

# COMPANY PROFILE

**Residential Air-Conditioning, | Commercial  
Air-Conditioning and Refrigeration, | Control  
Automation | Licensed Electrical Contractors |  
Cold Storage Facilities |  
Cool Room & Freezer Sales & Service**



## ABOUT US

Established in 2010, India Aircon specializes in air-conditioning, refrigeration, and electrical/cms/ network contracting for new projects. Focused on customer satisfaction, we provide exceptional after-sales support, quality installations, and reliable services. Catering to diverse sectors, we offer comprehensive air conditioning solutions, including supply, AMC, and installation of tailored units and chiller packages.

### Core Value:

- Prioritizing clients' needs with exceptional after-sales support, quality installations, and reliable services
- Exceeding expectations through tailored air conditioning solutions across diverse sectors

**Mission :** We aim to be the leading engineering partner, providing tailored solutions while focusing on innovation, customer satisfaction, and quality.

**Vision:** India Aircon aims to be the top engineering company in air-conditioning, delivering exceptional support, quality, and reliability. We strive to be the trusted partner across sectors, providing innovative solutions for success.





## OUR CAPABILITIES

### Air Conditioning

- Commercial Air Conditioning – Design, sales, service, installation.
- Domestic Air Conditioning – Design, sales, service, installation.
- Ground Sourced Heat Pumps – Design, sales, service, installation.
- We offer planned maintenance and breakdown service for all your air conditioning needs to ensure you are running smoothly.

### Refrigeration

- Commercial Refrigeration – Design, manufacture, sales, service, installation.
- Industrial/commercial specialized refrigeration process cooling and automation.
- Specialised environment applications, laboratories, health facilities, clean rooms etc.
- Refrigeration and dehumidification projects for primary producers and processing facilities.
- We offer planned maintenance and breakdown service for all your commercial & industrial refrigeration needs to ensure you are running smoothly.

### Electrical

- Licenced Electrical Contractors.
- General installation and repairs – Commercial, Industrial and Residential.
- Process automation and control, Building management systems.
- Emergency Lighting.
- Planned Maintenance Services.
- Thermal Imaging.



## SERVICE & MAINTENANCE

We understand how important it is that everything in your business keeps running smoothly. We have an extensive client base and service a large range of equipment from domestic to large commercial air conditioning and commercial cold store installations.

We recognise our clients' need for reliability of service and structure our maintenance programmes accordingly. Our comprehensive maintenance plans allow you to budget on a fixed monthly amount for all equipment breakdown and maintenance services. This protects you from expensive equipment failure and the resulting cash flow problems associated.



Feel the touch of excellence with India Aircon's superior HVAC system design and execution work.



India Aircon provides extraordinary services

# HVAC/AIR CONDITIONING TRUNKEY PROJECT

- Central Air Conditioning Products
- Best quality Air Handling Unit [AHU]
- Best quality Dehumidifier
- Air Filtration System
- Chillers
- VRF / VRV System Ducted Ac System and advanced & extra ordinary HVAC Product range

## SERVICE & REPAIR

Are you tired of feeling too hot in the summer and too cold in the winter? Look no further than ABC Heating & Air Conditioning, your trusted source for expert HVAC service and repair!



