VIVAX

# Catalogue of air conditioners **2023**



# **Description of functions** for VIVAX air conditioners

## ENERGY SAVING

### ECO mode
The new VIVAX air conditioners in ECO mode save an additional 60 % through eight-hour mode.

### 0.5 W / 1.0 W Standby
Air conditioner in standby mode consumes 0.5 W / 1.0 W of energy per day.

### Night mode
The temperature automatically rises or falls slightly to maintain a comfortable room temperature and to reduce energy consumption at the same time.

### Energy saving mode
This function helps the air conditioner to provide enough cooling power without the need to run at full capacity.

## HEALTH

### Biofilter
It is composed of special biological enzyme and eco filters that trap dust, neutralise and destroy bacteria, fungi and microbes.

### Catalyst filter
It eliminates toxic gases and unpleasant odours.

### Dust filter
Mesh dust filters help to stop dust particles in the air conditioner, thus improving the air quality in the room.

### Nano Aqua Sterilisation
Ionizer that releases positive and negative ions to sterilise the air in the room with the efficiency of 97.5 %.

### Self-cleaning
The indoor unit will continue to work to dry and clean the remaining condensate.

### Ionizer
It releases negative ions, eliminates unpleasant odours, dust, smoke and pollen. Provides fresh and clean air.

### Sterilisation at 56 °C
Sterilisation of the Indoor unit at 56 °C.

### UV light
UV light destroys particles such as bacteria, fungi, spores, mould and viruses in the UV spectrum.

## RELIABILITY

### The protective cover of the valve
The protection of connecting valves on the outdoor unit prevents dripping of the condensed water and protects the valves from external influences.

### Intelligent defrosting
If it is necessary, defrosting is activated automatically. It improves the efficiency of the device when heating and saves energy.

### Error detection and display
It displays a description of the error to solve the problem faster and easier.

### Refrigerant leak detection sensor
The indoor unit will display an "EC" error and will automatically stop working if refrigerant leaks to prevent damage to the compressor.

### 100 % capacity at -15 °C
Despite the low temperatures, the device works at 100 % capacity.

### Cooling in extreme conditions
Allows the device to operate in cooling mode at low outdoor temperatures.

### Operation at low voltage
Ability to work in low voltage conditions.

### PTC compressor and condenser heaters
Additional heaters, one of which is used to reheat the oil in the compressor and the other improves the defrosting of the outdoor unit. Heater operation is controlled via the main processor. This method of control enables uninterrupted and safe operation of the devices when the outside temperature reaches up to -32 °C.

### Emergency function
In the case of the temperature sensor error, the ordinary air conditioner will display an error and stop operating while the VIVAX air conditioner will continue to operate, if necessary.

### Heating in extreme conditions
The device can be used for room heating at low outdoor temperatures with high efficiency.

### 3D DC Inverter
The inverter fan motor of the indoor and outdoor unit empowers the VIVAX air conditioners to provide best-in-class performance.

### Wi-Fi ready
The air conditioner has the ability to expand the functions by purchasing a Wi-Fi module that connects to a home wireless network.

### I Feel function
The device automatically adjusts the temperature to the desired level with the help of an additional sensor on the remote control.

### Manual control
The air conditioner can be easily turned on or off by pressing a button located on the outside of the indoor unit.

### Self-evaporating system
The system automatically returns condensed water from the evaporator to the condenser and conducts it in the form of water vapour through the exhaust hose outside the room.

### Mono and multi compatibility
The indoor unit is compatible with mono and multi-system.

### Silent operation
Possibility to turn off the sound signal when operating the air conditioner for a more comfortable atmosphere.

### 3 air flow speeds
Possibility to select the fan speed of the indoor unit.

### Two-way condensate drain hose
A drain hose can be installed on both sides of the indoor unit, making installation easier.

