

# Refrigeration Service





Serving the  
**REFRIGERATION**  
Industry **SINCE 1969**

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Only a correctly applied service programme involving advanced methods can ensure that industrial refrigeration plants work at optimum efficiency

**MOUSSA TAHA**  
Founder

# Who We Are

Since 1969 ADEAREST is the leading company in the field of industrial refrigeration and cooling systems in the region. The company specialises in the design, development, production, installation and after sales service of cooling systems.



## STRONG SERVICE

ADEAREST has developed and continues to maintain a strong service base.



## LEADER IN THE MARKET

ADEAREST Service is the leader in the market for providing comprehensive refrigeration service in a quick and efficient manner.



## TECHNICAL INNOVATION

This service is not limited to Grasso plants, but it exceeds that to cover other brands of industrial and commercial plants.



## VISIBLE BENEFITS

Cool green service. Responsible disposal of waste oil and other disposable assets.

# Our Team

A team with quality assurance



**Specialised staff operating in our service department**

## **SERVICE MANAGER:**

Heading the department and overseeing the service operations.

## **SERVICE COORDINATORS:**

Responsible for planning the programme of works with Supervisors.

They are the first point of contact, to receive client enquiries and prepare offers for service and spare parts.

## **SERVICE SUPERVISORS:**

Responsible for organising service works, daily reports, inspections, technical advice and preparing service schedules for the Service Technicians.

## **SERVICE TECHNICIANS:**

Responsible for the service and maintenance works as planned. Attend calls, inspect refrigeration systems and carry out service and repair works.

## **PLANT OPERATORS:**

Full time onsite for the 24/7 monitoring and operation of refrigeration plants. As part of their duty, the Operators perform regular maintenance and general housekeeping. Plant issues are reported to the Service Supervisors for investigation and advice on repair.



**TECHNICAL INNOVATION**  
is at the heart of everything  
we offer

# Our Service Packages

We offer a comprehensive range of service packages



## **PLATINUM PACKAGE**

Fully comprehensive maintenance package: Covers labour and materials with unlimited call-outs. Full time Operators are on site 24/7 for monitoring and system operation.



## **GOLD PACKAGE**

Comprehensive labour maintenance package with unlimited call-outs. Full time Operators are on site 24/7 for monitoring and system operation.



## **SILVER PACKAGE**

Preventive maintenance package: Condition based maintenance, with monthly visits for inspection and reporting of any issues identified. We offer consumables (Compressor oil and filter) in this package.



## **SMART SERVICE PLANS**

ADEAREST has developed a number of smart service plans. These are specific plans and tasks focused on attending to specific ailments.

# SMART SERVICE PLANS

## HIGH-END DETECTION & MONITORING TOOLS

### COMPRESSOR OVERHAUL

ADEAREST has a dedicated qualified service workshop, fully furnished with all the necessary equipment, instruments and special tools to receive different types and brands of compressors, for dismantling, full inspection and preparation of diagnosis reports. In this facility, we have the full capacity of servicing and complete overhauling of various compressors using genuine parts.



### AIR PURGING

The Purger removes non-condensable gases from the refrigeration system and as a result significantly improves the efficiency and the characteristics of any industrial refrigeration plant with Ammonia (R717) or other refrigerants. The energy savings are usually so substantial that the initial investment in the purger is recovered over a very short period. Grasso purger unit has its own refrigeration circuit, adjusted, tested and ready to use as shipped. It is easy to install, commission and is available as part of our equipment hire programme.



### LASER ALIGNMENT FOR COMPRESSORS

Motor alignment is essential and it extends the machine's operating life considerably. Our laser alignment reduces the vibration, which is the main cause of premature bearings failure and excessive wear and tear in the machine (both compressor and motor). ADEAREST offers its services for alignment using laser equipment, which provides the most accurate measurement, allowing for precision alignment. Detailed report of the alignment and its value is provided.





## AMMONIA DRYING

Ammonia contaminated with water means a waste of valuable electrical energy! In addition to raising operational costs, the water in the ammonia stimulates corrosion, leads to rapid ageing of the oil and causes of slurry formation. As a result, the water contributes to additional maintenance costs. The Grasso Ammonia Dryer eliminates water from the refrigerant circuit, even while the plant is in operation. Together with the Grasso Air Purger, the Ammonia dryer complements the comprehensive range of components within the ADEAREST equipment hire portfolio available to our customers.



## REFRIGERANT DETECTION

As the price of refrigerant is continually increasing and the regulations become more restrictive, it is highly recommended to have a refrigerant detection system to monitor the plant and give indication of any refrigerant leak, as low as 1PPM (Part Per Million). We at ADEAREST highly recommend clients to have the refrigerant leak detection system installed in their refrigeration plants. It helps protecting lives, as well as reducing refrigerant loss due to the early identification of leaks. For many years, ADEAREST has been supplying, installing and commissioning refrigerant detection systems for all refrigerants.

