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DESIGN & BUILD

COMPANY PROFILE



Established in 2017, D&B (Design & Build) is a specialized engineering company providing comprehensive solutions in HVAC, , firefighting and plumbing systems. With operations in Egypt, Qatar, and Saudi Arabia, we have successfully completed over 100 projects across government, commercial, industrial, and healthcare sectors. Our services span consultancy, system design, installation, and ongoing maintenance – all delivered with precision, reliability, and innovation. D&B is committed to energy-efficient, high-performance systems that exceed industry standards. We partner with clients to build smarter, safer, and more sustainable environments.



Design & Build



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ABOUT COMPANY

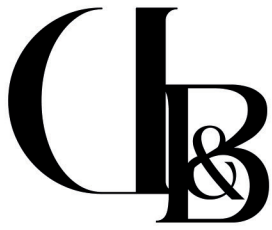
D&B Company is dedicated to the design and implementation of air conditioning and ventilation systems. Since its inception in 2017, D&B has established itself as a leader in delivering comprehensive engineering solutions for HVAC systems, firefighting infrastructure, and plumbing systems, not only in Egypt but also internationally, with operations in countries like Qatar and Saudi Arabia.

Our proficiency spans various areas, including:

- Consultancy
- Design
- Installation
- Maintenance

We ensure optimal performance, safety, and compliance in all our projects. With a proven track record and a steadfast commitment to excellence, we have completed over 100 projects.





CEO MESSAGE

At D&B, we believe that engineering is more than just systems and structures — it's about creating solutions that improve lives, enhance comfort, and drive progress. Since our founding in 2017, we've remained committed to delivering high-quality HVAC and firefighting systems that meet the evolving needs of our clients across Egypt and the wider MENA region.

Our success is built on a foundation of technical excellence, continuous innovation. Every project we undertake is a reflection of our dedication to safety, sustainability, and long-term performance. As we look to the future, D&B will continue to push boundaries, adopt smarter technologies, and expand our regional presence. I invite you to explore what we offer and to join us in building environments that stand the test of time.

Eng. Amer Hussein
Founder & CEO
D&B (Design & Build)





VISION & MISSION

Vision

To establish ourselves as the regional standard for HVAC systems by focusing on innovation, certified quality, and excellence in turnkey projects.

Mission

To expand our presence across the MENA region and develop high-performance HVAC, fire fighting systems and plumbing that consistently surpass industry standards, we prioritize a client-centric approach at every stage of our process, from the initial design to ongoing maintenance.





MILESTONE

2015 - Beginnings

Established as a specialized consultancy firm focused on HVAC .

2017 – Full-Service Transformation

Expanded into a comprehensive design and build company, offering end-to-end solutions including installation and maintenance.

2018–2022 – Regional Growth

Successfully delivered projects across Egypt and expanded operations into Qatar and Saudi Arabia, partnering with top-tier brands and developers.

Crossed 100 completed projects across diverse sectors including government, commercial, healthcare, and industrial.

2025 & Beyond – Smart & Sustainable Future

Committed to lead the industry in energy-efficient technologies, smart building systems, and sustainable engineering solutions across the MENA region.



OUR SERVICE

Comprehensive Engineering Solutions at D&B (Design & Build)

At D&B, we offer comprehensive engineering solutions that combine technical expertise, innovation, and reliability. Our services are tailored to meet the specific requirements of each project while prioritizing high performance, safety, and cost-effectiveness.

Our Services

- **Engineering Consultancy & System Design**

We offer expert analysis, load calculations, energy audits, and system optimization customized to our clients' needs and compliance standards. Our team specializes in HVAC system design, considering factors such as building architecture, occupancy patterns, and climate conditions to deliver efficient, sustainable solutions.

- **HVAC Solutions**

Our services encompass the full design, supply, installation, testing, and commissioning of HVAC systems, including VRF/VRV systems, chillers, and DX units.

- **Firefighting Systems**

We provide custom design and implementation of suppression systems that cater to the unique risks and regulatory requirements of each property.



- **Maintenance & Lifecycle Support**

We offer preventive and corrective maintenance contracts, system upgrades, and 24/7 emergency response to guarantee long-term performance and peace of mind.

