

CCHBA

Heat pump

CCHA

Cooling only

FTBA



Low-silhouette split configuration

Maximum flexibility for climate-control via ducts

Sets comprising a centrifugal condenser unit (outdoor unit) and a low-silhouette direct expansion fan-coil evaporator unit (indoor unit).

MAIN FEATURES

- Maximum cooling capacities ranging from 14.5 to 19.3 kW
- indoor 3-speed fan
- 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)
- The reduced height of the indoor units make them ideal for fast installation in false ceilings, with the unit either supported or suspended
- The maximum connection distance between indoor unit and outdoor unit is 50 metres

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.

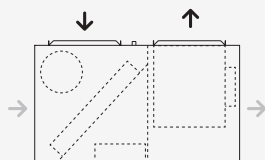
POSSIBLE AIR INLET/OUTLET CONFIGURATIONS

→ Standard

→ Optional

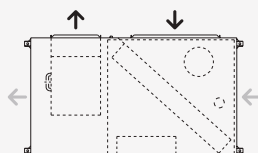
CCHA/CCHBA

501



CCHA/CCHBA

701, 721



CCHBA - CCHA / FTBA SERIES Split configuration / Outdoor and indoor unit

OUTDOOR UNIT		501	701	721
INDOOR UNIT		501	721	721
Nominal cooling capacity (1)	kW	14.5	18.0	19.3
Nominal heating capacity (2)	kW	15.3	19.8	20.6
Total power input, cooling (1)	kW	6.4	8.0	8.7
Total power input, heating (2)	kW	6.3	7.1	8.1
EER/ COP		2.3 / 2.4	2.3 / 2.8	2.2 / 2.5
Power supply (50 Hz ~)	V	400.3 + N	400.3 + N	400.3 + N
(3) Gas charge (including 0 m line)	kg	5.0	5.7	5.7
Airflow - static pressure (int.)	m ³ /h - Pa	2,500 - 76	3,000 - 105	3,000 - 105
Airflow - static pressure (ext.)	m ³ /h - Pa	4,150 - 50	5,600-50	5,600 - 50
Liquid pipe diameter (*)	Ø (")	1/2	1/2	1/2
Gas pipe diameter (*)	Ø (")	7/8	7/8	7/8
Outdoor unit dimensions (length x width x height)	mm	1,455 x 843 x 562	1,755 x 1.004 x 640	1,755 x 1.004 x 640
Indoor unit dimensions (length x width x height)	mm	1,250 x 750 x 315	1,250 x 805 x 369	1,250 x 805 x 369
Maximum total distance between indoor/outdoor unit (4)	m	50	50	50
Maximum vertical distance indoor/outdoor unit (4)	m	25	25	25
Outdoor unit net weight	kg	172	223	223
Indoor unit net weight	kg	61	71	71

(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.

(4) Check requirements for installing oil separator, according to distance and specific layout.

AVAILABLE OPTIONAL FEATURES

ENERGY SAVING

- Compressor soft-start (depending on models)
- Condensation control by frequency converter or voltage converter

AIR QUALITY

- Gravimetric filter in return G4

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.
- Side intake and discharge (outdoor unit)
- Option of manufacturing units with symmetric configuration (outdoor unit)
- Connections on rear (outdoor unit)
- Indoor unit equipment and accessories painted in RAL 1013 polyester powder coating
- 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
- R407C refrigerant models available on request
- Prepared for disassembly
- Only for split configuration:
 - Oil separator
 - Quick-connect valves with preload of refrigerant gas
- Fireproof filter class M1
- Thermal insulation Euroclass A1 (M0)

- Discharge plenum and return
- Grille discharge plenum and return
- 3 and 5 outlet nozzle plenum
- Condensation evacuation pump

MAINTENANCE

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

REGULATION AND CONTROL

- Electromechanical regulation
- PGD and Mini PGD thermostat
- Alarm signalling
- Smoke detection
- Remote run/stop
- Separate electrical panel
- Option for master-slave operation
- Defrost evaporator fan stop
- 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.