Wiped Film Evaporators (WFE) are extensively used for evaporation applications in distilling, concentrating, stripping, reaction of products that involve high viscosity, high boiling points and heat sensitivity.

**Advantages:**
- Continuous processing for heat sensitive, fouling and viscous products
- Short residence time
- High heat Transfer coefficients
- Low hold up with minimum losses
- Easy operation with low maintenance

**Salient features:**
- Advanced automation with PLC/SCADA (optional)
- Heating circulator or chiller can be included
- Vacuum pump can be included
**Working principle:**

Operational process of WFE involves thermal separation of mixture by formation of a thin film on the shell surface.

A rotating distribution plate with special designed wipers help in forming of the film on shell for the feed from the feed vessel. The rotor is responsible for stabilizing the liquid film on the heating surface. The thin film formed helps in efficient heat transfer for viscous heat sensitive fluids.

The vapors travel through vapor line to a condenser and hence are condensed. Provision of a condenser makes it a molecular distilling unit.

Higher boiling components or products are collected in the receiver through product outlet.

The rotors and wipers are specially designed to form a thin film.
<table>
<thead>
<tr>
<th>Sr No.</th>
<th>MODEL</th>
<th>Surface Area(m²)</th>
<th>Feed tank capacity (L)</th>
<th>Receiver capacity (L)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>DN215</td>
<td>0.675</td>
<td>80</td>
<td>30 (2 No.)</td>
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<td>2.</td>
<td>DN200</td>
<td>0.628</td>
<td>80</td>
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<td>3.</td>
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<td>50</td>
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<td>4.</td>
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<td>0.188</td>
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<tr>
<td>5.</td>
<td>DN80</td>
<td>0.100</td>
<td>2</td>
<td>2 (2 No.)</td>
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</tbody>
</table>

Chem Flowtronics, Inc.  
195 Paterson Avenue. Suite 4. Little Falls, NJ 07424, USA