

Subtype KCHP ARCTIC POWER 65, 75

Certificate Holder	Klima-Therm Sp. z o.o
Address	Ostrobramska 101a
ZIP	04-041
City	Warszawa
Country	PL
Certification Body	BRE Global Limited
Subtype title	KCHP ARCTIC POWER 65, 75
Registration number	041-K016-05
Heat Pump Type	Outdoor Air/Water
Refrigerant	R32
Mass of Refrigerant	9 kg
Certification Date	13.05.2024
Testing basis	Heat Pump KEYMARK certification Scheme rules v13
Testing laboratory	Intertek Testing Services Shenzhen LTD. Guangzhou Branch, CN

Model KCHP-SU65-RN8L

Model name	KCHP-SU65-RN8L
Application	Heating (medium temp)
Units	Outdoor
Climate zone (for heating)	Colder, Warmer
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

General data

Power supply	1x230V 50Hz
Off-peak product	n/a

Outdoor Air/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 14511-2 | Heating

	Low temperature	Medium temperature
Heat output	64 kW	65 kW
EI input	15.24 kW	18.3 kW
COP	4.2	3.55

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level outdoor	80 dB(A)	80 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
η_s	177 %	133 %
Prated	48 kW	40 kW
SCOP	4.5	3.4
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	42.18 kW	35.59 kW
COP Tj = -7°C	3.24	2.42
Cdh Tj = -7 °C	0.9	0.9
Pdh Tj = +2°C	24.59 kW	21.61 kW
COP Tj = +2°C	4.15	3.18
Cdh Tj = +2 °C	0.9	0.9
Pdh Tj = +7°C	24 kW	15.06 kW
COP Tj = +7°C	6.2	4.46

Cdh Tj = +7 °C	0.9	0.9
Pdh Tj = 12°C	20.68 kW	18.43 kW
COP Tj = 12°C	8.23	6.06
Cdh Tj = +12 °C	0.9	0.9
Pdh Tj = Tbiv	42.18 kW	35.59 kW
COP Tj = Tbiv	3.24	2.42
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	47.6 kW	39.8 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.71	1.83
WTOL	65 °C	65 °C
Poff	80 W	80 W
PTO	350 W	350 W
PSB	80 W	80 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.4 kW	0.2 kW
Annual energy consumption Qhe	22032 kWh	24290 kWh

EN 12102-1 | Colder Climate

	Low temperature	Medium temperature
Sound power level outdoor	80 dB(A)	80 dB(A)

EN 14825 | Colder Climate

	Low temperature	Medium temperature
ηs	152 %	106 %
Prated	40.00 kW	34.00 kW
SCOP	3.88	2.73
Tbiv	-15 °C	-15 °C
TOL	-22 °C	-18 °C
Pdh Tj = -7°C	24.57 kW	21.53 kW
COP Tj = -7°C	3.11	2.55
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	15.59 kW	12.29 kW
COP Tj = +2°C	4.65	3.03
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	12.61 kW	11.14 kW
COP Tj = +7°C	5.63	3.80
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	15.31 kW	14.28 kW
COP Tj = 12°C	7.37	5.77
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	32.81 kW	27.88 kW
COP Tj = Tbiv	2.71	1.83
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	37.22 kW	31.81 kW

COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	1.97	1.71
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh		
WTOL	65 °C	65 °C
Poff	80 W	80 W
PTO	350 W	350 W
PSB	80 W	80 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	2.78 kW	34.00 kW
Annual energy consumption Qhe	25415 kWh	30683 kWh
Pdh Tj = -15°C (if TOL)	32.81	27.88
COP Tj = -15°C (if TOL	2.71	1.83
Cdh Tj = -15 °C	0.900	0.900

EN 12102-1 | Warmer Climate

	Low temperature	Medium temperature
Sound power level outdoor	80 dB(A)	80 dB(A)

EN 14825 | Warmer Climate

	Low temperature	Medium temperature
ηs	237 %	161 %
Prated	48 kW	40 kW
SCOP	6	4.12
Tbiv	7 °C	7 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	47.76 kW	39.82 kW
COP Tj = +2°C	3.23	2.01
Cdh Tj = +2 °C	0.9	0.9
Pdh Tj = +7°C	30.59 kW	24.93 kW
COP Tj = +7°C	5.47	3.71
Cdh Tj = +7 °C	0.9	0.9
Pdh Tj = 12°C	15.7 kW	12.35 kW
COP Tj = 12°C	7.65	5.27
Cdh Tj = +12 °C	0.9	0.9
Pdh Tj = Tbiv	30.59 kW	24.93 kW
COP Tj = Tbiv	5.47	3.71
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	47.76 kW	39.82 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.23	2.01
WTOL	65 °C	65 °C
Poff	80 W	80 W
PTO	350 W	350 W
PSB	80 W	80 W

PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.24 kW	0.18 kW
Annual energy consumption Qhe	10683 kWh	12970 kWh

Model KCHP-SU75-RN8L

Model name	KCHP-SU75-RN8L
Application	Heating (medium temp)
Units	Outdoor
Climate zone (for heating)	Colder, Warmer
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

General data

Power supply	1x230V 50Hz
Off-peak product	n/a

Outdoor Air/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 14511-2 | Heating

	Low temperature	Medium temperature
Heat output	77 kW	75 kW
EI input	19.74 kW	22.06 kW
COP	3.9	3.4

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level outdoor	86 dB(A)	86 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
η_s	177 %	133 %
Prated	48 kW	40 kW
SCOP	4.5	3.4
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	42.18 kW	35.59 kW
COP Tj = -7°C	3.24	2.42
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COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.71	1.83
WTOL	65 °C	65 °C
Poff	80 W	80 W
PTO	350 W	350 W
PSB	80 W	80 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.4 kW	0.2 kW
Annual energy consumption Qhe	22032 kWh	24290 kWh

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Sound power level outdoor	86 dB(A)	86 dB(A)

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WTOL	65 °C	65 °C
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Supplementary Heater: PSUP	2.78 kW	34.00 kW
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	Low temperature	Medium temperature
Sound power level outdoor	86 dB(A)	86 dB(A)

EN 14825 | Warmer Climate

	Low temperature	Medium temperature
ηs	237 %	161 %
Prated	48 kW	40 kW
SCOP	6	4.12
Tbiv	7 °C	7 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	47.76 kW	39.82 kW
COP Tj = +2°C	3.23	2.01
Cdh Tj = +2 °C	0.9	0.9
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Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	47.76 kW	39.82 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.23	2.01
WTOL	65 °C	65 °C
Poff	80 W	80 W
PTO	350 W	350 W
PSB	80 W	80 W

PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.24 kW	0.18 kW
Annual energy consumption Qhe	10683 kWh	12970 kWh