

AN Air-cooled water chillers, heat pumps and condensing units With axial fans and capacities from 5.7 to 70 kW



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R407C

• STANDARD VERSION

• VERSION EQUIPPED WITH WATER PUMP AND STORAGE TANK

Features

- Available in 12 different sizes
- Cooling only, heat pump and air cooled condensing versions
- 2 versions are available:
AN: Standard version
AN A: Version equipped with water pump, expansion vessel, mechanical water filter, storage tank
- All versions, except the motocondensing one,

can be requested to operate at low temperature to produce water cooled from 4 °C down to -6 °C. **This request must be specified when the order is placed.**

- High efficiency scroll compressors with low power consumption
- Antifreeze electric heater for the storage tank. Standard on AN 2507 A - 3007 A
- Water side differential pressure switch stan-

dard on all models

- Electronic control card with compressor starting delay and defrosting cycle control
- High efficiency heat exchangers
- Axial flow fan units for extremely quiet operation
- Metallic protective cabinet with rustproof polyester paint

Accessories

- **BDX:** Condensate drip tray for outdoor unit
- **DCPX:** Low temperature device for correct cooling mode operation with ambient temperatures from less than 19 °C down to -10 °C.
- **DRE:** Electronic peak current reducer. **It must be factory-mounted.**
- **GP:** Safety grille: protects external coils from accidental impact.
- **KR:** Antifreeze electric heater for plate exchanger. **It must be factory-mounted.**

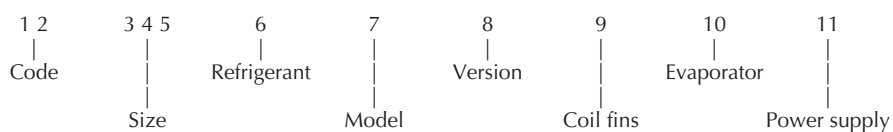
- **PR3:** Simplified remote control panel. All main functions of the unit, alarms included, are possible. It can be used with a shielded cable at a distance of 30 m.
- **PRD:** 'Intelligent' remote control panel with the same functions as the on-board panel. It can be used with a shielded cable at a distance of 150 m.
- **RA:** Antifreeze electric heater for the storage tank. **It must be factory-mounted.**

- **SDP:** Electronic card for using PR1 accessory up to a distance of 150 m.
- **VT:** Anti-vibration mounts.

Selection

By combining the various options, each model can be configured exactly to match even the most specific system requirements.

Configuration rules:



Code:

AN

Size:

020, 025, 030, 041, 050, 080, 090, 101, 151, 200, 250, 300

Refrigerant:

7 - R407C

Model:

° - Cooling only

H - Heat pump

Version:

° - Standard

A - With pump and storage tank

Coil fins:

° - Aluminium

R - Copper

S - Tinned copper

V - Painted / copper aluminium version

Evaporator:

° - Standard

C - Without evaporator

Power supply:

M - 1~ 230V 50Hz

3 - 3~ 230V 50Hz

° - 3N~ 400V 50Hz

Warning:

- standard options are shown by symbol °;
- heat pump version and the motocondensing version (field 7: option H; field 10: option C) are not available;
- Single-phase power supply (field 11: option M) is possible for 020 - 025 - 030 size only.

Commercial code example: **AN1017HAR**

This is a new AN unit, size 101, charged with R407C, equipped with heat pump, storage tank and water pump, copper condensing coil, evaporator, suitable for compressor with 3N~ 400V 50Hz motor.

Note that as each option is precisely identified, it is not necessary to specify standard options (shown with °) in the commercial code.

