



THERMODYNAMICS  
TRADING & ENTERPRISE

VOL. 01 / EDITION 2026

EST. 2022

A SISTER COMPANY OF RED SEA EAGLE  
ELECTROMECHANICAL

# COMPANY PROFILE.

## HEADQUARTERS

Abu Dhabi · UAE

Salam Street · +971 2 552 5038

## PRACTICE AREAS

INSTALLATION

SOLUTIONS

TRADING

COVER

01

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01 — WHO WE ARE

# Engineering integrated solutions.

Thermodynamics is a dynamic MEP contracting and HVAC trading company delivering integrated engineering solutions for modern infrastructure. As a sister company of **Red Sea Eagle** — a well-established and experienced technical organization — we leverage a strong legacy of expertise and technical excellence.

We specialize in the design, supply, installation, and maintenance of advanced HVAC and MEP systems, with a commitment to quality, efficiency, and long-term client satisfaction. Our combined capabilities span mechanical works, pumping & infrastructure, and HVAC trading — allowing us to support projects end-to-end, from specification to commissioning.

**2022**

### Established

Founded in Abu Dhabi to serve the UAE's growing MEP and HVAC sector.

**3**

### Core Divisions

Installation Services ·  
Solution Services · Trading &  
Supply.

**93**

### Combined Workforce

8 staff · 15 direct work force ·  
20 labour supply · 50  
subcontractors.

AT A GLANCE

# Built on a foundation of engineering excellence.

Thermodynamics Trading and Enterprises is duly licensed by the Abu Dhabi Department of Economic Development and affiliated to the Abu Dhabi Chamber of Commerce and Industry. The company is registered as a Limited Liability Company — Sole Proprietorship under license **CN-4671391**, with operations based in Abu Dhabi.

Through our affiliation with Red Sea Eagle, we draw on more than seven years of demonstrated execution capability in MEP, district cooling, fit-out, and infrastructure works across the UAE — capability we extend to our own clients across HVAC trading and mechanical contracting engagements.



LIVE PROJECT  
Skid · Instrumentation & Pressure Vessels

**WHAT WE DO**

Design, supply, install, and maintain HVAC and MEP systems for commercial, residential, and industrial projects.

01

**WHY CHOOSE US**

Technical depth of an experienced MEP group + direct trading channels for fast HVAC equipment supply.

02

**HOW WE WORK**

End-to-end project ownership backed by QHSE systems, in-house engineering, and a vetted subcontractor network.

03

**WHERE WE WORK**

Headquartered in Abu Dhabi, active project execution across the Emirates — villas to district-scale infrastructure.

04



MECHANICAL PLANT ROOM



PIPEWORK & INSULATION



SERVICE LOOPS

02 — MISSION, VISION & VALUES

# What drives us forward.

OUR MISSION

Reliable solutions, delivered with discipline.

To deliver reliable, efficient, and high-quality MEP contracting and HVAC solutions by combining technical expertise, innovative practices, and a strong commitment to client satisfaction. We aim to provide end-to-end services that ensure performance, safety, and long-term value for every project.

**PERFORMANCE**

Systems sized to specification, commissioned to standards, and validated against real building demand.

**SAFETY**

Zero-harm baseline. OSHAD-aligned procedures applied across every shift, every site.

**LONG-TERM VALUE**

Maintainable installations and AMC support that extend equipment life beyond first commissioning.

*“Architectural and civil construction give shape to a building — but MEP brings it to life.”*

— OUR CORE BELIEF

MISSION IN EXECUTION



OUR VISION

# Trusted across industries.

To become a leading and trusted name in MEP contracting and HVAC trading, recognized for engineering excellence, sustainable solutions, and consistent delivery of high-performance systems across diverse industries.

OUR VALUES

## Principles we live by.

### Integrity

Honest, transparent, and accountable in every decision — on every site, with every client.

### Quality

Built right the first time. We measure success by what holds up over years, not weeks.

### Professionalism

From estimate to handover, we conduct ourselves to the standard our clients expect.

### Safety First

Zero-harm is our baseline. Our QHSE system shapes how we plan, work, and review.

### Innovation

We adopt better tools, better methods, and better materials — because clients deserve them.

### Long-Term Partnership

We build relationships, not transactions. Most of our work comes from clients we already serve.



03 — OUR BACKGROUND

# By the numbers.

A snapshot of how we're organized, where we operate, and the people and facilities behind day-to-day execution.

<p><b>2022</b> ESTABLISHED</p>	<p><b>7</b> SERVICE LINES</p>	<p><b>93</b> COMBINED WORKFORCE</p>	<p><b>UAE</b> ACTIVE ACROSS ALL EMIRATES</p>
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<p>WORKFORCE COMPOSITION</p>	<p><b>8</b> STAFF</p>	<p><b>15</b> DIRECT WORKFORCE</p>	<p><b>20</b> LABOUR SUPPLY</p>	<p><b>50</b> SUBCONTRACTORS</p>
------------------------------	---------------------------	---------------------------------------	------------------------------------	-------------------------------------

**EXPERIENCE & EXPERTISE**

**INSTALLATION** MEP & Fit-Out works / **SOLUTIONS** 7 Specialist Service Lines / **TRADING** HVAC, Plumbing & Building Materials

**HEADQUARTERS**

**Abu Dhabi, UAE**  
Salam Street · DED-licensed

*Tools & equipment inventory, central workshop & store for fabrication and material control, and dedicated labour accommodation supporting 24/7 site operations.*

04 — OUR STORY

# A route, not a moment.

Thermodynamics is the natural extension of an operational track record built over years — established in 2022 to support the existing infrastructure of Red Sea Eagle and amplify its delivery capability.

ORIGIN · PARENT  
**Red Sea Eagle**  
 Electromechanical Contracting LLC — SP

SISTER · ESTABLISHED  
**Thermodynamics**  
 Trading & Enterprise — SP



A well-established UAE engineering and construction organization — financially solid, technically experienced, with a strong delivery legacy across the Emirates.

Established to support Red Sea Eagle logistically and operationally — consolidated under one trading license to amplify supply, manpower, and procurement capacity.

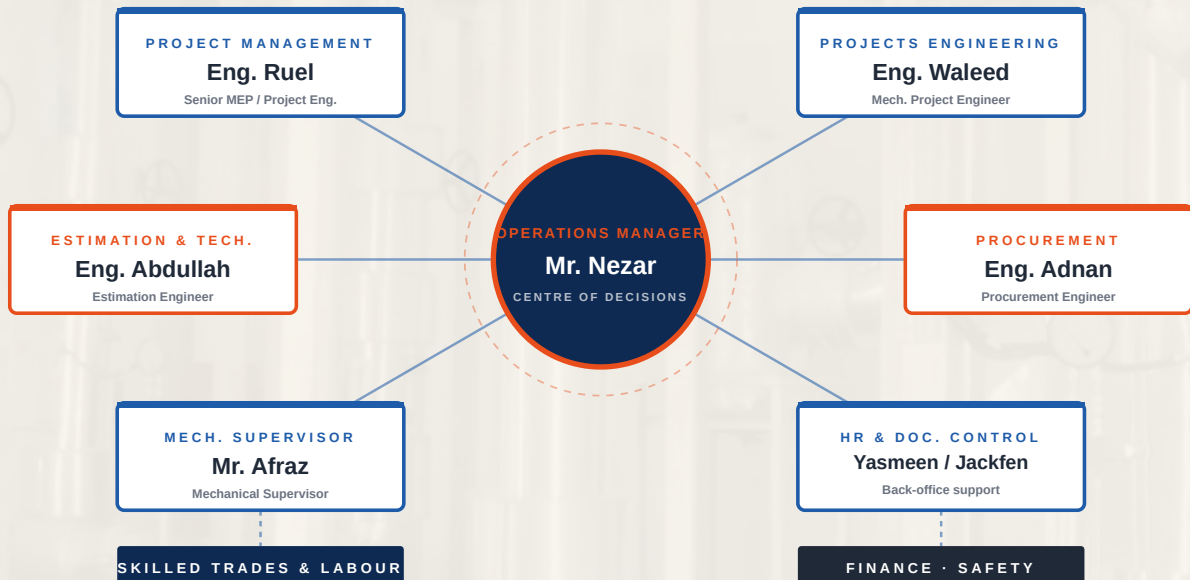
HOW THERMODYNAMICS SUPPORTS RED SEA EAGLE

- 01**  
**Materials & Equipment Supply**  
 Procurement of materials and equipment for active projects.
- 02**  
**Logistics & Supply Chain**  
 Support of supply chains and logistics services.
- 03**  
**Manpower & Technical Cadres**  
 Provision of necessary labour and technical staff.
- 04**  
**Procurement & Supply Ops**  
 Execution of procurement and supply operations linked to projects.