- **Smart & Sustainable Solutions**

Our approach includes the integration of smart controls, energy-efficient technologies, and sustainable materials to future-proof systems and lower operational costs.

With a commitment to innovation and sustainability, we strive to create value for our clients by enhancing the efficiency and resilience of their operations. Through cutting-edge technology and a focus on environmental stewardship, we ensure that each solution is tailored to meet the unique needs of our clients while contributing to a greener future.





MAINTENANCE

Maintenance & Lifecycle Support (Protecting Your Investment)

Types of HVAC Maintenance:

- Corrective maintenance
- Preventative maintenance
- Predictive maintenance

Preventive Maintenance Services

- Preventive Maintenance Contracts
- Annual System Checkups
- Emergency Repairs
 - 12-Hour Response Guarantee
- Retrofitting & Upgrades
- Extending System Lifespan



DESIGN & BUILD PROCESS

A. Consulting and Designing

- Chilled Water Systems: Designed for large-scale projects
- VRF/VRV Systems: Offering high-efficiency zoning solutions
- Dx Units: Custom-configured to meet project specifications

B. Custom DESIGN FOR THE SYSTEM

- Ductwork & Piping Layouts: Focused on minimizing energy loss
- Equipment Selection: Collaborating with Trane, Carrier, and Mitsubishi to provide premium units

C. Premium Materials

- Copper Insulated Piping: Known for corrosion resistance and longevity
- Galvanized Steel Ducts: Equipped with acoustic lining to control noise
- Smart Controls: Automated and IoT-enabled for remote monitoring





FIRE FIGHTING SYSTEMS

Customizing Fire Protection Systems

Every commercial property encounters distinct risks, and standard fire protection solutions frequently fail to provide the necessary safety. A skilled fire protection services provider will tailor a system specifically designed to meet your property's unique needs. This customization involves selecting the optimal mix of active, passive, and automatic systems, all strategically installed to maximize coverage and efficiency.

How Fire Protection Service Providers Customize Solutions:

- **Tailored Design:** Service providers create systems based on the building's architecture and operational risks, ensuring that every area is adequately protected.
- **Comprehensive Solutions:** They integrate various fire protection components—such as sprinklers, extinguishers, and fire-resistant barriers—into a unified system that addresses the specific threats to your property.
- **Ongoing Maintenance and Upgrades:** Beyond installation, fire protection service providers ensure your system remains compliant and effective through regular maintenance, inspections, and timely upgrades.
- **Opting for a customized fire protection system** ensures your commercial property is thoroughly prepared to manage any fire emergency, reducing risks and promoting long-term safety.

PROTECT YOUR BUSINESS WITH THE RIGHT FIRE PROTECTION

Investing in an appropriate fire protection system is essential for commercial properties. Utilizing active, passive, or automatic systems ensures compliance with safety regulations, safeguards assets, and, most importantly, protects lives. Regular inspections and maintenance are vital to ensure these systems operate at optimal performance.

RELIABLE PLUMBING SERVICES FOR EVERY NEED

Our plumbing solutions guarantee efficient and dependable water systems for both residential and commercial clients. With our expertise in installation, maintenance, and repair, our talented plumbers employ state-of-the-art technology to address issues quickly and effectively.

- We handle everything from minor repairs to intricate pipe installations.
- Quality and customer satisfaction are our top priorities.

With a pledge to transparency, competitive pricing, and a dedicated 24/7 emergency response team, we are your trusted partner for all plumbing requirements.





TYPES OF PROJECTS

At D&B, we pride ourselves on a diverse portfolio of successful projects across multiple sectors including banking, healthcare, industrial facilities, commercial spaces, and private developments. Our work spans from advanced VRF system installations and chilled water systems to precision-engineered machine rooms and fire safety solutions. With a strong presence in Egypt, Qatar, and Saudi Arabia, we have consistently delivered high-performance HVAC and firefighting systems tailored to the unique needs of factories, hospitals, banks, clubs, shopping centers, and administrative buildings. Every project reflects our commitment to quality, efficiency, and client satisfaction.