Compatibility of accessories												
All versions	0207	0257	0307	0417	0507	0807	0907	1017	1517	2007	2507	3007
DCPX	✓	✓	✓	✓	✓	✓	✓		✓	✓		
DCPX 10								✓	✓	✓		
DCPX 11											✓	✓
DCPX 39*	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
DCPX 40*								✓	✓	✓		
DCPX 41*											✓	✓
DRE 5					✓	✓	✓					
DRE 10								✓				
DRE 15									✓	✓		
DRE 25											✓	
DRE 30												✓
GP 3											✓	✓
GP 4*											✓	✓
Standard versions	0207	0257	0307	0417	0507	0807	0907	1017	1517	2007	2507	3007
BDX 5	✓	✓	✓	✓	✓	✓	✓					
KR 2	✓	✓										
KR 3			✓	✓	✓	✓	✓	✓	✓	✓		
KR 5											✓	✓
PR3	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
PRD	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
SDP	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
VT 7	✓	✓	✓	✓	✓	✓	✓					
VT 8								✓	✓	✓		
VT 12											✓	✓
A versions	0207	0257	0307	0417	0507	0807	0907	1017	1517	2007	2507	3007
BDX 5	✓	✓	✓	✓								
BDX 6					✓	✓	✓					
KR 3					✓	✓	✓	✓	✓	✓		
PR3	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
PRD	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
RA	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
SDP	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
VT 7	✓	✓	✓									
VT 8				✓	✓	✓	✓					
VT 9								✓	✓	✓		
VT 13											✓	✓
C versions	0207	0257	0307	0417	0507	0807	0907	1017	1517	2007	2507	3007
VT 7	✓	✓	✓	✓	✓	✓	✓					
VT 8								✓	✓	✓		
VT 12											✓	✓

* = Only for heat pump versions.

Technical data

Mod. AN	Version	0207	0257	0307	0417	0507	0807
Cooling capacity (kW)	All	5.7	6.6	8.2	10.4	13.7	18.2
Total input power (kW)	Standard	2.30	2.65	3.25	3.59	4.60	6.10
	A	2.46	2.82	3.43	3.86	4.88	6.4
Total input current (A) 230V/400V	Standard	11.3 / 4.0	12.6 / 4.8	15.8 / 5.8	(17.5 / 14.4 / 6.2)*	20.5 / 12.5	27.4 / 12.5
	A	12.1 / 5.4	13.3 / 6.2	16.7 / 7.5	(19.8 / 17.1 / 8.9)*	21.6 / 11.1	28.5 / 13.6
Water flow rate (l/h)	All	980	1140	1410	1790	2360	3130
Pressure drop (kPa)	Standard	4.3	4.4	28.0	27.0	37.1	28.9
Effective pressure (kPa)	A	71	67	67	61	62	57
Heating capacity (kW)	H - HA	7.4	8.5	9.7	11.8	15.2	19.2
Total input power (kW)	H	2.78	3.24	3.72	4.33	5.35	6.8
	HA	2.94	3.4	3.9	4.6	5.6	7.1
Total input current (A) 230V/400V	H	13.5 / 4.9	15.1 / 5.5	17.6 / 6.5	(20.3 / 18.3 / 7.3)*	22 / 11.1	28.6 / 14.4
	HA	14.3 / 6.1	15.3 / 6.6	18.5 / 8.2	(22.3 / 20.3 / 9.3)*	23.2 / 12.4	29.7 / 15.5
Water flow rate (l/h)	H - HA	1270	1460	1670	2030	2610	3300
Pressure drop (kPa)	H	5	7	38	30	39	26
♪ Sound pressure - dB (A)	All	31	35	37	35	40	39
Total air flow rate (m³/h)	All	2500	3300	3450	5300	7000	6700
Water connections (Ø female)	Standard	1"	1"	1"	1"	1"	1"
	A	1"	1"	1"	1"	1"1/4	1"1/4
Evaporator water contents (dm³)	All	0.6	0.75	0.85	0.85	1.03	1.41
Pump speed (n.)	A	3	3	3	3	3	3
Expansion tank capacity (l)	A	2	2	2	5	5	5
Storage tank capacity (l)	A	25	25	35	35	75	75

