



**Custom Engineered
Water Treatment Solutions**



Water Purification and Wastewater Solution Providers



Quality Control

All units are factory assembled and tested to ensure efficient operation and performance. The membranes are also factory loaded and tested to endure the required salt rejection and required permeate production levels. Membranes are sanitized before shipping. In some cases where long shipping periods are expected, membranes are loaded at site under Corodex Supervision.

Configuration

All standard Corodex RO models are skid mounted on powder or epoxy coated frames. Other configurations are available upon request.

Integration

Corodex provides all necessary accessories required to integrate our units into an existing desalination system, as an optional feature.

Non Standard System

All standard models can be custom engineered with desired output capacities and different feed and/or permeate water quality.

Control Panel

Weather proof control panel with all necessary sensors and controllers for maximum protection of various components of the RO units specifically the high pressure pump and membranes. Necessary indicators are included to monitor the performance of the RO system. Optional sophisticated control features including MMI (Man Machine Interface) with unique touch screen from reputed manufacturers are available whenever required the control features can be integrated to connect the RO unit with a central control and monitoring systems are available as well.

Container Mounted Reverse Osmosis Plant



Inside View



OCCIDENTAL MUKHAIZIN
NO. BOX 717
AL ATHA'IBH 131
MISCAT, SULTANATE OF OMAN

HIGH BLACKISH WATER
REVERSE OSMOSIS PLANT
NOIEL HWRO 05K
CAPACITY: 1,5600 L/GRD
Corodex INDUSTRIES
P.O. Box 1032, JUBA, U.S.E.
Tel: 1091 4 37985
Fax: 1091 4 47986
E-mail: indstri@corodex.com
Web: www.corodex.com

TAP & BRACKISH WATER REVERSE OSMOSIS PLANT

Corodex Industries RO Standard Models		
Model	Type	Max.TDS Level
TERO	Tap Water RO	3,000
BWRO	Brackish Water RO	7,000
HBWRO	Highly Brackish Water RO	15,000
SWRO	Sea Water RO	45,000
SWRODP*	Double Pass Sea Water RO	70,000

*Custom made system upon request

Standard Features

- Thin film composite membranes
- Stainless steel centrifugal multi stage pumps
- Fiberglass membrane housing
- Antiscalant dosing system
- 5 Micron presediment multi cartridge filter
- Inlet water shutoff valve
- High pressure pipes in 16bar PVC for TWRO models and Stainless steel 316 for BWRO models
- Low pressure pipes in 16 bar PVC
- Stainless steel valves
- Low pressure switch
- Liquid filled pressure gauges
- Reject regulation valve
- Permeate and reject float type flow meters
- Permeate water TDS monitor
- Permeate tank level switch
- 50 Hz motors
- Powder coated steel frame

Operating Conditions of TWRO and BWRO

Max.pressure	: 15bar for TWRO 20 bar for BWRO
Max.Temperature	: 45°C
pH range	: 3-10
Max.TDS	: 3000 ppm for TWRO 7000 ppm for BWRO
Min.salt rejection	: 96%
Average salt rejection	: 98%
Feed water chlorine content	: NIL
Max.feed water SDI	: 3
Max.feed water turbidity	: 1 NTU

