Pumping Solutions for Reverse Osmosis Desalination

INNOVATION, DESIGN, MANUFACTURE + AFTERMARKET SERVICES: PUMPING SOLUTIONS FOR A BETTER WORLD

ClydeUnion Pumps
SPX - An Introduction

SPX is a Fortune 500 multi-industry manufacturing leader, headquartered in Charlotte, North Carolina. SPX manufactures and markets products, components, services and technologies that are integral to meeting today's challenges and tomorrow's needs. We are a place where innovation is fostered, and the real needs of business are understood. We transform ideas into powerful solutions to help our customers meet their goals, overcome business challenges and thrive in a complex, always changing marketplace.

SPX’s Flow Technology segment designs, manufactures and markets engineering solutions and products used to process, blend, meter and transport fluids. We also offer equipment for air and gas filtration and dehydration. Our leading brands have global operations which service the food + beverage, power + energy, and industrial processes.

CLYDEUNION PUMPS, AN SPX BRAND - GENERATIONS OF EXPERIENCE

Whilst the name is relatively new, the ClydeUnion Pumps brand is known worldwide for supplying reliable and robust engineered pumping solutions stemming from over 140 years of industry expertise. Our experience spans across several complex industries including oil and gas, nuclear and conventional power generation, desalination and other key markets relevant to our product portfolio.

ClydeUnion Pumps
Driven by customer satisfaction

ClydeUnion Pumps, an SPX brand, understands the needs of the desalination market. After its formation in 2008, ClydeUnion Pumps brought together engineering expertise and experience from throughout its global organization to create a specialist team focused solely on serving the desalination industry and meeting its specific requirements. ClydeUnion Pumps delivers best efficiency, performance and quality at market leading pricing.

The company is strategically aligned with customers’ requirements and is fully committed to the working practices, and demands of scheduling, efficiency and reliability, prevailing within the desalination industry. This allows ClydeUnion Pumps to build considerable advantages into the services offered.

Within the desalination market, ClydeUnion Pumps offers a comprehensive range of products to cover all applications from intake pumps through to product distribution and pipeline pumps. ClydeUnion Pumps is the complete ‘one stop shop’ pump provider for all your needs.
More than 70% of the Earth’s surface is covered by water. Fresh water constitutes only 2.7% of the total water available on Earth, of which less than 1% is readily accessible for direct human use. It is estimated that the world’s water consumption rate will exceed its supply by over 50% to 2025.

Water availability map

WATER AVAILABILITY MAP KEY

- LITTLE OR NO WATER SCARCITY
- PHYSICAL WATER SCARCITY
- APPROACHING PHYSICAL WATER SCARCITY
- ECONOMIC WATER SCARCITY
- NOT ESTIMATED
ClydeUnion Pumps, an SPX Brand, understands the growing needs for fresh water and its impact on the environment and global economy. ClydeUnion Pumps focuses on the desalination market as a key area for cutting-edge technology and continuous improvement.

ClydeUnion Pumps is proud to present a comprehensive range of pumps for desalination plants covering all applications from seawater pre-treatment to fresh water distribution into pumping stations. ClydeUnion Pumps is a world leader in the supply of reliable pumping solutions.

Through a culture of engineering excellence and a customer-centred approach, ClydeUnion Pumps has positioned itself at the cutting edge of pump design in the desalination market.

Desalination - a global requirement supported by ClydeUnion Pumps
Reverse Osmosis Desalination

Reverse Osmosis (RO) Desalination is a viable and cost effective technique used to meet fresh water needs as the population increases by 2% per year and simultaneously counterbalances the decrease in conventional resources available. RO Desalination uses electrical energy to feed the drive pump motors which are essential in the process. ClydeUnion Pumps is fully qualified to install pumps on RO Desalination plants and ensures the coverage of all stages of the RO Desalination process, from the seawater pre-treatment to the distribution of produced water.
ClydeUnion Pumps expertise applied to the desalination industry

