



	Heat Pump KEYMARK	 TÜVRheinland®  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



Certificate data	
Certificate holder name	Stiebel Eltron GmbH & Co. KG
Address	Dr.-Stiebel-Straße 33, 37603 Holzminden Germany
Type of heat pump	Brine/Water
Reg. No.	011-1W0025
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 I3 S	WPC I3 S	WPC I3 S GB
General data			
Refrigerant	R410A	R410A	R410A
Mass of refrigerant [kg]	2,25	2,25	2,25
GWP according to EU Nr. 517/2014 [CO _{2eq} in t]	4,698	4,698	4,698
Frequency [Hz]	50	50	50
Voltage [V]	230	230	230
Test points EN 14511-2 Air/Water heat pump (if applicable)			
A7/W35			
heat output [kW]			
El input [kW]			
COP			
A7/W55 (if applicable)			
heat output [kW]			
El input [kW]			
COP			
Test points EN 14511-2 Brine/Water heat pump (if applicable)			
B0/W35			
heat output [kW]	13,01	13,01	13,01
El input [kW]	2,74	2,74	2,74
COP	4,75	4,75	4,75
B0/W55			
heat output [kW]	11,8	11,8	11,8
El input [kW]	3,94	3,94	3,94
COP	2,94	2,94	2,94
Test points EN 14511-2 Water/Water heat pump (if applicable)			
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	passed	passed
operating Range A.../W... upper limit- upper limit (min)			
Please state if the requirement is passed or failed	passed	passed	passed
Shutting off the heat transfer medium flow			
Please state if the requirement is passed or failed	passed	passed	passed
Complete power supply failure			
Please state if the requirement is passed or failed	passed	passed	passed
Defrost test only for AirT Water heat pumps (if applicable)			
Please state if the requirement is passed or failed	n.a.	n.a.	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]	13,0	13,0	13,0
El input [kW]	2,74	2,74	2,74
COP	4,75	4,75	4,75
Sound power level according EN 12102			
Sound power level indoor if relevant) [dB(A)]	(see 55°C application)	(see 55°C application)	(see 55°C application)
Sound power level outdoor [dB(A)]	-	-	-
Declared data regarding ErP regulation			
η_s	199	199	199
P_{rated} [kW]	13	13	13
SCOP	5,17	5,17	5,17
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T_j			
Pdh: $T_j = -7$ °C [kW]	13,0	13,0	13,0
COPd: $T_j = -7$ °C	4,80	4,80	4,80
Pdh: $T_j = +2$ °C [kW]	13,2	13,2	13,2
COPd: $T_j = +2$ °C	5,11	5,11	5,11
Pdh: $T_j = +7$ °C [kW]	13,3	13,3	13,3
COPd: $T_j = +7$ °C	5,41	5,41	5,41
Pdh: $T_j = +12$ °C [kW]	13,5	13,5	13,5
COPd: $T_j = +12$ °C	5,75	5,75	5,75
Pdh: $T_j =$ bivalent temperature [kW]	13,0	13,0	13,0
COPd: $T_j =$ bivalent temperature	4,75	4,75	4,75
Pdh: $T_j = -15$ °C (if $TOL < -20$ °C) [kW]	13,0	13,0	13,0
COPd: $T_j = -15$ °C (if $TOL < -20$ °C)	4,75	4,75	4,75
T_{biv} [°C]	-10	-10	-10
TOL [°C]	-10	-10	-10
WTOL [°C]	60	60	60
Annual energy consumption Q_{HE} [kWh]	5195	5195	5195
Power input „compressor off“ [kW]	0	0	0
P_{OFF} [W]	0	0	0
P_{TO} [W]	85	85	85
P_{SB} [W]	10	10	10
P_{CK} [W]	0	0	0
P_{SUP} [kW]	0	0	0
Type of energy input (e.g. electricity)	electricity	electricity	electricity

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Average Climate Medium temperature application (if applicable)			
Declared values EN 14825			
T_{biv} [°C]			
heat output [kW]	11,6	11,6	11,6
El input [kW]	3,94	3,94	3,94
COP	2,94	2,94	2,94
Sound power level according EN 12102			
Sound power level indoor if relevant) [dB(A)]	50	50	50
Sound power level outdoor [dB(A)]	-	-	-
Declared data regarding ErP regulation			
η_s	138	138	138
P_{rated} [kW]	12	12	12
SCOP	3,64	3,64	3,64
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T_j			
Pdh: $T_j = -7$ °C [kW]	11,7	11,7	11,7
COPd: $T_j = -7$ °C	3,07	3,07	3,07
Pdh: $T_j = +2$ °C [kW]	12,2	12,2	12,2
COPd: $T_j = +2$ °C	3,58	3,58	3,58
Pdh: $T_j = +7$ °C [kW]	12,5	12,5	12,5
COPd: $T_j = +7$ °C	3,97	3,97	3,97
Pdh: $T_j = +12$ °C [kW]	12,8	12,8	12,8
COPd: $T_j = +12$ °C	4,43	4,43	4,43
Pdh: $T_j =$ bivalent temperature [kW]	11,6	11,6	11,6
COPd: $T_j =$ bivalent temperature	2,94	2,94	2,94
Pdh: $T_j = -15$ °C (if $TOL < -20$ °C) [kW]	11,6	11,6	11,6
COPd: $T_j = -15$ °C (if $TOL < -20$ °C)	2,94	2,94	2,94
T_{biv} [°C]	-10	-10	-10
TOL [°C]	-10	-10	-10
WTOL [°C]	60	60	60
Annual energy consumption Q_{HE} [kWh]	6571	6571	6571
Power input „compressor off“ [kW] (if applicable)	0	0	0
P_{OFF} [W]	0	0	0
P_{TO} [W]	85	85	85
P_{SB} [W]	10	10	10
P_{CK} [W]	0	0	0
P_{SUP} [kW]	0	0	0
Type of energy input (e.g. electricity)	electricity	electricity	electricity

