



HVAC SOLUTIONS

Advanced Heat Exchange Solutions
Designed For HVAC-R, Industrial, Domestic,
Marine And Special Applications



SCAN TO
CONNECT



COMPANY PROFILE

Founded in 1986 by Mr. Nooruddin Jetpurwala, Dolphin Global Holdings has become a global leader in heat transfer and HVAC solutions, with operations across the UAE, USA, and India. Over 38 years, we have expanded to serve diverse cooling needs worldwide, exporting to over 70 countries, including regions such as Australia, Europe, the Middle East, Asia, Africa, and the Americas.

Today, Dolphin Global Holdings is known for its state-of-the-art facilities and highly skilled workforce, committed to delivering high-quality heat exchangers and HVAC systems tailored to our customers' specific requirements. Our products and services span the Automotive, Locomotive, Power Generation, Oil & Gas, Marine, Construction, Industrial, Mining, and HVAC industries. This diverse reach reflects our ability to provide highly customized, reliable, and sustainable solutions.

Our Mission and Vision

Our mission is to deliver advanced, energy-efficient HVAC and heat transfer systems that align with our commitment to quality, sustainability, and long-term reliability. By prioritizing innovation and environmental responsibility, we aim to exceed customer expectations and lead the way in sustainable practices across all sectors we serve.

Our Expertise

With decades of experience, we design and manufacture reliable, high-performance heat transfer solutions, guided by rigorous quality standards.

Sustainability Commitment

We prioritize sustainability, using energy-efficient technologies to help clients achieve eco-friendly goals without compromising performance.



CHAIRMAN'S MESSAGE



Since our inception in 1986, we have grown from a humble beginning to a globally recognized leader in heat transfer solutions, driven by our vision to revolutionize the cooling industry.

Our success in the HVAC sector is a testament to the dedication, hard work, and passion of the Dolphin family. It is their unwavering commitment to excellence and our relentless pursuit of innovation and quality that have propelled us to new heights. Our expansion across continents has been guided by our steadfast dedication to addressing the evolving needs of our clients and the industries we serve.

Innovation is the cornerstone of our operations at Dolphin Group. Our relentless focus on cutting-edge technologies and commitment to research and development have enabled us to deliver customized HVAC solutions that make a significant impact. We firmly believe that innovation drives progress, and this belief continues to chart our course forward.

Our accomplishments extend beyond the solutions we offer and the technologies we develop. At Dolphin, we are proud of our multi-cultural environment that values diversity, fosters collaboration, and promotes mutual respect. This inclusive culture and appreciation for diverse perspectives have been crucial to our growth and success.

Looking to the future, our commitment to sustainability, dedication to our customers, and passion for innovation remain unwavering. We eagerly anticipate the opportunities ahead and are devoted to continuing our journey of excellence with integrity, responsibility, and a steadfast focus on our clients' needs.

I am deeply grateful for the trust and support of our customers, partners, and employees worldwide. Your confidence in us motivates us to reach higher and push boundaries further. Together, we will continue to shape the future of the HVAC industry and make a positive impact on the world.

Mr. Nooruddin Jetpurwala
Founder and Chairman



www.dolphinhvac.ae

TABLE OF CONTENT

APPLICATIONS	1
FIN & TUBE CONFIGURATIONS	5
PROTECTIVE COATINGS	7
ALUMINIUM FIN & TUBE HEAT EXCHANGERS	9
MICRO-CHANNEL HEAT EXCHANGERS	10
HEAT RECOVERY HEAT PIPES	11
QUALITY	12
MANUFACTURING FACILITIES	14