STANDARD TWRO MODELS

Model	Production		Dimesions LxWxH(m)	Motor hp		Dry Wt kg
	GPD	m ³ /day		50Hz	60Hz	
TWRO5k	5000	18	2.5x1.2x1.7	1.5	1	220
TWRO6k	6000	23	2.5x1.2x1.7	2.2	1.5	320
TWRO8k	8000	30	3.5x1.2x1.7	2.2	1.5	350
TWRO10k	10000	38	3.5x1.2x1.7	2.2	1.5	380
TWRO12k	12000	45	3.5x1.2x1.7	3	2.2	395
TWRO15k	15000	57	3.5x1.2x1.7	3	2.2	435
TWRO20k	20000	76	4.5x1.2x1.7	4	3	480
TWRO25k	25000	95	4.5x1.5x1.7	4	3	540
TWRO30k	30000	114	4.5x1.5x1.7	5.5	4	580
TWRO35k	35000	133	4.5x1.5x1.7	5.5	4	685
TWRO40k	40000	150	4.5x1.4x2.0	7.5	5.5	850
TWRO60k	60000	227	4.5x1.4x2.0	7.5	5.5	975
TWRO80k	80000	303	7.5x1.4x2.0	10	7.5	1100
TWRO100k	100000	380	7.5x1.4x2.0	15	10	1350
TWRO120k	120000	454	7.5x1.4x2.0	15	12.5	1780
TWRO135k	135000	505	7.5x1.7x2.0	15	12.5	1850
TWRO160k	160000	605	7.5x1.7x2.0	20	17.5	1950
TWRO200k	200000	757	7.5x1.7x2.5	25	20	2950
TWRO240k	240000	910	7.5x2.0x2.5	30	25	3275
TWRO280k	280000	1060	7.5x2.0x2.5	30	25	3700
TWRO320k	320000	1210	7.5x2.0x2.5	30	25	4050
TWRO360k	360000	1362	7.5x2.0x2.5	40	30	4450
TWRO400k	400000	1514	7.5x2.0x2.5	40	30	4800

STANDARD BWRO MODELS

Model	Production		Dimesions LxWxH(m)	Motor hp		Dry Wt kg
	GPD	m ³ /day		50Hz	60Hz	
BWRO5k	5000	18	2.5x1.2x1.7	2.2	1.5	220
BWRO6k	6000	23	2.5x1.2x1.7	3	2.2	320
BWRO8k	8000	30	3.5x1.2x1.7	3	2.2	350
BWRO10k	10000	38	3.5x1.2x1.7	3	2.2	380
BWRO12k	12000	45	3.5x1.2x1.7	4	3	395
BWRO15k	15000	57	3.5x1.2x1.7	4	3	435
BWRO20k	20000	76	4.5x1.2x1.7	5.5	4	480
BWRO25k	25000	95	4.5x1.5x1.7	7.5	5.5	540
BWRO30k	30000	114	4.5x1.5x1.7	7.5	5.5	580
BWRO35k	35000	133	4.5x1.5x1.7	10	7.5	685
BWRO40k	40000	150	4.5x1.4x2.0	15	10	900
BWRO60k	60000	227	4.5x1.4x2.0	15	12.5	1050
BWRO80k	80000	303	7.5x1.4x2.0	25	20	1200
BWRO100k	100000	380	7.5x1.4x2.0	30	25	1450
BWRO120k	120000	454	7.5x1.4x2.0	30	25	1680
BWRO135k	135000	505	7.5x1.7x2.0	30	25	1950
BWRO160k	160000	605	7.5x1.7x2.0	45	40	2195
BWRO200k	200000	757	7.5x1.7x2.5	50	45	3100
BWRO240k	240000	910	7.5x2.0x2.5	60	50	3475
BWRO280k	280000	1060	7.5x2.0x2.5	75	60	3900
BWRO320k	320000	1210	7.5x2.0x2.5	100	75	4050
BWRO360k	360000	1362	7.5x2.0x2.5	100	75	4450
BWRO400k	400000	1514	7.5x2.0x2.5	100	100	4800



HIGHLY BRACKISH AND SEA WATER REVERSE OSMOSIS PLANT

Standard Features

- Thin film composite membranes
- Stainless steel centrifugal multi stage pumps or NAB plunger pump
- Fiberglass membrane housing
- Antiscalant dosing system
- 5Micron presediment multi cartridge filter
- Inlet water shutoff valve
- Low Pressure pipes in 16 Bar PVC
- Stainless steel high pressure pipes
- Stainless steel valves
- Low Pressure switch
- Liquid filled pressure gauge
- Reject regulation valve
- Permeate and reject float type flow meters
- Permeate water TDS monitor
- Permeate tank Level Switch
- 50Hz Motors



Operating Conditions of HBWRO and SWRO

Max. pressure	: 30 bar for HBWRO 82bar for SWRO
Max.temperature	: 45°C
pH range	: 3-10
Max.TDS	: 15000 ppm for HBWRO 45000 ppm for SWRO
Min.Salt rejection	: 96%
Average salt rejection	: 98%
Feed water chlorine content	: NIL
Max.feed water SDI	: 3
Max.feed water turbidity	: 1NTU

