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Bösch **GEOBLOCK20S-RU50**

	55 °C	35 °C
	A+++	A+++

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

- dB

41 dB

20	20	
20	**20**	
20	20	
kW	kW	

2019 811/2013

Produktdatenblatt

Delegierte Verordnung (EU) Nr. 811/2013

Name oder Warenzeichen des Lieferanten	**Bösch**
Modellkennung	**GEOBLOCK20S-RU50**
Klasse für die jahreszeitbedingte Raumheizungs-Energieeffizienz (durchschnittliche Klimaverhältnisse – Niedertemperaturbereich)	**A+++**
Klasse für die jahreszeitbedingte Raumheizungs-Energieeffizienz (durchschnittliche Klimaverhältnisse – Mitteltemperaturbereich)	**A+++**
Wärmenennleistung (durchschnittliche Klimaverhältnisse – Niedertemperaturbereich)	**20 kW**
Wärmenennleistung (durchschnittliche Klimaverhältnisse – Mitteltemperaturbereich)	**20 kW**
Jahreszeitbedingte Raumheizungs-Energieeffizienz (durchschnittliche Klimaverhältnisse – Niedertemperaturbereich)	**213 %**
Jahreszeitbedingte Raumheizungs-Energieeffizienz (durchschnittliche Klimaverhältnisse – Mitteltemperaturbereich)	**158 %**
Jährlicher Energieverbrauch – Endenergie (durchschnittliche Klimaverhältnisse – Niedertemperaturbereich)	**7 540 kWh**
Jährlicher Energieverbrauch – Brennwert (durchschnittliche Klimaverhältnisse – Niedertemperaturbereich)	**- GJ**
Jährlicher Energieverbrauch – Endenergie (durchschnittliche Klimaverhältnisse – Mitteltemperaturbereich)	**9 965 kWh**
Jährlicher Energieverbrauch – Brennwert (durchschnittliche Klimaverhältnisse – Mitteltemperaturbereich)	**- GJ**
Schallleistungspegel (in Innenräumen)	**- dB**
Besondere Vorkehrungen	**-**
Weitere Angaben	
Wärmenennleistung (kältere Klimaverhältnisse – Niedertemperaturbereich)	**20 kW**
Wärmenennleistung (wärmere Klimaverhältnisse – Niedertemperaturbereich)	**20 kW**
Wärmenennleistung (kältere Klimaverhältnisse – Mitteltemperaturbereich)	**20 kW**
Wärmenennleistung (wärmere Klimaverhältnisse – Mitteltemperaturbereich)	**20 kW**
Jahreszeitbedingte Raumheizungs-Energieeffizienz (kältere Klimaverhältnisse – Niedertemperaturbereich)	**206 %**
Jahreszeitbedingte Raumheizungs-Energieeffizienz (wärmere Klimaverhältnisse – Niedertemperaturbereich)	**204 %**
Jahreszeitbedingte Raumheizungs-Energieeffizienz (kältere Klimaverhältnisse – Mitteltemperaturbereich)	**159 %**

Jahreszeitbedingte Raumheizungs-Energieeffizienz (wärmere Klimaverhältnisse – Mitteltemperaturbereich)	**155 %**
Jährlicher Energieverbrauch – Endenergie (kältere Klimaverhältnisse – Niedertemperaturbereich)	**9 231 kWh**
Jährlicher Energieverbrauch – Brennwert (kältere Klimaverhältnisse – Niedertemperaturbereich)	**- GJ**
Jährlicher Energieverbrauch – Endenergie (wärmere Klimaverhältnisse – Niedertemperaturbereich)	**5 032 kWh**
Jährlicher Energieverbrauch – Brennwert (wärmere Klimaverhältnisse – Niedertemperaturbereich)	**- GJ**
Jährlicher Energieverbrauch – Endenergie (kältere Klimaverhältnisse – Mitteltemperaturbereich)	**11 809 kWh**
Jährlicher Energieverbrauch – Brennwert (kältere Klimaverhältnisse – Mitteltemperaturbereich)	**- GJ**
Jährlicher Energieverbrauch – Endenergie (wärmere Klimaverhältnisse – Mitteltemperaturbereich)	**6 573 kWh**
Jährlicher Energieverbrauch – Brennwert (wärmere Klimaverhältnisse – Mitteltemperaturbereich)	**- GJ**
Schallleistungspegel (im Freien)	**41 dB**

Das Modell wurde auf dem Unionsmarkt in Verkehr gebracht , und zwar ab dem 01/01/2026.

