

Subtype Acond Grandis-R

Certificate Holder	Acond a.s.
Address	Štěrboholská 1434/102a
ZIP	102 00
City	Hostivař, Praha
Country	CZ
Certification Body	SZU - Strojirenský zkusební ústav (Engineering Test Institute, Public Enterprise)
Subtype title	Acond Grandis-R
Registration number	037-0103-22
Heat Pump Type	Outdoor Air/Water
Refrigerant	R290
Mass of Refrigerant	1.32 kg
Certification Date	07.12.2022
Testing basis	HP Keymark scheme rules rev. no. 10
Testing laboratory	SZU Brno, CZ

Model Acond Grandis-R

Model name	Acond Grandis-R
Application	Heating (medium temp)
Units	Indoor, Outdoor
Climate zone (for heating)	n/a
Reversibility	Yes
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

General data

Power supply	3x400V 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	6.98 kW	6.94 kW
El input	1.26 kW	2.05 kW
COP	5.52	3.38

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	0 dB(A)	0 dB(A)
Sound power level outdoor	0 dB(A)	48 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
η_s	220 %	165 %
Prated	10.19 kW	9.97 kW
SCOP	5.58	4.21
Tbiv	-10 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	8.97 kW	8.80 kW
COP Tj = -7°C	3.57	2.67
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	5.58 kW	5.37 kW
COP Tj = +2°C	5.42	4.10
Cdh Tj = +2 °C	0.900	0.900

Pdh Tj = +7°C	4.03 kW	3.82 kW
COP Tj = +7°C	7.26	5.39
Cdh Tj = +7 °C	0.974	0.980
Pdh Tj = 12°C	4.63 kW	4.46 kW
COP Tj = 12°C	9.00	6.81
Cdh Tj = +12 °C	0.972	0.978
Pdh Tj = Tbiv	10.19 kW	9.97 kW
COP Tj = Tbiv	3.09	2.35
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	10.19 kW	9.97 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.09	2.35
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	75 °C	75 °C
Poff	15 W	15 W
PTO	14 W	14 W
PSB	15 W	15 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	n/a	n/a
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	3770 kWh	4896 kWh

Model Acond Grandis-R SP

Model name	Acond Grandis-R SP
Application	Heating (medium temp)
Units	Indoor, Outdoor
Climate zone (for heating)	n/a
Reversibility	Yes
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	6.98 kW	6.94 kW
El input	1.26 kW	2.05 kW
COP	5.52	3.38

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	0 dB(A)	0 dB(A)
Sound power level outdoor	0 dB(A)	48 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
η_s	220 %	165 %
Prated	10.19 kW	9.97 kW
SCOP	5.58	4.21
Tbiv	-10 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	8.97 kW	8.80 kW
COP Tj = -7°C	3.57	2.67
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	5.58 kW	5.37 kW
COP Tj = +2°C	5.42	4.10
Cdh Tj = +2 °C	0.900	0.900

Pdh Tj = +7°C	4.03 kW	3.82 kW
COP Tj = +7°C	7.26	5.39
Cdh Tj = +7 °C	0.974	0.980
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Pdh Tj = Tbiv	10.19 kW	9.97 kW
COP Tj = Tbiv	3.09	2.35
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	10.19 kW	9.97 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.09	2.35
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	75 °C	75 °C
Poff	15 W	15 W
PTO	14 W	14 W
PSB	15 W	15 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	n/a	n/a
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	3770 kWh	4896 kWh

Model Acond Grandis-PR

Model name	Acond Grandis-PR
Application	Heating (medium temp)
Units	Indoor, Outdoor
Climate zone (for heating)	n/a
Reversibility	Yes
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

General data

Power supply	3x400V 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	7.80 kW	8.10 kW
El input	1.42 kW	2.52 kW
COP	5.51	3.22

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	0 dB(A)	0 dB(A)
Sound power level outdoor	0 dB(A)	48 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
η_s	193 %	158 %
Prated	11.79 kW	12.13 kW
SCOP	4.89	4.03
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	10.43 kW	10.73 kW
COP Tj = -7°C	3.11	2.55
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	6.18 kW	6.52 kW
COP Tj = +2°C	4.43	3.81
Cdh Tj = +2 °C	0.900	0.900

Pdh Tj = +7°C	4.08 kW	4.17 kW
COP Tj = +7°C	7.31	5.39
Cdh Tj = +7 °C	0.900	0.980
Pdh Tj = 12°C	4.64 kW	4.46 kW
COP Tj = 12°C	9.00	6.81
Cdh Tj = +12 °C	0.971	0.977
Pdh Tj = Tbiv	10.43 kW	10.73 kW
COP Tj = Tbiv	3.11	2.55
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	10.41 kW	10.94 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.51	1.98
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	75 °C	75 °C
Poff	15 W	15 W
PTO	14 W	14 W
PSB	15 W	15 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.38 kW	1.19 kW
Annual energy consumption Qhe	4979 kWh	4979 kWh

Model Acond Grandis-PR SP

Model name	Acond Grandis-PR SP
Application	Heating (medium temp)
Units	Indoor, Outdoor
Climate zone (for heating)	n/a
Reversibility	Yes
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

General data

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

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Cdh Tj = +2 °C	0.900	0.900

Pdh Tj = +7°C	4.08 kW	4.17 kW
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Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	10.41 kW	10.94 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.51	1.98
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	75 °C	75 °C
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PSB	15 W	15 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.38 kW	1.19 kW
Annual energy consumption Qhe	4979 kWh	4979 kWh