



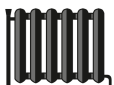
# ENERG

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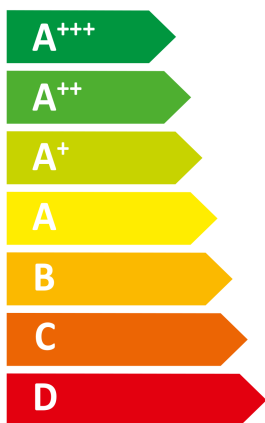
-weishaupt-

WGB 14-A-MD-I



55 °C

35 °C



**41** dB

**0** dB

■ 13	■ 14
■ 13	■ 14
■ 13	■ 14
kW	kW

2019

811/2013

## Produkt Daten

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

Produkt: **Wärmeerzeuger** **WGB 14-A-MD-I**

Die EU-Konformitätserklärung und die Anleitung (manual) liegen dem Produkt bei.

Nachstehende Produktdaten wurden auf Basis folgender Prüfgrundlagen ermittelt:

811/2013/EU, 813/2013/EU, EN 12102:2017, EN 14511-1:2017, EN 14511-2:2018, EN 14511-3:2018,  
 EN 14511-4:2018, EN 14825:2018

	Temperaturanwendung		
	35°C	55°C	
Wärmeerzeuger	WGB 14-A-MD-I		
Klasse für die jahreszeitbedingte Raumheizungs-Energieeffizienz (A+++ - D)	A+++	A+++	
Wärmenennleistung bei durchschnittlichen Klimaverhältnissen	14	13	kW
Jahreszeitbedingte Raumheizungs-Energieeffizienz bei durchschnittlichen Klimaverhältnissen	200	150	%
Jährlicher Energieverbrauch als Endenergie für Raumheizung bei durchschnittlichen Klimaverhältnissen	5568	6793	kWh
Schallleistungspegel im Gebäude, LWA	41		dB(A)
Besondere Vorkehrungen bei der Installation	siehe manual		
Wärmenennleistung bei kälteren Klimaverhältnissen	14	13	kW
Wärmenennleistung bei wärmeren Klimaverhältnissen	14	13	kW
Jahreszeitbedingte Raumheizungs-Energieeffizienz bei kälteren Klimaverhältnissen	205	152	%
Jahreszeitbedingte Raumheizungs-Energieeffizienz bei wärmeren Klimaverhältnissen	199	148	%
Jährlicher Energieverbrauch für Raumheizung als Endenergie bei kälteren Klimaverhältnissen	6469	8019	kWh
Jährlicher Energieverbrauch für Raumheizung als Endenergie bei wärmeren Klimaverhältnissen	3623	4458	kWh
Schallleistungspegel im Freien, LWA	0		dB(A)

# Technical parameters

- weishaupt -

Manufacturer:	Max Weishaupt GmbH
Model:	WGB 14-A-MD-I
	Brine - to-water heat pump
Low-temperature heat pump:	no
Equipped with a supplementary heater:	no
Heat pump combination heater:	
Application:	low
Climate:	average

Item	Symbol	Value	Unit
<b>Rated heat output (*)</b>	Prated	14	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>	12,0	kW
T <sub>j</sub> = +2°C	P <sub>dh</sub>	7,5	kW
T <sub>j</sub> = +7°C	P <sub>dh</sub>	4,7	kW
T <sub>j</sub> = +12°C	P <sub>dh</sub>	2,7	kW
T <sub>j</sub> = bivalent temperature	P <sub>dh</sub>	13,5	kW
T <sub>j</sub> = operation limit temperature	P <sub>dh</sub>	13,5	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>	-10	°C

Item	Symbol	Value	Unit
<b>Seasonal space heating energy efficiency</b>	η <sub>s</sub>	200	%
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>	4,50	
T <sub>j</sub> = +2°C	COP <sub>d</sub>	5,29	
T <sub>j</sub> = +7°C	COP <sub>d</sub>	5,71	
T <sub>j</sub> = +12°C	COP <sub>d</sub>	5,46	
T <sub>j</sub> = bivalent temperature	COP <sub>d</sub>	4,25	
T <sub>j</sub> = operation limit temperature	COP <sub>d</sub>	4,25	
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	-10	°C
Heating water operating limit temperature	WTOL	65	°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>	0,98
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>	0,018	kW
Thermostat-off mode	P <sub>TO</sub>	0,013	kW
Standby mode	P <sub>SB</sub>	0,018	kW
Crankcase heater mode	P <sub>CK</sub>	0,000	kW

### Other items

Capacity control		variable	
Sound power level, indoors/outdoors	L <sub>WA</sub>	41 / 0	dB
Annual energy consumption	Q <sub>HE</sub>	5.568	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	--	1,24	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 C<sub>dh</sub> is not determined by measurement then the default degradation coefficient is C<sub>dh</sub> = 0,9.

