
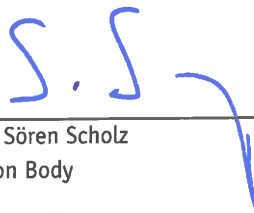


CERTIFICATE



Certificate holder	Stibel Eltron GmbH & Co. KG Dr.-Stibel-Str. 33 37603 Holzminden GERMANY
Production facility	Holzminden
Product	Air/Water Heat pumps
Type, Model	Air/Water - WPL 20 A, WPL 20 AC
Testing basis	DIN EN 14511-1; DIN EN 14511-2; DIN EN 14511-3; DIN EN 14511-4:2013-12 DIN EN 12102:2013-10 European KEYMARK Scheme Heat Pumps Rev. 1.1 (2016-05)
Mark of conformity	
Registration No.	011-1W0071
Valid until	2027-02-28
Right of use	This certificate entitles the holder to use the mark of conformity shown above in conjunction with the specified registration number. See annex for further information.



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Certificate	011-1W0071 dated 2017-02-15
Technical Data	See technical data sheet to the above mentioned registration number at www.dincertco.tuv.com
Testing laboratory/ Inspection body	VDE Prüf- und Zertifizierungs- institut GmbH Merianstr. 26-28 63069 Offenbach GERMANY
Test report(s)	222921-AS9-4 dated 2016-10-19



	Heat Pump KEYMARK	 TÜVRheinland [®] DIN CERTCO 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

2



Certificate data	
Certificate holder name	Stiebel Eltron GmbH & Co. KG
Address	Dr.-Stiebel-Straße 33, 37603 Holzminden Germany
Type of heat pump	Air/Water
Reg. No.	011-1W0071
Certification Body	DIN CERTCO Gesellschaft für Konformitätsbewertung mbH
Name of testing laboratory	VDE Prüf- und Zertifizierungsinstitut

	Heat Pump KEYMARK	 Genau. Richtig.
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1. Air/Water; Brine/Water; Water/Water heat pumps (if applicable)

	WPL 20 A	WPL 20 AC	
General data			
Refrigerant	R410 A	R410 A	
Mass of refrigerant [kg]	5,5	5,5	
GWP according to EU Nr. 517/2014 [CO _{2eq}]	11,484	11,484	
Frequency [Hz]	50	50	
Voltage [V]	400	400	
Test points EN 14511-2 Air/Water heat pump (if applicable)			
A7/W35			
heat output [kW]	6,13	6,13	
El input [kW]	1,37	1,37	
COP	4,48	4,48	
A7/W55 (if applicable)			
heat output [kW]	7,76	7,76	
El input [kW]	2,53	2,53	
COP	3,07	3,07	
Test points EN 14511-2 Brine/Water heat pump (if applicable)			
B0/W35			
heat output [kW]			
El input [kW]			
COP			
B0/W55			
heat output [kW]			
El input [kW]			
COP			
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.
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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	
operating Range A.../W... upper limit- upper limit (min)			
Please state if the requirement is passed or failed	passed	passed	
Shutting off the heat transfer medium flow			
Please state if the requirement is passed or failed	passed	passed	
Complete power supply failure			
Please state if the requirement is passed or failed	passed	passed	
Defrost test only for AirT Water heat pumps (if applicable)			
Please state if the requirement is passed or failed	passed	passed	

	Heat Pump KEYMARK	 Genau. Richtig.
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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]	8,8	8,8	
El input [kW]	2,54	2,54	
COP	3,46	3,46	
Sound power level according EN 12102			
Sound power level indoor if relevant) [dB(A)]	-	-	
Sound power level outdoor [dB(A)]	(see 55°C application)	(see 55°C application)	
Declared data regarding ErP regulation			
η_s	169	176	
P_{rated} [kW]	11	11	
SCOP	4,3	4,47	
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T_j			
Pdh: $T_j = -7$ °C [kW]	9,5	9,5	
COPd: $T_j = -7$ °C	3,3	3,3	
Pdh: $T_j = +2$ °C [kW]	6,5	6,5	
COPd: $T_j = +2$ °C	4,44	4,44	
Pdh: $T_j = +7$ °C [kW]	6	6	
COPd: $T_j = +7$ °C	5,31	5,31	
Pdh: $T_j = +12$ °C [kW]	5,2	5,2	
COPd: $T_j = +12$ °C	6,26	6,26	
Pdh: $T_j =$ bivalent temperature [kW]	8,8	8,8	
COPd: $T_j =$ bivalent temperature	3,46	3,46	
Pdh: $T_j = -15$ °C (if $TOL < -20$ °C) [kW]	12	12	
COPd: $T_j = -15$ °C (if $TOL < -20$ °C)	2,92	2,92	
T_{biv} [°C]	-5	-5	
TOL [°C]	-20	-20	
WTOL [°C]	65	65	
Annual energy consumption Q_{HE} [kWh]	5258	5041	
Power input „compressor off“ [W]	10	10	
P_{OFF} [W]	16	16	
P_{TO} [W]	16	16	
P_{SB} [W]	16	16	
P_{CK} [W]	43	43	
P_{SUP} [kW]	0,48	0,48	
Type of energy input (e.g. electricity)	electricity	electricity	