### Heating at 8 °C / 10 °C
Protection against subcooling below 8 °C / 10 °C.

### Auto swing
If the system has an automatic exhaust, then its louvers move up and down on their own.

### 3D air flow
It uses automatic horizontal and vertical movements of the louver to ensure equal air distribution throughout the room.

### Louver position pemory
The air deflectors will automatically return to the position they were in when the air conditioner was turned off.

### Condensate drain pump
Condensate drain pump from the Indoor unit.

### 12 air flow speeds
12 automatic fan speeds of the indoor unit.

### Humidity control
Smart sensors control the temperature and humidity from 35 % to 85 %.

### Automatic operating mode
By selecting this function, the air conditioner automatically sets the fan speed of the Indoor unit and the operating mode, comparing the set temperature and current room conditions.

### Wired control device
The wired control device is installed in a fixed position on the wall.

### Motion detector
With a built-in motion detector, the exhaust adapts to your own wishes and needs.

### Multi-directional wheels
Built-in multi-directional wheels on mobile air conditioners make it easier to move the device.

### Last mode memory
The air deflectors will automatically return to the position they were in when the air conditioner was turned off.

### 360° air flow
It enables air to reach every corner of the room with individual air exhaust control from all sides of the air conditioners.

### Timer
The timer enables the air conditioner to start and stop within 24 hours.

### Strong air flow
Air exhaust range up to 20 m.

### Smart airflow
In heating mode the air conditioner blows warm air vertically down to the floor, while in cooling mode the air conditioner blows cold air horizontally up into the ceiling.

### Turbo
Function for the powerful heating or cooling of the room.

### Soft start
It protects the air conditioner from high electricity voltage during start-up.

### Digital display
Hidden digital display.

### Whisper air
Quiet operation of the air conditioner.

### Wi-Fi control
The air conditioner has a Wi-Fi module that connects to a home wireless network and connects to a mobile application.

# Outdoor unit

## 1 Improved fan and air exhaust duct

Based on natural models and bionic principles, VIVAX fan blade design effectively reduces airflow resistance and noise. Together with the optimized air duct, it delivers the same volume of air flow with 30 % lower energy consumption.

## 2 Inverter control panel

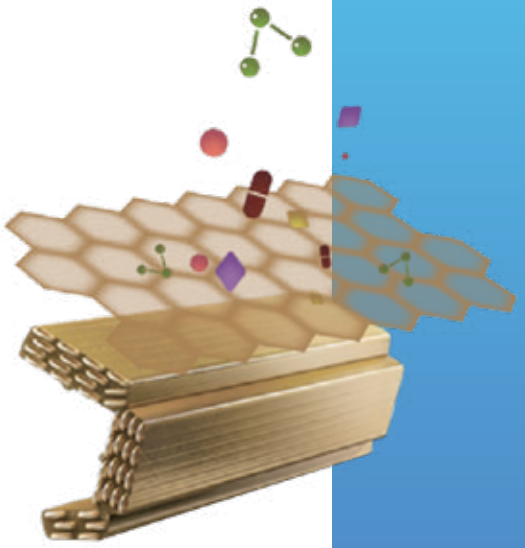
The V-PAM inverter control panel reduces the effects of magnetic circle and increases the maximum speed and efficiency of the compressor using vector control technology. This technology achieves further miniaturisation, greater efficiency and better performance.

## 3 Inner hose of the heat exchanger

A more densely serrated shape was applied to the tubular copper parts to increase the heat exchange area. The latest heat exchanger has increased number of teeth from 45 to 54, further improving the efficiency of heat transfer.


## 4 Twin rotary compressor

The twin rotary compressor is a system that rotates at a symmetrical angle of 180° ensuring low vibration and noise due to low torque.



# **Golden Fin** technology

The VIVAX air conditioner equipped with Golden Fin technology is more resistant to rust caused by moisture, accelerates the defrosting cycle of the outdoor unit, harder to attract grease, oxidative and other corrosive substances than Blue Fin technology commonly used to protect heat exchangers in air conditioners.