**PITTING RESISTANCE EQUIVALENT NUMBER (PREN) V MATERIALS**

>40
38.4
27.5

**MATERIALS**
- Stainless Steel 316L
- Duplex Stainless Steel 4A
- Super Duplex Stainless Steel 5A
- Super Duplex Stainless Steel 6A

*“The index shows that the resistance to corrosion increases with the type of material used”*

**CUTTING - EDGE MATERIALS TO MAXIMISE DESALINATION PUMPS RELIABILITY**

ClydeUnion Pumps, through its heritage links, understands the desalination market and other arduous sea water applications where pumps can be affected by stress corrosion cracking, crevice corrosion and pitting in chloride bearing environments. Through continuous investment in R&D, ClydeUnion Pumps ensures correct material selection to overcome the issues of corrosion and abrasion.
## Product ranges

### Single + Two Stage Pumps

<table>
<thead>
<tr>
<th>Designation</th>
<th>CUP</th>
<th>Flows Up To</th>
<th>Heads Up To</th>
</tr>
</thead>
<tbody>
<tr>
<td>Single stage end suction pump</td>
<td>Isoglise</td>
<td>1,000</td>
<td>4,400</td>
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<td>Single stage large end suction pump</td>
<td>Aquaglide</td>
<td>10,000</td>
<td>44,000</td>
</tr>
<tr>
<td>Single stage axially split between bearings pump</td>
<td>Uniglide - e</td>
<td>4,000</td>
<td>17,600</td>
</tr>
<tr>
<td>Single / two stage axially split between bearings pump</td>
<td>Uniglide</td>
<td>20,000</td>
<td>88,000</td>
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<tr>
<td>Two stage axially split between bearings pump</td>
<td>Duoglide - e</td>
<td>1,350</td>
<td>5,950</td>
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<tr>
<td>Two stage axially split between bearings pump</td>
<td>Duoglide</td>
<td>2,500</td>
<td>11,000</td>
</tr>
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<td>Single stage vertical in-line pump</td>
<td>OH4 / VHK</td>
<td>1,365</td>
<td>7,200</td>
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<tr>
<td>Single stage end suction pump</td>
<td>OH2 - HHS</td>
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<td>7,200</td>
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### Multistage Pumps

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<tr>
<td>Multistage - radially split diffuser pump</td>
<td>HPRO</td>
<td>3,000</td>
<td>13,212</td>
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<tr>
<td>Multistage axially split</td>
<td>CUP-BB3 Desal</td>
<td>2,750</td>
<td>12,000</td>
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<td>Submersible motor driven pump</td>
<td>Uelectriglide</td>
<td>3,400</td>
<td>15,000</td>
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<tr>
<td>Vertical turbine pump</td>
<td>SBWM</td>
<td>40,000</td>
<td>176,000</td>
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### Reciprocating Pumps

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<td>Power driven small (single acting plunger) - simplex/duplex/triplex</td>
<td>Small Power</td>
<td>17</td>
<td>75</td>
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<tr>
<td>Power driven medium (single acting plunger) - triplex/quintex</td>
<td>Medium Power</td>
<td>87</td>
<td>385</td>
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<tr>
<td>Power driven large (single acting) - triplex/quintex</td>
<td>Large Power</td>
<td>146</td>
<td>645</td>
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<tr>
<td>Power driven geared (internally geared)</td>
<td>Geared Power</td>
<td>142</td>
<td>625</td>
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ClydeUnion Pumps, an SPX Brand, product detail - single + two stage pumps

ISOGLIDE
The ClydeUnion Pumps Isoglide range of end suction pumps complies with international standard ISO 2858. The modular design of this range ensures minimal spares holding and optimum delivery times can be achieved.

APPLICATION
- Intake Pump
- Booster Pump

TECHNICAL DATA
- Capacity: up to 1,000 m³/hr / 4,400 USgpm
- Delivered head: up to 120 m / 400 feet
- Temperature: up to 80°C / 180°F
- Speeds: up to 3,600rpm
- Flange drilling: BS or ANSI

AQUAGLIDE
Aquaglide is a large end suction pump, developed for high capacity water pumping applications. Tailored to your needs, Aquaglide covers duties from 250 m³/hr to 10,000 m³/hr.

