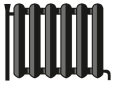
–weishaupt–

WGB 8-A-MD-I



	55 °C	35 °C
A+++		A+++
A++	A++	
A+		
A		
B		
C		
D		

39 dB

0 dB

	55 °C	35 °C
	8	8
	8	9
	8	8
	kW	kW

2019

811/2013

Produktdaten

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

Produkt: **Wärmeerzeuger** **WGB 8-A-MD-I**

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 12102:2017, EN 14511-1:2017, EN 14511-2:2018, EN 14511-3:2018, EN 14511-4:2018, EN 14825:2018

	Temperaturanwendung		
	35°C	55°C	
Wärmeerzeuger	WGB 8-A-MD-I		
Klasse für die jahreszeitbedingte Raumheizungs-Energieeffizienz (A+++ - D)	A+++	A++	
Wärmenennleistung bei durchschnittlichen Klimaverhältnissen	9	8	kW
Jahreszeitbedingte Raumheizungs-Energieeffizienz bei durchschnittlichen Klimaverhältnissen	200	142	%
Jährlicher Energieverbrauch als Endenergie für Raumheizung bei durchschnittlichen Klimaverhältnissen	3466	4410	kWh
Schallleistungspegel im Gebäude, LWA	39		dB(A)
Besondere Vorkehrungen bei der Installation	siehe manual		
Wärmenennleistung bei kälteren Klimaverhältnissen	8	8	kW
Wärmenennleistung bei wärmeren Klimaverhältnissen	8	8	kW
Jahreszeitbedingte Raumheizungs-Energieeffizienz bei kälteren Klimaverhältnissen	199	146	%
Jahreszeitbedingte Raumheizungs-Energieeffizienz bei wärmeren Klimaverhältnissen	188	140	%
Jährlicher Energieverbrauch für Raumheizung als Endenergie bei kälteren Klimaverhältnissen	3817	5122	kWh
Jährlicher Energieverbrauch für Raumheizung als Endenergie bei wärmeren Klimaverhältnissen	2180	2884	kWh
Schallleistungspegel im Freien, LWA	0		dB(A)

Technical parameters

- weishaupt -

Manufacturer:	Max Weishaupt GmbH
Model:	WGB 8-A-MD-I
	Brine - 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
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	Pdh	7,3	kW
T_j = +2°C	Pdh	4,5	kW
T_j = +7°C	Pdh	3,2	kW
T_j = +12°C	Pdh	2,5	kW
T_j = bivalent temperature	Pdh	8,4	kW
T_j = operation limit temperature	Pdh	8,4	kW
For air-to-water heat pumps: T_j = -15°C (if TOL <-20°C)	Pdh		kW
Bivalent temperature	T_{biv}	-10	°C

Item	Symbol	Value	Unit
Seasonal space heating energy efficiency	ηs	200	**%**
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	4,41	
T_j = +2°C	COPd	5,30	
T_j = +7°C	COPd	5,80	
T_j = +12°C	COPd	5,62	
T_j = bivalent temperature	COPd	4,20	
T_j = operation limit temperature	COPd	4,20	
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	65	°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	0,98
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}	0,015	kW
Thermostat-off mode	P_{TO}	0,009	kW
Standby mode	P_{SB}	0,015	kW
Crankcase heater mode	P_{CK}	0,000	kW

Supplementary heater

Rated heat output (*)	Psup	0,42	kW
Type of energy input		electricity	

Other items

Capacity control		variable	
Sound power level, indoors/outdoors	L_{WA}	39 / 0	dB
Annual energy consumption	Q_{HE}	3.466	kWh

