



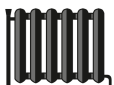
# ENERG

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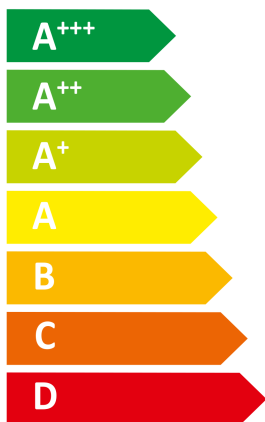
-weishaupt-

WSB 15-A-RMD-AI



55 °C

35 °C



**0** dB

**65** dB

■ 9	■ 10
■ 13	■ 12
■ 11	■ 12
kW	kW

2019

811/2013

## Produktdaten

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

Produkt: **Wärmeerzeuger** **WSB 15-A-RMD-AI**

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 12102:2013, EN 14511:2013, EN 14825:2016

	Temperaturanwendung		
	35°C	55°C	
Wärmeerzeuger	WSB 15-A-RMD-AI		
Klasse für die jahreszeitbedingte Raumheizungs-Energieeffizienz (A+++ - D)	A+++	A++	
Wärmenennleistung bei durchschnittlichen Klimaverhältnissen	12	13	kW
Jahreszeitbedingte Raumheizungs-Energieeffizienz bei durchschnittlichen Klimaverhältnissen	176	126	%
Jährlicher Energieverbrauch als Endenergie für Raumheizung bei durchschnittlichen Klimaverhältnissen	5715	8336	kWh
Schalleistungspegel im Gebäude, LWA	0		dB(A)
Besondere Vorkehrungen bei der Installation	siehe manual		
Wärmenennleistung bei kälteren Klimaverhältnissen	10	9	kW
Wärmenennleistung bei wärmeren Klimaverhältnissen	12	11	kW
Jahreszeitbedingte Raumheizungs-Energieeffizienz bei kälteren Klimaverhältnissen	138	113	%
Jahreszeitbedingte Raumheizungs-Energieeffizienz bei wärmeren Klimaverhältnissen	217	156	%
Jährlicher Energieverbrauch für Raumheizung als Endenergie bei kälteren Klimaverhältnissen	6953	7449	kWh
Jährlicher Energieverbrauch für Raumheizung als Endenergie bei wärmeren Klimaverhältnissen	2887	3774	kWh
Schalleistungspegel im Freien, LWA	65		dB(A)

# Technical parameters

- weishaupt -

Manufacturer:	Max Weishaupt GmbH
Model:	WSB 15-A-RMD-AI
	Air-to-water heat pump
Low-temperature heat pump:	Nein
Equipped with a supplementary heater:	Ja
Heat pump combination heater:	Nein
Application:	low
Climate:	average

Item	Symbol	Value	Unit
<b>Rated heat output (*)</b>	Prated	12	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>	10,0	kW
T <sub>j</sub> = +2°C	P <sub>dh</sub>	6,9	kW
T <sub>j</sub> = +7°C	P <sub>dh</sub>	5,1	kW
T <sub>j</sub> = +12°C	P <sub>dh</sub>	5,9	kW
T <sub>j</sub> = bivalent temperature	P <sub>dh</sub>	8,8	kW
T <sub>j</sub> = operation limit temperature	P <sub>dh</sub>	10,3	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>	-4	°C

Item	Symbol	Value	Unit
<b>Seasonal space heating energy efficiency</b>	η <sub>s</sub>	176	%
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>	2,69	
T <sub>j</sub> = +2°C	COP <sub>d</sub>	4,48	
T <sub>j</sub> = +7°C	COP <sub>d</sub>	6,37	
T <sub>j</sub> = +12°C	COP <sub>d</sub>	8,42	
T <sub>j</sub> = bivalent temperature	COP <sub>d</sub>	3,11	
T <sub>j</sub> = operation limit temperature	COP <sub>d</sub>	2,62	
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	55	°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>	0,90
T <sub>j</sub> = +12°C	C <sub>dh</sub>	0,90
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>	0,017	kW
Thermostat-off mode	P <sub>TO</sub>	0,036	kW
Standby mode	P <sub>SB</sub>	0,019	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>	0 / 65	dB
Annual energy consumption	Q <sub>HE</sub>	5.715	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>		kW
Type of energy input	Electricity		

For air-to-water heat pumps: Rated air flow rate, outdoors	--	4.210	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:	WSB 15-A-RMD-AI
	Air-to-water heat pump
Low-temperature heat pump:	Nein
Equipped with a supplementary heater:	Ja
Heat pump combination heater:	Nein
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>	10,5	kW
T <sub>j</sub> = +2°C	P <sub>dh</sub>	6,8	kW
T <sub>j</sub> = +7°C	P <sub>dh</sub>	4,5	kW
T <sub>j</sub> = +12°C	P <sub>dh</sub>	5,5	kW
T <sub>j</sub> = bivalent temperature	P <sub>dh</sub>	8,9	kW
T <sub>j</sub> = operation limit temperature	P <sub>dh</sub>	9,4	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>	126	%
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>	2,11	
T <sub>j</sub> = +2°C	COP <sub>d</sub>	3,02	
T <sub>j</sub> = +7°C	COP <sub>d</sub>	4,62	
T <sub>j</sub> = +12°C	COP <sub>d</sub>	6,32	
T <sub>j</sub> = bivalent temperature	COP <sub>d</sub>	2,56	
T <sub>j</sub> = operation limit temperature	COP <sub>d</sub>	1,82	
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	55	°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>	0,017	kW
Thermostat-off mode	P <sub>TO</sub>	0,011	kW
Standby mode	P <sub>SB</sub>	0,019	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>	0 / 65	dB
Annual energy consumption	Q <sub>HE</sub>	8.336	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>		kW
Type of energy input	Electricity		

For air-to-water heat pumps: Rated air flow rate, outdoors	--	4.210	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 C<sub>dh</sub> is not determined by measurement then the default degradation coefficient is C<sub>dh</sub> = 0,9.