05 — ORGANIZATIONAL STRUCTURE

# How we are organized.

A flat, accountable structure with engineering at the centre. Each function reports to a clear owner, and ownership runs from operations leadership directly down to the supervisors on site.



**Reporting flow:** Operations Manager owns delivery; Estimation feeds tendering; Procurement runs supply chain; Project Engineering and Project Management run on-site execution alongside the Mechanical Supervisor. The wider group functional chart on the next page shows the deeper organizational backbone.

GROUP-LEVEL FUNCTIONAL CHART

# Functional reporting across the wider group.

Through our affiliation with Red Sea Eagle, we're backed by a deeper organizational backbone — with dedicated functions for Finance, HR & Administration, Estimation, Procurement, Planning & Cost Control, QHSE, and Engineering & QS.



**REPORTING CLARITY**  
 Each role has a clear owner up the chain. Decisions don't stall waiting for clarity — ownership is documented from CEO down to charge hands.



06 — OUR TEAM

# The people behind the work.

Our delivery team brings together decades of MEP, district cooling, and infrastructure experience — engineers, supervisors, and skilled trades who have shipped large projects across the UAE.



**Eng. Samer Mahmoud**  
**CHIEF EXECUTIVE OFFICER**

Samer is the CEO and board member of the group. With 17 years of experience, he brings a dynamic hands-on management style, technical know-how, and progressive approach to market expansion — driving the group’s growth into a reputed MEP and District Cooling organization across the UAE.



**Mr. Kamal Batcha**  
**ADMIN. & HR MANAGER**

20+ years of HR & administration experience across the region. Responsible for HR & admin functions and procedures for recruitment, selection, and discipline.



**Mr. Nezar Mahmoud**  
**OPERATIONS MANAGER**

Diploma in Chemical Engineering, 21+ years across Jordan and the UAE. Specialises in guiding delivery teams across all disciplines for safe project completion.

**TEAM STRENGTH**

**Engineers, supervisors, and skilled trades.**

8	15	20	50
STAFF	DIRECT	LABOUR	SUBCON.

**ENGINEERING DEPTH**

Mechanical, electrical, and HVAC engineers with cumulative experience in district cooling, MEP, and infrastructure across the UAE.

**TRADES ON STAFF**

Pipe welders & fabricators, AC ductmen, plumbers, and electricians — self-performing critical scope rather than fully outsourcing.

**GROUP SUPPORT**

Backed by Red Sea Eagle’s management bench, equipment yard, and labour accommodation — available to scale on demand.



## ENGINEERING &amp; PROJECT DELIVERY

# Project delivery leadership.

**Eng. Ruel Manaloto** SENIOR MEP / PROJECT ENGINEER

B.Sc. Mechanical Engineer (Philippines), 18+ years of MEP construction experience. Deep expertise in HVAC testing & commissioning.

**Eng. Waleed Mohammad** MECH. PROJECT ENGINEER

B.Sc. Mechanical Engineer (Jordan), 4+ years of DCP and Infrastructure experience in Jordan and the UAE.

**Eng. Adnan** PROCUREMENT ENGINEER

Leads procurement & supplier management — selects vendors and subcontractors, builds long-term partnerships, and manages procurement from acquisition through delivery.

**Eng. Abdullah** ESTIMATION & TECH. ENGINEER

Leads our estimation and technical office function, managing the tender process to ensure submissions are compiled and submitted on time.

**Mr. Afraz Haleem** MECHANICAL SUPERVISOR

Diploma in Engineering (Pakistan), 14+ years of mechanical field experience across commercial and industrial projects.



FINANCE, SAFETY & SUPPORT

# Back-office and HSE leadership.



**Mr. Harpreet Singh**

**ERP & FINANCIAL CONTROLLER**

Bachelor's in Accounting (India), 6+ years of experience across commercial and industrial projects. Manages ERP system and financial controls for Thermodynamics.



**Mr. Jasbir Singh**

**SAFETY OFFICER**

Certified Safety Officer with 20 years of experience, registered with OSHAD for IOSH Managing Safety & Fire Fighting.



**Ms. Yasmeen**

**HUMAN RESOURCES**

Leads the day-to-day HR function for Thermodynamics — supporting recruitment, employee relations, and administration.



**Mr. Jackfen**

**DOCUMENT CONTROL & RECEPTION**

Oversees document control and reception, supporting client communications and internal project documentation flow.

**BACK-OFFICE CAPABILITY**

## Built to handle complex tender, ERP & safety workflows.

From tender preparation and document control to ERP-driven financial controls and OSHAD-compliant safety oversight — our back-office function keeps projects audit-ready and clients informed throughout the engagement lifecycle.

**OSHAD**  
SAFETY

**IOSH**  
MANAGING SAFETY

**ERP**  
FINANCIAL CONTROLS

**DOC. CONTROL**  
AUDIT-READY



07 — QUALIFIED ENGINEERS

# Senior engineering & QA/QC leads.

Decades of in-region experience anchoring our technical execution — senior-level engineers seconded across the group, bringing combined HVAC, mechanical, and quality-assurance expertise to every ThermoDynamics engagement.



ENGINEER 01

## Ruel Sunga Manaloto

SENIOR MECHANICAL ENGINEER

Abu Dhabi, UAE · Mob. +971 54 561 9838 · ruel@redseaeagle.ae

24+

YEARS

### WORK EXPERIENCE

- May 2022 — Present**      **Senior Mechanical Engineer** · ThermoDynamics Trading & Enterprise
- Nov 2018 — Apr 2022**    **Senior Mechanical Engineer** · Red Sea Eagle Electromechanical LLC, Abu Dhabi — UAE
- Apr 2015 — Nov 2018**    **Mechanical Engineer** · Ecotherm Contracting L.L.C., Abu Dhabi — UAE
- Jun 2001 — Apr 2015**    **HVAC & BMS Engineer** · Al Ain General Contracting Company L.L.C. (ALGECO), Abu Dhabi — UAE

### EDUCATIONAL ATTAINMENT

- Qualification**      Bachelor of Science in Mechanical Engineering  
Training in BMS Control System
- Special Skills**      MS Office — Word, Excel & PowerPoint
- Languages**          English · Arabic · Tagalog

### PERSONAL INFORMATION

- Nationality**          Filipino
- Date of Birth**        27 March 1976
- Location**            Abu Dhabi, UAE



07 — QUALIFIED ENGINEERS / CONTINUED

# QA/QC leadership.



ENGINEER 02

## Nezar Mahmoud

QA / QC MANAGER

Abu Dhabi, UAE · Mob. +971 52 879 1533 · nezar@redseaeagle.ae

24+  
YEARS

**CAREER OBJECTIVE** — *To continue improvement in a reputed company and to provide my best of service to secure the life of personnel by following safety measures and protection.*

### WORK EXPERIENCE

- Dec 2022 — Present**      **QA/QC Manager** · Thermodynamics Trading & Enterprise
- Dec 2017 — Nov 2022**    **QA/QC Manager** · Red Sea Eagle Electromechanical LLC, Abu Dhabi — UAE
- Jun 2016 — Dec 2017**    **Safety Manager** · Al Itqan Al Memari Establishment
- Earlier**                      **Chemicals Superintendent / Safety Officer** · Central Electricity Generating Company, Zarqa — Jordan

### EDUCATIONAL ATTAINMENT

- Diploma — Chemical Industry**  
Tafila College for Applied Engineering, Jordan
- Bachelor of Law**  
Alneelain University, Sudan

### TRAINING COURSES

- 14 Jan 1995 — 14 Jan 1997 · **Mechanical Maintenance & Operation of T.P.S**, Electrical Training Center (2 years)
- 26 Jan — 29 Apr 2015 · **Fire Fighting & Prevention** (SGS)

**Nationality**  
Jordanian

**Languages**  
Arabic · English

**Special Skills**  
MS Office — Word, Excel & PowerPoint

48+  
COMBINED YEARS

UAE  
IN-REGION TENURE

**Cross-group secondment**  
Both engineers active across  
Thermodynamics & Red Sea Eagle

07 — INTEGRATED QHSE MANAGEMENT SYSTEM

# Quality. Health. Safety. Environment.

Our Integrated QHSE Management System governs how we plan, deliver, and review every project — quality, health, safety, and environment under one shared framework.