APPLICATION
- Intake Pump
- Booster Pump

TECHNICAL DATA
- Capacity: up to 10,000 m³/hr / 44,000 USgpm
- Delivered head: up to 120 m / 400 feet
- Temperature: up to 80°C / 180°F
- Speeds: up to 1,500rpm
- Flange drilling: BS or ANSI

UNIGLIDE - e
Developed following major consultation with end users the Uniglide-e is our latest generation of axially split double entry pumps, providing highest efficiency, total reliability and reduced through life costs. It is available in horizontal and vertical arrangements.

APPLICATION
- Intake Pump
- Booster Pump
- 2nd Pass Pump
- Brine Pump
- Cleaning + Flushing Pump

TECHNICAL DATA
- Capacity: up to 4,000 m³/hr / 17,600 USgpm
- Delivered head: up to 200 m / 670 feet
- Temperature: up to 80°C / 180°F
- Speeds: up to 1,800rpm
- Flange drilling: BS or ANSI

UNIGLIDE
Uniglide is an engineered to order axial split, double suction pump. This traditional range is available in large capacities up to 20,000 m³/hr / 88,000 USgpm.

APPLICATION
- Intake Pump
- Booster Pump
- 2nd Pass Pump
- Brine Pump
- Produced Water Pump
- Cleaning + Flushing Pump

TECHNICAL DATA
- Capacity: up to 20,000 m³/hr / 88,000 USgpm
- Delivered head: up to 350 m / 1,100 feet
- Temperature: up to 80°C / 180°F
- Speeds: up to 3,600rpm
- Flange drilling: BS or ANSI
DUOGLIDE
Duoglide is an axially split two stage pump. Designed for higher head / flow applications, Duoglide provides higher efficiency and lower maintenance than traditional ring section or high speed single stage pumps.

APPLICATION
- Intake Pump
- Booster Pump

TECHNICAL DATA
Capacity: up to 2,500 m³/hr / 11,000 USgpm
Delivered head: up to 320 m / 1,050 feet
Temperature: up to 80°C / 180°F
Speeds: up to 1,800rpm
Flange drilling: BS or ANSI

DUOGLIDE-E
Duoglide-e is the latest generation of axial split two stage pumps. The range has been developed using the latest 3D and FEA analysis software together with extensive consultation of major users, producing an advanced pump which will provide total reliability and reduced whole life costs.

APPLICATION
- Intake Pump
- Booster Pump

TECHNICAL DATA
Capacity: up to 1,350 m³/hr / 5,950 USgpm
Delivered head: up to 275 m / 910 feet
Temperature: up to 80°C / 180°F
Speeds: up to 1,800rpm
Flange drilling: BS or ANSI

CUP-OH4 (VHK)
CUP-OH4 (VHK) is an advanced design single stage vertical in-line centrifugal pump with exceptional flexibility and versatility to meet the requirements of a wide variety of pumping applications. CUP-OH4 (VHK) is designed for ERD boosting application with high suction pressure.

APPLICATION
- HP Booster Pump (ERD)
- Interstage Pressure Boost Pump

TECHNICAL DATA
Capacity: up to 1,365 m³/hr / 1,100 USgpm
Delivered head: up to 335 m / 1,310 feet
Temperature: up to 80°C / 180°F
Speeds: up to 3,600rpm
Flange drilling: BS or ANSI

CUP-OH2
CUP-OH2 is a heavy duty, single stage, radially split, overhung, end suction pump, designed and manufactured to the latest edition of API 610. CUP-OH2 is designed for ERD boosting application with high suction pressure.

