

'26 CATALOGUE



rack / central refrigeration systems | industrial refrigeration units | **split refrigeration unit**
industrial open type refrigeration unit | **industrial water refrigeration units** | monoblock refrigeration units

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EDSO®



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About Us

As **EDSO REFRIGERATION**, we continuously renew ourselves and respond to our customers' needs with our expanding range of services in the refrigeration industry. Today, we manufacture, sell, and install various units tailored to different capacities, such as Central Refrigeration Systems, Industrial Refrigeration Units, Split Refrigeration Units, and Industrial Open Type Refrigeration Units, all equipped with the latest technology in industrial refrigeration systems. In every project, we aim to offer the most efficient solutions to meet our customers' business requirements, providing high-performance and long-lasting systems.

Additionally, we provide advanced engineering solutions in product groups such as Industrial Heat Exchangers, Condensers, Box Condensers, and Monoblock Units, prioritizing energy efficiency and sustainability. We offer a wide range of products in heat exchangers and develop customized solutions to meet the cooling needs of various businesses.

With our project design, contracting, consultancy, technical support, and site assessment services, we support our customers at every stage. Especially through our project design and site assessment services, we ensure that cooling systems are implemented with optimal cost and performance. Our contracting and technical service team provides post-installation maintenance and support services to ensure systems operate reliably and have a long service life.

We are extending our success in the domestic market to the global arena with export activities in countries such as **Germany, Albania, the United States, the United Kingdom, Poland, Portugal, Romania, Norway, Kuwait, the United Arab Emirates, Azerbaijan, and Georgia**. Our products, entirely domestically manufactured, are also preferred in these markets for their reliability and quality.

As **EDSO REFRIGERATION**, we continue to offer top-level services to our customers by leveraging our experience, strong technical team, and technological infrastructure in the industry.





Quality Policy

At **EDSO REFRIGERATION**, we do not limit our quality approach to merely meeting customer expectations; we aim to exceed these expectations by providing pioneering and reliable solutions in the industry.

By developing holistic, sustainable, and innovative solutions in industrial refrigeration and cold storage systems, we respond to our customers' needs in the most appropriate way. Accordingly, we use the highest quality materials in every project and offer flawless installation services to ensure that our systems operate efficiently and have a long service life.

The foundation of our quality policy is to maintain the highest level of customer satisfaction and provide transparent, professional, and solution-oriented service at every stage.

From production to installation, after-sales support to technical service, we offer solutions that comply with international standards and embrace the principle of continuous improvement.

As **EDSO REFRIGERATION**, we continue to be a symbol of quality and trust in the industry with environmentally friendly and energy-efficient systems. By sharing this quality approach with all our employees, suppliers, and business partners, we continue to deliver lasting, reliable, and value-added projects to our customers.



We Produce for the World.

As **EDSO Refrigeration**, our company, which has been steadily growing in the Turkish market, successfully offers our domestically manufactured products in many countries around the world. Thanks to our customer-oriented approach and quality production, we have a strong presence not only in Türkiye but also in the international market.

Among the countries that confidently use our cooling solutions are:

- United States
- Germany
- Albania
- Azerbaijan
- United Arab Emirates
- Georgia
- United Kingdom
- Romania
- Portugal
- Poland
- Norway
- Angola
- Palestine
- Tanzania
- Canada
- Slovenia
- Australia

Our company continues to enhance its effectiveness in the global market every day, providing the most innovative and reliable cooling solutions to its customers.



Rack / Central Refrigeration Systems

Advanced Cooling Solutions for Maximum Efficiency

At EDSO REFRIGERATION, we specialize in providing advanced Rack / Central Refrigeration Systems designed to meet the demanding needs of various industries. Our product range includes Double Stage Rack Systems, Semi-Hermetic Rack Systems, and Scroll Central Systems, all meticulously engineered to deliver optimal performance and energy efficiency.

These systems are equipped with state-of-the-art technology to ensure reliable, long-lasting cooling solutions that support your operational requirements. With a commitment to quality and innovation, our Central Refrigeration Systems are the ideal choice for businesses seeking sustainable and effective cooling solutions.

EDSO REFRIGERATION's expertise guarantees that each system we deliver is tailored to maximize efficiency, reduce environmental impact, and enhance productivity across industries.



Double Stage Rack System

TECHNICAL SPECIFICATIONS

CAPACITY EN12900

Blast Freezer Operational Conditions Range
-45°C / -25°C

Blast Freezer Application Capacity Range
8 kW - 545 kW

COMPRESSOR

Type	Double Stage Semi-Hermetic
Brand	Bock / Bitzer / Dorin / Frascold
Nominal Power Range	5 HP - 65 HP
Pieces	2 - 8 pcs
Voltage	380V - 420V / 3 PH / 50 - 60 Hz
Refrigerant	R404A / R407F / R448A / R449A

CONDENSER

Type	Remote / Housed
Fan Speed	High Speed / Low Speed
Fin	Aluminium
Tube Material	Copper
Design Condition (ΔT)	5K - 15K

RACK / CENTRAL REFRIGERATION SYSTEMS

EQUIPMENTS

CONTROL

Eliwell, Dixell Danfoss, Carel Controllers

IP55-65 Electrical Box

Compressor Inverter OPT.

Fan Inverter OPT.

MECHANIC

Double Stage Compressor

Compressor Service Valve

Check Valve

Discharge Line Vibration Absorber

Suction Line Vibration Absorber

Liquid Receiver

Liquid Receiver Service Valve Control

Liquid Line Filter Drier Shells

Suction Line Filter Drier Shells

Liquid Line Sight Glass

Suction Line Accumulators

Liquid Line Service Valve

Air Cooled / Water Cooled Condenser

Close Type And Open Type

Heat Recovery OPT.

LUBRICATION CONTROL

Oil Separator

Oil Receiver

Oil Check Valve

Oil Filter

Oil Line Service Valve

Electronic Oil Level Regulators OPT.

Oil Differential Pressure Switch OPT.

PRESSURE CONTROL

Dual Pressure Switch

Low/High Pressure Manometer

Low/High Pressure Switch

Semi-Hermetic Rack System

TECHNICAL SPECIFICATIONS

CAPACITY	EN12900
Freezer Operational Condition Range	-25°C / +45°C
Chiller Operational Condition Range	-10°C / +45°C
Freezer Application Capacity Range	1 kW - 507 kW
Chiller Application Capacity Range	2 kW - 1010 kW

COMPRESSOR	
Type	Semi-Hermetic
Brand	Bock / Bitzer / Dorin / Frascold
Nominal Power Range	5 HP - 120 HP
Pieces	2 - 8 pcs
Voltage	380V - 420V / 3 PH / 50 - 60 Hz
Refrigerant	R404A / R407F / R448A / R449A

CONDENSER	
Type	Remote / Housed
Fan Speed	High Speed / Low Speed
Fin	Aluminium
Tube Material	Copper
Design Condition (ΔT)	5 K - 15 K

RACK / CENTRAL REFRIGERATION SYSTEMS

EQUIPMENTS

CONTROL	
Eliwell, Dixell Danfoss, Carel Controllers	
IP55-65 Electrical Box	
Compressor Inverter	OPT.
Fan Inverter	OPT.