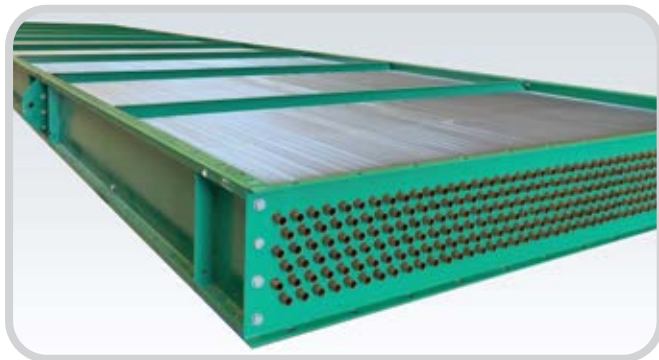
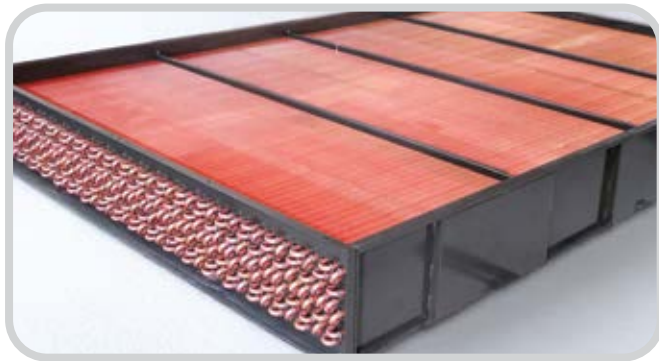
APPLICATIONS

AIR HANDLING UNITS

We manufacture hot water, steam, chilled water, direct expansion and condenser coils for heating, cooling and heat recovery systems.

VENTILATION SYSTEMS

We offer duct mounted coils, which include airtight casing, drain tray and moisture eliminators as additional accessories.



HEAT PUMPS

We offer coils for refrigerant heat pump systems with reverse cycle performance. During Summer/ Winter months, the same coil works as an evaporator (Cooling) or a condenser (Heating).

MARINE AND OFFSHORE APPLICATIONS

We specialize in design and manufacture of heat exchangers for the Marine and Offshore Industry. These include applications such as cruise liner air conditioning, engine room cooling, remote condensers and air handling units for offshore platforms.



APPLICATIONS

DRY AIR LIQUID COOLERS AND AIR COOLED CONDENSERS

We manufacture heat exchangers upto 13 mtr length, which we supply to a number of major Dry Air Liquid Coolers and Air Cooled Condensers manufacturers world wide.

FROST HEATING COILS FOR FILTERS PROTECTION

We produce coils working with hot water that can prevent particularly delicate and expensive filters from freezing.

OIL COOLING

We produce coils used for the cooling of machine lubricant oil, which are available with turbulators inside the tubes.

COOLING OR ANTI-FROST COILS FOR GAS TURBINE AIR INTAKE SYSTEMS AND ENGINES

We produce cooling coils for turbines inlet combustive air, manufactured with a special execution that can exclude the presence of moving parts that can potentially get detached in the airflow.



APPLICATIONS

TEXTILE PLANTS

We manufacture heat exchangers with reinforced fins and wide pinch or bare tubes which can work with dirty air conditioning fibres or manufacturing residuals.

REFRIGERATION

We offer glycol I water, brine or direct expansion heat exchangers with wide fin pitch. Special drain trays, fixed or removable which can facilitate cleaning, are also available.

PAPER INDUSTRY

We offer heat exchangers for the heating of process air. These can work with steam, condensate, thermal oil or hot water. Finned-block, finned tubes or bare tubes execution are available.

DRYERS (CELLULOSE, PELLET, FOOD, ETC)

We produce heat exchangers that can continuously work with high temperatures. This design prevents any contact points between the tubes and the casing. We Provide with GI & SS End plates & Casings.



APPLICATIONS

INDUSTRIAL PROCESSES

These coils are used in the plastic industry, surface treatment machinery, painting booths, ovens and many more.

We are able to choose the best materials and thermodynamics sizing for the coils needed in many different industrial processes.

BARE TUBE HEAT EXCHANGERS

For high temperature (over 300 °C) or for applications in which airborne particles like fibres, oil or dust may obstruct the coil face area. Specifically manufactured for hospital, clean room or pharmaceutical applications. Available in different diameters, thickness and materials.

GENERAL SPECIFICATIONS

- Standard Coils are manufactured with Copper tubes & Aluminium fins. Optional with protective coatings and Copper fins.
- All coils are provided with Copper headers. Optional with MS and SS headers.
- All AHU & FCU coils are provided with Brass threaded Male Adaptors / Connectors. Evaporator & DX Coils are provided with Brass Distributors. Air & Drain vents made of Brass are standard for Water Coils.
- We expertise in making different shape coils of all sizes like "C", "G", "L" and round shape in addition to the standard straight coils.
- The standard casing material for all coils is Galvanized Iron. Optional with Copper, Brass & Stainless Steel.

