

**ACHBA**  
Heat pump  
**ACHA**  
Cooling only

**CCHBA / ECHBA**  
Heat pump  
**CCHA / ECHA**  
Cooling only



ACHBA / ACHA - Compact configuration  
CCHBA / ECHBA CCHA / ECHA - Split configuration

## Maximum flexibility for climate-control via ducts

Autonomous, compact and split horizontal construction units suitable for connection to both indoor and outdoor sections of a network of air distribution ducts.

### MAIN FEATURES

- Maximum cooling capacities ranging from 12.4 to 33.5 kW
- Scroll compressor
- R-410A refrigerant (split version: delivered with no refrigerant load)

### AVAILABLE VERSIONS

- Heat pump
- Cooling only

### ADVANTAGES

- With continuous outdoor air intake to renew the air (Comfort Compatible)
- Cooling distance between indoor and outdoor (split configuration) up to 50 m in total
- Can be combined with the RCAH range of heat recovery units for compliance with the requirements of Spanish Regulation on Indoor Heating/Air-conditioning Installations - known by the acronym RITE

### APPLICATIONS

- Designed to be installed inside the building to be air-conditioned, they are characterised by offering great flexibility in the installation
- Climate-control for industrial applications, industrial plans and the services sector

### REGULATION

Control as standard: **TH TUNE**    Optional control: **PGD**    Optional control: **MINI PGD**



See regulation and control on page 22.

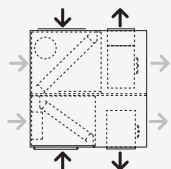
## POSSIBLE AIR INLET/OUTLET CONFIGURATIONS

→ Standard

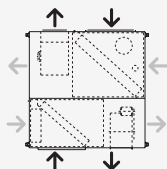
→ Optional

### ACHA/ACHBA

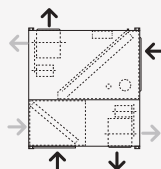
401, 501



701, 721, 751, 801

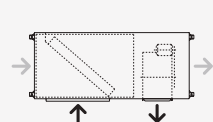


1001, 1201

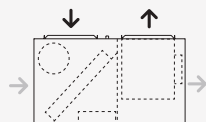


### ECHA/CCHA - ECHBA/CCHBA

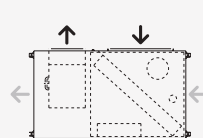
ECHA/ECHBA 401, 1201



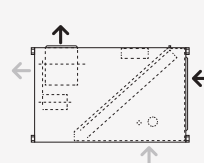
CCHA/CCHBA 401, 501



CCHA/CCHBA 701, 721, 751, 801



CCHA/CCHBA 1001, 1201



### ACHBA - ACHA SERIES Compact configuration

MODEL		401	501	701	721	751	801
Nominal cooling capacity (1)	kW	12.4	14.1	17.2	18.5	20.8	21.9
Nominal heating capacity (2)	kW	13.8	16.4	18.9	20.4	21.9	24.6
Total power input, cooling (1)	kW	5.2	6.5	7.8	8.5	9.5	9.7
Total power input, heating (2)	kW	5.1	6.4	6.9	7.9	8.1	8.8
EER / COP		2.4 / 2.7	2.2 / 2.6	2.2 / 2.7	2.2 / 2.6	2.2 / 2.7	2.3 / 2.8
Power supply (50 Hz ~)	V	400.3 + N	400.3 + N	400.3 + N	400.3 + N	400.3 + N	400.3 + N
Gas charge	kg	4.10	5.00	5.70	5.70	5.90	6.70
Airflow - static pressure (int.)	m <sup>3</sup> /h - Pa	2,700 - 32	3,200 - 48	4,300 - 50	4,300 - 50	4,300 - 50	4,300 - 50
Airflow - static pressure (ext.)	m <sup>3</sup> /h - Pa	3,800 - 40	4,150 - 50	5,600 - 50	5,600 - 50	5,700 - 50	6,200 - 50
Dimensions (length x width x height)	mm	1,512 x 1,389 x 562	1,512 x 1,389 x 562	1,697 x 1,755 x 640	1,697 x 1,755 x 640	1,697 x 1,755 x 640	1,697 x 1,755 x 640
Net weight	kg	253	266	384	384	402	408
MODEL		1001	1201				
Nominal cooling capacity (1)	kW	28.4	33.5				
Nominal heating capacity (2)	kW	29.8	37.2				
Total power input, cooling (1)	kW	12.4	15.1				
Total power input, heating (2)	kW	11.8	14.4				
EER/ COP		2.3 / 2.5	2.2 / 2.6				
Power supply (50 Hz ~)	V	400.3 + N	400.3 + N				
Gas charge	kg	9.00	9.50				
Airflow - static pressure (int.)	m <sup>3</sup> /h - Pa	5,900 - 60	7,750 - 82				
Airflow - static pressure (ext.)	m <sup>3</sup> /h - Pa	7,600 - 50	10,000-70				
Dimensions (length x width x height)	mm	1,998 x 1,755 x 672	2,347 x 2,300 x 772				
Net weight	kg	425	620				