* = AN 0417: 1~ 230V 50Hz / 3~ 230V 50Hz / 3N~ 400V 50Hz

Mod. AN	Version	0907	1017	1517	2007	2507	3007
Cooling capacity (kW)	All	21.1	27.4	35	42 / 40**	57 / 54**	70 / 66.5**
Total input power (kW)	Standard	7.0	9.2	12.25	14 / 13.9**	19.2 / 19.4**	23.3 / 23.4**
	A	7.3	9.8	12.9	14.7 / 14.6**	19.95 / 20.1**	24.05 / 24.2**
Total input current (A)	230V	Standard	22	33	45.5 / 45.5**	60 / 61.6**	72.4 / 74**
		A	23.5	36.3	45.8 / 48**	59.1 / 65.1**	71.5 / 77.5**
	400V	Standard	13	19	27.7 / 27.7**	37 / 38.5**	44.1 / 45.7**
		A	14.5	21	29.2 / 29.1**	38.9 / 40.4**	46 / 47.6**
Water flow rate (l/h)	All	3630	4710	6020	7220 / 6880**	9800 / 9290**	12040 / 11440**
Pressure drop (kPa)	Standard	30.6	26.3	29.0	36 / 32.5**	30 / 27**	35 / 41**
Effective pressure (kPa)	A	50	69	68	70	139 / 143**	128 / 133**
Heating capacity (kW)	H - HA	22.7	29.5	35	45	61	75
Total input power (kW)	H	8.4	10.3	12	16.4	22.3	26.8
	HA	8.7	10.9	12.7	17.1	23.1	27.5
Total input current (A)	230V	H	23.5	36	42	51.7	64.4
		HA	25	39.3	45	54.2	67.9
	400V	H	14.5	21	24	31.2	43.2
		HA	16	23	26	32.7	45.1
Water flow rate (l/h)	H - HA	3900	5070	6020	7740	10490	12900
Pressure drop (kPa)	H	36	24	28	45	32	37
♪ Sound pressure - dB (A)	All	39	46	48	47	44	45
Total air flow rate (m³/h)	All	6450	13450	12400	12000	21000	21000
Water connections (Ø female)	Standard	1"	1"	1"	1"	2"1/2	2"1/2
	A	1"1/4	***	***	***	2"1/2	2"1/2
Evaporator water contents (dm³)	All	1.78	2.44	3.1	3.1	5.52	6.48
Pump speed (n.)	A	3	1	1	1	1	1
Expansion tank capacity (l)	A	5	8	8	8	24	24
Storage tank capacity (l)	A	75	145	145	145	500	500

Power supply: for 0207 - 0257 - 0307: 1~ 230V 50 Hz; 3N~ 400V 50 Hz.
for 0417: 1~ 230V 50 Hz; 3~ 230V 50 Hz; 3N~ 400V 50 Hz.
for 0507 - 0807 - 0907 - 1017 - 1517 - 2007 - 2507 - 3007: 3~ 230V 50 Hz; 3N~ 400V 50 Hz.

Performance values refer to the following conditions:

♪ Sound pressure measured in free field conditions at distance of 10 m and direction factor = 2.
In accordance with ISO 3744 regulations

■ Cooling:

- water outlet temperature 7 °C;
- ambient air temperature 35 °C;
- Δt = 5 °C.

■ Heating:

- water outlet temperature 50 °C;
- ambient air temperature 7 °C D.B., 6 °C W.B.;
- Δt = 5 °C.

** = Only for heat pump versions.

***= 1"1/2 inlet; 1"1/4 outlet

Technical data

Mod. AN (condensing unit)		0207 C	0257 C	0307 C	0417 C	0507 C	0807 C	0907 C	1017 C	1517 C	2007 C	2507 C	3007 C
Cooling capacity	kW	6.3	7.5	9.2	11.7	15.5	20	23	29	37	45	60	73.5
Total input power	kW	2.35	2.7	3.3	3.8	4.7	6.15	6.9	9.2	10.8	13.9	18.65	22.8
Total input current	A (230V)	11	12.3	15.7	11.7	16	21.2	22.6	31.3	41.3	44.1	58.5	71.5
	A (400V)	4.6	5.3	6.3	7.1	9.8	12.8	13.6	18	25	27	36	43.6
Sound pressure	dB (A)	31	35	37	35	40	39	39	46	48	47	44	45
Total air flow rate	m³/h	2500	3300	3450	5300	7000	6700	6450	13450	13450	12000	21000	21000