HEAT EXCHANGERS FOR CLEAN ROOMS APPLICATIONS

We offer various designs for installation in ducts, Fan Filter Units (FFU) or air handling units. Coils are supplied in several different materials, often together with stainless steel frames or powder painting.

CONTINUOUS FIN TYPE HEAT EXCHANGERS

Available in a wide range of materials, geometries and dimensions. This range of products includes water heating and cooling coils, evaporators, refrigerant condensers, diathermic oil heating coils and steam condensers.



FIN AND TUBE CONFIGURATIONS

S.No	Tube OD	Pattern (Pitch)	Row Spacing	Fin Surface	Fin Edge	FPI	Type of Tube	Tube Spec
1	7 mm	21mm x 16.48 mm 21 mm x 0.50"	21 x 12.7 mm	Louvers	Plain	8 to 17	Inner Grooved	0.28mm
2	5/16 Inch	1" x 7/8" 1" x 0.718"	25.4 x 18.24 mm	Plain	Ripple	12 to 17	Plain/ Inner Grooved	0.30mm
3	3/8 Inch	1" x 7/8" 1" x 0.718"	25.4 x 18.24 mm	Corrugated	Ripple	7 to 20	Plain/ Inner Grooved	0.30mm. 0.36, 0.40, 0.50, 0.81, 1mm
4	3/8 Inch	1" x 1" 1" x 0.866"	25.4 x 22 mm	Louvers	Ripple	8 to 20	Plain/ Inner Grooved	0.30mm. 0.36, 0.40, 0.50, 0.81, 1mm
5	3/8 Inch	1" x 1" 1" x 0.866"	25.4 x 22 mm	Corrugated	Plain	6.5 to 20	Plain/ Inner Grooved	0.30mm. 0.36, 0.40, 0.50, 0.81, 1mm
6	3/8 Inch	1" x 1" 1" x 0.866"	25.4 x 22 mm	Pyramid	Plain	7 to 20	Plain/ Inner Grooved	0.30mm. 0.36, 0.40, 0.50, 0.81, 1mm
7	3/8 Inch	1" x 1" 1" x 0.866"	25.4 x 22 mm	Plain	Ripple	8 to 17	Plain/ Inner Grooved	0.30mm. 0.36, 0.40, 0.50, 0.81, 1mm
8	3/8 Inch	1" x 1" 1" x 1" Square)	25.4 x 25.4 mm	Plain	Ripple	4 to 10	Plain/ Inner Grooved	0.30mm



FIN AND TUBE CONFIGURATIONS

S.No	Tube OD	Pattern (Pitch)	Row Spacing	Fin Surface	Fin Edge	FPI	Type of Tube	Tube Spec
9	1/2 Inch	125" x 1.25" 1.25" x 1.083"	31.75 x 27.5 mm	Pyramid	Plain	7 to 15	Plain/ Inner Grooved	0.36mm,0.40mm, 0.70mm & 0.81mm
10	1/2 Inch	1.375" x 1.375" 1.375" x 1.375" (Square)	34.92 x 34.92 mm	Corrugated	Plain	5 to 10	Plain/ Inner Grooved	0.36mm,0.40mm, 0.70mm & 0.81mm
11	5/8 Inch	1.25" x 1.25" 1.25" x 1.083"	31.75 x 27.5 mm	Corrugated	Ripple	12 to 13	Plain	0.36mm,0.40mm, 0.70mm & 0.81mm
12	5/8 Inch	1.5" x 1.5" 1.5" x 1.30"	38.1 x 33 mm	Corrugated	Ripple	7 to 13	Plain	0.40mm,0.50mm, 0.70mm & 0.81mm
13	5/8 Inch	40 mm x 40 mm	40 x 34.64 mm	Corrugated	Ripple	7 to 13	Plain	0.40mm,0.50mm, 0.70mm & 0.81mm
14	5/8 Inch	2" x 2" 2" x 2" (Square)	50.8 x 50.8 mm	Plain	Ripple	4 to 12	Plain	0.40mm,0.50mm, 0.70mm & 0.81mm

- Coils are also offered in => Carbon Steel Tube; Stainless Steel Tube; Cupro Nickel Tube; Aluminium Brass Tube upto 2 mm thickness.
- Fins are offered in both Aluminium and Copper options



PROTECTIVE COATINGS

● Thermoguard Coatings:

Dolphin provides one of the best anti-corrosive and polyurethane coatings available. Thermoguard coatings offer exceptional UV resistance and durability, using VOC-free technology for superior performance.