**HVAC SYSTEM MAINTENANCE**



**HVAC SYSTEM REPAIR**



## TRUSTED BRANDED AIR HANDLING UNIT

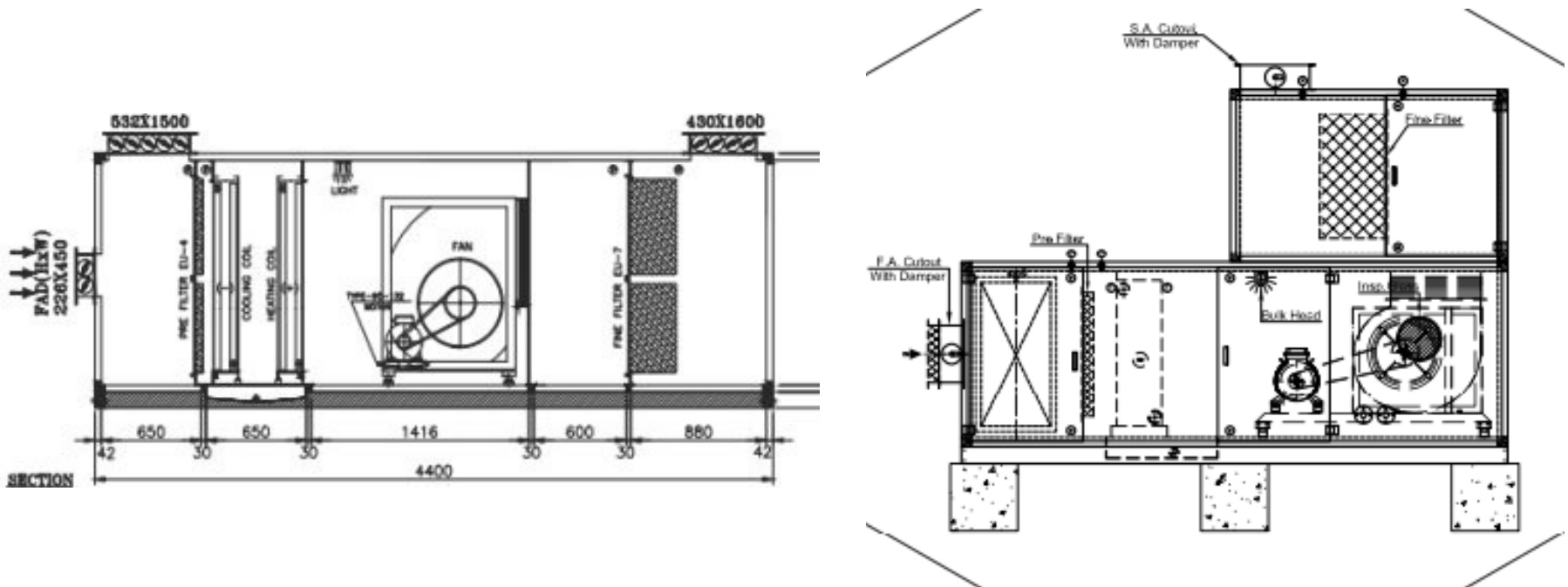
### Features

- Superior design
- Precise workmanship
- Unique gasket arrangement
- Food grade rubber gasket
- Double skin construction
- Plug fans or DIDW fans
- Unique design filter frame
- Energy efficient fan and motor
- Low maintenance
- Highly reliable JZ
- Standard & tailor made designs
- Low leakage dampers
- Available in vertical or low height loft mounting design to suit site conditions
- These units are designed to offer customized solutions to suit requirements ranging CFM.



### Description

- An Air Handling Unit is used to re-condition and circulated air part of heating, ventilating and air-conditioning system.
- The basic function of the AHU is to take in outside air, re-condition it and supply it as fresh air to a building.
- Depending on the required temperature of the re-conditioned air, the fresh air is either heated by a recovery unit or heating coil or cooled by a cooling coil.



**These products are used in pharmaceutical companies, modular OT, clean room area, industrial area, process cooling application and production area**



# CHILLER

## Features

- Wide range [As Per Customer Requirement].
- Large tonnage capabilities
- Longer Life
- Rapid cooling mode
- Air Cooled & water cooled both option.
- Quick restart / Silent operation
- Wide temperature operating range
- Touch screen option
- Attractive return on investment .
- Demand control mode
- Easy and quick installation
- ASME stamp option
- Eco-friendly



## Types of Chillers

### Scroll Chillers

- Air Cooled & water cooled Scroll Chiller
- Inverter Scroll Chiller

### Centrifugal Chillers

- Water cooled centrifugal Chiller
- Configured Oil-free Chiller

### Screw Chillers

- Water cooled screw chillers with variable frequency drives
- Water cooled screw chillers configured series
- Air-cooled configured screw chillers high efficiency series
- Air-cooled VFD screw chillers

## Description

- India Aircon has comprehensive range a chillers is poised to power up various mechanical cooling process application across to different industries.
- Our Process chillers, centrifugal chillers, Scroll chillers and Screw chillers are a testament to our unmatched engineering capability.
- They are an ideal choice for commercial , industrial and institutional HVAC applications.
- India Aircon is the pioneer and a leading provider of integrated end to end solution in the field of electro mechanical.
- We are committed to our customer that technology suits their needs and have introduced a wide variety of different types of chillers.

**These products are used in industrial areas and many more as per customer needs**



## DX UNIT

### Features

- Air cooled & water cooled both option.
- Dx type inverter & non-inverter ODUs.
- VRF type inverter ODUs.
- Air/Water cooler chiller condensing units
- Microprocessor-based controllers.
- Auto-restart after power is resumed.
- Compact Design.
- Suitable for multi-tenant applications.
- Phase wise Investment option.
- Enhanced Aesthetics.
- Good Relative Humidity Control.
- Flexible Application.



