

WPE-I 12.1 Plus HW 230

GROUND SOURCE HEAT PUMPS

PRODUCT-NO.: 207186

Combine natural energy with the power of innovation

Cosy warmth and hot water boost quality of life. Our highly efficient ground source heat pump offers you both. It not only heats in a particularly energy saving way, but also fulfils the highest standards when it comes to hot water convenience, thanks to the integral hot water cylinder. This not only saves you energy costs, but also plenty of space.

Natural, needs-based heat

Whether you're at home or out and about somewhere in the world, you can select your preferred temperature easily and precisely using the modern, full-colour touchscreen, or conveniently by app. All you need for your comfort. The entire system is even more eco-friendly thanks to the use of natural refrigerant R290 – a high efficiency package that is impressive in a wide range of applications.

The main features

Ground source heat pump installed indoors for heating and hot water

Excellent hot water convenience thanks to integral hot water cylinder with high flow temperatures

Futureproof thanks to the use of the natural refrigerant R290

Convenient operation via app, even when out and about

High efficiency and low energy costs thanks to modern inverter technology

Particularly quiet operation

Perfectly scalable for new build, modernisation plus family houses and apartment buildings

Pleasant summer climate thanks to active and passive cooling (additional component required)



WPE-I 07.1 Plus HW 230

Product-No.: 207185



WPE-I 07.1 Plus HW 400

Product-No.: 207180



WPE-I 12.1 Plus HW 400

Product-No.: 207181



Type	WPE-I 07.1 Plus HW 230	WPE-I 07.1 Plus HW 400	WPE-I 12.1 Plus HW 230
Part no.	207185	207180	207186

Technical data

Nominal capacity	184 l	184 l	184 l
Surface area, heat exchanger	1.83 m ²	1.83 m ²	1.83 m ²
Energy efficiency class, heat pump W35 (A+++ → D)	A+++	A+++	A+++
Energy efficiency class, heat pump W55 (A+++ → D)	A+++	A+++	A+++
SCOP 35 °C (EN 14825)	5.21	5.21	5.40
Energy efficiency class, DHW heating with load profile XL (A+ → F)	A+	A+	A+
Heating output at B0/W35 (EN 14511)	3,36 kW	3,36 kW	6,2 kW
Heating output at B0/W35 (min./max.)	1,4/7,0 kW	1,4/7,0 kW	2,7/11,6 kW
COP at B0/W35 (EN 14511)	4.62	4.62	4.87
Sound power level (EN 12102)	37 dB(A)	37 dB(A)	40 dB(A)
Height	1863 mm	1863 mm	1863 mm
Width	600 mm	600 mm	600 mm
Depth	700 mm	700 mm	700 mm
Weight	156 kg	156 kg	172 kg
Rated voltage, compressor	230 V	230 V	400 V
Rated voltage, emergency/auxiliary heater	400 V	400 V	400 V



Type

**WPE-I 12.1
Plus HW 400**

Part no.

207181

Technical data

Nominal capacity	184 l
Surface area, heat exchanger	1.83 m ²
Energy efficiency class, heat pump W35 (A+++ → D)	A+++
Energy efficiency class, heat pump W55 (A+++ → D)	A+++
SCOP 35 °C (EN 14825)	5.40
Energy efficiency class, DHW heating with load profile XL (A+ → F)	A+
Heating output at B0/W35 (EN 14511)	6,2 kW
Heating output at B0/W35 (min./max.)	2,7/11,6 kW
COP at B0/W35 (EN 14511)	4.87
Sound power level (EN 12102)	40 dB(A)
Height	1863 mm
Width	600 mm
Depth	700 mm
Weight	172 kg
Rated voltage, compressor	400 V
Rated voltage, emergency/auxiliary heater	400 V

Contact information

You have questions? We appreciate to help you:

Call **+49 5531 - 7020**

Write an email to **info@stiebel-eltron.com**

Installation information

Please ask your local power supply utility or a registered electrician to install appliances that are not fully wired, i.e. ready to plug in. The electrician should also be able to assist you with obtaining the agreement of the respective power supply utility required for the appliance installation.