- **Thermoguard (Fin Guard Silver):** Protective coating shields HVAC-R coils from highly corrosive environments.
- **Salt Spray Tested:** Withstands up to 11,000 hours of salt spray testing, meeting ASTM B 117 standards.
- **Energy Savings and Sustainability:** Proven to reduce CO₂ emissions, enhancing energy efficiency and sustainability.
- **Long-Lasting Protection:** Extends coil lifespan by providing a robust defense against harsh environments.
- **Complete Surface Coverage:** Complete penetration and sealing of the heat exchanger surface, including the critical fin/tube interface, for thorough protection.
- **Flexible Urethane Base:** Designed to expand and contract with temperature changes, maintaining heat transfer efficiency and structural integrity.



THERMOGUARD



PROTECTIVE COATINGS

● Heresite Coatings:

Heresite air-drying phenolic series coatings are formulated for application by brush, spray, or roller. These coatings are renowned for their:

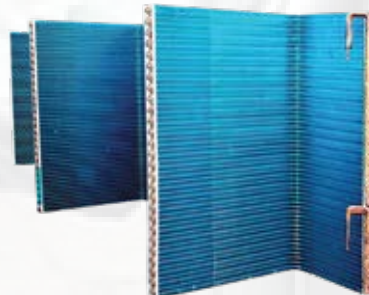
- Excellent durability and adhesion
- Effective protection against splashes, spills, and fumes
- Resistance to harsh climates and corrosive fumes

Suitable for a variety of applications, Heresite coatings ensure no significant efficiency loss and are ideal for:

- Air conditioning and refrigeration coils
- Agricultural implements
- Chemical plants
- Sewage disposal systems
- Textile industries
- Ventilation systems

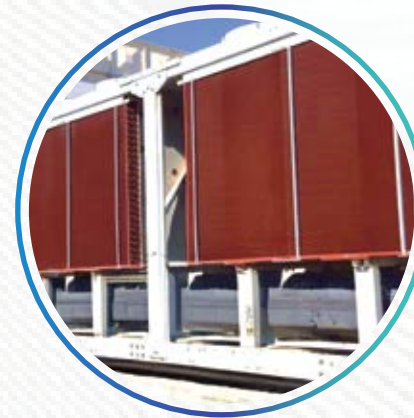
● HYDROPHILIC COATED FINSTOCK

- 100% Coverage
- Uniform coating on surface
- 100% Bonding
- No colour change

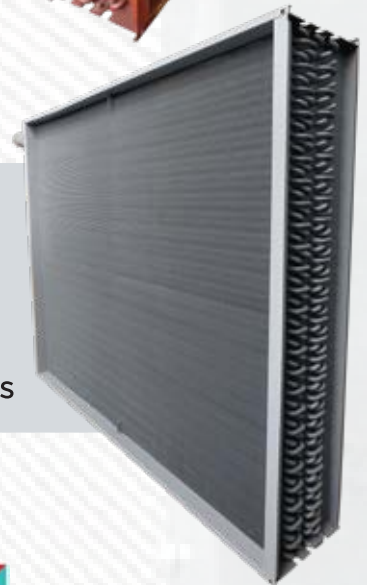


HERESITE
PROTECTIVE COATINGS, LLC

VR 514 Brown color



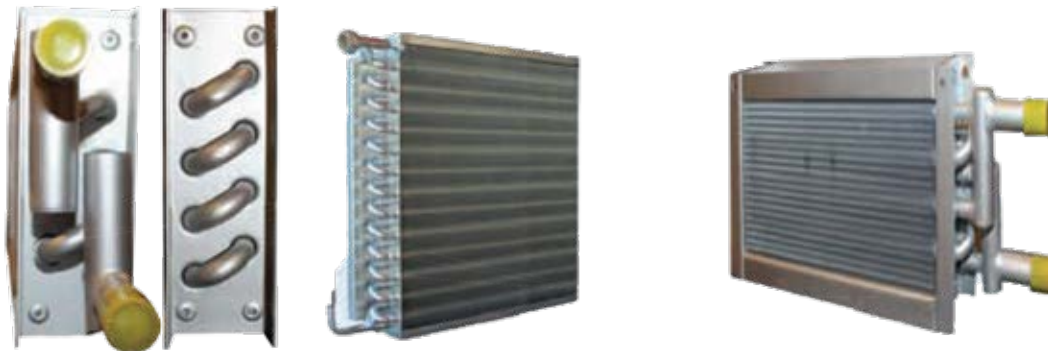
Hereshield WB 506 (Gray):
Water-based formula
Ideal for standard protection needs



