

Subtype Acond Grandis-L	
Certificate Holder	Acond a.s.
Address	Štěrboholská 1434/102a
ZIP	102 00
City	Hostivař, Praha
Country	CZ
Certification Body	SZU - Strojirensky zkusebni ustav (Engineering Test Institute, Public Enterprise)
Subtype title	Acond Grandis-L
Registration number	037-0154-24
Heat Pump Type	Outdoor Air/Water
Refrigerant	R290
Mass of Refrigerant	2.6 kg
Certification Date	31.01.2024
Testing basis	HP Keymark scheme rules rev. no. 12

Model Acond Grandis-L16

Model name	Acond Grandis-L16
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	11.41 kW	10.20 kW
El input	2.22 kW	3.22 kW
COP	5.14	3.17

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	217 %	158 %
Prated	15.50 kW	16.00 kW
SCOP	5.49	4.03
Tbiv	-10 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	13.71 kW	14.49 kW
COP Tj = -7°C	3.34	2.52
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	8.35 kW	8.62 kW
COP Tj = +2°C	5.31	3.81
Cdh Tj = +2 °C	0.900	0.900

Pdh Tj = +7°C	6.03 kW	5.54 kW
COP Tj = +7°C	7.35	5.33
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	7.12 kW	7.04 kW
COP Tj = 12°C	9.57	7.96
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	15.50 kW	16.00 kW
COP Tj = Tbiv	2.74	2.10
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	15.50 kW	16.00 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.74	2.10
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	75 °C	75 °C
Poff	12 W	12 W
PTO	13 W	13 W
PSB	12 W	12 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	5835 kWh	8201 kWh

Model Acond Grandis-L18

Model name	Acond Grandis-L18
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	13.15 kW	11.77 kW
El input	2.55 kW	3.67 kW
COP	5.16	3.21

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)	50 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
η_s	200 %	158 %
Prated	18.80 kW	18.00 kW
SCOP	5.07	4.02
Tbiv	-10 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	16.70 kW	15.92 kW
COP Tj = -7°C	3.22	2.49
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	10.12 kW	9.69 kW
COP Tj = +2°C	4.59	3.79
Cdh Tj = +2 °C	0.900	0.900

Pdh Tj = +7°C	6.51 kW	6.23 kW
COP Tj = +7°C	7.38	5.35
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	7.13 kW	7.05 kW
COP Tj = 12°C	9.58	7.97
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	18.80 kW	18.00 kW
COP Tj = Tbiv	2.71	2.08
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	18.80 kW	18.00 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.71	2.08
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	75 °C	75 °C
Poff	12 W	12 W
PTO	13 W	13 W
PSB	12 W	12 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	7650 kWh	9259 kWh

Model Acond Grandis-L21

Model name	Acond Grandis-L21
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	16.69 kW	14.98 kW
El input	3.24 kW	4.57 kW
COP	5.15	3.28

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)	53 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
η_s	195 %	142 %
Prated	21.00 kW	22.00 kW
SCOP	4.95	3.62
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	18.50 kW	19.42 kW
COP Tj = -7°C	2.74	2.24
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	10.50 kW	11.85 kW
COP Tj = +2°C	4.60	3.22
Cdh Tj = +2 °C	0.900	0.900

Pdh Tj = +7°C	7.38 kW	7.62 kW
COP Tj = +7°C	7.59	5.45
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	7.14 kW	7.05 kW
COP Tj = 12°C	9.60	7.99
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	18.50 kW	19.42 kW
COP Tj = Tbiv	2.74	2.24
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	18.50 kW	19.42 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.74	2.24
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	75 °C	75 °C
Poff	12 W	12 W
PTO	13 W	13 W
PSB	12 W	12 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	2.50 kW	2.58 kW
Annual energy consumption Qhe	8729 kWh	12543 kWh