



INVERTER SERIES BY HITECSA

inverter

ACVIBA

Heat pump

CCVIBA / ECVIBA

Heat pump



ACVIBA - Compact configuration
CCVIBA / ECVIBA - Split configuration

Inverter High Energy Efficiency at the Service of Energy Rehabilitation in the Commercial Sector

Autonomous, compact and split inverter vertical units suitable for connection to a network of air distribution ducts both on indoor and outdoor units.

MAIN FEATURES

- Maximum cooling capacities ranging from 4.0 to 28.3 kW
- High EER/COP levels
- Scroll compressors in all models
- R-410A refrigerant (split version: delivered with no refrigerant load)

AVAILABLE VERSIONS

- Heat pump

ADVANTAGES

- DC inverter technology: maximum savings and comfort
- Low sound level
- High performance in heat pump for outdoor temperatures as low as -15 °C
- Operating limit in cooling mode with outdoor temperature of 48 °C
- Soft-start of the indoor and/or outdoor fan
- Oil separator (only for split units)
- Remote run/stop
- Remote cooling/heating
- Scheduling function
- Can be combined with the R-CAH 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 through air ducts for commercial premises, offices, small supermarkets

REGULATION

Control as standard:
TH TUNE

Optional control:
PGD

Optional control:
MINI PGD

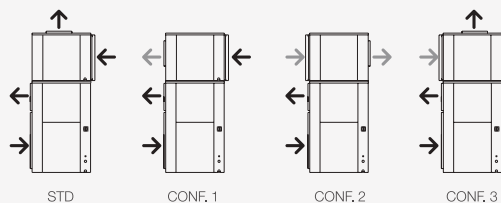


See regulation and control on page 19.

POSSIBLE AIR INLET/OUTLET CONFIGURATIONS

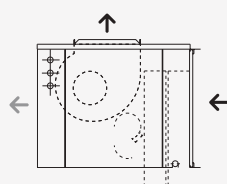
→ Standard
→ Optional

ACVIBA

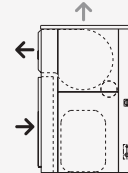


ECVIBA - CCVIBA

ECVIBA 601, 741, 901



CCVIBA 601, 741, 901



ACVIBA SERIES *Compact configuration*

MODEL		601	741	901
Min-Nom-Max Cooling Capacity (1)(3)	kW	4.0 x 13.8 x 18.5	5.2 x 17.7 x 23.9	6.5 x 22.0 x 28.3
Min-Nom-Max Heating Capacity (2)(3)	kW	4.2 x 13.9 x 19.8	4.5 x 17.8 x 25.8	7.0 x 22.2 x 30.2
EER (20 - 80 - 120 Hz ~)		2.90 x 2.60 x 2.50	2.86 x 2.56 x 2.45	2.96 x 2.54 x 2.44
COP (20 - 80 - 120 Hz ~)		2.95 x 2.62 x 2.52	2.94 x 2.69 x 2.55	2.99 x 2.64 x 2.54
Seasonal cooling energy efficiency / η _{s, c}	%	130	129.9	129.8
Seasonal heating energy efficiency / η _{s, h}	%	119.5	117.9	117.3
Power supply (50 Hz ~)	V	400.3 + N	400.3 + N	400.3 + N
Gas charge	kg	6.5	7.5	9.5
Indoor air temperature	m ³ /h	2,700 / 3,200 / 4,000	3,200 / 3,800 / 4,800	3,900 / 4,650 / 5,900
Max. int. airflow - static pressure	m ³ /h - Pa	4,000 - 70	4,800 - 75	5,900 - 90
External airflow (max-min)	m ³ /h	7,300 - 3,500	7,800 - 3,600	11,150 - 4,600
Available nominal static pressure	Pa	50	50	50
Dimensions (length x width x height)	mm	1,130 x 800 x 1,900	1,130 x 800 x 1,900	1,700 x 870 x 1,900
Net weight	kg	400	470	600

