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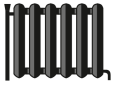
WWP L 12 IDK



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

50 dB

53 dB

55 °C	35 °C
4	4
6	7
8	9
kW	kW

2019

811/2013

Produktdaten

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

Produkt: **Wärmeerzeuger** **WWP L 12 IDK**

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 12102:2008, EN 14511-1:2013, EN 14511-2:2013, EN 14511-3:2013, EN 14511-4:2013, EN 14825:2013

	Temperaturanwendung		
	35°C	55°C	
Wärmeerzeuger	WWP L 12 IDK		
Klasse für die jahreszeitbedingte Raumheizungs-Energieeffizienz (A+++ - D)	A++	A++	
Wärmenennleistung bei durchschnittlichen Klimaverhältnissen	7	6	kW
Jahreszeitbedingte Raumheizungs-Energieeffizienz bei durchschnittlichen Klimaverhältnissen	176	127	%
Jährlicher Energieverbrauch als Endenergie für Raumheizung bei durchschnittlichen Klimaverhältnissen	3060	3879	kWh
Schallleistungspegel im Gebäude, LWA	50		dB(A)
Besondere Vorkehrungen bei der Installation	siehe manual		
Wärmenennleistung bei kälteren Klimaverhältnissen	4	4	kW
Wärmenennleistung bei wärmeren Klimaverhältnissen	9	8	kW
Jahreszeitbedingte Raumheizungs-Energieeffizienz bei kälteren Klimaverhältnissen	155	113	%
Jahreszeitbedingte Raumheizungs-Energieeffizienz bei wärmeren Klimaverhältnissen	215	150	%
Jährlicher Energieverbrauch für Raumheizung als Endenergie bei kälteren Klimaverhältnissen	2729	3168	kWh
Jährlicher Energieverbrauch für Raumheizung als Endenergie bei wärmeren Klimaverhältnissen	2314	2956	kWh
Schallleistungspegel im Freien, LWA	53		dB(A)

Technical parameters

- weishaupt -

Manufacturer:	Max Weishaupt GmbH
Model:	WWP L 12 IDK
	Air-to-water heat pump
Low-temperature heat pump:	Nein
Equipped with a supplementary heater:	Ja
Heat pump combination heater:	
Application:	low
Climate:	average

Item	Symbol	Value	Unit
Rated heat output (*)	Prated	7	kW
Declared capacity for heating for part load at indoor temperature 20°C and outdoor temperature T_j			
T_j = -7°C	Pdh	7,2	kW
T_j = +2°C	Pdh	9,6	kW
T_j = +7°C	Pdh	11,8	kW
T_j = +12°C	Pdh	12,8	kW
T_j = bivalent temperature	Pdh	6,6	kW
T_j = operation limit temperature	Pdh	6,6	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	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	3,28	
T_j = +2°C	COPd	4,49	
T_j = +7°C	COPd	5,62	
T_j = +12°C	COPd	6,72	
T_j = bivalent temperature	COPd	3,03	
T_j = operation limit temperature	COPd	3,03	
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	60	°C

Item	Symbol	Value
Degradation co-efficient (**)	Cdh	
T_j = -7°C	Cdh	0,99
T_j = +2°C	Cdh	0,99
T_j = +7°C	Cdh	0,99
T_j = +12°C	Cdh	0,99
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}	0,020	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		fixed	
Sound power level, indoors/outdoors	L_{WA}	50 / 53	dB
Annual energy consumption	Q_{HE}	3.060	kWh

For air-to-water heat pumps: Rated air flow rate, outdoors	--	4.400	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:	WWP L 12 IDK
	Air-to-water heat pump
Low-temperature heat pump:	Nein
Equipped with a supplementary heater:	Ja
Heat pump combination heater:	
Application:	medium
Climate:	average