(1) Nominal cooling conditions. Indoor dry temperature: 27°C. Indoor wet temperature: 19°C. Outdoor temperature: 35°C.

(2) Nominal pumping conditions. Outdoor dry temperature: 7°C. Outdoor wet temperature: 6°C.

## CCHBA - CCHA SERIES *Split configuration / Outdoor unit*

MODEL		401	501	701	721	751	801
Nominal cooling capacity (1)	kW	12.4	14.1	17.2	18.5	20.8	21.9
Nominal heating capacity (2)	kW	13.8	16.4	18.9	20.4	21.9	24.6
Total power input, cooling (1)	kW	4.8	5.9	7.0	7.7	8.7	8.9
Total power input, heating (2)	kW	4.7	5.8	6.1	7.1	7.3	8.0
EER/ COP		2.4 / 2.9	2.2 / 2.8	2.2 / 2.8	2.2 / 2.6	2.2 / 2.6	2.3 / 2.8
Power supply (50 Hz ~)	V	400.3 + N	400.3 + N	400.3 + N	400.3 + N	400.3 + N	400.3 + N
(3) Gas charge (including 0 m line)	kg	4.10	5.00	5.70	5.70	5.90	6.70
Cold connection. Liquid line (*)	Ø (")	1/2	1/2	1/2	1/2	5/8	5/8
Cold connection. Gas line (*)	Ø (")	7/8	7/8	7/8	7/8	7/8	7/8
Airflow - static pressure (ext.)	m <sup>3</sup> /h - Pa	3,800 - 40	4,150 - 50	5,600 - 50	5,600 - 50	5,700 - 50	6,200 - 50
Dimensions (length x width x height)	mm	1,455 x 843 x 562	1,455 x 843 x 562	1,755 x 1.004 x 640	1,755 x 1.004 x 640	1,755 x 1.004 x 640	1,755 x 1.004 x 640
Net weight	kg	172	172	223	223	263	272

MODEL		1001	1201
Nominal cooling capacity (1)	kW	28.4	33.5
Nominal heating capacity (2)	kW	29.8	37.2
Total power input, cooling (1)	kW	8.7	10.7
Total power input, heating (2)	kW	8.1	9.1
EER/ COP		2.3 / 2.5	2.1 / 2.5
Power supply (50 Hz ~)	V	400.3 + N	400.3 + N
(3) Gas charge (including 0 m line)	kg	9.00	9.50
Cold connection. Liquid line (*)	Ø (")	5/8	5/8
Cold connection. Gas line (*)	Ø (")	1 1/8	1 1/8
Airflow - static pressure (ext.)	m <sup>3</sup> /h - Pa	7,600 - 50	10,000-70
Dimensions (length x width x height)	mm	1,750 x 1.057 x 662	2,300 x 1.382 x 782
Net weight	kg	292	410

