



ITQAN GLOBAL
HVAC SOLUTIONS

رؤية
2030
المملكة العربية السعودية
KINGDOM OF SAUDI ARABIA

Expert Care for Your Indoor Climate.



مؤسسة اتقان العالمي للتبريد والتكييف
ITQAN GLOBAL REFRIGERATION & AIR CONDITIONING CONT.

HVAC Solutions | Installation | Maintenance | Repairs



About Us

With years of industry experience, we specialize in providing tailored HVAC solutions for residential, commercial, and industrial clients. Our services ensure optimal performance, energy efficiency, and long-term reliability.



Mission

To improve indoor environments through professional HVAC services that prioritize comfort, efficiency, and sustainability. We dedicate ourselves to providing solutions that boost quality of life while reducing energy consumption and operating costs.



Vision

To guide the HVAC industry's shift to sustainable practices by introducing eco-friendly solutions, while maintaining the highest standards of comfort and reliability for our customers.



Comprehensive HVAC Solutions Installation, Maintenance, and Repairs

HVAC & Refrigeration Scope of Services



- Operation and maintenance contracts with SLA basis agreements
- Planned Preventive Maintenance for DX Units, chiller, and IDEC systems
- Reactive/Corrective Maintenance for DX Units, chiller, and IDEC systems
- Predictive maintenance for DX units, chiller and IDEC systems.
- All kind of Services and Repair jobs of systems including large tonnage chiller.
- Overhauling Centrifugal, Screw and Reciprocating Compressors.
- Supply spare parts, services and consumables for all kind Refrigeration jobs.
- Electrical, control & BMS services.
- Specialized services of air & water balancing and testing.
- Replacement, revamp, retrofit and upgrading the chiller.
- Replacement, revamp, retrofit and upgrading of DX HVAC units
- Replacement of condenser coils & re-tubing the coolers of chillers.
- Repairing of aluminum condenser coils with specialized Equipment and team
- Unitary products group services (split, package & VRF units).
- Maintenance and Service of FCU, AHU & FAHU, etc.

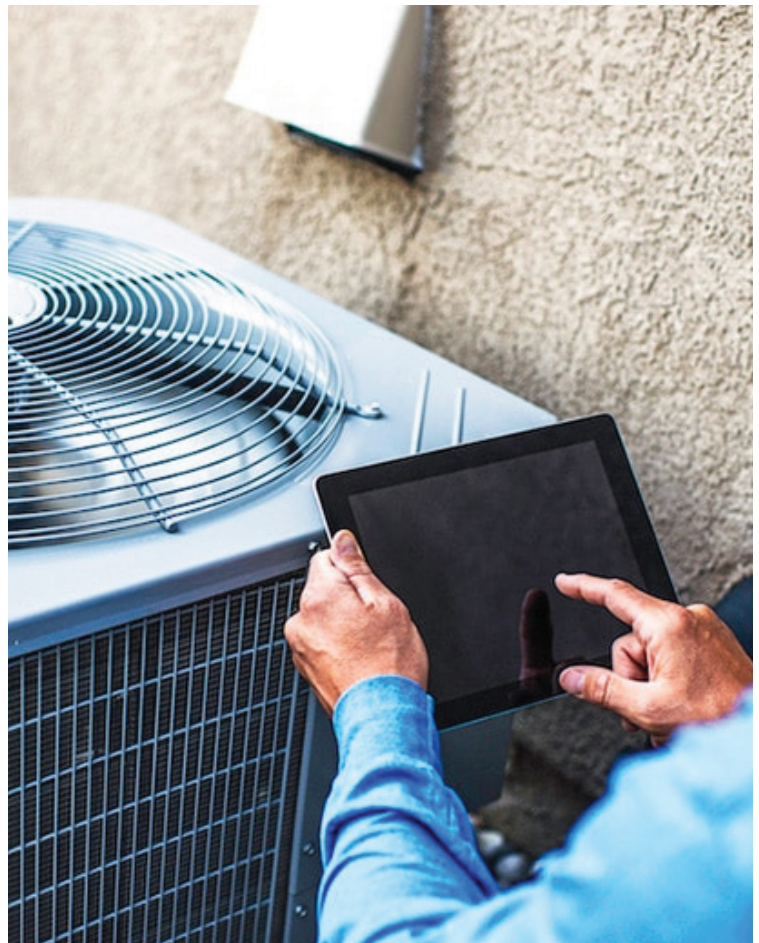
**All kind of HVAC consulting
services and support.**



Operation and maintenance contracts with SLA basis agreements



- Operation & Maintenance of All type of DX Packaged Unit, Ducted Split Unit, Concealed units, Cassette AC, Tower AC, Wall mount split AC & Window AC, etc.
- Operation and Maintenance of Water Cooled and Air-Cooled Chiller Plant.
- Operation and maintenance of AHU, FCU, Chilled water pump, condensed water pump and cooling tower
- Operation and Maintenance of IDEC system and adiabatic cooling system
- Operation and maintenance of BMS system



Where
Comfort
Meets
Efficiency.