MECHANIC	
Semi Hermetic Compressor	
Compressor Service Valve	
Check Valve	
Discharge Line Vibration Absorber	
Suction Line Vibration Absorber	
Liquid Receiver	
Liquid Receiver Service Valve Control	
Liquid Line Filter Drier Shells	
Liquid Line Sight Glass	
Suction Line Accumulators	OPT.
Liquid Line Service Valve	
Air Cooled / Water Cooled Condenser	
Suction Line Filter Drier Shells	OPT.
Close Type and Open Type	OPT.
Heat Recovery	OPT.

LUBRICATION CONTROL	
Oil Separator	
Oil Receiver	
Oil Check Valve	
Oil Filter	
Oil Line Service Valve	
Electronic Oil Level Regulators	OPT.
Oil Differential Pressure Switch	OPT.

PRESSURE CONTROL	
Dual Pressure Switch	
Low/High Pressure Manometer	
Low/High Pressure Switch	



Scroll Central System

TECHNICAL SPECIFICATIONS

CAPACITY	EN12900
Freezer Operational Condition Range	-25°C / +45°C
Chiller Operational Condition Range	-10°C / +45°C
Freezer Application Capacity Range	2 kW -130 kW
Chiller Application Capacity Range	3,6 kW - 255 kW

COMPRESSOR

Type	Scroll
Brand	Bitzer / Copeland / Danfoss / Embraco
Nominal Power Range	0.5 HP - 80 HP
Pieces	2 - 12 pcs
Voltage	380V - 420V / 3 PH / 50-60 Hz
Refrigerant	R404A / R407F / R448A / R449A

CONDENSER

Type	Remote
Fan Speed	High Speed / Low Speed
Fin	Aluminium
Tube Material	Copper
Design Condition (ΔT)	5K - 15K

RACK / CENTRAL REFRIGERATION SYSTEMS

EQUIPMENTS

CONTROL

Eliwell, Dixell, Danfoss, Carel Controllers	
IP55-65 Electrical Box	
Compressor Inverter	OPT.
Fan Inverter	OPT.

MECHANIC

Scroll Compressor	
Compressor Service Valve	
Check Valve	
Discharge Line Vibration Absorber	OPT.
Suction Line Vibration Absorber	OPT.
Liquid Receiver	
Liquid Receiver Service Valve Control	
Liquid Line Filter Drier / Shells	
Liquid Line Sight Glass	
Suction Line Accumulators	
Liquid Line Service Valve	
Air Cooled Condenser	
Suction Line Filter Drier Shells	OPT.
Close Type and Open Type	OPT.
Heat Recovery	OPT.

LUBRICATION CONTROL

Oil Separator	
Oil Receiver	OPT.
Oil Check Valve	OPT.
Oil Filter	OPT.
Oil Line Service Valve	OPT.
Electronic Oil Level Regulators	OPT.
Oil Differential Pressure Switch	OPT.

PRESSURE CONTROL

Dual Pressure Switch
Low/High Pressure Manometer
Low/High Pressure Switch



Industrial Refrigeration Unit

Reliable Cooling Solutions for Industrial Power

At EDSO REFRIGERATION, we provide reliable and high-performance cooling solutions tailored to meet the demanding needs of the industrial sector.

Our product range includes Double Stage Condensing Units and Semi-Hermetic Condensing Units, each designed to deliver superior cooling capacity required by industrial facilities.

Equipped with modern technologies, our Industrial Refrigeration Units are specially designed to offer long-lasting, efficient, and environmentally friendly solutions. In every project, we aim to provide systems that maximize energy savings while aligning with the operational needs of businesses.

EDSO REFRIGERATION's refrigeration units are an essential component of industrial



Double Stage Condensing Unit

TECHNICAL SPECIFICATIONS

CAPACITY EN12900

Blast Freezer Operational Conditions Range
-45°C / -25°C

Blast Freezer Application Capacity Range
2,2 kW - 32,2 kW

COMPRESSOR

Type	Double Stage Semi-Hermetic
Brand	Bock / Bitzer / Dorin / Frascold
Nominal Power Range	7.5 HP - 65 HP
Pieces	1 pcs
Voltage	380V - 420V / 3 PH / 50 - 60 Hz
Refrigerant	R404A / R407F / R448A / R449A

CONDENSER

Type	Box Condenser
Fan Speed	High Speed / Low Speed
Fin	Aluminium
Tube Material	Copper
Design Condition (ΔT)	5K - 15K

INDUSTRIAL REFRIGERATION UNITS

EQUIPMENTS

CONTROL

Eliwell, Dixell, Danfoss, Carel Controllers	OPT.
IP55-65 Electrical Box	
Compressor Inverter	OPT.
Fan Inverter	OPT.

MECHANIC

Double Stage Compressor	
Compressor Service Valve	
Discharge Line Vibration Absorber	
Suction Line Vibration Absorber	
Liquid Receiver	
Liquid Receiver Service Valve Control	
Liquid Line Filter Drier Shells	
Suction Line Filter Drier Shells	OPT.
Liquid Line Sight Glass	
Suction Line Accumulators	
Liquid Line Service Valve	
Air Cooled Condenser	
Check Valve	OPT.
Heat Recovery	OPT.

LUBRICATION CONTROL

Oil Separator	
Oil Differential Pressure Switch	OPT.
Oil Line Service Valve	OPT.
Electronic Oil Level Regulators	OPT.
Oil Receiver	OPT.
Oil Check Valve	OPT.
Oil Filter	OPT.

PRESSURE CONTROL

Dual Pressure Switch	
Low/High Pressure Manometer	
Low/High Pressure Switch	

Semi-Hermetic Condensing Unit

TECHNICAL SPECIFICATIONS

CAPACITY	EN12900
Freezer Operational Condition Range	-25°C / +45°C
Chiller Operational Condition Range	-10°C / +45°C
Freezer Application Capacity Range	1 kW - 63 kW
Chiller Application Capacity Range	2 kW - 126 kW

COMPRESSOR

Type	Semi-Hermetic
Brand	Bock/Bitzer/Dorin/Frascold
Nominal Power Range	0.5 HP - 80 HP
Pieces	1 pcs
Voltage	380V - 420V / 3 PH / 50-60 Hz
Refrigerant	R404A / R407F / R448A / R449A

CONDENSER

Type	Box Condenser
Fan Speed	High Speed / Low Speed
Fin	Aluminium
Tube Material	Copper
Design Condition (ΔT)	5K - 15K

INDUSTRIAL REFRIGERATION UNITS

EQUIPMENTS

CONTROL

Eliwell, Dixell Danfoss, Carel Controllers	
IP55-65 Electrical Box	
Compressor Inverter	OPT.
Fan Inverter	OPT.