The system is built around **21 documented procedures** (the IMS Manual) and is applied consistently across operations, engineering, procurement, and HR functions.

<p><b>Q</b></p> <p>Quality assurance from estimate through handover — documented, audited, and improved.</p>	<p><b>H</b></p> <p>Occupational health protection for every worker on every shift across every site.</p>	<p><b>S</b></p> <p>Site safety procedures aligned with OSHAD standards and continuously enforced.</p>	<p><b>E</b></p> <p>Environmental controls covering waste, emissions, and resource consumption.</p>
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*“Safety isn’t a cost line in our project plan — it’s the baseline from which every plan begins.”*

— OUR QHSE PRINCIPLE



IMS MANUAL — 21 PROCEDURES

# How quality, safety, and environment are governed.

<b>PR 01</b> Control of Documentation	<b>PR 02</b> Context of the Organization	<b>PR 03</b> Purchase Procedure
<b>PR 04</b> First Aid Procedure	<b>PR 05</b> Objectives, Targets & KPIs	<b>PR 06</b> Internal Audit
<b>PR 07</b> Corrective Action	<b>PR 08</b> Management Review	<b>PR 09</b> Environmental Review
<b>PR 10</b> Hazard Identification & Risk Assessment	<b>PR 11</b> Legal Compliance	<b>PR 12</b> Training & Competency
<b>PR 13</b> Consultation, Communication & Participation	<b>PR 14</b> Operational Control	<b>PR 15</b> Emergency Preparedness & Response
<b>PR 16</b> Monitoring & Reporting	<b>PR 17</b> Incident Investigation	<b>PR 18</b> Control of Non-Conformance
<b>PR 19</b> Resource Management	<b>PR 20</b> Waste Management	<b>PR 21</b> Customer Feedback, Complaint & Satisfaction

FROM PROCEDURE TO SITE



08 — OUR LICENSES

# Licensed, registered, audited.

Thermodynamics Trading and Enterprises is duly licensed and registered with the relevant UAE authorities. The summary below confirms our legal status; subsequent pages reproduce the official certificates.

### Trade License

**License No:** CN-4671391  
**Legal Form:** LLC — Sole Proprietorship  
**Authority:** Abu Dhabi DED (ADRA)  
**Establishment:** 29/12/2022

### Chamber of Commerce

**ADCCI No:** 8800038994  
**Authority:** Abu Dhabi Chamber of Commerce & Industry  
**Status:** Active member

### Establishment Card

**MOHRE Card:** 1561502  
**ICA Card:** 818838  
**Authority:** Ministry of Human Resources & Emiratization / ICA

### VAT Registration

**TRN:** 104028378800003  
**Authority:** Federal Tax Authority  
**Status:** Registered VAT entity

**Licensed Activities** include Electromechanical Equipment Installation and Maintenance; wholesale trading of Air-Conditioner & Coolant Spare Parts, Pumps & Motors, Water Treatment & Purification Equipment, and Workshop Equipment; Installation of Electrical Wiring & Fixtures; and services to Onshore & Offshore Oil and Gas Fields and Facilities.

CERTIFICATES — 1 OF 3

# Trade License & Commercial Registration.

### ABU DHABI ECONOMIC LICENSE




**رخصة أبوظبي الاقتصادية**  
Abu Dhabi Economic Licence

Licence Details		تفاصيل الرخصة	
Licence Type	Business	نوع الرخصة	التجارية
Licence Category	Normal	فئة الرخصة	عادية
Licence No.	CU44671391	رقم الرخصة	
Under Registration No.	101-2023-10013701	رقم التسجيل المؤقت	
Under Licence No.	501-2023-100219103	رقم الرخصة المؤقت	
Establishment Date	26/12/2022	تاريخ التأسيس	
Issuance Date	11/01/2024	تاريخ الإصدار	
Expiry Date	19/01/2027	تاريخ الانتهاء	
Legal Form	Limited Liability Company - Sole Proprietorship Company	نظام الشركة	شركة ذات مسؤولية محدودة - شركة شخص واحد
Trade Name	THERMODYNAMICS TRADING AND ENTERPRISES - SOLE PROPRIETORSHIP L.L.C.	الاسم التجاري	تيرمو ديناميكس للتجارة والعمليات - شركة شخص واحد

Ownership and Representatives				الملاك والممثلين	
Representative of	Role/Position	Nationality	Name	الاسم	الجنسية
مالك	Owner	الأردن	SAMER MAHMOUD SHEHADAH MAHMOUD	سامر محمود شهاده محمود	
مدير	Manager	الأردن	SAMER MAHMOUD SHEHADAH MAHMOUD	سامر محمود شهاده محمود	

Licence Activities			النشاط المرخصة	
Onshore And Offshore Oil And Gas Fields And Facilities Services	0910018	خدمات حقول ومناطق الإنتاج النفطية والغازية		
Wholesale of Pumps, Motors and Valves and Outfit Trading	4099103	تجزئة المضخات والمحركات والصمامات والمعدات والملابس		
Wholesale of Air-Conditioner and Coolant Spare Parts Trading	4099934	تجزئة قطع غيار أجهزة التكييف والتبريد - بالجملة		
Electromechanical Equipment Installation and Maintenance	4320206	أعمال تركيب المعدات الكهربائية والميكانيكية - بالجملة		
Wholesale of Water Treatment Equipment and Purification Trading	4099111	تجزئة معدات معالجة المياه وتنقيتها - بالجملة		
Wholesale of Electrical Equipment Trading	4099102	تجزئة المعدات الكهربائية - بالجملة		
Installation of electrical wiring and fixtures	4321001	تركيب المعدات والتركيبات الكهربائية		
Wholesale of Workshop Equipment and Machines and Spare Parts Trading	4099201	تجزئة معدات ورش العمل وأدواتها وقطع غيارها - بالجملة		

**العنوان**  
Office Email: ssamer2003@yahoo.com  
Office Mobile: +971500300075  
Address: جزيرة أبوظبي شرق 18\_0\_3 - مبنى محمد بن راشد

**العنوان الإلكتروني الرسمي**  
رقم التواصل الرسمي: +971500300075  
العنوان: جزيرة أبوظبي شرق 18\_0\_3 - مبنى محمد بن راشد

www.adra.gov.ae  
1 of 2 Print Date: 11/01/2024 Print Time: 14:10:53 To verify the economic licence kindly visit the TARFAHAD service on www.aed.gov.ae

### COMMERCIAL REGISTRATION




**شهادة السجل التجاري**  
Commercial Registration Certificate

Certificate No	5187978	رقم الشهادة	
Issue Date	11/01/2024	تاريخ الإصدار	
License No	CN-4671391	رقم الرخصة	
ADCCI No	8600038994	رقم هوية الشركة	
Licence Type	Commercial License	نوع الرخصة	الرخصة التجارية
Legal Form	Sole Proprietorship L.L.C.	نظام الشركة	شركة الشخص الواحد
Trade Name	THERMODYNAMICS TRADING AND ENTERPRISES - SOLE PROPRIETORSHIP L.L.C.	الاسم التجاري	تيرمو ديناميكس للتجارة والعمليات - شركة الشخص الواحد
Establishment Date	26/12/2022	تاريخ التأسيس	
Expiry Date	19/01/2027	تاريخ الانتهاء	
MHRE	1361502	وزارة التجارة والصناعة	
ICA	818838	الهيئة العامة للغرفة التجارية والصناعية	