Planned preventive Maintenance



We Performs the following activities during Monthly, Bi-Monthly and quarterly basis preventive maintenance as per OEM guidelines

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|---|---|
| <ul style="list-style-type: none">◦ Check electrical wiring and connection for tightness. | |
| <ul style="list-style-type: none">◦ Straighten up to normal position coil fins using comp. | <ul style="list-style-type: none">◦ Clean air & carbon filters. |
| <ul style="list-style-type: none">◦ Inspect compressor motors for proper operation. | <ul style="list-style-type: none">◦ Lubricate fan motors & bearings. |
| <ul style="list-style-type: none">◦ Lubricate shafts bearing and motors | <ul style="list-style-type: none">◦ Check belts for excessive wears and change if necessary |
| <ul style="list-style-type: none">◦ Inspect fan for bent blade and correct as necessary. | <ul style="list-style-type: none">◦ Clean fan motors for proper operation. |
| <ul style="list-style-type: none">◦ Clean coils with cleaning detergents. | <ul style="list-style-type: none">◦ Clean coil with cleaning detergent. |
| <ul style="list-style-type: none">◦ Inspect pipes & valves for leak & poorer insulation frighten connection as necessary. | <ul style="list-style-type: none">◦ Check power & other control units & systems, correct defectives if any. |
| <ul style="list-style-type: none">◦ Check refrigerant pressure & charge additional refrigerants if and as necessary. | <ul style="list-style-type: none">◦ Check & calibrate thermostat. |
| <ul style="list-style-type: none">◦ Remove debris from air screen & clean area around the unit. | <ul style="list-style-type: none">◦ Test capacitors. |
| <ul style="list-style-type: none">◦ Check unit for proper operation noise & vibration. | <ul style="list-style-type: none">◦ Start unit & check for proper operation. |

Seasonal HVAC maintenance tasks

We also conduct HVAC preventive maintenance tasks on a seasonal basis twice a year—once for the fall and winter seasons; and once for the spring and summer seasons.



Spring and Summer preventive HVAC maintenance tasks

Typical HVAC preventive maintenance tasks for the spring and summer seasons will include

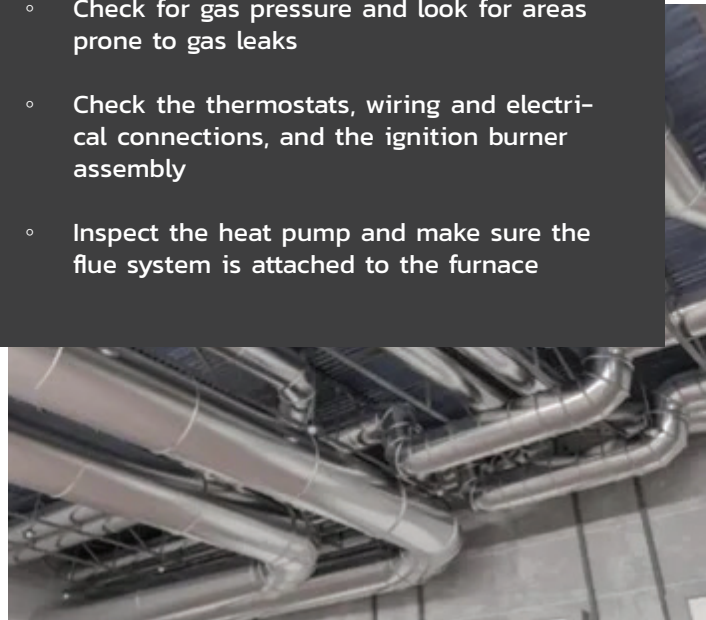


- Cooling system checks to determine that air conditioning units, Electrical controls, fans and compressors and functioning properly and efficiently
- Coil cleaning to ensure efficient operation of both evaporator and condenser coils
- Condensate drain clearing to prevent clogs, water overflow and potential water damage
- Check the outside unit, clear any debris, and ensure the cabinet door is closed
- Check the cabinet for leaks
- Check the refrigerant charge, thermostats, and all connections associated with the electrical system
- Inspect the ducts for dust and mold, and inspect the blowers and blades
- Make sure the fan motor is operating correctly and lubricate any moving parts

Fall and winter preventive HVAC maintenance tasks

Typical HVAC preventive maintenance tasks for the fall and winter seasons will include

- Heating system checks, including inspection and servicing of boilers, furnaces, and heat pumps
- Thermostat calibration to ensure heating system controls are working properly
- Filter changes to maximize the efficiency of your heating system and ensure the air quality produced by your heating units
- Clear drain lines and carefully inspect all heating elements. A damaged heat exchanger could lead to carbon monoxide exposure
- Lubricate all moving parts such as bearings and motors
- Replace the filter every 30 to 90 days, and replace any pulleys or belts that are damaged or frayed
- Check for gas pressure and look for areas prone to gas leaks
- Check the thermostats, wiring and electrical connections, and the ignition burner assembly
- Inspect the heat pump and make sure the flue system is attached to the furnace



Ducting Work Scope

- Design and fabricate ducts.
- Install ducts with insulation.
- Perform leak testing and sealing.
- Maintain and repair ducts

Chiller Water Piping scope

- Design and install chilled water pipes.
- Insulate pipes for thermal efficiency.
- Perform pressure testing and balancing.
- Maintain, repair, and upgrade piping systems.



Predictive maintenance

We are also providing predictive maintenance services and using data analysis to identify operational anomalies and potential equipment defects, enabling timely repairs before failures occur. It aims to minimize maintenance frequency, Reduced energy consumption, improved efficiency, extend equipment lifetime, avoiding unplanned outages and unnecessary preventive maintenance costs.



Reactive Maintenance

We are providing proactively reactive maintenance services on call basis and SLA basis.



Breakdown Maintenance



Run to failure Maintenance



Corrective Maintenance



Emergency Maintenance



+966 50 647 8243



sales@itqanglobalksa.com
www.itqanglobalksa.com



Al Aziz Ibn Abi Bakr, Al Malaz
Riyadh, 12841, Saudi Arabia.



CR No. : 1009056330
VAT No. : 310377352200003