MECHANIC

Semi-Hermetic Compressor	
Compressor Service Valve	
Discharge Line Vibration Absorber	
Liquid Receiver	
Liquid Receiver Service Valve Control	
Liquid Line Filter Drier Shells	
Liquid Line Sight Glass	
Liquid Line Service Valve	
Air Cooled Condenser	
Check Valve	OPT.
Suction Line Vibration Absorber	OPT.
Suction Line Filter Drier Shells	OPT.
Suction Line Accumulators	OPT.
Heat Recovery	OPT.

LUBRICATION CONTROL

Oil Separator	
Oil Receiver	OPT.
Oil Check Valve	OPT.
Oil Filter	OPT.
Oil Line Service Valve	OPT.
Electronic Oil Level Regulators	OPT.
Oil Differential Pressure Switch	OPT.

PRESSURE CONTROL

Dual Pressure Switch	
Low/High Pressure Manometer	
Low/High Pressure Switch	OPT.





Engineered to Preserve Freshness



Split Refrigeration Unit

Flexible and Efficient Cooling Solutions

At EDSO REFRIGERATION, we offer flexible and efficient Split Refrigeration Units designed to meet a variety of industrial and commercial needs.

Our product range includes Semi-Hermetic Split Units, Scroll Split Units, and Hermetic Split Units, each meticulously engineered to provide high performance and energy efficiency.

Our Split Refrigeration Units offer easy installation and maintenance advantages, effectively meeting diverse cooling requirements.

At EDSO REFRIGERATION, we provide solutions tailored to the needs of businesses, enhancing efficiency with systems that deliver optimal cooling in every setting. Known for their eco-friendly and durable design, our Split Refrigeration Units are the preferred choice for businesses seeking reliable cooling solutions.



Scroll Split Unit

TECHNICAL SPECIFICATIONS

CAPACITY	EN12900
Freezer Operational Condition Range	-25°C / +45°C
Chiller Operational Condition Range	-10°C / +45°C
Freezer Application Capacity Range	2 kW - 10,8 kW
Chiller Application Capacity Range	3,6 kW - 21,3 kW

COMPRESSOR

Type	Scroll
Brand	Bitzer/Copeland/Danfoss/Embraco
Nominal Power Range	2 HP - 15 HP
Pieces	1 pcs
Voltage	380V - 420V / 3 PH / 50-60 Hz 220V - 240V / 1 PH / 50-60 Hz
Refrigerant	R404A / R407F / R448A / R449A

CONDENSER

Type	Box Condenser
Fan Speed	High Speed / Low Speed
Fin	Aluminium
Tube Material	Copper
Design Condition (ΔT)	5K - 15K

SPLIT REFRIGERATION UNITS

EQUIPMENTS

CONTROL

Eliwell, Dixell, Danfoss, Carel Controllers	
IP55-65 Electrical Box	OPT.
Compressor Inverter	OPT.
Fan Inverter	OPT.

MECHANIC

Scroll Compressor	
Compressor Service Valve	
Liquid Receiver	
Liquid Receiver Service Valve Control	
Liquid Line Filter Drier	
Liquid Line Sight Glass	
Liquid Line Service Valve	
Air Cooled Condenser	
Check Valve	
Discharge Line Vibration Absorber	OPT.
Suction Line Vibration Absorber	OPT.
Solenoid Valve	OPT.
Suction Line Accumulators	OPT.
Heat Recovery	OPT.

LUBRICATION CONTROL

Oil Separator	
Oil Receiver	OPT.
Oil Check Valve	OPT.
Oil Filter	OPT.
Oil Line Service Valve	OPT.
Electronic Oil Level Regulators	OPT.
Oil Differential Pressure Switch	OPT.

PRESSURE CONTROL

Dual Pressure Switch	
Low/High Pressure Manometer	
Low/High Pressure Switch	

Hermetic Split Unit

TECHNICAL SPECIFICATIONS

CAPACITY	EN12900
Freezer Operational Condition Range	-25°C / +45°C
Chiller Operational Condition Range	-10°C / +45°C
Freezer Application Capacity Range	1 kW - 5 kW
Chiller Application Capacity Range	1,4 kW - 10,4 kW