### Description

- A DX unit uses refrigerant-based cooling and cools indoor air using a condensed refrigerant liquid.
- Direct Expansion means that the refrigerant expands to produce the cooling effect in a coil that is in direct contact with the conditioned air that will be delivered to the space.
- The DX unit uses a refrigerant vapor expansion and compression cycle to cool air coming in through a supply plenum and returns it to the area that needs cooling through the return.
- This central air conditioning system comes in either a split-system or a packaged unit.
- In a split system the components are separated with the evaporator located in an indoor cabinet and the compressor and condenser located in an outdoor cabinet.
- A packaged unit has the entire cooling system self-contained in one unit, with the evaporator coil, condenser, and compressor all located in one cabinet.
- This allows for flexibility in the installation since the unit can be either outside or indoors (depending on system specifications) without too large of a footprint.

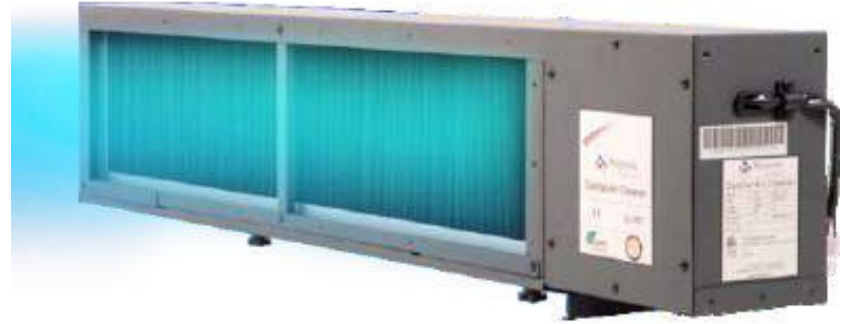
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## AIR FILTRATION SYSTEM

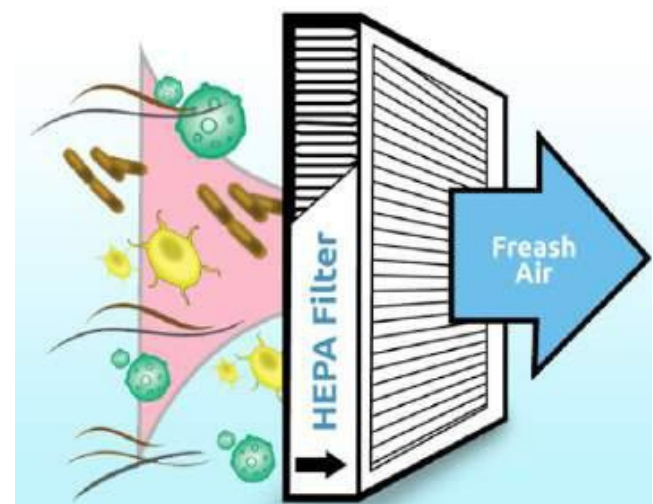
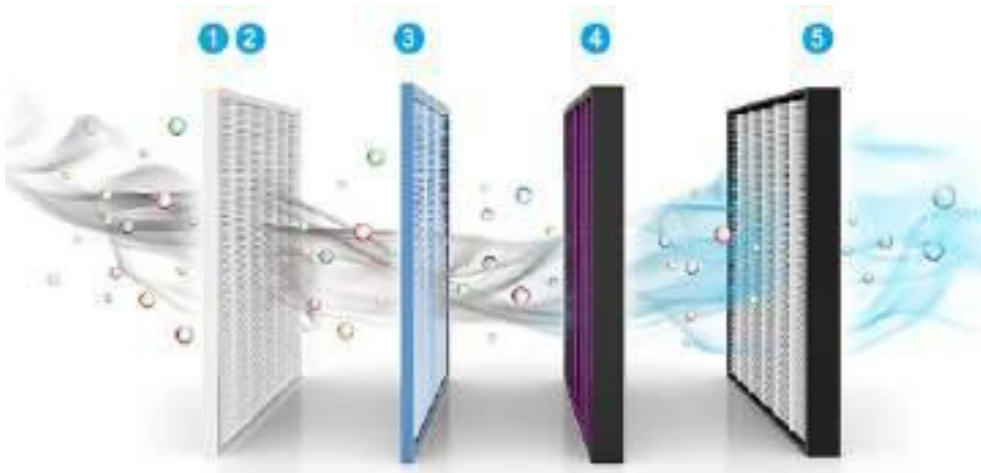
### Features

