



**ThermEco**<sup>®</sup>  
INDUSTRIE  
TRAITEMENT DES EAUX ET POMPAGE



CATALOG  
2023 > 2024

### **Innovation, Quality, and Global Excellence**

Welcome to Thermeco Industrie, where innovation meets excellence in the field of reverse osmosis water treatment. We proudly stand as a reputable name in water treatment solutions in Tunisia, with a long history of commitment, innovation, and a drive for worldwide leadership.

### **Our Journey**

Founded in 2007 by Mr. Wajdi Kharrat, Thermeco Industrie is the industrial subsidiary of our parent company, Thermeco. That began as a distributor of water treatment devices and pumps soon evolved into something remarkable. In 2014, we took a strategic turn by establishing our assembly workshop to meet the growing demand for large-scale water treatment systems. This marked a pivotal moment in our history.

### **Unmatched Expertise**

With over fifteen years of experience in this demanding field, Thermeco Industrie has cultivated a young, enthusiastic, and highly motivated team. From engineering and design to programming, everything is 'Made by Thermeco Industrie.' Our commitment to customizing solutions to meet the unique needs of our clients is unwavering.

### **Technical Solutions Across Diverse Industries**

We have proposed technical solutions for different customers and different fields, including residential complexes, agro-food industries, chemical and cosmetic industries, petroleum services, olive growing, poultry companies, and the hotel industry. Our diverse experience allows us to offer tailored solutions to meet the unique demands of each sector.

### **State-of-the-Art Facilities**

Our state-of-the-art production facility spans 1,500 square meters dedicated to production and an additional 2,000 square meters for storage. This extensive space empowers us to efficiently manufacture our systems and maintain a robust inventory to meet our clients's demands seamlessly.

### **Global Presence**

While our roots are firmly grounded in Tunisia as a market leader, our vision knows no borders. We are determined to make our mark on the international stage. We have already begun exporting our products to **Libya, Algeria, France, and Senegal**, driven by the trust our customers place in our products and services.

Thermeco Industrie embodies innovation, quality, and international vision. Our team is ready to take on the challenges of the global market while staying true to our core values. We extend our heartfelt gratitude to our customers, partners, and employees for their continued trust and support. Together, we will build a sustainable and prosperous future.





# QSE Certifications - Quality, Safety and Environment

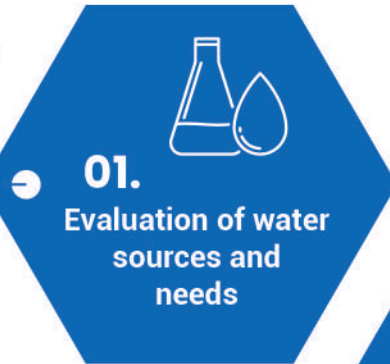
With **Thermeco Industrie**, quality is non-negotiable. We proudly hold certifications under **ISO 9001, 14001, and 45001** standards, showcasing our dedication to quality, environmental responsibility, and information security. Our industry stands as a beacon of environmental friendliness and sustainability.



The design, construction and operation of our water treatment systems requires a set of skills and a planned approach.

The steps we use to finish this process are as follows:

- ▶ Conduct an on-site visit to evaluate current facilities
- ▶ Determine technical limitations
- ▶ Discuss customer needs personally
- ▶ Assessing the quality of water sources



- ▶ Choosing the appropriate process and technology
- ▶ Using the latest basic and detailed engineering design techniques for the treatment process



- ▶ Choose high-quality components suitable for each type of water source
- ▶ Choose durable materials that comply with security and environmental standards



- ▶ System construction and installation:
- ▶ Supervising the construction of the system in compliance with design specifications and quality standards



- ▶ Conduct comprehensive tests to verify proper operation of the system
- ▶ Checking the quality of treated water
- ▶ Ensure that systems are adjusted to improve their performance



- ▶ System startup and monitoring of operational efficiency.
- ▶ Ensure performance and durability of your equipment
- ▶ Ensure proper installation of equipment, pumps, tanks and piping to guarantee proper operation of the system



- ▶ Training relevant personnel on operating, and maintaining systems.
- ▶ Raising awareness among users about the importance of continuous monitoring of the system





**Industry**

**Agricultural Production**

**Pharmaceutical industry**

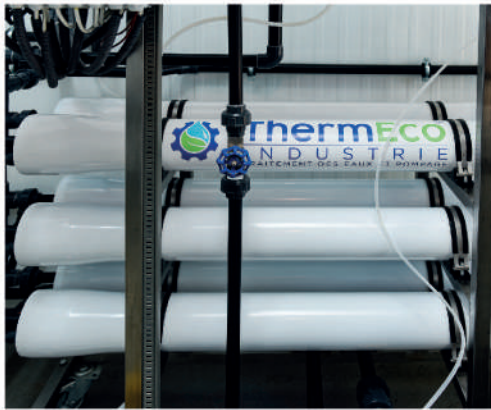
**Animal breeding**

**Hotel and residence**

➔ **Containerized RO system for oil and field sector**



Location	LIBYA
Sector	Oil and field
Daily capacity	30m <sup>3</sup>
TDS Feed water	3000 ppm
TDS Treated water	100 ppm

