PRODUCT CATALOGUE

Table of Contents

OUTDOOR UNITS

PRO-N 8
PRO-R 10
GRANDIS-N 13
GRANDIS-R 15
GRANDIS-L 17

INDOOR UNITS

ELECTRICAL SWITCHBOARD..... 21
HYDROMODULE..... 22
ROOM CONTROLLER/THERMOSTAT 23
BOILER TANK S..... 24
BOILER TANK B..... 25
BUFFER VESSEL..... 26
HYDROBOX..... 27
EL. HEATER KIT..... 28
CIRCULATION PUMP..... 29
THREE-WAY VALVE..... 30

ACOND
heat pumps

ACOND HAS BEEN WITH YOU FOR 25 YEARS!

Acond is a market leader in heat pumps, offering innovative and energy efficient solutions for heating and cooling homes, commercial buildings and industrial facilities.

With more than 25 years of experience in the renewable energy industry, Acond specialises in the development, manufacture and distribution of heat pumps with high efficiency and low operating costs.

R290

Environmentally friendly and energy efficient, this natural gas offers optimum performance and minimises costs. Choose propane R290 for gentle heating and environmental protection. Your journey to economical and environmentally friendly heating starts here.

CERTIFICATES

HEAT PUMP AND PHOTOVOLTAICS

Photovoltaics intergration – PV + HP Connection can be controlled with smarthome via modbus TCP/IP or RTU. Other connection possibilities such as Goodwe, Solax or RTC inverters.

SERVICE

Personal approach

- Trained service technicians
- Remote and online management

Remote support

- Online automatic monitoring
- Using AI for a higher level of protection for your CH
- Possibility of remote assistance of a service technician for setting or adjustments in the heat pump settings
- Remote fault diagnosis
- Possibility of remote SW and FW update

Online control

- Mobile applications
- PC web interface
- Online access to control

MOBILE APPLICATIONS

Download our app and control your ACOND heat pump with your mobile phone from anywhere in the world.

OUTDOOR UNITS

ACOND® PRO.N

Benefits

- Scroll compresor
- Acoustic pressure at 6 m — 24,9 dB (A)
- Heating factor — 4,9
- Energy efficiency EN 14 825 — A+++
- Maximum pump power — 9 kW

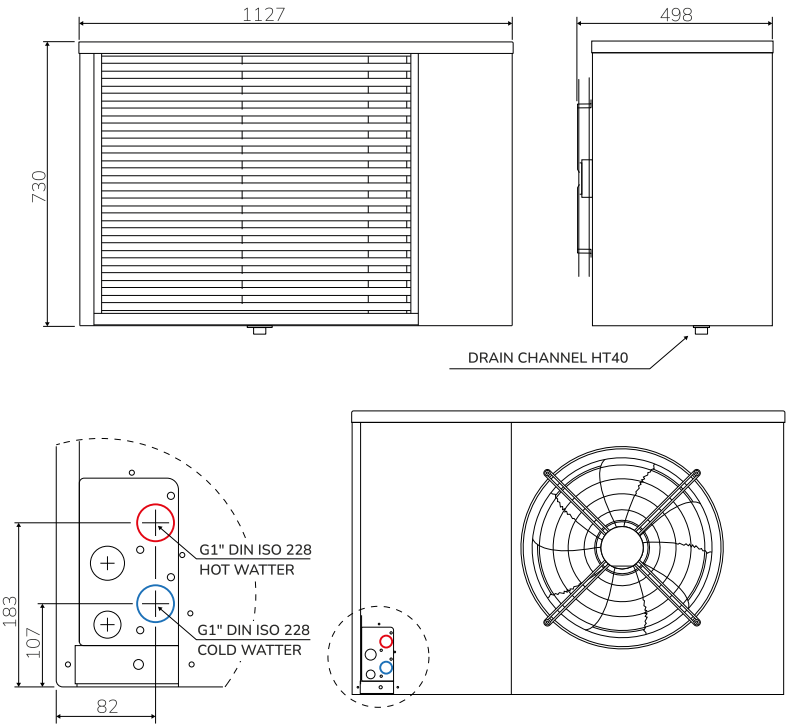
Technical data

Heating power min – max [kW]	1,5 – 9
Maximum heat loss of the building [kW]	8
COP A7/W35 EN 14 511 [kW/kW]	4,9
COP A2/W35 EN 14 511 [kW/kW]	4,31
COP A-7/W52 EN 14 825 [kW/kW]	2,38
Prated W35 EN 14 825 [kW]	5
SCOP W35 EN 14 825 [kW/kW]	4,74
Acoustic performance EN 12 102-1 [dB(A)]	48,4
Acoustic pressure at 6 m [dB(A)]	24,9
Maximum temperature of compressor outlet water [°C]	70

Accessories

Heat pump stand PRO N

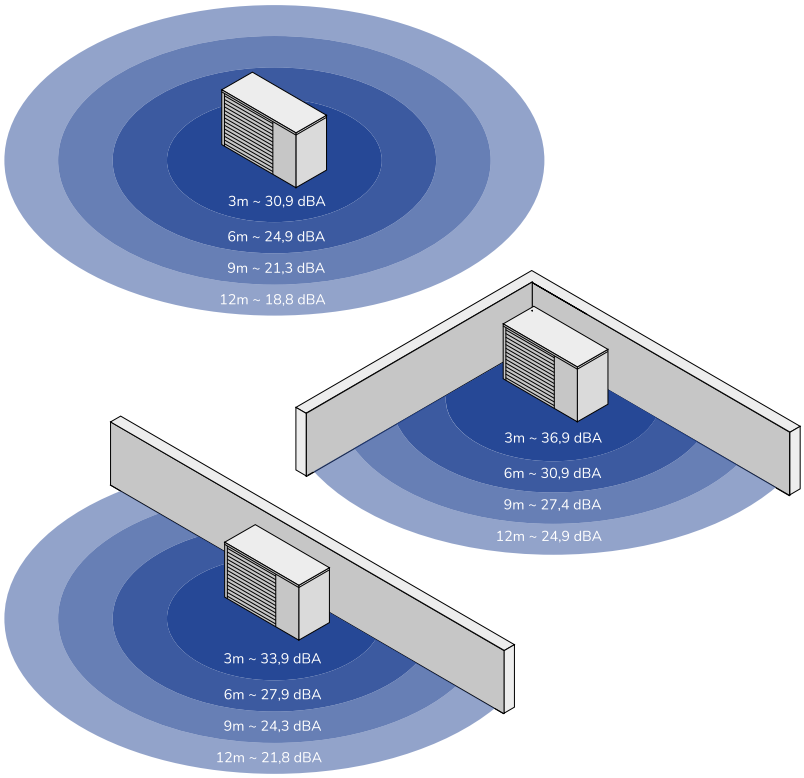
Technical parameters PRO-N



Acoustic parameters

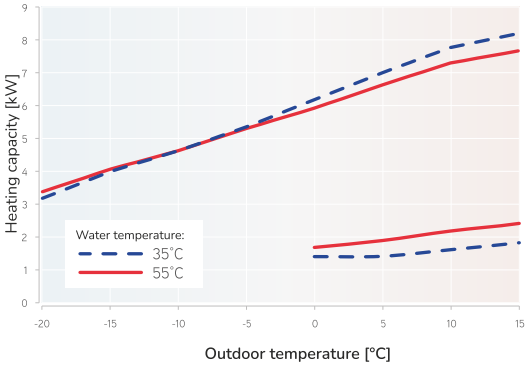
Acond PRO heat pumps are installed outdoors or in mechanical rooms complying with EN 378-3. Many factors affect sound pressure levels, for example if the heat pump is placed next to a wall or in a corner, the structure of the wall, or at what altitude the heat pump is located. Therefore, the sound pressure values given are only indicative.The sound power level was measured at condition A7/W55 according to EN 12 102.

Model	ACOND PRO-N
Acoustic performance L_{WA} [dB(A)]	48,4



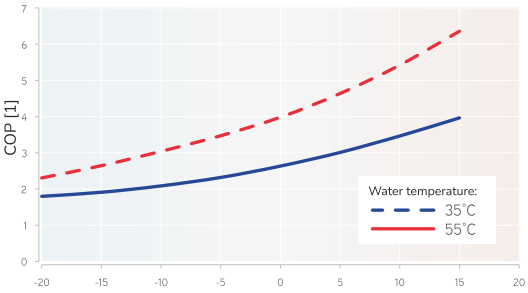
Performance characteristics

Maximum and minimum heating capacity depending on the outside temperature and heating water temperature.
The following values are measured during continuous operation.



