



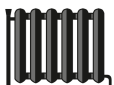
# ENERG

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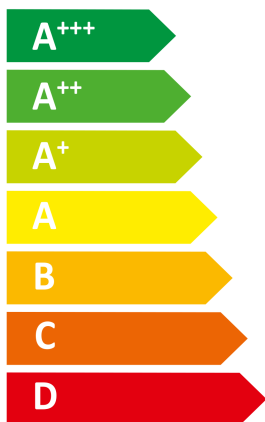
-weishaupt-

WWP L 12 AD(R)



55 °C

35 °C



0 dB



54 dB



2019

811/2013

# EU-Konformitätserklärung

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

Produkt: **Wärmeerzeuger** **WWP L 12 AD(R)**

Das Produkt ist konform mit den zutreffenden Anforderungen der Richtlinien:

**EDD 2009 / 125 / EC**

Prüfgrundlagen: 813/2013/EU, EN 12102:2008, EN 14511-1:2011, EN 14511-2:2011, EN 14511-3:2011, EN 14511-4:2011, EN 14825:2013

**ELR (EU) 2017 / 1369**

Prüfgrundlagen: 811/2013/EU

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 L 12 AD(R)		
Wärmeerzeuger			
Klasse für die jahreszeitbedingte Raumheizungs-Energieeffizienz (A+++ - D)	A++	A++	
Wärmenennleistung bei durchschnittlichen Klimaverhältnissen	7	7	kW
Jahreszeitbedingte Raumheizungs-Energieeffizienz bei durchschnittlichen Klimaverhältnissen	167	125	%
Jährlicher Energieverbrauch als Endenergie für Raumheizung bei durchschnittlichen Klimaverhältnissen	3237	4481	kWh
Schallleistungspegel im Gebäude, LWA	0		dB(A)
Besondere Vorkehrungen bei der Installation	siehe Manual		
Wärmenennleistung bei kälteren Klimaverhältnissen	5	6	kW
Wärmenennleistung bei wärmeren Klimaverhältnissen	10	9	kW
Jahreszeitbedingte Raumheizungs-Energieeffizienz bei kälteren Klimaverhältnissen	147	114	%
Jahreszeitbedingte Raumheizungs-Energieeffizienz bei wärmeren Klimaverhältnissen	205	149	%
Jährlicher Energieverbrauch für Raumheizung als Endenergie bei kälteren Klimaverhältnissen	3188	4802	kWh
Jährlicher Energieverbrauch für Raumheizung als Endenergie bei wärmeren Klimaverhältnissen	2461	3224	kWh
Schallleistungspegel im Freien, LWA	54		dB(A)

# Technical parameters

- weishaupt -

Manufacturer:	Max Weishaupt GmbH
Model:	WWP L 12 AD(R)
	Air-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	7	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>	7,3	kW
T <sub>j</sub> = +2°C	P <sub>dh</sub>	9,6	kW
T <sub>j</sub> = +7°C	P <sub>dh</sub>	11,6	kW
T <sub>j</sub> = +12°C	P <sub>dh</sub>	13,3	kW
T <sub>j</sub> = bivalent temperature	P <sub>dh</sub>	6,7	kW
T <sub>j</sub> = operation limit temperature	P <sub>dh</sub>	6,7	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>	167	%
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>	3,15	
T <sub>j</sub> = +2°C	COP <sub>d</sub>	4,29	
T <sub>j</sub> = +7°C	COP <sub>d</sub>	5,27	
T <sub>j</sub> = +12°C	COP <sub>d</sub>	6,34	
T <sub>j</sub> = bivalent temperature	COP <sub>d</sub>	2,85	
T <sub>j</sub> = operation limit temperature	COP <sub>d</sub>	2,85	
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	60	°C

