

Subtype HPG-I 12/15 (D)(C)S Premium

Certificate Holder	STIEBEL ELTRON GmbH & Co KG
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Certification Body	DIN CERTCO Gesellschaft für Konformitätsbewertung mbH
Subtype title	HPG-I 12/15 (D)(C)S Premium
Registration number	011-1W0474
Heat Pump Type	Brine/Water
Refrigerant	R454C
Mass of Refrigerant	3.1 kg
Certification Date	26.08.2021
Testing basis	European KEYMARK Scheme for Heat Pumps Rev. 8 (as of 2020-09)

Model HPG-I 12 (D)(C)S Premium

Model name	HPG-I 12 (D)(C)S Premium
Application	Heating (medium temp)
Units	Indoor
Climate zone (for heating)	Warmer Climate, Colder Climate
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

General data

Power supply	3x400V 50Hz
Off-peak product	No

Brine/Water

EN 14511-4 | Heating

Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed
Starting and operating test	passed

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	39 dB(A)	39 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
η_s	216 %	169 %
Prated	12.03 kW	11.99 kW
SCOP	5.59	4.42
Tbiv	-10 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	10.61 kW	10.59 kW
COP Tj = -7°C	4.81	3.55
Cdh Tj = -7 °C	0.90	0.90
Pdh Tj = +2°C	6.45 kW	6.44 kW
COP Tj = +2°C	5.72	4.49
Cdh Tj = +2 °C	0.90	0.90
Pdh Tj = +7°C	4.14 kW	4.13 kW
COP Tj = +7°C	6.12	4.99
Cdh Tj = +7 °C	0.90	0.90
Pdh Tj = 12°C	2.30 kW	2.21 kW
COP Tj = 12°C	6.29	5.25
Cdh Tj = +12 °C	0.90	0.90
Pdh Tj = Tbiv	12.03 kW	11.99 kW
COP Tj = Tbiv	4.53	3.29

Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	12.03 kW	11.99 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.53	3.29
WTOL	75 °C	75 °C
Poff	19 W	19 W
PTO	19 W	19 W
PSB	19 W	19 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	4445 kWh	5607 kWh

EN 12102-1 | Colder Climate

	Low temperature	Medium temperature
Sound power level indoor	39 dB(A)	39 dB(A)

EN 14825 | Colder Climate

	Low temperature	Medium temperature
ηs	224 %	174 %
Prated	12.03 kW	11.99 kW
SCOP	5.80	4.56
Tbiv	-22 °C	-22 °C
TOL	-22 °C	-22 °C
Pdh Tj = -7°C	7.26 kW	7.24 kW
COP Tj = -7°C	5.69	4.31
Cdh Tj = -7 °C	0.90	0.90
Pdh Tj = +2°C	4.41 kW	4.40 kW
COP Tj = +2°C	6.16	4.91
Cdh Tj = +2 °C	0.90	0.90
Pdh Tj = +7°C	2.82 kW	2.82 kW
COP Tj = +7°C	6.19	5.16
Cdh Tj = +7 °C	0.90	0.90
Pdh Tj = 12°C	2.29 kW	2.23 kW
COP Tj = 12°C	6.12	5.40
Cdh Tj = +12 °C	0.90	0.90
Pdh Tj = Tbiv	12.03 kW	11.99 kW
COP Tj = Tbiv	4.53	3.29
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	12.03 kW	11.99 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.53	3.29
WTOL	75 °C	75 °C
Poff	19 W	19 W
PTO	19 W	19 W
PSB	19 W	19 W

PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Q _{he}	5108 kWh	6485 kWh

EN 12102-1 | Warmer Climate

	Low temperature	Medium temperature
Sound power level indoor	39 dB(A)	39 dB(A)

EN 14825 | Warmer Climate

	Low temperature	Medium temperature
η_s	214 %	168 %
Prated	12.03 kW	11.99 kW
SCOP	5.55	4.39
T _{biv}	2 °C	2 °C
TOL	2 °C	2 °C
P _{dh} T _j = +2°C	12.03 kW	11.99 kW
COP T _j = +2°C	4.53	3.29
C _{dh} T _j = +2 °C	0.90	0.90
P _{dh} T _j = +7°C	7.71 kW	7.69 kW
COP T _j = +7°C	5.51	4.12
C _{dh} T _j = +7 °C	0.90	0.90
P _{dh} T _j = 12°C	3.41 kW	3.41 kW
COP T _j = 12°C	6.14	5.10
C _{dh} T _j = +12 °C	0.90	0.90
P _{dh} T _j = T _{biv}	12.03 kW	11.99 kW
COP T _j = T _{biv}	4.53	3.29
P _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	12.03 kW	11.99 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	4.53	3.29
WTOL	75 °C	75 °C
P _{off}	19 W	19 W
PTO	19 W	19 W
PSB	19 W	19 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Q _{he}	2896 kWh	3650 kWh

