DILUTION OF STRONG ACID

H₂SO₄ OR HCl DILUTION PROCESS TECHNOLOGY

A UNIQUE TECHNOLOGY TO OPTIMIZE PRODUCTION

BENEFIT #1 : OPERATION
Can be used for:
- continuous operation
- batch operation.

BENEFIT #2 : CONCENTRATION
Can be used to deliver diluted acid at any concentration.

BENEFIT #3 : VERSATILITY
Can be used for all corrosive fluids:
- HCl (hydrochloric acid)
- H₂SO₄ (sulfuric acid)
- HF (hydrofluoric acid)

BENEFIT #4 : ENERGY SAVING
Can be used to recover heat coming from the exothermic reaction between strong acid and water.

HEAT EXCHANGER MADE IN GRAPHILOR®
THE WEAPON OF CHOICE FOR CORROSION RESISTANCE
(NOTE: OTHER MATERIALS ALSO AVAILABLE SUCH AS SILICON CARBIDE, ETC.)

Processtechno.ace@mersen.com
# Dilution of Strong Acid

**H₂SO₄ or HCl Dilution Process Technology**

Mersen proposes three packages with options:

<table>
<thead>
<tr>
<th>Package</th>
<th>Description</th>
<th>Options</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Basic Package</strong></td>
<td>INCLUDES PIPING, INSTRUMENTATION AND MIXER IN A SKID PACKAGE.</td>
<td>- Generally perfect for diluting 93% acid below ~15% wt.</td>
</tr>
<tr>
<td><strong>Standard Package</strong></td>
<td>INCLUDES PIPING, INSTRUMENTATION, MIXER AND A HEAT EXCHANGER IN A SKID PACKAGE.</td>
<td>- Perfect for diluting 98% acid to above ~70% or for diluting 93% acid above ~15%</td>
</tr>
<tr>
<td><strong>Premium Package</strong></td>
<td>INCLUDES PIPING, INSTRUMENTATION, MIXER AND TWO HEAT EXCHANGERS IN A SKID PACKAGE.</td>
<td>- Perfect for diluting 98% acid below ~70%</td>
</tr>
</tbody>
</table>

The Flexi+ and/or Pump+ options can add a complete control system and/or feed pumps to any of the above packages.