = + 2 °C | Pdh | 5,4 | kW | T j = +2 °C | COPd | 5,60 |] - |
| T j = + 7 °C | Pdh | 3,5 | kW | T j = +7 °C | COPd | 6,05 |] - |
| T j = + 12 °C | Pdh | 2,4 | kW | T j = +12 °C | COPd | 6,03 | - |
| T j = bivalent temperature | Pdh | 9,8 | kW | T j = bivalent temperature | COPd | 4,30 | - |
| 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} | -10 | °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 | mode | | Supplementary heater | | | |
| Off mode | P OFF | 0,023 | kW | Rated heat output | Psup | 0,1 | kW |
| Thermostat-off mode | P _{TO} | 0,000 | kW | | • | | |
| Standby mode | P _{SB} | 0,000 | kW | Type of energy input | | Electric | |
| Crankcase heater mode | P _{CK} | 0,000 | kW | | | | |
| Other items | | | | | | | |
| Capacity control | | Variable | | For air-to-water heat pumps: Rated air flow rate, outdoors | - | na | m3/h |
| Sound power level, indoors/ outdoors | L _{WA} | 41/na | dB | For water-/brine-to-water heat pumps: Rated brine or water | | | |
| Annual energy consumption | Q _{HE} | 3800 | kWh | flow rate, outdoor heat exchanger | - | 1,4 | m3/h |
| For heat pump combination hea | iter: | • | • | <u> </u> | | • | |
| Declared load profile | | XL | | Water heating energy efficiency/Energy class | $\eta_{\text{wh/-}}$ | 100/A | % |
| Daily electricity consumption | Qelec | 7,628 | kWh | Daily fuel consumption | Qfuel | na | kWh |
| Annual electricity consumption | AEC | 1678 | kWh | Annual fuel consumption | AFC | na | GJ |
| Specific precautions and end of life information: | | end of the product | 's life cycle, it mus | arecycling station or with the installation engine it be sent correctly to a waste station or reseller erant, compressor oil and electrical/electronic ec- | offering a service | e of that type. t | is of gre |

Cold climate and Medium temperature

CTC AB Ljungby



| Model(s): | CTC GSi 612 | | | |
|---------------------------------------|-------------|---------------------------|-----|---|
| Air-to-water heat pump: | No | Energy efficiency class: | | - |
| Water-to-water heat pump: | No | Controller class: | VI | - |
| Brine-to-water heat pump: | Yes | Controller contribution: | 4 | % |
| Low-temperature heat pump: | No | Package efficiency: | 167 | % |
| Equipped with a supplementary heater: | Yes | Package efficiency class: | | - |
| 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 low-temperature application.

| Item | Symbol | Value | Unit | Item | Symbol | Value | Unit |
|--|-------------------|--------------------|--|--|----------------------|-------------------|-------------|
| Rated heat output (*) | Prated | 7 | kW | Seasonal space heating energy efficiency | η_{s} | 163 | % |
| Declared capacity for heating for | r part load at in | door temperatui | e 20 °C and | Declared coefficient of performar | | | |
| outdoor temperature T j | | | | load at indoor temperature 20 °C | and outdoor | temperature | ЕTj |
| T j = - 7 °C | Pdh | 4,46 | kW | T j = -7 °C | COPd | 4,01 |] - |
| T j = + 2 °C | Pdh | 2,7 | kW | T j = +2 °C | COPd | 4,66 |] - |
| T j = + 7 °C | Pdh | 2,4 | kW | T j = +7 °C | COPd | 5,17 | - |
| T j = + 12 °C | Pdh | 2,4 | kW | T j = +12 °C | COPd | 5,51 | - |
| T j = bivalent temperature | Pdh | 7,5 | kW | T j = bivalent temperature | COPd | 2,86 | - |
| T j = operation limit temperature | Pdh | 7,54 | kW | T j = operation limit temperature | COPd | 2,86 | - |
| 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} | -22 | °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 of | ther than active | mode | _ | Supplementary heater | | | |
| Off mode | P OFF | 0,023 | kW | Rated heat output | Psup | 0,0 | kW |
| Thermostat-off mode | P _{TO} | 0,000 | kW | | | | |
| Standby mode | P _{SB} | 0,000 | kW | Type of energy input | | Electric | |
| Crankcase heater mode | P _{CK} | 0,000 | kW | | | | |
| Other items | | | | | | | _ |
| Capacity control | | Variable | | For air-to-water heat pumps: Rated air flow rate, outdoors | - | na | m3/h |
| Sound power level, indoors/ outdoors | L _{WA} | 41/na | dB | For water-/brine-to-water heat pumps: Rated brine or water | | | |
| Annual energy consumption | Q _{HE} | 4158 | kWh | flow rate, outdoor heat exchanger | - | 1,0 | m3/h |
| For heat pump combination hea | ter: | • | • | <u> </u> | | | • |
| Declared load profile | | XL | | Water heating energy efficiency/Energy class | $\eta_{\text{wh/-}}$ | 100/A | % |
| Daily electricity consumption | Qelec | 7,628 | kWh | Daily fuel consumption | Qfuel | na | kWh |
| Annual electricity consumption | AEC | 1678 | 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 it be sent correctly to a waste station or reseller erant, compressor oil and electrical/electronic ec | offering a servic | e of that type. t | is of great |