EPREL-Eintragungsnummer 2522242 https://eprel.ec.europa.eu/qr/2522242

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Technical parameters

bösch

Manufacturer:	Max Weishaupt SE
Model:	GEOBLOCK20S-RU50
	Brine - to-water heat pump
Low-temperature heat pump:	no
Equipped with a supplementary heater:	no
Heat pump combination heater:	
Application:	low
Climate:	average

Item	Symbol	Value	Unit
Rated heat output (*)	Prated	20	kW
Declared capacity for heating for part load at indoor temperature 20°C and outdoor temperature T_j			
T_j = -7°C	Pdh	18,4	kW
T_j = +2°C	Pdh	10,7	kW
T_j = +7°C	Pdh	19,7	kW
T_j = +12°C	Pdh	12,5	kW
T_j = bivalent temperature	Pdh	6,0	kW
T_j = operation limit temperature	Pdh	19,7	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	213	**%**
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	4,65	
T_j = +2°C	COPd	5,57	
T_j = +7°C	COPd	6,05	
T_j = +12°C	COPd	6,17	
T_j = bivalent temperature	COPd	4,49	
T_j = operation limit temperature	COPd	4,49	
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	70	°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}	0,020	kW
Thermostat-off mode	P_{TO}	0,005	kW
Standby mode	P_{SB}	0,020	kW
Crankcase heater mode	P_{CK}	0,010	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}	0 / 0	dB
Annual energy consumption	Q_{HE}	7.540	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	--	1,00	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 SE, 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

bösch

Manufacturer:	Max Weishaupt SE
Model:	GEOBLOCK20S-RU50
	Brine - to-water heat pump
Low-temperature heat pump:	no
Equipped with a supplementary heater:	no
Heat pump combination heater:	
Application:	medium
Climate:	average

Item	Symbol	Value	Unit
Rated heat output (*)	Prated	20	kW
Declared capacity for heating for part load at indoor temperature 20°C and outdoor temperature T_j			
T_j = -7°C	Pdh	17,5	kW
T_j = +2°C	Pdh	10,6	kW
T_j = +7°C	Pdh	7,1	kW
T_j = +12°C	Pdh	4,1	kW
T_j = bivalent temperature	Pdh	20,5	kW
T_j = operation limit temperature	Pdh	20,5	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	158	**%**
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	3,24	
T_j = +2°C	COPd	4,09	
T_j = +7°C	COPd	4,84	
T_j = +12°C	COPd	5,40	
T_j = bivalent temperature	COPd	3,04	
T_j = operation limit temperature	COPd	3,04	
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	70	°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}	0,020	kW
Thermostat-off mode	P_{TO}	0,005	kW
Standby mode	P_{SB}	0,020	kW
Crankcase heater mode	P_{CK}	0,010	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}	0 / 0	dB
Annual energy consumption	Q_{HE}	9.965	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	--	0,90	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 SE, 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

bösch

Manufacturer:	Max Weishaupt SE
Model:	GEOBLOCK20S-RU50
	Brine - to-water heat pump
Low-temperature heat pump:	no
Equipped with a supplementary heater:	no
Heat pump combination heater:	
Application:	low
Climate:	colder

Item	Symbol	Value	Unit
Rated heat output (*)	Prated	20	kW
Declared capacity for heating for part load at indoor temperature 20°C and outdoor temperature T_j			
T_j = -7°C	Pdh	12,2	kW
T_j = +2°C	Pdh	7,4	kW
T_j = +7°C	Pdh	7,0	kW
T_j = +12°C	Pdh	4,0	kW
T_j = bivalent temperature	Pdh	19,7	kW
T_j = operation limit temperature	Pdh	19,7	kW
For air-to-water heat pumps: T_j = -15°C (if TOL <-20°C)	Pdh	19,7	kW
Bivalent temperature	T_{biv}	-22	°C

