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Knelson Concentrator Model
KC-CD12
Specification Sheet

Maximum Feed Capacity - 20 tonnes/hr Solids
Maximum Total Volumetric Throughput - 27m³/hr (120USgpm)
Feed Size - Maximum: 6mm; Recommended: 2mm
Feed Density - 0 - 75% Solids by weight
Max. Fluidization Water Pressure - 550kPa (80psi)
Minimum Air Flow Required (Auto Piping Only) - 5.1m³/hr (3ft³/min) @ 600kPa (90psi)
Concentrator Installation Weight - 260kg (580lbs)
Motor - 1.5 - 3.8kW (2 - 5HP) - Electric

<table>
<thead>
<tr>
<th>Cone Style</th>
<th>Fluidization Water m³/hr (USgpm)</th>
<th>Concentrate Weight kg (lb)</th>
<th>G-Force Range G's</th>
</tr>
</thead>
<tbody>
<tr>
<td>G4</td>
<td>6 (25) - 9 (40)</td>
<td>5 (11) - 7 (14)</td>
<td>60</td>
</tr>
<tr>
<td>G5</td>
<td>3 (15) - 6 (25)</td>
<td>2.7 (6) - 3.4 (7.6)</td>
<td>60</td>
</tr>
<tr>
<td>G6</td>
<td>6 (25) - 10 (45)</td>
<td>5 (11) - 7 (14)</td>
<td>60 - 120</td>
</tr>
<tr>
<td>G7</td>
<td>3 (15) - 6 (25)</td>
<td>6 (13) - 9 (19)</td>
<td>60 - 150</td>
</tr>
</tbody>
</table>

Ø102mm [Ø4"] victaulic connection for tailings discharge @ 682mm [26 13/16"] elevation to discharge center, sloping down 10º

Ø76mm [Ø3"] victaulic connection for concentrate discharge @ 292mm [11 1/2"] elevation to discharge center, sloping down 15º

[3] Ø11mm [Ø7/16"] holes, 120º apart on a Ø1005mm [Ø39 9/16"] B.C.D. for M10 [3/8"] bolts

FLSmidth Knelson Integrated Control System (ICS)

Ø70mm [Ø2 3/4"] I.D. for suspended feed pipe

1112mm [43 13/16”] to feed tube
1035mm [40 3/4”] to feed tube
790mm [31 1/8”] to lid off height
508mm [20”]
038mm [Ø1 1/2”] victaulic connection for fluidization inlet

Note:
- Specifications subject to change without notice.
- All piping to concentrator to be flexible to allow for slight oscillation of unit during operation.
- Consult FLSmidth-Knelson for more detailed operating parameters for your specific application.