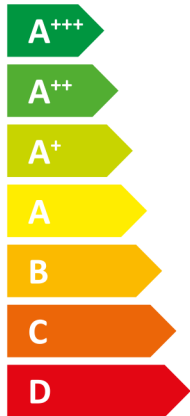
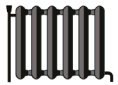


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STIEBEL ELTRON

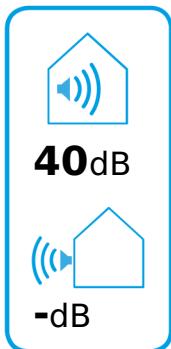
WPE-I 12.1 Plus HW
230



A+++



A+



■ 10 kW
■ **10 kW**
■ 10 kW

2019

811/2013

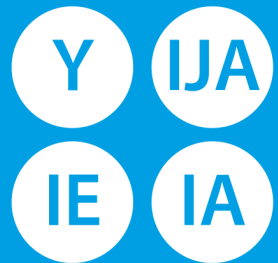
Product datasheet: Package of combination heater and temperature control to Regulation (EU) No 811/2013 (S.I. 2019 No. 539 / Programme 2)

		WPE-I 12.1 Plus HW 230
		207186
Manufacturer		STIEBEL ELTRON
Load profile		XL
Space heating energy efficiency class under average climate conditions, medium-temperature applications (A+++ -> D)		A+++
Energy efficiency class, space heating under average climate conditions, low-temperature applications (A+++ -> D)		A+++
Energy efficiency class, DHW heating under average climate conditions (A+++ -> D)		A+
Rated heating output under average climate conditions for medium-temperature applications (P rated)	kW	10
Rated heating output under average climate conditions for low-temperature applications (P rated)	kW	11
Annual energy consumption under average climate conditions for medium-temperature applications (QHE)	kWh/a	5,046
Annual energy consumption under average climate conditions for low-temperature applications (QHE)	kWh/a	4,337
Annual power consumption under average climate conditions (AEC)	kWh	1,326.000
Seasonal space heating energy efficiency under average climate conditions for medium-temperature applications (η_s)	%	160
Seasonal space heating energy efficiency under average climate conditions for low-temperature applications (η_s)	%	208
Energy efficiency, DHW heating (η_{wh}), under average climate conditions	%	123
Sound power level, indoor	dB(A)	40
Option for operation only at off-peak times		x
Special measures		Alle beim Zusammenbau, der Installation oder Wartung des Raumheizgerätes zu treffenden besonderen Vorkehrungen: Siehe Installation- und Montageanweisung
Rated heating output under colder climate conditions for medium-temperature applications (P rated)	kW	10
Rated heating output under colder climate conditions for low-temperature applications (P rated)	kW	11
Rated heating output under warmer climate conditions for medium-temperature applications (P rated)	kW	10
Rated heating output under warmer climate conditions for low-temperature applications (P rated)	kW	11
Annual energy consumption under colder climate conditions for medium-temperature applications (QHE)	kWh/a	5,896
Annual energy consumption under colder climate conditions for low-temperature applications (QHE)	kWh/a	5,007
Annual energy consumption under warmer climate conditions for medium-temperature applications (QHE)	kWh/a	3,269
Annual energy consumption under warmer climate conditions for low-temperature applications (QHE)	kWh/a	2,811
Annual power consumption under colder climate conditions (AEC)	kWh	1,326.000
Annual power consumption under warmer climate conditions (AEC)	kWh	1,326.000
Seasonal space heating energy efficiency under colder climate conditions for medium-temperature applications (η_s)	%	163
Seasonal space heating energy efficiency under colder climate conditions for low-temperature applications (η_s)	%	215
Seasonal space heating energy efficiency under warmer climate conditions for medium-temperature applications (η_s)	%	159
Seasonal space heating energy efficiency under warmer climate conditions for low-temperature applications (η_s)	%	208
Seasonal space heating energy efficiency under warmer climate conditions for low-temperature applications (η_s)	%	123
Energy efficiency, DHW heating (η_{wh}), warmer climates	%	123
Sound power level, outdoor		-



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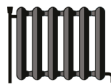
STIEBEL ELTRON



A⁺⁺⁺



A⁺



A⁺⁺⁺

A⁺⁺

A⁺

A

B

C

D

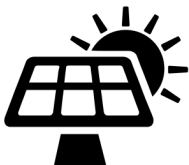
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A⁺

