

## AS Split system air-cooled air conditioners and heat pumps With radial fans and capacities from 10 to 41.2 kW

### R407C



### Features

- All versions are supplied for use with R407C
- Heat pump (H) versions
- Metallic protective cabinet with rustproof polyester paint
- Scroll compressor with protective and sound-insulating cover
- Quiet operation
- Variable speed radial fans
- Handling unit air expulsion port on top, rear and, on request, on base
- Packaged or split installation
- Electronic control
- Main power switch with door lock handle supplied as standard
- Thermal magnetic circuit breaker for compressor supplied as standard
- Low voltage (24V) remote control panel with protection trip indication
- Facility for time and temperature controlled defrost cycles

### Accessories

- **BAS:** Copped-aluminium heating coil supplied in a special shell for installation on the indoor unit air outlet. Can be supplied for vertical air delivery (BAS) or horizontal delivery (BAS - Z).
- **DR:** Low temperature device for operation of outdoor units (cooling only versions) below 20 °C. Not compatible with accessory FRC.
- **FRC:** Duct flange made of painted steel sheet; for connections to air intake and delivery ducts. Not compatible with accessory DR
- **GE:** Intake grille, made of painted steel sheet, for installation on the filter frame on indoor unit air intake.
- **PM:** Delivery plenum made of painted steel sheet and equipped with double row of adjustable slats; designed for installation on air outlet of indoor unit for direct delivery of processed air into the room without ducting.
- **PMC:** Central monitor panel for remote display of either individual alarm signals or a general alarm indication. The monitor panel is required when it is impractical to utilize the standard control panel.
- **RES:** Armoured heating element complete with safety thermostat; supplied in a dedicated shell for installation on the indoor unit delivery port. The heating element is available for both vertical (RES - V) and horizontal (RES - Z) air delivery versions.
- **SDS:** Air sensor interface; serves to transfer the air sensor from inside the control panel to a location on the indoor unit air intake.

Mod.	Compatibility of accessories				
	37	57	77	107	157
BAS 31	✓				
BAS 51		✓			
BAS 76			✓		
BAS 101				✓	
BAS 151					✓
DR 32	✓				
DR 52		✓			
DR 77			✓		
DR 102				✓	
DR 152					✓
FRC 31	✓				
FRC 51		✓			
FRC 76			✓		
FRC 101				✓	
FRC 151					✓

Mod.	Compatibility of accessories				
	37	57	77	107	157
GE 31	✓				
GE 51		✓			
GE 76			✓		
GE 101				✓	
GE 151					✓
PM 31	✓				
PM 51		✓			
PM 76			✓		
PM 101				✓	
PM 151					✓
PMC	✓	✓	✓	✓	✓
RES	✓	✓	✓	✓	✓
SDS	✓	✓	✓	✓	✓

\* = only for AS H

## Technical data

Mod.		37	57	77	107	157	
Cooling capacity (AS)	kW	10	15	23	31.2	41.2	
Input power	kW	4.1	5.9	9.4	12.1	15.9	
Total input current	A (230 V)	13.7	20.9	31.3	41.9	51.9	
	A (400 V)	7.9	12.1	18.1	24.2	30	
Cooling capacity (AS H)	kW	9.6	14.5	22.6	31.8	41.2	
Input power	kW	4.0	6.0	9.3	12.1	15.9	
Total input current	A (230 V)	15.5	23.5	30.2	41.9	51.9	
	A (400 V)	7.8	12.4	17.5	24.2	30.0	
Heating capacity (AS H)	kW	9.4	14.2	23.2	34.2	44.0	
Input power	kW	3.7	5.5	8.6	10.7	15.5	
Total input current	A (230 V)	14.4	24.9	29.0	39.4	51.0	
	A (400 V)	7.5	11.8	16.7	22.8	29.5	
Heating capacity with accessory RES	kW	3	6	6	9	15	
Heating capacity with accessory BAS*	kW	18.46	29.36	44.67	61.84	91.14	
Water flow rate with accessory BAS*	l/h	1588	2525	3842	5318	7838	
Pressure drops with accessory BAS*	kPa	2.06	6.41	6.02	8.82	15.37	
Indoor unit	Fans	n.	1	2	2	1	2
	Fan speed	rpm (min./max.)	750/1000	800/1080	745/940	540/680	540/680
	Nominal air flow rate	m <sup>3</sup> /h	2040	3400	5100	6800	10200
	Motor power	kW	0.37	0.75	1.1	1.5	2.2
	Motor speed	rpm	1400	1410	1410	1420	1430
	♪ Sound pressure	dB (A)	44	50	48	51	50
Outdoor unit	Fans	n.	2	2	2	2	2
	Fan speed	rpm (min./max.)	920/1170	810/1060	745/945	610/735	530/685
	Nominal air flow rate	m <sup>3</sup> /h	3500	6000	8600	12000	16000
	Motor power	n. x kW	1 x 0.75	1 x 1.1	1 x 1.5	2 x 1.1	2 x 1.5
	Motor speed	rpm	1410	1410	1420	920	940
	♪ Sound pressure	dB (A)	45.5	47.5	50	50.5	51
Peak current	A (230 V)	100	144	175	225	250	
	A (400 V)	46	70	104	139	145	

**Power supply** = 3~ 230V 50Hz; 3N~ 400V 50Hz.

Performance values refer to the following conditions:

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

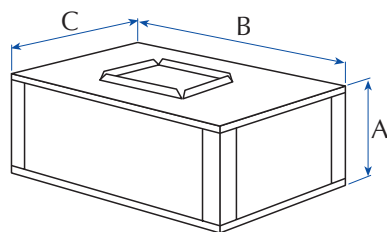
■ Cooling:

- room air temperature 27 °C D.B., 19 °C W.B.;
- ambient air temperature 35 °C.

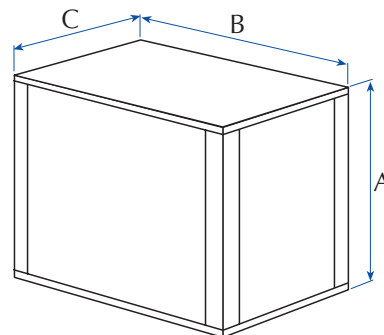
■ Heating:

- room air temperature 20 °C;
- ambient air temperature 7 °C D.B., 6 °C W.B.;
- \* water inlet temperature 70 °C -  $\Delta t = 10$  °C.

## Dimensions (mm)



INDOOR UNIT



OUTDOOR UNIT

		Indoor unit					Outdoor unit				
		37	57	77	107	157	37	57	77	107	157
Height	A	520	520	620	770	770	975	975	1200	1310	1310
Width	B	950	1300	1500	1750	2000	950	1300	1500	1750	2000
Depth	C	600	600	700	850	850	600	600	700	850	850
Weight	kg	80	95	124	159	212	145	176	286	378	449