

Acond Aconomis

Heat pump air - water

Technical data

Compact monobloc heat pump. The pump is equipped with a continuously variable rotary compressor using environmentally friendly natural refrigerant. The outdoor unit is connected to the indoor part of the heat pump. The indoor unit consists of an electrical switchboard. A room unit located in the reference room (thermostat) may be included.

Performance parameters

Model	Acond Aconomis S	Acond Aconomis N	Acond Aconomis R
Prated [kW] *)	4	7,5	-
Seasonal energy efficiency [%]**)**))	156,9	149,5	-
Heating capacity A7/W35 EN 14 511 [kW]	2,74	4,758	-
COP A7/W35 EN 14 511 [1]	5,08	4,952	-
Heating capacity A7/W55 EN 14 511 [kW]	2,35	4,095	-
COP A7/W55 EN 14 511 [1]	3,18	3,075	-
SCOP W35 [1]*)	4,89	4,75	-
SCOP W55 [1]*)	4,00	3,81	-
Energy class - underfloor heated *)	A+++	A+++	-
Energy class - radiators *)	A+++	A++	-
Cooling	YES	YES	YES

*) EN 14 825

**) Equithermal regulation

***) The DHW heating and swimming pool, if fitted, must be included in the building losses (at -15°C). For the stated maximum losses of each model, it is necessary that the bivalent controlled source has a minimum output for model S - 5kW, for model N - 9kW.

Technical data

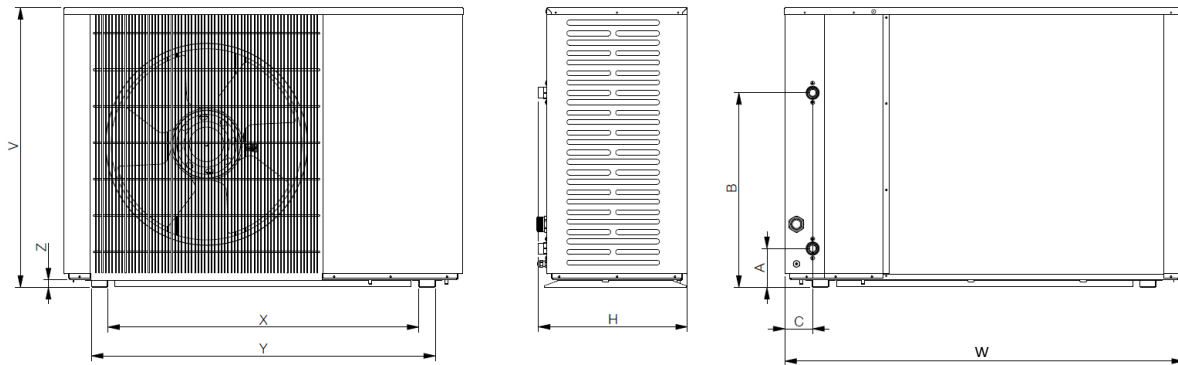
Model	Acond Aconomis S	Acond Aconomis N	Acond Aconomis R
Compressor	Double rotary	Double rotary	Double rotary
Voltage code; protection*)	1~N/PE/230V/50Hz; B16A	1~N/PE/230V/50Hz; B16A	3~N/PE/400V/50Hz; B16A
Maximum current [A]	9	13	15
Starting current current [A]	<5	<5	<5
Degree of protection of outdoor unit	IP24	IP24	IP24
Degree of protection of the indoor unit	IP20	IP20	IP20
Dimensions (HxWxD) [mm]	1060 x 650 x 450	1210 x 850 x 450	-
Pump weight [kg]	85	105	-
Prated [kW] **)	4	7,5	-
Maximum heat loss of the building [kW] ***)	-	-	-
Refrigerant	R290	R290	R290
Refrigerant weight [kg]	0,29	0,45	-
Maximum permissible pressure - high pressure section [bar]	30	30	30
Maximum allowable pressure - low pressure section [bar]	30	30	30
Acoustic performance at A7/W55 according to EN 12 102 [dB(A)]	53	54	-
Air temperature limits [°C]	-25 to 38	-25 to 38	-25 to 38
Water temperature limits [°C]	20 to 75	20 to 75	20 to 75
Minimum water flow [m ³ /h]	0,22	0,32	-
Maximum water flow [m ³ /h]	0,95	1,5	-

*) follow local regulations

**) medium-temperature applications (A-10/W55) according to EN 14 825

***) In the losses of the building (at -15°C) it is necessary to include the heating of DHW, swimming pool if they are installed. For the stated maximum losses of each model, it is necessary that the bivalent controlled source has a minimum power for model S - 5kW, for model N - 9kW.

Dimensional drawing



Type	Acond Aconomis S	Acond Aconomis N	Acond Aconomis R
V [mm]	650	850	-
W [mm]	1060	1210	-
H [mm]	450	450	-
A [mm]	130	118	-
B [mm]	409	589	-
C [mm]	142	84	-
X [mm]	790	940	-
Y [mm]	890	1040	-
Z [mm]	23	23	-
T - hot water	G1" DIN ISO 228	G1" DIN ISO 228	G1" DIN ISO 228
S - cold water	G1" DIN ISO 228	G1" DIN ISO 228	G1" DIN ISO 228