## ECHBA - ECHA SERIES *Split configuration / Indoor unit*

MODEL		401	501	701	721	751	801
Nominal cooling capacity (1)	kW	12.4	14.1	17.2	18.5	20.8	21.9
Nominal heating capacity (2)	kW	13.8	16.4	18.9	20.4	21.9	24.6
Total power input, cooling (1)	kW	0.4	0.6	0.8	0.8	0.8	0.8
Total power input, heating (2)	kW	0.4	0.6	0.8	0.8	0.8	0.8
Power supply (50 Hz ~)	V	230.1 - 400.3+N	400.3 + N	400.3 + N	400.3 + N	400.3 + N	400.3 + N
Cold connection. Liquid line (*)	Ø (")	1/2"	1/2"	1/2"	1/2"	5/8"	5/8"
Cold connection. Gas line (*)	Ø (")	7/8"	7/8"	7/8"	7/8"	7/8"	7/8"
Airflow - static pressure (int.)	m <sup>3</sup> /h - Pa	2,700-32	3,200-48	4,300-50	4,300 - 40	4,300 - 50	4,300 - 50
Dimensions (length x width x height)	mm	1,455 x 642 x 562	1,455 x 642 x 562	1,755 x 752 x 640	1,755 x 752 x 640	1,755 x 752 x 640	1,755 x 752 x 640
Net weight	kg	89	96	136	136	137	137

MODEL		1001	1201
Nominal cooling capacity (1)	kW	28.4	33.5
Nominal heating capacity (2)	kW	29.8	37.2
Total power input, cooling (1)	kW	1.5	1.5
Total power input, heating (2)	kW	1.5	1.5
Power supply (50 Hz ~)	V	400.3 + N	400.3 + N
Cold connection. Liquid line (*)	Ø (")	5/8"	5/8"
Cold connection. Gas line (*)	Ø (")	1 1/8"	1 1/8"
Airflow - static pressure (int.)	m <sup>3</sup> /h - Pa	5,900 - 60	7,750 - 82
Dimensions (length x width x height)	mm	1,750 x 900 x 662	2,300 x 925 x 782
Net weight	kg	172	209

(1) Nominal cooling conditions. Indoor dry temperature: 27°C. Indoor wet temperature: 19°C. Outdoor temperature: 35°C.

(2) Nominal pumping conditions. Outdoor dry temperature: 7°C. Outdoor wet temperature: 6°C.

(3) Only units which include, as standard, "Flare" valves (not as optional) are charged with refrigerant; others come pre-charged with dry nitrogen.

(\*) For sizing of refrigerated lines depending on layout and total installation distance consult our Commercial Department.

## AVAILABLE OPTIONAL FEATURES

### ENERGY SAVING

- Option of mixing module for freecooling with two and three dampers
- Thermal or enthalpy regulation with  $\mu$ PC control card
- Condensation control by frequency converter or voltage converter
- Compressor soft-start (depending on models)
- Soft-start of the indoor and/or outdoor fan (depending on models)

### AIR QUALITY

- Gravimetric filter in return G4
- Opacimetric filter in return class F6 to F9 (combinable with a G4 or Fx+Fy)

### NOISE LEVEL

- Double thermo-acoustic insulation
- Compressor acoustic insulation

### UNIT INSTALLATION

- Magneto-thermal switches in the electrical panel
- Power supply at 60 Hz and voltages of 230, 208, etc.
- Option of manufacturing units with symmetric configuration
- Kit for outdoor installation
- Uprated motors
- Anti-freeze trace heater for condensate
- Hot gas bypass
- Heating coils for hot water
- Auxiliary electric heater
- Anti-corrosion treated coils
- Fireproof filter class M1
- Thermal insulation Euroclass A1 (M0)
- R407C refrigerant models available upon request
- Prepared for disassembly

- Only for split configuration:
  - Oil separator
  - Quick-connect valves with preload of refrigerant gas
- Anti-corrosion treated coils
- Prepared for disassembly
- Fireproof filter class M1
- Thermal insulation Euroclass A1 (M0)

### MAINTENANCE

- Service valves
- External pressure taps
- Detector of dirty filters
- Condenser filter
- Split filter

### REGULATION AND CONTROL

- PGD and MINI PGD thermostat
- Alarm signalling
- Smoke detection
- Remote run/stop
- Separate electrical panel
- Option for master-slave operation
- Unit without thermostat
- Ambient temperature or wall-mounted sensor
- Return temperature sensor in duct
- Operation for redundant machine
- Centralised comprehensive management operation
- Operation without neutral
- Scheduling function and ModBus connection, etc. (refer to the Thermostats chapter)

As well as these options, please check with our Commercial Department for any other configuration or function not described as available.

## OPTION FOR HIGHER EFFICIENT SYSTEM WITH THE APPLICATION OF PLUG FAN

### PLUG FAN

- Greater energy efficiency
- Lower consumption
- Quieter
- High pressures available
- Low maintenance cost