Item	Symbol	Value
<b>Degradation co-efficient (**)</b>	C <sub>dh</sub>	
T <sub>j</sub> = -7°C	C <sub>dh</sub>	0,99
T <sub>j</sub> = +2°C	C <sub>dh</sub>	0,99
T <sub>j</sub> = +7°C	C <sub>dh</sub>	0,99
T <sub>j</sub> = +12°C	C <sub>dh</sub>	0,99
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>	0 / 54	dB
Annual energy consumption	Q <sub>HE</sub>	3.237	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	--	4.700	m <sup>3</sup> /h
For water-/brine-to water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	--		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:	WWP L 12 AD(R)
	Air-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	7	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>	7,4	kW
T <sub>j</sub> = +2°C	P <sub>dh</sub>	9,3	kW
T <sub>j</sub> = +7°C	P <sub>dh</sub>	10,9	kW
T <sub>j</sub> = +12°C	P <sub>dh</sub>	12,9	kW
T <sub>j</sub> = bivalent temperature	P <sub>dh</sub>	7,0	kW
T <sub>j</sub> = operation limit temperature	P <sub>dh</sub>	7,0	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>	125	%
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>	2,30	
T <sub>j</sub> = +2°C	COP <sub>d</sub>	3,18	
T <sub>j</sub> = +7°C	COP <sub>d</sub>	3,99	
T <sub>j</sub> = +12°C	COP <sub>d</sub>	4,96	
T <sub>j</sub> = bivalent temperature	COP <sub>d</sub>	2,12	
T <sub>j</sub> = operation limit temperature	COP <sub>d</sub>	2,12	
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	60	°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>	0,99
T <sub>j</sub> = +7°C	C <sub>dh</sub>	0,99
T <sub>j</sub> = +12°C	C <sub>dh</sub>	0,99
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>	0 / 54	dB
Annual energy consumption	Q <sub>HE</sub>	4.481	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	--	4.700	m <sup>3</sup> /h
For water-/brine-to water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	--		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:	WWP L 12 AD(R)
	Air-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	5	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	7,2	kW
T <sub>j</sub> = +2°C	Pdh	9,7	kW
T <sub>j</sub> = +7°C	Pdh	11,7	kW
T <sub>j</sub> = +12°C	Pdh	13,3	kW
T <sub>j</sub> = bivalent temperature	Pdh	4,6	kW
T <sub>j</sub> = operation limit temperature	Pdh	4,2	kW
For air-to-water heat pumps: T <sub>j</sub> = -15°C (if TOL < -20°C)	Pdh	5,6	kW
Bivalent temperature	T <sub>biv</sub>	-20	°C

Item	Symbol	Value	Unit
<b>Seasonal space heating energy efficiency</b>	η <sub>s</sub>	147	%
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	3,33	
T <sub>j</sub> = +2°C	COPd	4,53	
T <sub>j</sub> = +7°C	COPd	5,47	
T <sub>j</sub> = +12°C	COPd	6,31	
T <sub>j</sub> = bivalent temperature	COPd	1,96	
T <sub>j</sub> = operation limit temperature	COPd	1,77	
For air-to-water heat pumps: T <sub>j</sub> = -15°C (if TOL < -20°C)	COPd	2,46	
For air-to-water heat pumps: Operation limit temperature	TOL	-22	°C
Heating water operating limit temperature	WTOL	60	°C

Item	Symbol	Value
<b>Degradation co-efficient (**)</b>	Cdh	
T <sub>j</sub> = -7°C	Cdh	0,99
T <sub>j</sub> = +2°C	Cdh	0,99
T <sub>j</sub> = +7°C	Cdh	0,99
T <sub>j</sub> = +12°C	Cdh	0,99
For air-to-water heat pumps: T <sub>j</sub> = -15°C (if TOL < -20°C)	Cdh	0,99

### 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>	0 / 54	dB
Annual energy consumption	Q <sub>HE</sub>	3.188	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>	0,62	kW
Type of energy input	electricity		

For air-to-water heat pumps: Rated air flow rate, outdoors	--	4.700	m <sup>3</sup> /h
For water-/brine-to water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	--		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.