Members						الأفراد	
Phone	الرقم الهاتفي	البريد الإلكتروني	الحصة	الصفة	الجنسية	المالك / الشريك	المالك / الشريك
+971	ANJUMZAFAR 173@YAHOO.COM	100	ملاك	الأردن	SAMER MAHMOUD SHEHADAH MAHMOUD	سامر محمود شهاده محمود	
+971	ANJUMZAFAR 173@YAHOO.COM	0	مدير	الأردن	SAMER MAHMOUD SHEHADAH MAHMOUD	سامر محمود شهاده محمود	

**تفاصيل رأس المال**  
Currency: AED  
Paid: AED

**العنوان**  
جزيرة أبوظبي شرق 18\_0\_3 - مبنى محمد بن راشد

**النشاط**  
Onshore And Offshore Oil And Gas Fields And Facilities Services  
Wholesale of Pumps, Motors and Valves and Outfit Trading  
Wholesale of Water Treatment Equipment and Purification Trading  
Wholesale of Air-Conditioner and Coolant Spare Parts Trading  
Electromechanical Equipment Installation and Maintenance  
Wholesale of Workshop Equipment and Machines and Spare Parts Trading  
Installation of electrical wiring and fixtures

**العنوان الإلكتروني الرسمي**  
رقم التواصل الرسمي: +971500300075  
Office Email: ssamer2003@yahoo.com

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11/01/2024  
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# CERTIFICATES — 3 OF 3

## VAT Registration & ADCCI.

### VAT REGISTRATION CERTIFICATE



الهيئة الاتحادية للضرائب  
FEDERAL TAX AUTHORITY

شهادة التسجيل في العتبة الضريبة للضريبة  
أصدرت بموجب الصلاحيات المخولة بموجب المادة (4) من المرسوم بقانون رقم (13) لسنة 2016 بشأن إنشاء الهيئة الاتحادية للضرائب.

**Certificate of Registration for Value Added Tax in the United Arab Emirates**  
Issued under the authority allocated by Art. 4 of the Federal Decree Law No. 13 of 2016

The Federal Tax Authority certifies that the entity below is a registered person for Value Added Tax in the UAE

رقم التسجيل الضريبي	10402837800003
الاسم القانوني للشخص الاعتباري	تيرمو ديناميكس للتجارة والتوزيع - شركة التضامن ذات مسؤولية محدودة
الاسم القانوني للشخص الاعتباري (الإنجليزية)	THERMODYNAMICS TRADING AND ENTERPRISES - SOLE PROPRIETORSHIP LLC
العنوان المسجل ورقم الهاتف	BUILDING 25, SALAM STREET, SALAM STREET, ABU DHABI, 5, Abu Dhabi +971509300936
التاريخ الفعلي للتسجيل الضريبي	01/03/2023
فترة أول إقرار ضريبة القيمة المضافة	01/03/2023 - 31/05/2023
التاريخ المستحق للإقرار الضريبي للفترة الضريبة للفترة الضريبة	28/06/2023
تاريخ بدء وانتهاء الفترات الضريبية	1st Mar to 31st May, 1st June to 31st Aug, 1st Sep to 30th Nov, 1st Dec to 31st Feb

List of sole establishments and branches under the registered taxable person:

Legal Name	Licensing Authority	License Number/رقم ترخيص	صحة الترخيص	الاسم القانوني
يرجى التأكد من صحة تفاصيل الشهادة. يجب إبلاغ الهيئة الاتحادية للضرائب في حال تغيير الأساس التي حصلت فيها على رقم تسجيل ضريبي الخاص بك.				

\*Please check that the details on this certificate are correct. You must inform the Federal Tax Authority of any change on the basis of which you obtained your Tax Registration Number.

التاريخ الإصدار: 16/02/2023



رقم الإصدار: 2023/VAT/0003122609/003

### ADCCI CERTIFICATE



غرفة أبوظبي  
ABU DHABI CHAMBER  
إلى من يهمة الأمر

رقم الشهادة: DC-000047505 / تاريخ الإصدار: 9/4/2025

شهادة غرفة تجارة وصناعة أبوظبي وتحتسب سجلاتها باب المصنوع إيداع مسجلة تحت المانات التالية:

اسم: تيرمو ديناميكس للتجارة والتوزيع - شركة التضامن ذات مسؤولية محدودة

حالة المصنوع: Active

رقم الرخصة: CN-4671391

رقم التأسيس: 2022-12-28

التاريخ التأسيس: 2022-12-28

رقم التوحيد: 8800038994

رقم التأسيس: 2027-01-09

الشكل القانوني: شركة التضامن - 1 شخص

صحة: صالحة

الاسم: 0.00

المدنية: أبوظبي

بريد الإلكتروني: suamer2003@yahoo.com

رقم الهاتف المحمول: 971509300975+

رقم الهاتف المنزلي: 971509300975+

الجنسية: الأجنبي

العائلي / الشركاء / وكيل الخدمات

الاسم	رقم الهوية	الجنسية	الصفة	نسبة المشاركة
سماير محمد رشيد بن مسعود	50213332	الأجنبي	Manager	0.0000
سماير محمد رشيد بن مسعود	50213332	الأجنبي	Owner / مالك	100.0000

النشاط التجاري:

يتم إصدار هذه الشهادة بناءً على طلبهم دون أي مسؤولية من جانب غرفة تجارة وصناعة أبوظبي.

09 — TRACK RECORD & APPROVALS

# Records of execution and client trust.

As an emerging operating company, our track record is being formally documented through completion certificates and client/consultant approvals. This section will house each record as projects close and registrations are issued.

VERIFIED COMPLETION CERTIFICATE

## Al Saadiyat Villa — Full MEP Handover

● VERIFIED

**PROJECT DETAILS**

VIP Saadiyat Villa — full HVAC, plumbing & drainage, testing & commissioning. Delivered in compliance with Abu Dhabi Municipality standards.

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<b>ISSUED BY</b>	<b>REFERENCE</b>
<b>Lines Definition</b>	<b>LD-EQ-006-2026</b>
<b>START DATE</b>	<b>COMPLETION</b>
<b>10 October 2023</b>	<b>8 August 2025</b>

---

**SCOPE DELIVERED**

- HVAC systems
- Plumbing & drainage
- Testing & commissioning
- Inspection & handover

**Status:** All works inspected, tested, and certified compliant with Abu Dhabi Municipality and relevant authority regulations.

**Note:** As a sister entity to **Red Sea Eagle Electromechanical Contracting LLC** (established 2017), Thermodynamics also draws on its parent’s extensive completion record and approved-vendor history when participating in tenders — affirmed in the Sister Company Affiliation letter on the final page of this document.

11 — WHAT WE DELIVER

# Three chapters, one accountable team.

Our work is organized into three integrated chapters — from on-site execution and specialist HVAC engineering through to direct equipment supply. Each chapter can stand alone or combine into a single-contract package.

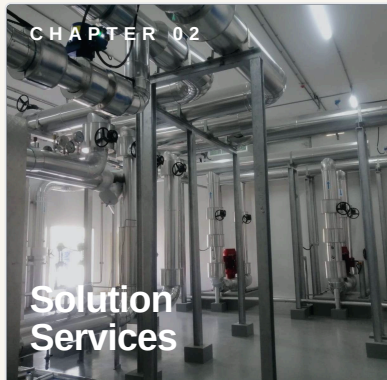
**CHAPTER 01**



**Installation Services**

MEP works and Fit-out projects — HVAC, electrical, plumbing, fire-fighting, ELV, and commercial fit-out delivery.


**CHAPTER 02**



**Solution Services**

Seven specialist HVAC service lines — retrofit, retro-commissioning, water balancing, AMC, hot-tapping & more.

**CHAPTER 03**



**HVAC Trading & Supply**

Wholesale supply of mechanical, plumbing, and building-material products from leading international brands.