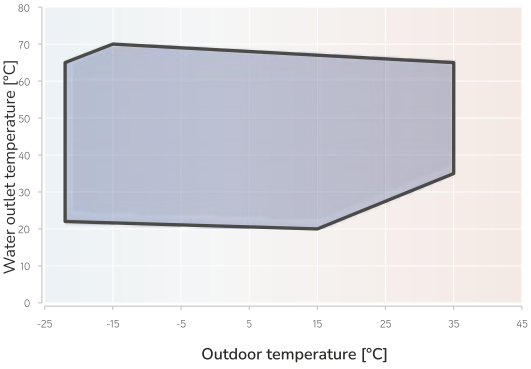
ACOND PRO-N								
Outdoor temperature [°C]	-20	-15	-10	-5	0	5	10	15
Maximum heating capacity at 35 °C [kW]	3,2	4	4,7	5,4	6,6	7	7,8	8,2
Maximum heating capacity at 55 °C [kW]	3,4	4,1	4,7	5,3	6	6,7	7,3	7,7

Maximum heating factor depending on outdoor temperature and heating water temperature.
The following values are measured during continuous operation.



ACOND PRO-N								
Outdoor temperature [°C]	-20	-15	-10	-5	0	5	10	15
Maximum heating capacity at 35 °C [kW]	2,3	2,6	3	3,5	4	4,6	5,4	6,4
Maximum heating capacity at 55 °C [kW]	1,8	1,9	2,1	2,3	2,6	3	3,5	4

Working area



ACOND PRO.R

Benefits

- Scroll compresor
- Acoustic pressure at 6 m — 25,8 dB (A)
- Heating factor — 5,22
- Energy efficiency EN 14 825 — A+++
- Maximum pump power — 18 kW

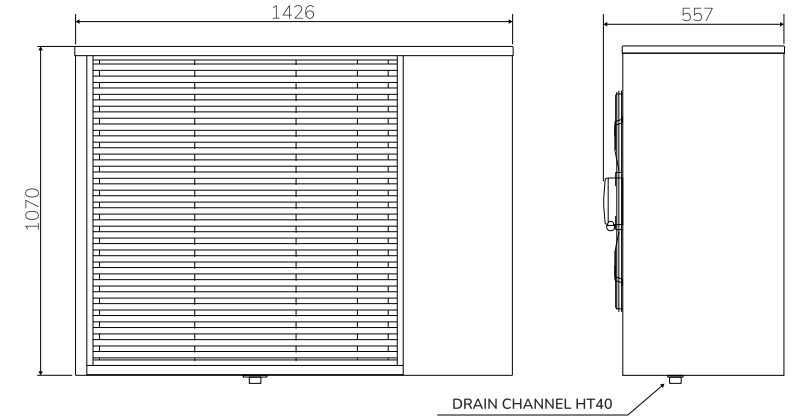
Technical data

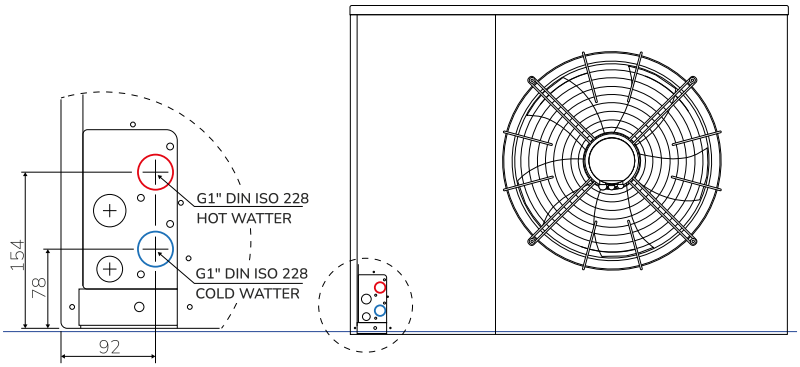
Heating power min – max [kW]	3 – 18
Maximum heat loss of the building [kW]	15
COP A7/W35 EN 14 511 [kW/kW]	5,22
COP A2/W35 EN 14 511 [kW/kW]	4,5
COP A-7/W52 EN 14 825 [kW/kW]	2,5
Prated W35 EN 14 825 [kW]	11
SCOP W35 EN 14 825 [kW/kW]	5,1
Acoustic performance EN 12 102-1 [dB(A)]	49,3
Acoustic pressure at 6 m [dB(A)]	25,8
Maximum temperature of compressor outlet water [°C]	70

Accessories

Heat pump stand PRO R

Technical parameters PRO-R

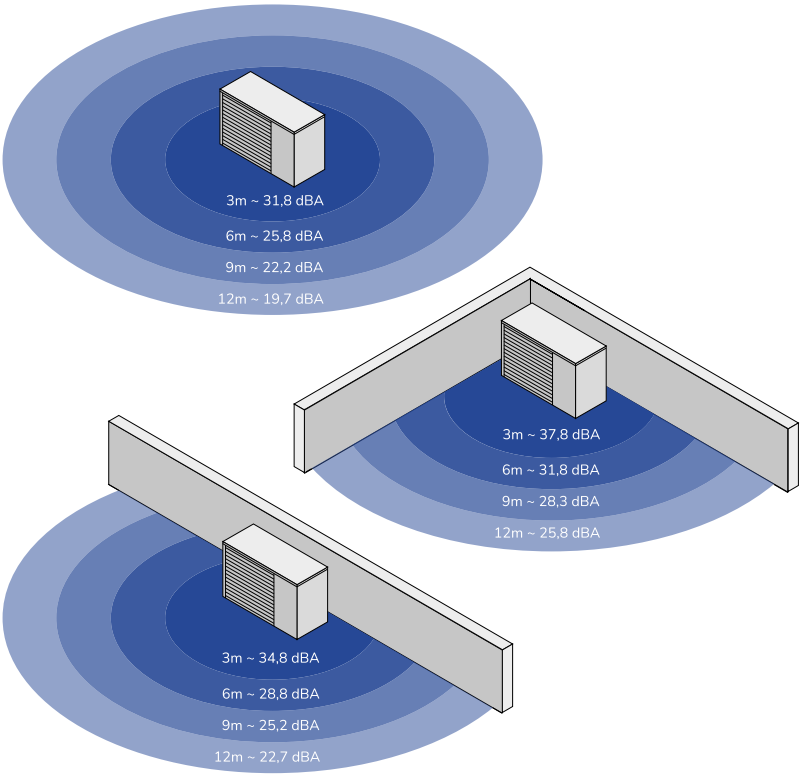




Acoustic parameters

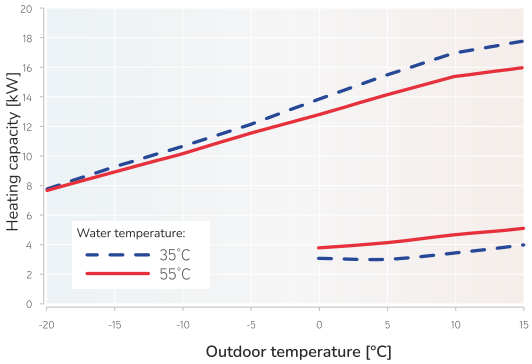
Acond PRO heat pumps are installed outdoors or in mechanical rooms complying with EN 378-3. Many factors affect sound pressure levels, for example if the heat pump is placed next to a wall or in a corner, the structure of the wall, or at what altitude the heat pump is located. Therefore, the sound pressure values given are only indicative.The sound power level was measured at condition A7/W55 according to EN 12 102.

