



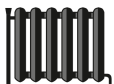
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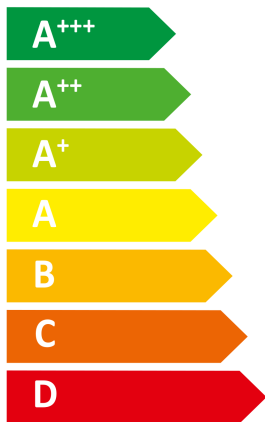
-weishaupt-

WBB 12-A-RMD-AI



55 °C

35 °C



43 dB



46 dB



2019

811/2013

Produktdaten

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

Produkt: **Wärmeerzeuger** **WBB 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 14511:2018, EN 14825:2016

	Temperaturanwendung		
	35°C	55°C	
	WBB 12-A-RMD-AI		
Wärmeerzeuger	A+++	A++	
Klasse für die jahreszeitbedingte Raumheizungs-Energieeffizienz (A+++ - D)			
Wärmenennleistung bei durchschnittlichen Klimaverhältnissen	9	9	kW
Jahreszeitbedingte Raumheizungs-Energieeffizienz bei durchschnittlichen Klimaverhältnissen	188	146	%
Jährlicher Energieverbrauch als Endenergie für Raumheizung bei durchschnittlichen Klimaverhältnissen	3892	4763	kWh
Schalleistungspegel im Gebäude, LWA	43		dB(A)
Besondere Vorkehrungen bei der Installation	siehe manual		
Wärmenennleistung bei kälteren Klimaverhältnissen	11	11	kW
Wärmenennleistung bei wärmeren Klimaverhältnissen	9	9	kW
Jahreszeitbedingte Raumheizungs-Energieeffizienz bei kälteren Klimaverhältnissen	156	129	%
Jahreszeitbedingte Raumheizungs-Energieeffizienz bei wärmeren Klimaverhältnissen	205	160	%
Jährlicher Energieverbrauch für Raumheizung als Endenergie bei kälteren Klimaverhältnissen	6520	7872	kWh
Jährlicher Energieverbrauch für Raumheizung als Endenergie bei wärmeren Klimaverhältnissen	2188	2788	kWh
Schalleistungspegel im Freien, LWA	46		dB(A)

Technical parameters

- weishaupt -

Manufacturer:	Max Weishaupt GmbH
Model:	WBB 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	9	kW
Declared capacity for heating for part load at indoor temperature 20°C and outdoor temperature Tj			
Tj = -7°C	Pdh	7,5	kW
Tj = +2°C	Pdh	4,9	kW
Tj = +7°C	Pdh	3,2	kW
Tj = +12°C	Pdh	2,9	kW
Tj = bivalent temperature	Pdh	7,5	kW
Tj = operation limit temperature	Pdh	7,4	kW
For air-to-water heat pumps: Tj = -15°C (if TOL < -20°C)	Pdh		kW
Bivalent temperature	Tbiv	-7	°C

Item	Symbol	Value	Unit
Seasonal space heating energy efficiency	ηs	188	%
Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20°C and outdoor temperature Tj			
Tj = -7°C	COPd	3,22	
Tj = +2°C	COPd	4,80	
Tj = +7°C	COPd	5,92	
Tj = +12°C	COPd	6,53	
Tj = bivalent temperature	COPd	3,22	
Tj = operation limit temperature	COPd	2,99	
For air-to-water heat pumps: Tj = -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	65	°C

Item	Symbol	Value
Degradation co-efficient (**)	Cdh	
Tj = -7°C	Cdh	1,00
Tj = +2°C	Cdh	1,00
Tj = +7°C	Cdh	1,00
Tj = +12°C	Cdh	0,97
For air-to-water heat pumps: Tj = -15°C (if TOL < -20°C)	Cdh	

Power consumption in modes other than active mode

Off mode	P _{OFF}	0,020	kW
Thermostat-off mode	P _{TO}	0,016	kW
Standby mode	P _{SB}	0,020	kW
Crankcase heater mode	P _{CK}	0,020	kW

Other items

Capacity control		variable	
Sound power level, indoors/outdoors	L _{WA}	43 / 46	dB
Annual energy consumption	Q _{HE}	3.892	kWh

For heat combination heater:

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

Supplementary heater

Rated heat output (*)	P _{sup}	1,60	kW
Type of energy input	electricity		

For air-to-water heat pumps: Rated air flow rate, outdoors	--	2.663	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 Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0,9.