## VIVAX TECHNOLOGY FOR HEALTH

The ionizer in VIVAX air conditioners ionizes the air releasing positive and negative ions for air sterilization with an efficiency of up to 97.5 %. During ionization, the particles in the air become heavier and fall to the ground, after which they are easily cleaned. This process allows breathing cleaner air from which pollutants, allergens, bacteria and viruses are removed, and thus at the same time increases blood oxygen levels, improves metabolism, concentration and alertness.


## HIGHEST ENERGY EFFICIENCY CLASS IN HEATING AND COOLING

With VIVAX air conditioners, it could be enjoyed both heating and cooling your home with the highest energy efficiency class, while saving significantly. Among the VIVAX air conditioners, you can find devices that maintain a 100 % operating capacity of down to -15 °C. This means that even at such a low temperature, you will get up to 5.3 kW of heating energy for 1 kW of electricity consumed.

# 3D Inverter

Top performance for endless challenges. The exclusive inverter compressor and fan inverter motor technology of indoor and outdoor units empowers VIVAX air conditioners to provide best-in-class performance, power, efficiency, speed and stability in all conditions throughout the life cycle of the unit.

## WI-FI AIR CONDITIONER CONTROL

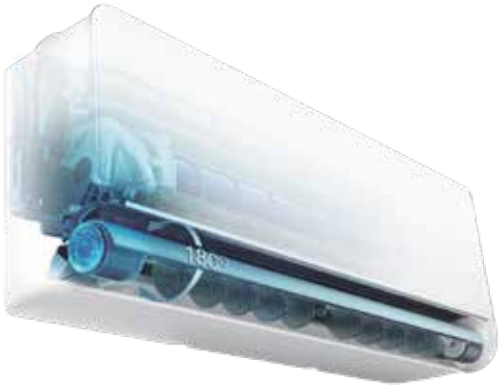
Ability to access the VIVAX air conditioner at any time and from anywhere, thanks to the built-in Wi-Fi module and the VIVAX exclusive air conditioning control application. One touch on the mobile device selects the desired temperature - in the summer months you enter a perfectly cooled home, and in the winter in an optimally heated space. In addition to switching on and off, a timer can be set via the mobile app, find out in which mode the air conditioner is operating or a potential malfunction can be diagnosed.

Available on the App Store | GET IT ON Google play

## PEACEFUL SLEEP WITH QUIET WORK

Enjoy pleasant and quiet nights with minimal noise up to 18.4 dB.


