


	<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.**

**1. AIR/WATER; BRINE/WATER; WATER/WATER HEAT PUMPS (IF APPLICABLE) 2**



<b>Certificate data</b>	
Certificate holder name	Stiebel Eltron GmbH & Co. KG
Address	Dr.-Stiebel-Straße 33, 37603 Holzminden Germany
Type of heat pump	Brine/Water
Reg. No.	011-1W0029
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)

	WPF 35		
<b>General data</b>			
Refrigerant	R410 A		
Mass of refrigerant [kg]	10		
GWP according to EU Nr. 517/2014 [CO <sub>2eq</sub> in t]	20,88		
Frequency [Hz]	50		
Voltage [V]	400		
<b>Test points EN 14511-2 Air/Water heat pump (if applicable)</b>			
A7/W35			
heat output [kW]			
El input [kW]			
COP			
A7/W55 (if applicable)			
heat output [kW]			
El input [kW]			
COP			
<b>Test points EN 14511-2 Brine/Water heat pump (if applicable)</b>			
B0/W35			
heat output [kW]	37,7		
El input [kW]	7,98		
COP	4,72		
B0/W55			
heat output [kW]	34,49		
El input [kW]	11,47		
COP	3,01		
<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	n.a.		

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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]	38		
El input [kW]	8,0		
COP	4,75		
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			
$\eta_s$	200		
$P_{rated}$ [kW]	38		
SCOP	5,19		
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature $T_j$			
Pdh: $T_j = -7$ °C [kW]	38,1		
COPd: $T_j = -7$ °C	4,84		
Pdh: $T_j = +2$ °C [kW]	38,6		
COPd: $T_j = +2$ °C	5,2		
Pdh: $T_j = +7$ °C [kW]	39		
COPd: $T_j = +7$ °C	5,56		
Pdh: $T_j = +12$ °C [kW]	39,3		
COPd: $T_j = +12$ °C	5,96		
Pdh: $T_j =$ bivalent temperature [kW]	38,0		
COPd: $T_j =$ bivalent temperature	4,75		
Pdh: $T_j = -15$ °C (if $TOL < -20$ °C) [kW]	38		
COPd: $T_j = -15$ °C (if $TOL < -20$ °C)	4,78		
$T_{biv}$ [°C]	-10		
TOL [°C]	-20		
WTOL [°C]	60		
Annual energy consumption $Q_{HE}$ [kWh]	15136		
Power input „compressor off“ [kW]	0		
$P_{OFF}$ [W]	0		
$P_{TO}$ [W]	7		
$P_{SB}$ [W]	7		
$P_{CK}$ [W]	74		
$P_{SUP}$ [kW]	0		
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]	34,1		
El input [kW]	12,09		
COP	2,82		
Sound power level according EN 12102			
Sound power level indoor (if relevant) [dB(A)]	56		
Sound power level outdoor [dB(A)]	56		
Declared data regarding ErP regulation			
$\eta_s$	133		
$P_{rated}$ [kW]	34		
SCOP	3,52		
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature $T_j$			
Pdh: $T_j = -7$ °C [kW]	34,5		
COPd: $T_j = -7$ °C	2,95		
Pdh: $T_j = +2$ °C [kW]	35,8		
COPd: $T_j = +2$ °C	3,50		
Pdh: $T_j = +7$ °C [kW]	36,7		
COPd: $T_j = +7$ °C	2,92		
Pdh: $T_j = +12$ °C [kW]	37,5		
COPd: $T_j = +12$ °C	4,42		
Pdh: $T_j =$ bivalent temperature [kW]	34,1		
COPd: $T_j =$ bivalent temperature	2,82		
Pdh: $T_j = -15$ °C (if $TOL < -20$ °C) [kW]	34,1		
COPd: $T_j = -15$ °C (if $TOL < -20$ °C)	2,82		
$T_{biv}$ [°C]	-10		
TOL [°C]	-10		
WTOL [°C]	60		
Annual energy consumption $Q_{HE}$ [kWh]	20029		
Power input „compressor off“ [kW] (if applicable)	0		
$P_{OFF}$ [W]	0		
$P_{TO}$ [W]	7		
$P_{SB}$ [W]	7		
$P_{CK}$ [W]	74		
$P_{SUP}$ [kW]	0		
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]	39,0		
El input [kW]	8,16		
COP	4,78		
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			
$\eta_s$	199		
$P_{rated}$ [kW]	38		
SCOP	5,17		
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature $T_j$			
$P_{dh} T_j = - 7 \text{ °C}$ [kW]	38,0		
$COP_d T_j = - 7 \text{ °C}$	4,78		
$P_{dh} T_j = + 2 \text{ °C}$ [kW]	38,0		
$COP_d T_j = + 2 \text{ °C}$	4,78		
$P_{dh} T_j = + 7 \text{ °C}$ [kW]	38,5		
$COP_d T_j = + 7 \text{ °C}$	5,12		
$P_{dh} T_j = + 12 \text{ °C}$ [kW]	39,1		
$COP_d T_j = + 12 \text{ °C}$	5,69		
$P_{dh} T_j = \text{bivalent temperature}$ [kW]	38,0		
$COP_d T_j = \text{bivalent temperature}$	4,78		
$P_{dh} T_j = - 15 \text{ °C}$ (if $TOL < - 20 \text{ °C}$ ) [kW]	38,0		
$COP_d T_j = - 15 \text{ °C}$ (if $TOL < - 20 \text{ °C}$ )	4,78		
$T_{biv}$ [°C]	2		
TOL [°C]	0		
WTOL [°C]	60		
Annual energy consumption $Q_{HE}$ [kWh]	9834		
Power input „compressor off“ [kW] (if applicable)	0		
$P_{OFF}$ [W]	0		
$P_{TO}$ [W]	7		
$P_{SB}$ [W]	7		
$P_{CK}$ [W]	74		
$P_{SUP}$ [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]	38,6		
El input[kW]	7,34		
COP	5,26		
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 date regarding ErP regulation			
$\eta_s$	208		
$P_{rated}$ [kW]	47		
SCOP	5,41		
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature $T_j$			
Pdh: $T_j = - 7^{\circ}C$ [kW]	38,8		
COPd: $T_j = - 7^{\circ}C$	5,38		
Pdh: $T_j = +2^{\circ}C$ [kW]	39,1		
COPd: $T_j = + 2^{\circ}C$	5,67		
Pdh: $T_j = +7^{\circ}C$ [kW]	39,3		
COPd: $T_j = + 7^{\circ}C$	5,90		
Pdh: $T_j = +12^{\circ}C$ [kW]	39,3		
COPd: $T_j = + 12^{\circ}C$	5,94		
Pdh: $T_j =$ bivalent temperature [kW]	38,6		
COPd: $T_j =$ bivalent temperature	5,26		
Pdh: $T_j = - 15^{\circ}C$ (if $TOL < - 20^{\circ}C$ ) [kW]	38,6		
COPd: $T_j = - 15^{\circ}C$ (if $TOL < - 20^{\circ}C$ )	5,26		
$T_{biv}$ [°C]	-15		
TOL [°C]	-22		
WTOL [°C]	60		
Annual energy consumption $Q_{HE}$ [kWh]	21594		
Power input „compressor off“ [kW] (if applicable)	0		
$P_{OFF}$ [W]	0		
$P_{TO}$ [W]	7		
$P_{SB}$ [W]	7		
$P_{CK}$ [W]	74		
$P_{SUP}$ [kW]	9,32		
Type of energy input (e.g. electricity)	electricity		