APPLICATION
- HP Booster Pump (ERD)
- Product Water Pump

TECHNICAL DATA
Capacity: up to 1,635 m³/hr / 7,200 USgpm
Delivered head: up to 400 m / 1,300 feet
Temperature: up to 80°C / 180°F
Speeds: up to 4,000rpm
Flange drilling: BS or ANSI
ClydeUnion Pumps, an SPX Brand, product detail - multi-stage pumps

**HPRO**
The ClydeUnion Pumps HPRO (High Pressure Reverse Osmosis) pump is a radially split diffuser multi-stage pump designed specifically for the requirements of desalination plants. It features superior efficiencies and lower capital costs than equivalent pumps as well as numerous unique design features that ensure minimum through life costs and maximum reliability in service.

**APPLICATION**
- HP Pump
- 2nd Pass Pump
- Produced Water Pump

**TECHNICAL DATA**
- Capacity: up to 3,000 m³/hr / 13,000 USgpm
- Delivered head: up to 800 m / 2,660 feet
- Temperature: up to 180°C / 350°F
- Speeds: up to 3,600rpm
- Flange drilling: BS or ANSI

**CUP-BB3 DESAL**
CUP-BB3 Desal is an axial split case horizontal pump with opposing impellers, designed for heavy duty, medium and high-pressure applications.

**APPLICATION**
- HP Pump
- 2nd Pass Pump
- Produced Water Pump

**TECHNICAL DATA**
- Capacity: up to 3,000 m³/hr / 13,000 USgpm
- Delivered head: up to 800 m / 2,660 feet
- Temperature: up to 80°C / 180°F
- Speeds: up to 3,600rpm
- Flange drilling: BS or ANSI

**SBWM**
SBWM is a vertically suspended lineshaft driven pump. Its extensive range of hydraulics gives a comprehensive range of heads & flows whilst various drive arrangements allow above and below floor discharge options.

**APPLICATION**
- Intake Pump

**TECHNICAL DATA**
- Capacity: up to 40,000 m³/hr / 176,000 USgpm
- Delivered head: up to 100 m / 330 feet
- Temperature: up to 80°C / 180°F
- Speeds: up to 3,600rpm
- Flange drilling: BS or ANSI

**ULECTRIGLIDE**
Uelectriglide is a submersible motor driven pump. The pump set comprises a single or multi-stage submerged bowl pump directly coupled to a submerged water filled squirrel cage motor. This motor is supported by a rising main column pipe delivering water to the platform. This pipe is generally supplied in duplex or super duplex stainless steels.

**APPLICATION**
- Intake Pump

**TECHNICAL DATA**
- Capacity: up to 3,400 m³/hr / 15,000 USgpm
- Delivered head: up to 200 m / 670 feet
- Temperature: up to 80°C / 180°F
- Speeds: up to 3,600rpm
- Flange drilling: BS or ANSI
Reciprocating pumps

ClydeUnion Pumps reciprocating power pumps are ruggedly designed for minimum maintenance and meet all heavy duty requirements of continuous operation in the desalination industry. These units are driven via electric motors or diesel engines through V-belt or gear reduction. Stuffing boxes are specifically designed for applications to maximize packing life and minimize maintenance.

<table>
<thead>
<tr>
<th>SMALL POWER</th>
<th>MEDIUM POWER</th>
<th>LARGE POWER</th>
<th>GEARED POWER</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Capacity:</strong></td>
<td>up to 17 m³/hr / 75 USgpm</td>
<td>up to 87 m³/hr / 385 USgpm</td>
<td>up to 146 m³/hr / 645 USgpm</td>
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<tr>
<td><strong>Discharge pressure:</strong></td>
<td>up to 6,900 m / 23,000 feet (10,000 psi)</td>
<td>up to 6,900 m / 23,000 feet (10,000 psi)</td>
<td>up to 6,900 m / 23,000 feet (10,000 psi)</td>
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<tr>
<td><strong>Temperature:</strong></td>
<td>up to 182 °C / 360 °F</td>
<td>up to 177 °C / 350 °F</td>
<td>up to 177 °C / 350 °F</td>
</tr>
<tr>
<td><strong>Speeds:</strong></td>
<td>up to 440 rpm depending on model</td>
<td>up to 400 rpm depending on model</td>
<td>up to 290 rpm</td>
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<tr>
<td><strong>Models include:</strong></td>
<td>SX3, DX5, TX10, TD28, TD30, TD60, TD90</td>
<td>QD100, TD120, QD200</td>
<td>TD240, QD400</td>
</tr>
</tbody>
</table>