Model	ACOND PRO-R
Acoustic performance L_{WA} [dB(A)]	49,3



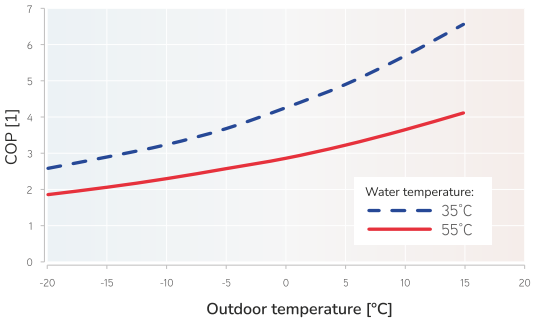
Performance characteristics

Maximum and minimum heating capacity depending on the outside temperature and heating water temperature.
The following values are measured during continuous operation.



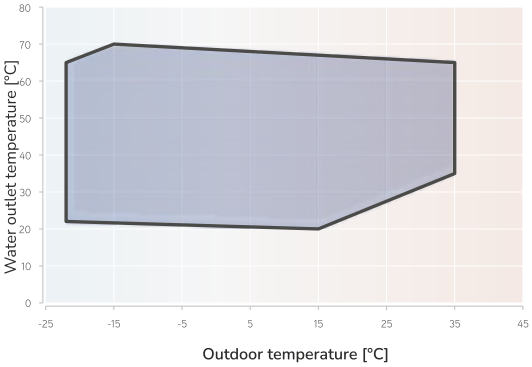
ACOND PRO-R								
Outdoor temperature [°C]	-20	-15	-10	-5	0	5	10	15
Maximum heating capacity at 35 °C [kW]	7,7	9,2	10,6	12,1	13,8	15,5	17	17,8
Maximum heating capacity at 55 °C [kW]	7,6	8,9	10,1	11,5	12,8	14,1	15,4	16

Maximum heating factor depending on outdoor temperature and heating water temperature.
The following values are measured during continuous operation.



ACOND PRO-R								
Outdoor temperature [°C]	-20	-15	-10	-5	0	5	10	15
Maximum heating capacity at 35 °C [kW]	2,6	2,9	3,2	3,7	4,2	4,9	5,7	6,6
Maximum heating capacity at 55 °C [kW]	1,8	2	2,3	2,5	2,8	3,2	3,6	4,1

Working area



Performance parameters

Model	PRO-N	PRO-R
Maximum heat loss of the building at -15°C - underfloor heating [kW]*	7	15
Maximum heat loss of the building at -15°C - Radiators [kW]*	7	15
Performance parameters at nominal conditions according to EN 14 511		
Heating output x COP at A7/W35 [kW x 1]	3,28 x 4,9	6,77 x 5,22
Heating output x COP at A2/W35 [kW x 1]	2,74 x 4,31	5,7 x 4,49
Heating output x COP at A7/W55 [kW x 1]	3,87 x 3,28	7,41 x 3,29
Performance parameters with equithermal control, reference water temperature 35°C according to EN 14 825		
Heating capacity x COP at A12/W27 [kW x 1]	1,81 x 6,27	4,05 x 7,11
Heating capacity x COP at A7/W27 [kW x 1]	1,63 x 5,55	3,81 x 6,33
Heating capacity x COP at A2/W30 [kW x 1]	2,54 x 4,94	5,46 x 5,03
Heating capacity x COP at A-7/W34 [kW x 1]	4,17 x 3,14	9,23 x 3,24
Equithermally controlled performance parameters, reference water temperature 55°C according to EN 14 825		
Heating capacity x COP at A12/W35 [kW x 1]	1,76 x 5,36	3,88 x 5,92
Heating capacity x COP at A7/W36 [kW x 1]	1,6 x 4,41	3,52 x 4,97
Heating capacity x COP at A2/W42 [kW x 1]	2,48 x 3,74	5,53 x 3,87
Heating capacity x COP at A-7/W52 [kW x 1]	4,08 x 2,38	9 x 2,5
Parameters for average climate, equithermal control		
P_{design} x SCOP W35 [kW x 1]	4,71 x 4,74	10,38 x 5,05
P_{design} x SCOP W55 [kW x 1]	4,61 x 3,68	10,17 x 3,93
Parameters for warmer climate, equithermal control		
P_{design} x SCOP W35 [kW x 1]	4,52 x 5,54	9,53 x 6,27
P_{design} x SCOP W55 [kW x 1]	4,41 x 4,17	9,19 x 4,79
Parameters for cooler climate, equithermal control		
P_{design} x SCOP W35 [kW x 1]	6,9 x 3,83	15,21 x 4,15
P_{design} x SCOP W55 [kW x 1]	6,8 x 3,19	14,74 x 3,36

* In addition to the building losses (at -15°C) it is necessary to include DHW heating, pool heating if fitted; standardised installation of Acond pumps with auxiliary heating rod

Energy parameters

Model			ACOND PRO-N		ACOND PRO-R	
Reference water temperature [°C]			35	55	35	55
Average climate	Heating energy class		A+++	A++	A+++	A+++
	Seasonal heating energy efficiency	%	187	144	199	155
	Annual energy consumption for heating	kWh	2053	2588	4246	5351
Warmer climate	Heating energy class		A+++	A+++	A+++	A+++
	Seasonal heating energy efficiency	%	219	164	248	189
	Annual energy consumption for heating	kWh	1089	1412	2029	2562
Cooler climate	Heating energy class		A+++	A+++	A++	A+++
	Seasonal heating energy efficiency	%	150	125	163	131
	Annual energy consumption for heating	kWh	4442	5256	9037	10815

ACOND GRANDIS.N

Benefits

Acoustic pressure at 6 m	22,6 dB (A)
Heating factor	5,54
Energy efficiency EN 14 825	A+++
Maximum pump power	8 kW

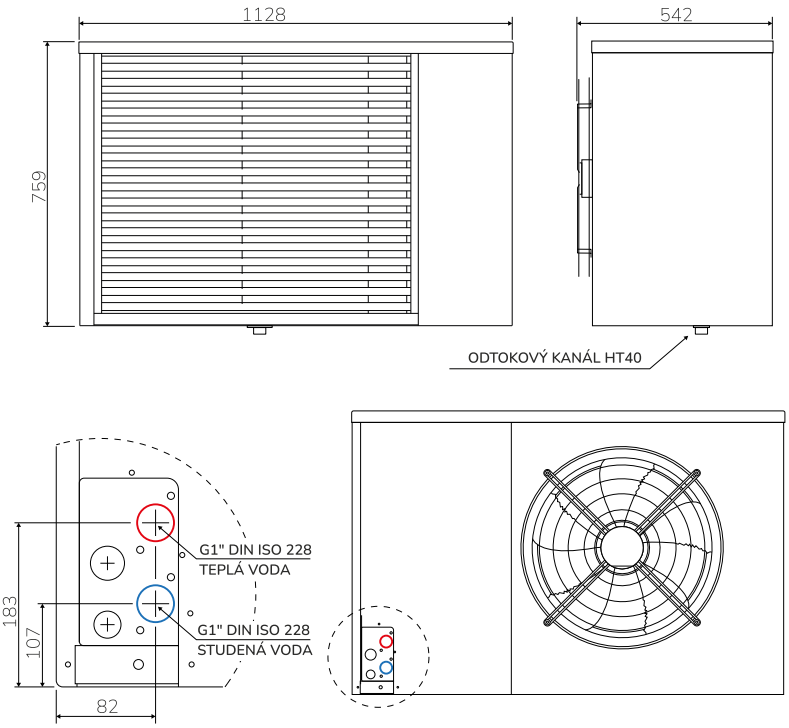
Technical data

Heating power min – max [kW]	1,7 – 8
Maximum heat loss of the building [kW]	7
COP A7/W35 EN 14 511 [kW/kW]	5,54
COP A2/W35 EN 14 511 [kW/kW]	5,25
COP A-7/W52 EN 14 825 [kW/kW]	2,38
Prated W35 EN 14 825 [kW]	4
SCOP W35 EN 14 825 [kW/kW]	4,05
Acoustic performance EN 12 102-1 [dB(A)]	46,1
Acoustic pressure at 6 m [dB(A)]	22,6
Maximum temperature of compressor outlet water [°C]	75