Model HPG-I 15 (D)(C)S Premium

Model name	HPG-I 15 (D)(C)S Premium
Application	Heating (medium temp)
Units	Indoor
Climate zone (for heating)	Warmer Climate, Colder Climate
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

General data

Power supply	3x400V 50Hz
Off-peak product	No

Brine/Water

EN 14511-4 | Heating

Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed
Starting and operating test	passed

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	39 dB(A)	39 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
η_s	210 %	168 %
Prated	14.46 kW	13.77 kW
SCOP	5.44	4.39
Tbiv	-10 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	12.77 kW	12.16 kW
COP Tj = -7°C	4.46	3.40
Cdh Tj = -7 °C	0.90	0.90
Pdh Tj = +2°C	7.76 kW	7.40 kW
COP Tj = +2°C	5.51	4.44
Cdh Tj = +2 °C	0.90	0.90
Pdh Tj = +7°C	4.98 kW	4.75 kW
COP Tj = +7°C	6.13	5.03
Cdh Tj = +7 °C	0.90	0.90
Pdh Tj = 12°C	2.29 kW	2.22 kW
COP Tj = 12°C	6.18	5.31
Cdh Tj = +12 °C	0.90	0.90
Pdh Tj = Tbiv	14.46 kW	13.77 kW
COP Tj = Tbiv	4.30	3.26

Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	14.46 kW	13.77 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.30	3.26
WTOL	75 °C	75 °C
Poff	19 W	19 W
PTO	19 W	19 W
PSB	19 W	19 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	5489 kWh	6476 kWh

EN 12102-1 | Colder Climate

	Low temperature	Medium temperature
Sound power level indoor	39 dB(A)	39 dB(A)

EN 14825 | Colder Climate

	Low temperature	Medium temperature
η_s	218 %	174 %
Prated	14.46 kW	13.77 kW
SCOP	5.66	4.56
Tbiv	-22 °C	-22 °C
TOL	-22 °C	-22 °C
Pdh Tj = -7°C	8.73 kW	8.32 kW
COP Tj = -7°C	5.32	4.24
Cdh Tj = -7 °C	0.90	0.90
Pdh Tj = +2°C	5.30 kW	5.05 kW
COP Tj = +2°C	6.15	4.94
Cdh Tj = +2 °C	0.90	0.90
Pdh Tj = +7°C	3.40 kW	3.24 kW
COP Tj = +7°C	6.27	5.24
Cdh Tj = +7 °C	0.90	0.90
Pdh Tj = 12°C	2.29 kW	2.23 kW
COP Tj = 12°C	6.12	5.44
Cdh Tj = +12 °C	0.90	0.90
Pdh Tj = Tbiv	14.46 kW	13.77 kW
COP Tj = Tbiv	4.30	3.26
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	14.46 kW	13.77 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.30	3.26
WTOL	75 °C	75 °C
Poff	19 W	19 W
PTO	19 W	19 W
PSB	19 W	19 W

PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Q _{he}	6298 kWh	7451 kWh

EN 12102-1 | Warmer Climate

	Low temperature	Medium temperature
Sound power level indoor	39 dB(A)	39 dB(A)

EN 14825 | Warmer Climate

	Low temperature	Medium temperature
η_s	208 %	167 %
Prated	14.46 kW	13.77 kW
SCOP	5.41	4.37
T _{biv}	2 °C	2 °C
TOL	2 °C	2 °C
P _{dh} T _j = +2°C	14.46 kW	13.77 kW
COP T _j = +2°C	4.30	3.26
C _{dh} T _j = +2 °C	0.90	0.90
P _{dh} T _j = +7°C	9.27 kW	8.83 kW
COP T _j = +7°C	5.13	3.99
C _{dh} T _j = +7 °C	0.90	0.90
P _{dh} T _j = 12°C	4.11 kW	3.92 kW
COP T _j = 12°C	6.17	5.16
C _{dh} T _j = +12 °C	0.90	0.90
P _{dh} T _j = T _{biv}	14.46 kW	13.77 kW
COP T _j = T _{biv}	4.30	3.26
P _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	14.46 kW	13.77 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	4.30	3.26
WTOL	75 °C	75 °C
P _{off}	19 W	19 W
PTO	19 W	19 W
PSB	19 W	19 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Q _{he}	3573 kWh	4211 kWh