**HOW WE ENGAGE**

Our scope can be tailored from supply-only equipment delivery, through full design-and-install packages, to long-term operations and maintenance contracts.

## CHAPTER 01

# Installation Services.

End-to-end on-site delivery — from MEP construction works on new builds and major projects, through commercial and residential fit-out.

**01.A****MEP Projects**

Mechanical, electrical, plumbing, ELV and fire-fighting works on new builds and major infrastructure.

**01.B****Fit-Out Projects**

Commercial fit-out for offices, residential units, and renovations — integrating MEP with finishes.



01.A — INSTALLATION

# MEP Projects.

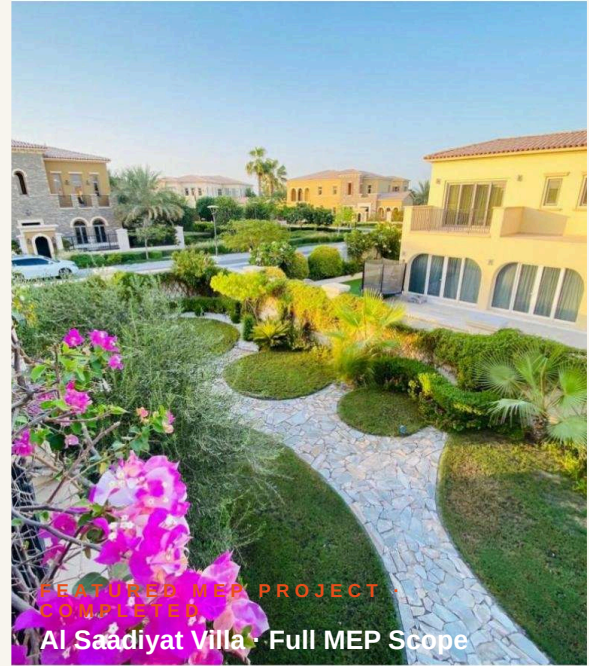
We design, install, test and commission complete mechanical, electrical, plumbing, and fire-fighting systems for commercial buildings, hospitality, healthcare, and industrial facilities — with end-to-end accountability from shop drawings through handover.

FEATURED PROJECT · COMPLETED

## Al Saadiyat Villa

Saadiyat Island, Abu Dhabi

Full MEP scope on a 9,800 sq.ft luxury residence — VRF system, integrated mechanical works, plumbing, fire-fighting, and ELV. Delivered to luxury residential standards with precision climate control.



FEATURED MEP PROJECT · COMPLETED  
Al Saadiyat Villa · Full MEP Scope

SCOPE COVERAGE

- HVAC piping & ductwork
- Plumbing & drainage
- Electrical & ELV
- Pumping stations
- Chilled / hot water systems
- Fire-fighting
- BMS integration
- Testing & commissioning



AHU



CONTROL PANELS



EXPANSION TANK



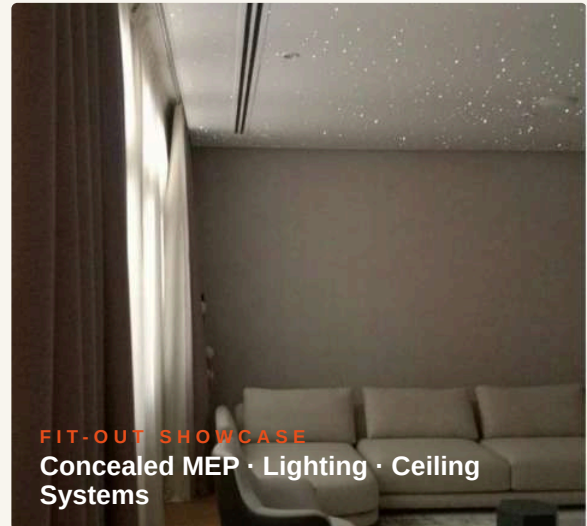
PUMP HEADER



01.B — INSTALLATION

# Fit-Out Projects.

Commercial and residential fit-out delivery — offices, retail, hospitality, and high-end villas. We integrate concealed MEP works with finishes, lighting, and architectural detailing to deliver turnkey-ready spaces.



**CURRENTLY UNDERWAY**  
**Paragon Bay Mall**  
Commercial retail mall fit-out

**CURRENTLY UNDERWAY**  
**Al Najda Building**  
Commercial building fit-out, Abu Dhabi



**FIT-OUT SCOPE COVERAGE**

- Concealed MEP works
- VRF / split AC systems
- Lighting & ceiling systems
- Plumbing fit-out
- Office & retail fit-out
- Residential fit-out
- Renovations
- Handover & close-out

**ACTIVE**  
**2** projects

**SECTORS**  
**Retail +**  
Comm.

**DETAIL**  
**See p.34**

## CHAPTER 02

# Solution Services.

---

Seven specialist HVAC service lines — engineered to modernize, optimize, and maintain critical cooling and water systems with measurable energy and reliability gains.

## THE 7 SERVICE LINES

- 01 Cooling Plant Retrofit & HVAC Refurbishment
- 02 Low Delta T Syndrome & Retro-Commissioning
- 03 HVAC Fit-Out for New Builds & Renovations
- 04 Equipment Commissioning & Water Balancing
- 05 Hydronic Systems Fit-Out
- 06 HVAC Annual Maintenance & Emergency Support
- 07 Hot Tapping & Pipe Freezing



## CHAPTER 02 — SOLUTION SERVICES

# Specialist HVAC services — in detail.

## 01

RETROFIT

### Cooling Plant Retrofit & HVAC Refurbishment

Boost efficiency, reliability, and reduce operating costs through targeted system upgrades, equipment refurbishment, and condenser water network protection.

- Air-to-water-cooled conversion
- Cooling tower refurbishment
- Heat exchanger refurbishment
- Constant-to-variable flow
- Advanced filtration systems
- Infrastructure protection

## 02

 $\Delta T$ 

### Low Delta T Syndrome & HVAC Retro-Commissioning

Solve Low  $\Delta T$  Syndrome through system audits, real-time performance tuning, and integration with SCADA / PLC / BMS platforms — cutting energy costs and extending equipment life.

- In-depth system audits
- Pump & HX optimization
- SCADA / PLC / BMS integration
- Retro-commissioning
- Real-time performance tuning
- Predictive control

## 03

FIT-OUT

### HVAC Fit-Out for New Builds & Renovations

Complete HVAC fit-out from heat-load calculation to installation, upgrades, and energy-efficient system replacement.

- Heat-load calculation
- Equipment selection & install
- Ductwork design & install
- System upgrades
- Energy-efficient replacement
- Concept-to-commissioning

## 04

T &amp; C

### Equipment Commissioning & Water Balancing

Detailed equipment checks, hydronic calculations, and advanced water-flow balancing — ensuring systems perform at peak efficiency from day one.

- Functional commissioning
- Hydronic calculations
- Advanced water-flow balancing
- Performance validation
- Compliance documentation
- Energy-loss minimization



## CHAPTER 02 — SOLUTION SERVICES (CONT.)

# Hydronic, AMC & live-system services.

## 05

HYDRONIC

### Hydronic Systems Fit-Out

Comprehensive retrofit solutions to modernize aging hydronic systems — replacing outdated components with advanced, reliable technologies.

- Multilayer piping for domestic water
- PPR / copper retrofit
- Pressure Independent Control Valves (PICV)
- Optimal flow balancing
- ETS room controls (integrated)
- Heat exchange & monitoring

## 06

AMC

### HVAC Annual Maintenance Contracts & Emergency Support

Comprehensive AMC, breakdown response, and genuine spare parts for HVAC and water systems — engineered to ensure uninterrupted operation and lifecycle extension.

- Cooling tower maintenance
- Filtration system upkeep
- Plate heat exchanger service
- Rapid breakdown response
- Pressurization & degassers
- Genuine spare parts supply

## 07

LIVE-PIPE

### Hot Tapping & Pipe Freezing Services

Enable live pipeline maintenance without costly system shutdowns — branch connections on pressurized pipes, and temporary isolation via controlled ice plugs.