Accessories

Heat pump stand GRANDIS N

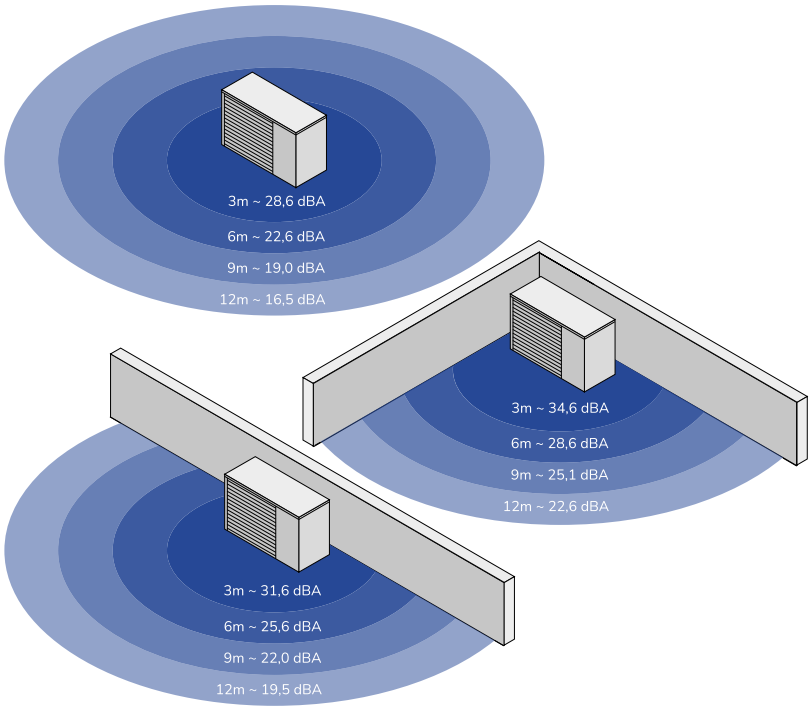
Technical parameters GRANDIS-N



Acoustic parameters

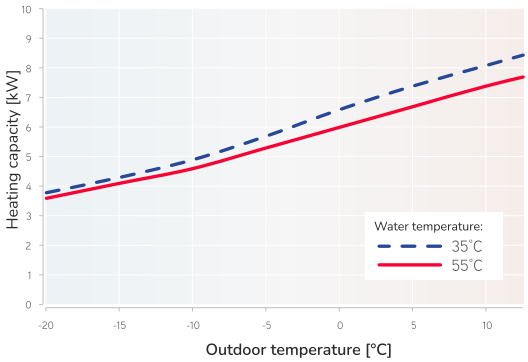
Acond Grandis heat pumps are installed in outdoor environments or in mechanical rooms complying with EN 378-3. Many factors influence sound pressure levels. For example, if the heat pump is placed next to a wall or against a wall in a corner, the structure of the wall, or at what altitude the heat pump ispump placed. Therefore, the sound pressure values given are indicative only.The sound power level was measured at partial power at condition A7/W55 according to EN 12 102.

Model	ACOND GRANDIS-N
Acoustic pressure at 3 m [dB(A)]	28,6
Acoustic pressure at 6 m [dB(A)]	22,6
Acoustic performance L_{WA} [dB(A)]	46,1



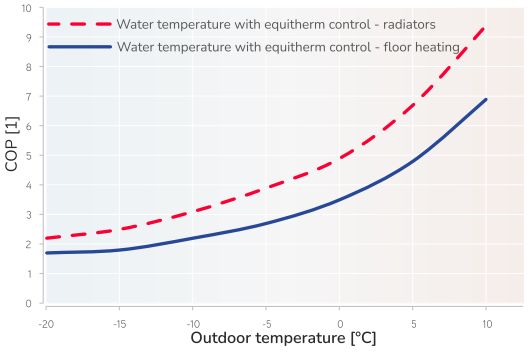
Performance characteristics

Maximum heating capacity depending on the outside temperature and heating water temperature.
The following values are measured during continuous operation.



ACOND GRANDIS-N								
Outdoor temperature [°C]	-20	-15	-10	-5	0	5	10	15
Maximum heating capacity at 35 °C [kW]	3,8	4,3	4,9	5,7	6,6	7,4	8,1	8,8
Maximum heating capacity at 55 °C [kW]	3,6	4,1	4,6	5,3	6	6,7	7,4	8

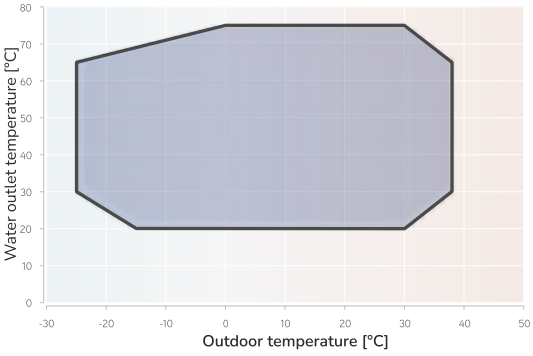
Maximum heating factor depending on outdoor temperature and heating water temperature.
The following values are measured at continuous operation and water temperature controlled by the equitherm curve.



Outdoor temperature [°C]	-20	-15	-10	-5	0	5	10
Water temperature with equitherm control - floor heating [°C]	38	37	35	33	31	28	25
Maximum COP [kW / kW]	2,2	2,5	3,1	3,9	4,9	6,7	9,4

Outdoor temperature [°C]	-20	-15	-10	-5	0	5	10
Water temperature with equitherm control - radiators [°C]	65	60	55	50	44	38	32
Maximum COP [kW / kW]	1,7	1,8	2,2	2,7	3,5	4,8	6,9

The working area is verified by the testing laboratory, meets the requirements of EN 14511-4. Output temperatures are achievable under certain part-load conditions.



ACOND GRANDIS.R

Benefits

Acoustic pressure at 6 m	24,2 dB (A)
Heating factor	5,52
Energy efficiency EN 14 825	A+++
Maximum pump power	19,6 kW

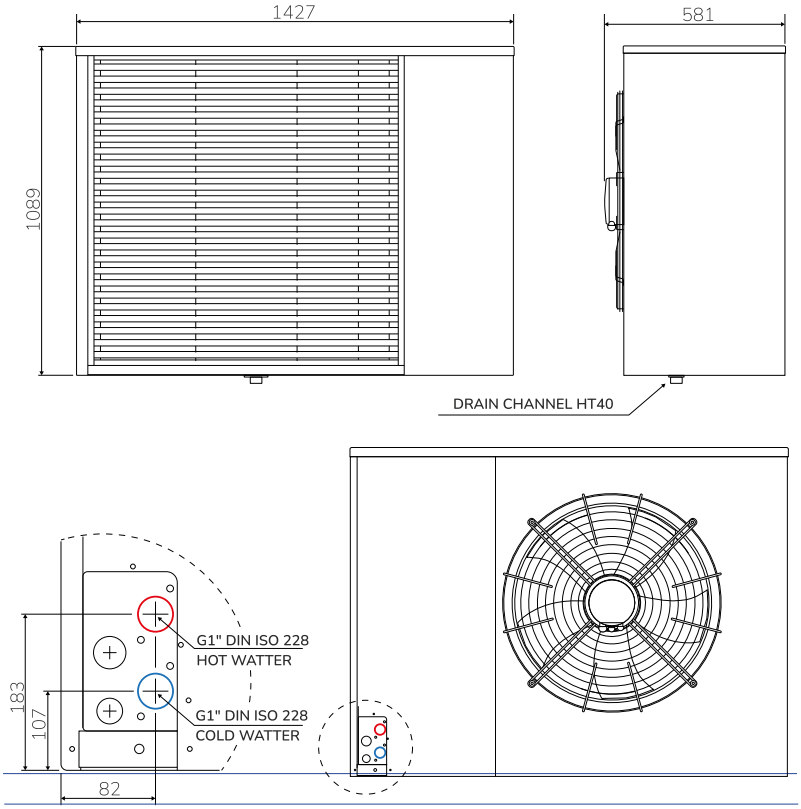
Technical data

Heating power min – max [kW]	4,4 - 19,6
Maximum heat loss of the building [kW]	15
COP A7/W35 EN 14 511 [kW/kW]	5,52
COP A2/W35 EN 14 511 [kW/kW]	5,42
COP A-7/W52 EN 14 825 [kW/kW]	2,67
Prated W35 EN 14 825 [kW]	9,97
SCOP W35 EN 14 825 [kW/kW]	4,21
Acoustic performance EN 12 102-1 [dB(A)]	47,7
Acoustic pressure at 6 m [dB(A)]	24,2
Maximum temperature of compressor outlet water [°C]	75