Cold climate and Low temperature

Contact details

CTC AB Ljungby



| Model(s): | CTC GSi 612 | | | |
|---------------------------------------|-------------|---------------------------|-----|---|
| Air-to-water heat pump: | No | Energy efficiency class: | | - |
| Water-to-water heat pump: | No | Controller class: | VI | - |
| Brine-to-water heat pump: | Yes | Controller contribution: | 4 | % |
| Low-temperature heat pump: | No | Package efficiency: | 214 | % |
| Equipped with a supplementary heater: | Yes | Package efficiency class: | | - |
| 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 low-temperature application.

| Item | Symbol | Value | Unit | Item | Symbol | Value | Unit |
|--|-------------------|--------------------|--|---|----------------------|---------------------|------------|
| Rated heat output (*) | Prated | 11 | kW | Seasonal space heating energy efficiency | η_{s} | 210 | % |
| Declared capacity for heating fo outdoor temperature T j | r part load at in | door temperatur | e 20 °C and | Declared coefficient of performan load at indoor temperature 20 °C | • | | |
| T j = -7 °C | Pdh | 7,0 | kW | T j = -7 °C | COPd | 5,33 |] - |
| T j = + 2 °C | Pdh | 4,2 | kW | T j = +2 °C | COPd | 5,90 | - |
| T j = + 7 °C | Pdh | 2,8 | kW | T j = +7 °C | COPd | 5,95 | - |
| Т j = + 12 °C | Pdh | 2,4 | kW | T j = +12 °C | COPd | 5,74 | - |
| T j = bivalent temperature | Pdh | 11,5 | kW | T j = bivalent temperature | COPd | 3,93 | - |
| T j = operation limit temperature | Pdh | 11,45 | kW | T j = operation limit temperature | COPd | 3,93 | - |
| 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} | -22 | °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 | 0,96 | - | Heating water operating limit temperature | WTOL | 65 | °C |
| Power consumption in modes of | ther than active | mode | _ | Supplementary heater | | | |
| Off mode | P OFF | 0,013 | kW | Rated heat output | Psup | 0,0 | kW |
| Thermostat-off mode | P _{TO} | 0,034 | kW | | | | |
| Standby mode | P _{SB} | 0,000 | kW | Type of energy input | | Electric | |
| Crankcase heater mode | P _{CK} | 0,000 | kW | | | | |
| Other items | | | | | | | - |
| Capacity control | | Variable | | For air-to-water heat pumps: Rated air flow rate, outdoors | - | na | m3/h |
| Sound power level, indoors/ outdoors | L _{WA} | 41/na | dB | For water-/brine-to-water heat pumps: Rated brine or water | | | |
| Annual energy consumption | Q _{HE} | 5145 | kWh | flow rate, outdoor heat exchanger | - | 1,0 | m3/h |
| For heat pump combination hea | iter: | | | | | | |
| Declared load profile | | XL | | Water heating energy efficiency/Energy class | $\eta_{\text{wh/-}}$ | 100/A | % |
| Daily electricity consumption | Qelec | 7,628 | kWh | Daily fuel consumption | Qfuel | na | kWh |
| Annual electricity consumption | AEC | 1678 | 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 reseller rrant, compressor oil and electrical/electronic ed | offering a servic | e of that type. t i | s of great |

of the product as household waste is not permitted.