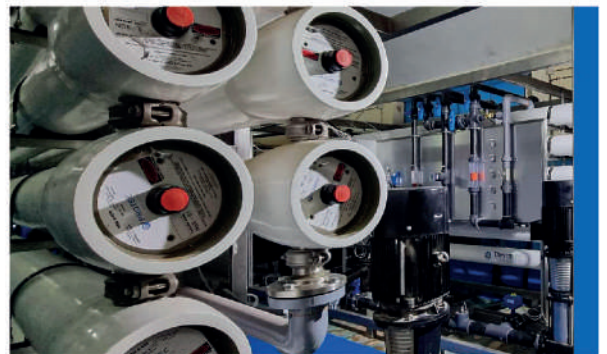




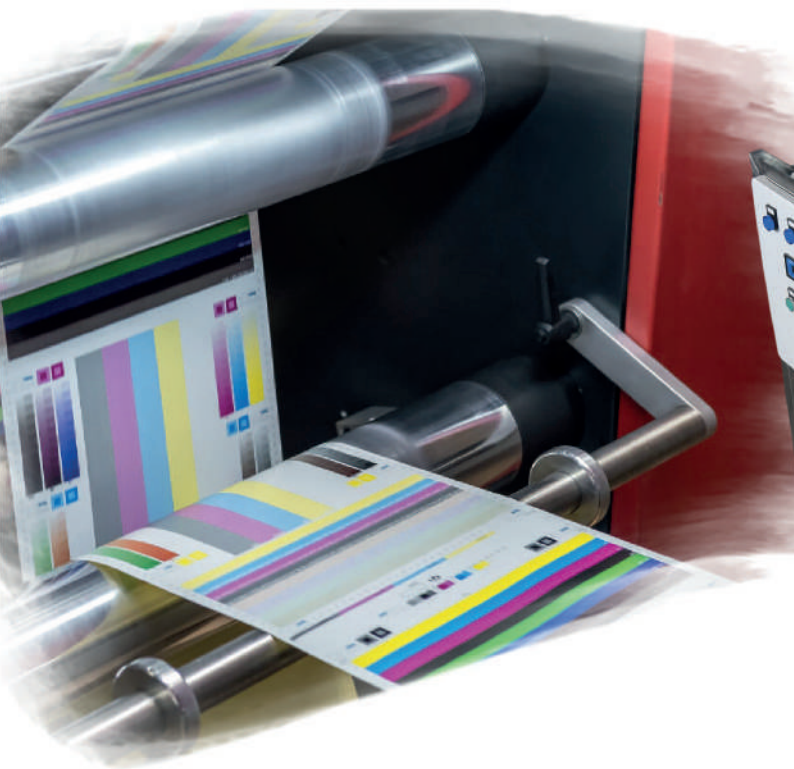
# Drinking water supply for municipal needs



Location	ALGERIA
Sector	Municipal Distribution
Daily capacity	2200 m <sup>3</sup>
TDS Feed water	5000 ppm
TDS Treated water	500 ppm



# → Water treatment for flexographic printing industry



Location	FRANCE
Sector	Flexographic printing industry
Daily capacity	10m <sup>3</sup>
TDS Feed water	700 ppm
TDS Treated water	30 ppm





# → Purified water production plant for hemodialysis centers



Location	TUNISIA
Sector	Hemodialysis
Daily capacity	25 m <sup>3</sup>
TDS Feed water	1600 ppm
TDS Treated water	< 2 ppm





# A water supply project for agri-food needs



Location	SFAX TUNISIA
Sector	Agri-Food
Daily capacity	150 m <sup>3</sup>
TDS Feed water	7000 ppm
TDS Treated water	100 ppm



➔ **A water desalination project for the agricultural sector**



Location	TUNISIA
Sector	Agricultural
Daily capacity	300 m <sup>3</sup>
TDS Feed water	5000 ppm
TDS Treated water	1500 ppm





# A water supply project for poultry farming



Location SFAX TUNISIA

Sector Poultry farming

Daily capacity 350 m<sup>3</sup>

TDS Feed water 5304 ppm

TDS Treated water 800 ppm





# THERMECO INDUSTRIE in key numbers

**+50 QUALIFIED PEOPLE**

**+16 YEARS OF EXPERIENCE**

**+2000 M<sup>2</sup> OF PRODUCTION AND WAREHOUSE AREA**

**+20 MILLION M<sup>3</sup> OF OSMOSIS WATER PRODUCED PER YEAR**



**+50**  
**OSMOSIS SYSTEMS**  
**INSTALLED ABROAD**

## → 8040 Reverse osmosis plant



Model	Number of membrane	Osmosis water flow(l/h)	Power kw
8040-2	2	2400	3 - 4
8040-3	3	3600	4
8040-4	4	4800	4 - 5.5
8040-5	5	6000	5.5 - 7.5
8040-6	6	7200	5.5 - 7.5
8040-8	8	9600	11
8040-9	9	10800	11
8040-10	10	12000	11
8040-12	12	14400	11 - 15
8040-15	15	18000	15 - 18.5
8040-20	20	24000	18.5 - 22
8040-25	25	30000	22 - 30
8040-30	30	36000	30-40
8040-45	45	54000	30-45