STANDARD HBWRO MODELS

Model	Production		Dimesions LxWxH(m)	Motor hp		Dry Wt kg
	GPD	m ³ /day		50Hz	60Hz	
HBWRO5k	5000	18	2.5x1.2x1.7	4	3	220
HBWRO6k	6000	23	2.5x1.2x1.7	4	3	320
HBWRO8k	8000	30	3.5x1.2x1.7	4	3	350
HBWRO10k	10000	38	3.5x1.2x1.7	5.5	4	380
HBWRO12k	12000	45	3.5x1.2x1.7	7.5	5.5	395
HBWRO15k	15000	57	3.5x1.2x1.7	7.5	5.5	435
HBWRO20k	20000	76	4.5x1.2x1.7	15	12.5	480
HBWRO25k	25000	95	4.5x1.5x1.7	15	12.5	540
HBWRO30k	30000	114	4.5x1.5x1.7	20	17.5	580
HBWRO35k	35000	133	4.5x1.5x1.7	20	17.5	685
HBWRO40k	40000	150	4.5x1.4x2.0	20	17.5	850
HBWRO60k	60000	227	4.5x1.4x2.0	35	30	975
HBWRO80k	80000	303	7.5x1.4x2.0	35	30	1100
HBWRO100k	100000	380	7.5x1.4x2.0	50	40	1350
HBWRO120k	120000	454	7.5x1.4x2.0	60	50	1780
HBWRO135k	135000	505	7.5x1.7x2.0	60	50	1850
HBWRO160k	160000	605	7.5x1.7x2.0	75	60	1950
HBWRO200k	200000	757	7.5x1.7x2.5	100	100	2950
HBWRO240k	240000	910	7.5x2.0x2.5	125	100	3275
HBWRO280k	280000	1060	7.5x2.0x2.5	125	125	3700
HBWRO320k	320000	1210	7.5x2.0x2.5	150	120	4050
HBWRO360k	360000	1362	7.5x2.0x2.5	150	120	4450
HBWRO400k	400000	1514	7.5x2.0x2.5	200	150	4800

STANDARD SWRO MODELS

Model	Production		Dimesions LxWxH(m)	Motor hp		Dry Wt kg
	GPD	m ³ /day		50Hz	60Hz	
SWRO2k	2000	7.5	1.0x0.5x0.8	7.5	5	250
SWRO3k	3000	11	1.0x0.5x0.8	10	7.5	400
SWRO4k	4000	15	1.0x0.5x0.8	10	7.5	450
SWRO5k	5000	18	2.5x1.2x1.7	15	10	500
SWRO6k	6000	23	2.5x1.2x1.7	15	10	550
SWRO8k	8000	30	3.5x1.2x1.7	20	15	800
SWRO10k	10000	38	3.5x1.2x1.7	20	15	900
SWRO15k	15000	57	4.5x1.5x1.7	25	20	1100
SWRO20k	20000	76	4.5x1.2x1.7	30	25	1200
SWRO25k	25000	95	4.5x1.5x1.7	40	30	1300
SWRO30k	30000	114	4.5x1.5x1.7	50	40	1400
SWRO50k	50000	190	4.5x1.4x2.0	100	75	1550
SWRO65k	65000	250	5.5x1.4x2.0	125	100	1625
SWRO75k	75000	285	7.5x1.4x2.0	125	100	1750
SWRO100k	100000	380	7.5x1.4x2.0	150	125	1850
SWRO125k	125000	475	7.5x1.4x2.0	200	175	1980
SWRO150k	150000	570	7.5x1.4x2.0	225	200	2250
SWRO175k	175000	665	7.5x1.7x2.0	250	225	2495
SWRO200k	200000	757	7.5x1.7x2.5	275	250	3400
SWRO225k	225000	855	7.5x2.0x2.5	300	250	3775
SWRO250k	250000	950	7.5x2.0x2.5	325	275	410

Accessories



Multimedia Filters

FRP vessels with high quality media including anthracite, brim, silica sand and graded gravel with manual or automatic backwash control.



