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WSB 15-A-RMD-AI

	55 °C	35 °C
	A++	A+++

A+++
A++
A+
A
B
C
D

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
Schallleistungspegel 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
Schallleistungspegel 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
Rated heat output (*)	Prated	12	kW
Declared capacity for heating for part load at indoor temperature 20°C and outdoor temperature T_j			
T_j = -7°C	Pdh	10,0	kW
T_j = +2°C	Pdh	6,9	kW
T_j = +7°C	Pdh	5,1	kW
T_j = +12°C	Pdh	5,9	kW
T_j = bivalent temperature	Pdh	8,8	kW
T_j = operation limit temperature	Pdh	10,3	kW
For air-to-water heat pumps: T_j = -15°C (if TOL <-20°C)	Pdh		kW
Bivalent temperature	T_{biv}	-4	°C

Item	Symbol	Value	Unit
Seasonal space heating energy efficiency	ηs	176	**%**
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	COPd	2,69	
T_j = +2°C	COPd	4,48	
T_j = +7°C	COPd	6,37	
T_j = +12°C	COPd	8,42	
T_j = bivalent temperature	COPd	3,11	
T_j = operation limit temperature	COPd	2,62	
For air-to-water heat pumps: T_j = -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	55	°C

Item	Symbol	Value
Degradation co-efficient (**)	Cdh	
T_j = -7°C	Cdh	1,00
T_j = +2°C	Cdh	1,00
T_j = +7°C	Cdh	0,90
T_j = +12°C	Cdh	0,90
For air-to-water heat pumps: T_j = -15°C (if TOL <-20°C)	Cdh	

Power consumption in modes other than active mode

Off mode	P_{OFF}	0,017	kW
Thermostat-off mode	P_{TO}	0,036	kW
Standby mode	P_{SB}	0,019	kW
Crankcase heater mode	P_{CK}	0,000	kW

Supplementary heater

Rated heat output (*)	Psup		kW
Type of energy input		Electricity	

Other items

Capacity control		variable	
Sound power level, indoors/outdoors	L_{WA}	0 / 65	dB
Annual energy consumption	Q_{HE}	5.715	kWh

For air-to-water heat pumps: Rated air flow rate, outdoors	--	4.210	m^3/h
For water-/brine-to water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	--		m^3/h

For heat combination heater:

Declared load profile			
Daily electricity consumption	Qelec		kWh

Water heating energy efficiency	ηwh		%
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:	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
Rated heat output (*)	Prated	13	kW
Declared capacity for heating for part load at indoor temperature 20°C and outdoor temperature T_j			
T_j = -7°C	Pdh	10,5	kW
T_j = +2°C	Pdh	6,8	kW
T_j = +7°C	Pdh	4,5	kW
T_j = +12°C	Pdh	5,5	kW
T_j = bivalent temperature	Pdh	8,9	kW
T_j = operation limit temperature	Pdh	9,4	kW
For air-to-water heat pumps: T_j = -15°C (if TOL <-20°C)	Pdh		kW
Bivalent temperature	T_{biv}	-2	°C

Item	Symbol	Value	Unit
Seasonal space heating energy efficiency	ηs	126	**%**
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	COPd	2,11	
T_j = +2°C	COPd	3,02	
T_j = +7°C	COPd	4,62	
T_j = +12°C	COPd	6,32	
T_j = bivalent temperature	COPd	2,56	
T_j = operation limit temperature	COPd	1,82	
For air-to-water heat pumps: T_j = -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	55	°C

Item	Symbol	Value
Degradation co-efficient (**)	Cdh	
T_j = -7°C	Cdh	1,00
T_j = +2°C	Cdh	1,00
T_j = +7°C	Cdh	1,00
T_j = +12°C	Cdh	0,95
For air-to-water heat pumps: T_j = -15°C (if TOL <-20°C)	Cdh	

Power consumption in modes other than active mode

Off mode	P_{OFF}	0,017	kW
Thermostat-off mode	P_{TO}	0,011	kW
Standby mode	P_{SB}	0,019	kW
Crankcase heater mode	P_{CK}	0,000	kW

Supplementary heater

Rated heat output (*)	Psup		kW
Type of energy input		Electricity	

Other items

Capacity control		variable	
Sound power level, indoors/outdoors	L_{WA}	0 / 65	dB
Annual energy consumption	Q_{HE}	8.336	kWh

For air-to-water heat pumps: Rated air flow rate, outdoors	--	4.210	m^3/h
For water-/brine-to water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	--		m^3/h

For heat combination heater:

Declared load profile			
Daily electricity consumption	Qelec		kWh

Water heating energy efficiency	ηwh		%
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.