PERFOPLATE SCREEN

The PERFOPLATE is the ideal machine for the pre-treatment of the wastewater. The PERFOPLATE was designed with attention to the critical design points.

For this reason, the PERFOPLATE has no submerged mechanical components. The motion of the chain is carried out only in the upper part, while in the lower zone there is no gear, but only one pair of sliding shoes.

The PERFOPLATE is designed for simple installation in a concrete channel.

The PERFOPLATE consists in a Stainless-Steel frame and is designed to be positioned in a channel with a 75° inclination. The screen is equipped with a stainless steel holed sheet with a spacing Ø between 2 and 10mm.

The operation of the screen is automatic; the wastewater, passing into the screen, are filtered and once the water rise from the particles blinding the perforations the level reach the pre-set level, automatically activates the cleaning system of the filter screen.

The brushes perform the cleaning and also the transport operation until the discharge placed on the top. A gear-motor actuates the brush mechanism transmission.
MODELS AND DIMENSIONS

The PERFOPLATE can be manufactured in Stainless Steel AISI304-316 (L), and is fully customizable according to the customer needs, but anyways we offer a standard range, which can help the customer in his final choice:

NUMBER OF BRUSH [2-6]: 2 brush standard plus one for every 3 feet in height to a maximum of 6.

ANGLE OF INSTALLATION: 75°

Installation angle standard. 80 & 90° installation angles available in special execution (75° shown in table below).

<table>
<thead>
<tr>
<th>MODEL</th>
<th>Channel width</th>
<th>Total length</th>
<th>Discharge height from channel bottom</th>
<th>Screen width</th>
<th>Screen height</th>
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<tbody>
<tr>
<td></td>
<td>inches</td>
<td>mm</td>
<td>inches mm</td>
<td>inches mm</td>
<td>inches mm</td>
</tr>
<tr>
<td>DBS-P 400</td>
<td>16</td>
<td>400</td>
<td>132 3350</td>
<td>91 2300</td>
<td>15 370</td>
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<tr>
<td>DBS-P 600</td>
<td>24</td>
<td>600</td>
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<td>91 2300</td>
<td>22 570</td>
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<td>31</td>
<td>800</td>
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<td>91 2300</td>
<td>30 770</td>
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<tr>
<td>DBS-P1000</td>
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<td>1000</td>
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<td>98 2500</td>
<td>38 970</td>
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<tr>
<td>DBS-P 1200</td>
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<td>1200</td>
<td>140 3550</td>
<td>98 2500</td>
<td>46 1170</td>
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<td>1400</td>
<td>140 3550</td>
<td>98 2500</td>
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<tr>
<td>DBS-P 1600</td>
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<td>1600</td>
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<td>1800</td>
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<td>2000</td>
<td>159 4050</td>
<td>118 3000</td>
<td>76 1940</td>
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STANDARD CONTROL & INSTRUMENTATION

DRYCAKE MICROLOGIX CONTROL PANEL

- Enclosure: NEMA 4X Stainless Steel
  Lockable
- Control power transformer
- Motor Starter with overload and thermal protection
  - Transport Screw Motor
- PLC: Allen Bradley Micrologix 1400 or equal
- HMI: Panelview C400
- Elapsed run time meters
  - Transport Screw
- Pushbuttons
  - E-Stop (Mushroom - manual reset)
  - Alarm reset
- Pilot Lights
  - Power On
  - Screen Running
  - Overload Shutdown
- High Water Level Alarm
- Embossed nameplates

Additional pushbuttons for components are present when supplied without local control station or on client request
DRYCAKE LOGO CONTROL PANEL

- Enclosure: NEMA 4X Stainless Steel or NEMA 4 FRP Lockable
- Control power transformer
- Motor Starter with overload and thermal protection
  - Transport Screw Motor
- PLC: Siemens Logo
- Elapsed run time meters
  - Transport Screw
- On-Auto-Off Selector Switches:
  - Transport Screw:
  - Compaction Washwater
  - Screen Zone Washwater
- Pushbuttons
  - E-Stop (Mushroom - manual reset)
  - Alarm reset
- Pilot Lights
  - Power On
  - Transport Screw Running
  - Overload Shutdown
- High Water Level Alarm
- Embossed nameplates

Additional pushbuttons for components are present when supplied without local control station or on client request
DRYCAKE LOCAL CONTROL STATION

- Enclosure: NEMA 7 Cast Aluminum Bolted
- Pushbuttons
  - E-Stop (Mushroom - manual reset)
  - MAN/OFF/AUTO Screen
  - FOR/OFF/REV Screen
  - Solenoid Valve Push Button

Additional pushbuttons for components are present when supplied on client request

INSTRUMENTATION

HydroRanger Ultrasonic

- Ultrasonic level sensor with analog input to PLC

Float Flygt ENM 10

- Mercury free float
INSTALLATION PHOTOS