



	Heat Pump KEYMARK	 TÜVRheinland®  Genau. Richtig.
Annex D1 Data sheet template		Rev.-No.: 1 Date: 14.12.2015 Page: 1 of 7

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.	011-1W0022
Certification Body	DIN CERTCO Gesellschaft für Konformitätsbewertung mbH
Name of testing laboratory	VDE Prüf- und Zertifizierungsinstitut

	Heat Pump KEYMARK	 TÜVRheinland® DIN CERTCO Genau. Richtig.
Annex D1 Data sheet template		Rev.-No.: 1 Date: 14.12.2015 Page: 2 of 7



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

	WPF 05 S	WPC 05 S	WPC 05 S GB
General data			
Refrigerant	R 410 A	R 410 A	R 410 A
Mass of refrigerant [kg]	1,4	1,4	1,4
GWP according to EU Nr. 517/2014 [CO _{2eq} in t]	2,923	2,923	2,923
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]	5,89	5,89	5,89
El input [kW]	1,23	1,23	1,23
COP	4,80	4,80	4,80
B0/W55			
heat output [kW]	5,26	5,26	5,26
El input [kW]	1,8	1,8	1,8
COP	2,92	2,92	2,92
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

	Heat Pump KEYMARK	 TÜVRheinland® DIN CERTCO Genau. Richtig.
Annex D1 Data sheet template		Rev.-No.: 1 Date: 14.12.2015 Page: 3 of 7



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.

	Heat Pump KEYMARK	 TÜVRheinland® DIN CERTCO Genau. Richtig.
Annex D1 Data sheet template		Rev.-No.: 1 Date: 14.12.2015 Page: 4 of 7

Average Climate Low temperature application (if applicable)			
Declared values EN 14825			
T_{biv} [°C]	T_{biv} at low temperature conditions		
heat output [kW]	5,9	5,9	5,9
El input [kW]	1,23	1,23	1,23
COP	4,78	4,78	4,78
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	201	201	201
P_{rated} [kW]	6	6	6
SCOP	5,22	5,22	5,22
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T_j			
Pdh: $T_j = -7$ °C [kW]	5,9	5,9	5,9
COPd: $T_j = -7$ °C	4,84	4,84	4,84
Pdh: $T_j = +2$ °C [kW]	6,0	6,0	6,0
COPd: $T_j = +2$ °C	5,16	5,16	5,16
Pdh: $T_j = +7$ °C [kW]	6,0	6,0	6,0
COPd: $T_j = +7$ °C	5,48	5,48	5,48
Pdh: $T_j = +12$ °C [kW]	6,1	6,1	6,1
COPd: $T_j = +12$ °C	5,84	5,84	5,84
Pdh: $T_j =$ bivalent temperature [kW]	5,9	5,9	5,9
COPd: $T_j =$ bivalent temperature	4,78	4,78	4,78
Pdh: $T_j = -15$ °C (if $TOL < -20$ °C) [kW]	5,9	5,9	5,9
COPd: $T_j = -15$ °C (if $TOL < -20$ °C)	4,78	4,78	4,78
T_{biv} [°C]	-10	-10	-10
TOL [°C]	-10	-10	-10
WTOL [°C]	60	60	60
Annual energy consumption Q_{HE} [kWh]	2326	2326	2326
Power input „compressor off“ [kW]	0	0	0
P_{OFF} [W]	0	0	0
P_{TO} [W]	55	55	55
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

	Heat Pump KEYMARK	 TÜVRheinland® DIN CERTCO Genau. Richtig.
Annex D1 Data sheet template		Rev.-No.: 1 Date: 14.12.2015 Page: 5 of 7

Average Climate Medium temperature application (if applicable)			
Declared values EN 14825			
T_{biv} [°C]			
heat output [kW]	5,3	5,3	5,3
El input [kW]	1,81	1,81	1,81
COP	2,92	2,92	2,92
Sound power level according EN 12102			
Sound power level indoor if relevant) [dB(A)]	46	46	46
Sound power level outdoor [dB(A)]	-	-	-
Declared data regarding ErP regulation			
η_s	137	137	137
P_{rated} [kW]	5	5	5
SCOP	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]	5,3	5,3	5,3
COPd: $T_j = -7$ °C	3,05	3,05	3,05
Pdh: $T_j = +2$ °C [kW]	5,5	5,5	5,5
COPd: $T_j = +2$ °C	3,58	3,58	3,58
Pdh: $T_j = +7$ °C [kW]	5,7	5,7	5,7
COPd: $T_j = +7$ °C	3,98	3,98	3,98
Pdh: $T_j = +12$ °C [kW]	5,8	5,8	5,8
COPd: $T_j = +12$ °C	4,45	4,45	4,45
Pdh: $T_j =$ bivalent temperature [kW]	5,3	5,3	5,3
COPd: $T_j =$ bivalent temperature	2,92	2,92	2,92
Pdh: $T_j = -15$ °C (if $TOL < -20$ °C) [kW]	5,3	5,3	5,3
COPd: $T_j = -15$ °C (if $TOL < -20$ °C)	2,92	2,92	2,92
T_{biv} [°C]	-10	-10	-10
TOL [°C]	-10	-10	-10
WTOL [°C]	60	60	60
Annual energy consumption Q_{HE} [kWh]	2990	2990	2990
Power input „compressor off“ [kW] (if applicable)	0	0	0
P_{OFF} [W]	0	0	0
P_{TO} [W]	55	55	55
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