- Complete clean air
- Filter less magnetic technology
- No extra or recurring cost
- Easy installation and maintenance
- High Energy efficiency
- Lower cost and greater environmental sustain ability.
- Return on investment



### Description

- Air filtration technique can remove air pollutants and effectively alleviate the deterioration of indoor air quality.
- It evaluated different air filtration technologies by considering factors such as air quality improvement, filtration performance, energy and economic behavior, thermal comfort and acoustic impact.
- An advanced air filtration technology that works on a micro-trapping process harnessing the combined effects of impingement, polarization, and agglomeration.
- A dual polarity is created through an underlying dielectric mesh, trapping very fine particles and neutralizing bio-aerosols from the air.
- It is a “Trap and Kill” process that removes PM 2.5, disease-causing germs, and allergens in recirculating systems at exceptionally high efficiency without any recurring costs.
- Advanced filtration system for HI-POLUTED area.



**These products are used in offices, residencies, commercial are and industrial area.**



## DEHUMIDIFIER

### Features

- Electric, steam, direct or indirect fired gas reactivation.
- Easy to service desiccant rotor.
- Chain driven desiccant rotor for a lifetime of reliable performance
- Hinged access doors with air handler style handles for easy inspection, cleaning, and maintenance
- Variable frequency drives
- Allen Bradley PLC based controls for simple reliable operation
- Hinged filter access doors with quick release fasteners
- Circuit breakers (not fuses) for over-current protection
- UL 508A certified electrical panels
- 0.125" thick aluminum welded cabinet specially designed to prevent moisture infiltration and leakage



### Description

- A dehumidifier is an electrical appliance which reduces and maintains the level of humidity in the air, usually for health or comfort reasons, or to eliminate musty odor and to prevent the growth of mildew by extracting water from the air.
- It can be used for household, commercial, or industrial applications.
- Large dehumidifiers are used in commercial buildings such as indoor ice rinks and swimming pools, as well as manufacturing plants or storage warehouses.

### Types of Dehumidifier

#### Desiccant Dehumidifier

- Desiccant dehumidifiers (known also as absorption dehumidifiers) bond moisture with hydrophilic materials such as silica gel.
- Cheap domestic units contain single-use hydrophilic substance cartridges, gel, and powder.
- Larger commercial units contain hot air recovery systems in order to remove humid air from outside the room.

#### Condensate Dehumidifier

- Condensate dehumidifiers use a refrigerator to collect water known as condensate, which is normally grey water but may at times be reused for industrial purposes. Some manufacturers offer reverse osmosis filters to turn the condensate into potable water.
- Some designs, such as the ionic membrane dehumidifier, dispose of water as a vapour rather than liquid.

**These products are used in industrial area , pharmaceutical company and many more as per customer needs**



# INVERTER / NON INVERTER DUCTED PACKAGE AC SYSTEM

## Features

- High energy efficiency scroll compressor / inverter compressor
- Service friendly design
- Robust and reliable
- Long refrigerant piping in inverter ducted machine
- High ambient temperature operation up to 52 c wide voltage range operation
- Touch screen controller in inverter ducted system.
- Anti-corrosion condenser in coating.



## Description

- Success at research facilities and factories often hinges on strict control of air temperature and quality.
- To these environments, India Aircon offers an abundant range of packaged air conditioners for precise control of air and temperature to help preserve accurate results and product quality.

## Technology

### Inverter Technology

- Air conditioner compressors are driven by motor, and motor rotation speed depends on power supply frequency.
- An inverter modulates power supply frequency to control motor rotation speed.
- Inverter stabilize temperature by adjusting compressor operation according to load to eliminate waste and save energy.

1. When temperature is higher than set temperature, the motor rotates faster to lower room temperature.
2. Motor rotation speed is adjusted to maintain a constant temperature.
3. Motor rotates when temperature is higher than set temperature.
4. When temperature approaches set temperature, the motor rotation speed is reduced.
5. Motor stops when temperature is lower than set temperature.
6. Variation width for temperature becomes large when temperature is adjusted by repeatedly starting and stopping the motor. Furthermore, the motor always rotates at constant speed, and energy consumption increases from the energy loss of starting and stopping.
7. Lowering motor rotation speed according to load reduces both variation width for temperature and energy consumption.