	Heat Pump KEYMARK	 TÜVRheinland [®] DIN CERTCO Genau. Richtig.
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Average Climate Medium temperature application (if applicable)			
Declared values EN 14825			
T_{biv} [°C]			
heat output [kW]	9,9	9,9	
El input [kW]	3,52	3,52	
COP	2,81	2,81	
Sound power level according EN 12102			
Sound power level indoor if relevant) [dB(A)]	-	-	
Sound power level outdoor [dB(A)]	56	56	
Declared data regarding ErP regulation			
η_s	134 %	162 %	
P_{rated} [kW]	12	15	
SCOP	3,42	4,12	
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T_j			
Pdh: $T_j = -7$ °C [kW]	10,6	9,2	
COPd: $T_j = -7$ °C	2,69	3,50	
Pdh: $T_j = +2$ °C [kW]	7,4	6,3	
COPd: $T_j = +2$ °C	3,45	4,83	
Pdh: $T_j = +7$ °C [kW]	6,2	6,0	
COPd: $T_j = +7$ °C	4,12	5,64	
Pdh: $T_j = +12$ °C [kW]	5,0	5,2	
COPd: $T_j = +12$ °C	5,12	6,25	
Pdh: $T_j =$ bivalent temperature [kW]	9,9	9,2	
COPd: $T_j =$ bivalent temperature	2,81	3,50	
Pdh: $T_j = -15$ °C (if $TOL < -20$ °C) [kW]	13,1	11,8	
COPd: $T_j = -15$ °C (if $TOL < -20$ °C)	2,36	3,06	
T_{biv} [°C]	-5	-7	
TOL [°C]	-20	-20	
WTOL [°C]	65	65	
Annual energy consumption Q_{HE} [kWh]	7355	9123	
Power input „compressor off“ [kW] (if applicable)	0	0	
P_{OFF} [W]	16	16	
P_{TO} [W]	16	16	
P_{SB} [W]	16	16	
P_{CK} [W]	43	43	
P_{SUP} [kW]	0,69	15,27	
Type of energy input (e.g. electricity)	electricity	electricity	

	Heat Pump KEYMARK	 Genau. Richtig.
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Warmer Climate (if applicable)			
Declared values EN 14825 – 35°C application			
T_{biv} [°C]			
heat output [kW]	9,2	9,2	
El input [kW]	2,63	2,63	
COP	3,5	3,5	
Sound power level according EN 12102			
Sound power level indoor if relevant) [dB(A)]	-	-	
Sound power level outdoor [dB(A)]	(see 55°C application)	(see 55°C application)	
Declared data regarding ErP regulation			
η_s	175	201	
P_{rated} [kW]	7	7	
SCOP	4,45	5,1	
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T_j			
$P_{dhTj} = -7\text{ °C}$ [kW]	9,5	9,5	
$COP_{d Tj} = -7\text{ °C}$	3,26	3,26	
$P_{dhTj} = +2\text{ °C}$ [kW]	6,8	6,8	
$COP_{d Tj} = +2\text{ °C}$	3,99	3,99	
$P_{dh Tj} = +7\text{ °C}$ [kW]	6,1	6,1	
$COP_{d Tj} = +7\text{ °C}$	4,79	4,79	
$P_{dh Tj} = +12\text{ °C}$ [kW]	5,2	5,2	
$COP_{d Tj} = +12\text{ °C}$	5,95	5,95	
$P_{dh Tj} = \text{bivalent temperature}$ [kW]	6,8	6,8	
$COP_{d Tj} = \text{bivalent temperature}$	3,99	3,99	
$P_{dh Tj} = -15\text{ °C}$ (if $TOL < -20\text{ °C}$) [kW]	11,9	11,9	
$COP_{d Tj} = -15\text{ °C}$ (if $TOL < -20\text{ °C}$)	2,98	2,98	
T_{biv} [°C]	2	2	
TOL [°C]	2	2	
WTOL [°C]	65	65	
Annual energy consumption Q_{HE} [kWh]	2054	1793	
Power input „compressor off“ [W] (if applicable)	10	10	
P_{OFF} [W]	16	16	
P_{TO} [W]	16	16	
P_{SB} [W]	16	16	
P_{CK} [W]	43	43	
P_{SUP} [kW]	0	0	
Type of energy input (e.g. electricity)	electricity	electricity	

