

# EU-Konformitätserklärung

Anbieter: **Max Weishaupt GmbH**  
**Max-Weishaupt-Straße**  
**D-88475 Schwendi**

Produkt: **Wärmeerzeuger WWP W 180 ID**

Das Produkt ist konform mit den zutreffenden Anforderungen der Richtlinien:

**EDD 2009 / 125 / EC**

Prüfgrundlagen: 813/2013/EU, EN 12102:2008, EN 14511-1:2013, EN 14511-2:2013, EN 14511-3:2013, EN 14511-4:2013, EN 14825:2013

**ELR (EU) 2017 / 1369**

Dieses Produkt wird gekennzeichnet mit:



Schwendi, 26.09.2019

ppa.

Dr. Schloen  
 Leiter Forschung und  
 Entwicklung

ppa.

Buschle  
 Leiter Produktion und  
 Qualität

## Produktdaten

|  | Temperaturanwendung |        |       |
|--|---------------------|--------|-------|
|  | 35°C                | 55°C   |       |
|  | WWP W 180 ID        |        |       |
| Wärmeerzeuger  | A+++                | A+++   |       |
| Klasse für die jahreszeitbedingte Raumheizungs-Energieeffizienz (A+++ - D)                           |                     |        |       |
| Wärmenennleistung bei durchschnittlichen Klimaverhältnissen  | 180                 | 166    | kW    |
| Jahreszeitbedingte Raumheizungs-Energieeffizienz bei durchschnittlichen Klimaverhältnissen           | 234                 | 177    | %     |
| Jährlicher Energieverbrauch als Endenergie für Raumheizung bei durchschnittlichen Klimaverhältnissen | 61605               | 74258  | kWh   |
| Schallleistungspegel im Gebäude, LWA   | 70                  |        | dB(A) |
| Besondere Vorkehrungen bei der Installation  | siehe Manual        |        |       |
| Wärmenennleistung bei kälteren Klimaverhältnissen  | 191                 | 176    | kW    |
| Wärmenennleistung bei wärmeren Klimaverhältnissen  | 180                 | 166    | kW    |
| Jahreszeitbedingte Raumheizungs-Energieeffizienz bei kälteren Klimaverhältnissen                     | 240                 | 181    | %     |
| Jahreszeitbedingte Raumheizungs-Energieeffizienz bei wärmeren Klimaverhältnissen                     | 236                 | 178    | %     |
| Jährlicher Energieverbrauch für Raumheizung als Endenergie bei kälteren Klimaverhältnissen           | 75.959              | 91.858 | kWh   |
| Jährlicher Energieverbrauch für Raumheizung als Endenergie bei wärmeren Klimaverhältnissen           | 39.395              | 47.599 | kWh   |
| Schallleistungspegel im Freien, LWA  | 0                   |        | dB(A) |

# Technical parameters

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|                                       |                          |
|---------------------------------------|--------------------------|
| Manufacturer:                         | Max Weishaupt GmbH       |
| Model:                                | WWP W 180 ID             |
|                                       | Water-to-water heat pump |
| Low-temperature heat pump:            | Nein                     |
| Equipped with a supplementary heater: | Nein                     |
| Heat pump combination heater:         |                          |
| Application:                          | low                      |
| Climate:                              | average                  |

| Item  | Symbol           | Value | Unit |
|---|------------------|-------|------|
| <b>Rated heat output (*)</b>  | Prated           | 180   | kW   |
| Declared capacity for heating for part load at indoor temperature 20°C and outdoor temperature T <sub>j</sub> |                  |       |      |
| T <sub>j</sub> = -7°C   | Pdh              | 180,4 | kW   |
| T <sub>j</sub> = +2°C   | Pdh              | 182,0 | kW   |
| T <sub>j</sub> = +7°C   | Pdh              | 183,4 | kW   |
| T <sub>j</sub> = +12°C  | Pdh              | 184,8 | kW   |
| T <sub>j</sub> = bivalent temperature   | Pdh              | 180,1 | kW   |
| T <sub>j</sub> = operation limit temperature  | Pdh              | 180,1 | kW   |
| For air-to-water heat pumps: T <sub>j</sub> = -15°C (if TOL < -20°C)  | Pdh              |       | kW   |
| Bivalent temperature  | T <sub>biv</sub> | -10   | °C   |

