



MOSAIC CAS

CCHIBA 301 + CSTIBA

Heat pump Cassette



inverter



CCHIBA - Split configuration
CSTIBA - Cassette up to 8.1 kW

Flexibility of installation at the service of rehabilitation

Autonomous split system of a centrifugal outdoor unit, and indoor cassette unit with inverter technology, for installation inside the building to be air-conditioned.

MAIN FEATURES

- Cooling capacities up to 8.1 kW
- R-410A refrigerant
- Rotary compressor DC Inverter
- Outdoor and indoor EC fans
- Single-phase 230 V power supply
- To be installed inside the building to be air-conditioned

AVAILABLE VERSIONS

- Heat pump

ADVANTAGES

- High energy efficiency with DC Inverter technology: maximum savings and comfort
- Low sound level
- Great possibilities for adjusting to specific architectonic needs, given its reduced dimensions

APPLICATIONS

- Specially designed for energy rehabilitation in the commercial sector, particularly in small-size business premises (up to 60 m² depending on needs, applications and zones)

REGULATION

Control as standard:

TH TUNE



See regulation and control on page 19.

CCHIBA / CASSETTE MODEL 301 SERIES *Split units*

301		CCHIBA	CSTIBA
CAPACITIES (1)			
Cooling capacity Min-Nom-Max (20-100-110 Hz ~) (1)	kW	1.2 x 7.4 x 8.1	
Heating capacity Min-Nom-Max (20-100-110 Hz ~) (2)	kW	1.3 x 7.5 x 8.3	
SCOP / SEER		4.1 / 4.6	
Class		A / A	
Voltage	V/F/Hz	220-240 / 1 / 50	
Electrical wiring	mm ²	2 x 2.5 + T	2 x 1.5 + T
Interconnection with ambient thermostat		-	BELDEN - 8672 twisted pair + screen
Interconnection between units		BELDEN - 8672 twisted pair + screen	
REFRIGERANT			
Type		R-410A	
Global warming potential (GWP)		2088	
Liquid line cold connection	"	3/8	3/8
Gas line cold connection	"	1/2	5/8
Number of cooling circuits		1	1
Maximum length between units	m/s	30	30
Maximum slope between units	m/s	20	20
(3) Gas charge	kg	3.5	-
COMPRESSOR			
Type		MOTOR DC BRUSHLESS	-
Number of cylinders		2	-
Oil type		Ester VG74	-
Oil volume	ml	650	-
OUTDOOR EXCHANGER			
Type		Coil with aluminium fins and copper pipes	-
Frontal area	m ²	0.372	-
Fin spacing	mm	1.8	-
Pipe diameter	"	5/16	-
OUTDOOR CIRCUIT FAN			
Type		CENTRIFUGAL, DUAL INTAKE	-
Model		10/10 DD	-
Power supply	V	230/1/50	-
Motor rating	kW	0.55	-
Transmission speed		Built-in in the motor	-
Nominal airflow	m ³ /h	2,600	-
Available static pressure	Pa	50	-
Maximum air flow	m ³ /h	3,000	-
Maximum fan speed (8 volts)	rpm	1,014	-

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

(2) Nominal heating conditions. Indoor dry temperature: 20 °C. Outdoor temperature 7 °C. Outdoor wet temperature: 6 °C.

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

EXAMPLE OF AN INSTALLATION WITH INVERTER UNITS

CCHIBA / CASSETTE MODEL 301 SERIES - Split units

301		CCHIBA	CSTIBA
INDOOR EXCHANGER			
Type		-	Coil with aluminium fins and copper pipes
Frontal area	m ²	-	0.360
Fin spacing	mm	-	2.1
Pipe diameter	mm	-	7.2
INDOOR CIRCUIT FAN			
Diameter	mm	-	380
Power supply	V	-	220-240 / 1 / 50
Motor rating	W	-	130
Transmission speed		-	Integrated AC motor (3 speed)
Low airflow	m ³ /h	-	840
Medium airflow	m ³ /h	-	1,000
High airflow	m ³ /h	-	1,200
SOUND LEVEL			
Indoor unit, low speed	db (A)	-	34
Indoor unit, medium speed	db (A)	-	40
Indoor unit, high speed	db (A)	-	50
Outdoor unit	db (A)	70	-
DRAINAGE			
Condensation pump		NO	YES
DIMENSIONS AND WEIGHT			
Length	mm	1,445	830
Width	mm	825	830
Height	mm	504	300
Weight	kg	150	31

AVAILABLE OPTIONAL FEATURES**ACCESSORIES FOR HEAT PUMP UNITS**

- Modbus connection
- Kit for outdoor installation (condenser unit)
- Quick-connect valves with refrigerant preload (condenser unit)
- Condenser filter
- Condenser anti-corrosion treated coil
- Compressor acoustic insulation
- Separate electrical panel
- For the condenser unit:
 - Fireproof filter class M1
 - Thermal insulation Euroclass A1 (M0)

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