Technical parameters

- weishaupt -

Manufacturer:	Max Weishaupt GmbH
Model:	WBB 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	9	kW
Declared capacity for heating for part load at indoor temperature 20°C and outdoor temperature Tj			
Tj = -7°C	Pdh	7,5	kW
Tj = +2°C	Pdh	4,7	kW
Tj = +7°C	Pdh	3,0	kW
Tj = +12°C	Pdh	2,8	kW
Tj = bivalent temperature	Pdh	7,5	kW
Tj = operation limit temperature	Pdh	7,9	kW
For air-to-water heat pumps: Tj = -15°C (if TOL < -20°C)	Pdh		kW
Bivalent temperature	Tbiv	-7	°C

Item	Symbol	Value	Unit
Seasonal space heating energy efficiency	ηs	146	%
Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20°C and outdoor temperature Tj			
Tj = -7°C	COPd	2,57	
Tj = +2°C	COPd	3,70	
Tj = +7°C	COPd	4,51	
Tj = +12°C	COPd	5,59	
Tj = bivalent temperature	COPd	2,57	
Tj = operation limit temperature	COPd	2,27	
For air-to-water heat pumps: Tj = -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	65	°C

Item	Symbol	Value
Degradation co-efficient (**)	Cdh	
Tj = -7°C	Cdh	1,00
Tj = +2°C	Cdh	1,00
Tj = +7°C	Cdh	1,00
Tj = +12°C	Cdh	0,93
For air-to-water heat pumps: Tj = -15°C (if TOL < -20°C)	Cdh	

Power consumption in modes other than active mode

Off mode	P _{OFF}	0,020	kW
Thermostat-off mode	P _{TO}	0,016	kW
Standby mode	P _{SB}	0,020	kW
Crankcase heater mode	P _{CK}	0,020	kW

Other items

Capacity control		variable	
Sound power level, indoors/outdoors	L _{WA}	43 / 46	dB
Annual energy consumption	Q _{HE}	4.763	kWh

For heat combination heater:

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

Supplementary heater

Rated heat output (*)	P _{sup}	0,70	kW
Type of energy input	electricity		

For air-to-water heat pumps: Rated air flow rate, outdoors	--	2.663	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

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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.

Technical parameters

- weishaupt -

Manufacturer:	Max Weishaupt GmbH
Model:	WBB 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:	colder

Item	Symbol	Value	Unit
Rated heat output (*)	Prated	11	kW
Declared capacity for heating for part load at indoor temperature 20°C and outdoor temperature T _j			
T _j = -7°C	P _{dh}	6,5	kW
T _j = +2°C	P _{dh}	4,0	kW
T _j = +7°C	P _{dh}	3,0	kW
T _j = +12°C	P _{dh}	2,8	kW
T _j = bivalent temperature	P _{dh}	7,1	kW
T _j = operation limit temperature	P _{dh}	5,6	kW
For air-to-water heat pumps: T _j = -15°C (if TOL < -20°C)	P _{dh}	6,6	kW
Bivalent temperature	T _{biv}	-10	°C

Item	Symbol	Value	Unit
Seasonal space heating energy efficiency	η _s	156	%
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	3,53	
T _j = +2°C	COP _d	5,12	
T _j = +7°C	COP _d	5,62	
T _j = +12°C	COP _d	5,72	
T _j = bivalent temperature	COP _d	3,15	
T _j = operation limit temperature	COP _d	2,41	
For air-to-water heat pumps: T _j = -15°C (if TOL < -20°C)	COP _d	2,83	
For air-to-water heat pumps: Operation limit temperature	TOL	-22	°C
Heating water operating limit temperature	WTOL	65	°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}	0,93
T _j = +12°C	C _{dh}	0,92
For air-to-water heat pumps: T _j = -15°C (if TOL < -20°C)	C _{dh}	1,00

Power consumption in modes other than active mode

Off mode	P _{OFF}	0,020	kW
Thermostat-off mode	P _{TO}	0,016	kW
Standby mode	P _{SB}	0,020	kW
Crankcase heater mode	P _{CK}	0,020	kW

Other items

Capacity control		variable	
Sound power level, indoors/outdoors	L _{WA}	43 / 46	dB
Annual energy consumption	Q _{HE}	6.520	kWh

For heat combination heater:

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

Supplementary heater

Rated heat output (*)	P _{sup}	4,90	kW
Type of energy input	electricity		

For air-to-water heat pumps: Rated air flow rate, outdoors	--	2.663	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

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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_{dh} is not determined by measurement then the default degradation coefficient is C_{dh} = 0,9.