| Item  | Symbol         | Value | Unit |
|---|----------------|-------|------|
| <b>Seasonal space heating energy efficiency</b>   | η <sub>s</sub> | 234   | %    |
| Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20°C and outdoor temperature T <sub>j</sub> |                |       |      |
| T <sub>j</sub> = -7°C   | COPd           | 5,66  |      |
| T <sub>j</sub> = +2°C   | COPd           | 5,97  |      |
| T <sub>j</sub> = +7°C   | COPd           | 6,28  |      |
| T <sub>j</sub> = +12°C  | COPd           | 6,61  |      |
| T <sub>j</sub> = bivalent temperature   | COPd           | 5,60  |      |
| T <sub>j</sub> = operation limit temperature  | COPd           | 5,60  |      |
| For air-to-water heat pumps: T <sub>j</sub> = -15°C (if TOL < -20°C)  | COPd           |       |      |
| For air-to-water heat pumps: Operation limit temperature  | TOL            | -10   | °C   |
| Heating water operating limit temperature   | WTOL           | 62    | °C   |

| Item   | Symbol | Value |
|--|--------|-------|
| <b>Degradation co-efficient (**)</b>                                 | Cdh    |       |
| T <sub>j</sub> = -7°C  | Cdh    | 1,00  |
| T <sub>j</sub> = +2°C  | Cdh    | 1,00  |
| T <sub>j</sub> = +7°C  | Cdh    | 1,00  |
| T <sub>j</sub> = +12°C   | Cdh    | 1,00  |
| For air-to-water heat pumps: T <sub>j</sub> = -15°C (if TOL < -20°C) | Cdh    |       |

## Power consumption in modes other than active mode

|                       |                  |       |    |
|-----------------------|------------------|-------|----|
| Off mode              | P <sub>OFF</sub> | 0,015 | kW |
| Thermostat-off mode   | P <sub>TO</sub>  | 0,020 | kW |
| Standby mode          | P <sub>SB</sub>  | 0,015 | kW |
| Crankcase heater mode | P <sub>CK</sub>  | 0,000 | kW |

## Other items

|                                     |                 |        |     |
|-------------------------------------|-----------------|--------|-----|
| Capacity control                    |                 | fixed  |     |
| Sound power level, indoors/outdoors | L <sub>WA</sub> | 70 / 0 | dB  |
| Annual energy consumption           | Q <sub>HE</sub> | 61.605 | kWh |

## For heat combination heater:

|                               |                   |     |
|-------------------------------|-------------------|-----|
| <b>Declared load profile</b>  |                   |     |
| Daily electricity consumption | Q <sub>elec</sub> | kWh |

## Supplementary heater

|                       |                  |      |    |
|-----------------------|------------------|------|----|
| Rated heat output (*) | P <sub>sup</sub> | 0,00 | kW |
| Type of energy input  | electricity      |      |    |

|  |    |       |                   |
|--|----|-------|-------------------|
| For air-to-water heat pumps: Rated air flow rate, outdoors                                   | -- |       | m <sup>3</sup> /h |
| For water-/brine-to water heat pumps: Rated brine or water flow rate, outdoor heat exchanger | -- | 42,10 | m <sup>3</sup> /h |

|  |                 |  |     |
|--|-----------------|--|-----|
| <b>Water heating energy efficiency</b> | η <sub>wh</sub> |  | %   |
| Annual electricity consumption         | AEC             |  | kWh |

Contact details Max Weishaupt GmbH, Max-Weishaupt-Straße 14, 88475 Schwendi, Tel. 07353/83-0

(\*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating Pdesignh, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj).