For air-to-water heat pumps: Rated air flow rate, outdoors	--		m^3/h
For water-/brine-to water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	--	1,08	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:	WGB 8-A-MD-I
	Brine - 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
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	Pdh	7,1	kW
T_j = +2°C	Pdh	4,4	kW
T_j = +7°C	Pdh	3,0	kW
T_j = +12°C	Pdh	2,6	kW
T_j = bivalent temperature	Pdh	7,6	kW
T_j = operation limit temperature	Pdh	7,6	kW
For air-to-water heat pumps: T_j = -15°C (if TOL <-20°C)	Pdh		kW
Bivalent temperature	T_{biv}	-10	°C

Item	Symbol	Value	Unit
Seasonal space heating energy efficiency	ηs	142	**%**
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	2,94	
T_j = +2°C	COPd	3,82	
T_j = +7°C	COPd	4,34	
T_j = +12°C	COPd	4,30	
T_j = bivalent temperature	COPd	2,70	
T_j = operation limit temperature	COPd	2,70	
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	65	°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	0,97
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}	0,015	kW
Thermostat-off mode	P_{TO}	0,019	kW
Standby mode	P_{SB}	0,015	kW
Crankcase heater mode	P_{CK}	0,000	kW

Supplementary heater

Rated heat output (*)	Psup	0,18	kW
Type of energy input		electricity	

Other items

Capacity control		variable	
Sound power level, indoors/outdoors	L_{WA}	39 / 0	dB
Annual energy consumption	Q_{HE}	4.410	kWh

For air-to-water heat pumps: Rated air flow rate, outdoors	--		m^3/h
For water-/brine-to water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	--	0,88	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:	WGB 8-A-MD-I
	Brine - 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
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	Pdh	4,5	kW
T_j = +2°C	Pdh	3,1	kW
T_j = +7°C	Pdh	2,6	kW
T_j = +12°C	Pdh	2,5	kW
T_j = bivalent temperature	Pdh	8,1	kW
T_j = operation limit temperature	Pdh	8,1	kW
For air-to-water heat pumps: T_j = -15°C (if TOL <-20°C)	Pdh		kW
Bivalent temperature	T_{biv}	-22	°C

Item	Symbol	Value	Unit
Seasonal space heating energy efficiency	ηs	199	**%**
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	5,17	
T_j = +2°C	COPd	5,40	
T_j = +7°C	COPd	5,38	
T_j = +12°C	COPd	5,78	
T_j = bivalent temperature	COPd	4,20	
T_j = operation limit temperature	COPd	4,20	
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	-22	°C
Heating water operating limit temperature	WTOL	65	°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	0,95
T_j = +12°C	Cdh	0,95
For air-to-water heat pumps: T_j = -15°C (if TOL <-20°C)	Cdh	1,00

Power consumption in modes other than active mode

Off mode	P_{OFF}	0,015	kW
Thermostat-off mode	P_{TO}	0,009	kW
Standby mode	P_{SB}	0,015	kW
Crankcase heater mode	P_{CK}	0,000	kW

Supplementary heater

Rated heat output (*)	Psup	0,00	kW
Type of energy input		electricity	

Other items

Capacity control		variable	
Sound power level, indoors/outdoors	L_{WA}	39 / 0	dB
Annual energy consumption	Q_{HE}	3.817	kWh

For air-to-water heat pumps: Rated air flow rate, outdoors	--		m^3/h
For water-/brine-to water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	--	1,08	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:	WGB 8-A-MD-I
	Brine - 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
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	Pdh	5,0	kW
T_j = +2°C	Pdh	3,1	kW
T_j = +7°C	Pdh	2,8	kW
T_j = +12°C	Pdh	2,7	kW
T_j = bivalent temperature	Pdh	7,5	kW
T_j = operation limit temperature	Pdh	7,5	kW
For air-to-water heat pumps: T_j = -15°C (if TOL <-20°C)	Pdh		kW
Bivalent temperature	T_{biv}	-22	°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 T_j			
T_j = -7°C	COPd	3,58	
T_j = +2°C	COPd	4,12	
T_j = +7°C	COPd	4,70	
T_j = +12°C	COPd	5,37	
T_j = bivalent temperature	COPd	2,70	
T_j = operation limit temperature	COPd	2,70	
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	-22	°C
Heating water operating limit temperature	WTOL	65	°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	0,95
T_j = +12°C	Cdh	0,95
For air-to-water heat pumps: T_j = -15°C (if TOL <-20°C)	Cdh	1,00