CCVIBA SERIES *Split configuration / Outdoor unit*

MODEL		601	741	901
Min-Nom-Max Cooling Capacity (1)(3)	kW	4.0 x 13.8 x 18.5	5.2 x 17.7 x 23.9	6.5 x 22.0 x 28.3
Min-Nom-Max Heating Capacity (2)(3)	kW	4.2 x 13.9 x 19.8	4.5 x 17.8 x 25.8	7.0 x 22.2 x 30.2
EER (20 - 80 - 120 Hz ~)		2.90 x 2.60 x 2.50	2.86 x 2.56 x 2.45	2.96 x 2.54 x 2.44
COP (20 - 80 - 120 Hz ~)		2.95 x 2.62 x 2.52	2.94 x 2.69 x 2.55	2.99 x 2.64 x 2.54
Seasonal cooling energy efficiency / η _{s, c}	%	130	129.9	129.8
Seasonal heating energy efficiency / η _{s, h}	%	119.5	117.9	117.3
Power supply (50 Hz ~)	V	400.3 + N	400.3 + N	400.3 + N
(4) Gas charge (including 0 m line)	kg	6.5	7.5	9.5
Cold connection. Liquid line	Ø (")	1/2	5/8	5/8
Cold connection. Gas line	Ø (")	7/8	1 1/8	1 1/8
External airflow (max-min)	m ³ /h	7,300 - 3,500	7,800 - 3,600	11,150 - 4,600
Available nominal static pressure	Pa	50	50	50
Dimensions (length x width x height)	mm	1,130 x 800 x 1,250	1,130 x 800 x 1,250	1,700 x 870 x 1,250
Net weight	kg	260	320	390

(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) Maximum frequency is 120 Hz ~. Nominal frequency is 80 Hz ~.

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

ECVIBA SERIES *Split configuration / Outdoor unit*

MODEL		601	741	901
Min-Nom-Max Cooling Capacity (1)(3)	kW	4.0 x 13.8 x 18.5	5.2 x 17.7 x 23.9	6.5 x 22.0 x 28.3
Min-Nom-Max Heating Capacity (2)(3)	kW	4.2 x 13.9 x 19.8	4.5 x 17.8 x 25.8	7.0 x 22.2 x 30.2
Power supply (50 Hz ~)	V	400.3 + N	400.3 + N	400.3 + N
Cold connection. Liquid line	Ø (")	1/2	5/8	5/8
Cold connection. Gas line	Ø (")	7/8	1 1/8	1 1/8
Indoor air temperature	m³/h	2,700 / 3,200 / 4,000	3,200 / 3,800 / 4,800	3,900 / 4,650 / 5,900
Max. int. airflow - static pressure	m³/h - Pa	4,000 - 70	4,800 - 75	5,900 - 90
Dimensions (length x width x height)	mm	1,130 x 800 x 650	1,130 x 800 x 650	1,700 x 870 x 650
Net weight	kg	140	150	210

(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) Maximum frequency is 120 Hz ~. Nominal frequency is 80 Hz ~.

AVAILABLE OPTIONAL FEATURES**ENERGY SAVING**

- Option of mixing module for semi-enthalpy freecooling with two dampers

**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**

- Option of manufacturing units with symmetric configuration
- Kit for outdoor installation
- Uprated motors
- Anti-freeze trace heater for condensate
- Heating coils for hot water
- Electric heater as backup in defrosting
- Anti-corrosion treated coils
- Prepared for disassembly
- Fireproof filter class M1
- Thermal insulation Euroclass A1 (M0)
- Only for split configuration:
 - Quick-connect valves with preload of refrigerant gas

**MAINTENANCE**

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

**REGULATION AND CONTROL**

- Alarm signalling
- Smoke detection
- Separate electrical panel
- Ambient temperature or wall-mounted sensor
- Discharge temperature sensor
- Centralised comprehensive management operation
- Operation without neutral
- Modbus connection

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