(\*\*) If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0,9.

|                                       |                          |
|---------------------------------------|--------------------------|
| Manufacturer:                         | Max Weishaupt GmbH       |
| Model:                                | WWP W 180 ID             |
|                                       | Water-to-water heat pump |
| Low-temperature heat pump:            | Nein                     |
| Equipped with a supplementary heater: | Nein                     |
| Heat pump combination heater:         |                          |
| Application:                          | medium                   |
| Climate:                              | average                  |

| Item  | Symbol           | Value | Unit |
|---|------------------|-------|------|
| <b>Rated heat output (*)</b>  | Prated           | 166   | kW   |
| Declared capacity for heating for part load at indoor temperature 20°C and outdoor temperature T <sub>j</sub> |                  |       |      |
| T <sub>j</sub> = -7°C   | Pdh              | 167,6 | kW   |
| T <sub>j</sub> = +2°C   | Pdh              | 173,3 | kW   |
| T <sub>j</sub> = +7°C   | Pdh              | 176,8 | kW   |
| T <sub>j</sub> = +12°C  | Pdh              | 180,3 | kW   |
| T <sub>j</sub> = bivalent temperature   | Pdh              | 165,9 | kW   |
| T <sub>j</sub> = operation limit temperature  | Pdh              | 165,9 | kW   |
| For air-to-water heat pumps: T <sub>j</sub> = -15°C (if TOL < -20°C)  | Pdh              |       | kW   |
| Bivalent temperature  | T <sub>biv</sub> | -10   | °C   |

| Item  | Symbol         | Value | Unit |
|---|----------------|-------|------|
| <b>Seasonal space heating energy efficiency</b>   | η <sub>s</sub> | 177   | %    |
| Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20°C and outdoor temperature T <sub>j</sub> |                |       |      |
| T <sub>j</sub> = -7°C   | COPd           | 3,87  |      |
| T <sub>j</sub> = +2°C   | COPd           | 4,54  |      |
| T <sub>j</sub> = +7°C   | COPd           | 5,04  |      |
| T <sub>j</sub> = +12°C  | COPd           | 5,64  |      |
| T <sub>j</sub> = bivalent temperature   | COPd           | 3,70  |      |
| T <sub>j</sub> = operation limit temperature  | COPd           | 3,70  |      |
| For air-to-water heat pumps: T <sub>j</sub> = -15°C (if TOL < -20°C)  | COPd           |       |      |
| For air-to-water heat pumps: Operation limit temperature  | TOL            | -10   | °C   |
| Heating water operating limit temperature   | WTOL           | 62    | °C   |

| Item   | Symbol | Value |
|--|--------|-------|
| <b>Degradation co-efficient (**)</b>                                 | Cdh    |       |
| T <sub>j</sub> = -7°C  | Cdh    | 1,00  |
| T <sub>j</sub> = +2°C  | Cdh    | 1,00  |
| T <sub>j</sub> = +7°C  | Cdh    | 1,00  |
| T <sub>j</sub> = +12°C   | Cdh    | 1,00  |
| For air-to-water heat pumps: T <sub>j</sub> = -15°C (if TOL < -20°C) | Cdh    |       |

Power consumption in modes other than active mode

|                       |                  |       |    |
|-----------------------|------------------|-------|----|
| Off mode              | P <sub>OFF</sub> | 0,015 | kW |
| Thermostat-off mode   | P <sub>TO</sub>  | 0,020 | kW |
| Standby mode          | P <sub>SB</sub>  | 0,015 | kW |
| Crankcase heater mode | P <sub>CK</sub>  | 0,000 | kW |

Other items

|                                     |                 |        |     |
|-------------------------------------|-----------------|--------|-----|
| Capacity control                    |                 | fixed  |     |
| Sound power level, indoors/outdoors | L <sub>WA</sub> | 70 / 0 | dB  |
| Annual energy consumption           | Q <sub>HE</sub> | 74.258 | kWh |

For heat combination heater:

|                               |                   |  |     |
|-------------------------------|-------------------|--|-----|
| <b>Declared load profile</b>  |                   |  |     |
| Daily electricity consumption | Q <sub>elec</sub> |  | kWh |

Supplementary heater

|                       |                  |      |    |
|-----------------------|------------------|------|----|
| Rated heat output (*) | P <sub>sup</sub> | 0,00 | kW |
| Type of energy input  | electricity      |      |    |

|  |    |       |                   |
|--|----|-------|-------------------|
| For air-to-water heat pumps: Rated air flow rate, outdoors                                   | -- |       | m <sup>3</sup> /h |
| For water-/brine-to water heat pumps: Rated brine or water flow rate, outdoor heat exchanger | -- | 42,10 | m <sup>3</sup> /h |

|  |                 |  |     |
|--|-----------------|--|-----|
| <b>Water heating energy efficiency</b> | η <sub>wh</sub> |  | %   |
| Annual electricity consumption         | AEC             |  | kWh |

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(\*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating Pdesignh, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj).