Accessories

Heat pump stand GRANDIS R

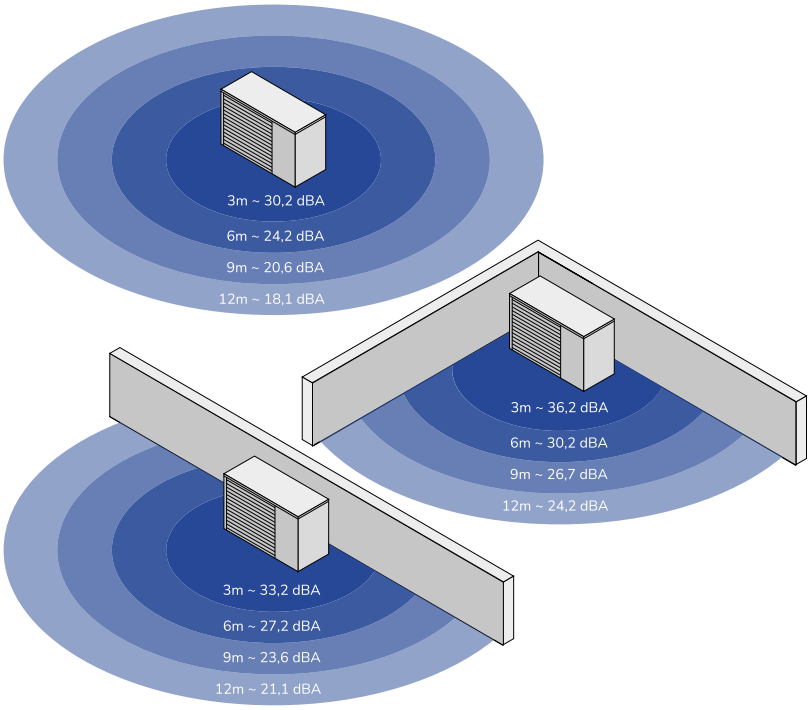
Technical parameters GRANDIS-R



Acoustic parameters

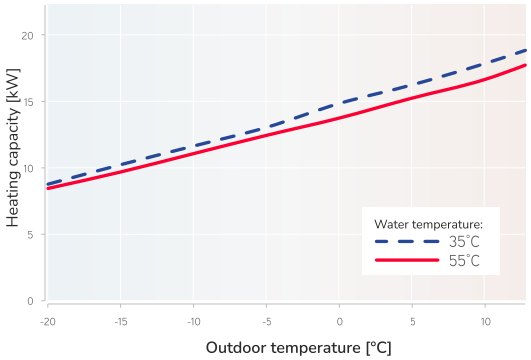
Acond Grandis heat pumps are installed in outdoor environments or in mechanical rooms complying with EN 378-3. Many factors influence sound pressure levels. For example, if the heat pump is placed next to a wall or against a wall in a corner, the structure of the wall, or at what altitude the heat pump ispump placed. Therefore, the sound pressure values given are indicative only.The sound power level was measured at partial power at condition A7/W55 according to EN 12 102.

Model	ACOND GRANDIS-R
Acoustic pressure at 3 m [dB(A)]	30,2
Acoustic pressure at 6 m [dB(A)]	24,2
Acoustic performance L_{WA} [dB(A)]	47,7



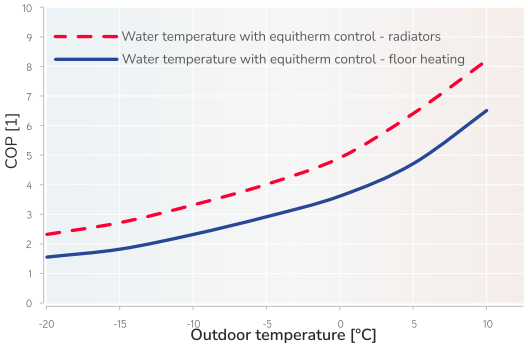
Performance characteristics

Maximum heating capacity depending on the outside temperature and heating water temperature.
The following values are measured during continuous operation.



ACOND GRANDIS-R								
Outdoor temperature [°C]	-20	-15	-10	-5	0	5	10	15
Maximum heating capacity at 35 °C [kW]	8,7	10,2	11,6	13	14,8	16,2	17,8	19,6
Maximum heating capacity at 55 °C [kW]	8,4	9,7	11	12,4	13,7	15,2	16,6	18,6

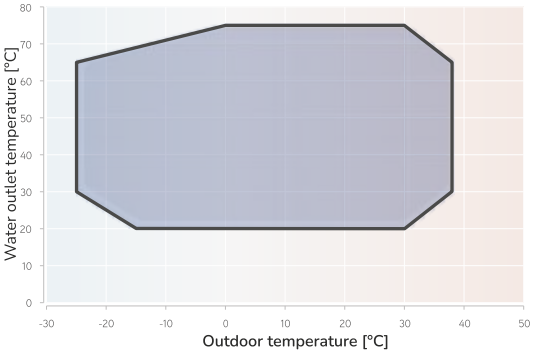
Maximum heating factor depending on outdoor temperature and heating water temperature.
The following values are measured at continuous operation and water temperature controlled by the equitherm curve.



Outdoor temperature [°C]	-20	-15	-10	-5	0	5	10
Water temperature with equitherm control - floor heating [°C]	38	37	35	33	31	28	25
Maximum COP [kW / kW]	2,3	2,7	3,3	4	4,9	6,4	8,2

Outdoor temperature [°C]	-20	-15	-10	-5	0	5	10
Water temperature with equitherm control - radiators [°C]	65	60	55	50	44	38	32
Maximum COP [kW / kW]	1,5	1,8	2,3	2,9	3,6	4,7	6,5

The working area is verified by the testing laboratory, meets the requirements of EN 14511-4. Output temperatures are achievable under certain part-load conditions.



ACOND GRANDIS.L

Benefits

Acoustic pressure at 6 m	27,5 dB (A)
Heating factor	5,15
Energy efficiency EN 14 825	A+++
Maximum pump power	29 kW

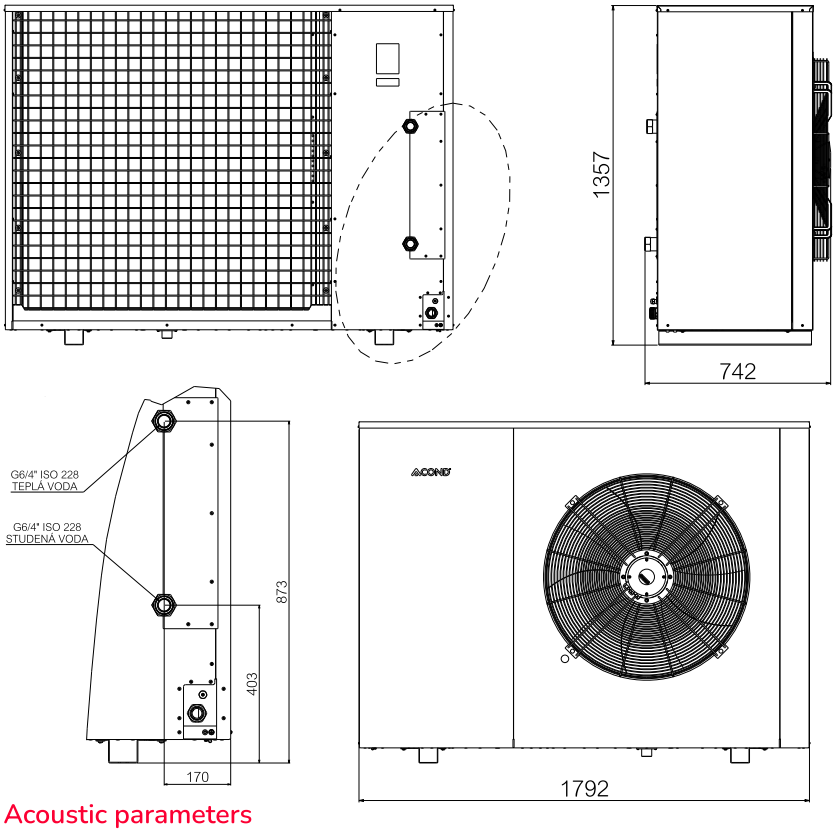
Technical data

Heating power min – max [kW]	7 - 29
Maximum heat loss of the building [kW]	28
COP A7/W35 EN 14 511 [kW/kW]	5,15
COP A2/W35 EN 14 511 [kW/kW]	3,91
COP A-7/W52 EN 14 825 [kW/kW]	2,07
Prated W35 EN 14 825 [kW]	21
SCOP W35 EN 14 825 [kW/kW]	4,75
Acoustic performance EN 12 102-1 [dB(A)]	52,5
Acoustic pressure at 6 m [dB(A)]	27,5
Maximum temperature of compressor outlet water [°C]	75

