

PROFESSIONAL AIR CONDITIONING INSTALLATION

ENGINEERING COMFORT. POWERING RELIABILITY.

OUR INSTALLATION PROCESS

- 1 SITE ASSESSMENT**
We will assess your cooling needs, electrical capacity and installation requirements.
- 2 SYSTEM SELECTION**
We recommend the most suitable and energy-efficient AC system for maximum performance.
- 3 PROFESSIONAL INSTALLATION**
Our certified technicians install the system using industry best practices and quality materials.
- 4 TESTING & COMMISSIONING**
We test the system for cooling performance, safety and efficiency to ensure optimal operation.
- 5 HANDOVER & SUPPORT**
We guide you on proper use and maintenance. Our sales support is always available.

SAFETY IS OUR PRIORITY

Every installation is carried out with strict safety standards:

- ✓ Safe electrical connections
- ✓ Proper refrigerant handling
- ✓ Secure equipment mounting
- ✓ Correct drainage installation
- ✓ Leak detection & pressure testing
- ✓ System performance testing

SPLIT AIR CONDITIONER – INSTALLATION DIAGRAM



TYPES OF AC SYSTEMS WE INSTALL

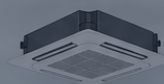
WALL-MOUNTED SPLIT UNIT



FLOOR-STANDING UNIT



CEILING CASSETTE SYSTEM



DUCTED (CONCEALED) SYSTEM



VRF / VRV SYSTEM



MULTI-SPLIT SYSTEM



HVAC INSTALLATION & CLIMATE CONTROL

A complete corporate guide to safe, efficient and reliable indoor environments.

TYPICAL INSTALLATION – KEY STEPS



BENEFITS OF PROFESSIONAL INSTALLATION

- ❄️ Faster and more efficient cooling
- ⚡ Lower electricity consumption
- 🌬️ Improved indoor air quality
- 🔊 Reduced noise and vibration
- 🛡️ Longer equipment lifespan
- 🔧 Fewer breakdowns and maintenance issues
- 👍 Reliable year-round performance

HUMELIX
LIMITED

+234 803 123 4567

www.humelix.com

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Professional. Reliable. Efficient.
Your Comfort, Our Commitment.

Engineering-led HVAC solutions for

- Homes and apartments
- Offices and commercial facilities
- Hotels, hospitals and schools
- Factories, warehouses and data centres

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Temperature, airflow, humidity and air quality managed as one system.

Modern buildings require more than a stand-alone air conditioner. They need a coordinated system that controls temperature, introduces fresh air, removes heat and contaminants, manages humidity, and supports the safe operation of people, products and equipment. This is the role of HVAC.

At **Humelix Limited**, we design and install Heating, Ventilation and Air Conditioning systems for residential, commercial and industrial environments. Our approach combines accurate engineering calculations, careful equipment selection, safe installation practices and thorough commissioning.



A good HVAC system should not merely cool a room. It should create a stable, healthy and efficient indoor environment.

What HVAC means

Function	Purpose	Value
Heating	Maintains warmth during colder periods using heat pumps, boilers, furnaces or electric heating.	Protects comfort, processes and temperature-sensitive spaces.
Ventilation	Supplies fresh air and removes stale air, odours, moisture and airborne contaminants.	Improves indoor air quality and supports healthier occupancy.
Air Conditioning	Removes heat and excess humidity while maintaining a controlled indoor temperature.	Improves comfort, productivity and equipment reliability.

Why HVAC Systems Matter

Comfort

Stable temperature and controlled humidity make indoor spaces pleasant throughout the year.

Health

Fresh-air ventilation and filtration help reduce dust, pollutants, allergens and stagnant air.

Safety

Correct extraction and airflow control help manage fumes, heat, moisture and harmful gases.

Property Protection

Moisture control reduces the risk of condensation, mould and damage to finishes or equipment.

Energy Efficiency

Properly sized and controlled systems consume less power than oversized or poorly installed equipment.

Productivity

Comfortable occupants and correctly cooled machinery perform more reliably.

