



	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.	011-1W0010
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 I0	WPF I0 cool	WPC I0	WPC I0 cool
General data				
Refrigerant	R410 A	R410 A	R410 A	R410 A
Mass of refrigerant [kg]	2,03	2,03	2,03	2,03
GWP according to EU Nr. 517/2014 [CO _{2eq} in t]	4,238	4,238	4,238	4,238
Frequency [Hz]	50	50	50	50
Voltage [V]	400	400	400	400
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]	10,31	10,31	10,31	10,31
El input [kW]	2,05	2,05	2,05	2,05
COP	5,02	5,02	5,02	5,02
B0/W55				
heat output [kW]	9,28	9,28	9,28	9,28
El input [kW]	3,18	3,18	3,18	3,18
COP	2,91	2,91	2,91	2,91
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	passed
operating Range A.../W... upper limit- upper limit (min)				
Please state if the requirement is passed or failed	passed	passed	passed	passed
Shutting off the heat transfer medium flow				
Please state if the requirement is passed or failed	passed	passed	passed	passed
Complete power supply failure				
Please state if the requirement is passed or failed	passed	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	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]	10,3	10,3	10,3	10,3
El input [kW]	2,05	2,05	2,05	2,05
COP	5,03	5,03	5,03	5,03
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)	(see 55 °C application)
Sound power level outdoor [dB(A)]	-	-	-	-
Declared data regarding ErP regulation				
η_s	216	216	216	216
P_{rated} [kW]	10	10	10	10
SCOP	5,61	5,61	5,61	5,61
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T_j				
Pdh: $T_j = -7$ °C [kW]	9,2	9,2	9,2	9,2
COPd: $T_j = -7$ °C	2,97	2,97	2,97	2,97
Pdh: $T_j = +2$ °C [kW]	9,6	9,6	9,6	9,6
COPd: $T_j = +2$ °C	3,56	3,56	3,56	3,56
Pdh: $T_j = +7$ °C [kW]	9,9	9,9	9,9	9,9
COPd: $T_j = +7$ °C	4,03	4,03	4,03	4,03
Pdh: $T_j = +12$ °C [kW]	10,1	10,1	10,1	10,1
COPd: $T_j = +12$ °C	4,6	4,6	4,6	4,6
Pdh: $T_j =$ bivalent temperature [kW]	10,3	10,3	10,3	10,3
COPd: $T_j =$ bivalent temperature	5,03	5,03	5,03	5,03
Pdh: $T_j = -15$ °C (if $TOL < -20$ °C) [kW]	9,1	9,1	9,1	9,1
COPd: $T_j = -15$ °C (if $TOL < -20$ °C)	2,83	2,83	2,83	2,83
T_{biv} [°C]	-10	-10	-10	-10
TOL [°C]	-20	-20	-20	-20
WTOL [°C]	65	65	65	65
Annual energy consumption Q_{HE} [kWh]	3799	3799	3799	3799
Power input „compressor off“ [kW]	0	0	0	0
P_{OFF} [W]	0	0	0	0
P_{TO} [W]	84	84	84	84
P_{SB} [W]	9	9	9	9
P_{CK} [W]	0	0	0	0
P_{SUP} [kW]	0	0	0	0
Type of energy input (e.g. electricity)	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]	9,1	9,1	9,1	9,1
El input [kW]	3,22	3,22	3,22	3,22
COP	2,83	2,83	2,83	2,83
Sound power level according EN 12102				
Sound power level indoor if relevant) [dB(A)]	48	48	48	48
Sound power level outdoor [dB(A)]	-	-	-	-
Declared data regarding ErP regulation				
η_s	137	137	137	137
P_{rated} [kW]	9	9	9	9
SCOP	3,63	3,63	3,63	3,63
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T_j				
Pdh: $T_j = -7$ °C [kW]	9,2	9,2	9,2	9,2
COPd: $T_j = -7$ °C	2,97	2,97	2,97	2,97
Pdh: $T_j = +2$ °C [kW]	9,6	9,6	9,6	9,6
COPd: $T_j = +2$ °C	3,56	3,56	3,56	3,56
Pdh: $T_j = +7$ °C [kW]	9,9	9,9	9,9	9,9
COPd: $T_j = +7$ °C	4,03	4,03	4,03	4,03
Pdh: $T_j = +12$ °C [kW]	10,1	10,1	10,1	10,1
COPd: $T_j = +12$ °C	4,60	4,60	4,60	4,60
Pdh: $T_j =$ bivalent temperature [kW]	9,1	9,1	9,1	9,1
COPd: $T_j =$ bivalent temperature	2,83	2,83	2,83	2,83
Pdh: $T_j = -15$ °C (if $TOL < -20$ °C) [kW]	9,1	9,1	9,1	9,1