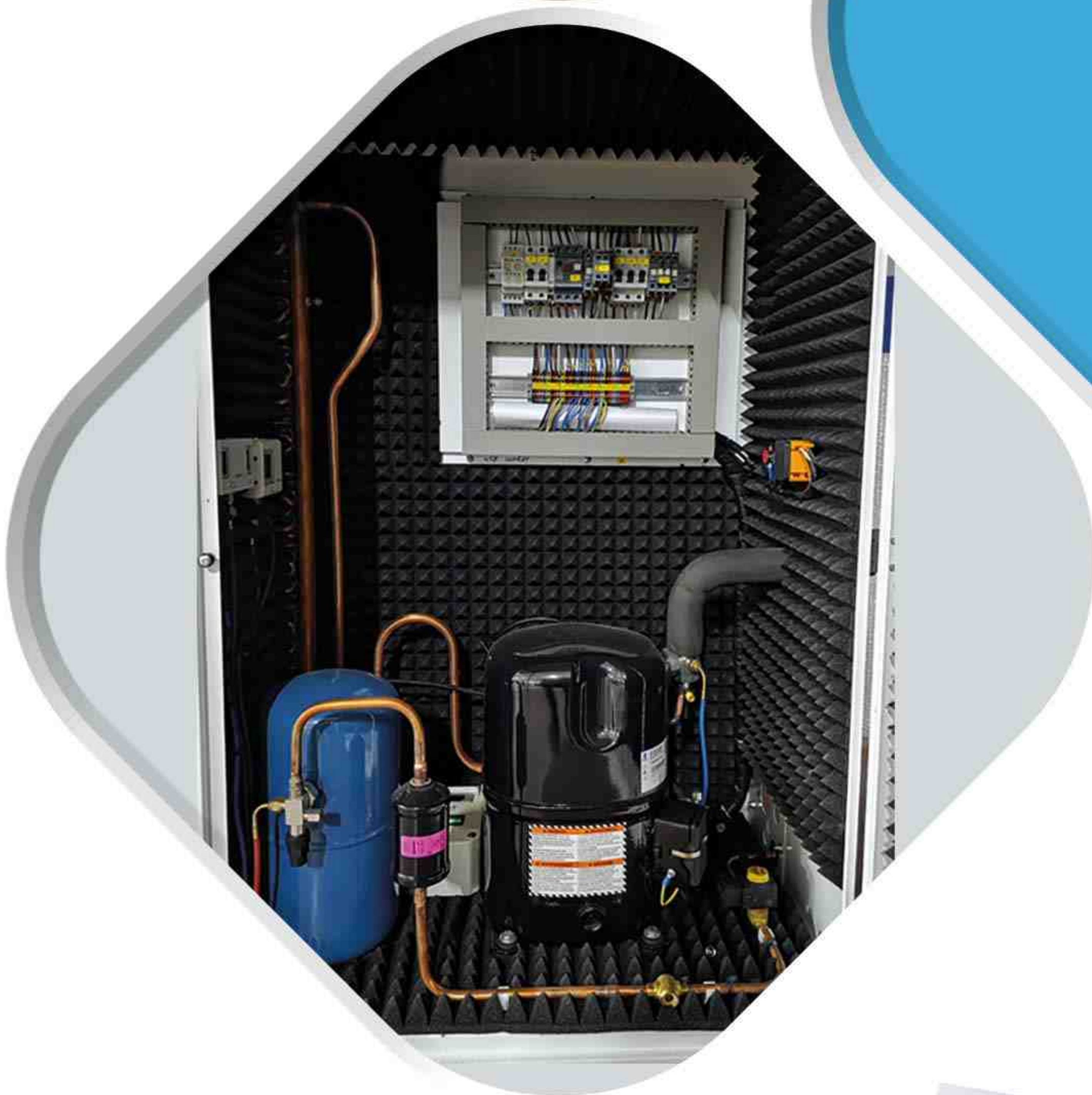
COMPRESSOR	
Type	Hermetic
Brand	Tecumseh / Danfoss / Embraco
Nominal Power Range	0.5 HP - 13HP
Pieces	1 pcs
Voltage	380V - 420V / 3 PH / 50-60 Hz 220V - 240V / 1 PH / 50-60 Hz
Refrigerant	R404A / R407F / R448A / R449A

CONDENSER	
Type	Remote / Housed
Fan Speed	High Speed / Low Speed
Fin	Aluminium
Tube Material	Copper
Design Condition (ΔT)	5 K - 15 K

SPLIT REFRIGERATION UNITS

EQUIPMENTS

CONTROL	
Eliwell, Dixell Danfoss, Carel Controllers	
IP55-65 Electrical Box	OPT.
Compressor Inverter	OPT.
Fan Inverter	OPT.
MECHANIC	
Hermetic Compressor	
Compressor Service Valve	
Liquid Receiver	
Liquid Receiver Service Valve Control	
Liquid Line Filter Drier	
Liquid Line Sight Glass	
Liquid Line Service Valve	
Air Cooled Condenser	
Check Valve	OPT.
Discharge Line Vibration Absorber	OPT.
Suction Line Vibration Absorber	OPT.
Solenoid Valve	OPT.
Suction Line Accumulators	OPT.
Heat Recovery	OPT.
LUBRICATION CONTROL	
Oil Separator	OPT.
Oil Filter	OPT.
Oil Line Service Valve	OPT.
PRESSURE CONTROL	
Dual Pressure Switch	OPT.
Low/High Pressure Manometer	OPT.
Low/High Pressure Switch	OPT.





Pure Cold
Perfect Performance



Industrial Open Type Refrigeration Units

Robust and Durable Solutions for Challenging Conditions

Introduction Text: At **EDSO REFRIGERATION**, we offer cooling solutions that are resilient to the high-capacity and demanding conditions of the industrial sector.

Our product range includes Screw Compressor Open Type Units, Double Stage Open Type Units, Semi-Hermetic Open Type Units, Scroll Open Type Units, and Hermetic Open Type Units, addressing a broad spectrum of needs. Each unit is carefully designed to deliver high performance and long-lasting durability.

Our open type refrigeration units provide reliable performance and a sturdy build, making them the perfect solution for the challenging requirements of industrial facilities. At **EDSO REFRIGERATION**, we deliver energy-efficient and environmentally friendly systems that best meet the demands of industrial environments, offering long-term benefits to our customers. Our Industrial Open Type Refrigeration Units are the ideal choice for efficient cooling, even under the most challenging conditions.



Screw Compressor Open Type Unit

TECHNICAL SPECIFICATIONS

CAPACITY	EN12900
Freezer Operational Condition Range	-25°C / +45°C
Chiller Operational Condition Range	-10°C / +45°C
Freezer Application Capacity Range	21 kW - 1120 kW
Chiller Application Capacity Range	41 kW - 2204 kW

COMPRESSOR

Type	Screw
Brand	Bitzer/Frascold/Hanbell
Nominal Power Range	20HP - 320HP
Pieces	1 pcs
Voltage	380V - 420V / 3 PH / 50-60 Hz
Refrigerant	R404A / R407F / R448A / R449A

CONDENSER

Type	Remote
Fan Speed	High Speed / Low Speed
Fin	Aluminium
Tube Material	Copper
Design Condition (ΔT)	5K - 15K

INDUSTRIAL OPEN TYPE REFRIGERATION UNITS

EQUIPMENTS

CONTROL

Eliwell, Dixell, Danfoss, Carel Controllers

IP55-65 Electrical Box

Compressor Inverter OPT.

Fan Inverter OPT.

MECHANIC

Screw Compressor, Double Stage Screw Compressor

Compressor Service Valve

Check Valve

Discharge Line Vibration Absorber

Suction Line Vibration Absorber

Liquid Receiver

Liquid Receiver Service Valve Control

Liquid Line Filter Drier Shells

Suction Line Filter Drier Shells

Liquid Line Sight Glass

Suction Line Accumulators

Liquid Line Service Valve OPT.

Air Cooled Condenser / Shell and Tube OPT.

Close Type and Open Type OPT.

Heat Recovery

LUBRICATION CONTROL

Oil Separator

Oil Receiver

Oil Filter

Oil Line Service Valve

Electronic Oil Level Sensor

Oil Differential Pressure Switch

PRESSURE CONTROL

Dual Pressure Switch

Low/High Pressure Manometer

Low/High Pressure Switch

Double Stage Open Type Unit

TECHNICAL SPECIFICATIONS

CAPACITY EN12900

Blast Freezer Operational
Conditions Range -45°C / -25°C

Blast Freezer Application
Capacity Range 2,2 kW - 32,2 kW

COMPRESSOR

Type	Semi-Hermetic Double Stage
Brand	Bock / Bitzer / Dorin / Frascold
Nominal Power Range	7,5 HP - 65 HP
Pieces	1 pcs
Voltage	380V - 420V / 3 PH / 50-60 Hz
Refrigerant	R404A / R407F / R448A / R449A

CONDENSER

Type	Chassis Condenser Type
Fan Speed	High Speed / Low Speed
Fin	Aluminium
Tube Material	Copper
Design Condition (ΔT)	5K - 15K

INDUSTRIAL OPEN TYPE REFRIGERATION UNITS

EQUIPMENTS

CONTROL

Eliwell, Dixell, Danfoss, Carel Controllers	
IP55-65 Electrical Box	OPT.
Compressor Inverter	OPT.
Fan Inverter	OPT.