## VRF / VRV SYSTEM

### Features

- Higher efficient inverter compressors
- 100% inverter advantage
- Designed for high ambient temperature conditions.
- Specially designed ODUs
- Wide operating range
- Weather-proof ODUs designed
- Conformal coating for PCBs
- Quite mode
- Emergency backup operation
- Long and flexible range of piping design

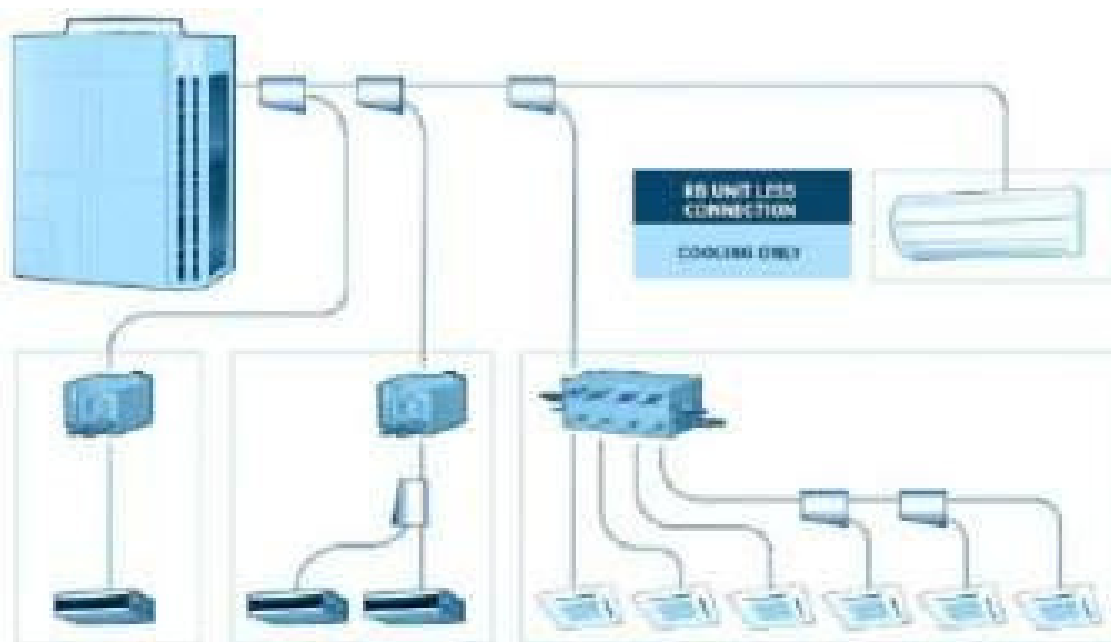


### Description

The VRF / VRV system is a multi-split type air conditioner for commercial buildings that uses variable refrigerant low control to provide customers with the ability to maintain individual zone control in each room and floor of a building.

### Technology

- The simplest explanation of VRF / VRV is to describe it as a large scale ductless HVAC system that can perform at a high capacity.
- The specific design of a VRF / VRV system varies based on application.
- In general, VRF / VRV technology provides the ability for multiple indoor units or zones to operate on the same system.



**These products are used in offices, residencies, commercial areas and many more as per customer needs**



## ACCESSORIES

### Expansion Valve

Whenever the bulb senses an increase in suction line temperature, the liquid expands, increasing the pressure in the fixed volume, and pushes the diaphragm down, thereby opening the valve and allowing more liquid refrigerant into the evaporator.



### Copper pipe & Insulation

- Copper piping is a tube-like material made from copper, a red-brown metal with the chemical symbol Cu and atomic number 29.
- It is used to convey water, gas, oil or other fluid from one location to another.
- Insulation is defined as a material used to insulate something, especially a building.
- Basically, insulation is material used that reduces heat loss or heat gain by providing a barrier between the inside of your home and the significantly different temperature outs

### Filters

- HEPA, or efficiency particulate air, is the peak standard for air filtration.
- These filters are frequently used in medical settings, as they filter at least 99.97% of particles as tiny as 0.3 microns.
- These filters can remove microscopic substances from the air like mold, dust and pet dander.