Professional Installation - Illustrated Overview

PROFESSIONAL AIR CONDITIONING INSTALLATION

ENGINEERING COMFORT. POWERING RELIABILITY.

Expert installation. Maximum efficiency. Long-lasting performance. At Humelix Limited, we deliver safe, reliable and energy-efficient air conditioning solutions for homes, offices, commercial and industrial spaces.

OUR INSTALLATION PROCESS

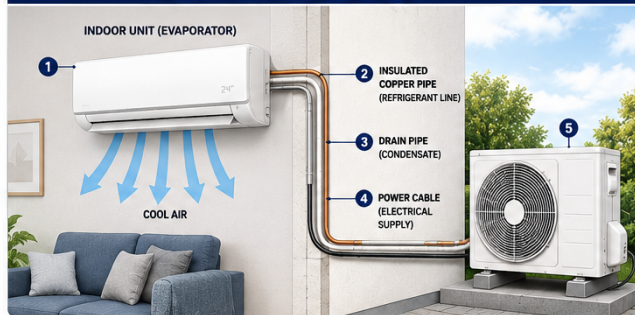
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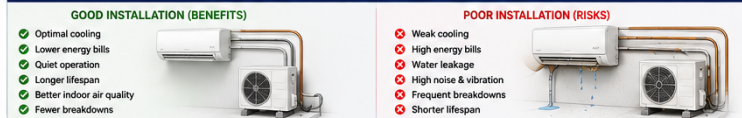
SPLIT AC INSTALLATION - DIAGRAM



TYPICAL INSTALLATION - KEY STEPS



GOOD INSTALLATION vs POOR INSTALLATION



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- 🛡️ Peace of mind

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SCAN TO
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WEBSITE

Engineering note: Final equipment capacity must be based on a site survey and load calculation. Room size alone is not enough where occupancy, glazing, heat-producing equipment, fresh-air requirements or long operating hours are significant.

HVAC Systems We Design and Install

Split Systems

A practical indoor-and-outdoor arrangement for homes, offices and smaller commercial spaces.

Multi-Split Systems

Multiple indoor units connected to one outdoor unit, allowing separate room control.

VRF / VRV Systems

Advanced multi-zone solutions suited to hotels, offices, apartments and larger developments.

Ducted Systems

Concealed systems that distribute conditioned air through ducts, grilles and diffusers.

Ceiling Cassette Systems

Four-way ceiling airflow for shops, restaurants, offices and open-plan spaces.

Packaged & Rooftop Units

Self-contained solutions used where building layout or plant-space conditions favour packaged equipment.

Chilled-Water Systems

Central plant systems for larger facilities with significant cooling demand.