MECHANIC

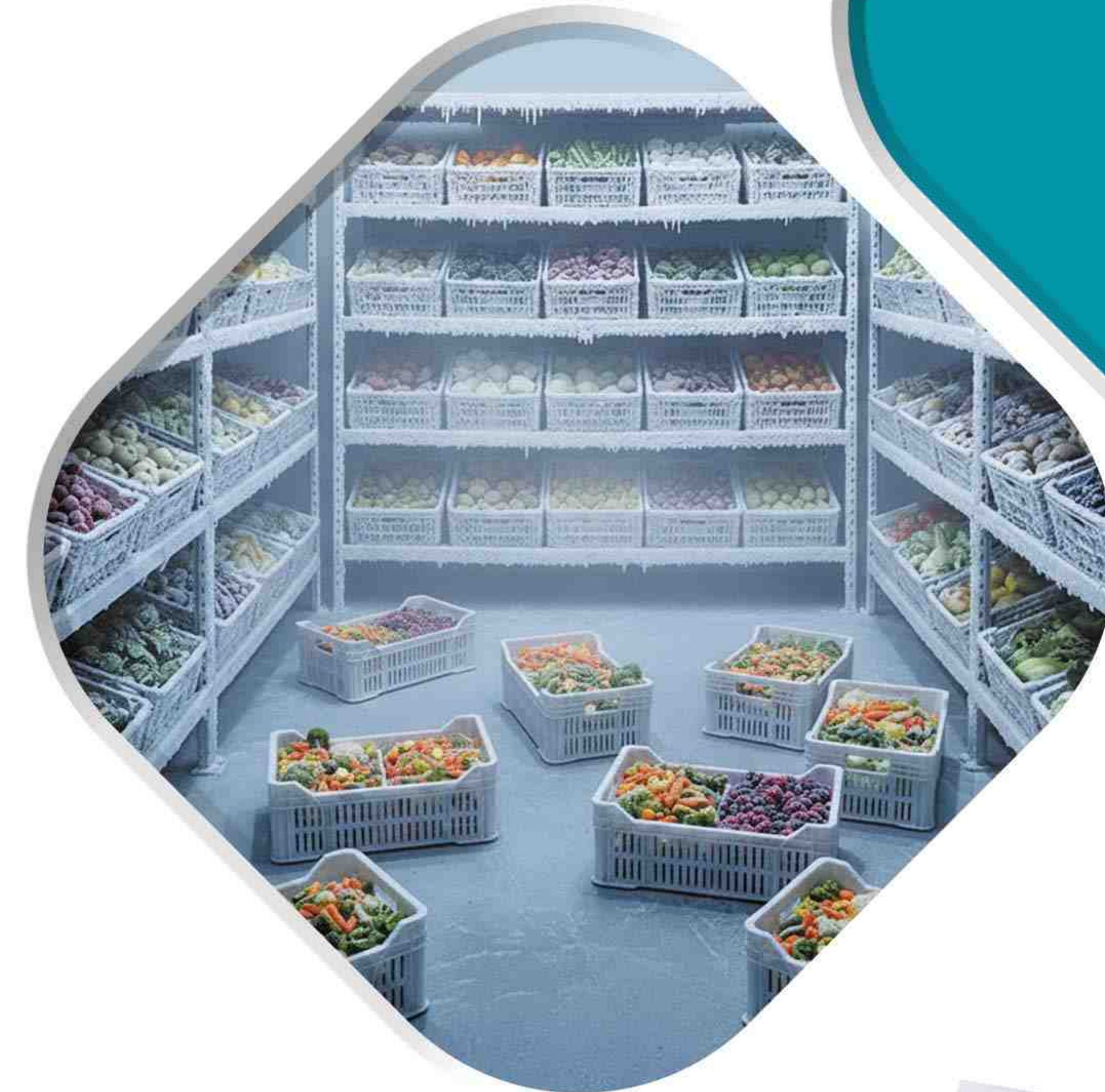
Double Stage Compressor	
Compressor Service Valve	
Discharge Line Vibration Absorber	
Suction Line Vibration Absorber	
Liquid Receiver	
Liquid Receiver Service Valve Control	
Liquid Line Filter Drier Shells	
Liquid Line Sight Glass	
Suction Line Accumulators	OPT.
Liquid Line Service Valve	OPT.
Air Cooled Condenser	OPT.
Check Valve	OPT.
Suction Line Filter Drier Shells	OPT.
Heat Recovery	OPT.

LUBRICATION CONTROL

Oil Separator	
Oil Differential Pressure Switch	OPT.
Oil Receiver	OPT.
Oil Check Valve	OPT.
Oil Filter	OPT.
Oil Line Service Valve	OPT.
Electronic Oil Level Regulators	OPT.

PRESSURE CONTROL

Dual Pressure Switch	
Low/High Pressure Manometer	
Low/High Pressure Switch	



Semi-Hermetic Open Type Unit

TECHNICAL SPECIFICATIONS

CAPACITY	EN12900
Freezer Operational Condition Range	-25°C / +45°C
Chiller Operational Condition Range	-10°C / +45°C
Freezer Application Capacity Range	1 kW - 63 kW
Chiller Application Capacity Range	2 kW - 126 kW

COMPRESSOR

Type	Semi-Hermetic
Brand	Bock / Bitzer / Dorin / Frascold
Nominal Power Range	0,5 HP - 20 HP
Pieces	1 pcs
Voltage	380V - 420V / 3 PH / 50-60 Hz
Refrigerant	R404A / R407F / R448A / R449A

CONDENSER

Type	Chassis Condenser Type
Fan Speed	High Speed / Low Speed
Fin	Aluminium
Tube Material	Copper
Design Condition (ΔT)	5K-15K

INDUSTRIAL OPEN TYPE REFRIGERATION UNITS

EQUIPMENTS

CONTROL

Eliwell, Dixell, Danfoss, Carel Controllers	
IP55-65 Electrical Box	OPT.
Compressor Inverter	OPT.
Fan Inverter	OPT.