www.ctc.se

F0101

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CTC AB



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| Warm climate and Mediu | m temperature | | | Ljungby | | | |
|---|---------------|----------------|----------------|-----------------------------------|--------------|---------------|------|
| Model(s): | | CTC GSi 612 1x | 230V F0101- | 1 | | | |
| Air-to-water heat pump: | | No | | Energy efficiency class: | | - | |
| Water-to-water heat pump: | | No | | Controller class: | VI | - | |
| Brine-to-water heat pump: | | Yes | | Controller contribution: | 4 | % | |
| Low-temperature heat pump | : | No | | Package efficiency: | 148 | % | |
| Equipped with a supplement | ary heater: | Yes | | Package efficiency class: | | - | |
| Heat pump combination heat | ter: | Yes | | | | | |
| Parameters shall be declared parameters shall be declared | | | ion, except fo | r low-temperature heat pumps. For | low- tempera | ture heat pum | ıps, |
| Item | Symbol | Value | Unit | Item | Symbol | Value | Unit |
| Dated heat output (*) | Dratad | 12 | LAAZ | Seasonal space heating energy | , , | 144 | 0/ |

| Item | Symbol | Value | Unit | Item | Symbol | Value | Unit |
|--|---------------------|-------------------|-------------------|--|----------------------|-----------------|------------|
| Rated heat output (*) | Prated | 12 | kW | Seasonal space heating energy efficiency | η_s | 144 | % |
| Declared capacity for heating fo outdoor temperature T j | or part load at inc | door temperatur | e 20 °C and | Declared coefficient of performar load at indoor temperature 20 °C | | | |
| Tj=-7°C | Pdh | na | kW | T j = - 7 °C | COPd | na |] - |
| T j = + 2 °C | Pdh | 11,3 | kW | T j = +2 °C | COPd | 2,46 | - |
| T j = + 7 °C | Pdh | 7,7 | kW | T j = +7 °C | COPd | 3,28 | - |
| T j = + 12 °C | Pdh | 3,4 | kW | T j = +12 °C | COPd | 4,80 | - |
| T j = bivalent temperature | Pdh | 11,3 | kW | T j = bivalent temperature | COPd | 2,46 | - |
| T j = operation limit temperature | Pdh | 11,28 | kW | T j = operation limit temperature | COPd | 2,46 | - |
| 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} | 2 | °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 | 55 | °C |
| Power consumption in modes o | ther than active | mode | | Supplementary heater | | | |
| Off mode | P OFF | 0,018 | kW | Rated heat output | Psup | 0,0 | kW |
| Thermostat-off mode | P _{TO} | 0,018 | kW | | | | |
| Standby mode | P _{SB} | 0,018 | kW | Type of energy input | | Electric | |
| Crankcase heater mode | P _{CK} | 0,000 | kW | | | | |
| Other items | | • | | | | | |
| Capacity control | | Variable | | For air-to-water heat pumps: Rated air flow rate, outdoors | - | na | m3/h |
| Sound power level, indoors/outdoors | L _{WA} | 41/na | dB | For water-/brine-to-water heat pumps: Rated brine or water | | | |
| Annual energy consumption | Q _{HE} | 4233 | kWh | flow rate, outdoor heat exchanger | - | 0,9 | m3/h |
| For heat pump combination hea | ater: | | | | | | |
| Declared load profile | | XL | | Water heating energy efficiency/Energy class | $\eta_{\text{wh/-}}$ | 100/A | % |
| Daily electricity consumption | Qelec | 8,030 | kWh | Daily fuel consumption | Qfuel | na | kWh |
| Annual electricity consumption | AEC | 1678 | kWh | Annual fuel consumption | AFC | na | GJ |
| Specific precautions and end | | The packaging mus | t be deposited at | a recycling station or with the installation engine | eer for correct v | vaste managemei | nt. At the |

Specific precautions and end of life information:

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 great importance that the product's refrigerant, compressor oil and electrical/electronic equipment are properly disposed of. Disposing of the product as household waste is not permitted.