# Technical parameters

- weishaupt -

Manufacturer:	Max Weishaupt GmbH
Model:	WWP L 12 AD(R)
	Air-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	6	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>	7,3	kW
T <sub>j</sub> = +2°C	P <sub>dh</sub>	9,4	kW
T <sub>j</sub> = +7°C	P <sub>dh</sub>	11,1	kW
T <sub>j</sub> = +12°C	P <sub>dh</sub>	12,9	kW
T <sub>j</sub> = bivalent temperature	P <sub>dh</sub>	5,4	kW
T <sub>j</sub> = operation limit temperature	P <sub>dh</sub>	5,2	kW
For air-to-water heat pumps: T <sub>j</sub> = -15°C (if TOL < -20°C)	P <sub>dh</sub>	6,1	kW
Bivalent temperature	T <sub>biv</sub>	-20	°C

Item	Symbol	Value	Unit
<b>Seasonal space heating energy efficiency</b>	η <sub>s</sub>	114	%
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>	2,52	
T <sub>j</sub> = +2°C	COP <sub>d</sub>	3,42	
T <sub>j</sub> = +7°C	COP <sub>d</sub>	4,28	
T <sub>j</sub> = +12°C	COP <sub>d</sub>	5,14	
T <sub>j</sub> = bivalent temperature	COP <sub>d</sub>	1,74	
T <sub>j</sub> = operation limit temperature	COP <sub>d</sub>	1,64	
For air-to-water heat pumps: T <sub>j</sub> = -15°C (if TOL < -20°C)	COP <sub>d</sub>	2,01	
For air-to-water heat pumps: Operation limit temperature	TOL	-22	°C
Heating water operating limit temperature	WTOL	60	°C

Item	Symbol	Value
<b>Degradation co-efficient (**)</b>	C <sub>dh</sub>	
T <sub>j</sub> = -7°C	C <sub>dh</sub>	0,99
T <sub>j</sub> = +2°C	C <sub>dh</sub>	0,99
T <sub>j</sub> = +7°C	C <sub>dh</sub>	0,99
T <sub>j</sub> = +12°C	C <sub>dh</sub>	0,99
For air-to-water heat pumps: 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>	0 / 54	dB
Annual energy consumption	Q <sub>HE</sub>	4.802	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>	0,52	kW
Type of energy input	electricity		

For air-to-water heat pumps: Rated air flow rate, outdoors	--	4.700	m <sup>3</sup> /h
For water-/brine-to water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	--		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:	WWP L 12 AD(R)
	Air-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	10	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>	9,6	kW
T <sub>j</sub> = +7°C	P <sub>dh</sub>	11,5	kW
T <sub>j</sub> = +12°C	P <sub>dh</sub>	13,3	kW
T <sub>j</sub> = bivalent temperature	P <sub>dh</sub>	9,6	kW
T <sub>j</sub> = operation limit temperature	P <sub>dh</sub>	9,6	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>	2	°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	COP <sub>d</sub>		
T <sub>j</sub> = +2°C	COP <sub>d</sub>	4,05	
T <sub>j</sub> = +7°C	COP <sub>d</sub>	4,98	
T <sub>j</sub> = +12°C	COP <sub>d</sub>	6,14	
T <sub>j</sub> = bivalent temperature	COP <sub>d</sub>	4,05	
T <sub>j</sub> = operation limit temperature	COP <sub>d</sub>	4,05	
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	60	°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>	0,99
T <sub>j</sub> = +7°C	C <sub>dh</sub>	0,99
T <sub>j</sub> = +12°C	C <sub>dh</sub>	0,99
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>	0 / 54	dB
Annual energy consumption	Q <sub>HE</sub>	2.461	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	--	4.700	m <sup>3</sup> /h
For water-/brine-to water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	--		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:	WWP L 12 AD(R)
	Air-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	9	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	9,2	kW
T <sub>j</sub> = +7°C	Pdh	10,5	kW
T <sub>j</sub> = +12°C	Pdh	12,7	kW
T <sub>j</sub> = bivalent temperature	Pdh	9,2	kW
T <sub>j</sub> = operation limit temperature	Pdh	9,2	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>	149	%
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	2,72	
T <sub>j</sub> = +7°C	COPd	3,44	
T <sub>j</sub> = +12°C	COPd	4,67	
T <sub>j</sub> = bivalent temperature	COPd	2,72	
T <sub>j</sub> = operation limit temperature	COPd	2,72	
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	60	°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	0,99
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>	0 / 54	dB
Annual energy consumption	Q <sub>HE</sub>	3.224	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	--	4.700	m <sup>3</sup> /h
For water-/brine-to water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	--		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.