



inverter

ACHIBA HE

Heat pump

CCHIBA HE / ECHIBA HE

Heat pump



ACHIBA HE - Compact configuration
CCHIBA HE / ECHIBA HE - Split configuration

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

Autonomous, compact and split horizontal inverter 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 3.8 to 26.5 kW
- Plug fans in condensation and evaporation for maximum seasonal efficiency.
- 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
- 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

ACHIBA HE

ACHIBA 17, 22

ACHIBA 27

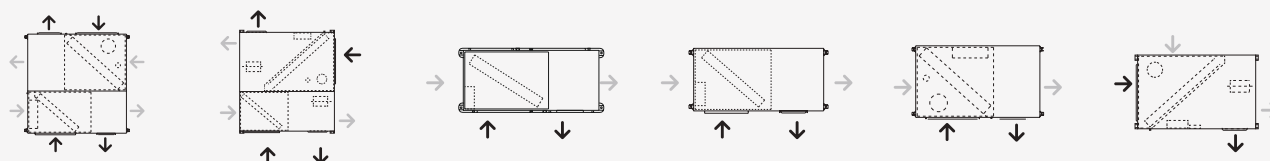
ECHIBA HE / CCHIBA HE

ECHIBA 17, 22

ECHIBA 27

CCHIBA 17, 22

CCHIBA 27

ACHIBA HE SERIES *Compact configuration*

MODEL		17	22	27
Min-Nom-Max Cooling Capacity (1)(3)	kW	3.8 x 12.9 x 17.3	4.9 x 16.6 x 22.4	6.2 x 20.6 x 26.5
Min-Nom-Max Heating Capacity (2)(3)	kW	4.0 x 13.0 x 18.6	5.2 x 15.7 x 24.2	6.7 x 20.4 x 28.9
EER (20 - 80 - 120 Hz ~)		2.87 x 2.51 x 2.40	2.83 x 2.53 x 2.27	2.93 x 2.42 x 2.22
COP (20 - 80 - 120 Hz ~)		2.92 x 2.52 x 2.47	2.91 x 2.64 x 2.50	2.83 x 2.35 x 2.17
Seasonal cooling energy efficiency / η _{s, c}	%	139.3	138.6	137.6
Seasonal heating energy efficiency / η _{s, h}	%	125.9	125.5	125.1
Power supply (50 Hz ~)	V	400.3 + N	400.3 + N	400.3 + N
Gas charge	kg	6.3	7.2	9.4
Indoor airflows in cooling	m ³ /h	2,300/2,800/3,600	3,000/3,600/4,600	3,700/4,400/5,600
Indoor airflows in heating	m ³ /h	2,300/2,800/3,600	3,000/3,600/4,600	3,700/4,400/5,600
Max. int. airflow - static pressure	m ³ /h - Pa	3,600 - consult	4,600 - consult	5,500 - consult
External airflow (max-min)	m ³ /h	5,570 - 2,670	6,200 - 3,000	7,570 - 3,590
Available static pressure	Pa	Consult	Consult	Consult
Dimensions (length x width x height)	mm	1,755 x 1,697 x 640	1,755 x 1,697 x 640	1,998 x 1,755 x 672
Net weight	kg	375	420	495

CCHIBA HE SERIES *Split configuration / Outdoor unit*

MODEL		17	22	27
Min-Nom-Max Cooling Capacity (1)(3)	kW	3.8 x 12.9 x 17.3	4.9 x 16.6 x 22.4	6.2 x 20.6 x 26.5
Min-Nom-Max Heating Capacity (2)(3)	kW	4.0 x 13.0 x 18.6	5.2 x 15.7 x 24.2	6.7 x 20.4 x 28.9
EER (20 - 80 - 120 Hz ~)		2.87 x 2.51 x 2.40	2.83 x 2.53 x 2.27	2.93 x 2.42 x 2.22
COP (20 - 80 - 120 Hz ~)		2.92 x 2.52 x 2.47	2.91 x 2.64 x 2.50	2.83 x 2.35 x 2.17
Seasonal cooling energy efficiency / η _{s, c}	%	139.3	138.6	137.6
Seasonal heating energy efficiency / η _{s, h}	%	125.9	125.5	125.1
Power supply (50 Hz ~)	V	400.3 + N	400.3 + N	400.3 + N
(4) Gas charge (including 0 m line)	kg	6.3	7.2	9.4
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	5,570 - 2,670	6,200 - 3,000	7,570 - 3,590
Available static pressure	Pa	Consult	Consult	Consult
Dimensions (length x width x height)	mm	1,755 x 1,004 x 640	1,755 x 1,004 x 640	1,750 x 1,057 x 662
Net weight	kg	240	295	312

(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.

ECHIBA HE SERIES *Split configuration / Indoor unit*

MODEL		17	22	27
Min-Nom-Max Cooling Capacity (1)(3)	kW	3.8 x 12.9 x 17.3	4.9 x 16.6 x 22.4	6.2 x 20.6 x 26.5
Min-Nom-Max Heating Capacity (2)(3)	kW	4.0 x 13.0 x 18.6	5.2 x 15.7 x 24.2	6.7 x 20.4 x 28.9
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 airflows in cooling	m ³ /h	2,300 / 2,800 / 3,600	3,000 / 3,600 / 4,600	3,700 / 4,400 / 5,500
Indoor airflows in heating	m ³ /h	2,300 / 2,800 / 3,600	3,000 / 3,600 / 4,600	3,700 / 4,400 / 5,500
Max. int. airflow - static pressure	m ³ /h - Pa	3,600 - consult	4,600 - consult	5,500 - consult
Dimensions (length x width x height)	mm	1,755 x 752 x 640	1,755 x 752 x 640	1,750 x 900 x 662
Net weight	kg	145	150	180

(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 ~.



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.