Accessories

Heat pump stand GRANDIS L

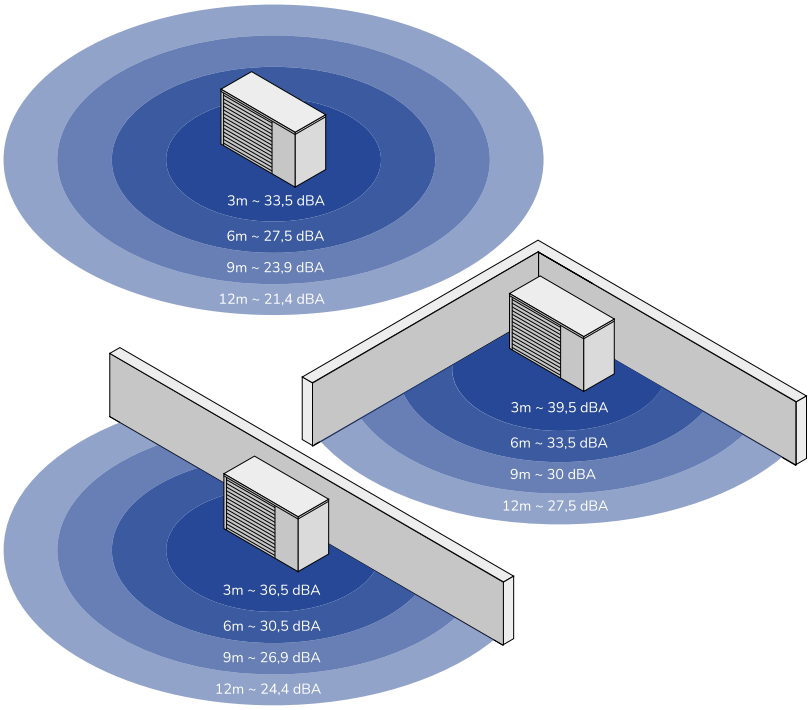
Technical parameters GRANDIS-L



Acoustic parameters

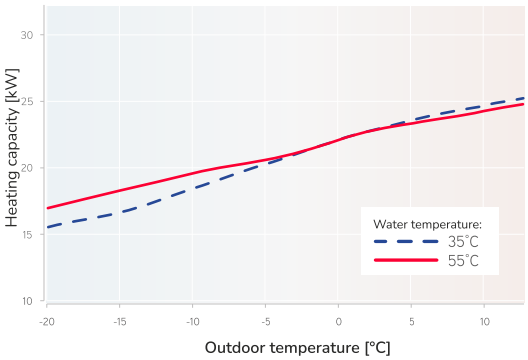
Acond Grandis heat pumps are installed in outdoor environments or in mechanical rooms complying with EN 378-3. Many factors influence sound pressure levels. For example, if the heat pump is placed next to a wall or against a wall in a corner, the structure of the wall, or at what altitude the heat pump ispump placed. Therefore, the sound pressure values given are indicative only.The sound power level was measured at partial power at condition A7/W55 according to EN 12 102.

Model	ACOND GRANDIS-L
Acoustic pressure at 3 m [dB(A)]	33,5
Acoustic pressure at 6 m [dB(A)]	27,5
Acoustic performance L_{WA} [dB(A)]	52,5



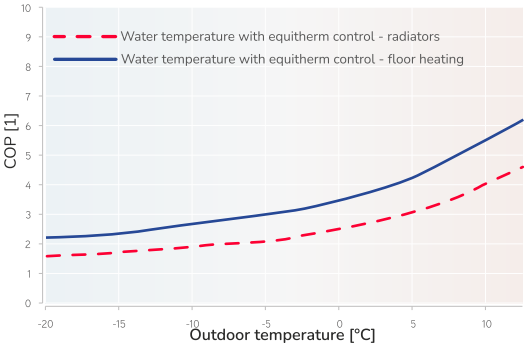
Performance characteristics

Maximum heating capacity depending on the outside temperature and heating water temperature.
The following values are measured during continuous operation.



ACOND GRANDIS-L							
Outdoor temperature [°C]	-15	-10	-5	0	5	10	15
Maximum heating capacity at 35 °C [kW]	17	19	21	22,5	25	26,5	28
Maximum heating capacity at 55 °C [kW]	15,5	17,2	20	22,8	25,5	27,5	29

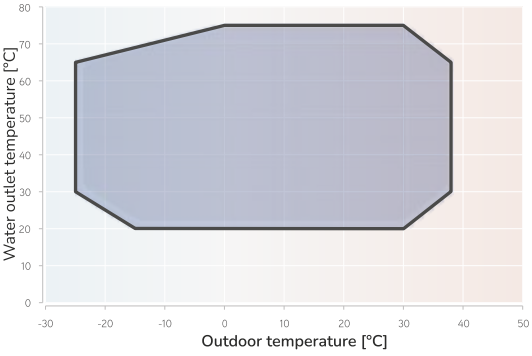
Maximum heating factor depending on outdoor temperature and heating water temperature.
The following values are measured at continuous operation and water temperature controlled by the equitherm curve.



Outdoor temperature [°C]	-20	-15	-10	-5	0	5	10
Water temperature with equitherm control - floor heating [°C]	38	37	35	33	31	28	25
Maximum COP [kW / kW]	2,3	2,6	3,4	4,1	5,2	7	9,5

Outdoor temperature [°C]	-20	-15	-10	-5	0	5	10
Water temperature with equitherm control - radiators [°C]	65	60	55	50	44	38	32
Maximum COP [kW / kW]	1,6	1,9	2,4	2,8	3,7	5	7

The working area is verified by the testing laboratory, meets the requirements of EN 14511-4. Output temperatures are achievable under certain part-load conditions.



Performance parameters

Model	GRANDIS-N	GRANDIS-R	GRANDIS-L
Maximum heat loss of the building at -15°C - underfloor heating [kW]	7 *	15,5 *	28 **
Maximum heat loss of the building at -15°C - Radiators [kW]	7 *	15 *	28 **
Performance parameters at nominal conditions according to EN 14 511			
Heating output x COP at A7/W35 [kW x 1]	3,05 x 5,54	6,98 x 5,52	16,69 x 5,15
Heating output x COP at A7/W55 [kW x 1]	3,3 x 3,26	6,94 x 3,38	14,98 x 3,28
Performance parameters with equithermal control, reference water temperature 35°C according to EN 14 825			
Heating capacity x COP at A12/W27 [kW x 1]	1,81 x 9,14	4,63 x 9	7,14 x 9,6
Heating capacity x COP at A7/W27 [kW x 1]	1,52 x 6,81	4,03 x 7,26	7,38 x 7,59
Heating capacity x COP at A2/W30 [kW x 1]	2,26 x 5,25	5,58 x 5,42	11,31 x 4,26
Heating capacity x COP at A-7/W34 [kW x 1]	3,72 x 3,51	8,97 x 3,57	18,5 x 2,74
Equithermally controlled performance parameters, reference water temperature 55°C according to EN 14 825			
Heating capacity x COP at A12/W35 [kW x 1]	1,75 x 7,16	4,46 x 6,81	7,05 x 7,99
Heating capacity x COP at A7/W36 [kW x 1]	1,45 x 5,29	3,82 x 5,39	7,62 x 5,45
Heating capacity x COP at A2/W42 [kW x 1]	2,15 x 3,98	5,37 x 4,1	11,85 x 3,22
Heating capacity x COP at A-7/W52 [kW x 1]	3,54 x 2,45	8,8 x 2,67	19,42 x 2,24
Parameters for average climate, equithermal control			
P_{design} x SCOP W35 [kW x 1]	4,2 x 5,38	10,2 x 5,58	21 x 4,75
P_{design} x SCOP W55 [kW x 1]	4 x 4,05	9,97 x 4,21	22 x 3,62

