



ALSYS 20 and 30

Plug-and-play dewatering modules



ALSYS 20 and 30 are plug-and-play solutions for reducing sludge volumes at municipal, industrial and potable water treatment plants.

ALSYS 20 and 30 feature

- factory-assembled dewatering modules in the capacity range of 2-17 m³/h (9-75 GPM)
- plug-and-play design that allows rapid, easy installation on site
- compact layout that reduces floor space requirements and ensures easy maintenance
- automatic operation that eliminates need for continuous attendance
- pre-tested modules with rapid commissioning by Alfa Laval field service.

Self-contained system

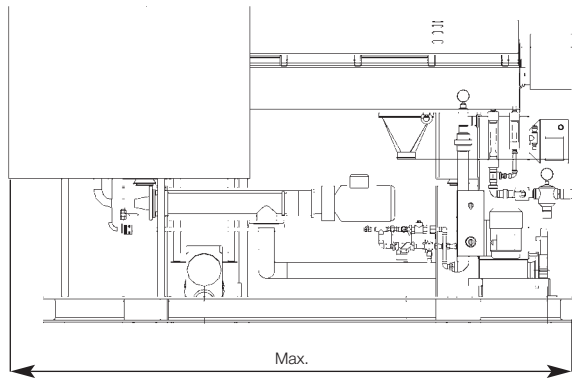
The Alfa Laval ALSYS 20 and 30 are based on the ALDEC 20 and 30 decanter centrifuges. Each module is a self-contained system that includes all the equipment required for on-site dewatering duties, including a progressing cavity feed pump, flow meter, polymer make-up unit and all the necessary piping

and valves, along with a screw conveyor for the dewatered sludge. A central control panel ensures trouble-free operation with built-in safety.

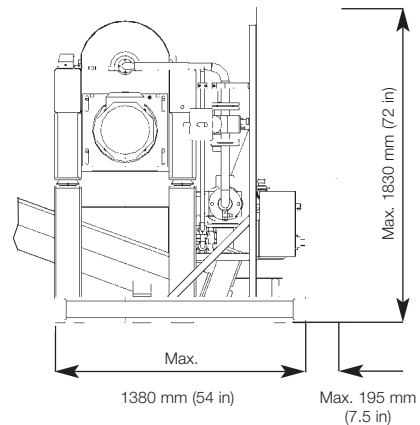
Versatile solution for many sludge types

ALSYS 20 and 30 modules are designed for use in dewatering many of the sludge types commonly encountered in conjunction with industrial applications and small municipal wastewater treatment plants. ALSYS 20 and 30 are compact, reliable and efficient.

Dimensions

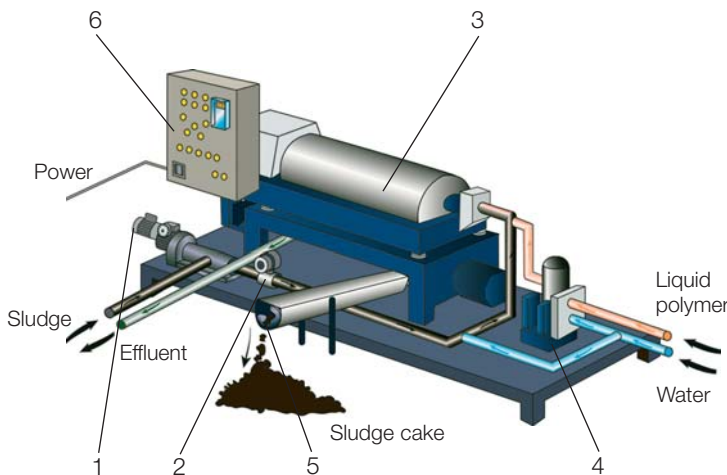


ALSYS 20 3150 mm (123,5 in)
ALSYS 30 2870 mm (112,5 in)



1380 mm (54 in) Max. 1830 mm (72 in)
Max. 195 mm (7.5 in)

Technical data	ALSYS 20	ALSYS 30
Typical sludge dewatering capacity	5 m ³ /h	10 m ³ /h
Solids concentration	Max. 5% DS	Max. 5% DS
Typical cake dryness	Up to 35% DS (depending on sludge type and conditions)	
Decanter type	ALDEC 20	ALDEC 30
Feed pump capacity range	2 - 15 m ³ /h (9 - 66 GPM)	3 - 17 m ³ /h (13 - 75 GPM)
Polymer unit capacity range	3 kg (11 lbs) polymer/h	3 kg (11 lbs) polymer/h
Polymer type	Liquid	Liquid
Conveyor type	Shaftless Conveyor - AISI 304 stainless steel	
Total installed module power	25 kW (34 HP)	27 kW (37 HP)
Max. weight	2150 kg (4740 lbs)	2250 kg (4960 lbs)
Piping material	AISI 304 stainless steel	AISI 304 stainless steel
Valve material	Brass	Brass
Control and starter panel	Mounted on module or separately	



Operating principles

The progressing cavity feed pump (1) feeds the sludge via an electromagnetic flow meter (2) into the ALDEC decanter centrifuge (3). The pump is driven by a variable frequency drive to permit adjustment of dewatering capacity. Polymer prepared in the Poly dosing system (4) is simultaneously fed into the decanter bowl to aid flocculation of the sludge. Instantaneous sludge sedimentation takes place in the decanter centrifuge due to the effects of high centrifugal force. An external screw conveyor (5) then transfers the sludge cake to the cake collection point, and the clarified liquid is discharged by a pipe at the bottom of the module. A combined control/starter panel (6) is used to start/stop all the equipment in the complete module and to control them while in operation.

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Alfa Laval reserves the right to change specifications without prior notification.

How to contact Alfa Laval

Up-to-date Alfa Laval contact details for all countries are always available on our website at www.alfalaval.com