EAGLE IRON WORKS
A McLanahan Company

CLASSIFYING TANKS

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EIW Sand Classifying Tanks are used for any of the following individual functions or combination:

1) Removing or scalping excess water from a dilute slurry feed

2) Classifying a typical 2.6 to 2.7 SG material by removal of excess of certain intermediate mesh sizes

3) Retaining finer mesh sizes

4) Making multiple products from a single feed material for most all construction sand specifications

They are effective, low maintenance units that with either a slurry or a dry feed handle sand gradation swings in the average deposit or in a manufactured crushed sand, while minimizing waste.

Sand classification is based on the different settling rates of various grain sizes. As water and material enter the feed end, coarser grains settle first, and finer grains settle in successive sizes down (or along) the length of the tank. At the top of the tank, a series of hydraulic control mechanisms operate the discharge valves at the bottom of the tank. Depending on the type of control system and product produced, one, two, three or four discharge valves are located at each station.

The Eagle Sand Classifying Tank has a large settling area which makes it easier to retain fine mesh particles and produce secondary and tertiary products such as masonry/mortar, asphalt, golf and other specialty sands.

DESIGN FEATURES

Tub Construction
- Extra-long weirs for maximum product retention
- Adjustable weirs for out of level conditions

Classifying Tank Stations
- Heavy-duty, double acting hydraulic cylinders for accurate valve discharging
- Valve and paddle rods feature thick diameter steel
- Individual components simplify troubleshooting and minimize maintenance costs

Hydraulic Power Unit
- Robust hydraulic power unit with long service life

Collecting-Blending Flume
- Designed to prohibit product contamination in high tonnage situations
- Flume assemblies are standard with abrasion-resistant metal liners

Stationary Units & Capacities				
	Tank Size (Length x Width)	Maximum Gallons Per Minute Of Slurry At Low Silt Content Allowable In Saving Fine Sand Retained On:		
		100 Mesh	150 Mesh	200 Mesh
Single Tank	20' x 8'	2,300	1,200	700
	24' x 8'	2,800	1,400	800
	28' x 8'	3,200	1,600	900
	32' x 8'	3,500	1,800	950
	24' x 10'	3,500	1,800	950
	28' x 10'	4,100	2,100	1,100
	32' x 10'	4,700	2,400	1,250
	36' x 10'	5,300	2,700	1,400
	40' x 10'	5,900	3,000	1,550
	48' x 12'	8,100	4,200	2,150
Dual Tank	32' x 10'	9,400	4,800	2,500
	36' x 10'	10,600	5,400	2,800
	40' x 10'	11,800	6,000	3,100
	48' x 12'	16,200	8,400	4,300

More than 250 TPH = 8' Wide Tank
More than 350 TPH = 10' Wide Tank
More than 450 TPH = 12' Wide Tank

Classifying Tank General Terms

Eight Station, Three Cell (Three Product)