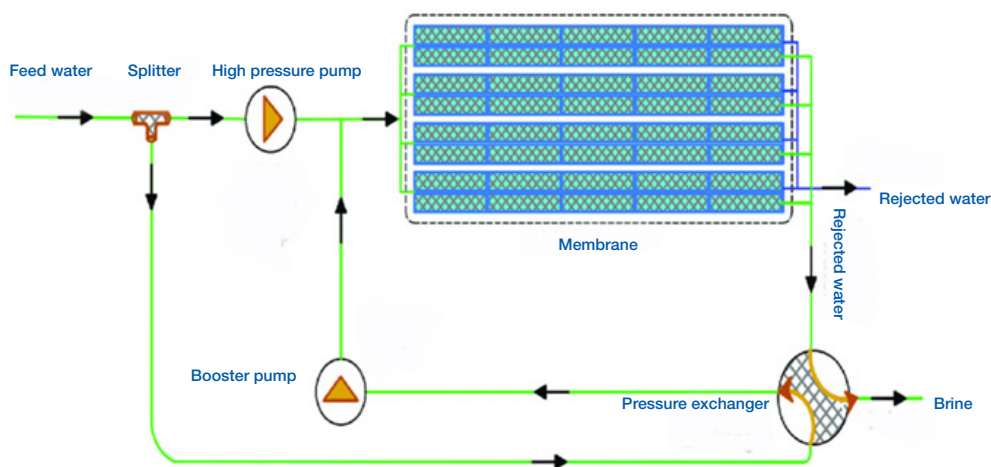


Reverse Osmosis Pump Drives

The reverse osmosis system is used to purify contaminated water or desalinate sea water to make it fit for industrial or human use.

When used in reverse osmosis plants, robust Emotron drives made up of flexible, interchangeable building blocks (PEBBs) ensures a high operational efficiency and low repair requirements.

The reverse osmosis system at a glance



Reverse osmosis (RO) is a special type of filtration that uses a semi-permeable, thin membrane with pores small enough to pass pure water through while rejecting larger molecules such as dissolved salts (ions) and other impurities such as bacteria.

Flexible modular design for smart space solutions

Emotron drives are built up using an interchangeable scalable Power Electronic Building Block structure ideal for high pressure pump applications such as reverse osmosis. Each PEBB module has its own semiconductor fuse which limits possible damage to one module only.

High overload capacity

This unique PEBB technology is a modular approach to high power drives offering exceptional flexibility and redundancy. Higher overload capacity ensures that the requirements of high pressure pump applications are easily met.

Robust drives for high pressure pumps

Emotron FDU drives available in 400-690V are made in an exceptional electrical and mechanical robust design for reliable operations.

The compact IP20 drives can be built in cabinets to accommodate for the limited space available in RO plant containers.

World-renowned leader in high pressure pumps

When **Pact Engineering** was looking for a reliable supplier for drives for their high pressure pumps used in their RO plants, they turned to Emotron. Working with a world-renowned leader in high pressure pumps, a complete system was offered as per stringent specifications.



Emotron VFDs in cabinet



A project for a customer of Pact Engineering



One of the customer application sites in Kazakhstan

Everything built-in

The highly compact FDU series has several built-in features such as:

- ✓ Built in DC chokes for harmonic mitigation
- ✓ Built in EMC filters
- ✓ Coated Boards for corrosive atmospheres
- ✓ Shaft Power Monitor for comprehensive motor protection
- ✓ RS485, Modbus communication as standard
- ✓ PT100 protection (as option)

Application know-how and support at all times

At Emotron, expert knowledge is always at your fingertips. Support is available during the entire process, all the way from the tender stage to commissioning the drive at your site.

Your project team will follow you every step of the way. Emotron offers a global service network for all your service requirements.

Worldwide service network

With a worldwide partner network and remote access solutions, we can offer service contracts to fit your needs. The complete service offer includes:

- ✓ Putting into operation/commissioning
- ✓ 24/7 support
- ✓ Maintenance
- ✓ Security for critical processes
- ✓ Repairs
- ✓ Extended warranty
- ✓ Remote diagnostics
- ✓ Training

We put all our energy into saving yours.



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emotron

DEDICATED DRIVE



A CG Product



DEDICATED DRIVE



About CG Drives & Automation Emotron

CG Drives & Automation has developed, manufactured and delivered efficient and reliable motor control equipment for over 40 years under the brand of Emotron. Since 2011 we form a part of CG Power and Industrial Solutions Ltd., a global pioneering leader in the management and application of electrical energy.

At CG Drives & Automation we use our know-how to create technical solutions that fit your requirements, and our personal commitment to make them work in practice.

Simplicity and reliability are keywords applying to our products and solutions, as well as the service and support that our committed professionals provide.

CG Drives & Automation has five core markets with sites in the Nordics, India, Germany, the Netherlands, MEA and a dedicated partner network worldwide.

www.emotron.com

We put all our energy into saving yours



About Pact Engineering UAE

Established early in 1987 PACT® is an integrated solution provider specialized in Water and Wastewater Treatment applications providing feasible solutions in line with proper control cost of plant and operation for expected products quality.

"Demonstrated Water Wise"

Custom Built Operator Friendly Plants, Engineering To Latest Technology, Designed For Durability, Mineral Upkeep & Lowest Capital Outlay.

PACT® has built a successful compendium at large municipal and industrial application but not limited to; Water treatment technology using Ultra filtration, Reverse Osmosis, and Ion-Exchange and Wastewater Treatment technology such as extended aeration, Activated Sludge, MBR, MBBR, SBR, Liquid and Gas Chlorination Dosing system, UV, Ozonation, and Membrane Separation.

For more than 3 decades, PACT® was able to grow from one person with small under sink water purification to multinational Water Treatment Company, with more than 200 engineers and technicians, and 55'000 Sq. Ft. full fledge fabrication facility. PACT® was able to obtain the ISO certification from one of the most reputable company, TUV NORD, for ISO 9001, 14000 & 18000, as engineering, fabrication and services. PACT® had delivered systems in all 5 continents, (Asia, Africa, the both Americans and Australia), and has already expanded to Europe by opening its Rotterdam office in 2020.

With references covering the whole spectrum of industries, including Chemical, Petrochemical, Pharmaceutical, Metallurgical, Semiconductor, Automobile, Food and beverage, Power and Toiletry, You can trust that PACT® is your

"Complete Solutions provider for Re-using Waste & Keeping the Freshwater hereafter"

www.pactusa.com