# Technical parameters

- weishaupt -

Manufacturer:	Max Weishaupt GmbH
Model:	WGB 14-A-MD-I
	Brine - to-water heat pump
Low-temperature heat pump:	no
Equipped with a supplementary heater:	no
Heat pump combination heater:	
Application:	medium
Climate:	average

Item	Symbol	Value	Unit
<b>Rated heat output (*)</b>	Prated	13	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>	11,3	kW
T <sub>j</sub> = +2°C	P <sub>dh</sub>	7,5	kW
T <sub>j</sub> = +7°C	P <sub>dh</sub>	4,8	kW
T <sub>j</sub> = +12°C	P <sub>dh</sub>	2,7	kW
T <sub>j</sub> = bivalent temperature	P <sub>dh</sub>	12,6	kW
T <sub>j</sub> = operation limit temperature	P <sub>dh</sub>	12,6	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>	-10	°C

Item	Symbol	Value	Unit
<b>Seasonal space heating energy efficiency</b>	η <sub>s</sub>	150	%
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>	3,16	
T <sub>j</sub> = +2°C	COP <sub>d</sub>	3,99	
T <sub>j</sub> = +7°C	COP <sub>d</sub>	4,51	
T <sub>j</sub> = +12°C	COP <sub>d</sub>	4,54	
T <sub>j</sub> = bivalent temperature	COP <sub>d</sub>	2,97	
T <sub>j</sub> = operation limit temperature	COP <sub>d</sub>	2,97	
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	-10	°C
Heating water operating limit temperature	WTOL	65	°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>	0,97
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>	0,018	kW
Thermostat-off mode	P <sub>TO</sub>	0,017	kW
Standby mode	P <sub>SB</sub>	0,018	kW
Crankcase heater mode	P <sub>CK</sub>	0,000	kW

### Other items

Capacity control		variable	
Sound power level, indoors/outdoors	L <sub>WA</sub>	41 / 0	dB
Annual energy consumption	Q <sub>HE</sub>	6.793	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	--	1,05	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 C<sub>dh</sub> is not determined by measurement then the default degradation coefficient is C<sub>dh</sub> = 0,9.

# Technical parameters

- weishaupt -

Manufacturer:	Max Weishaupt GmbH
Model:	WGB 14-A-MD-I
	Brine - to-water heat pump
Low-temperature heat pump:	no
Equipped with a supplementary heater:	no
Heat pump combination heater:	
Application:	low
Climate:	colder

Item	Symbol	Value	Unit
<b>Rated heat output (*)</b>	Prated	14	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	8,5	kW
T <sub>j</sub> = +2°C	Pdh	4,7	kW
T <sub>j</sub> = +7°C	Pdh	3,5	kW
T <sub>j</sub> = +12°C	Pdh	2,4	kW
T <sub>j</sub> = bivalent temperature	Pdh	13,5	kW
T <sub>j</sub> = operation limit temperature	Pdh	13,5	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>	-22	°C

Item	Symbol	Value	Unit
<b>Seasonal space heating energy efficiency</b>	η <sub>s</sub>	205	%
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	5,15	
T <sub>j</sub> = +2°C	COPd	5,72	
T <sub>j</sub> = +7°C	COPd	5,66	
T <sub>j</sub> = +12°C	COPd	5,13	
T <sub>j</sub> = bivalent temperature	COPd	4,25	
T <sub>j</sub> = operation limit temperature	COPd	4,25	
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	-22	°C
Heating water operating limit temperature	WTOL	65	°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	0,95
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>	0,018	kW
Thermostat-off mode	P <sub>TO</sub>	0,013	kW
Standby mode	P <sub>SB</sub>	0,018	kW
Crankcase heater mode	P <sub>CK</sub>	0,000	kW

### Other items

Capacity control		variable	
Sound power level, indoors/outdoors	L <sub>WA</sub>	41 / 0	dB
Annual energy consumption	Q <sub>HE</sub>	6.469	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	--	1,24	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:	WGB 14-A-MD-I
	Brine - to-water heat pump
Low-temperature heat pump:	no
Equipped with a supplementary heater:	no
Heat pump combination heater:	
Application:	medium
Climate:	colder

Item	Symbol	Value	Unit
<b>Rated heat output (*)</b>	Prated	13	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>	7,7	kW
T <sub>j</sub> = +2°C	P <sub>dh</sub>	4,8	kW
T <sub>j</sub> = +7°C	P <sub>dh</sub>	3,1	kW
T <sub>j</sub> = +12°C	P <sub>dh</sub>	2,6	kW
T <sub>j</sub> = bivalent temperature	P <sub>dh</sub>	12,6	kW
T <sub>j</sub> = operation limit temperature	P <sub>dh</sub>	12,6	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>	-22	°C