Power consumption in modes other than active mode

Off mode	P_{OFF}	0,015	kW
Thermostat-off mode	P_{TO}	0,019	kW
Standby mode	P_{SB}	0,015	kW
Crankcase heater mode	P_{CK}	0,000	kW

Supplementary heater

Rated heat output (*)	Psup	0,00	kW
Type of energy input		electricity	

Other items

Capacity control		variable	
Sound power level, indoors/outdoors	L_{WA}	39 / 0	dB
Annual energy consumption	Q_{HE}	5.122	kWh

For air-to-water heat pumps: Rated air flow rate, outdoors	--		m^3/h
For water-/brine-to water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	--	0,88	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:	WGB 8-A-MD-I
	Brine - 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
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	Pdh		kW
T_j = +2°C	Pdh	8,2	kW
T_j = +7°C	Pdh	5,2	kW
T_j = +12°C	Pdh	3,1	kW
T_j = bivalent temperature	Pdh	8,2	kW
T_j = operation limit temperature	Pdh	8,2	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	188	**%**
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		
T_j = +2°C	COPd	4,19	
T_j = +7°C	COPd	4,95	
T_j = +12°C	COPd	5,40	
T_j = bivalent temperature	COPd	4,19	
T_j = operation limit temperature	COPd	4,19	
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	2	°C
Heating water operating limit temperature	WTOL	65	°C

Item	Symbol	Value
Degradation co-efficient (**)	Cdh	
T_j = -7°C	Cdh	
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}	0,015	kW
Thermostat-off mode	P_{TO}	0,009	kW
Standby mode	P_{SB}	0,015	kW
Crankcase heater mode	P_{CK}	0,000	kW

Supplementary heater

Rated heat output (*)	Psup	0,00	kW
Type of energy input		electricity	

Other items

Capacity control		variable	
Sound power level, indoors/outdoors	L_{WA}	39 / 0	dB
Annual energy consumption	Q_{HE}	2.180	kWh

For air-to-water heat pumps: Rated air flow rate, outdoors	--		m^3/h
For water-/brine-to water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	--	1,08	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:	WGB 8-A-MD-I
	Brine - 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
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	Pdh		kW
T_j = +2°C	Pdh	7,5	kW
T_j = +7°C	Pdh	4,7	kW
T_j = +12°C	Pdh	2,8	kW
T_j = bivalent temperature	Pdh	7,5	kW
T_j = operation limit temperature	Pdh	7,5	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	140	**%**
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		
T_j = +2°C	COPd	2,70	
T_j = +7°C	COPd	3,42	
T_j = +12°C	COPd	4,41	
T_j = bivalent temperature	COPd	2,70	
T_j = operation limit temperature	COPd	2,70	
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	2	°C
Heating water operating limit temperature	WTOL	65	°C

Item	Symbol	Value
Degradation co-efficient (**)	Cdh	
T_j = -7°C	Cdh	
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}	0,015	kW
Thermostat-off mode	P_{TO}	0,019	kW
Standby mode	P_{SB}	0,015	kW
Crankcase heater mode	P_{CK}	0,000	kW

Supplementary heater

Rated heat output (*)	Psup	0,00	kW
Type of energy input		electricity	

Other items

Capacity control		variable	
Sound power level, indoors/outdoors	L_{WA}	39 / 0	dB
Annual energy consumption	Q_{HE}	2.884	kWh

For air-to-water heat pumps: Rated air flow rate, outdoors	--		m^3/h
For water-/brine-to water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	--	0,88	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.