CTC AB Ljungby



| Warm climate and Low temperature | | | Ljungby | | CIC |
|--|------------------------------------|---------------------------------|---------------|-----------|------------|
| Model(s): | CTC GSi 612 1x230V F0101-2 | l | | | |
| Air-to-water heat pump: | No | Energy efficiency class: | | - | |
| Water-to-water heat pump: | No | Controller class: | VI | - | |
| Brine-to-water heat pump: | Yes | Controller contribution: | 4 | % | |
| Low-temperature heat pump: | No | Package efficiency: | 196 | % | |
| Equipped with a supplementary heater: | Yes | Package efficiency class: | | - | |
| Heat pump combination heater: | Yes | | | | |
| Parameters shall be declared for medium-te | emperature application, except for | r low-temperature heat pumps. I | or low- tempe | rature he | eat pumps, |
| parameters shall be declared for low-tempe | rature application. | | | | |

| Item | Symbol | Value | Unit | Item | Symbol | Value | Unit |
|--|-------------------|--------------------|--|--|--|------------------------------------|------|
| Rated heat output (*) | Prated | 12 | kW | Seasonal space heating energy efficiency | η_{s} | 192 | % |
| Declared capacity for heating fo outdoor temperature T j | r part load at in | door temperatu | re 20 °C and | Declared coefficient of performar load at indoor temperature 20 °C | | | |
| T j = - 7 °C | Pdh | na | kW | T j = -7 °C | COPd | na |] - |
| T j = + 2 °C | Pdh | 11,6 | kW | T j = +2 °C | COPd | 3,61 | - |
| T j = + 7 °C | Pdh | 7,7 | kW | T j = +7 °C | COPd | 4,64 |] - |
| Γj=+12 °C | Pdh | 3,3 | kW | T j = +12 °C | COPd | 5,93 | - |
| Γ j = bivalent temperature | Pdh | 11,6 | kW | T j = bivalent temperature | COPd | 3,61 | - |
| T j = operation limit temperature | Pdh | 11,6 | kW | T j = operation limit temperature | COPd | 3,61 | - |
| 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} | 2 | °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 | 55 | °C |
| Power consumption in modes o | ther than active | mode | _ | Supplementary heater | | | |
| Off mode | P OFF | 0,018 | kW | Rated heat output | Psup | 0,0 | kW |
| Thermostat-off mode | P _{TO} | 0,018 | kW | | | | |
| Standby mode | P _{SB} | 0,018 | kW | Type of energy input | | Electric | |
| Crankcase heater mode | P _{CK} | 0,000 | kW | | | | |
| Other items | | • | • | | | | _ |
| Capacity control | | Variable | | For air-to-water heat pumps: Rated air flow rate, outdoors | - | na | m3/l |
| Sound power level, indoors/ outdoors | L _{WA} | 41/na | dB | For water-/brine-to-water heat pumps: Rated brine or water | | | |
| Annual energy consumption | Q _{HE} | 3205 | kWh | flow rate, outdoor heat exchanger | | 1,2 | m3/l |
| or heat pump combination hea | ater: | | | | | | |
| Declared load profile | | XL | 1 | Water heating energy efficiency/Energy class | $\eta_{\text{wh/-}}$ | 100/A | % |
| Daily electricity consumption | Qelec | 8,030 | kWh | Daily fuel consumption | Qfuel | na | kWł |
| Annual electricity consumption | AEC | 1678 | kWh | Annual fuel consumption | AFC | na | G۱ |
| consumption Specific precautions and end of life information: | AEC | The packaging muse | st be deposited at t's life cycle, it mus ne product's refrigo | a recycling station or with the installation engine st be sent correctly to a waste station or reseller erant, compressor oil and electrical/electronic ed | eer for correct w offering a servic | aste manageme e of that type. t | į |

CTC AB Ljungby



| Average climate and Medium tempera | erage climate and Medium temperature | | | | CIC |
|---------------------------------------|--------------------------------------|---------------------------|-----|---|-----|
| Model(s): | CTC GSi 612 1x230V F0101-1 | | | | |
| Air-to-water heat pump: | No | Energy efficiency class: | A++ | - | |
| Water-to-water heat pump: | No | Controller class: | VI | - | |
| Brine-to-water heat pump: | Yes | Controller contribution: | 4 | % | |
| Low-temperature heat pump: | No | Package efficiency: | 144 | % | |
| Equipped with a supplementary 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 low-temperature application.