Item	Symbol	Value	Unit
Rated heat output (*)	Prated	6	kW
Declared capacity for heating for part load at indoor temperature 20°C and outdoor temperature T_j			
T_j = -7°C	Pdh	6,7	kW
T_j = +2°C	Pdh	8,9	kW
T_j = +7°C	Pdh	11,3	kW
T_j = +12°C	Pdh	12,2	kW
T_j = bivalent temperature	Pdh	6,1	kW
T_j = operation limit temperature	Pdh	6,1	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	127	**%**
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	2,31	
T_j = +2°C	COPd	3,22	
T_j = +7°C	COPd	4,17	
T_j = +12°C	COPd	5,05	
T_j = bivalent temperature	COPd	2,08	
T_j = operation limit temperature	COPd	2,08	
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	60	°C

Item	Symbol	Value
Degradation co-efficient (**)	Cdh	
T_j = -7°C	Cdh	0,99
T_j = +2°C	Cdh	0,99
T_j = +7°C	Cdh	0,99
T_j = +12°C	Cdh	0,99
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}	0,020	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		fixed	
Sound power level, indoors/outdoors	L_{WA}	50 / 53	dB
Annual energy consumption	Q_{HE}	3.879	kWh

For air-to-water heat pumps: Rated air flow rate, outdoors	--	4.400	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.

Technical parameters

- weishaupt -

Manufacturer:	Max Weishaupt GmbH
Model:	WWP L 12 IDK
	Air-to-water heat pump
Low-temperature heat pump:	Nein
Equipped with a supplementary heater:	Ja
Heat pump combination heater:	
Application:	low
Climate:	colder

Item	Symbol	Value	Unit
Rated heat output (*)	Prated	4	kW
Declared capacity for heating for part load at indoor temperature 20°C and outdoor temperature T_j			
T_j = -7°C	Pdh	7,2	kW
T_j = +2°C	Pdh	9,7	kW
T_j = +7°C	Pdh	11,9	kW
T_j = +12°C	Pdh	12,7	kW
T_j = bivalent temperature	Pdh	4,4	kW
T_j = operation limit temperature	Pdh	4,4	kW
For air-to-water heat pumps: T_j = -15°C (if TOL <-20°C)	Pdh	5,7	kW
Bivalent temperature	T_{biv}	-22	°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	3,47	
T_j = +2°C	COPd	4,75	
T_j = +7°C	COPd	5,85	
T_j = +12°C	COPd	6,67	
T_j = bivalent temperature	COPd	2,08	
T_j = operation limit temperature	COPd	2,08	
For air-to-water heat pumps: T_j = -15°C (if TOL <-20°C)	COPd	2,75	
For air-to-water heat pumps: Operation limit temperature	TOL	-22	°C
Heating water operating limit temperature	WTOL	60	°C

Item	Symbol	Value
Degradation co-efficient (**)	Cdh	
T_j = -7°C	Cdh	0,99
T_j = +2°C	Cdh	0,99
T_j = +7°C	Cdh	0,99
T_j = +12°C	Cdh	0,99
For air-to-water heat pumps: T_j = -15°C (if TOL <-20°C)	Cdh	0,99

Power consumption in modes other than active mode

Off mode	P_{OFF}	0,015	kW
Thermostat-off mode	P_{TO}	0,020	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		fixed	
Sound power level, indoors/outdoors	L_{WA}	50 / 53	dB
Annual energy consumption	Q_{HE}	2.729	kWh

For air-to-water heat pumps: Rated air flow rate, outdoors	--	4.400	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.