- Hot tapping — live tie-ins
- ASME-compliant cutting
- Pipe freezing — LN<sub>2</sub> / CO<sub>2</sub>
- Emergency valve replacement
- Steel / copper / plastic
- Zero water-loss isolation





CHAPTER 03

# HVAC Trading & Supply.

Direct wholesale supply of mechanical, plumbing, and building-material products from leading international brands — consolidated under one trading license.

03.A

## Mechanical

HVAC pumps, valves, AC units, pipe insulation, pressure gauges, ecology units, FOCS instrumentation.

03.B

## Plumbing

PPR, PEX, copper pipes & fittings, plumbing valves, booster & sump pumps, HDPE plumbing systems.

03.C

## Building Materials

Galvanized iron channels & supports for MEP and construction projects — engineered for stability.



03.A — TRADING & SUPPLY

# Mechanical Products.

High-efficiency mechanical product range from leading international manufacturers — specified, sourced, and delivered through a single trading channel.

### HVAC Pumps

High-efficiency circulation pumps for chilled and hot water systems. Built for energy savings and long service life.

### HVAC Valves

Flow control, balancing, and safety valves for cooling and heating systems.

**FLOWCON** **OVENTROP**

### AC Units

Premium air conditioning units for residential, commercial, and industrial applications.

**HISENSE** **SUPER GENERAL**  
**AUX**

### Pipe Insulation

High-performance insulation to minimize energy loss and condensation.

**K-FLEX** **AEROFOAM**

### Pressure Gauges

Accurate pressure gauges for HVAC, plumbing, and industrial systems.

**ASHCROFT** **WIKA**

### C.S. Pipes & Fittings

Carbon steel pipes for robust mechanical and structural applications.

**RHINOFIT**

### HDPE Pipes & Fittings

Durable, corrosion-resistant pipes for high-pressure water and gas distribution.

### Ecology Units

Kitchen exhaust and air purification with high-grade filters for grease, smoke, and odor removal.

### FOCS Instrumentation

Fire, Oil, Chilled-water and Sanitary system instrumentation — precision monitoring and control.



03.B — TRADING & SUPPLY

# Plumbing & Building Materials.

Plumbing systems and structural building materials for MEP and construction — from potable water supply to MEP support frames.

PLUMBING PRODUCTS

**PPR Pipes**  
 High heat & pressure resistance for potable water and HVAC applications.  
**VIALLI** **COSMOPLAST**

**PEX Pipes**  
 Flexible, scale-resistant pipes for hot and cold water distribution.  
**VIALLI** **COSMOPLAST**

**Copper Pipes & Fittings**  
 Excellent thermal conductivity, ideal for HVAC, gas, and water supply.  
**MUELLER**

**Plumbing Valves**  
 Effective water control for residential, commercial, and industrial networks.  
**PEGLER** **CRANE**

**Plumbing Pumps**  
 Booster pumps for water pressure; sump pumps for drainage. Built for low-maintenance reliability.  
**SPP** **GRUNDFOS**

**HDPE Plumbing**  
 Leak-proof HDPE pipes & fittings for water supply and drainage.  
**MARLEY** **COSMOPLAST**

BUILDING MATERIALS

**G.I. Channels & Supports**  
 Galvanized iron channels and supports for structural stability in MEP and construction projects — corrosion-resistant and precision-manufactured.

*Additional building material lines available on request — contact our trading team for product specifications and lead times.*

TRADING ENQUIRIES  
**+971 2 552 5038**  
 trading@thermodynamics.ae



03 — TRUSTED BRAND PARTNERS

# Brands we trade and supply.

A curated portfolio of leading international manufacturers across HVAC, plumbing, and building materials — consolidated under a single trading channel for streamlined procurement and delivery across the UAE.

— HVAC & MECHANICAL · 10 BRANDS

<b>FlowCon</b>	<b>Oventrop</b> ●	<b>Hisense</b>	<b>SUPER GENERAL</b>	<b>AUX</b>
HVAC VALVES	HVAC VALVES	AC UNITS	AC UNITS	AC UNITS
DENMARK	GERMANY	CHINA	U.A.E.	CHINA
<b>K-FLEX</b>	<b>AEROFOAM</b>	<b>Ashcroft</b>	<b>WIKA</b>	<b>RHINOFIT</b>
PIPE INSULATION	PIPE INSULATION	PRESSURE GAUGES	PRESSURE GAUGES	CARBON STEEL PIPES
ITALY	INDIA	U.S.A.	GERMANY	U.A.E.

— PLUMBING & BUILDING MATERIALS · 8 BRANDS

<b>Vialli</b>	<b>COSMOPLAST</b>	<b>Mueller</b>	<b>Pegler</b>
PPR / PEX PIPES	PPR / PEX / HDPE	COPPER PIPES	PLUMBING VALVES
TURKEY	U.A.E.	U.S.A.	U.K.
<b>CRANE</b>	<b>SPP</b>	<b>GRUNDFOS</b> ⌘	<b>Marley</b>
PLUMBING VALVES	PLUMBING PUMPS	PLUMBING PUMPS	HDPE PLUMBING
U.S.A.	U.K.	DENMARK	U.K.

**SINGLE TRADING CHANNEL**

From specification through to delivery — consolidated procurement across all 18 brands. Additional product lines available on request.

**TRADING ENQUIRIES**

**+971 2 552 5038**

trading@thermodynamics.ae

12 — ENGINEERING CAPABILITIES

# Mechanical capability, in detail.

We deliver innovative engineering solutions to international standards — complete HVAC, plumbing, and fire protection system design, including hydraulic calculations and shop drawings using AutoCAD MEP, Revit MEP, and Carrier HAP.

**CAPABILITY 01**  
**Heat-Load Calculation**  
 Carrier HAP · ASHRAE 62.1

Hourly cooling-load profile from Carrier HAP — sizing chillers and air-handling capacity to peak demand with ASHRAE-compliant ventilation.

**CAPABILITY 02**  
**Smoke Control Design**  
 NFPA 92 · UAE Civil Defence

Stairwell pressurization combined with zoned smoke extract — protecting evacuation routes and limiting smoke spread per NFPA 92.

**CAPABILITY 03**  
**Hydraulic Calculation**  
 CHW Network · Pipe Stress

Network analysis with pressure drop, flow distribution, and balancing — sized using LMTD, friction factors, and equipment selection per ASHRAE.

**Carrier HAP**  
 LOAD & ENERGY

**AutoCAD MEP**  
 DRAWINGS

**Revit MEP**  
 BIM & COORDINATION

**ASHRAE / NFPA**  
 STANDARDS

14 — OUR COMPLETED PROJECTS

# Al Saadiyat Villa.

An exclusive private villa on Saadiyat Island, Abu Dhabi — a full HVAC scope delivered to luxury residential standards. The project showcases our capability across precision climate control, energy efficiency, and integrated mechanical works.



PROJECT SHOWCASE — COMPLETED

## Private Villa — Saadiyat Island.

Abu Dhabi, UAE · Full HVAC works · 9,800 sq.ft luxury residence with VRF system, precision climate control, and integrated mechanical works.