Product datasheet: Package of combination heater and temperature control to Regulation (EU) No 811/2013 (S.I. 2019 No. 539 / Programme 2)

		WPE-I 12.1 Plus HW 230
		207186
Manufacturer		STIEBEL ELTRON
Seasonal space heating energy efficiency under average climate conditions for medium-temperature applications (η_s)	%	160
Temperature control class		II
Contribution of temperature control to space heating energy efficiency	%	2
Space heating energy efficiency of package under average climate conditions	%	163
Space heating energy efficiency of package under colder climate conditions	%	166
Space heating energy efficiency of package under warmer climate conditions	%	162
Value of differential between space heating energy efficiency under average climate conditions and that under colder climate conditions	%	3
Value of differential between space heating energy efficiency under warmer climate conditions and that under average climate conditions	%	1
Space heating energy efficiency class under average climate conditions, medium-temperature applications (A+++ -> D)		A+++
Space heating energy efficiency class of package under average climate conditions (A+++ -> D)		A+++
Energy efficiency class, DHW heating under average climate conditions (A+++ -> D)		A+
Load profile		XL

Product datasheet: Package of combination heater and temperature control to Regulation (EU) No 811/2013 (S.I. 2019 No. 539 / Programme 2)

		WPE-I 12.1 Plus HW 230
		207186
Manufacturer		STIEBEL ELTRON
Heat source		Sole
Low temperature heat pump		-
With auxiliary heater		x
Combination heater with heat pump		x
Rated heating output under colder climate conditions for medium-temperature applications (P rated)	kW	10
Rated heating output under average climate conditions for medium-temperature applications (P rated)	kW	10
Rated heating output under warmer climate conditions for medium-temperature applications (P rated)	kW	10
Tj = -7 °C heating output, partial load range under colder climate conditions (Pdh)	kW	6.2
Tj = -7 °C heating output, partial load range under average climate conditions (Pdh)	kW	9.0
Tj = 2 °C heating output, partial load range under colder climate conditions (Pdh)	kW	3.8
Tj = 2 °C heating output, partial load range under average climate conditions (Pdh)	kW	5.5
Tj = 2 °C heating output, partial load range under warmer climate conditions (Pdh)	kW	10.2
Tj = 7 °C heating output, partial load range under colder climate conditions (Pdh)	kW	2.7
Tj = 7 °C heating output, partial load range under average climate conditions (Pdh)	kW	3.5
Tj = 7 °C heating output, partial load range under warmer climate conditions (Pdh)	kW	6.6
Tj = 12 °C heating output, partial load range under colder climate conditions (Pdh)	kW	2.7
Tj = 12 °C heating output, partial load range under average climate conditions (Pdh)	kW	2.7
Tj = 12 °C heating output, partial load range under warmer climate conditions (Pdh)	kW	2.9
Tj = dual mode temperature under colder climate conditions (Pdh)	kW	10.2
Tj = dual mode temperature under average climate conditions (Pdh)	kW	10.2
Tj = dual mode temperature under warmer climate conditions (Pdh)	kW	10.2
Tj = operating temperature limit under colder climate conditions (Pdh)	kW	10.2
Tj = operating temperature limit under average climate conditions (Pdh)	kW	10.2
Tj = operating temperature limit under warmer climate conditions (Pdh)	kW	10.2
For air source heat pumps: Tj = -15 °C (if TOL< -20 °C) (Pdh)		-
Dual mode temperature under colder climate conditions (Tbiv)	Grad C	-22
Dual mode temperature under average climate conditions (Tbiv)	Grad C	-10
Dual mode temperature under warmer climate conditions (Tbiv)	Grad C	2
Seasonal space heating energy efficiency under colder climate conditions for medium-temperature applications (ηs)	%	163
Seasonal space heating energy efficiency under average climate conditions for medium-temperature applications (ηs)	%	160
Seasonal space heating energy efficiency under warmer climate conditions for medium-temperature applications (ηs)	%	159
Tj = -7 °C COP, partial load range under colder climate conditions (COPd)		4.00
Tj = -7 °C COP, partial load range under average climate conditions (COPd)		3.36
Tj = 2 °C COP, partial load range under colder climate conditions (COPd)		4.70
Tj = 2 °C COP, partial load range under average climate conditions (COPd)		4.30
Tj = 2 °C COP, partial load range under warmer climate conditions (COPd)		2.93
Tj = 7 °C COP, partial load range under colder climate conditions (COPd)		4.85
Tj = 7 °C COP, partial load range under average climate conditions (COPd)		4.71