## SENSOR CALIBRATION

A calibration is a matter of qualifying the sensor under test. Only by knowing the limitations of the sensor is it possible to trust the measurements and optimise the process control. In other words, a temperature reading is only valid if the uncertainty value can be accounted for. The more accurate the measurements are, the closer you can go to the limit of your process in the most efficient way. If you do not determine the uncertainties, the consequences could be an expensive waste of energy and material produced. ADEAREST carries out temperature and pressure transmitter calibration on request basis. Please contact our service department for further assistance.



# SMART SERVICE PLANS

## OUR SYSTEMS ENSURE SUBSTANTIAL COST SAVINGS

### HYDRONIC BALANCING

Hydronic Balancing is the process of optimising the distribution of water or any other fluid in a building's heating or cooling system so it provides the intended result at optimum energy efficiency and minimal operating cost. Hydronic Balancing is about controlling the flow of water (or any secondary coolant). Without it, a temperature control system will never perform to its full potential. ADEAREST offers the service for flow balancing of coolants using the latest technology, provides computerised reports on the findings and offers solutions to related problems.



### VIBRATION ANALYSIS

Vibration analysis is used to detect the early precursors to machine failure, allowing machinery to be repaired or replaced before a costly failure occurs. Critical equipment (such as compressors, motors, pumps) should have an ongoing vibration check program to optimize operations. Every plant should undergo a vibration analysis check to detect abnormalities and create or compare baseline data. ADEAREST Service department is ready to assist in this regard.

### PORTABLE PU FOAM INJECTION & ALUMINIUM CLADDING SERVICES

We provide the ideal solution for cladding repair and foam injection in congested areas, where it is difficult for most injection machines to operate. Our portable PU foam injection machine is light in weight, compact and is easy to use. The small size makes it ideal for on-site portability and hard-to-reach areas. ADEAREST offers an onsite survey program with reports. In addition, our insulation and cladding staff offer onsite repairs and recladding service.



## OIL ANALYSIS

Oil can tell a great deal about the condition of the system and in particular the compressor. The acidity of the oil can show whether the oil is oxidised as a result of high temperature and whether there is a high content of moisture or oil has been in service for too long. Aluminium found in the oil for example is a proof of wear in bearing shells and compressor pistons. Oil analysis is therefore very important in identifying issues in the system. It provides savings in case the system is in good condition and will not need oil and filter change. We offer this service by taking an oil sample from the system for analysis and provide a report on the condition, along with our recommendations.



## REFRIGERATION PLANT CONDITION ASSESSMENT

A refrigeration survey is the first stage in the process of improving the efficiency of refrigeration systems. To assess and prioritise actions, an inventory status is prepared for all systems. Carrying this out annually will ensure that equipment records are kept up-to-date and installed plant and systems are running correctly and meeting their design cooling loads efficiently. ADEAREST is your best partner to carry out such site surveys, assess the plant condition and provide a survey report detailing plant condition and any recommendations for improvement.

## THERMAL IMAGING

In industrial environments thermal imaging is being used to find hot-spots that can lead to failures in electrical and mechanical installations. A thermal imaging camera is a reliable non-contact instrument which is able to scan and visualise the temperature distribution of entire surfaces of machinery and electrical equipment quickly and accurately. Breakdowns can be avoided and savings can be made. Thermography programs have contributed to substantial cost savings for end-users around the world. ADEAREST checks for insulation damage and other building defects with a thermal imaging camera. Finding insulation losses and repairing them will lead to large energy savings.



# Our Stock

## Spare Parts

We have a large and diverse stock of refrigeration and electrical spare parts to serve our customers. Parts are readily available on the shelf for immediate delivery.



## Consumables Refrigerants and Cooling

- ADEAREST holds a substantial stock of consumables.
- Ammonia refrigerant filled in 50, 60 & 400kg cylinders.
- Other refrigerants such as R404 and R407.
- ADEAREST and ENOC have developed premium quality lubrication oils for rotary screw and reciprocating refrigeration compressors. Polar N68 mineral oil and Polar P68 hydro-treated oil are available in our local stock at attractive prices! Please contact us for details and enquiries.
- Glycol: Mono-propylene glycol (food grade) and mono-ethylene glycol.



