


	<b>Heat Pump KEYMARK</b>	 <b>TÜVRheinland®</b> <b>DIN CERTCO</b> Genau. Richtig.
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Data has to be declared for all Models inside a sub-type.

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|--|----------|
| <b>1. AIR/WATER; BRINE/WATER; WATER/WATER HEAT PUMPS (IF APPLICABLE)</b> | <b>2</b> |
| <b>2. HEAT PUMPS FOR DOMESTIC HOT WATER (DHW) (IF APPLICABLE)</b>        | <b>8</b> |



<b>Certificate data</b>	
Certificate holder name	Stiebel Eltron GmbH & Co. KG
Address	Dr.-Stiebel-Straße 33, 37603 Holzminden Germany
Type of heat pump	Air/Water
Reg. No.	011-1W0060
Certification Body	DIN CERTCO Gesellschaft für Konformitätsbewertung mbH
Name of testing laboratory	VDE Prüf- und Zertifizierungsinstitut

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## 1. Air/Water; Brine/Water; Water/Water heat pumps (if applicable)

	WPL 07 ACS classic		
<b>General data</b>			
Refrigerant	R410		
Mass of refrigerant [kg]	1,10 kg		
GWP according to EU Nr. 517/2014 [CO <sub>2eq</sub> in t]	2,296		
Frequency [Hz]	50		
Voltage [V]	230		
<b>Test points EN 14511-2 Air/Water heat pump (if applicable)</b>			
A7/W35			
heat output [kW]	2,27		
El input [kW]	0,5		
COP	4,54		
A7/W55 (if applicable)			
heat output [kW]	1,92		
El input [kW]	0,72		
COP	2,68		
<b>Test points EN 14511-2 Brine/Water heat pump (if applicable)</b>			
B0/W35			
heat output [kW]			
El input [kW]			
COP			
B0/W55			
heat output [kW]			
El input [kW]			
COP			
<b>Test points EN 14511-2 Water/Water heat pump (if applicable)</b>			
W10/W35			
heat output [kW]			
El input [kW]			
COP			
W10/W55			
heat output [kW]			
El input [kW]			
COP			



In case of gas driven heat pump, EN14511 shall be replaced by EN 12309:2015-03

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Test points EN 14511-4			
operating Range A.../W... lower limit-lower limit (min)			
Please state if the requirement is passed or failed	passed		
operating Range A.../W... upper limit- upper limit (min)			
Please state if the requirement is passed or failed	passed		
Shutting off the heat transfer medium flow			
Please state if the requirement is passed or failed	passed		
Complete power supply failure			
Please state if the requirement is passed or failed	passed		
Defrost test only for AirT Water heat pumps (if applicable)			
Please state if the requirement is passed or failed	passed		

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Average Climate Low temperature application (if applicable)			
Declared values EN 14825			
$T_{biv}$ [°C]	$T_{biv}$ at low temperature conditions		
heat output [kW]	3,2		
El input [kW]	1,11		
COP	2,88		
Sound power level according EN 12102			
Sound power level indoor if relevant) [dB(A)]	(See 55 °C application)		
Sound power level outdoor [dB(A)]	(See 55 °C application)		
Declared data regarding ErP regulation			
$\eta_s$	166		
$P_{rated}$ [kW]	4		
SCOP	4,15		
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature $T_j$			
Pdh: $T_j = -7$ °C [kW]	3,2		
COPd: $T_j = -7$ °C	2,88		
Pdh: $T_j = +2$ °C [kW]	1,95		
COPd: $T_j = +2$ °C	4,11		
Pdh: $T_j = +7$ °C [kW]	1,63		
COPd: $T_j = +7$ °C	6,06		
Pdh: $T_j = +12$ °C [kW]	1,8		
COPd: $T_j = +12$ °C	8,14		
Pdh: $T_j =$ bivalent temperature [kW]	3,2		
COPd: $T_j =$ bivalent temperature [ ]	2,88		
Pdh: $T_j = -15$ °C (if $TOL < -20$ °C) [kW]	0,0		
COPd: $T_j = -15$ °C (if $TOL < -20$ °C)	0,0		
$T_{biv}$ [°C]	-7		
TOL [°C]	-10		
WTOL [°C]	60		
Annual energy consumption $Q_{HE}$ [kWh]	1769		
Power input „compressor off“ [kW]	0		
$P_{OFF}$ [W]	17		
$P_{TO}$ [W]	30		
$P_{SB}$ [W]	17		
$P_{CK}$ [W]	5		
$P_{SUP}$ [kW]	0,47		
Type of energy input (e.g. electricity)	electricity		