**APPLICATION**
- HP Pump

**APPLICATION**
- HP Pump

**APPLICATION**
- HP Pump

**APPLICATION**
- HP Pump
ClydeUnion Pumps after sales support extends across all of its legacy brands as well as new equipment, and provides full backup for obsolete products and for third party equipment. The parts ClydeUnion Pumps supply meet the original specification, or are upgraded where appropriate, and many components can be covered by a Rapid Response option which can have parts on site within 24 hours.

ClydeUnion Pumps after sales support is subject to the same supply chain management as the pump manufacturing. This provides customers with the lowest lead times and costs whilst meeting the highest standards of quality assurance.

In addition to spare parts, routine servicing, overhauls and inventory control, the aftermarket support covers upgrades and comprehensive technical advice about the potential refitting of existing installations for greater efficiency and reliability. ClydeUnion Pumps can work with your own engineers to carry out meticulous inspections and advise on maintenance schedules, carry out full vibration analysis, pressure and pulsation testing, and train your service personnel.

ClydeUnion Pumps history and breadth of experience, as well as its geographical coverage and expertise, make it the natural first choice for any pump related problem or enquiry, no matter what the location, the scale of the task or the original manufacturer. We guarantee supply of parts for all heritage brands and/or obsolete products, including:

- Weir Pumps
- Clyde Pumps
- Union Pump
- Girdlestone
- Mather & Platt
- Harland
- Drysdale
- WH Allen
- Allen Gwynnes
- David Brown Pumps
- DB Guinard Pumps
- American Pump
- Pumpline

Lifetime worldwide support

Every product ClydeUnion Pumps supplies is supported by a full lifetime commitment. ClydeUnion Pumps provides a full aftermarket service, drawing on either its own engineers or fully trained and highly experienced service partners, depending on the location of the installation. ClydeUnion Pumps has service facilities in over 40 countries spread throughout Europe, America, Asia, the Middle East and Africa.
## Global locations

### EUROPE

<table>
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<th>City</th>
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<th>Email</th>
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</thead>
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<tr>
<td>Annecy</td>
<td>+(33) 45 005 5600</td>
<td>+(33) 45 005 5880</td>
<td><a href="mailto:cu.annecy@spx.com">cu.annecy@spx.com</a></td>
</tr>
<tr>
<td>Glasgow</td>
<td>+(44) 141 637 7141</td>
<td>+(44) 141 633 2399</td>
<td><a href="mailto:cu.glasgow@spx.com">cu.glasgow@spx.com</a></td>
</tr>
<tr>
<td>Milan</td>
<td>+(39) 02 84 672 230</td>
<td>+(39) 02 64 672 400</td>
<td><a href="mailto:cu.milan@spx.com">cu.milan@spx.com</a></td>
</tr>
<tr>
<td>Moscow</td>
<td>+(7) 495 967 3453</td>
<td>+(7) 495 785 0836</td>
<td><a href="mailto:cu.moscow@spx.com">cu.moscow@spx.com</a></td>
</tr>
<tr>
<td>Paris</td>
<td>+(33) 14 717 1440</td>
<td>+(33) 14 717 1412</td>
<td><a href="mailto:cu.paris@spx.com">cu.paris@spx.com</a></td>
</tr>
<tr>
<td>Penistone</td>
<td>+(44) 122 676 3311</td>
<td>+(44) 122 676 6535</td>
<td><a href="mailto:cu.penistone@spx.com">cu.penistone@spx.com</a></td>
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### AMERICAS

