Sigma Ekipman Tedarik ve Mühendislik.A.Ş.
Ataturk Mah. Namık kemalbey cad no:17 34758 Atasehir | Istanbul |
Turkiye Tic.Sic.No : 545961 Vergi No: 770 042 29 66 / Kozyatağı Vergi
Dairesi T: +90 216 4552179 | F: +90 2164552379
visit us @ www.sigma-process.com

Paddle Screen FQ – PS32

1.1 Design Features

FQ-PS32 paddle screens are high capacity de-watering devices, designed to operate at various speeds and with varying loads. Used in wet corn milling for liquid-solids separation and for refining of solids by particle size, paddle screens offer an alternative to pressure screens for fiber washing, fiber de-watering, and germ washing. All components in contact with the process material are stainless steel.

The FQ-PS32 paddle screen consists of a stainless steel cabinet enclosing a cylindrical separating screen within which four paddle blades rotate. Slurry pumped or gravity fed through the feed inlet is pressed against screen by rotating paddles. Solids larger than screen openings are retained on screen surface while excess water and finer particles pass through screen. Larger retained solids are scraped off screen surface by rakes and move through cylinder to discharge port.

Various screen openings are available depending on particular applications. Fluid-Quip can assist customers in determining configuration of screen sizes and openings that best fill their production requirements.

1.2 1.2 Standard Features

- All components in contact with process material are 316 stainless steel

- Multiple screen opening sizes are available for different applications

- Internal rake clearances, number of rakes, and machine speed are adjustable to accommodate wide range of process requirements

- Large inlet and discharge chutes prevent plugging

- Internal screen, cage and other components can be configured to be interchangeable with existing paddle style de-watering screen installations

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1.3 Specifications

Construction 316 Stainless Steel (all parts in contact with process material) Carbon Steel Frame

Feed Inlet DIN150 PN10 flange

Solids Discharge Outlet DIN200 PN10 flange

Liquid Discharge Outlet DIN200 PN10-flange

Weight ~1500 lbs (680 kg) empty ~2600 lbs (1179 kg) full

Dimensions (approx.) ~238.8cm L x ~76.8cm W x 138.8cm H ~94” L x ~30¼” W x 54 5 / 8 ” H

Screen Opening As per customer request

Motor (not supplied) Motor support for 75hp motor

Operating Speed 950 rpm maximum 930 rpm nominal (925 – 940 rpm, varies with power supply and sheave sizes)