Mechanical Ventilation

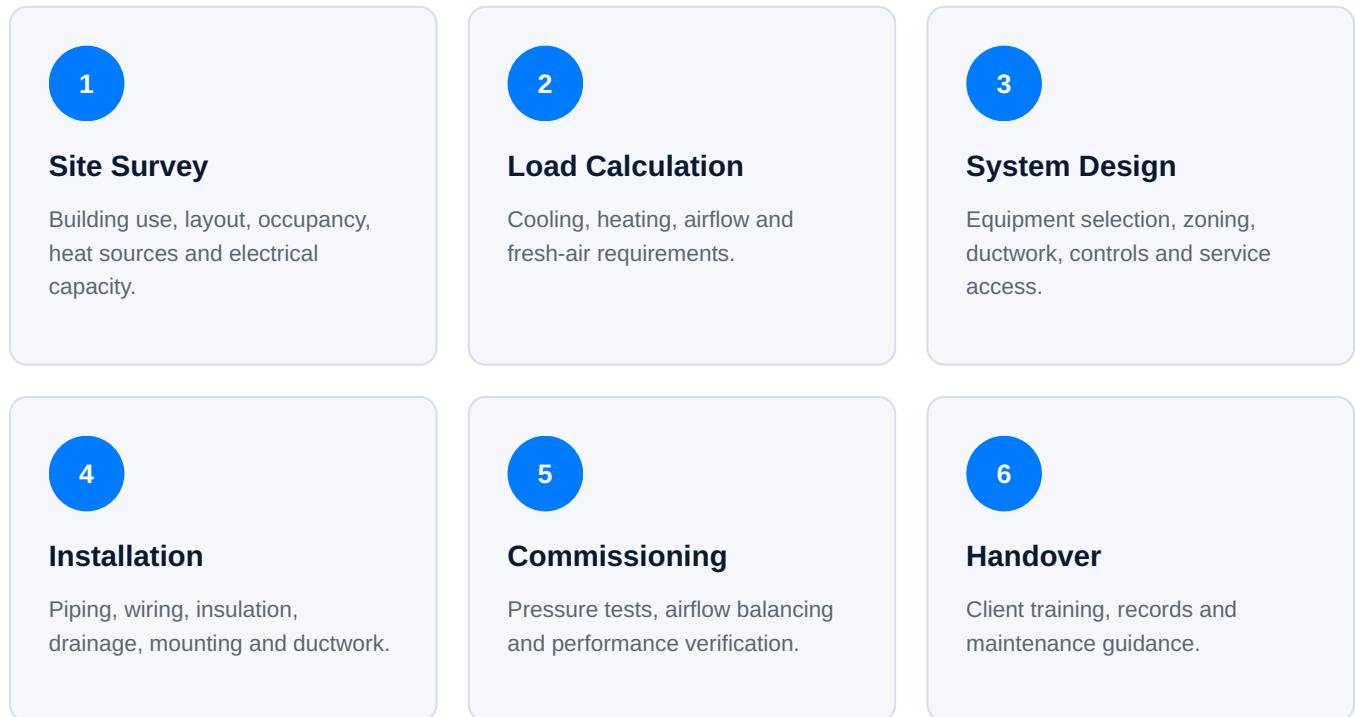
Fresh-air supply, toilet extraction, kitchen exhaust and industrial air movement.

Choosing the correct system

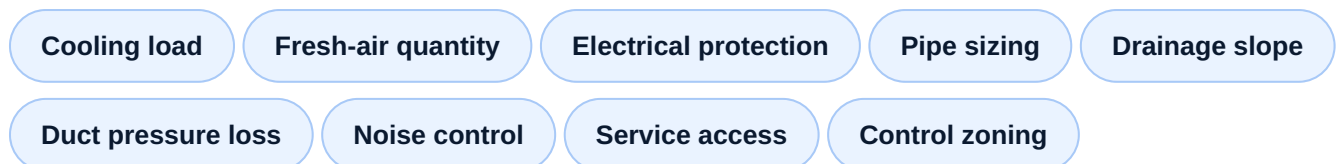
The right solution depends on building use, occupancy, working hours, available plant space, electricity supply, maintenance requirements, budget and future expansion. Humelix evaluates these factors before recommending equipment.

Our Engineering and Installation Process

A dependable HVAC project begins long before equipment is mounted. Humelix follows a structured process to reduce design errors, prevent unnecessary energy use and ensure safe operation.



Key engineering checks



Testing and commissioning

Before handover, our engineers verify refrigerant pressure, temperature difference, electrical current, airflow, thermostat operation, drainage, insulation, vibration, noise and safety controls. The system is released only after its operation has been checked and recorded.

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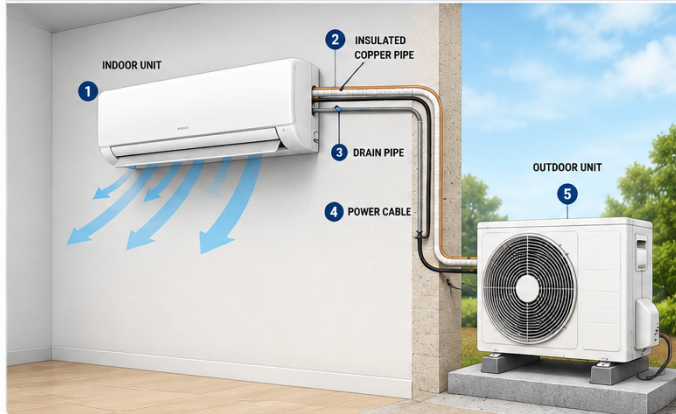


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HVAC Solutions Across Key Sectors

Healthcare

Controlled temperature, filtration, ventilation and pressure relationships support patient comfort and cleaner clinical environments.