COPd: $T_j = -15$ °C (if $TOL < -20$ °C)	2,83	2,83	2,83	2,83
T_{biv} [°C]	-10	-10	-10	-10
TOL [°C]	-10	-10	-10	-10
WTOL [°C]	65	65	65	65
Annual energy consumption Q_{HE} [kWh]	5176	5176	5176	5176
Power input „compressor off“ [kW] (if applicable)	0	0	0	0
P_{OFF} [W]	0	0	0	0
P_{TO} [W]	84	84	84	84
P_{SB} [W]	9	9	9	9
P_{CK} [W]	0	0	0	0
P_{SUP} [kW]	0	0	0	0
Type of energy input (e.g. electricity)	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]	10,3	10,3	10,3	10,3
El input [kW]	2,05	2,05	2,05	2,05
COP	5,03	5,03	5,03	5,03
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)	(see 55 °C application)
Sound power level outdoor [dB(A)]	-	-	-	-
Declared data regarding ErP regulation				
η_s	215	215	215	215
P_{rated} [kW]	10	10	10	10
SCOP	5,59	5,59	5,59	5,59
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T_j				
$P_{dhTj} = -7\text{ °C}$ [kW]	10,3	10,3	10,3	10,3
$COP_{d Tj} = -7\text{ °C}$	5,03	5,03	5,03	5,03
$P_{dhTj} = +2\text{ °C}$ [kW]	10,3	10,3	10,3	10,3
$COP_{d Tj} = +2\text{ °C}$	5,03	5,03	5,03	5,03
$P_{dh Tj} = +7\text{ °C}$ [kW]	10,4	10,4	10,4	10,4
$COP_{d Tj} = +7\text{ °C}$	5,43	5,43	5,43	5,43
$P_{dh Tj} = +12\text{ °C}$ [kW]	10,6	10,6	10,6	10,6
$COP_{d Tj} = +12\text{ °C}$	6,10	6,10	6,10	6,10
$P_{dh Tj} = \text{bivalent temperature}$ [kW]	10,3	10,3	10,3	10,3
$COP_{d Tj} = \text{bivalent temperature}$	5,03	5,03	5,03	5,03
$P_{dh Tj} = -15\text{ °C}$ (if $TOL < -20\text{ °C}$) [kW]	10,3	10,3	10,3	10,3
$COP_{d Tj} = -15\text{ °C}$ (if $TOL < -20\text{ °C}$)	5,03	5,03	5,03	5,03
T_{biv} [°C]	2	2	2	2
TOL [°C]				
WTOL [°C]	65	65	65	65
Annual energy consumption Q_{HE} [kWh]	2466	2466	2466	2466
Power input „compressor off“ [kW] (if applicable)	0	0	0	0
P_{OFF} [W]	0	0	0	0
P_{TO} [W]	84	84	84	84
P_{SB} [W]	9	9	9	9
P_{CK} [W]	0	0	0	0
P_{SUP} [kW]	0	0	0	0
Type of energy input (e.g. electricity)	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]	10,5	10,5	10,5	10,5
El input[kW]	1,87	1,87	1,87	1,87
COP	5,6	5,6	5,6	5,6
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)	(see 55 °C application)
Sound power level outdoor [dB(A)]	-	-	-	-
Declared date regarding ErP regulation				
η_s	224	224	224	224
P_{rated} [kW]	13	13	13	13
SCOP	5,81	5,81	5,81	5,81
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]	10,5	10,5	10,5	10,5
COPd: $T_j = -7^{\circ}\text{C}$	5,75	5,75	5,75	5,75
Pdh: $T_j = +2^{\circ}\text{C}$ [kW]	10,6	10,6	10,6	10,6
COPd: $T_j = +2^{\circ}\text{C}$	6,07	6,07	6,07	6,07
Pdh: $T_j = +7^{\circ}\text{C}$ [kW]	10,7	10,7	10,7	10,7
COPd: $T_j = +7^{\circ}\text{C}$	6,36	6,36	6,36	6,36
Pdh: $T_j = +12^{\circ}\text{C}$ [kW]	10,7	10,7	10,7	10,7
COPd: $T_j = +12^{\circ}\text{C}$	6,40	6,40	6,40	6,40
Pdh: $T_j = \text{bivalent temperature}$ [kW]	10,5	10,5	10,5	10,5
COPd: $T_j = \text{bivalent temperature}$	5,60	5,60	5,60	5,60
Pdh: $T_j = -15^{\circ}\text{C}$ (if $TOL < -20^{\circ}\text{C}$) [kW]	10,5	10,5	10,5	10,5
COPd: $T_j = -15^{\circ}\text{C}$ (if $TOL < -20^{\circ}\text{C}$)	5,60	5,60	5,60	5,60
T_{biv} [°C]	-15	-15	-15	-15
TOL [°C]	-22	-22	-22	-22
WTOL [°C]	65	65	65	65
Annual energy consumption Q_{HE} [kWh]	5457	5457	5457	5457
Power input „compressor off“ [kW] (if applicable)	0	0	0	0
P_{OFF} [W]	0	0	0	0
P_{TO} [W]	84	84	84	84
P_{SB} [W]	9	9	9	9
P_{CK} [W]	0	0	0	0
P_{SUP} [kW]	2,55	2,55	2,55	2,55
Type of energy input (e.g. electricity)	electricity	electricity	electricity	electricity