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Average Climate Medium temperature application (if applicable)			
Declared values EN 14825			
$T_{biv}$ [°C]			
heat output [kW]	2,37		
El input [kW]	1,09		
COP	2,17		
Sound power level according EN 12102			
Sound power level indoor if relevant) [dB(A)]	-		
Sound power level outdoor [dB(A)]	52		
Declared data regarding ErP regulation			
$\eta_s$	113		
$P_{rated}$ [kW]	3		
SCOP	2,85		
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature $T_j$			
Pdh: $T_j = -7$ °C [kW]	3,05		
COPd: $T_j = -7$ °C	2,07		
Pdh: $T_j = +2$ °C [kW]	1,58		
COPd: $T_j = +2$ °C	2,93		
Pdh: $T_j = +7$ °C [kW]	1,25		
COPd: $T_j = +7$ °C	4,13		
Pdh: $T_j = +12$ °C [kW]	1,54		
COPd: $T_j = +12$ °C	5,97		
Pdh: $T_j =$ bivalent temperature [kW]	2,37		
COPd: $T_j =$ bivalent temperature [ ]	2,17		
Pdh: $T_j = -15$ °C (if $TOL < -20$ °C) [kW]	0,0		
COPd: $T_j = -15$ °C (if $TOL < -20$ °C)	0,0		
$T_{biv}$ [°C]	-5		
TOL [°C]	-7		
WTOL [°C]	60		
Annual energy consumption $Q_{HE}$ [kWh]	2089		
Power input „compressor off“ [kW] (if applicable)	0		
$P_{OFF}$ [W]	17		
$P_{TO}$ [W]	30		
$P_{SB}$ [W]	17		
$P_{CK}$ [W]	5		
$P_{SUP}$ [kW]	2,93		
Type of energy input (e.g. electricity)	electricity		

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Warmer Climate (if applicable)			
Declared values EN 14825 – 35°C application			
$T_{biv}$ [°C]			
heat output [kW]	3,04		
El input [kW]	0,86		
COP	3,53		
Sound power level according EN 12102			
Sound power level indoor if relevant) [dB(A)]	(See 55 °C application)		
Sound power level outdoor [dB(A)]	(See 55 °C application)		
Declared data regarding ErP regulation			
$\eta_s$	204		
$P_{rated}$ [kW]	3		
SCOP	4,99		
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature $T_j$			
$P_{dhTj} = -7\text{ °C}$ [kW]	0,0		
$COP_{d Tj} = -7\text{ °C}$	0,0		
$P_{dhTj} = +2\text{ °C}$ [kW]	3,04		
$COP_{d Tj} = +2\text{ °C}$	3,53		
$P_{dh Tj} = +7\text{ °C}$ [kW]	1,95		
$COP_{d Tj} = +7\text{ °C}$	5,27		
$P_{dh Tj} = +12\text{ °C}$ [kW]	1,69		
$COP_{d Tj} = +12\text{ °C}$	7,72		
$P_{dh Tj} = \text{bivalent temperature}$ [kW]	3,04		
$COP_{d Tj} = \text{bivalent temperature}$	2,53		
$P_{dh Tj} = -15\text{ °C}$ (if $TOL < -20\text{ °C}$ ) [kW]	0,0		
$COP_{d Tj} = -15\text{ °C}$ (if $TOL < -20\text{ °C}$ )	0,0		
$T_{biv}$ [°C]	2		
TOL [°C]	2		
WTOL [°C]	60		
Annual energy consumption $Q_{HE}$ [kWh]	783		
Power input „compressor off“ [kW] (if applicable)	0		
$P_{OFF}$ [W]	17		
$P_{TO}$ [W]	30		
$P_{SB}$ [W]	17		
$P_{CK}$ [W]	5		
$P_{SUP}$ [kW]	0		
Type of energy input (e.g. electricity)	electricity		