BUILD-UP AREA

**9,800** sq.ft

HVAC SYSTEM

**VRF**

INDOOR TEMP

**16** °C

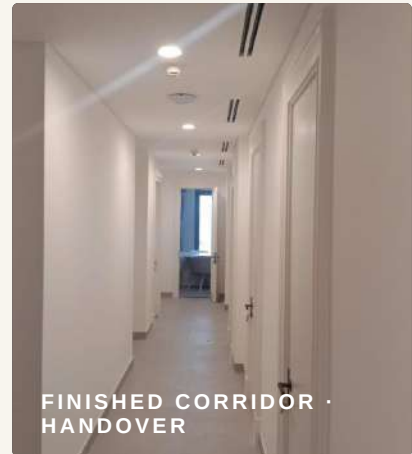
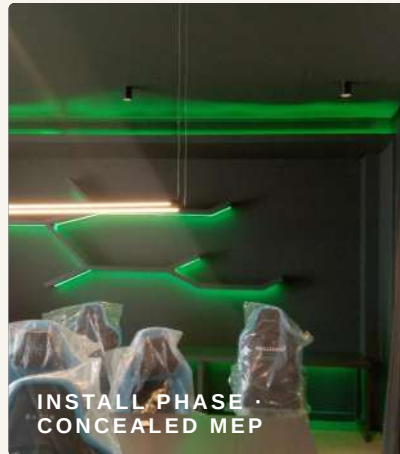
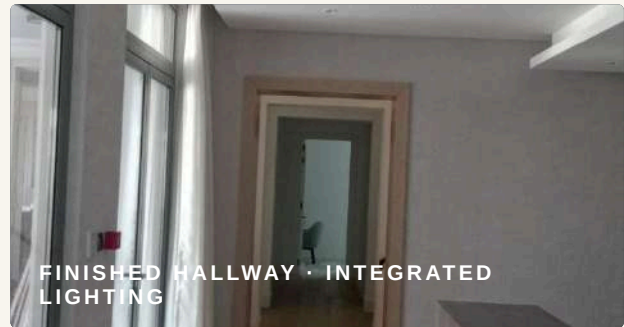
*“Successfully implemented an energy-efficient HVAC solution for a private villa, maintaining a consistent 16°C indoor temperature with precise humidity control while optimizing system performance and minimizing energy consumption.”*

— KEY PROJECT CHALLENGE

## AL SAADIYAT VILLA — IN DETAIL

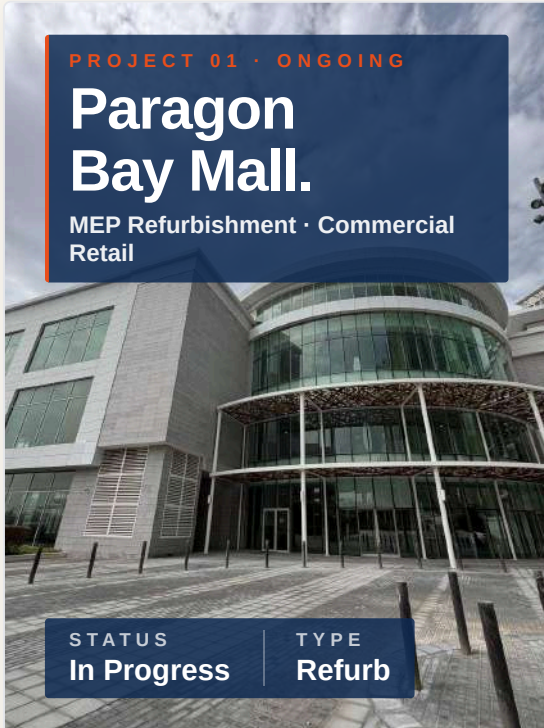
# Project showcase.

Selected photography from the completed villa: integrated MEP works delivering luxury-grade aesthetics and consistent indoor climate performance.



14 — OUR ONGOING PROJECTS

# Paragon Bay Mall.



PROJECT 01 · ONGOING

## Paragon Bay Mall.

MEP Refurbishment · Commercial Retail

STATUS **In Progress** | TYPE **Refurb**

**PROJECT BRIEF**

Comprehensive revamping, refurbishment, and rectification of the mall's full MEP and life-safety systems — covering air-side, water-side, vertical-transport, automated-access, and standby-power infrastructure.

**SCOPE OF WORK**

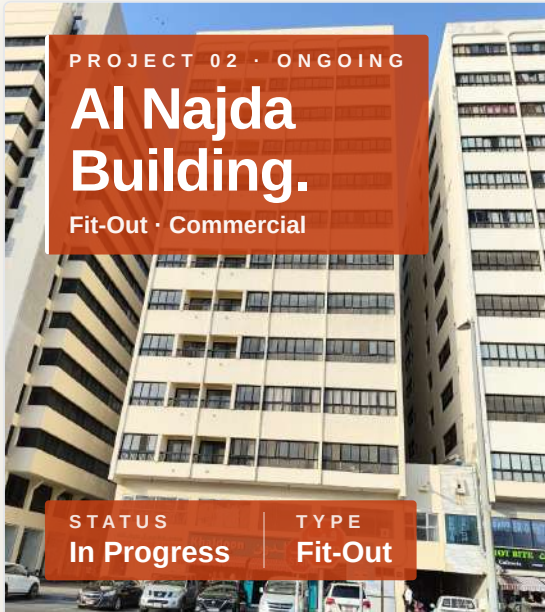
- 01** Revamp of **87 AHUs & 683 FCUs**
- 02** Rectification of **40** booster, transfer, lifting & sump pumps
- 03** Automatic sliding doors — **14 units**
- 04** Diesel gens **1050 & 1600 kVA** service
- 05** Areva HV system — DC & battery rectification
- 06** Refurb of **12** elevators & **16** escalators
- 07** BMS system rectification & service
- 08** Parking guidance & management system

<p><b>MEP CONTRACTOR</b> Thermodynamics Trading &amp; Enterprise — SP</p>	<p><b>MAIN CONTRACTOR</b> To be confirmed</p>	<p><b>WORK DURATION</b> To be confirmed</p>	<p><b>BUILD-UP AREA</b> To be confirmed</p>
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14 — OUR ONGOING PROJECTS

# Al Najda Building.



PROJECT 02 · ONGOING  
**Al Najda Building.**  
 Fit-Out · Commercial

STATUS: **In Progress** | TYPE: **Fit-Out**

**PROJECT BRIEF**

Commercial building fit-out engagement on Al Najda Street — integrated electrical, life-safety, and mechanical scope across the full building stack.

**ELECTRICAL & LIFE-SAFETY**

- Replacement of all light fixtures & fittings
- Replacement of main DP
- Testing & commissioning of CCTV cameras
- Servicing & commissioning of elevator
- Replacement of generator (88 kVA)
- Replacement of smoke detector & fire alarm cables

**MECHANICAL**

- Testing & commissioning of chiller
- Rectification of valve packages & commissioning of FCUs (132 nos.)
- Replacement of lifting & booster pumps
- Replacement of all water supply pipes

<p><b>MEP CONTRACTOR</b>                  Thermodynamics Trading &amp; Enterprise — SP</p>	<p><b>MAIN CONTRACTOR</b>                  To be confirmed</p>	<p><b>WORK DURATION</b>                  To be confirmed</p>	<p><b>BUILD-UP AREA</b>                  To be confirmed</p>
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## 16 — MANAGEMENT STAFF

# Our strength in numbers.

Combined management strength across the group — engineering, operations, accounts, HR, and QA/QC functions supporting Thermodynamics project execution.

DEPARTMENT	DESIGNATION	NUMBER
EXEC	Senior Management	02
OPERATIONS	Project Management / Site Management	01
PLANNING	Cost Control / Planning Management	01
ESTIMATION	Estimation Engineer	01
PROCUREMENT	Procurement Engineer	01
OPERATIONS	Site Coordinator	01
ENGINEERING	Draftsman	02
ENGINEERING	Quantity Surveyor	01
OPERATIONS	Supervisors	05
ACCOUNTS	Chief Finance Officer	01
ACCOUNTS	Senior Accountant	02
ACCOUNTS	ERP & Finance	01

MANAGEMENT STAFF — CONTINUED

## Group management headcount.

DEPARTMENT	DESIGNATION	NUMBER
HR	HR & Administration Manager	01
HR	Public Relations Officer	01
OPERATIONS	QA / QC Inspector	02
OPERATIONS	MEP Engineers	08
OPERATIONS	Logistics Manager	01
OPERATIONS	Store Keeper	01
<b>TOTAL MANAGEMENT STAFF</b>		<b>41</b>

**Group-wide capability.** The figures above represent combined management strength across our group — available to support ThermoDynamics project execution as required.

17 — WORKFORCE & OUTSOURCE

# Trades on site. Resources on call.

Direct workforce of skilled trades supported by a vetted outsource pool of labour suppliers and specialist subcontractors — allowing us to scale resources up or down as project demand requires.