(\*\*) If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0,9.

|                                       |                          |
|---------------------------------------|--------------------------|
| Manufacturer:                         | Max Weishaupt GmbH       |
| Model:                                | WWP W 180 ID             |
|                                       | Water-to-water heat pump |
| Low-temperature heat pump:            | Nein                     |
| Equipped with a supplementary heater: | Nein                     |
| Heat pump combination heater:         |                          |
| Application:                          | low                      |
| Climate:                              | colder                   |

| Item  | Symbol           | Value | Unit |
|---|------------------|-------|------|
| <b>Rated heat output (*)</b>  | Prated           | 191   | kW   |
| Declared capacity for heating for part load at indoor temperature 20°C and outdoor temperature T <sub>j</sub> |                  |       |      |
| T <sub>j</sub> = -7°C   | Pdh              | 182,3 | kW   |
| T <sub>j</sub> = +2°C   | Pdh              | 183,5 | kW   |
| T <sub>j</sub> = +7°C   | Pdh              | 184,5 | kW   |
| T <sub>j</sub> = +12°C  | Pdh              | 184,7 | kW   |
| T <sub>j</sub> = bivalent temperature   | Pdh              | 180,7 | kW   |
| T <sub>j</sub> = operation limit temperature  | Pdh              | 180,1 | kW   |
| For air-to-water heat pumps:<br>T <sub>j</sub> = -15°C<br>(if TOL < -20°C)                                    | Pdh              | 181,7 | kW   |
| Bivalent temperature  | T <sub>biv</sub> | -20   | °C   |

| Item  | Symbol         | Value | Unit |
|---|----------------|-------|------|
| <b>Seasonal space heating energy efficiency</b>   | η <sub>s</sub> | 240   | %    |
| Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20°C and outdoor temperature T <sub>j</sub> |                |       |      |
| T <sub>j</sub> = -7°C   | COPd           | 6,04  |      |
| T <sub>j</sub> = +2°C   | COPd           | 6,31  |      |
| T <sub>j</sub> = +7°C   | COPd           | 6,52  |      |
| T <sub>j</sub> = +12°C  | COPd           | 6,58  |      |
| T <sub>j</sub> = bivalent temperature   | COPd           | 5,72  |      |
| T <sub>j</sub> = operation limit temperature  | COPd           | 5,60  |      |
| For air-to-water heat pumps:<br>T <sub>j</sub> = -15°C<br>(if TOL < -20°C)  | COPd           | 5,92  |      |
| For air-to-water heat pumps:<br>Operation limit temperature   | TOL            | -22   | °C   |
| Heating water operating limit temperature   | WTOL           | 62    | °C   |

| Item   | Symbol | Value |
|--|--------|-------|
| <b>Degradation co-efficient (**)</b>                                       | Cdh    |       |
| T <sub>j</sub> = -7°C  | Cdh    | 1,00  |
| T <sub>j</sub> = +2°C  | Cdh    | 1,00  |
| T <sub>j</sub> = +7°C  | Cdh    | 1,00  |
| T <sub>j</sub> = +12°C   | Cdh    | 1,00  |
| For air-to-water heat pumps:<br>T <sub>j</sub> = -15°C<br>(if TOL < -20°C) | Cdh    | 1,00  |

### Power consumption in modes other than active mode

|                       |                  |       |    |
|-----------------------|------------------|-------|----|
| Off mode              | P <sub>OFF</sub> | 0,015 | kW |
| Thermostat-off mode   | P <sub>TO</sub>  | 0,020 | kW |
| Standby mode          | P <sub>SB</sub>  | 0,015 | kW |
| Crankcase heater mode | P <sub>CK</sub>  | 0,000 | kW |

### Other items

|                                     |                 |        |     |
|-------------------------------------|-----------------|--------|-----|
| Capacity control                    |                 | fixed  |     |
| Sound power level, indoors/outdoors | L <sub>WA</sub> | 70 / 0 | dB  |
| Annual energy consumption           | Q <sub>HE</sub> | 75.959 | kWh |