	Heat Pump KEYMARK	 Genau. Richtig.
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Colder Climate (if applicable)			
Declared values EN 14825 – 35°C application			
$T_{biv}/^{\circ}\text{C}$			
heat output [kW]	9,2	9,2	
El input[kW]	2,63	2,63	
COP	3,5	3,5	
Sound power level according EN12102			
Sound power level indoor if relevant) [dB(A)]	-	-	
Sound power level outdoor [dB(A)]	(see 55°C application)	(see 55°C application)	
Declared date regarding ErP regulation			
η_s	160	162	
P_{rated} [kW]	15	15	
SCOP	4,07	4,12	
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]	9,2	9,2	
COPd: $T_j = - 7^{\circ}\text{C}$	3,50	3,50	
Pdh: $T_j = +2^{\circ}\text{C}$ [kW]	6,3	6,3	
COPd: $T_j = + 2^{\circ}\text{C}$	4,83	4,83	
Pdh: $T_j = +7^{\circ}\text{C}$ [kW]	6,0	6,0	
COPd: $T_j = + 7^{\circ}\text{C}$	5,64	5,64	
Pdh: $T_j = +12^{\circ}\text{C}$ [kW]	5,2	5,2	
COPd: $T_j = + 12^{\circ}\text{C}$	6,25	6,25	
Pdh: $T_j = \text{bivalent temperature}$ [kW]	9,2	9,2	
COPd: $T_j = \text{bivalent temperature}$	3,50	3,50	
Pdh: $T_j = - 15^{\circ}\text{C}$ (if $TOL < - 20^{\circ}\text{C}$) [kW]	11,8	11,8	
COPd: $T_j = - 15^{\circ}\text{C}$ (if $TOL < - 20^{\circ}\text{C}$)	3,06	3,06	
T_{biv} [°C]	-7	-7	
TOL [°C]	-20	-20	
WTOL [°C]	65	65	
Annual energy consumption Q_{HE} [kWh]	9253	9123	
Power input „compressor off“ [W] (if applicable)	10	10	
P_{OFF} [W]	16	16	
P_{TO} [W]	16	16	
P_{SB} [W]	16	16	
P_{CK} [W]	43	43	
P_{SUP} [kW]	15,27	15,27	
Type of energy input (e.g. electricity)	electricity	electricity	



	Heat Pump KEYMARK	 TÜVRheinland[®] DIN CERTCO 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

2



Certificate data	
Certificate holder name	Stiebel Eltron GmbH & Co. KG
Address	Dr.-Stiebel-Straße 33, 37603 Holzminden Germany
Type of heat pump	Air/Water
Reg. No.	011-1W0071
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)

	WPL 20 A	WPL 20 AC	
General data			
Refrigerant	R410 A	R410 A	
Mass of refrigerant [kg]	5,5	5,5	
GWP according to EU Nr. 517/2014 [CO _{2eq}]	11,484	11,484	
Frequency [Hz]	50	50	
Voltage [V]	400	400	
Test points EN 14511-2 Air/Water heat pump (if applicable)			
A7/W35			
heat output [kW]	6,13	6,13	
El input [kW]	1,37	1,37	
COP	4,48	4,48	
A7/W55 (if applicable)			
heat output [kW]	7,76	7,76	
El input [kW]	2,53	2,53	
COP	3,07	3,07	
Test points EN 14511-2 Brine/Water heat pump (if applicable)			
B0/W35			
heat output [kW]			
El input [kW]			
COP			
B0/W55			
heat output [kW]			
El input [kW]			
COP			
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.
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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	
operating Range A.../W... upper limit- upper limit (min)			
Please state if the requirement is passed or failed	passed	passed	
Shutting off the heat transfer medium flow			
Please state if the requirement is passed or failed	passed	passed	
Complete power supply failure			
Please state if the requirement is passed or failed	passed	passed	
Defrost test only for AirT Water heat pumps (if applicable)			
Please state if the requirement is passed or failed	passed	passed	