* In addition to the building losses (at -15°C) it is necessary to include DHW heating, pool heating if fitted; standardised installation of Acond pumps with auxiliary heating rod

Energy parameters

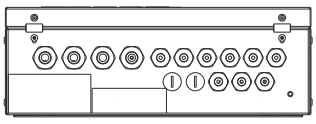
Model			ACOND GRANDIS-N		ACOND GRANDIS-R		ACOND GRANDIS-L	
Reference water temperature [°C]			35	55	35	55	35	55
Average climate	Heating energy class		A+++	A+++	A+++	A+++	A+++	A++
	Seasonal heating energy efficiency	%	212	159	220	165	187	142
	Annual energy consumption for heating	kWh	1613	2040	3770	4896	9134	12543
Warmer climate	Heating energy class		A+++	A+++	A+++	A+++	A+++	A+++
	Seasonal heating energy efficiency	%	275	198	284	204	263	196
	Annual energy consumption for heating	kWh	768	1063	1861	2586	3618	4838
Cooler climate	Heating energy class		A++	A++	A+++	A++	A++	A++
	Seasonal heating energy efficiency	%	173	140	178	143	169	134
	Annual energy consumption for heating	kWh	3360	4139	8179	10157	12011	14723

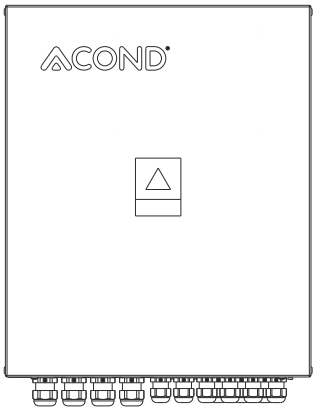
INDOOR UNITS

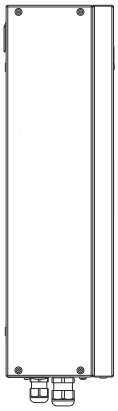
ACOND® ELECTRICAL SWITCHBOARD

Technical data

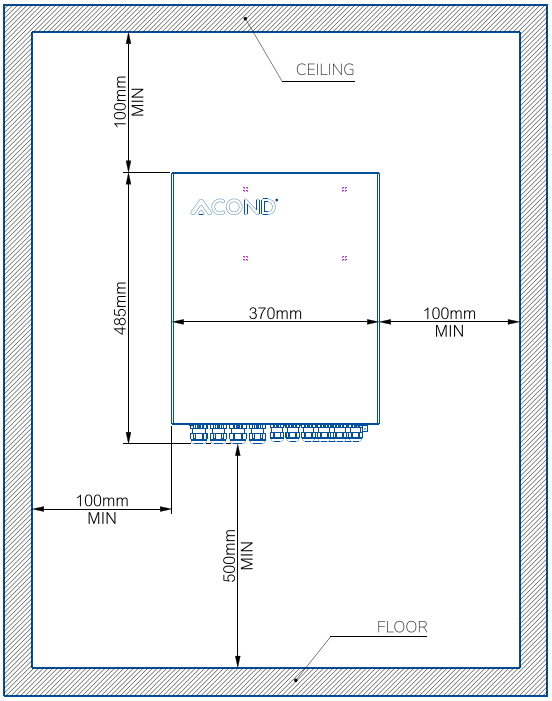
Dimensions H × W × D [mm]	485 x 370 x 131







Technical drawing



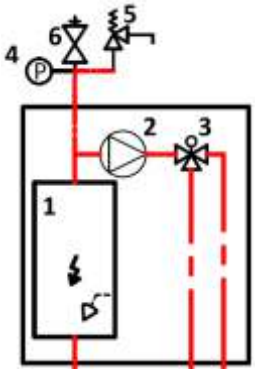
ACOND® HYDROMODULE

Technical data

The ACOND Hydromodul heats the heating water by means of a flow heater and then forces it to circulate in the heating system by means of a circulation pump, or by switching a three-way valve it can heat the DHW in an indirect heating water tank.

Dimensions H × W × D [mm]	709 x 457 x 240
Weight [kg]	22
Degree of coverage	IP20
Maximum heating system pressure [bar]	3
Maximum heating water temperature [°C]	85
Minimum heating water temperature [°C]	20
Hydraulic connection	G1" M
Heat output [kW]	6
Maximum height of the heating system [m]	7

Diagram



Technical drawing

1	Electrical heating rod
2	Circulation pump
3	Three-way valve
	Three-way valve servo
4	Manometer
5	Safety pressure relief valve
6	Vent valve

ACOND® ROOM UNIT

Technical data

The room unit is a universal graphic wall controller with capacitive buttons. Includes temperature, humidity and light intensity sensor, universal AI input for connecting other temperature sensors (e.g. floor temperature, outdoor temperature), window contact, switch, etc. The glass keypad is backlit, the intensity can be infinitely adjusted as well as the brightness of the display.

Display type	OLED (128x64px)
Basic accuracy of the internal humidity sensor (for RH 0 ÷ 80%) [%]	4
Internal thermometer range [°C]	0 ÷ 50
Internal thermometer accuracy [°C]	±0.4
Lighting sensor accuracy [%]	±5
Power and communication [V]	24 (27) ze sběrnice CIB
Maximum consumption [mA]	85

ACOND® WATER TANK S

Technical data

The water tanks S 200 60 and S 300 65 serve as indirect heating water heaters, which by their design allow the heating of hot water (DHW) by different sourcesheat, such as heat pumps, solar collectors, central heating and other types of boilers. It is also possible to insert a heating rod with the appropriate fittings into the tank.

Water tank	S200 60	S300 65
Exchanger area [m2]	2,1	3
Hopper volume [U]	186	271
Hopper capacity [U]	12,5	18,3
Hopper diameter [mm]	600	650
Tray height [mm]	1345	1560
Insulation thickness [mm]	50	50
Weight [kg]	89	106
Maximum heating water temperature [°C]	95	95
Maximum DHW temperature [°C]	110	110
Nominal heating water pressure [bar]	8	8
Rated DHW pressure [bar]	6	6
Heat loss [kWh/day]	1,4	1,6
Energy class	B	B

ACOND® WATER TANK B

Technical data

The water tanks B 200 and B 300 serve as indirect heating water heaters, which by their design allow the heating of hot water (DHW) by different sourcesheat, such as heat pumps, solar collectors, central heating and other types of boilers. It is also possible to insert a heating rod with the appropriate fittings into the tank.

Water tank	B200	B300
Tray material	DIN EN 1.4301	DIN EN 1.4301
Exchanger material	DIN EN 1.4404	DIN EN 1.4404
Insulation material	Polyurethane	Polyurethane
Magnesium anode	Yes	Yes
Exchanger area [m2]	2	2
Tank capacity [V]	185,7	258,6
Hopper diameter [mm]	560	600
Tray height [mm]	1312	1554
Insulation thickness [mm]	45	50
Weight [kg]	53	61,7
Maximum heating water temperature [°C]	85	85
Maximum DHW temperature [°C]	75	75
Maximum heating water pressure [bar]	3	3
Maximum DHW pressure [bar]	6	6
Number of flanges for heating rods	1	1
Number of temperature sumps	3	3
Heat exchanger output [kW]	3	3
Heat loss [kWh/day]	1,55	1,67
Energy class	C	C

ACOND® ACCUMULATION / BUFFER VESSEL

Technical data

Storage vessels are used to accumulate excess heat energy from its source. The accumulation vessel will ensure better defrosting parameters of the heat pump, reduceits cycling, thus extending its life. The containers are not intended for hot water storage.