### For heat combination heater:

|                               |                   |  |     |
|-------------------------------|-------------------|--|-----|
| <b>Declared load profile</b>  |                   |  |     |
| Daily electricity consumption | Q <sub>elec</sub> |  | kWh |

### Supplementary heater

|                       |                  |             |    |
|-----------------------|------------------|-------------|----|
| Rated heat output (*) | P <sub>sup</sub> | 10,65       | kW |
| Type of energy input  |                  | electricity |    |

|  |    |       |                   |
|--|----|-------|-------------------|
| For air-to-water heat pumps: Rated air flow rate, outdoors                                   | -- |       | m <sup>3</sup> /h |
| For water-/brine-to water heat pumps: Rated brine or water flow rate, outdoor heat exchanger | -- | 42,10 | m <sup>3</sup> /h |

|  |                 |  |     |
|--|-----------------|--|-----|
| <b>Water heating energy efficiency</b> | η <sub>wh</sub> |  | %   |
| Annual electricity consumption         | AEC             |  | kWh |

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(\*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating Pdesignh, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj).

(\*\*) If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0,9.

# Technical parameters

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|                                       |                          |
|---------------------------------------|--------------------------|
| Manufacturer:                         | Max Weishaupt GmbH       |
| Model:                                | WWP W 180 ID             |
|                                       | Water-to-water heat pump |
| Low-temperature heat pump:            | Nein                     |
| Equipped with a supplementary heater: | Nein                     |
| Heat pump combination heater:         |                          |
| Application:                          | medium                   |
| Climate:                              | colder                   |

| Item  | Symbol           | Value | Unit |
|---|------------------|-------|------|
| <b>Rated heat output (*)</b>  | Prated           | 176   | kW   |
| Declared capacity for heating for part load at indoor temperature 20°C and outdoor temperature T <sub>j</sub> |                  |       |      |
| T <sub>j</sub> = -7°C   | P <sub>dh</sub>  | 172,3 | kW   |
| T <sub>j</sub> = +2°C   | P <sub>dh</sub>  | 176,3 | kW   |
| T <sub>j</sub> = +7°C   | P <sub>dh</sub>  | 179,3 | kW   |
| T <sub>j</sub> = +12°C  | P <sub>dh</sub>  | 181,6 | kW   |
| T <sub>j</sub> = bivalent temperature   | P <sub>dh</sub>  | 167,1 | kW   |
| T <sub>j</sub> = operation limit temperature  | P <sub>dh</sub>  | 165,9 | kW   |
| For air-to-water heat pumps:<br>T <sub>j</sub> = -15°C (if TOL < -20°C)                                       | P <sub>dh</sub>  | 169,6 | kW   |
| Bivalent temperature  | T <sub>biv</sub> | -20   | °C   |

| Item  | Symbol           | Value | Unit |
|---|------------------|-------|------|
| <b>Seasonal space heating energy efficiency</b>   | η <sub>s</sub>   | 181   | %    |
| Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20°C and outdoor temperature T <sub>j</sub> |                  |       |      |
| T <sub>j</sub> = -7°C   | COP <sub>d</sub> | 4,40  |      |
| T <sub>j</sub> = +2°C   | COP <sub>d</sub> | 4,96  |      |
| T <sub>j</sub> = +7°C   | COP <sub>d</sub> | 5,45  |      |
| T <sub>j</sub> = +12°C  | COP <sub>d</sub> | 5,89  |      |
| T <sub>j</sub> = bivalent temperature   | COP <sub>d</sub> | 3,82  |      |
| T <sub>j</sub> = operation limit temperature  | COP <sub>d</sub> | 3,70  |      |
| For air-to-water heat pumps:<br>T <sub>j</sub> = -15°C (if TOL < -20°C)   | COP <sub>d</sub> | 4,08  |      |
| For air-to-water heat pumps:<br>Operation limit temperature   | TOL              | -22   | °C   |
| Heating water operating limit temperature   | WTOL             | 62    | °C   |

| Item  | Symbol          | Value |
|---|-----------------|-------|
| <b>Degradation co-efficient (**)</b>                                    | C <sub>dh</sub> |       |
| T <sub>j</sub> = -7°C   | C <sub>dh</sub> | 1,00  |
| T <sub>j</sub> = +2°C   | C <sub>dh</sub> | 1,00  |
| T <sub>j</sub> = +7°C   | C <sub>dh</sub> | 1,00  |
| T <sub>j</sub> = +12°C  | C <sub>dh</sub> | 1,00  |
| For air-to-water heat pumps:<br>T <sub>j</sub> = -15°C (if TOL < -20°C) | C <sub>dh</sub> | 1,00  |