Technical parameters

- weishaupt -

Manufacturer:	Max Weishaupt GmbH
Model:	WBB 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:	colder

Item	Symbol	Value	Unit
Rated heat output (*)	Prated	11	kW
Declared capacity for heating for part load at indoor temperature 20°C and outdoor temperature T _j			
T _j = -7°C	P _{dh}	6,4	kW
T _j = +2°C	P _{dh}	4,0	kW
T _j = +7°C	P _{dh}	2,9	kW
T _j = +12°C	P _{dh}	2,8	kW
T _j = bivalent temperature	P _{dh}	7,2	kW
T _j = operation limit temperature	P _{dh}	5,8	kW
For air-to-water heat pumps: T _j = -15°C (if TOL < -20°C)	P _{dh}	6,8	kW
Bivalent temperature	T _{biv}	-10	°C

Item	Symbol	Value	Unit
Seasonal space heating energy efficiency	η _s	129	%
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	2,86	
T _j = +2°C	COP _d	4,02	
T _j = +7°C	COP _d	4,66	
T _j = +12°C	COP _d	5,63	
T _j = bivalent temperature	COP _d	2,63	
T _j = operation limit temperature	COP _d	1,90	
For air-to-water heat pumps: T _j = -15°C (if TOL < -20°C)	COP _d	2,29	
For air-to-water heat pumps: Operation limit temperature	TOL	-22	°C
Heating water operating limit temperature	WTOL	65	°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}	0,95
For air-to-water heat pumps: T _j = -15°C (if TOL < -20°C)	C _{dh}	1,00

Power consumption in modes other than active mode

Off mode	P _{OFF}	0,020	kW
Thermostat-off mode	P _{TO}	0,016	kW
Standby mode	P _{SB}	0,020	kW
Crankcase heater mode	P _{CK}	0,020	kW

Other items

Capacity control		variable	
Sound power level, indoors/outdoors	L _{WA}	43 / 46	dB
Annual energy consumption	Q _{HE}	7.872	kWh

For heat combination heater:

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

Supplementary heater

Rated heat output (*)	P _{sup}	4,70	kW
Type of energy input	electricity		

For air-to-water heat pumps: Rated air flow rate, outdoors	--	2.663	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

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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_{dh} is not determined by measurement then the default degradation coefficient is C_{dh} = 0,9.

Technical parameters

- weishaupt -

Manufacturer:	Max Weishaupt GmbH
Model:	WBB 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:	warmer

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

Item	Symbol	Value	Unit
Seasonal space heating energy efficiency	η _s	205	%
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		
T _j = +2°C	COP _d	3,87	
T _j = +7°C	COP _d	5,24	
T _j = +12°C	COP _d	5,56	
T _j = bivalent temperature	COP _d	3,87	
T _j = operation limit temperature	COP _d	3,87	
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	2	°C
Heating water operating limit temperature	WTOL	65	°C

Item	Symbol	Value
Degradation co-efficient (**)	C _{dh}	
T _j = -7°C	C _{dh}	
T _j = +2°C	C _{dh}	1,00
T _j = +7°C	C _{dh}	1,00
T _j = +12°C	C _{dh}	0,93
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}	0,020	kW
Thermostat-off mode	P _{TO}	0,016	kW
Standby mode	P _{SB}	0,020	kW
Crankcase heater mode	P _{CK}	0,020	kW

Other items

Capacity control		variable	
Sound power level, indoors/outdoors	L _{WA}	43 / 46	dB
Annual energy consumption	Q _{HE}	2.188	kWh

For heat combination heater:

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

Supplementary heater

Rated heat output (*)	P _{sup}	0,00	kW
Type of energy input	electricity		

For air-to-water heat pumps: Rated air flow rate, outdoors	--	2.663	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

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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_{dh} is not determined by measurement then the default degradation coefficient is C_{dh} = 0,9.

Technical parameters

- weishaupt -

Manufacturer:	Max Weishaupt GmbH
Model:	WBB 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:	warmer

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

Item	Symbol	Value	Unit
Seasonal space heating energy efficiency	η _s	160	%
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		
T _j = +2°C	COP _d	2,85	
T _j = +7°C	COP _d	3,74	
T _j = +12°C	COP _d	4,73	
T _j = bivalent temperature	COP _d	2,85	
T _j = operation limit temperature	COP _d	2,85	
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	2	°C
Heating water operating limit temperature	WTOL	65	°C

Item	Symbol	Value
Degradation co-efficient (**)	C _{dh}	
T _j = -7°C	C _{dh}	
T _j = +2°C	C _{dh}	1,00
T _j = +7°C	C _{dh}	1,00
T _j = +12°C	C _{dh}	0,95
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}	0,020	kW
Thermostat-off mode	P _{TO}	0,016	kW
Standby mode	P _{SB}	0,020	kW
Crankcase heater mode	P _{CK}	0,020	kW

Other items

Capacity control		variable	
Sound power level, indoors/outdoors	L _{WA}	43 / 46	dB
Annual energy consumption	Q _{HE}	2.788	kWh

For heat combination heater:

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

Supplementary heater

Rated heat output (*)	P _{sup}	0,00	kW
Type of energy input	electricity		

For air-to-water heat pumps: Rated air flow rate, outdoors	--	2.663	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.