ALUMINUM TUBE/ALUMINUM FINS HEAT EXCHANGERS

The Heating Ventilation, Air Conditioning And Refrigeration HVAC-R Industry Has Been Using Mechanically Assembled Copper Tubes And Aluminium Fin Solution For Years. Replacing The Copper Tubes With Aluminium Tubes Provides Real Benefits:

- Cost Effective
- Light Weight Per Meter
- Corrosion Resistance
- Performance
- Recyclability



	Outside Diameter(mm)	Wall Thickness(mm)
Copper tube (dia)	9.52	0.30
Aluminium Tube (dia)	9.52	0.76
	Outside Diameter(mm)	Wall Thickness(mm)
Copper tube (dia)	7	0.25
Aluminium Tube (dia)	7	0.50

	Round tube mechanical expanded (Cu tube/ Al Fin)	Round tube mechanical expanded (Al tube/ Al Fin)
Required space	100%	100%
Tube weight	100%	66%
Heat exchanger weight	100%	83%
Tube cost per heat exchanger	100%	30% - 50%
Burst Pressure	100%	100%

MICRO-CHANNEL HEAT EXCHANGERS

Our Micro-Channel heat exchangers are designed to deliver exceptional efficiency and performance.

Advantages of Micro-Channel Technology:

- **Energy-Efficient Design:** Reduced internal tube diameter decreases refrigerant charge, minimizing refrigerant usage, environmental impact, and operational costs.
- **High Heat Transfer Efficiency:** Micro-Channel's tiny refrigerant channels create turbulent flow, enhancing heat transfer and increasing primary surface area for optimal performance.
- **Single Metal Concept:** Constructed from a single metal, Micro-Channel technology eliminates electrochemical potential differences, extending product lifespan.
- **Superior Durability:** A brazed metallurgical bond maximizes surface contact, enhancing durability compared to mechanically bonded alternatives.
- **Compact and Lightweight:** Aluminum's low density and cost-effectiveness allow for a lighter heat exchanger, ideal for weight-sensitive applications.

Key Features:

Complete in-house design and manufacturing
Customizable to specific requirements
Anti-corrosive coating for durability
Reduced refrigerant use, eco-friendly operation

Applications:

Suitable for Condensers, Evaporators, Heating Coils, Industrial Coils & other special HVAC Applications



We manufacture Micro-Channel Replacement coils compatible with Carrier, York, Daikin, and other chiller models.



VERTICAL/HORIZONTAL HEAT RECOVERY HEAT PIPES

Heat Pipes are energy-efficient solutions for air handling and moisture control in HVAC systems. Key product features include:

Wrap-Around Heat Pipes: Consisting of two sections, these heat pipes enhance moisture extraction and temperature control. The Pre-Cool Coil absorbs heat, which the Reheat Coil then reuses, achieving lower humidity and improved air quality.

Heat Recovery Heat Pipes: Designed for applications where low-humidity air is essential, including manufacturing, healthcare, clean rooms, and data centers. These pipes capture waste heat, adding it to incoming air streams, with no cross-contamination and reduced operational costs.

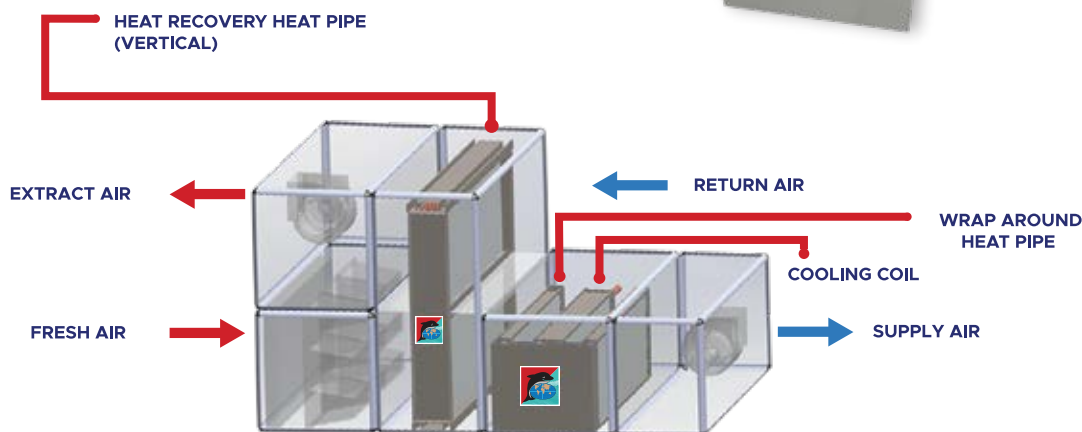
Key Benefits:

- Advanced Heat Recovery Technology
- Plug & Play Into Existing Air-conditioning Systems
- Significantly Reduces Moisture In The Air
- No External Power Source Required
- Zero Cross Contamination
- Easy Condensation Drainage
- Significantly Improves Air Quality

Material Options for Diverse Needs

- **Tubes:** Copper.
- **Fins:** Aluminum or Copper, with hydrophilic precoating (blue), Thermoguard coating (silver), or Heresite coating (brown/gray).
- **Casing:** Galvanized or Stainless Steel.

DESIGN & MANUFACTURE



QUALITY YOU CAN TRUST

Product quality is at the core of our operations, supported by meticulous internal processes and a commitment to excellence. We continuously invest in product certifications, advanced manufacturing techniques, and a comprehensive quality management system. Our quality-focused approach optimizes internal procedures, allowing us to handle diverse projects while maintaining high standards and precise attention to detail.

To uphold these standards, we develop project-specific Quality and Test Plans, ensure full material traceability with quality certifications, and conduct ongoing visual and dimensional inspections.

PRODUCT CERTIFICATION

AHRI Certification

Our products carry AHRI certification for performance verification, including continuous fin-type heat exchangers. These ratings, verified annually by an independent research organization, confirm that our technical specifications—covering fluid and airside pressure drops—are accurate and reliable

QUALITY SYSTEM CERTIFICATION

Our Quality Management System is certified to ISO standards, demonstrating our commitment to quality, environmental management, and workplace safety:

- ISO 9001:2015 – Ensuring consistent quality in our products and processes.
- ISO 14001:2015 – Emphasizing environmental responsibility in our operations.
- ISO 45001:2018 – Focused on occupational health and safety.



MANUFACTURING FACILITY

Our facility combines state-of-the-art production machinery with advanced design and ERP software to meet the highest standards of quality and service. This integration allows us to optimize operations, ensuring that we meet customer demands with precision and efficiency.

DESIGN

Our design team uses leading software to model and analyze each component and sub-component, preventing production issues before they arise. All necessary data is extracted from 3D models to program our CNC machinery, including fin presses, tube formers, header drills, and CNC laser cutting machines. This system enables precise, accurate production and provides seamless communication across design, production, quality control, and final inspection.



MANUFACTURING TECHNOLOGIES

We utilize cutting-edge machinery sourced from top suppliers worldwide to ensure high product quality. Our production lines are highly automated, allowing us to achieve maximum operational flexibility. This efficiency enables us to offer short lead times, even during peak seasons, providing a competitive advantage in customer responsiveness.

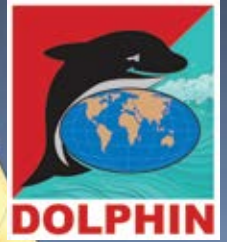


MANUFACTURING CONTROL

We monitor production in real-time, assessing workloads daily to anticipate and resolve potential bottlenecks. This proactive approach reduces delays and ensures on-time delivery, enhancing customer satisfaction. Additionally, we provide timely updates on manufacturing progress and delivery status for full transparency.

DELIVERING EXCELLENCE IN HVAC SOLUTIONS

With expertise in HVAC and a commitment to quality, we're here to provide reliable solutions tailored to your needs. Count on us for precision, performance, and partnership you can trust.



DOLPHIN WORLDWIDE LOCATIONS



CONTACT US

Dolphin HVAC

A *Dolphin Global Holding* Company

Ajman Industrial 1

P.O.Box 20678, Ajman, UAE

Phone : +971-6-7032999

Fax : +971-6-7032929

Email : info@dolrad.ae

Website : www.dolphinhvac.ae



SCAN TO
CONNECT