### Power consumption in modes other than active mode

|                       |                  |       |    |
|-----------------------|------------------|-------|----|
| Off mode              | P <sub>OFF</sub> | 0,015 | kW |
| Thermostat-off mode   | P <sub>TO</sub>  | 0,020 | kW |
| Standby mode          | P <sub>SB</sub>  | 0,015 | kW |
| Crankcase heater mode | P <sub>CK</sub>  | 0,000 | kW |

### Other items

|                                     |                 |        |     |
|-------------------------------------|-----------------|--------|-----|
| Capacity control                    |                 | fixed  |     |
| Sound power level, indoors/outdoors | L <sub>WA</sub> | 70 / 0 | dB  |
| Annual energy consumption           | Q <sub>HE</sub> | 91.858 | kWh |

### For heat combination heater:

|                               |                   |  |     |
|-------------------------------|-------------------|--|-----|
| <b>Declared load profile</b>  |                   |  |     |
| Daily electricity consumption | Q <sub>elec</sub> |  | kWh |

### Supplementary heater

|                       |                  |             |    |
|-----------------------|------------------|-------------|----|
| Rated heat output (*) | P <sub>sup</sub> | 10,50       | kW |
| Type of energy input  |                  | electricity |    |

|  |    |       |                   |
|--|----|-------|-------------------|
| For air-to-water heat pumps: Rated air flow rate, outdoors                                   | -- |       | m <sup>3</sup> /h |
| For water-/brine-to water heat pumps: Rated brine or water flow rate, outdoor heat exchanger | -- | 42,10 | m <sup>3</sup> /h |

|  |                 |  |     |
|--|-----------------|--|-----|
| <b>Water heating energy efficiency</b> | η <sub>wh</sub> |  | %   |
| Annual electricity consumption         | AEC             |  | kWh |

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(\*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating Pdesignh, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj).

(\*\*) If C<sub>dh</sub> is not determined by measurement then the default degradation coefficient is C<sub>dh</sub> = 0,9.

|                                       |                          |
|---------------------------------------|--------------------------|
| Manufacturer:                         | Max Weishaupt GmbH       |
| Model:                                | WWP W 180 ID             |
|                                       | Water-to-water heat pump |
| Low-temperature heat pump:            | Nein                     |
| Equipped with a supplementary heater: | Nein                     |
| Heat pump combination heater:         |                          |
| Application:                          | low                      |
| Climate:                              | warmer                   |

| Item  | Symbol           | Value | Unit |
|---|------------------|-------|------|
| <b>Rated heat output (*)</b>  | Prated           | 180   | kW   |
| Declared capacity for heating for part load at indoor temperature 20°C and outdoor temperature T <sub>j</sub> |                  |       |      |
| T <sub>j</sub> = -7°C   | Pdh              |       | kW   |
| T <sub>j</sub> = +2°C   | Pdh              | 180,1 | kW   |
| T <sub>j</sub> = +7°C   | Pdh              | 181,6 | kW   |
| T <sub>j</sub> = +12°C  | Pdh              | 183,9 | kW   |
| T <sub>j</sub> = bivalent temperature   | Pdh              | 180,1 | kW   |
| T <sub>j</sub> = operation limit temperature  | Pdh              | 180,1 | kW   |
| For air-to-water heat pumps:<br>T <sub>j</sub> = -15°C<br>(if TOL < -20°C)                                    | Pdh              |       | kW   |
| Bivalent temperature  | T <sub>biv</sub> | 2     | °C   |