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<tr>
<td>Baton Rouge, LA</td>
<td>+(1) 225 775 2660</td>
<td>+(1) 225 774 7555</td>
<td><a href="mailto:cu.batrouge@spx.com">cu.batrouge@spx.com</a></td>
</tr>
<tr>
<td>Battle Creek, MI</td>
<td>+(1) 269 968 4600</td>
<td>+(1) 269 962 5447</td>
<td><a href="mailto:cu.battlecreek@spx.com">cu.battlecreek@spx.com</a></td>
</tr>
<tr>
<td>Burlington, ON</td>
<td>+(1) 905 315 3800</td>
<td>+(1) 905 336 2693</td>
<td><a href="mailto:cu.burlington@spx.com">cu.burlington@spx.com</a></td>
</tr>
<tr>
<td>Calgary, AB</td>
<td>+(1) 403 236 8725</td>
<td>+(1) 403 236 7224</td>
<td><a href="mailto:cu.calgary@spx.com">cu.calgary@spx.com</a></td>
</tr>
<tr>
<td>Los Angeles, CA</td>
<td>+(1) 562 622 2380</td>
<td>+(1) 562 622 2375</td>
<td><a href="mailto:cu.downey@spx.com">cu.downey@spx.com</a></td>
</tr>
<tr>
<td>Houston, TX</td>
<td>+(1) 281 372 5040</td>
<td>+(1) 281 372 5042</td>
<td><a href="mailto:cu.houston@spx.com">cu.houston@spx.com</a></td>
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### SOUTH AMERICA

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<tr>
<td>Itapira, SA</td>
<td>+(55) 19 3843 9820</td>
<td>+(55) 19 3863 3947</td>
<td><a href="mailto:cu.brasil@spx.com">cu.brasil@spx.com</a></td>
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<td>Beijing</td>
<td>+(86) 106 598 9500</td>
<td>+(86) 106 598 9505</td>
<td><a href="mailto:cu.beijing@spx.com">cu.beijing@spx.com</a></td>
</tr>
<tr>
<td>Indonesia</td>
<td>+(62) 21 763 5559</td>
<td>+(62) 21 753 6031</td>
<td><a href="mailto:cu.indonesia@spx.com">cu.indonesia@spx.com</a></td>
</tr>
<tr>
<td>New Delhi</td>
<td>+(91) 120 4640 400</td>
<td>+(91) 120 4640 401</td>
<td><a href="mailto:cu.newdelhi@spx.com">cu.newdelhi@spx.com</a></td>
</tr>
<tr>
<td>Shanghai</td>
<td>+(86) 216 160 6968</td>
<td>+(86) 216 160 6968</td>
<td><a href="mailto:cu.shanghai@spx.com">cu.shanghai@spx.com</a></td>
</tr>
<tr>
<td>Singapore</td>
<td>+(65) 62 76 7117</td>
<td>+(65) 62 78 7117</td>
<td><a href="mailto:cu.singapore@spx.com">cu.singapore@spx.com</a></td>
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### MIDDLE EAST/AFRICA

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<tr>
<td>Abu Dhabi</td>
<td>+(971) 2 659 1480</td>
<td>+(971) 2 659 1481</td>
<td><a href="mailto:cu.uae@spx.com">cu.uae@spx.com</a></td>
</tr>
<tr>
<td>Algeria</td>
<td>+(213) 21 69 2319</td>
<td>+(213) 21 60 3046</td>
<td><a href="mailto:cu.algeria@spx.com">cu.algeria@spx.com</a></td>
</tr>
<tr>
<td>Angola</td>
<td>+(244) 923 516 224</td>
<td>+(1) 281 445 4081</td>
<td><a href="mailto:cu.angola@spx.com">cu.angola@spx.com</a></td>
</tr>
<tr>
<td>Dubai</td>
<td>+(971) 4 880 7756</td>
<td>+(971) 4 886 1133</td>
<td><a href="mailto:cu.uae@spx.com">cu.uae@spx.com</a></td>
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