MECHANIC

Semi Hermetic Compressor	
Compressor Service Valve	
Discharge Line Vibration Absorber	
Suction Line Vibration Absorber	
Liquid Receiver	
Liquid Receiver Service Valve Control	
Liquid Line Filter Drier	
Liquid Line Sight Glass	
Liquid Line Service Valve	
Air Cooled Condenser	
Check Valve	OPT.
Solenoid Valve	OPT.
Suction Line Accumulators	OPT.
Heat Recovery	OPT.

LUBRICATION CONTROL

Oil Separator	
Oil Differential Pressure Switch	OPT.
Oil Receiver	OPT.
Oil Check Valve	OPT.
Oil Filter	OPT.
Oil Line Service Valve	OPT.
Electronic Oil Level Regulators	OPT.

PRESSURE CONTROL

Dual Pressure Switch	
Low/High Pressure Manometer	
Low/High Pressure Switch	OPT.

Scroll Open Type Unit

TECHNICAL SPECIFICATIONS

CAPACITY	EN12900
Freezer Operational Condition Range	-25°C / +45°C
Chiller Operational Condition Range	-10°C / +45°C
Freezer Application Capacity Range	2 kW - 10,8 kW
Chiller Application Capacity Range	3,6 kW - 21,3 kW

COMPRESSOR

Type	Scroll
Brand	Bitzer/Copeland/Danfoss/Embraco
Nominal Power Range	2 HP - 15 HP
Pieces	1 pcs
Voltage	380V - 420V / 3 PH / 50-60 Hz 220V - 240V / 1 PH / 50-60 Hz
Refrigerant	R404A / R407F / R448A / R449A

CONDENSER

Type	Remote / Housed
Fan Speed	High Speed / Low Speed
Fin	Aluminium
Tube Material	Copper
Design Condition (ΔT)	5K - 15K

INDUSTRIAL OPEN TYPE REFRIGERATION UNITS

EQUIPMENTS

CONTROL

Eliwell, Dixell Danfoss, Carel Controllers	
IP55-65 Electrical Box	OPT.
Compressor Inverter	OPT.
Fan Inverter	OPT.

MECHANIC

Scroll Compressor	
Compressor Service Valve	
Liquid Receiver	
Liquid Receiver Service Valve Control	
Liquid Line Filter Drier	
Liquid Line Sight Glass	
Liquid Line Service Valve	
Air Cooled Condenser	
Check Valve	OPT.
Discharge Line Vibration Absorber	OPT.
Suction Line Vibration Absorber	OPT.
Solenoid Valve	OPT.
Suction Line Accumulators	OPT.
Heat Recovery	OPT.

LUBRICATION CONTROL

Oil Separator	OPT.
Oil Receiver	OPT.
Oil Check Valve	OPT.
Oil Filter	OPT.
Oil Line Service Valve	OPT.
Electronic Oil Level Regulators	OPT.

PRESSURE CONTROL

Dual Pressure Switch	
Low/High Pressure Manometer	OPT.
Low/High Pressure Switch	OPT.



Hermetic Open Type Unit

TECHNICAL SPECIFICATIONS

CAPACITY	EN12900
Freezer Operational Condition Range	-25°C / +45°C
Chiller Operational Condition Range	-10°C / +45°C
Freezer Application Capacity Range	1 kW - 5 kW
Chiller Application Capacity Range	1,4 kW - 10,4 kW

COMPRESSOR

Type	Hermetic
Brand	Tecumseh / Danfoss / Embraco
Nominal Power Range	0,5 HP - 13,5 HP
Pieces	1 pcs
Voltage	380V - 420V / 3 PH / 50-60 Hz 220V - 240V / 1 PH / 50-60 Hz
Refrigerant	R404A / R407F / R448A / R449A

CONDENSER

Type	Chassis Condenser Type
Fan Speed	High Speed / Low Speed
Fin	Aluminium
Tube Material	Copper
Design Condition (ΔT)	5K - 15K

INDUSTRIAL OPEN TYPE REFRIGERATION UNITS

EQUIPMENTS

CONTROL

Eliwell, Dixell, Danfoss, Carel Controllers	
IP55-65 Electrical Box	OPT.
Fan Inverter	OPT.

MECHANIC

Hermetic Compressor	
Compressor Service Valve	
Liquid Receiver	
Liquid Receiver Service Valve Control	
Liquid Line Filter Drier	
Liquid Line Sight Glass	
Liquid Line Service Valve	
Air Cooled Condenser	
Check Valve	OPT.
Discharge Line Vibration Absorber	OPT.
Suction Line Vibration Absorber	OPT.
Solenoid Valve	OPT.
Suction Line Accumulators	OPT.
Heat Recovery	OPT.

LUBRICATION CONTROL

Oil Separator	OPT.
Oil Filter	OPT.
Oil Line Service Valve	OPT.

PRESSURE CONTROL

Dual Pressure Switch	
Low/High Pressure Manometer	OPT.
Low/High Pressure Switch	OPT.





Industrial Water Refrigeration Units

Reliable and Efficient Cooling Solutions for Diverse Applications

At **EDSO REFRIGERATION**, we design and manufacture water refrigeration units that meet the growing demands of modern industries. Our systems are tailored to ensure stable cooling performance in a wide variety of applications, from heavy-duty production lines to precision-based industrial processes. With advanced engineering and durable materials, our water cooling units deliver consistent efficiency and operational safety under all conditions.

Our product line covers a broad range of water refrigeration solutions including Closed Circuit Water Refrigeration Units, Open Circuit Refrigeration Towers, Hybrid Refrigeration Systems, and Customized Industrial Chillers. Each unit is engineered to optimize thermal management, reduce energy consumption, and extend equipment lifespan. By combining robust construction with user-focused design, our water refrigeration units provide reliable temperature control, even in environments with high heat loads and continuous operation.

At **EDSO REFRIGERATION**, we are committed to developing energy-saving and environmentally friendly technologies that bring long-term value to our customers. Our Industrial Water Refrigeration Units are the ideal choice for businesses seeking sustainable, efficient, and durable cooling systems for their facilities.



Water Refrigeration Unit

TECHNICAL SPECIFICATIONS

CAPACITY

EN12900

Operational Conditions Range (+2°C / +45°C)
(-18°C / +45°C) (-33°C / +45°C)

Water Outlet Temperature Range (+7°C / -25°C)

Cooling Range (ΔT) 5K

CONDENSER

Type Open Circuit / Closed Circuit / Hybrid

Fan Speed High Speed / Low Speed

Fin Aluminium

Tube Material Copper / Stainless Steel

Design Condition (ΔT) 5K - 15K

PUMP SYSTEM

Pump Type Centrifugal Pump (Single / Double)

Flow Rate 2 m³/h - 300 m³/h

Head 10 m - 60 m

Motor IE3 High Efficiency Motor

INDUSTRIAL WATER REFRIGERATION UNITS

EQUIPMENTS

CONTROL

IP55-65 Electrical Control Box

PLC / Microprocessor Control System

Temperature and Flow Sensors

Frequency Inverter OPT.