| Item  | Symbol         | Value | Unit |
|---|----------------|-------|------|
| <b>Seasonal space heating energy efficiency</b>   | η <sub>s</sub> | 236   | %    |
| Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20°C and outdoor temperature T <sub>j</sub> |                |       |      |
| T <sub>j</sub> = -7°C   | COPd           |       |      |
| T <sub>j</sub> = +2°C   | COPd           | 5,60  |      |
| T <sub>j</sub> = +7°C   | COPd           | 5,90  |      |
| T <sub>j</sub> = +12°C  | COPd           | 6,39  |      |
| T <sub>j</sub> = bivalent temperature   | COPd           | 5,60  |      |
| T <sub>j</sub> = operation limit temperature  | COPd           | 5,60  |      |
| For air-to-water heat pumps:<br>T <sub>j</sub> = -15°C<br>(if TOL < -20°C)  | COPd           |       |      |
| For air-to-water heat pumps:<br>Operation limit temperature   | TOL            | 2     | °C   |
| Heating water operating limit temperature   | WTOL           | 62    | °C   |

| Item   | Symbol | Value |
|--|--------|-------|
| <b>Degradation co-efficient (**)</b>                                       | Cdh    |       |
| T <sub>j</sub> = -7°C  | Cdh    |       |
| T <sub>j</sub> = +2°C  | Cdh    | 1,00  |
| T <sub>j</sub> = +7°C  | Cdh    | 1,00  |
| T <sub>j</sub> = +12°C   | Cdh    | 1,00  |
| For air-to-water heat pumps:<br>T <sub>j</sub> = -15°C<br>(if TOL < -20°C) | Cdh    |       |

Power consumption in modes other than active mode

|                       |                  |       |    |
|-----------------------|------------------|-------|----|
| Off mode              | P <sub>OFF</sub> | 0,015 | kW |
| Thermostat-off mode   | P <sub>TO</sub>  | 0,020 | kW |
| Standby mode          | P <sub>SB</sub>  | 0,015 | kW |
| Crankcase heater mode | P <sub>CK</sub>  | 0,000 | kW |

Other items

|                                     |                 |        |     |
|-------------------------------------|-----------------|--------|-----|
| Capacity control                    |                 | fixed  |     |
| Sound power level, indoors/outdoors | L <sub>WA</sub> | 70 / 0 | dB  |
| Annual energy consumption           | Q <sub>HE</sub> | 39.395 | kWh |

For heat combination heater:

|                               |                   |     |
|-------------------------------|-------------------|-----|
| <b>Declared load profile</b>  |                   |     |
| Daily electricity consumption | Q <sub>elec</sub> | kWh |

Supplementary heater

|                       |                  |      |    |
|-----------------------|------------------|------|----|
| Rated heat output (*) | P <sub>sup</sub> | 0,00 | kW |
| Type of energy input  | electricity      |      |    |

|  |    |       |                   |
|--|----|-------|-------------------|
| For air-to-water heat pumps: Rated air flow rate, outdoors                                   | -- |       | m <sup>3</sup> /h |
| For water-/brine-to water heat pumps: Rated brine or water flow rate, outdoor heat exchanger | -- | 42,10 | m <sup>3</sup> /h |

|  |                 |  |     |
|--|-----------------|--|-----|
| <b>Water heating energy efficiency</b> | η <sub>wh</sub> |  | %   |
| Annual electricity consumption         | AEC             |  | kWh |

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(\*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating Pdesignh, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj).

(\*\*) If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0,9.

# Technical parameters

- weishaupt -

|                                       |                          |
|---------------------------------------|--------------------------|
| Manufacturer:                         | Max Weishaupt GmbH       |
| Model:                                | WWP W 180 ID             |
|                                       | Water-to-water heat pump |
| Low-temperature heat pump:            | Nein                     |
| Equipped with a supplementary heater: | Nein                     |
| Heat pump combination heater:         |                          |
| Application:                          | medium                   |
| Climate:                              | warmer                   |

| Item  | Symbol           | Value | Unit |
|---|------------------|-------|------|
| <b>Rated heat output (*)</b>  | Prated           | 166   | kW   |
| Declared capacity for heating for part load at indoor temperature 20°C and outdoor temperature T <sub>j</sub> |                  |       |      |
| T <sub>j</sub> = -7°C   | P <sub>dh</sub>  |       | kW   |
| T <sub>j</sub> = +2°C   | P <sub>dh</sub>  | 165,9 | kW   |
| T <sub>j</sub> = +7°C   | P <sub>dh</sub>  | 170,9 | kW   |
| T <sub>j</sub> = +12°C  | P <sub>dh</sub>  | 178,0 | kW   |
| T <sub>j</sub> = bivalent temperature   | P <sub>dh</sub>  | 165,9 | kW   |
| T <sub>j</sub> = operation limit temperature  | P <sub>dh</sub>  | 165,9 | kW   |
| For air-to-water heat pumps: T <sub>j</sub> = -15°C (if TOL < -20°C)  | P <sub>dh</sub>  |       | kW   |
| Bivalent temperature  | T <sub>biv</sub> | 2     | °C   |