| Item | Symbol | Value | Unit | Item | Symbol | Value | Unit |
|--|-------------------|--------------------|--|---|----------------------|-------------------|----------|
| Rated heat output (*) | Prated | 10 | kW | Seasonal space heating energy efficiency | η_{s} | 140 | % |
| Declared capacity for heating fo outdoor temperature T j | r part load at in | door temperatu | re 20 °C and | Declared coefficient of performar load at indoor temperature 20 °C | | | |
| T j = - 7 °C | Pdh | 8,7 |] kW | T j = -7 °C | COPd | 2,77 | 1 _ |
| T j = + 2 °C | Pdh | 5,3 | kW | T j = +2 °C | COPd | 3,76 | <u> </u> |
| T j = + 7 °C | Pdh | 3,5 | kW | T j = +7 °C | COPd | 4,35 | 1 _ |
| T j = + 12 °C | Pdh | 2,2 | kW | T j = +12 °C | COPd | 4,48 | - |
| T j = bivalent temperature | Pdh | 9,8 | kW | T j = bivalent temperature | COPd | 2,54 | - |
| T j = operation limit temperature | Pdh | 9,75 | kW | T j = operation limit temperature | COPd | 2,54 | - |
| 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} | -10 | °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 | e mode | • | Supplementary heater | | | I |
| Off mode | P OFF | 0,018 | kW | Rated heat output | Psup | 0,0 | kW |
| Thermostat-off mode | P _{TO} | 0,018 | kW | | | | • |
| Standby mode | P _{SB} | 0,018 | kW | Type of energy input | | Electric | |
| Crankcase heater mode | P _{CK} | 0,000 | kW | | | | |
| Other items | | | | | | | _ |
| Capacity control | | Variable | | For air-to-water heat pumps: Rated air flow rate, outdoors | - | na | m3/i |
| Sound power level, indoors/ outdoors | L _{WA} | 41/na | dB | For water-/brine-to-water heat pumps: Rated brine or water | | | |
| Annual energy consumption | Q _{HE} | 5582 | kWh | flow rate, outdoor heat exchanger | - | 0,9 | m3/l |
| For heat pump combination hea | iter: | | | | | | |
| Declared load profile | | XL | _ | Water heating energy efficiency/Energy class | $\eta_{\text{wh/-}}$ | 100/A | % |
| Daily electricity consumption | Qelec | 8,030 | kWh | Daily fuel consumption | Qfuel | na | kWł |
| Annual electricity consumption | AEC | 1678 | 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 engine of the sent correctly to a waste station or reseller erant, compressor oil and electrical/electronic en ont permitted. | offering a service | e of that type. t | is of gr |

CTC AB



| Average climate and Low | temperature | | | | Ljungby | | |
|---|------------------------------|----------------|-----------------|--|----------------------|--------------|------|
| Model(s): | | CTC GSi 612 1x | (230V F0101-1 | L | | | |
| Air-to-water heat pump: | | No | | Energy efficiency class: | A+++ | - | |
| Water-to-water heat pump: | | No | | Controller class: | VI | - | |
| Brine-to-water heat pump: | rater heat pump: Yes | | | Controller contribution: | 4 | % | |
| Low-temperature heat pump | w-temperature heat pump: | | | Package efficiency: | 192 | % | |
| Equipped with a supplementa | ary heater: | Yes | | Package efficiency class: | A+++ | - | |
| Heat pump combination heat | eat pump combination heater: | | | | | | |
| Parameters shall be declared parameters shall be declared | | | ion, except for | r low-temperature heat pumps. For l | ow- temperat | ure heat pun | nps, |
| Item | Symbol | Value | Unit | Item | Symbol | Value | Unit |
| Rated heat output (*) | Prated | 12 | kW | Seasonal space heating energy efficiency | $\eta_{\mathcal{S}}$ | 188 | % |
| Declared capacity for heating for part load at indoor temperature 20 °C and | | | | Declared coefficient of perform | • | , ,, | • |

