Subtype Acond Aconomis N	
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 N
Registration number	037-0184-24
Heat Pump Type	Outdoor Air/Water
Refrigerant	R290
Mass of Refrigerant	1.1 kg
Certification Date	08.07.2024
Testing basis	HP Keymark certification scheme rules rev. no.14
Testing laboratory	SZU Brno, CZ

Model Acond Aconomis N	
Model name	Acond Aconomis N
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	4.76 kW	4.10 kW
El input	0.96 kW	1.33 kW
COP	4.95	3.08

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)	54 dB(A)

EN 14825 | Average Climate		
	Low temperature	Medium temperature
ηs	188 %	150 %
Prated	7.65 kW	7.50 kW
SCOP	4.77	3.82
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	6.78 kW	6.58 kW
COP Tj = -7°C	3.05	2.29
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	4.05 kW	4.00 kW
COP Tj = +2°C	4.64	3.81
Cdh Tj = +2 °C	0.900	0.900

Pdh Tj = +7°C	2.65 kW	2.57 kW
COP Tj = +7°C	6.37	4.98
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	2.41 kW	2.38 kW
COP Tj = 12°C	7.44	5.98
Cdh Tj = +12 °C	0.954	0.962
Pdh Tj = Tbiv	6.78 kW	6.58 kW
COP Tj = Tbiv	3.05	2.29
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.12 kW	6.03 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.91	2.12
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	15 W	15 W
PSB	15 W	15 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.53 kW	1.47 kW
Annual energy consumption Qhe	3320 kWh	4025 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)	54 dB(A)

EN 14825 | Colder Climate

	Low temperature	Medium temperature
ηs	152 %	121 %
Prated	10.50 kW	11.40 kW
SCOP	3.87	3.10
Tbiv	-7 °C	-7 °C
TOL	-22 °C	-22 °C
Pdh Tj = -7°C	6.37 kW	6.88 kW
COP Tj = -7°C	3.33	2.57
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	3.88 kW	4.19 kW
COP Tj = +2°C	5.13	4.12
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	2.49 kW	2.69 kW
COP Tj = +7°C	7.06	5.47
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	2.41 kW	2.36 kW
COP Tj = 12°C	7.44	6.40

Cdh Tj = +12 °C	0.954	0.959
Pdh Tj = Tbiv	6.37 kW	6.88 kW
COP Tj = Tbiv	3.33	2.57
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	4.81 kW	4.42 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.52	1.92
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	15 W	15 W
PSB	15 W	15 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	5.69 kW	6.98 kW
Annual energy consumption Qhe	6707 kWh	9026 kWh
Pdh Tj = -15°C (if TOL	5.68	5.23
COP Tj = -15°C (if TOL	2.77	2.17
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)	54 dB(A)

EN 14825 | Warmer Climate

	Low temperature	Medium temperature
ηs	240 %	170 %
Prated	6.50 kW	6.10 kW
SCOP	6.06	4.33
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	6.51 kW	6.05 kW
COP Tj = +2°C	3.48	2.47
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	4.19 kW	3.89 kW
COP Tj = +7°C	5.46	3.88
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	2.41 kW	2.33 kW
COP Tj = 12°C	7.44	5.30
Cdh Tj = +12 °C	0.954	0.966
Pdh Tj = Tbiv	6.51 kW	6.05 kW
COP Tj = Tbiv	3.48	2.47
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.51 kW	6.05 kW

COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.48	2.47
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	15 W	15 W
PSB	15 W	15 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	1434 kWh	1869 kWh