



HYDROSIZER™

Significantly lower in cost and footprint than a comparable screening facility, McLanahan Hydrosizers™ offer sharp classification in the range 100-800µm and may be fed material with a top-size of up to 5mm (4 mesh). Standardized control systems ensure tight control of the classification process and the ability to separate minerals by size, density or even shape according to the requirements of the application. Invaluable in the classification of construction and specialty sands, frac sand, aggregates, iron ore, phosphate, coal, mineral sands and other ore concentrates, a single McLanahan Hydrosizer™ will process up to 200mtph of a typical 2.7SG material.

Innovative Design for Continual Separation

McLanahan's Hydrosizer™ line comes with side removable teeter water pipes, eliminating the need for entry into a confined space when performing routine maintenance. The round Hydrosizer™ also features McLanahan's trademarked internal launder, which increases the upward current velocity as fines, or lights, ascend toward the overflow, keeping the classification zone unencumbered and better able to process the incoming material. This innovative geometry also makes for an extremely compact unit. A given internally-laundered Hydrosizer™ imposes just 75 percent of the footprint – capacity for capacity – of its conventional predecessor.

A Simple, Easy-to-Maintain Operation

Proportional-only loop control of density and – where required - PID control of upward current flow rate means that operators need only configure the required set points and walk away. McLanahan's control algorithms, whether self-contained or embodied within the wider control of a process, actively supervise the classification environment to ensure robust performance and consistent product characteristics. There are no screen cloths to maintain, compensation for variable feed rate or characteristic is inherent, and the only moving part is the low maintenance underflow valve. Servicing operations may be completed quickly and easily by just one person.

Engineered for Maximum Efficiency

The McLanahan Hydrosizer's™ circular section means an equidistant entry and exit path for the overflow fraction and “dead areas” associated with square Hydrosizers™ are eliminated. Our linear CV “dart” style underflow valve accepts a range of trim profiles, providing hydraulic stability and perfect valve capacity every time. The valve's internals are easily serviced in place without resorting to lifting tackle and without disturbing any process pipe-work. The intelligent I/P positioner even provides an electronic outward indication of internal condition.

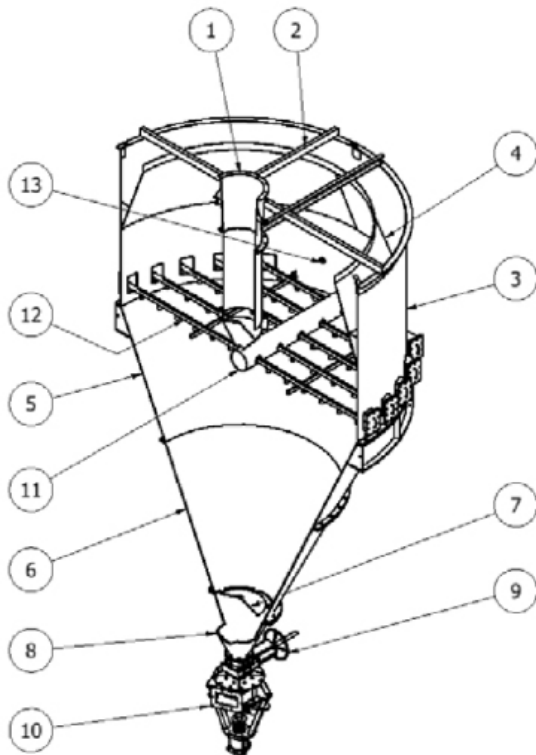


Side removable teeter water pipes eliminate the need for entry into confined spaces to perform routine maintenance



Linear CV “dart” style underflow valve provides hydraulic stability and perfect valve capacity

Hydrosizer™ Cutaway View



Item	Description
1	Feed Well
2	Feed Well Support Frame
3	Cylinder (Nominal Dia')
4	Overflow Launder
5	Upper Conical (Nominal Dia')
6	Conical (Nominal or 2.5m Dia')
7	Anti Rat-Hole Baffle Plate
8	Lower Conical
9	Optional Knife Gate Valve
10	Underflow Control Valve
11	Water Injection Manifold
12	Water Injection Array
13	Density Transmitter

