The liquid application unit is a complete liquid system for controlled addition of a liquid flow of fat, oil, molasses or other liquids. The liquid addition is controlled by a computer or operates with a fixed amount preset at a control panel. The ANDRITZ liquid application unit is ready for installation in a closed cabinet with connecting nozzles. The unit is made of steel grades suitable for the liquid media.

**THE LIQUID APPLICATION UNIT MAY CONSIST OF:**
- Insulated cabinet with hinged front doors for operation and service. Side, back and top cabinet covers are bolted onto the frame and are detachable.
- Dosing pump suitable for the liquid medium
- Electronic flow meter, optional.
- Liquid filter for manual cleaning when the unit is idle
- Manual drawing off for control of dial gauge/flow meter
• Thermometers, pressure gauges, ball valves, and safety valves
• Hot-water boiler with thermostatically controlled heating coil, pressure expansion tank, circulation pump, and heating surface for internal heating of cabinet or external heating of coater, nozzle pipe, and other pipes where a constant temperature is desired.

**CONNECTIONS**
• Outside connections for pipes from tank to liquid unit
• Outside connection for return pipe to tank
• Drain for cabinet cleaning.
• Outside connection for pipe to point of consumption

**APPLICATION/FUNCTION**
The liquid application unit is applied in process lines for e.g.:
• Liquid dosing to batch mixers with formula-controlled liquid amount per batch
• Liquid dosing to coater with variable liquid flow. Continuous regulating in proportion to the material flow measured continuously by a belt weigher, for example.
• Liquid dosing to pre-conditioner for pellet press, feed expander, or extruder either by volume dosing via feeder screw speed or in proportion to the material amount passing through a loss-in-weight system.

**TECHNICAL DATA**

**Liquid application unit**

<table>
<thead>
<tr>
<th>Cabinet dimensions</th>
<th>Single cabinet DN32/40/50</th>
<th>1210x800x1800</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Single cabinet DN50/65/80</td>
<td>1500x1200x1800</td>
</tr>
<tr>
<td></td>
<td>Single cabinet &gt; DN125</td>
<td>2000x1500x1800</td>
</tr>
<tr>
<td></td>
<td>Double cabinet DN32/40/50</td>
<td>2400x800x1800</td>
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<tr>
<td></td>
<td>Double cabinet DN50/65/80</td>
<td>2400x1200x1800</td>
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<tr>
<td></td>
<td>Triple cabinet</td>
<td>3500x1500x1800</td>
</tr>
</tbody>
</table>

**Flow ranges**
- Fat and oils: 50~20000 L/H
- Molasses: 50~3000 L/H

**Filters**
- Mesh sizes: 0.56 mm / 0.95 mm / 3.30 mm
- Coupling: Single filter
- Double filtration (parallel)
- Double filtration (series)

**Weight**
- Weight depends on specific configuration
- Single cabinet DN32/40/50 in general configuration weighs approximately 650 kg