Types of Sectors Covered in Our Projects:

- Commercial: Clubs, malls, gyms, restaurants, cafés, and food courts.
- Residential: Real estate development projects
- Industrial: Factories and warehouses
- Administrative: BANKS, Companies, workspaces, and conference halls
- Healthcare: Medical facilities and hospitals
- Educational: Universities and Schools
- Tourism: Hotels and resorts

HOW WE OPERATE

Quality Meets Affordability – The D&B Advantage

We strike the perfect balance between outstanding engineering and affordability, offering you:

- **Competitive Pricing:** We source top-quality materials at the best market rates available.
- **Value-Oriented Solutions:** Our designs emphasize energy efficiency, durability,

On-Time Delivery, Every Time

Time is valuable, and we honor that principle. Our tried-and-true project management strategy guarantees:

- **Phased Planning:** Scheduling based on milestones to prevent delays.
- **In-House Teams:** Accelerated execution with our dedicated engineers and technicians.
- **Real-Time Progress Tracking:** Clients receive regular updates to stay informed.

Beyond Installation – Lifelong Support

Our service doesn't end at handover. We provide:

- ✓ **Preventive Maintenance Plans**– Minimize downtime, maximize efficiency.
- ✓ **24/7 Emergency Support**– Rapid response when you need it most.
- ✓ **Consulting & Upgrades**– Future-proofing your systems as technology evolves.

We invest in top engineering talent to guarantee excellence:

- **Rigorous Hiring:** Only certified, experienced professionals join our team.
- **Continuous Training:** Keeping skills sharp on the latest HVAC & firefighting tech
- **Client-eFirst Mindset:** Engineers who listen, adapt, and deliver beyond expectations



HVAC SYSTEMS WE PROVIDE

A.COOLING & HEATING SYSTEMS

1.MINI-SPLIT UNITS

Description:

This system features a traditional configuration with an indoor evaporator unit paired with a distinct outdoor condenser, linked by refrigerant lines.

Ideal for:

Perfect for small commercial environments, including individual offices, boutique retail stores, or residential areas. It's an excellent option for new constructions or renovations where installation is uncomplicated.



2.DX-DIRECT EXPANSION UNITS

Description: It's a self-contained system that uses refrigerant to cool the air directly. Its installation requires larger refrigerant lines and ducting to simplify the air distribution and potentially more extensive electrical connections.

Ideal for: large commercial or industrial settings, such as office buildings, warehouses, or manufacturing facilities.

Types:

Split DX units
Package DX units





3.VRF- [Variable refrigerant flow]

Description: A highly advanced type of multi-split system. VRF technology precisely controls the flow of refrigerant to each indoor unit, enabling simultaneous heating & cooling in different zones of a building.

Ideal for: large office buildings, hotels, and other facilities that require precise temperature control for numerous individual zones.



4.CHILLER-SYSTEM

Description: A large, centralized system designed to produce chilled water, which is subsequently distributed through a network of pipes to air handling units or fan coil systems throughout the building. This chilled water is utilized to cool the air effectively.

IDEAL FOR: Very large commercial and industrial buildings, such as large data centers, hospitals, and manufacturing plants, where massive-scale cooling is required.

TYPES:

AIR-COOLED CHILLER

WATER-COOLED CHILLER

ABSORPTION CHILLER





B. Ventilation Systems

As a leading engineering firm, we specialize in the precise design, supply, and installation of a wide range of specialized fan systems. Our expertise ensures that each project—whether in commercial kitchens or industrial facilities—receives a ventilation solution that is highly efficient and tailored to meet specific operational needs. Our dedicated team collaborates closely with clients to guarantee that every system not only adheres to industry standards but also improves air quality and energy efficiency. We take pride in offering innovative solutions that incorporate the latest technologies, optimizing performance while minimizing environmental impact. Committed to excellence and customer satisfaction, we deliver ventilation systems that endure, ensuring safety and comfort in every environment we serve.



SUPPRESSION SYSTEMS WE OFFER

WATER-BASED SYSTEMS

These are the most common and cost-effective systems, primarily used for Class A fires (involving ordinary combustibles like wood and paper).

- **Sprinkler Systems:** A network of pipes with sprinkler heads. When a sprinkler head's heat-sensitive element reaches a certain temperature, it activates and sprays water directly onto the



Sprinkler system

- **Wet Pipe Systems :**
have pipes filled with water at all times.