| Rated heat output (*) | Prated | 12 | kW | Seasonal space heating energy efficiency | η_s | 188 | % |
|--|---------------------|----------------|-------------|--|----------------------|----------|------|
| Declared capacity for heating foutdoor temperature T j | or part load at ind | oor temperatur | e 20 °C and | Declared coefficient of performal load at indoor temperature 20 °C | | | |
| T j = -7 °C | Pdh | 10,5 | kW | T j = −7 °C | COPd | 3,84 | - |
| T j = + 2 °C | Pdh | 6,5 | kW | T j = +2 °C | COPd | 4,84 | - |
| T j = + 7 °C | Pdh | 4,2 | kW | T j = +7 °C | COPd | 5,85 | - |
| T j = + 12 °C | Pdh | 2,3 | kW | T j = +12 °C | COPd | 6,19 | - |
| T j = bivalent temperature | Pdh | 11,6 | kW | T j = bivalent temperature | COPd | 3,61 | - |
| T j = operation limit temperature | Pdh | 11,6 | kW | T j = operation limit temperature | COPd | 3,61 | - |
| 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} | -10 | °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 | 55 | °C |
| Power consumption in modes | other than active | mode | | Supplementary heater | | | |
| Off mode | P OFF | 0,018 | kW | Rated heat output | Psup | 0,0 | kW |
| Thermostat-off mode | P _{TO} | 0,018 | kW | | | | |
| Standby mode | P _{SB} | 0,018 | kW | Type of energy input | | Electric | |
| Crankcase heater mode | P _{CK} | 0,000 | kW | | | | |
| Other items | | | | | | | |
| Capacity control | | Variable | | For air-to-water heat pumps: Rated air flow rate, outdoors | - | na | m3/h |
| Sound power level, indoors/ outdoors | L _{WA} | 41/ na | dВ | For water-/brine-to-water heat pumps: Rated brine or water | | | |
| Annual energy consumption | Q _{HE} | 5049 | kWh | flow rate, outdoor heat exchanger | - | 1,2 | m3/h |
| For heat pump combination he | ater: | | | | | | |
| Declared load profile | | XL | | Water heating energy efficiency/Energy class | $\eta_{\text{wh/-}}$ | 100/A | % |
| Daily electricity consumption | Qelec | 8,030 | kWh | Daily fuel consumption | Qfuel | na | kWh |
| Annual electricity consumption | AEC | 1678 | kWh | Annual fuel consumption | AFC | na | GJ |

| Declared load profile | | XL | | Water heating energy efficiency/Energy class | $\eta_{\text{wh/-}}$ | 100/A | % |
|--------------------------------|-------|-------|-----|--|----------------------|-------|-----|
| Daily electricity consumption | Qelec | 8,030 | kWh | Daily fuel consumption | Qfuel | na | kWh |
| Annual electricity consumption | AEC | 1678 | kWh | Annual fuel consumption | AFC | na | GJ |

Specific precautions and end of life information:

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 great importance that the product's refrigerant, compressor oil and electrical/electronic equipment are properly disposed of. Disposing of the product as household waste is not permitted.

Information for heat pump space heaters and heat pump combination heaters

Cold climate and Medium temperature

CTC AB Ljungby



| Model(s): | CTC GSi 612 1x230V F0101-1 | Į. | | _ |
|---------------------------------------|----------------------------|---------------------------|-----|---|
| Air-to-water heat pump: | No | Energy efficiency class: | | - |
| Water-to-water heat pump: | No | Controller class: | VI | - |
| Brine-to-water heat pump: | Yes | Controller contribution: | 4 | % |
| Low-temperature heat pump: | No | Package efficiency: | 154 | % |
| Equipped with a supplementary heater: | Yes | Package efficiency class: | | - |
| Heat pump combination heater: | Yes | | | |

parameters shall be declared for low-temperature application.

| Item | Symbol | Value | Unit | Item | Symbol | Value | Unit |
|--|--------------------|--------------------|--|---|----------------------|---------------------|------------|
| Rated heat output (*) | Prated | 10 | kW | Seasonal space heating energy efficiency | η_{s} | 150 | % |
| Declared capacity for heating for outdoor temperature T j | or part load at in | door temperatu | re 20 °C and | Declared coefficient of performar load at indoor temperature 20 °C | | | |
| T j = -7 °C | Pdh | 6,1 | kW | T j = - 7 °C | COPd | 3,53 |] - |
| T j = + 2 °C | Pdh | 3,8 | kW | T j = +2 °C | COPd | 4,30 | - |
| T j = + 7 °C | Pdh | 2,5 | kW | T j = +7 °C | COPd | 5,36 | - |
| T j = + 12 °C | Pdh | 2,4 | kW | T j = +12 °C | COPd | 5,00 | - |
| T j = bivalent temperature | Pdh | 9,8 | kW | T j = bivalent temperature | COPd | 2,54 | - |
| T j = operation limit temperature | Pdh | 9,75 | kW | T j = operation limit temperature | COPd | 2,54 | - |
| 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} | -22 | °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 | 55 | °C |
| Power consumption in modes o | ther than active | mode | _ | Supplementary heater | | | _ |
| Off mode | P OFF | 0,018 | kW | Rated heat output | Psup | 0,0 | kW |
| Thermostat-off mode | P _{TO} | 0,018 | kW | | | | |
| Standby mode | P _{SB} | 0,018 | kW | Type of energy input | | Electric | |
| Crankcase heater mode | P _{CK} | 0,000 | kW | | | | |
| Other items | | | | | | | _ |
| Capacity control | | Variable | | For air-to-water heat pumps: Rated air flow rate, outdoors | - | na | m3/h |
| Sound power level, indoors/ outdoors | L _{WA} | 41/na | dB | For water-/brine-to-water heat pumps: Rated brine or water | | | |
| Annual energy consumption | Q _{HE} | 6258 | kWh | flow rate, outdoor heat exchanger | - | 0,9 | m3/h |
| For heat pump combination hea | ater: | | | | | | |
| Declared load profile | | XL | _ | Water heating energy efficiency/Energy class | $\eta_{\text{wh/-}}$ | 100/A | % |
| Daily electricity consumption | Qelec | 8,030 | kWh | Daily fuel consumption | Qfuel | na | kWh |
| Annual electricity consumption | AEC | 1678 | 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 reseller erant, compressor oil and electrical/electronic eq not permitted. | offering a service | e of that type. t i | s of great |