Technical parameters

- weishaupt -

Manufacturer:	Max Weishaupt GmbH
Model:	WWP L 12 IDK
	Air-to-water heat pump
Low-temperature heat pump:	Nein
Equipped with a supplementary heater:	Ja
Heat pump combination heater:	
Application:	medium
Climate:	colder

Item	Symbol	Value	Unit
Rated heat output (*)	Prated	4	kW
Declared capacity for heating for part load at indoor temperature 20°C and outdoor temperature T_j			
T_j = -7°C	Pdh	6,9	kW
T_j = +2°C	Pdh	9,1	kW
T_j = +7°C	Pdh	11,4	kW
T_j = +12°C	Pdh	12,3	kW
T_j = bivalent temperature	Pdh	3,7	kW
T_j = operation limit temperature	Pdh	3,7	kW
For air-to-water heat pumps: T_j = -15°C (if TOL <-20°C)	Pdh	5,2	kW
Bivalent temperature	T_{biv}	-22	°C

Item	Symbol	Value	Unit
Seasonal space heating energy efficiency	ηs	113	**%**
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	2,55	
T_j = +2°C	COPd	3,48	
T_j = +7°C	COPd	4,48	
T_j = +12°C	COPd	5,27	
T_j = bivalent temperature	COPd	1,38	
T_j = operation limit temperature	COPd	1,38	
For air-to-water heat pumps: T_j = -15°C (if TOL <-20°C)	COPd	1,94	
For air-to-water heat pumps: Operation limit temperature	TOL	-22	°C
Heating water operating limit temperature	WTOL	60	°C

Item	Symbol	Value
Degradation co-efficient (**)	Cdh	
T_j = -7°C	Cdh	0,99
T_j = +2°C	Cdh	0,99
T_j = +7°C	Cdh	0,99
T_j = +12°C	Cdh	0,99
For air-to-water heat pumps: T_j = -15°C (if TOL <-20°C)	Cdh	0,99

Power consumption in modes other than active mode

Off mode	P_{OFF}	0,015	kW
Thermostat-off mode	P_{TO}	0,020	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		fixed	
Sound power level, indoors/outdoors	L_{WA}	50 / 53	dB
Annual energy consumption	Q_{HE}	3.168	kWh

For air-to-water heat pumps: Rated air flow rate, outdoors	--	4.400	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.

Technical parameters

- weishaupt -

Manufacturer:	Max Weishaupt GmbH
Model:	WWP L 12 IDK
	Air-to-water heat pump
Low-temperature heat pump:	Nein
Equipped with a supplementary heater:	Ja
Heat pump combination heater:	
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	Pdh		kW
T_j = +2°C	Pdh	9,4	kW
T_j = +7°C	Pdh	11,7	kW
T_j = +12°C	Pdh	12,7	kW
T_j = bivalent temperature	Pdh	9,4	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	215	**%**
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	4,21	
T_j = +7°C	COPd	5,27	
T_j = +12°C	COPd	6,45	
T_j = bivalent temperature	COPd	4,21	
T_j = operation limit temperature	COPd	4,21	
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	60	°C

Item	Symbol	Value
Degradation co-efficient (**)	Cdh	
T_j = -7°C	Cdh	
T_j = +2°C	Cdh	0,99
T_j = +7°C	Cdh	0,99
T_j = +12°C	Cdh	0,99
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}	0,020	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		fixed	
Sound power level, indoors/outdoors	L_{WA}	50 / 53	dB
Annual energy consumption	Q_{HE}	2.314	kWh

For air-to-water heat pumps: Rated air flow rate, outdoors	--	4.400	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:	WWP L 12 IDK
	Air-to-water heat pump
Low-temperature heat pump:	Nein
Equipped with a supplementary heater:	Ja
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	8,5	kW
T_j = +7°C	Pdh	10,9	kW
T_j = +12°C	Pdh	12,1	kW
T_j = bivalent temperature	Pdh	8,5	kW
T_j = operation limit temperature	Pdh	8,5	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	150	**%**
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	2,67	
T_j = +7°C	COPd	3,56	
T_j = +12°C	COPd	4,68	
T_j = bivalent temperature	COPd	2,67	
T_j = operation limit temperature	COPd	2,67	
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	60	°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	0,99
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}	0,020	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		fixed	
Sound power level, indoors/outdoors	L_{WA}	50 / 53	dB
Annual energy consumption	Q_{HE}	2.956	kWh

For air-to-water heat pumps: Rated air flow rate, outdoors	--	4.400	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.