Water to be filtered is piped into and channeled around the periphery of the tank of the gravity strainer 4000 series. It flows upward and over a weir assembly for even distribution over a fine screen (75 to 355 micron or 40 to 200 mesh). The water is filtered leaving fibers and solids on the screen. Clean water is collected in the strainer's bottom and flows from the unit. A continually rotating shower above the screen washes the rejects toward the center opening and the reject pipe for discharge. The strainers are especially effective separating difficult fibrous material from process water streams.

**Overview**

**Features**
- High flow rates with relatively high solids loading
- Gravity feed capability can eliminate pumps
- Continuous media cleaning with rotating showers
- Rotating shower is only moving part
- Corrosion-free fiberglass or stainless steel construction

**Benefits**
- Lower cost per gallon processed
- Minimal power cost and low maintenance
- Maximum throughput, minimal downtime, high efficiency
- No fresh water requirements
- BTU savings by reuse of warm process water
Gravity Strainer 4000 Series - 1004 (US) 07/2019
Replaces All Previous Versions
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Gravity Strainer
Model
Flow Capacity
Range *
Nominal Diameter
Nominal Height**
Inlet/Reject Connection
Accept Connection
Gross Weight
Dry – Wet
Shower Flow at
40 psi ***
gpm lpm inch cm inch cm inch cm inch cm lbs kg gpm lpm
4015 163–1037 615–3925 73 185 69 176 8 20 12 30 975–7150 442–3243 90 341
4035 338–2153 1280–8150 97 245 75 190 12 30 16 40 1425–11050 646–5011 135 511
4045 511–3257 1935–12330 115 290 78 198 14 35 18 45 1760–16500 798–7483 162 613

* Capacity can vary depending on inlet loading and screen mesh.
** Height of support legs can vary to suit application.
*** Shower water is usually accept water from the gravity strainer supplied at 25 to 40 psig.

These figures are given only for information. For application specific details and recommendations, contact Kadant.

“Slip-On” Screen
The patented slip-on gravity strainer screen system is designed for rapid screen replacement for a wide range of gravity strainer applications.

- Rapid screen replacement in 15 minutes or less
- Inflatable seal designed for easy visual inspection
- No sieve assembly to remove or disassemble
- No shower arms to disconnect, no screws to turn

Inflatable gasket on ring and airline connection.