| | Model | ACP-12CH35AEHI+ R32 | ACP-18CH50AEHI+ R32 |
|---|---|---|---|
| Cooling | Capacity (W) | 3517 (1319~4308) | 5275 (1817~6007 ) |
| | Energy efficiency class | A+++ | A++ |
| | Energy Efficiency SEER | 8.5 | 6.3 |
| | Cooling operating range | -15 °C ≤ T ≤ 50 °C | -15 °C ≤ T ≤ 50 °C |
| | Estimated load on cooling (W) | 3500 | 5300 |
| | Power input (W) | 900 (130~1650) | 1600 (140~2300) |
| Heating | Capacity (W) | 3810 (879~4396) | 5569 (1260~6008) |
| | Energy efficiency class | A++ | A+ |
| | Energy Efficiency SCOP | 4.6 | 4.1 |
| | Heating operating range | -25 °C ≤ T ≤ 24 °C | -20 °C ≤ T ≤ 240 °C |
| | Estimated load on heating (W) | 2500 | 4100 |
| | Power input (W) | 950 (120~1500) | 1680 (220~2350) |
| Indoor unit | Air flow (m³ / h) - HI / MID / LOW | 700 / 515 / 425 | 750 / 530 / 430 |
| | Dehumidifying capacity (L / h) | 1.2 | 1.8 |
| | Noise - Sound Pressure (dB (A)) - HI / MID / LOW | 40 / 32.5 / 21.5 / 19 | 41.5 / 36.5 / 33.5 / 19 |
| | Sound power level (dB) | 53 | 54 |
| | Packaging dimensions (mm) | 1005 x 385 x 295 | 1005 x 385 x 295 |
| | Product dimensions (mm) | 920 x 321 x 211 | 920 x 321 x 211 |
| | Gross / net weight (kg) | 14.16 / 11.30 | 14.4 / 11.30 |
| Outdoor unit | Noise - Sound Pressure (dB (A)) | ≤ 53.5 | ≤ 54.5 |
| | Sound power level (dB) | ≤ 62 | ≤ 63 |
| | Refrigerant | R32 | R32 |
| | Bracket distance (mm) | 452 | 511 |
| | Packaging dimensions (mm) | 887 x 337 x 610 | 915 x 370 x 615 |
| | Product dimensions (mm) | 765 x 303 x 555 | 805 x 330 x 554 |
| | Gross / net weight (kg) | 28.8 / 26.4 | 36.1 / 33.5 |
| Connections | Liquid phase pipe diameter | 1 / 4" | 1 / 4" |
| | Gas phase pipe diameter | 3 / 8" | 1 / 2" |
| | Maximum pipe length (m) | 25 | 30 |
| | Maximum height difference (m) | 10 | 20 |
| | Pre-filled pipe length (m) | 5 | 5 |
| | Gas refill (g / m) | 12 | 12 |
| Power Supply | Power interconnect cable (mm²) | 1.5 x 5 | 1.5 x 5 |
| | Power Supply IU / OU 220-240 V / 1 / 50 Hz (mm²) | 1.5 x 3 | 1.5 x 3 |

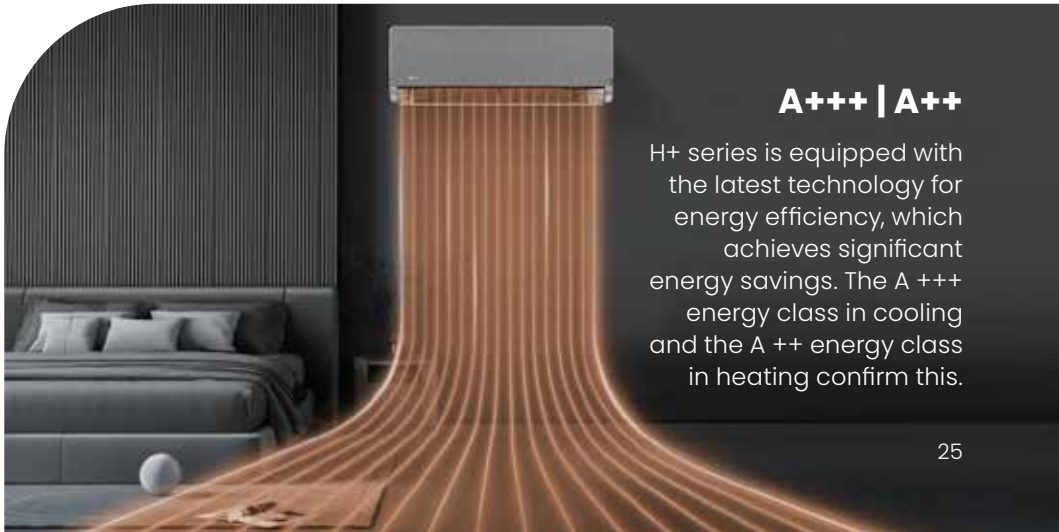


# Smart airflow

The innovative 180° wing movement allows air to flow in the horizontal or vertical direction. This option allows you to never feel the direct airflow towards you.

**HORIZONTAL AIRFLOW**

**VERTICAL AIRFLOW**



**A+++ | A++**

H+ series is equipped with the latest technology for energy efficiency, which achieves significant energy savings. The A +++ energy class in cooling and the A ++ energy class in heating confirm this.