Tj = 7 °C COP, partial load range under warmer climate conditions (COPd)		3.82
Tj = 12 °C COP, partial load range under colder climate conditions (COPd)		4.86
Tj = 12 °C COP, partial load range under average climate conditions (COPd)		4.77
Tj = 12 °C COP, partial load range under warmer climate conditions (COPd)		4.99
Tj = dual mode temperature under colder climate conditions (COPd)		2.93
Tj = dual mode temperature under average climate conditions (COPd)		2.93
Tj = dual mode temperature under warmer climate conditions (COPd)		2.93
Tj = operating temperature limit under colder climate conditions (COPd)		2.93
Tj = operating temperature limit under average climate conditions (COPd)		2.93
Tj = operating temperature limit under warmer climate conditions (COPd)		2.93
For air source heat pumps: Tj = -15 °C (if TOL < -20 °C) (COPd)		-
Operating temperature limit under colder climate conditions (TOL)	Grad C	-22
Operating temperature limit under average climate conditions (TOL)	Grad C	-10
Operating temperature limit under warmer climate conditions (TOL)	Grad C	2
Operating temperature limit of heating water under colder climate conditions (WTOL)	Grad C	70
Operating temperature limit of heating water under average climate conditions (WTOL)	Grad C	70
Operating temperature limit of heating water under warmer climate conditions (WTOL)	Grad C	70
Power consumption, off-mode (Poff)	Watt	17
Power consumption, thermostat off-mode (PTO)	Watt	19
Power consumption, standby state (PSB)	Watt	17
Power consumption, operating state, with crankcase heating (PCK)	Watt	0
Rated heating output of auxiliary heater under colder climate conditions (PSUP)	kW	0.0
Rated heating output of auxiliary heater under average climate conditions (PSUP)	kW	0.0
Rated heating output of auxiliary heater under warmer climate conditions (PSUP)	kW	0.0
Type of energy supply, auxiliary heater		elektrisch
Output control		veränderlich
Sound power level, outdoor		-
Sound power level, indoor	dB(A)	40
Annual energy consumption under colder climate conditions for medium-temperature applications (QHE)	kWh/a	5,896
Annual energy consumption under average climate conditions for medium-temperature applications (QHE)	kWh/a	5,046
Annual energy consumption under warmer climate conditions for medium-temperature applications (QHE)	kWh/a	3,269
Flow rate on heat source side	m3/h	2
Load profile		XL
Daily power consumption under colder climate conditions (QELEC)	kWh	6.224
Daily power consumption under average climate conditions (QELEC)	kWh	6.224
Daily power consumption under warmer climate conditions (QELEC)	kWh	6.224
Annual power consumption under colder climate conditions (AEC)	kWh	1,326.000
Annual power consumption under average climate conditions (AEC)	kWh	1,326.000
Annual power consumption under warmer climate conditions (AEC)	kWh	1,326.000
Seasonal space heating energy efficiency under warmer climate conditions for low-temperature applications (η_s)	%	123
Energy efficiency, DHW heating (η_{wh}), under average climate conditions	%	123
Energy efficiency, DHW heating (η_{wh}), warmer climates	%	123
Special measures	Alle beim Zusammenbau, der Installation oder Wartung des Raumheizgerätes zu treffenden besonderen Vorkehrungen: Siehe Installation- und Montageanweisung	

WPE-I 12.1 Plus HW 230

GROUND SOURCE HEAT PUMPS

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Recommended accessories

Article	Part no.	Type	Description
	207742	<u>AHP-PH</u>	Pipe set for integrating external heat meters with a gauge of 130 mm.
	207744	<u>AHP-TC</u>	Outer cover that can be attached to the top of the ground source heat pump using magnetic fixings.
	207743	<u>AWG 80</u>	Extract air routing accessory set for natural refrigerants
	161696	<u>MEG 30</u>	Heat transfer medium
	233307	<u>WPSF</u>	WPSF multifunction brine filling unit

Contact information

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