Cartridge Filters

FRP, stainless steel or PVC multiple cartridge elements for efficient and extended services.



Chemical Dosing System

Diaphragm dosing pump with polyethylene chemical tank and a level switch to protect the pump and RO. Chemical mixers are included if needed.



Chemical Cleaning System

Chemical resistant pump with polyethylene or PVC cleaning tank, filter and other accessories.



Instrumentation Panel



Electrical Control Panel

RO Features:

Optional Features

- Stainless steel centrifugal feed pump
- Manual or automatic sand filter
- Manual or automatic activated carbon filter
- Iron removal filter
- Acid dosing system with pH controller
- Chlorination dosing system
- Feed TDS monitor
- Digital flow meters with totalizers
- Clean in Place (CIP) System
- Automatic flushing valve
- Automatic permeate flushing system
- Permeate pH correction with pH controller
- PLC controlled 60Hz Motors
- 20 micron presediment multi cartridge filter
- Programmable sterilization system
- Automatic blending system
- Double pass RO units



Concorde-Corodex Group

Fire Protection, Water & Wastewater Treatment and Environmental Specialists

Tel: +971 4 3472900 Fax: +971 4 3472796 P.O.Box: 12282 Dubai, UAE

E-mail: info@corodex.com

U.A.E.

Abu Dhabi:

Corodex Electromechanical Contracting

Tel: +971 2 6668771 Fax: +971 2 6667863

Concorde Trading Company

Tel: +971 2 6668770 Fax: +971 2 6667863

Al Jaddaf Electromechanical

Tel: +971 2 5503331 Fax: +971 2 5503332

Corodex Industries

Tel: +971 2 5503331 Fax: +971 2 5503332

Bristol Vehicle Manufacturing Division

Tel: +971 2 5575551 Fax: +971 2 5575550

Al Ain:

Concorde Trading Company

Tel: +971 3 37212515 Fax: +971 3 37211254

Sharjah:

Corodex Agencies

Tel: +971 6 5430800 Fax: +971 6 5430801

Dubai Industrial Gases (DIG)

Tel: +971 6 5347700 Fax: +971 6 5347007

Dubai:

Corodex Industries

Tel: +971 4 3479895 Fax: +971 4 3479896

Bristol Gases

Tel: +971 4 3472436 Fax: +971 4 3472441

Corodex Trading Company

Tel: +971 4 3472900 Fax: +971 4 3472796

Corodex Marine

Tel: +971 4 3472164 Fax: +971 4 3472184

Corodex Agencies (Fire Protection & Automation)

Tel: +971 4 3472530 Fax: +971 4 3472501

Bristol Fire Engineering

Tel: +971 4 3472426 Fax: +971 4 3472363

Corodex Electromechanic Co. (LLC)

Tel: +971 4 3472900 Fax: +971 4 3470059

Corodex Agencies (Safety & Rescue)

Tel: +971 4 2668966 Fax: +971 4 2624617

World Wide

Qatar:

International Gulf Trading Company

Tel: +974 44694340 Fax: +974 44694467

Jordan:

Gulf Sail For Water Technology

Tel: +962 6 5542968 Fax: +962 6 5542967

Oman:

Integrated Engineering Solutions (IES)

Tel: +968 24700349 Fax: +968 24700168

Saudi Arabia:

Concorde Advance Technical Solutions:

Tel: +966 12 695 4993 Fax: +966 12 698 4991

UK:

EFLO International

Tel: + 44 (0) 1295 817623 Fax: + 44 (0) 872 1156890

Distributors

Afghanistan

Algeria

Azerbaijan

Egypt

Iraq

Kazakhstan

Kuwait

Nigeria

Pakistan



corodex Industries

Subsidiary of Concorde-Corodex Group of Companies

Tel: +971 4 3479895 Fax: +971 4 3479896 P.O.Box 12282, Dubai, UAE

Email: info@corodex.com

www.corodexindustries.com

Member of



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**CONCORDE - CORODEX GROUP
OF COMPANIES U.A.E.**

www.corodex.com