

WPE-I 12.1 Plus H 230

GROUND SOURCE HEAT PUMPS

PRODUCT-NO.: 207184

Use your ground to increase efficiency

Nowhere is the old adage "less is more" a more apt sentiment than when it comes to energy consumption. One good reason why this highly efficient ground source heat pump is so popular for heating. At the same time, it also fulfils the highest standards when it comes to hot water convenience – and all without the need for a buffer cylinder. This not only saves you energy costs, but also plenty of space.

Heat when you need it

These compact heat pumps are installed indoors and can be adjusted to precisely meet your heating needs. Up to six devices can be connected to each other. An energy pool that you can use to supply a single house with heat just as efficiently as a building with several apartments. 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

Futureproof thanks to the use of the natural refrigerant R290

High efficiency and low energy costs thanks to modern inverter technology

Blends perfectly into your interior with its clear, timeless design

Convenient operation via app, even when out and about

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 H 230

Product-No.: 207183



WPE-I 07.1 Plus H 400

Product-No.: 207177



WPE-I 12.1 Plus H 400

Product-No.: 207178



Type	WPE-I 07.1 Plus H 230	WPE-I 07.1 Plus H 400	WPE-I 12.1 Plus H 230
Part no.	207183	207177	207184

Technical data

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
Heating output at B0/W35 (EN 14511)	3,36 kW	3,36 kW	6,20 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)	38 dB(A)	38 dB(A)	40 dB(A)
Height	1450 mm	1450 mm	1450 mm
Width	600 mm	600 mm	600 mm
Depth	700 mm	700 mm	700 mm
Weight	111 kg	111 kg	132 kg
Rated voltage, compressor	230 V	230 V	400 V
Rated voltage, emergency/auxiliary heater	400 V	400 V	400 V
Refrigerant	R290	R290	R290
Connection, heating side	28 mm	28 mm	28 mm
Connection, heat source side	28 mm	28 mm	28 mm



Type

**WPE-I 12.1
Plus H 400**

Part no.

207178

Technical data

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
Heating output at B0/W35 (EN 14511)	6,20 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	1450 mm
Width	600 mm
Depth	700 mm
Weight	132 kg
Rated voltage, compressor	400 V
Rated voltage, emergency/auxiliary heater	400 V
Refrigerant	R290
Connection, heating side	28 mm
Connection, heat source side	28 mm

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.

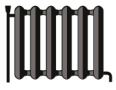


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WPE-I 12.1 Plus H 230

STIEBEL ELTRON



55 °C

35 °C



A+++

A+++



40 dB



0 dB

■ 10

■ 10

■ 10

kW

■ 11

■ 11

■ 11

kW



2019

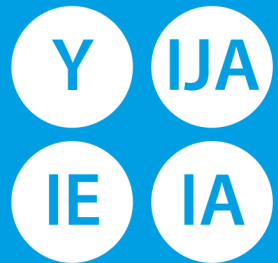
811/2013

Product datasheet: Required details about space heater with heat pump to Regulation (EU) No 813/2013 & 811/2013 / (S.I. 2019 No. 539 / Programme 2)

		WPE-I 12.1 Plus H 230
		207184
Manufacturer		STIEBEL ELTRON
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+++
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
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
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
Sound power level, indoor	dB(A)	40
Option for operation only at off-peak times		-
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
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
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
Sound power level, outdoor	dB(A)	0

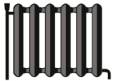


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WPE-I 12.1 Plus H 230

STIEBEL ELTRON



A⁺⁺⁺

A⁺⁺⁺

A⁺⁺⁺

A⁺⁺

A⁺

A

B

C

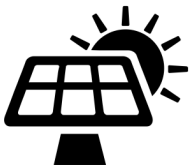
D

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Product datasheet: Required details about space heater with heat pump to Regulation (EU) No 813/2013 & 811/2013 / (S.I. 2019 No. 539 / Programme 2)

		WPE-I 12.1 Plus H 230
		207184
Manufacturer		STIEBEL ELTRON
Seasonal space heating energy efficiency under average climate conditions for low-temperature applications (η_s)	%	208
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
Energy efficiency class, space heating under average climate conditions, low-temperature applications (A+++ -> D)		A+++
Space heating energy efficiency class of package under average climate conditions (A+++ -> D)		A+++

Product datasheet: Required details about space heater with heat pump to Regulation (EU) No 813/2013 & 811/2013 / (S.I. 2019 No. 539 / Programme 2)

		WPE-I 12.1 Plus H 230
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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	dB(A)	0
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
Special measures	Alle beim Zusammenbau, der Installation oder Wartung des Raumheizgerätes zu treffenden besonderen Vorkehrungen: Siehe Installation- und Montageanweisung	

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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

DHW cylinder

Article	Part no.	Type	Description
	221360	<u>SBB 301 WP</u>	DHW cylinder
	229981	<u>SBS 801 W</u>	Instantaneous water cylinder

Buffer cylinder

Article	Part no.	Type	Description
	205295	<u>SBP 200 Plus cool</u>	Buffer cylinder suitable for cooling operation
	205296	<u>SBP 400 Plus cool</u>	Buffer cylinder suitable for cooling operation
	185459	<u>SBP 700 E</u>	Buffer cylinder

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