MECHANIC

Water Distribution System OPT.

Drift Eliminators OPT.

Basin Heater OPT.

Automatic Water Make-up Valve OPT.

Anti-corrosion Coating OPT.

WATER TREATMENT

Sand Filter OPT.

Chemical Dosing System OPT.

Water Softening / Reverse Osmosis OPT.

PRESSURE & SAFETY

Pressure Relief Valves

Level Switches OPT.

Flow Switch

Expansion Tank OPT.

COMPRESSOR

Type Semi-Hermetic / Scroll / Screw

Brand Bitzer/Dorin/Frascold/Danfoss

Nominal Power Range 2 HP - 320 HP

Pieces 1 pcs - 12 pcs

Voltage 380V-420V / 3 PH / 50-60 Hz

Refrigerant R404A / R407F / R448A / R449A



Monoblock Refrigeration Units

Compact, Plug-and-Play Cooling Solutions

At EDSO REFRIGERATION, our Monoblock Refrigeration Units combine all essential refrigeration components – compressor, condenser, and evaporator – into a single compact body. Delivered pre-charged with refrigerant and fully assembled, these units ensure quick installation, fast commissioning, and immediate use. They are ideal for cold rooms, cold storage warehouses, container coolers, and similar applications where reliable cooling performance is essential.

Each monoblock unit is designed with a compact structure, minimizing space requirements while maximizing efficiency. Equipped with air-cooled condensers, hermetic compressors, hot gas defrost systems, acoustic insulation, and quiet fan technology, these units provide consistent cooling with reduced noise. Environmentally friendly refrigerants such as R290 ensure compliance with modern ecological standards and low global warming potential (GWP), making them both efficient and sustainable. Our monoblock solutions stand out with their plug-and-play design, easy installation, and low maintenance requirements. Ceiling-mounted and wall-mounted options allow flexibility in application, while integrated automatic fan control and robust construction guarantee long-term durability in diverse environments. Monoblock Refrigeration Units are the perfect choice for businesses seeking quick setup, reliable performance, and eco-friendly refrigeration solutions tailored to today's industrial and commercial demands.



Monoblock Refrigeration Unit

TECHNICAL SPECIFICATIONS

CAPACITY	EN12900
Freezer Operational Condition Range	-25°C / +45°C
Chiller Operational Condition Range	-10°C / +45°C
Freezer Application Capacity Range	1 kW - 2,5 kW
Chiller Application Capacity Range	1,4 kW - 4,7 kW

COMPRESSOR

Type	Hermetic / Scroll
Brand	Tecumseh / Danfoss / Embraco
Nominal Power Range	0,5 HP - 3 HP
Voltage	220-240 V / 1Ph / 50-60 Hz (positive) 380-420 V / 3Ph / 50-60 Hz (negative)
Refrigerant	R290 / R452A, R448A, R449A

CONDENSER

Type	Air Cooled (Axial)
Fan Speed	High / Low, EC Inverter
Fin	Aluminium, hydrophilic coating
Tube Material	Copper
Design Condition (ΔT)	5K - 15K

EVAPORATOR

Type	Built-in Forced Air Evaporator
Coil	Cu tube / Al fin
Defrost	Electric / Hot Gas
Airflow	800 - 4.500 m ³ /h

EQUIPMENTS

CONTROL

Digital Controller (Eliwell / Dixell / Carel)	
Temperature & Defrost Probes	
Compressor Inverter	OPT.
Remote Monitoring (Modbus / Ethernet)	OPT.
Fan Inverter (EC/AC)	OPT.

MECHANIC

Ceiling Type / Wall Type compact body	
Factory pre-charged & tested	
Automatic Fan Control	
Liquid Receiver, Sight Glass, Filter Drier	
Service Valves (suction/liquid)	
Solenoid Valve	OPT.
Acoustic Insulation (low-noise package)	OPT.

DEFROST & DRAIN

Electric / Hot Gas Defrost	
Condensate Drain Pan Heater	OPT.
Drain Kit (hose & trap)	OPT.

PRESSURE & SAFETY

Dual Pressure Pressostat	
Low/High Pressure Manometer	OPT.
Low/High Pressure Transducer	OPT.
Oil Crankcase Heater (Compressor)	

MONOBLOCK REFRIGERATION UNITS



Sustainability

As **EDSO REFRIGERATION**, we place sustainability at the core of our business strategy and diligently fulfill our environmental responsibilities. Our production processes are designed with an environmentally conscious and energy-efficient approach.

By utilizing green energy sources in our facilities, we minimize our carbon footprint and optimize our water consumption through sustainable water treatment methods. This eco-friendly production concept not only protects nature but also creates healthy and productive working environments for our employees.

All of our air coolers, dry coolers, and condensers are designed to operate with the lowest possible water and energy consumption. This innovative technology helps our customers maximize energy savings while contributing to the preservation of the world's valuable natural resources.