Cold climate and Low temperature

CTC AB Ljungby



| Model(s): | CTC GSi 612 1x230V F010 | 1-1 | | |
|---------------------------------------|-------------------------|---------------------------|-----|---|
| Air-to-water heat pump: | No | Energy efficiency class: | | - |
| Water-to-water heat pump: | No | Controller class: | VI | - |
| Brine-to-water heat pump: | Yes | Controller contribution: | 4 | % |
| Low-temperature heat pump: | No | Package efficiency: | 208 | % |
| Equipped with a supplementary heater: | Yes | Package efficiency class: | | - |
| 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 low-temperature application.

| Item | Symbol | Value | Unit | Item | Symbol | Value | Unit |
|--|--------------------|--------------------|--|---|----------------------|-------------------|------------|
| Rated heat output (*) | Prated | 10 | kW | Seasonal space heating energy efficiency | η_{s} | 204 | % |
| Declared capacity for heating fo outdoor temperature T j | or part load at in | door temperatur | e 20 °C and | Declared coefficient of performar load at indoor temperature 20 °C | | | |
| T j = -7 °C | Pdh | 6,0 | kW | T j = -7 °C | COPd | 5,05 |] - |
| T j = + 2 °C | Pdh | 3,7 | kW | T j = +2 °C | COPd | 5,81 |] - |
| T j = + 7 °C | Pdh | 2,4 | kW | T j = +7 °C | COPd | 5,62 | - |
| T j = + 12 °C | Pdh | 2,3 | kW | T j = +12 °C | COPd | 5,71 | - |
| T j = bivalent temperature | Pdh | 9,8 | kW | T j = bivalent temperature | COPd | 3,86 | - |
| T j = operation limit temperature | Pdh | 9,83 | kW | T j = operation limit temperature | COPd | 3,86 | - |
| 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} | -22 | °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 | mode | | Supplementary heater | | | |
| Off mode | P OFF | 0,018 | kW | Rated heat output | Psup | 0,0 | kW |
| Thermostat-off mode | P _{TO} | 0,018 | kW | [] | | | |
| Standby mode | P _{SB} | 0,018 | kW | Type of energy input | | Electric | |
| Crankcase heater mode | P _{CK} | 0,000 | kW | | | | |
| Other items | | | • |] | | | - |
| Capacity control | | Variable | | For air-to-water heat pumps: Rated air flow rate, outdoors | - na | | m3/h |
| Sound power level, indoors/ outdoors | L _{WA} | 41/na | dB | For water-/brine-to-water heat pumps: Rated brine or water | | | |
| Annual energy consumption | Q _{HE} | 4659 | kWh | flow rate, outdoor heat exchanger | - | 1,2 | m3/h |
| For heat pump combination hea | ater: | | | | | | |
| Declared load profile | | XL | | Water heating energy efficiency/Energy class | $\eta_{\text{wh/-}}$ | 100/A | % |
| Daily electricity consumption | Qelec | 8,030 | kWh | Daily fuel consumption | Qfuel | na | kWh |
| Annual electricity consumption | AEC | 1678 | 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 reseller erant, compressor oil and electrical/electronic ec | offering a servic | e of that type. t | s of great |