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Colder Climate (if applicable)			
Declared values EN 14825 – 35°C application			
$T_{biv}/^{\circ}C$			
heat output [kW]	2,76		
El input[kW]	1,08		
COP	2,56		
Sound power level according EN12102			
Sound power level indoor if relevant) [dB(A)]	(See 55 °C application)		
Sound power level outdoor [dB(A)]	(See 55 °C application)		
Declared date regarding ErP regulation			
$\eta_s$	150		
$P_{rated}$ [kW]	3		
SCOP	3,72		
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature $T_j$			
Pdh: $T_j = - 7^{\circ}C$ [kW]	2,05		
COPd: $T_j = - 7^{\circ}C$	3,2		
Pdh: $T_j = +2^{\circ}C$ [kW]	1,25		
COPd: $T_j = + 2^{\circ}C$	4,55		
Pdh: $T_j = +7^{\circ}C$ [kW]	1,42		
COPd: $T_j = + 7^{\circ}C$	6,34		
Pdh: $T_j = +12^{\circ}C$ [kW]	1,76		
COPd: $T_j = + 12^{\circ}C$	8,0		
Pdh: $T_j =$ bivalent temperature [kW]	2,76		
COPd: $T_j =$ bivalent temperature	2,56		
Pdh: $T_j = - 15^{\circ}C$ (if $TOL < - 20^{\circ}C$ ) [kW]	2,76		
COPd: $T_j = - 15^{\circ}C$ (if $TOL < - 20^{\circ}C$ )	2,56		
$T_{biv}$ [°C]	-15		
TOL [°C]	-20		
WTOL [°C]	60		
Annual energy consumption $Q_{HE}$ [kWh]	2186		
Power input „compressor off“ [kW] (if applicable)	0		
$P_{OFF}$ [W]	17		
$P_{TO}$ [W]	30		
$P_{SB}$ [W]	17		
$P_{CK}$ [W]	5		
$P_{SUP}$ [kW]	3,38		
Type of energy input (e.g. electricity)	electricity		

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## 2. Heat pumps for Domestic Hot Water (DHW) (if applicable)

	HSBC 200, HSBC 200 S	HSBB 200 classic, HSBB 200 S classic	
<b>General data</b>			
Refrigerant	R410	R410	
Mass of refrigerant [kg]	1,10 kg	1,10 kg	
GWP	2,296	2,296	
Frequency [Hz]	50	50	
Voltage [V]	230	230	
Off-peak product (yes/no)	no	no	
<b>Technical data – average climate</b>			
Declared load profil	XL	XL	
Efficiency $\eta_{dhw}$ in %	104	104	
Heating up time h:min	2:48	2:52	
Standby power input [W] Pes	47,4	42,11	
Reference hot water temperature °C	52,7	52,9	
Mixed water at 40°C	226	245	
Sound power level indoor if relevant) [dB(A)]	(See 55 °C application)	(See 55 °C application)	
Sound power level outdoor [dB(A)]	(See 55 °C application)	(See 55 °C application)	
<b>Technical data – colder climate</b>			
Declared load profil			
Efficiency $\eta_{dhw}$ in %			
Heating up time h:min			
Standby power input W			
Reference hot water temperature °C			
Mixed water at 40°C			
Sound power level indoor if relevant) [dB(A)]			
Sound power level outdoor [dB(A)]			
<b>Technical data – warmer climate</b>			
Declared load profil			
Efficiency $\eta_{dhw}$ in %			
Heating up time h:min			
Standby power input W			
Reference hot water temperature °C			
Mixed water at 40°C			
Sound power level indoor if relevant) [dB(A)]			
Sound power level outdoor [dB(A)]			