Power supply 380V 50/60 Hz  
Auxiliary compressed air supply may be required

### Test conditions:

T=20°C, TDS=800 ppm

Performance varies under different operating conditions:

- ▶ Permeate flow/Temperature: 3-3,5% every 1°C.
- ▶ Permeate/TDS flow: 5-10% every 500 ppm.

### Technical characteristics of feed water:

- ▶ SDI < 3
- ▶ Max TDS < 8000 ppm
- ▶ Temperature (min : max) 10 : 40°C
- ▶ Inlet pressure (min : max) 2 : 5 bars
- ▶ Free chlorine < 0.1 ppm
- ▶ Iron < 0.1 ppm

Other models are available upon customer request

## → 4040 reverse Osmosis Plant



Model	Number of membrane	Osmosis water flow(l/h)	Power kw
4040-1	1	250	1.1
4040-2	2	500	1.1
4040-3	3	750	1.5
4040-4	4	1000	1.5
4040-5	5	1250	2.2
4040-6	6	1500	2.2
4040-9	9	2250	3 - 4
4040-12	12	3000	4 - 5,5

Power supply 380-220 v 50/60 Hz

### Test conditions:

T=20°C, TDS=800 ppm

Performance varies under different operating conditions:

- ▶ Permeate flow/Temperature: 3-3,5% every 1°C
- ▶ Permeate/TDS flow: 5-10% every 500 ppm

### Technical characteristics of feed water:

- ▶ SDI < 3
- ▶ Max TDS < 8000 ppm
- ▶ Temperature (min : max) 10 : 40°C
- ▶ Inlet pressure (min : max) 2 : 5 bars
- ▶ Free chlorine < 0.1 ppm
- ▶ Iron < 0.1 ppm

Other models are available upon customer request



## Bi-osmosis station plant



Model	Number of membrane	Osmosis water flow(l/h)	Power Kw P1	Power kw P2
4040-2-1	3	250	1.1	1.1
4040-3-2	5	500	1.5	1.1
4040-5-4	9	1000	2.2	1.5

Power supply 380-220V 50/60 Hz

### Test conditions:

T=20°C, TDS=800 ppm

Performance varies under different operating conditions:

- ▶ Permeate flow/Temperature: 3-3,5% every 1°C.
- ▶ Permeate/TDS flow: 5-10% every 500 ppm.

### Technical characteristics of feed water:

- ▶ SDI < 3
- ▶ Max TDS < 8000 ppm
- ▶ Temperature (min : max) 10 : 40°C
- ▶ Inlet pressure (min : max) 2 : 5 bars
- ▶ Free chlorine < 0.1 ppm
- ▶ Iron < 0.1 ppm

Other models are available upon customer request



## → 4021 reverse Osmosis Plant



Model	Number of membrane	Osmosis water flow(l/h)	Power Kw
4021-1	1	120	0.7
4021-2	2	240	1.1
4021-3	3	360	1.1

Power supply 220 v 50/60 Hz

### Test conditions:

T=20°C, TDS=800 ppm

Performance varies under different operating conditions:

- ▶ Permeate flow/Temperature: 3-3,5% every 1°C
- ▶ Permeate/TDS flow: 5-10% every 500 ppm

### Technical characteristics of feed water:

- ▶ SDI < 3
- ▶ Max TDS < 8000 ppm
- ▶ Temperature (min : max) 10 : 40°C
- ▶ Inlet pressure (min : max) 2 : 5 bars
- ▶ Free chlorine < 0.1 ppm
- ▶ Iron < 0.1 ppm

Other models are available upon customer request

## → Sand filter with automatic valve



Model	Bottle	Filtration flow in m <sup>3</sup> /h Speed in m/h/m <sup>2</sup>			Charge in Flint 2 - 4 mm Kg	Charge in Flint 1.3 - 2.5 mm Kg	Charge in Flint 0,3 - 0,8 mm Kg	Hydro Anthracite Kg
		10	15	20				
ECO1	24×72	2,7	4,1	5,4	50	50	250	75
ECO2	30×72	4,3	6,5	8,6	125	75	425	125
ECO3	36×72	6,3	9,5	12,6	150	100	575	175
ECO4	48×72	12,2	18,3	24,4	375	200	1000	350
ECO5	63×86	20,9	31,3	41,8	600	700	1100	340
ECO6	2×63×86	41,8	62,2	83,6	2×600	2×700	2×1100	2×340
ECO7	3×63×86	62,7	111,9	125,4	3×600	3×700	3×1100	3×340



# They trust us






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