Subtype Acond Aconomis R

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 Aconomis R
Registration number	037-0185-24
Heat Pump Type	Outdoor Air/Water
Refrigerant	R290
Mass of Refrigerant	1.7 kg
Certification Date	03.12.2024
Testing basis	HP Keymark certification scheme rules rev. no.14
Testing laboratory	SZU Brno, CZ

Model Acond Aconomis R	
Model name	Acond Aconomis R
Application	Heating (medium temp)
Units	Indoor, Outdoor
Climate zone (for heating)	Colder, Warmer
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	8.55 kW	7.76 kW
El input	1.67 kW	2.39 kW
COP	5.12	3.24

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)	57 dB(A)

EN 14825 | Average Climate		
	Low temperature	Medium temperature
ηs	194 %	152 %
Prated	15.40 kW	14.15 kW
SCOP	4.92	3.86
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	13.60 kW	12.50 kW
COP Tj = -7°C	3.00	2.45
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	7.68 kW	7.34 kW
COP Tj = +2°C	4.64	3.62
Cdh Tj = +2 °C	0.900	0.900

Pdh Tj = +7°C	5.25 kW	4.78 kW
COP Tj = +7°C	6.92	5.36
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	4.45 kW	4.34 kW
COP Tj = 12°C	8.74	6.60
Cdh Tj = +12 °C	0.982	0.986
Pdh Tj = Tbiv	13.60 kW	12.50 kW
COP Tj = Tbiv	3.00	2.45
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	12.68 kW	11.34 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.83	2.22
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	75 °C	75 °C
Poff	9 W	9 W
PTO	9 W	9 W
PSB	9 W	9 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	2.72 kW	2.76 kW
Annual energy consumption Qhe	6463 kWh	7556 kWh

EN 12102-1 | Colder Climate

	Low temperature	Medium temperature
Sound power level indoor	0 dB(A)	0 dB(A)
Sound power level outdoor	0 dB(A)	57 dB(A)

EN 14825 | Colder Climate

	Low temperature	Medium temperature
ηs	151 %	120 %
Prated	21.80 kW	21.00 kW
SCOP	3.85	3.07
Tbiv	-7 °C	-7 °C
TOL	-22 °C	-22 °C
Pdh Tj = -7°C	13.17 kW	12.68 kW
COP Tj = -7°C	3.25	2.46
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	7.74 kW	7.54 kW
COP Tj = +2°C	5.21	3.96
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	5.06 kW	5.01 kW
COP Tj = +7°C	7.52	6.00
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	4.45 kW	4.39 kW
COP Tj = 12°C	8.62	6.94

Cdh Tj = +12 °C	0.982	0.985
Pdh Tj = Tbiv	13.17 kW	12.68 kW
COP Tj = Tbiv	3.25	2.46
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.70 kW	8.31 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.54	1.78
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	75 °C	75 °C
Poff	9 W	9 W
PTO	9 W	9 W
PSB	9 W	9 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	13.10 kW	12.69 kW
Annual energy consumption Qhe	13918 kWh	16815 kWh
Pdh Tj = -15°C (if TOL	10.53	10.15
COP Tj = -15°C (if TOL	3.03	2.29
Cdh Tj = -15 °C	0.900	0.900

EN 12102-1 | Warmer Climate

	Low temperature	Medium temperature
Sound power level indoor	0 dB(A)	0 dB(A)
Sound power level outdoor	0 dB(A)	57 dB(A)

EN 14825 | Warmer Climate

	Low temperature	Medium temperature
ηs	251 %	169 %
Prated	11.40 kW	10.80 kW
SCOP	6.34	4.30
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	11.35 kW	10.80 kW
COP Tj = +2°C	3.55	2.43
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	7.23 kW	6.97 kW
COP Tj = +7°C	5.23	3.23
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	4.41 kW	4.29 kW
COP Tj = 12°C	8.35	6.21
Cdh Tj = +12 °C	0.982	0.987
Pdh Tj = Tbiv	11.35 kW	10.80 kW
COP Tj = Tbiv	3.55	2.43
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	11.35 kW	10.80 kW

COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.55	2.43
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	75 °C	75 °C
Poff	9 W	9 W
PTO	9 W	9 W
PSB	9 W	9 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	2394 kWh	3355 kWh

Model Acond Aconomis R-SP	
Model name	Acond Aconomis R-SP
Application	Heating (medium temp)
Units	Indoor, Outdoor
Climate zone (for heating)	Colder, Warmer
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	8.55 kW	7.76 kW
El input	1.67 kW	2.39 kW
COP	5.12	3.24

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COP Tj = +2°C	4.64	3.62
Cdh Tj = +2 °C	0.900	0.900

Pdh Tj = +7°C	5.25 kW	4.78 kW
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Annual energy consumption Qhe	6463 kWh	7556 kWh

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Cdh Tj = +7 °C	0.900	0.900
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Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	75 °C	75 °C
Poff	9 W	9 W
PTO	9 W	9 W
PSB	9 W	9 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	2394 kWh	3355 kWh