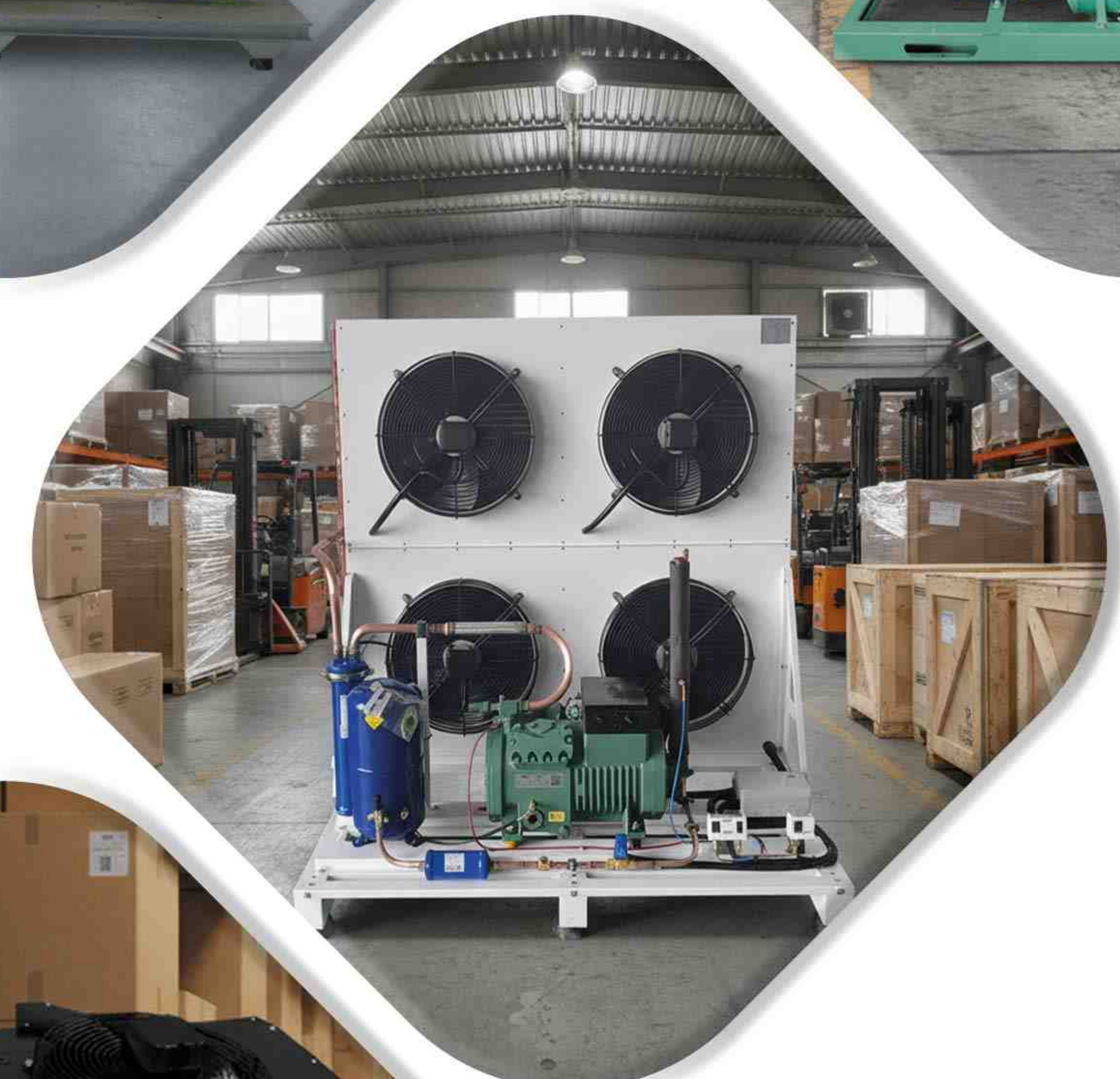
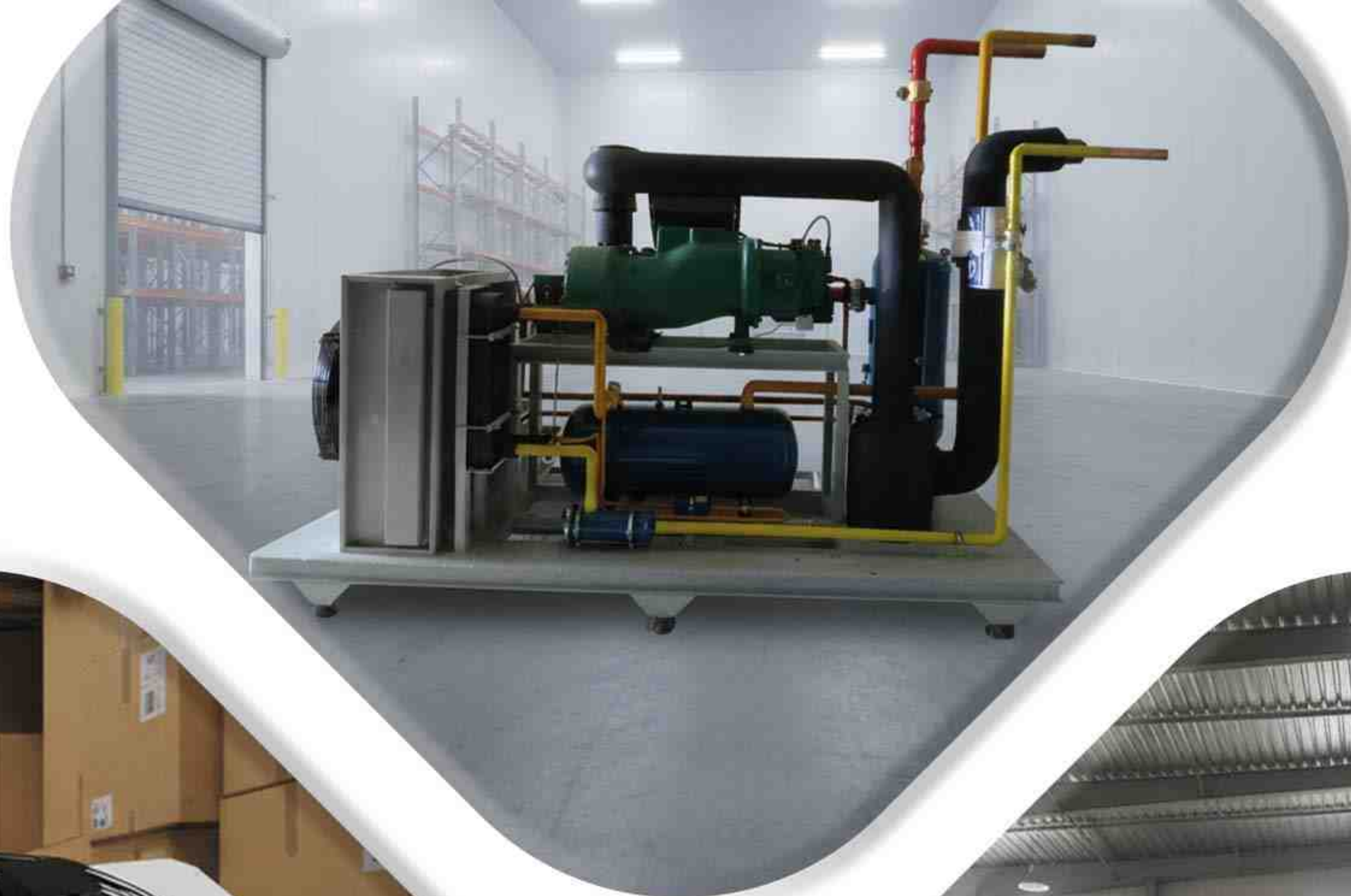
We are aware of our ecological, social, and economic responsibilities in the field of sustainability, and we shape our business activities accordingly. As **EDSO REFRIGERATION**, we aim to leave a more livable world for future generations by implementing sustainability principles in all our business processes. In this context, we aim to:

Within the framework of these policies, as **EDSO REFRIGERATION**, we minimize our environmental impact and strengthen our sustainable business practices, positioning ourselves as a leading and responsible brand in the industry.



ISO ISO ISO
9001:2015 45001:2018 14001:2015







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