Data Centres

Precision cooling and humidity management protect servers and reduce the risk of heat-related downtime.

Manufacturing

Ventilation, process cooling and heat extraction support workers, machinery and production quality.

Commercial Buildings

Zoned climate control improves occupant comfort while smart controls reduce unnecessary energy use.

Hospitality

Quiet, dependable cooling and fresh-air control help deliver a consistent guest experience.

Education

Comfortable classrooms and suitable ventilation support concentration and wellbeing.

Retail

Stable temperatures improve customer comfort and help protect products and equipment.

Residential

Correctly sized systems provide efficient comfort without excessive noise or electricity consumption.

Every building has a different HVAC requirement. Humelix designs around the activity, occupancy and operational risks of each facility.

Energy Efficiency, Smart Controls and Sustainability

HVAC can represent a major share of a building's electricity demand. Efficiency therefore depends on more than buying a high-efficiency unit; it depends on correct sizing, installation quality, zoning, controls, maintenance and the way the building is operated.

Efficiency Measure	How It Helps
Correct sizing	Avoids short cycling, poor humidity control and unnecessary energy use.
Variable-speed technology	Allows output to match actual demand instead of running continuously at full capacity.
Smart thermostats and sensors	Improve scheduling, occupancy response and temperature accuracy.
Building Management Systems	Enable central monitoring, alarms, trends and coordinated control.
Efficient ductwork	Reduces leakage, pressure losses and fan energy.
Preventive maintenance	Keeps coils, filters, fans and controls operating closer to design performance.
Solar integration	Where suitable, HVAC demand can be coordinated with solar generation and energy-management systems.

Humelix design objective

Deliver the required indoor conditions with the lowest practical energy use while maintaining safety, reliability, serviceability and long-term value.

Safety, Maintenance and Long-Term Reliability

Even a well-designed HVAC system can lose performance when filters, coils, drains, fans, electrical terminals or controls are neglected. Planned maintenance protects comfort, equipment life and operating cost.

Maintenance Area	Typical Action
Routine inspection	Check alarms, operating condition, noise, vibration and visible damage.
Filter service	Clean or replace filters to protect airflow and indoor air quality.
Coil cleaning	Remove dirt that restricts heat transfer and increases energy use.
Drainage check	Prevent leakage, odour and microbial growth.
Electrical testing	Inspect current, terminals, controls and protection devices.
Refrigerant assessment	Investigate performance loss and verify system integrity.
Airflow verification	Check fans, dampers, grilles, diffusers and duct condition.
Performance reporting	Record findings, corrective actions and future recommendations.

Safety priorities

- Safe electrical isolation, suitable protection and compliant cable sizing.
- Correct refrigerant handling, leak testing and pressure testing.
- Secure mounting, vibration control and safe access for future servicing.
- Proper condensate drainage and weather-resistant outdoor installation.
- Clear commissioning records, operating guidance and maintenance recommendations.

Why Choose Humelix Limited?

Engineering-led design

We assess the building before selecting equipment.

Professional installation

Our teams follow structured installation and testing procedures.

Broad system capability

From split units to complex commercial and industrial HVAC solutions.

Energy-conscious solutions

We consider controls, zoning and long-term operating costs.

Quality and safety

Materials, workmanship and protection measures are treated as essential.

After-sales support

We support handover, maintenance planning and ongoing performance.

Plan Your HVAC Project with Humelix

Whether you are constructing a new facility, upgrading an existing system or improving ventilation, Humelix can help you develop a safe, efficient and reliable solution.

Visit www.humelix.com to request a consultation or quotation.

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