MOSAIC HE
INVERTER SERIES BY HITECSA

ACVIBA HE
Heat pump

CCVIBA HE / ECVIBA HE
Heat pump

inverter

ECODESIGN HITECSA COOL AIR ErP READY

R-410A

ACVIBA HE- Compact configuration
CCVIBA HE / ECVIBA HE - Split configuration

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

Autonomous, compact and split inverter vertical units with plug fans in condensation and evaporation, 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
- Plug fans in condensation and evaporation for maximum seasonal efficiency.
- 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
- Oil separator (only for split units)
- Remote run/stop
- Remote cooling/heating
- Scheduling function
- 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 through air ducts for commercial premises, offices, small supermarkets

REGULATION

Control as standard: **TH TUNE**

Optional control: **PGD**

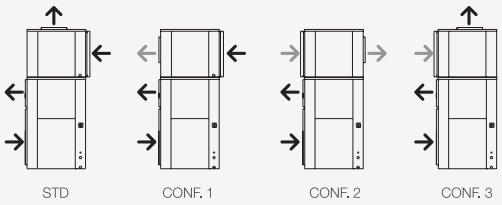
Optional control: **MINI PGD**

See regulation and control on page 19.

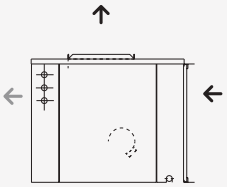
POSSIBLE AIR INLET/OUTLET CONFIGURATIONS

→ Standard
→ Optional

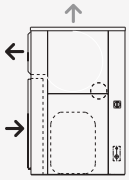
ACVIBA HE



ECVIBA HE



CCVIBA HE



ACVIBA HE SERIES *Compact configuration*

MODEL		17	22	27
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 / ηs, c	%	146.5	146.2	145.7
Seasonal heating energy efficiency / ηs, h	%	128.5	127.2	126.7
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 - consult	4,800 - consult	5,900 - consult
External airflow (max-min)	m^3/h	4,840 - 2,320	5,260 - 2,520	7,150 - 3,430
Available static pressure	Pa	Consult	Consult	Consult
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 HE SERIES *Split configuration / Outdoor unit*

MODEL		17	22	27
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 / ηs, c	%	146.5	146.2	145.7
Seasonal heating energy efficiency / ηs, h	%	128.5	127.2	126.7
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	4,840 - 2,320	5,260 - 2,520	7,150 - 3,430
Available static pressure	Pa	Consult	Consult	Consult
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: 27ºC. Indoor wet temperature: 19ºC. Outdoor temperature: 35ºC.
(2) Nominal heating conditions. Indoor dry temperature: 20ºC. Outdoor temperature: 7ºC. Outdoor wet temperature: 6ºC.
(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 HE SERIES *Split configuration / Indoor unit*

MODEL		17	22	27
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	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 - consult	4,800 - consult	5,900 - consult
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: 27ºC. Indoor wet temperature: 19ºC. Outdoor temperature: 35ºC.
(2) Nominal heating conditions. Indoor dry temperature: 20ºC. Outdoor temperature: 7ºC. Outdoor wet temperature: 6ºC.
(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.