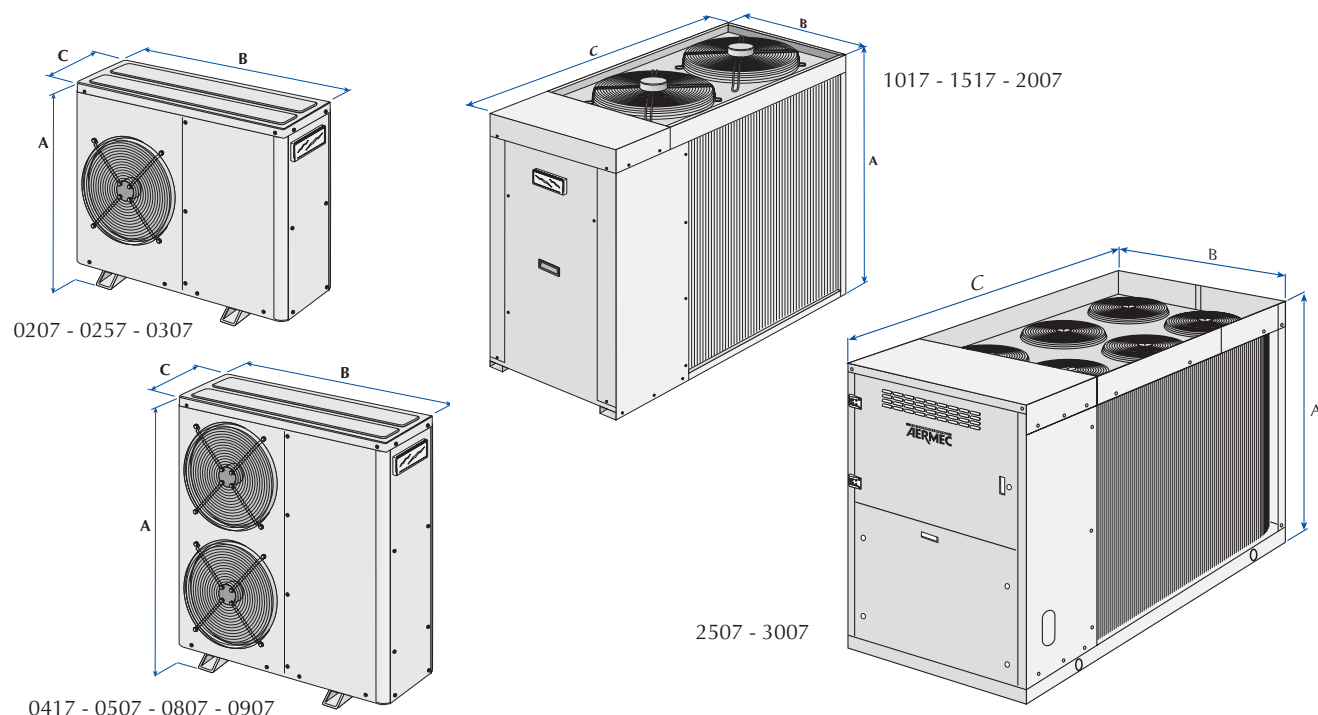
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for 0507 - 0807 - 0907 - 1017 - 1517 - 2007 - 2507 - 3007: 3~ 230V 50 Hz; 3N~ 400V 50 Hz.

Performance values refer to the following conditions:

- Sound pressure measured in free field conditions at distance of 10 m and direction factor = 2.

- Cooling:
 - evaporation temperature 5 °C;
 - ambient temperature 35 °C.

Dimensions (mm)



AN Standard (Std) - C		0207	0257	0307	0417	0507	0807	0907	1017	1517	2007	2507	3007
Height	A	850	850	1000	1250	1250	1250	1250 1550*	1345	1345	1345	1606	1606
Width	B	900	900	900	1120	1120	1120	1120	750	750	750	1100	1100
Depth	C	352	352	352	435	435	435	435	1750	1750	1750	2450 2950*	2450 2950*
Weight (kg)	AN	74	77	81	113	123	131	168	280	293	350	650	695
	AN H	78	81	85	119	129	137	195	295	328	385	745	760
	AN C	70	71	76	107	116	122	157	266	276	333	623	663

AN A		0207	0257	0307	0417	0507	0807	0907	1017	1517	2007	2507	3007
Height	A	864	864	1014	1250	1280	1280	1280 1580*	1345	1345	1345	1606	1606
Width	B	1120	1120	1120	1120	1167	1167	1167	750	750	750	1100	1100
Depth	C	435	435	435	435	555	555	555	1750	1750	1750	2450 2950*	2450 2950*
Weight** (kg)	AN A	109	113	120	139	183	189	226	342	370	427	780	825
	AN HA	113	117	125	145	189	195	253	360	410	460	875	890

* = Heat pump version.

** = AN A - HA: net weight.