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Warmer Climate (if applicable)			
Declared values EN 14825 – 35°C application			
T_{biv} [°C]			
heat output [kW]	13,0	13,0	13,0
El input [kW]	2,74	2,74	2,74
COP	4,75	4,75	4,75
Sound power level according EN 12102			
Sound power level indoor if relevant) [dB(A)]	(see 55°C application)	(see 55°C application)	(see 55°C application)
Sound power level outdoor [dB(A)]	-	-	-
Declared data regarding ErP regulation			
η_s	199	199	199
P_{rated} [kW]	13	13	13
SCOP	3,94	3,94	3,94
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T_j			
$P_{dhT_j = -7\text{ °C}}$ [kW]	13,0	13,0	13,0
$COP_{d T_j = -7\text{ °C}}$	4,75	4,75	4,75
$P_{dhT_j = +2\text{ °C}}$ [kW]	13,0	13,0	13,0
$COP_{d T_j = +2\text{ °C}}$	4,75	4,75	4,75
$P_{dh T_j = +7\text{ °C}}$ [kW]	13,2	13,2	13,2
$COP_{d T_j = +7\text{ °C}}$	5,04	5,04	5,04
$P_{dh T_j = +12\text{ °C}}$ [kW]	13,4	13,4	13,4
$COP_{d T_j = +12\text{ °C}}$	5,53	5,53	5,53
$P_{dh T_j = \text{bivalent temperature}}$ [kW]	13,0	13,0	13,0
$COP_{d T_j = \text{bivalent temperature}}$	4,75	4,75	4,75
$P_{dh T_j = -15\text{ °C}}$ (if $TOL < -20\text{ °C}$) [kW]	13,0	13,0	13,0
$COP_{d T_j = -15\text{ °C}}$ (if $TOL < -20\text{ °C}$)	4,75	4,75	4,75
T_{biv} [°C]	2	2	2
TOL [°C]	2	2	2
WTOL [°C]	60	60	60
Annual energy consumption Q_{HE} [kWh]	3366	3366	3366
Power input „compressor off“ [kW] (if applicable)	0	0	0
P_{OFF} [W]	0	0	0
P_{TO} [W]	85	85	85
P_{SB} [W]	10	10	10
P_{CK} [W]	0	0	0
P_{SUP} [kW]	0	0	0
Type of energy input (e.g. electricity)	electricity	electricity	electricity

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Colder Climate (if applicable)			
Declared values EN 14825 – 35°C application			
$T_{biv}/^{\circ}\text{C}$			
heat output [kW]	13,2	13,2	13,2
El input[kW]	2,55	2,55	2,55
COP	5,17	5,17	5,17
Sound power level according EN12102			
Sound power level indoor if relevant) [dB(A)]	(see 55°C application)	(see 55°C application)	(see 55°C application)
Sound power level outdoor [dB(A)]	-	-	-
Declared date regarding ErP regulation			
η_s	204	204	204
P_{rated} [kW]	16	16	16
SCOP	4,39	4,39	4,39
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T_j			
Pdh: $T_j = - 7^{\circ}\text{C}$ [kW]	13,3	13,3	13,3
COPd: $T_j = - 7^{\circ}\text{C}$	5,27	5,27	5,27
Pdh: $T_j = +2^{\circ}\text{C}$ [kW]	13,4	13,4	13,4
COPd: $T_j = + 2^{\circ}\text{C}$	5,50	5,50	5,50
Pdh: $T_j = +7^{\circ}\text{C}$ [kW]	13,5	13,5	13,5
COPd: $T_j = + 7^{\circ}\text{C}$	5,70	5,70	5,70
Pdh: $T_j = +12^{\circ}\text{C}$ [kW]	13,5	13,5	13,5
COPd: $T_j = + 12^{\circ}\text{C}$	5,73	5,73	5,73
Pdh: $T_j = \text{bivalent temperature}$ [kW]	13,2	13,2	13,2
COPd: $T_j = \text{bivalent temperature}$	5,17	5,17	5,17
Pdh: $T_j = - 15^{\circ}\text{C}$ (if $TOL < - 20^{\circ}\text{C}$) [kW]	13,2	13,2	13,2
COPd: $T_j = - 15^{\circ}\text{C}$ (if $TOL < - 20^{\circ}\text{C}$)	5,17	5,17	5,17
T_{biv} [°C]	-15	-15	-15
TOL [°C]	-22	-22	-22
WTOL [°C]	60	60	60
Annual energy consumption Q_{HE} [kWh]	7530	7530	7530
Power input „compressor off“ [kW] (if applicable)	0	0	0
P_{OFF} [W]	0	0	0
P_{TO} [W]	85	85	85
P_{SB} [W]	10	10	10
P_{CK} [W]	0	0	0
P_{SUP} [kW]	3,2	3,2	3,2
Type of energy input (e.g. electricity)	electricity	electricity	electricity