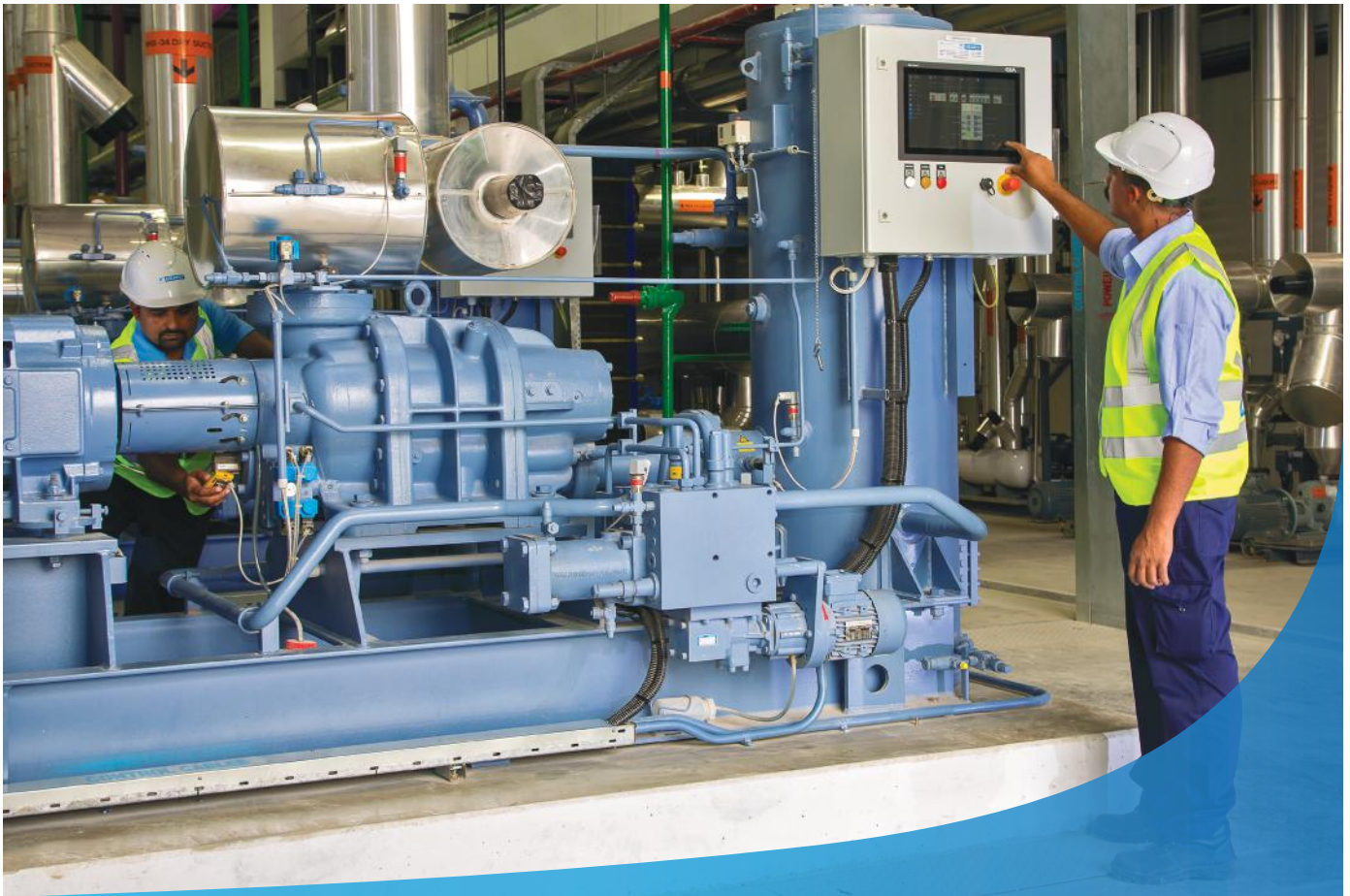
# Choose from a **WIDE RANGE** of **SPARE PARTS** and Consumables



# Emergency Services

Rapid response system for out of normal working hours demands.

ADEAREST takes pride in being the fastest refrigeration service provider in the UAE. Our service teams are on standby 24/7 ready to attend to emergency service calls. Our commitment for a response time will not exceed 2 hrs, which is the shortest period of time among all refrigeration service providers in the UAE.



# Training

We provide service training for our clients:

Refrigeration Basics

Safety Awareness

Tailored Training Programmes

We are Certified according to the following:  
ISO 9001, ISO 14001 & OHSAS 18001

ADEAREST ensures the most reliable and efficient service in the UAE.

We have developed our technical knowledge through theoretical and practical training, enabling us to create and implement the “First Time Fix” method. This involves detailed preparation prior to the site visit to ensure that all issues are solved at site in just one visit. Our attention to detail reduces your down-time. Should you require any further information, please contact us on the e-mail address below:

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ISO 9001  
ISO 14001  
OHSAS 18001

BUREAU VERITAS  
Certification



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