Item	Symbol	Value	Unit
Seasonal space heating energy efficiency	ηs	206	**%**
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	5,20	
T_j = +2°C	COPd	5,60	
T_j = +7°C	COPd	5,80	
T_j = +12°C	COPd	5,90	
T_j = bivalent temperature	COPd	4,39	
T_j = operation limit temperature	COPd	4,39	
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	70	°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	0,90
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}	0,020	kW
Thermostat-off mode	P_{TO}	0,005	kW
Standby mode	P_{SB}	0,020	kW
Crankcase heater mode	P_{CK}	0,010	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}	0 / 0	dB
Annual energy consumption	Q_{HE}	9.231	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	--	1,00	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 SE, 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

bösch

Manufacturer:	Max Weishaupt SE
Model:	GEOBLOCK20S-RU50
	Brine - to-water heat pump
Low-temperature heat pump:	no
Equipped with a supplementary heater:	no
Heat pump combination heater:	
Application:	medium
Climate:	colder

Item	Symbol	Value	Unit
Rated heat output (*)	Prated	20	kW
Declared capacity for heating for part load at indoor temperature 20°C and outdoor temperature T_j			
T_j = -7°C	Pdh	12,3	kW
T_j = +2°C	Pdh	7,2	kW
T_j = +7°C	Pdh	4,8	kW
T_j = +12°C	Pdh	4,1	kW
T_j = bivalent temperature	Pdh	20,0	kW
T_j = operation limit temperature	Pdh	20,0	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	159	**%**
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	3,70	
T_j = +2°C	COPd	4,60	
T_j = +7°C	COPd	5,20	
T_j = +12°C	COPd	5,40	
T_j = bivalent temperature	COPd	3,04	
T_j = operation limit temperature	COPd	3,04	
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	70	°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	0,90
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}	0,020	kW
Thermostat-off mode	P_{TO}	0,005	kW
Standby mode	P_{SB}	0,020	kW
Crankcase heater mode	P_{CK}	0,010	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}	0 / 0	dB
Annual energy consumption	Q_{HE}	11.809	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	--	0,90	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 SE, 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

bösch

Manufacturer:	Max Weishaupt SE
Model:	GEOBLOCK20S-RU50
	Brine - to-water heat pump
Low-temperature heat pump:	no
Equipped with a supplementary heater:	no
Heat pump combination heater:	
Application:	low
Climate:	warmer

Item	Symbol	Value	Unit
Rated heat output (*)	Prated	20	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	20,0	kW
T_j = +7°C	Pdh	4,9	kW
T_j = +12°C	Pdh	4,0	kW
T_j = bivalent temperature	Pdh	19,7	kW
T_j = operation limit temperature	Pdh	19,7	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	204	**%**
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	4,49	
T_j = +7°C	COPd	5,00	
T_j = +12°C	COPd	6,05	
T_j = bivalent temperature	COPd	4,49	
T_j = operation limit temperature	COPd	4,49	
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	70	°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	1,00
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}	0,020	kW
Thermostat-off mode	P_{TO}	0,005	kW
Standby mode	P_{SB}	0,020	kW
Crankcase heater mode	P_{CK}	0,010	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}	0 / 0	dB
Annual energy consumption	Q_{HE}	5.032	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	--	1,00	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 SE, 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

bösch

Manufacturer:	Max Weishaupt SE
Model:	GEOBLOCK20S-RU50
	Brine - to-water heat pump
Low-temperature heat pump:	no
Equipped with a supplementary heater:	no
Heat pump combination heater:	
Application:	medium
Climate:	warmer

Item	Symbol	Value	Unit
Rated heat output (*)	Prated	20	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	20,0	kW
T_j = +7°C	Pdh	13,0	kW
T_j = +12°C	Pdh	6,0	kW
T_j = bivalent temperature	Pdh	20,0	kW
T_j = operation limit temperature	Pdh	20,0	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	155	**%**
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	3,04	
T_j = +7°C	COPd	3,70	
T_j = +12°C	COPd	4,80	
T_j = bivalent temperature	COPd	3,04	
T_j = operation limit temperature	COPd	3,04	
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	70	°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	0,90
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}	0,020	kW
Thermostat-off mode	P_{TO}	0,005	kW
Standby mode	P_{SB}	0,020	kW
Crankcase heater mode	P_{CK}	0,010	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}	0 / 0	dB
Annual energy consumption	Q_{HE}	6.573	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	--	0,90	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 SE, 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.