	Heat Pump KEYMARK	 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]	8,8	8,8	
El input [kW]	2,54	2,54	
COP	3,46	3,46	
Sound power level according EN 12102			
Sound power level indoor if relevant) [dB(A)]	-	-	
Sound power level outdoor [dB(A)]	(see 55°C application)	(see 55°C application)	
Declared data regarding ErP regulation			
η_s	169	176	
P_{rated} [kW]	11	11	
SCOP	4,3	4,47	
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T_j			
Pdh: $T_j = -7$ °C [kW]	9,5	9,5	
COPd: $T_j = -7$ °C	3,3	3,3	
Pdh: $T_j = +2$ °C [kW]	6,5	6,5	
COPd: $T_j = +2$ °C	4,44	4,44	
Pdh: $T_j = +7$ °C [kW]	6	6	
COPd: $T_j = +7$ °C	5,31	5,31	
Pdh: $T_j = +12$ °C [kW]	5,2	5,2	
COPd: $T_j = +12$ °C	6,26	6,26	
Pdh: $T_j =$ bivalent temperature [kW]	8,8	8,8	
COPd: $T_j =$ bivalent temperature	3,46	3,46	
Pdh: $T_j = -15$ °C (if $TOL < -20$ °C) [kW]	12	12	
COPd: $T_j = -15$ °C (if $TOL < -20$ °C)	2,92	2,92	
T_{biv} [°C]	-5	-5	
TOL [°C]	-20	-20	
WTOL [°C]	65	65	
Annual energy consumption Q_{HE} [kWh]	5258	5041	
Power input „compressor off“ [W]	10	10	
P_{OFF} [W]	16	16	
P_{TO} [W]	16	16	
P_{SB} [W]	16	16	
P_{CK} [W]	43	43	
P_{SUP} [kW]	0,48	0,48	
Type of energy input (e.g. 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]	9,9	9,9	
El input [kW]	3,52	3,52	
COP	2,81	2,81	
Sound power level according EN 12102			
Sound power level indoor if relevant) [dB(A)]	-	-	
Sound power level outdoor [dB(A)]	56	56	
Declared data regarding ErP regulation			
η_s	134 %	162 %	
P_{rated} [kW]	12	15	
SCOP	3,42	4,12	
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T_j			
Pdh: $T_j = - 7$ °C [kW]	10,6	9,2	
COPd: $T_j = - 7$ °C	2,69	3,50	
Pdh: $T_j = +2$ °C [kW]	7,4	6,3	
COPd: $T_j = + 2$ °C	3,45	4,83	
Pdh: $T_j = +7$ °C [kW]	6,2	6,0	
COPd: $T_j = + 7$ °C	4,12	5,64	
Pdh: $T_j = +12$ °C [kW]	5,0	5,2	
COPd: $T_j = + 12$ °C	5,12	6,25	
Pdh: $T_j =$ bivalent temperature [kW]	9,9	9,2	
COPd: $T_j =$ bivalent temperature	2,81	3,50	
Pdh: $T_j = - 15$ °C (if $TOL < - 20$ °C) [kW]	13,1	11,8	
COPd: $T_j = - 15$ °C (if $TOL < - 20$ °C)	2,36	3,06	
T_{biv} [°C]	-5	-7	
TOL [°C]	-20	-20	
WTOL [°C]	65	65	
Annual energy consumption Q_{HE} [kWh]	7355	9123	
Power input „compressor off“ [kW] (if applicable)	0	0	
P_{OFF} [W]	16	16	
P_{TO} [W]	16	16	
P_{SB} [W]	16	16	
P_{CK} [W]	43	43	
P_{SUP} [kW]	0,69	15,27	
Type of energy input (e.g. electricity)	electricity	electricity	