	Heat Pump KEYMARK	 TÜVRheinland® DIN CERTCO Genau. Richtig.
Annex D1 Data sheet template		Rev.-No.: 1 Date: 14.12.2015 Page: 6 of 7

Warmer Climate (if applicable)			
Declared values EN 14825 – 35°C application			
T_{biv} [°C]			
heat output [kW]	5,9	5,9	5,9
El input [kW]	1,23	1,23	1,23
COP	4,78	4,78	4,78
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]	6	6	6
SCOP	4,9	4,9	4,9
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T_j			
$P_{dhT_j = -7\text{ °C}}$ [kW]	5,9	5,9	5,9
$COP_{d T_j = -7\text{ °C}}$	4,78	4,78	4,78
$P_{dhT_j = +2\text{ °C}}$ [kW]	5,9	5,9	5,9
$COP_{d T_j = +2\text{ °C}}$	4,78	4,78	4,78
$P_{dh T_j = +7\text{ °C}}$ [kW]	5,9	5,9	5,9
$COP_{d T_j = +7\text{ °C}}$	5,09	5,09	5,09
$P_{dh T_j = +12\text{ °C}}$ [kW]	6,0	6,0	6,0
$COP_{d T_j = +12\text{ °C}}$	5,6	5,6	5,6
$P_{dh T_j = \text{bivalent temperature}}$ [kW]	5,9	5,9	5,9
$COP_{d T_j = \text{bivalent temperature}}$	4,78	4,78	4,78
$P_{dh T_j = -15\text{ °C (if TOL < -20 °C)}}$ [kW]	5,9	5,9	5,9
$COP_{d T_j = -15\text{ °C (if TOL < -20 °C)}}$	4,78	4,78	4,78
T_{biv} [°C]	2	2	2
TOL [°C]	2	2	2
WTOL [°C]	60	60	60
Annual energy consumption Q_{HE} [kWh]	1517	1517	1517
Power input „compressor off“ [kW] (if applicable)	0	0	0
P_{OFF} [W]	0	0	0
P_{TO} [W]	55	55	55
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



Heat Pump KEYMARK



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Annex D1
Data sheet templateRev.-No.: 1
Date: 14.12.2015
Page: 7 of 7

Colder Climate (if applicable)			
Declared values EN 14825 – 35°C application			
$T_{biv}/^{\circ}\text{C}$			
heat output [kW]	6,0	6,0	6,0
El input [kW]	1,15	1,15	1,15
COP	5,22	5,22	5,22
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	207	207	207
P_{rated} [kW]	7	7	7
SCOP	5,11	5,11	5,11
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]	6,0	6,0	6,0
COPd: $T_j = - 7^{\circ}\text{C}$	5,33	5,33	5,33
Pdh: $T_j = + 2^{\circ}\text{C}$ [kW]	6,0	6,0	6,0
COPd: $T_j = + 2^{\circ}\text{C}$	5,58	5,58	5,58
Pdh: $T_j = + 7^{\circ}\text{C}$ [kW]	6,1	6,1	6,1
COPd: $T_j = + 7^{\circ}\text{C}$	5,79	5,79	5,79
Pdh: $T_j = + 12^{\circ}\text{C}$ [kW]	6,1	6,1	6,1
COPd: $T_j = + 12^{\circ}\text{C}$	5,52	5,52	5,52
Pdh: $T_j = \text{bivalent temperature}$ [kW]	6,0	6,0	6,0
COPd: $T_j = \text{bivalent temperature}$	5,22	5,22	5,22
Pdh: $T_j = - 15^{\circ}\text{C}$ (if $TOL < - 20^{\circ}\text{C}$) [kW]	6,0	6,0	6,0
COPd: $T_j = - 15^{\circ}\text{C}$ (if $TOL < - 20^{\circ}\text{C}$)	5,22	5,22	5,22
T_{biv} [°C]	-15	-15	-15
TOL [°C]	-22	-22	-22
WTOL [°C]	60	60	60
Annual energy consumption Q_{HE} [kWh]	3362	3362	3362
Power input „compressor off“ [kW] (if applicable)	0	0	0
P_{OFF} [W]	0	0	0
P_{TO} [W]	55	55	55
P_{SB} [W]	10	10	10
P_{CK} [W]	0	0	0
P_{SUP} [kW]	1,44	1,44	1,44
Type of energy input (e.g. electricity)	electricity	electricity	electricity