



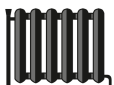
ENERG

енергия · ενεργεια



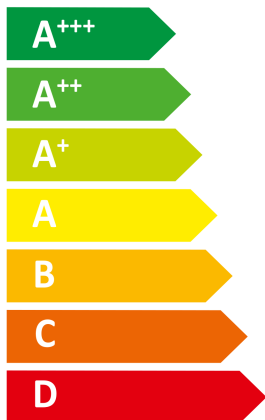
–weishaupt–

WSB 12-A-RMD-AI



55 °C

35 °C



0 dB



61 dB



2019

811/2013

Produktdaten

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

Produkt: **Wärmeerzeuger** **WSB 12-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 12-A-RMD-AI		
Klasse für die jahreszeitbedingte Raumheizungs-Energieeffizienz (A+++ - D)	A++	A++	
Wärmenennleistung bei durchschnittlichen Klimaverhältnissen	10	8	kW
Jahreszeitbedingte Raumheizungs-Energieeffizienz bei durchschnittlichen Klimaverhältnissen	168	132	%
Jährlicher Energieverbrauch als Endenergie für Raumheizung bei durchschnittlichen Klimaverhältnissen	4986	5062	kWh
Schalleistungspegel im Gebäude, LWA	0		dB(A)
Besondere Vorkehrungen bei der Installation	siehe manual		
Wärmenennleistung bei kälteren Klimaverhältnissen	9	10	kW
Wärmenennleistung bei wärmeren Klimaverhältnissen	10	9	kW
Jahreszeitbedingte Raumheizungs-Energieeffizienz bei kälteren Klimaverhältnissen	144	104	%
Jahreszeitbedingte Raumheizungs-Energieeffizienz bei wärmeren Klimaverhältnissen	249	173	%
Jährlicher Energieverbrauch für Raumheizung als Endenergie bei kälteren Klimaverhältnissen	5976	9487	kWh
Jährlicher Energieverbrauch für Raumheizung als Endenergie bei wärmeren Klimaverhältnissen	2166	2792	kWh
Schalleistungspegel im Freien, LWA	61		dB(A)

Technical parameters

- weishaupt -

Manufacturer:	Max Weishaupt GmbH
Model:	WSB 12-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
Rated heat output (*)	Prated	10	kW
Declared capacity for heating for part load at indoor temperature 20°C and outdoor temperature T _j			
T _j = -7°C	P _{dh}	9,1	kW
T _j = +2°C	P _{dh}	5,4	kW
T _j = +7°C	P _{dh}	4,9	kW
T _j = +12°C	P _{dh}	5,7	kW
T _j = bivalent temperature	P _{dh}	7,9	kW
T _j = operation limit temperature	P _{dh}	8,5	kW
For air-to-water heat pumps: T _j = -15°C (if TOL < -20°C)	P _{dh}		kW
Bivalent temperature	T _{biv}	-5	°C

Item	Symbol	Value	Unit
Seasonal space heating energy efficiency	η _s	168	%
Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20°C and outdoor temperature T _j			
T _j = -7°C	COP _d	2,78	
T _j = +2°C	COP _d	4,19	
T _j = +7°C	COP _d	6,05	
T _j = +12°C	COP _d	7,97	
T _j = bivalent temperature	COP _d	2,88	
T _j = operation limit temperature	COP _d	2,54	
For air-to-water heat pumps: T _j = -15°C (if TOL < -20°C)	COP _d		
For air-to-water heat pumps: Operation limit temperature	TOL	-10	°C
Heating water operating limit temperature	WTOL	55	°C

Item	Symbol	Value
Degradation co-efficient (**)	C _{dh}	
T _j = -7°C	C _{dh}	1,00
T _j = +2°C	C _{dh}	1,00
T _j = +7°C	C _{dh}	0,91
T _j = +12°C	C _{dh}	0,90
For air-to-water heat pumps: T _j = -15°C (if TOL < -20°C)	C _{dh}	

Power consumption in modes other than active mode

Off mode	P _{OFF}	0,018	kW
Thermostat-off mode	P _{TO}	0,031	kW
Standby mode	P _{SB}	0,020	kW
Crankcase heater mode	P _{CK}	0,000	kW

Other items

Capacity control		variable	
Sound power level, indoors/outdoors	L _{WA}	0 / 61	dB
Annual energy consumption	Q _{HE}	4.986	kWh

For heat combination heater:

Declared load profile			
Daily electricity consumption	Q _{elec}		kWh

Supplementary heater

Rated heat output (*)	P _{sup}		kW
Type of energy input	Electricity		

For air-to-water heat pumps: Rated air flow rate, outdoors	--	3.460	m ³ /h
For water-/brine-to water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	--		m ³ /h

Water heating energy efficiency	η _{wh}		%
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(T_j).

(**) If C_{dh} is not determined by measurement then the default degradation coefficient is C_{dh} = 0,9.

Technical parameters

- weishaupt -

Manufacturer:	Max Weishaupt GmbH
Model:	WSB 12-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
Rated heat output (*)	Prated	8	kW
Declared capacity for heating for part load at indoor temperature 20°C and outdoor temperature T _j			
T _j = -7°C	P _{dh}	7,7	kW
T _j = +2°C	P _{dh}	4,8	kW
T _j = +7°C	P _{dh}	4,9	kW
T _j = +12°C	P _{dh}	5,2	kW
T _j = bivalent temperature	P _{dh}	7,5	kW
T _j = operation limit temperature	P _{dh}	7,2	kW
For air-to-water heat pumps: T _j = -15°C (if TOL < -20°C)	P _{dh}		kW
Bivalent temperature	T _{biv}	-5	°C

Item	Symbol	Value	Unit
Seasonal space heating energy efficiency	η _s	132	%
Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20°C and outdoor temperature T _j			
T _j = -7°C	COP _d	1,97	
T _j = +2°C	COP _d	3,43	
T _j = +7°C	COP _d	4,67	
T _j = +12°C	COP _d	5,68	
T _j = bivalent temperature	COP _d	2,20	
T _j = operation limit temperature	COP _d	1,58	
For air-to-water heat pumps: T _j = -15°C (if TOL < -20°C)	COP _d		
For air-to-water heat pumps: Operation limit temperature	TOL	-10	°C
Heating water operating limit temperature	WTOL	55	°C

Item	Symbol	Value
Degradation co-efficient (**)	C _{dh}	
T _j = -7°C	C _{dh}	1,00
T _j = +2°C	C _{dh}	1,00
T _j = +7°C	C _{dh}	0,96
T _j = +12°C	C _{dh}	0,94
For air-to-water heat pumps: T _j = -15°C (if TOL < -20°C)	C _{dh}	

Power consumption in modes other than active mode

Off mode	P _{OFF}	0,018	kW
Thermostat-off mode	P _{TO}	0,013	kW
Standby mode	P _{SB}	0,020	kW
Crankcase heater mode	P _{CK}	0,000	kW

Other items

Capacity control		variable	
Sound power level, indoors/outdoors	L _{WA}	0 / 61	dB
Annual energy consumption	Q _{HE}	5.062	kWh

For heat combination heater:

Declared load profile			
Daily electricity consumption	Q _{elec}		kWh

Supplementary heater

Rated heat output (*)	P _{sup}		kW
Type of energy input	Electricity		

For air-to-water heat pumps: Rated air flow rate, outdoors	--	3.460	m ³ /h
For water-/brine-to water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	--		m ³ /h

Water heating energy efficiency	η _{wh}		%
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_{dh} is not determined by measurement then the default degradation coefficient is C_{dh} = 0,9.