	Heat Pump KEYMARK	 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]	9,2	9,2	
El input [kW]	2,63	2,63	
COP	3,5	3,5	
Sound power level according EN 12102			
Sound power level indoor if relevant) [dB(A)]	-	-	
Sound power level outdoor [dB(A)]	(see 55°C application)	(see 55°C application)	
Declared data regarding ErP regulation			
η_s	175	201	
P_{rated} [kW]	7	7	
SCOP	4,45	5,1	
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T_j			
$P_{dhTj} = -7\text{ °C}$ [kW]	9,5	9,5	
$COP_{d Tj} = -7\text{ °C}$	3,26	3,26	
$P_{dhTj} = +2\text{ °C}$ [kW]	6,8	6,8	
$COP_{d Tj} = +2\text{ °C}$	3,99	3,99	
$P_{dh Tj} = +7\text{ °C}$ [kW]	6,1	6,1	
$COP_{d Tj} = +7\text{ °C}$	4,79	4,79	
$P_{dh Tj} = +12\text{ °C}$ [kW]	5,2	5,2	
$COP_{d Tj} = +12\text{ °C}$	5,95	5,95	
$P_{dh Tj} = \text{bivalent temperature}$ [kW]	6,8	6,8	
$COP_{d Tj} = \text{bivalent temperature}$	3,99	3,99	
$P_{dh Tj} = -15\text{ °C}$ (if $TOL < -20\text{ °C}$) [kW]	11,9	11,9	
$COP_{d Tj} = -15\text{ °C}$ (if $TOL < -20\text{ °C}$)	2,98	2,98	
T_{biv} [°C]	2	2	
TOL [°C]	2	2	
WTOL [°C]	65	65	
Annual energy consumption Q_{HE} [kWh]	2054	1793	
Power input „compressor off“ [W] (if applicable)	10	10	
P_{OFF} [W]	16	16	
P_{TO} [W]	16	16	
P_{SB} [W]	16	16	
P_{CK} [W]	43	43	
P_{SUP} [kW]	0	0	
Type of energy input (e.g. electricity)	electricity	electricity	

	Heat Pump KEYMARK	 Genau. Richtig.
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Colder Climate (if applicable)			
Declared values EN 14825 – 35°C application			
$T_{biv}/^{\circ}\text{C}$			
heat output [kW]	9,2	9,2	
El input[kW]	2,63	2,63	
COP	3,5	3,5	
Sound power level according EN12102			
Sound power level indoor if relevant) [dB(A)]	-	-	
Sound power level outdoor [dB(A)]	(see 55°C application)	(see 55°C application)	
Declared date regarding ErP regulation			
η_s	160	162	
P_{rated} [kW]	15	15	
SCOP	4,07	4,12	
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T_j			
$P_{dh}: T_j = - 7^{\circ}\text{C}$ [kW]	9,2	9,2	
$COP_d: T_j = - 7^{\circ}\text{C}$	3,50	3,50	
$P_{dh}: T_j = +2^{\circ}\text{C}$ [kW]	6,3	6,3	
$COP_d: T_j = + 2^{\circ}\text{C}$	4,83	4,83	
$P_{dh}: T_j = +7^{\circ}\text{C}$ [kW]	6,0	6,0	
$COP_d: T_j = + 7^{\circ}\text{C}$	5,64	5,64	
$P_{dh}: T_j = +12^{\circ}\text{C}$ [kW]	5,2	5,2	
$COP_d: T_j = + 12^{\circ}\text{C}$	6,25	6,25	
$P_{dh}: T_j = \text{bivalent temperature}$ [kW]	9,2	9,2	
$COP_d: T_j = \text{bivalent temperature}$	3,50	3,50	
$P_{dh}: T_j = - 15^{\circ}\text{C}$ (if $TOL < - 20^{\circ}\text{C}$) [kW]	11,8	11,8	
$COP_d: T_j = - 15^{\circ}\text{C}$ (if $TOL < - 20^{\circ}\text{C}$)	3,06	3,06	
T_{biv} [°C]	-7	-7	
TOL [°C]	-20	-20	
WTOL [°C]	65	65	
Annual energy consumption Q_{HE} [kWh]	9253	9123	
Power input „compressor off“ [W] (if applicable)	10	10	
P_{OFF} [W]	16	16	
P_{TO} [W]	16	16	
P_{SB} [W]	16	16	
P_{CK} [W]	43	43	
P_{SUP} [kW]	15,27	15,27	
Type of energy input (e.g. electricity)	electricity	electricity	