Accumulation / Buffer vessel	AKU 80E	AKU 100E	AKU 200EE	AKU 300EE	AKU 400EEF	AKU 500EEF
Container material			Stainless steel DIN 1.4301			
Vessel volume [V]	75	92	196	259	390	460
Vessel diameter [mm]	560	470	560	600	650	700
Vessel height [mm]	680	1175	1350	1600	1850	1860
Insulation thickness [mm]	45	50	45	50	50	50
Insulation material			Polyurethane			
Weight [kg]	28	33,2	50,8	70,8	85	98
Maximum operating pressure [bar]			3			
Maximum operating temperature [°C]			90			
Poet flanges for heating rods	1	1	2	2	2	2
Fittings for connection of PV	Ne	Ne	Ne	Ne	Ano	Ano
Number of temperature sumps	1	1	2	2	2	2
Heat loss [kWh/day]	0,85	0,9	1,63	1,86	2,26	2,41
Energy class	B	B	C	C	C	C

ACOND® HYDROBOX

Technical data

Degree of coverage	IP20
Maximum heating system pressure [bar]	3
Maximum heating water temperature [°C]	85
Minimum heating water temperature [°C]	20
Hydraulic connection	G1" F (DHW circulation G3/4" F)

Heat output [kW]	6
Maximum height of the heating system [m]	7
Heating system expansion tank volume	14
Volume of the expansion vessel for DHW	5

Heat pump	Supply voltage code; protection	Hydrobox	Dimensions h x w x d [mm]	Hopper volume [l]	Weight [kg]
PRO-N	3~N/PE/400V/50Hz; B16A*	Hydrobox HB2 PRO-N	1500 x 595 x 650	188	50
		Hydrobox HB3 PRO-N	1900 x 595 x 650	282	70
PRO-N SP	1~N/PE/230V/50Hz; B32A*	Hydrobox HB2 PRO-N SP	1500 x 595 x 650	188	50
		Hydrobox HB3 PRO-N SP	1900 x 595 x 650	282	70
PRO-R	3~N/PE/400V/50Hz; B20A*	Hydrobox HB2 PRO-R	1500 x 595 x 650	188	50
		Hydrobox HB3 PRO-R	1900 x 595 x 650	282	70
PRO-R SP	1~N/PE/230V/50Hz; B50A*	Hydrobox HB2 PRO-R SP	1500 x 595 x 650	188	50
		Hydrobox HB3 PRO-R SP	1900 x 595 x 650	282	70
Grandis-N	3~N/PE/400V/50Hz; B16A*	Hydrobox HB2 Grandis-N	1500 x 595 x 650	188	50
		Hydrobox HB3 Grandis-N	1900 x 595 x 650	282	70
Grandis-N SP	1~N/PE/230V/50Hz; B32A*	Hydrobox HB2 Grandis-N SP	1500 x 595 x 650	188	50
		Hydrobox HB3 Grandis-N SP	1900 x 595 x 650	282	70
Grandis-R	3~N/PE/400V/50Hz; B20A*	Hydrobox HB2 Grandis-R	1500 x 595 x 650	188	50
		Hydrobox HB3 Grandis-R	1900 x 595 x 650	282	70
Grandis-R SP	1~N/PE/230V/50Hz; B50A*	Hydrobox HB2 Grandis-R SP	1500 x 595 x 650	188	50
		Hydrobox HB3 Grandis-R SP	1900 x 595 x 650	282	70

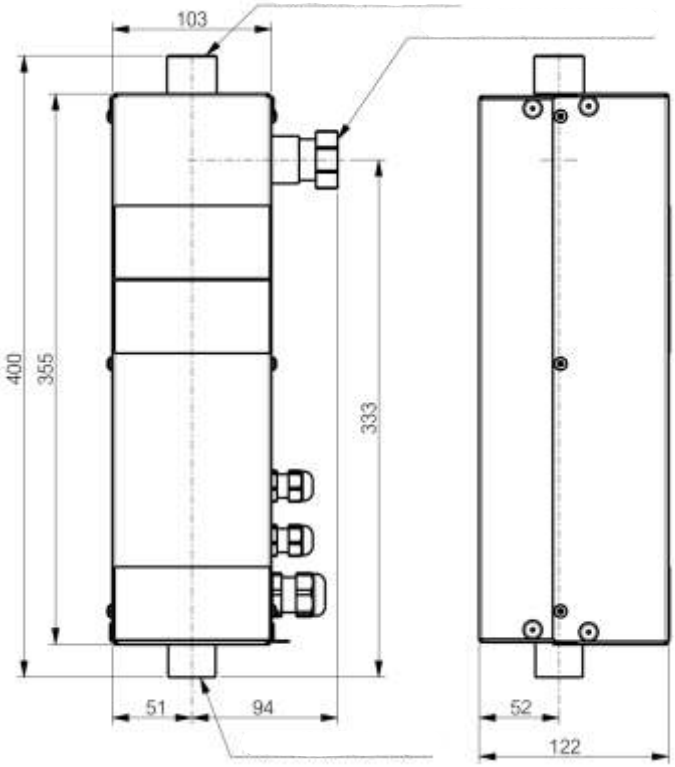
ACOND® ELECTRIC HEATING KIT

Technical data

The EK6 335 electric boiler is designed for auxiliary heating of heating water in a heating system with an Acond heat pump. Its switching is controlled by a control unit locatedin the indoor unit of the heat pump. It is equipped with a temperature sensor and a thermost that switches off the electric boiler in case of an error condition and if the heating water exceeds 85°C. The electric boiler is designed for heating water only.

Rated voltage [V]	3x230 V/400V
Electrical power [kW]	6
Degree of coverage	IP20
Weight [kg]	4
Medium	Heating watter
Maximum heating water temperature [°C]	85
Maximum operating pressure [bar]	3
Ambient temperature [°C]	+2 to 35

Technical drawing



ACOND®

ACOND® CIRCULATION PUMP

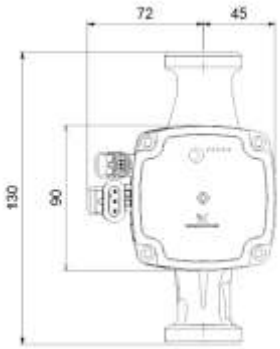
Technical data

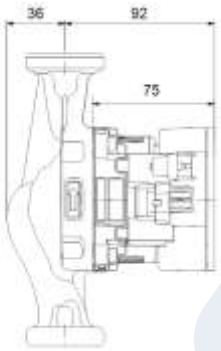
Grundfos Flex As 15-75/130 boiler circulator with external control via signal cable.

Pumped liquid	water
Liquid temperature range [°C]	2-95
Selected liquid temperature [°C]	60
Max. ambient temperature [°C]	55
Maximum operating pressure [bar]	10
Power input - P1 [W]	2-75
Frequency el. Network frequency [Hz]	50
Rated voltage [V]	1 x 230 V
Max. power consumption [A]	0.04 - 0.6
Weight [kg]	2.03
Coverage (IEC 34-5)	IP44

Diagram

Technical drawing



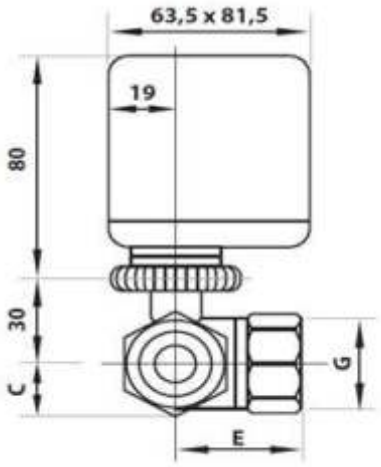


ACOND® THREE-WAY VALVE

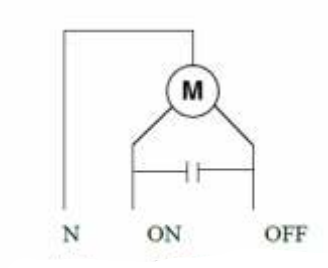
Technical data

Marking	3-way valve, 5/4"
Controls	open/close or 3-point
Voltage	230V AC
Running power [W]	6
Opening time [s]	15
Degree of coverage	IP65
Material	brass
Seal	fluoroplastic (PTFE)
Insert	2x EPDM wheel
Pressure [MPa]	2
Water temperature [°C]	1 to 95
Max differential pressure [MPa]	1

Technical drawing



Diagram



ACOND
heat pumps

WE DELIVER HEAT FOR MORE THAN 10 000 EUROPEAN FAMILIES.

CONTACT US NOW!

01269 833100

sales@thermalearth.co.uk

THERMAL earth

WWW.ACOND.CO.UK