## Direct Work Force

DEPARTMENT	DESIGNATION	NUMBER
ELECTRICAL	Electricians	09
PLUMBING	Plumbers	08
HVAC	AC Duct Man	08
HVAC	AC Duct Fabricator	04
HVAC	AC Duct Fitter & Insulator	06
HVAC	Pipe Welder	08
HVAC	Pipe Fabricator	06
HVAC	Pipe Fitter	08
HVAC	AC Technicians	04
OPERATIONS	Helpers	12
OPERATIONS	Driver	02
<b>TOTAL DIRECT WORK FORCE</b>		<b>75</b>

## Outsource

DEPARTMENT	DESIGNATION	NUMBER
OPERATIONS	Labour Supply	30
OPERATIONS	Subcontractors	50
<b>TOTAL OUTSOURCE</b>		<b>80</b>

**WORKFORCE — CONTINUED**

# Active employee roster.

The following roster is drawn directly from our MOHRE establishment record (Est. No. 1561502) — 25 active employees on registered work permits across HVAC, electrical, plumbing, welding, and supervisory trades.

#	EMPLOYEE NAME	DESIGNATION	NATIONALITY
01	MD Nadeem MD Sarfaraj	<b>HVAC</b> AC Assistant	India
02	Afjal Khan Hefajat Khan	<b>HVAC</b> AC Mechanic	India
03	Afraz Haleem Muhammad Haleem Khan	<b>HVAC</b> AC Mechanic	Pakistan
04	Dleep Kumar Ram Budh Singh	<b>HVAC</b> AC Mechanic	India
05	Faizan Ahmed MD Rustam	<b>HVAC</b> AC Mechanic	India
06	MD Irfan MD Abbas	<b>HVAC</b> AC Mechanic	India
07	Ragu Nath Thakur	<b>HVAC</b> AC Mechanic	India
08	Rajab Sekh Kalu Sekh	<b>HVAC</b> AC Mechanic	India
09	Ruel Sunga Manaloto	<b>HVAC</b> AC Mechanic	Philippines
10	Vipin Ram Bali Sharma	<b>HVAC</b> AC Mechanic	India
11	Weerakkody Welegedara	<b>HVAC</b> AC Mechanic	Sri Lanka
12	Budh Ram Ram Ratan	<b>HVAC</b> Central AC Mechanic	India
13	Arvind Kumar Yadav Vijay Yadav	<b>HVAC</b> Central Cooling Asst.	India
14	Sunil Kumar Yadav Vikrma Yadav	<b>HVAC</b> Central Cooling Asst.	India
15	Abbas Ansari Mohammad Yasin Ansari	<b>ELECTRICAL</b> Electrician	India
16	Rajeshwar Prabhu Nath Gaur	<b>ELECTRICAL</b> Electrician	India
17	Sawar Khan Waris Khan	<b>ELECTRICAL</b> Electrician	Pakistan
18	Mohammad Nadim Salimullah	<b>PLUMBING</b> Plumber	India
19	Nadir Khan Hamza Ali Khan	<b>HVAC</b> Refrigeration Mechanic	Pakistan
20	Dananjaya Pushpa Kumara Galgode Gedara	<b>OPERATIONS</b> Sales Officer	Sri Lanka
21	Nezar Mahmoud Shehada Mahmoud	<b>OPERATIONS</b> Sales Officer	Jordan
22	Rakesh Prasad Mohan Prasad	<b>HVAC</b> Welder	India
23	Abdul Quddus Khan Asif Ali Khan	<b>HVAC</b> Welder Assistant	India
24	Shekh Oshim Shekh Shami Akhatar	<b>HVAC</b> Welder Assistant	India
25	Waleed Mohammad Hamdan Hamaydeh	<b>OPERATIONS</b> Construction Supervisor	Jordan
<b>TOTAL ACTIVE EMPLOYEES</b>			<b>25</b>

**MOHRE ESTABLISHMENT**  
**No. 1561502**
**CATEGORY**  
**3**
**PERMIT STATUS**  
**All Active**

18 — EQUIPMENT & TOOLS

# 192 items in active inventory.

A direct inventory of specialist tools and equipment ready for deployment — HVAC welding sets, lifting gear, pipe fabrication, electrical testing, and general MEP installation tools. The following two pages detail our active equipment register.

DEPARTMENT	EQUIPMENT / TOOL	QTY
HVAC	Welding Argon Set & Welding Cable Set	10
HVAC	Chain Block 10T (21m & 12m)	12
HVAC	Chain Block 5T (12m)	20
ELECTRICAL	Generator 50KVA	02
HVAC	Manifold AC Gauge (Imperial US)	03
MEP	Cutting and Grinding Machines	27
MEP	Dewalt Hammer Drill & Battery Drill	08
HVAC/PL	Pipe Threading Machine	03
HVAC	Welding Machine (Edon, Rothenberger, Miller)	10
MEP	HDPE Buttfusion Machine (Rothenberger)	02
MEP	HDPE Electrofusion Machine (Hurner)	02
HVAC	Universal Grooving Manual Machine (WEIDA)	02
MEP	Bosch Professional Rotary Hammer	01
MEP	Electric Pressure Testing Pump	03
PLUMBING	PPR Welding Machine	10



## EQUIPMENT &amp; TOOLS — CONTINUED

# Active inventory register.

DEPARTMENT	EQUIPMENT / TOOL	QTY
HVAC	Flaring & Swaging Set	03
HVAC/EL	Digital Clamp Meter	05
ELECTRICAL	Earth Tester (Hioki)	02
ELECTRICAL	Labelling Machine	01
HVAC/EL	Multimeter	05
MEP	Angle Grinder	08
PLUMBING	PPR Cutter	05
MEP	Air Blower (Makita)	05
MEP	Walkie Talkie	04
MEP	Lifting Trolley 2.5 TON	02
MEP	Aluminium Scaffolding	10
MEP	Aluminium Ladder (8 & 10 Step)	18
HVAC	PI Sheet Cutter	02
MEP	Steel Cutter Machine	02
MEP	HDPE Circular Pipe Cutter	05
<b>TOTAL EQUIPMENT INVENTORY (BOTH PAGES)</b>		<b>192</b>

*Inventory is maintained at central workshop & store, with project-allocation and calibration tracking.*




PARENT · EST. 2017

## Red Sea Eagle

Electromechanical Contracting LLC — SP






GROUP

SISTER · EST. 2022

## Thermodynamics

Trading & Enterprise — Sole Proprietorship



LETTER FROM THE CEO

27 April 2026 · Abu Dhabi


**Thermodynamics Trading & Enterprise — Sole Proprietorship** is a sister company of **Red Sea Eagle Electromechanical Contracting LLC — SP**, with both companies administratively and operationally linked under a single work system.

All financing, management, and operational activities are conducted through Red Sea Eagle, as the principal entity responsible for project execution and management.


Thermodynamics was established to support the company logistically and operationally — including (but not limited to):

- 1 Materials & Equipment Supply** — procurement of materials and equipment for projects.
- 2 Logistics & Supply Chains** — support of supply chains and logistics services.
- 3 Manpower & Technical Cadres** — provision of necessary labour and technical staff.
- 4 Procurement & Supply Operations** — execution of procurement and supply operations related to projects.


We trust this affirmation supports your recognition of Thermodynamics Trading & Enterprise as a complementary and supporting entity to Red Sea Eagle's operations.



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GROUP



SISTER · EST. 2022

*Samer Mahmoud*

Samer Mahmoud  
OWNER & AUTHORIZED SIGNATORY

FOR & ON BEHALF OF  
**Thermodynamics Trading & Enterprise**  
Sole Proprietorship



**THERMO·DYNAMICS**  
TRADING & ENTERPRISE · ABU DHABI

20 — GET IN TOUCH

# Let's build something together.

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Whether you're scoping an MEP package, sourcing HVAC equipment, or planning a long-term facilities engagement — we'd be glad to discuss how we can support your project.

— HEADQUARTERS

Abu Dhabi — Salam Street, UAE

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— EMAIL

[info@thermodynamics.ae](mailto:info@thermodynamics.ae)

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THERMODYNAMICS TRADING & ENTERPRISE  
**MEP · HVAC · Trading**