1. Fine Filters
2. Pre Filters
3. Hepa Filters



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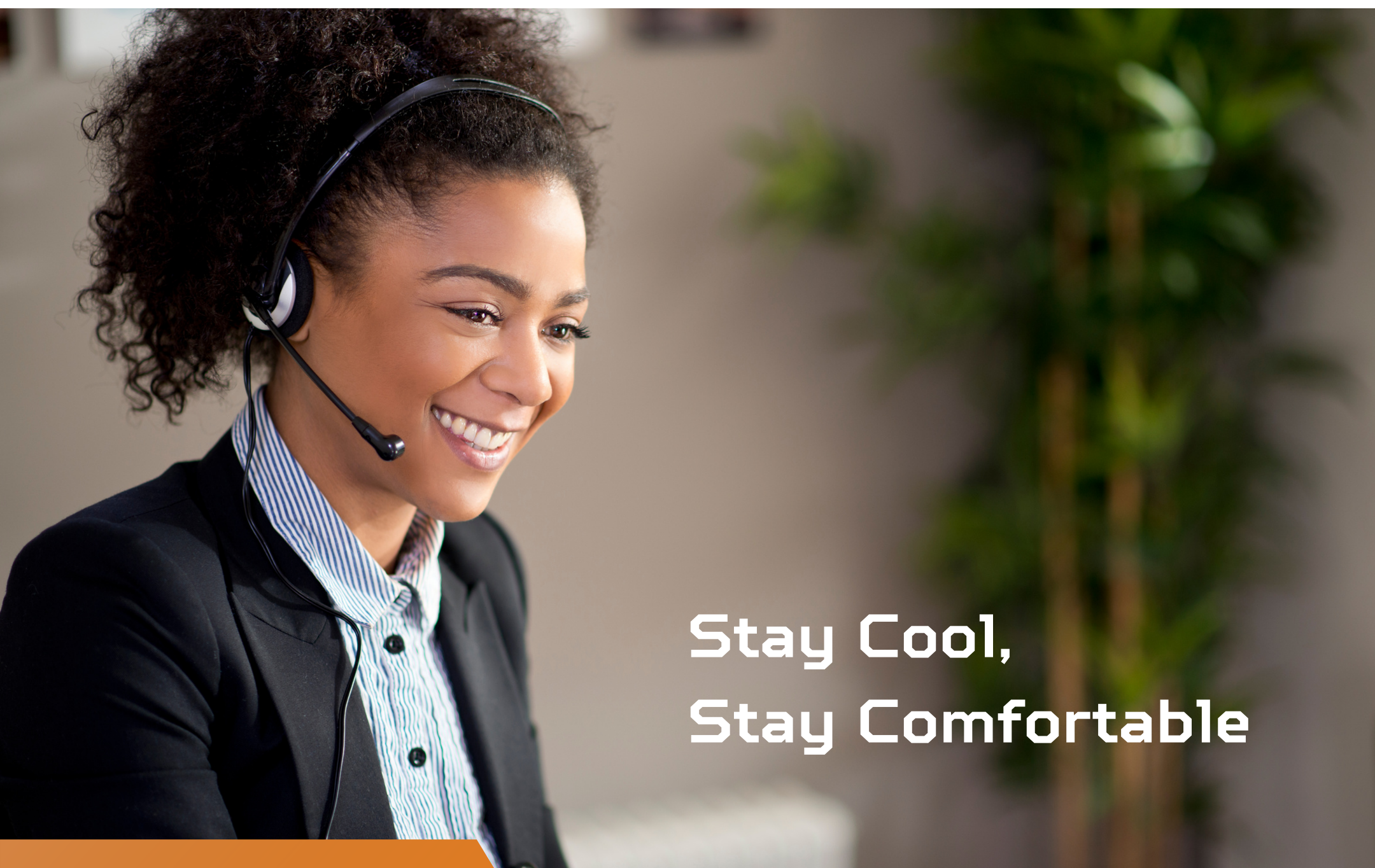


## BRANDS WE USE

**HITACHI**  
Inspire the Next



**Panasonic**



**Stay Cool,  
Stay Comfortable**



## OUR CLIENTS



## OUR CLIENTS







Delear for Air Conditioners, Electrical Works, Sales & Services



**india Aircon**

Authorised Dealer for Air Conditioners, Electrical Sales & Service

Office: No. 43/15, Arya Gowder Road, West Mambalam, Chennai - 600033, TN

Mobile No.: 9840438136, 9884678725 | Landline No. 044 -4767693 |

indiaairconn@gmail.com | www.indiaaircon.in