

Palin® Sludge Consolidator

Vertical Dissolved Air Flotation (DAF)



Palin® Sludge Consolidator

Also known in the industry as a Vertical DAF (Vertical Dissolved Air Flotation) system, the ALSI Palin® Sludge Consolidator is an automated and continuous industrial sludge collection, consolidation, and removal system used in industrial processing plants that produce wastewater containing various contaminants like paints, oils, greases, waxes, and proteins/fats.

Specifically engineered for challenging industrial sludges, this vertical DAF-style solution reduces disposal and operational costs by removing water from sludge and returning clean water back to the process.

Benefits



Lower Cost of Chemistry Programs

Reduced need for coagulants and flocculants



Enhanced Flotation Efficiency

Upward flow ensures longer contact between bubbles and particles with MASC-on®2.0 Aeration.



Smaller System Footprint

Vertical flow allows for a more compact design



Higher Loading Rates

Can handle higher solids loading with less area required



Simplicity of Use with a Low Maintenance Design

A self-contained design, integrated with an automated scraper and few moving parts

Applications

Automotive & Metal Industries

- Wastewater in vehicle manufacturing
- Metal finishing and plating
- Coating industry with wet spray booths

Coatings Industry

- Cabinet & furniture manufacturing
- Paver brick manufacturing

Food & Beverage Processing

- Poultry processing wastewater
- General food & beverage wastewater treatment

Petrochemical & Oil/Gas

- Oil-water separation in petrochemical plants

Pulp & Paper Industry

- Pulp & paper wastewater treatment

Wastewater & Sludge Management

- Sludge thickening prior to dewatering

Air and Liquid Systems, LLC.

1680 S Livernois • Rochester Hills, Michigan 48307 • USA



(248)-656-3610



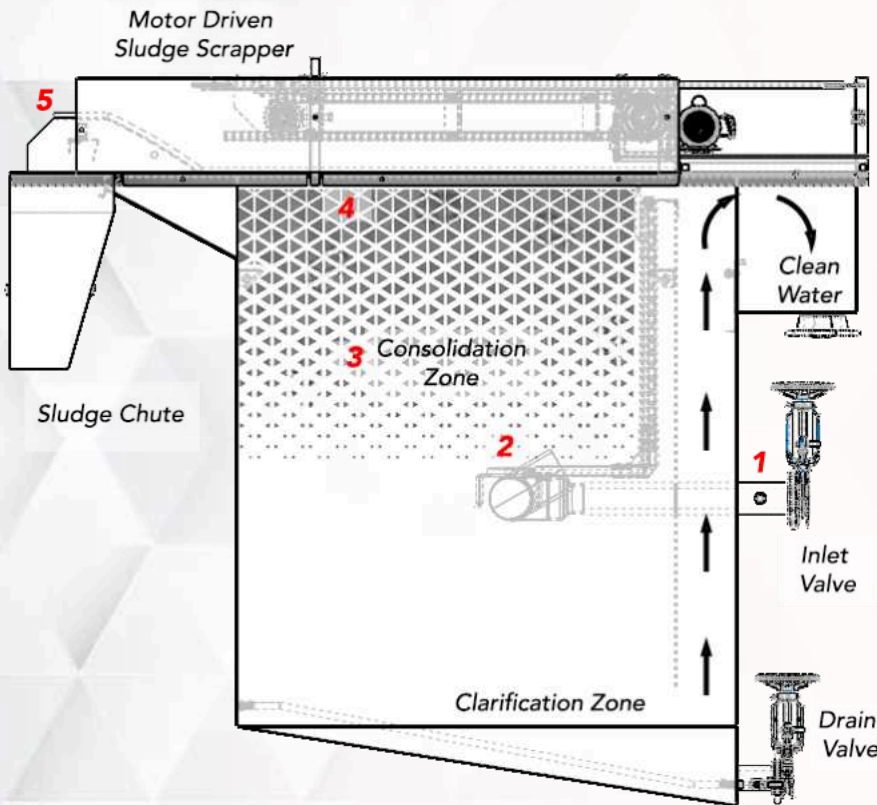
www.airliquidsystems.com



info@airliquidsystems.com

ALS-1003A (07/25)

Sideview Snapshot: A Palin® in Action



How It Works

1. Collection

- Sludge-laden water from the recirculation tank is fed continuously into the Palin® Sludge Consolidator

2. Air Injection

- The MASCon® micro-aeration system introduces fine air bubbles that promote solids flotation, similar to dissolved air flotation

3. Particle Separation

- Air bubbles attach to impurities and other suspended particles, lifting them to the surface for easier removal

4. Sludge Formation

- Floating particles coagulate into a sludge mat on the surface of the water

5. Removal & Dewatering

- The sludge mat is scraped off and directed into a dewatering system, such as a sludge bag or dryer, for final handling

Companies Using Our Custom Solutions



JOHN DEERE



Batesville



Scan here for more
information on our Palin®
Sludge Consolidator
(Vertical DAF)

ALSI Products are protected under multiple U.S. and foreign patents and trademarks.
For details contactt ALSI.

ALSI®, PALIN®, and MASC-on® 2.0 are trademarks of ALSI Corporation