Item	Symbol	Value	Unit
<b>Seasonal space heating energy efficiency</b>	η <sub>s</sub>	152	%
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>	3,76	
T <sub>j</sub> = +2°C	COP <sub>d</sub>	4,29	
T <sub>j</sub> = +7°C	COP <sub>d</sub>	4,43	
T <sub>j</sub> = +12°C	COP <sub>d</sub>	4,68	
T <sub>j</sub> = bivalent temperature	COP <sub>d</sub>	2,97	
T <sub>j</sub> = operation limit temperature	COP <sub>d</sub>	2,97	
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	-22	°C
Heating water operating limit temperature	WTOL	65	°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>	0,95
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>	0,018	kW
Thermostat-off mode	P <sub>TO</sub>	0,017	kW
Standby mode	P <sub>SB</sub>	0,018	kW
Crankcase heater mode	P <sub>CK</sub>	0,000	kW

Other items

Capacity control		variable	
Sound power level, indoors/outdoors	L <sub>WA</sub>	41 / 0	dB
Annual energy consumption	Q <sub>HE</sub>	8.019	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	--	1,05	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 C<sub>dh</sub> is not determined by measurement then the default degradation coefficient is C<sub>dh</sub> = 0,9.

# Technical parameters

- weishaupt -

Manufacturer:	Max Weishaupt GmbH
Model:	WGB 14-A-MD-I
	Brine - to-water heat pump
Low-temperature heat pump:	no
Equipped with a supplementary heater:	no
Heat pump combination heater:	
Application:	low
Climate:	warmer

Item	Symbol	Value	Unit
<b>Rated heat output (*)</b>	Prated	14	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>	13,5	kW
T <sub>j</sub> = +7°C	P <sub>dh</sub>	8,8	kW
T <sub>j</sub> = +12°C	P <sub>dh</sub>	3,9	kW
T <sub>j</sub> = bivalent temperature	P <sub>dh</sub>	13,5	kW
T <sub>j</sub> = operation limit temperature	P <sub>dh</sub>	13,5	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>	199	%
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>	4,25	
T <sub>j</sub> = +7°C	COP <sub>d</sub>	5,00	
T <sub>j</sub> = +12°C	COP <sub>d</sub>	5,66	
T <sub>j</sub> = bivalent temperature	COP <sub>d</sub>	4,25	
T <sub>j</sub> = operation limit temperature	COP <sub>d</sub>	4,25	
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	65	°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>	0,018	kW
Thermostat-off mode	P <sub>TO</sub>	0,013	kW
Standby mode	P <sub>SB</sub>	0,018	kW
Crankcase heater mode	P <sub>CK</sub>	0,000	kW

### Other items

Capacity control		variable	
Sound power level, indoors/outdoors	L <sub>WA</sub>	41 / 0	dB
Annual energy consumption	Q <sub>HE</sub>	3.623	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	--	1,24	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 C<sub>dh</sub> is not determined by measurement then the default degradation coefficient is C<sub>dh</sub> = 0,9.

# Technical parameters

- weishaupt -

Manufacturer:	Max Weishaupt GmbH
Model:	WGB 14-A-MD-I
	Brine - to-water heat pump
Low-temperature heat pump:	no
Equipped with a supplementary heater:	no
Heat pump combination heater:	
Application:	medium
Climate:	warmer

Item	Symbol	Value	Unit
<b>Rated heat output (*)</b>	Prated	13	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	12,6	kW
T <sub>j</sub> = +7°C	Pdh	8,1	kW
T <sub>j</sub> = +12°C	Pdh	3,9	kW
T <sub>j</sub> = bivalent temperature	Pdh	12,6	kW
T <sub>j</sub> = operation limit temperature	Pdh	12,6	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>	2	°C

Item	Symbol	Value	Unit
<b>Seasonal space heating energy efficiency</b>	η <sub>s</sub>	148	%
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	2,97	
T <sub>j</sub> = +7°C	COPd	3,58	
T <sub>j</sub> = +12°C	COPd	4,49	
T <sub>j</sub> = bivalent temperature	COPd	2,97	
T <sub>j</sub> = operation limit temperature	COPd	2,97	
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	2	°C
Heating water operating limit temperature	WTOL	65	°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: 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>	0,018	kW
Thermostat-off mode	P <sub>TO</sub>	0,017	kW
Standby mode	P <sub>SB</sub>	0,018	kW
Crankcase heater mode	P <sub>CK</sub>	0,000	kW

### Other items

Capacity control		variable	
Sound power level, indoors/outdoors	L <sub>WA</sub>	41 / 0	dB
Annual energy consumption	Q <sub>HE</sub>	4.458	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	--	1,05	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.