- **Dry Pipe Systems:**
Use pressurized air in the pipes to prevent freezing in cold environments. Water is released only when a sprinkler head activates.



DRY PIPE SYSTEM

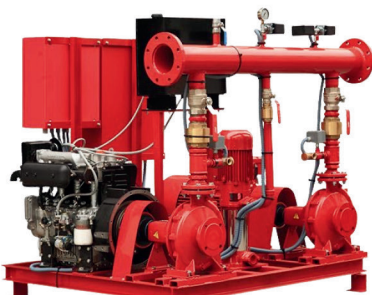
- **Pre-action Systems:**

require a two-step activation process to prevent accidental discharge. They're ideal for areas with sensitive equipment, like server rooms.



Pre-action Systems

- **Deluge Systems:** have open sprinkler heads and release a large volume of water simultaneously over a wide area, suitable for high-hazard locations.
- **Water Mist Systems:** These systems use fine droplets of water to suppress fire by cooling the flames and displacing oxygen, causing minimal water damage.



Fire pump system



GAS BASED SYSTEMS ...



These systems are ideal for environments where water could damage valuable or sensitive equipment, such as data centers, museums, and electrical rooms. They work by displacing oxygen or interrupting the chemical reaction of the fire.

A.Clean Agent Systems: Use chemical agents (e.g., FM-200) that absorb heat and interfere with the fire's chemical reaction without leaving residue.

B. Carbon Dioxide (CO₂) Systems: Release a high concentration of CO₂ to displace oxygen, suffocating the fire. These are highly effective but pose a danger to people, so they are typically used in unoccupied spaces or with specific safety protocols in place.



FOAM-BASED SYSTEMS

Foam systems are highly effective against Class B fires (flammable liquids like gasoline, oil, and grease). The foam creates a blanket that smothers the fire and cools the fuel surface, preventing re-ignition. They are commonly used in industrial facilities, aircraft hangars, and chemical plants.

DRY CHEMICAL SYSTEMS

These systems release a dry chemical powder that interrupts the chemical chain reaction of the fire. They are versatile and can be used on Class A, B, and C fires (electrical fires). They are often found in industrial settings, kitchens, and manufacturing plants.





PORTABLE FIRE EXTINGUISHERS

Portable extinguishers are a crucial part of fire safety, providing a first line of defense for small fires. They are classified by the type of fire they can extinguish:

Water: For Class A fires.

Foam: For Class A and B fires.

CO₂: For Class B and C (electrical) fires.

Dry Chemical: A multipurpose extinguisher for Class A, B, and C fires.

Wet Chemical: Specifically designed for Class K fires (kitchen fires involving cooking oils and fats).





WHY CHOOSE D&B

Choose D&B for reliable, high-performance HVAC and fire safety systems tailored to your needs. We deliver expert engineering, on-time execution, and lifelong support across every project.



Fast & Reliable

You can rely on our prompt service! We guarantee that your needs will be addressed swiftly.

Value For Money

We are dedicated to ensuring customer satisfaction with timely service, prompt issue resolution, and affordable prices

TRUSTWORTHY

Our skilled AC technicians are highly trained, and we provide excellent service for a variety of major AC brands efficiently.

Expertise

With annual maintenance contract, you get a full year of service, ensuring your AC runs smoothly and providing peace of mind, Moreover We are experts in AC repair. This is why most major brands trust us to handle their service and maintenance needs.

OUR CLIENTS



LOGO.ADAM96.COM





ABOUT THE CEO

Eng. Amer Hussein



Education

1-1989 of mechanical engineering (power mechanical)

In faculty of engineering helwan university
General Grade : good

2- Hvac diploma in ain shams university

3- Hvac Consultant



Certifications

- Carrier training of maintenance and installation
- Carrier training course (hvac)
- Carrier basic system design course (bsdc) for air condition
- E-20 program for hvac design .



Founder and CEO





LET'S CONNECT WITH US

Design & Build

IF you are looking for end-to-end engineering solutions that combine technical expertise, innovation, and reliability. Get in Touch with us now



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