| Item  | Symbol           | Value | Unit |
|---|------------------|-------|------|
| <b>Seasonal space heating energy efficiency</b>   | η <sub>s</sub>   | 178   | %    |
| Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20°C and outdoor temperature T <sub>j</sub> |                  |       |      |
| T <sub>j</sub> = -7°C   | COP <sub>d</sub> |       |      |
| T <sub>j</sub> = +2°C   | COP <sub>d</sub> | 3,70  |      |
| T <sub>j</sub> = +7°C   | COP <sub>d</sub> | 4,23  |      |
| T <sub>j</sub> = +12°C  | COP <sub>d</sub> | 5,23  |      |
| T <sub>j</sub> = bivalent temperature   | COP <sub>d</sub> | 3,70  |      |
| T <sub>j</sub> = operation limit temperature  | COP <sub>d</sub> | 3,70  |      |
| For air-to-water heat pumps: T <sub>j</sub> = -15°C (if TOL < -20°C)  | COP <sub>d</sub> |       |      |
| For air-to-water heat pumps: Operation limit temperature  | TOL              | 2     | °C   |
| Heating water operating limit temperature   | WTOL             | 62    | °C   |

| Item   | Symbol          | Value |
|--|-----------------|-------|
| <b>Degradation co-efficient (**)</b>                                 | C <sub>dh</sub> |       |
| T <sub>j</sub> = -7°C  | C <sub>dh</sub> |       |
| T <sub>j</sub> = +2°C  | C <sub>dh</sub> | 1,00  |
| T <sub>j</sub> = +7°C  | C <sub>dh</sub> | 1,00  |
| T <sub>j</sub> = +12°C   | C <sub>dh</sub> | 1,00  |
| For air-to-water heat pumps: T <sub>j</sub> = -15°C (if TOL < -20°C) | C <sub>dh</sub> |       |

### Power consumption in modes other than active mode

|                       |                  |       |    |
|-----------------------|------------------|-------|----|
| Off mode              | P <sub>OFF</sub> | 0,015 | kW |
| Thermostat-off mode   | P <sub>TO</sub>  | 0,020 | kW |
| Standby mode          | P <sub>SB</sub>  | 0,015 | kW |
| Crankcase heater mode | P <sub>CK</sub>  | 0,000 | kW |

### Other items

|                                     |                 |        |     |
|-------------------------------------|-----------------|--------|-----|
| Capacity control                    |                 | fixed  |     |
| Sound power level, indoors/outdoors | L <sub>WA</sub> | 70 / 0 | dB  |
| Annual energy consumption           | Q <sub>HE</sub> | 47.599 | kWh |

### For heat combination heater:

|                               |                   |  |     |
|-------------------------------|-------------------|--|-----|
| <b>Declared load profile</b>  |                   |  |     |
| Daily electricity consumption | Q <sub>elec</sub> |  | kWh |

### Supplementary heater

|                       |                  |             |    |
|-----------------------|------------------|-------------|----|
| Rated heat output (*) | P <sub>sup</sub> | 0,00        | kW |
| Type of energy input  |                  | electricity |    |

|  |    |       |                   |
|--|----|-------|-------------------|
| For air-to-water heat pumps: Rated air flow rate, outdoors                                   | -- |       | m <sup>3</sup> /h |
| For water-/brine-to water heat pumps: Rated brine or water flow rate, outdoor heat exchanger | -- | 42,10 | m <sup>3</sup> /h |

|  |                 |  |     |
|--|-----------------|--|-----|
| <b>Water heating energy efficiency</b> | η <sub>wh</sub> |  | %   |
| Annual electricity consumption         | AEC             |  | kWh |

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(\*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating Pdesignh, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj).

(\*\*) If C<sub>dh</sub> is not determined by measurement then the default degradation coefficient is C<sub>dh</sub> = 0,9.