

Alfa Laval AS-H Belt Press G3 3-Belt

Sludge thickening and dewatering machine

Introduction

The Alfa Laval AS-H Belt Press G3 3-Belt with independent gravity deck is considered the industry standard for superior value, performance and durability for sludge dewatering. The G3 3-Belt is designed for low polymer consumption, high throughput rates, and high solids content and is available in a wide size range and extensive modular options to meet individual process requirements.

Application

The Alfa Laval AS-H Belt Press G3 is a sludge dewatering machine suitable for all municipal wastewater sludge types and a wide variety of industrial solid / liquid separation applications, such as paper, petrochemical, mineral, food processing, pharmaceutical and chemical. The G3 belt press incorporates variable energy mixing, flocculation, gravity drainage and pressure filtration within a single mechanical framework. The G3 belt press offers the versatility of a wide size range and extensive modular options to meet individual process requirements.

Benefits

- Thorough uniform mixing of polymer into sludge
- Higher volumetric throughput and solids loading
- Higher cake dry solids
- Low power consumption
- Low polymer usage
- Better filtrate quality
- Low maintenance requirements
- Long life design
- Modular design allows upgrades to add more rollers in the pressure zone or an extended gravity zone

Features

- Available in 8 roller and 12 roller designs in the pressure section
- Extended gravity deck model for thinner sludges
- Open frame design allows for maximum access for normal maintenance
- Enclosed design available ensures any odours, aerosols and spillages are contained
- Adjustable wedge dewatering zone for process optimization
- Pre-installed hydraulic system for automatic belt tensioning and steering

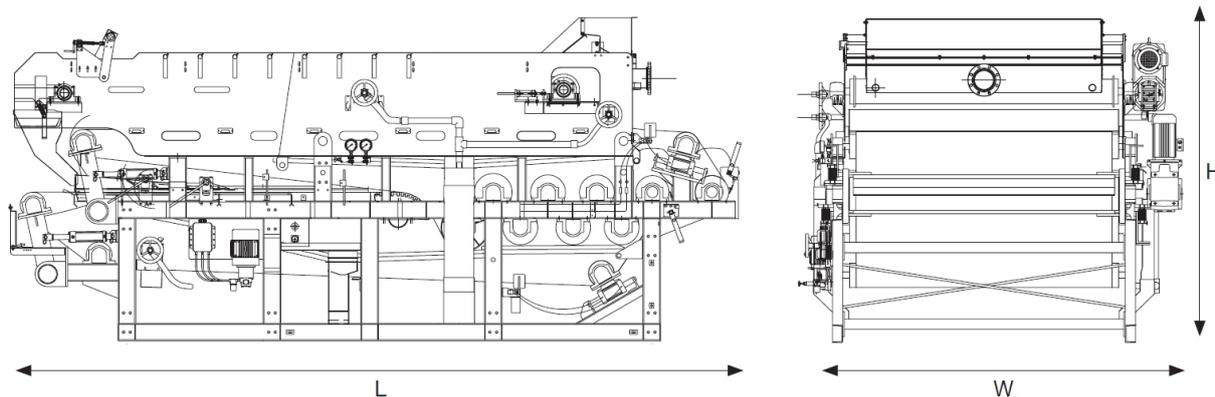


- Lifetime rated bearings
- Radial grid and perforated roller to accelerate dewatering

Working principle

Its operating principle is to condition the feed sludge with a polyelectrolyte and drain the flocculated sludge over an endless, horizontal porous filter belt. The thickened sludge is then sandwiched by a second filter belt before further dewatering by a series of decreasing diameter rollers. Final moisture removal is achieved by shear rollers arranged to give minimum 180 degree belt wrap in order to optimize dewatering.

Dimensions



8 roller version

Model	Length		Width		Height	
	mm	inches	mm	inches	mm	inches
3-Belt Press 100	6,244	246	2,077	82	2,784	110
3-Belt Press 150	6,244	246	2,585	102	2,784	110
3-Belt Press 200	6,244	246	3,094	122	2,784	110
3-Belt Press 250	6,244	246	3,650	144	2,784	110

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