

Technical specification



Decanter

Project ref:

Line ref:

Model: **ALDEC 75**

Item id: **4099891532**

No of units: **1**

Process

Application description: IW - waste water
Process description: MUE, Biological sludge dewatering
Max. density of compact wet cake: 1.2kg/dm³ @ max. 3800rpm

Bowl

Maximum main speed: 3800.0 rpm
Centrifugal force at maximum main speed: 3558G
Maximum process temperature: 60.0 °C
Operating main speed: 3800 rpm

Bowl diameter: 440.0 mm
Cone angle: 10°

Outlet design: 2 phases - open
Liquid outlet, type: Standard plate dams 5
Solids discharge type: 360° type with 8 openings
Solids discharge - wear protection: Wear liners in Tungsten Carbide, 8 pieces

Material - hubs: AL 111 2377 (Duplex stainless steel)
Material - bowl shell: AL 111 2377 (Duplex stainless steel)
Material - bolts: AL 111 2349 (AISI 316)

Conveyor

Feed zone type: Esbjerg, 3-port with exchangeable wear liners (EU)
Feed zone - wear protection: tungsten carbide wear liners
Flights - pitch: Variable pitch basis 160 mm
Flights wear protection - small end: TM42
Flights wear protection - large end: None

Material - flights: AL 111 2349 (AISI 316)
Material - hub: AL 111 2349 (AISI 316)

Frame and casing

Cover - material: AL 111 2349 (AISI 316)
Cover - hinges: Cover with left hand hinges
Frame - product wetted surface: AISI 316 Liner - painted in neutral compartment
Frame - material: mild steel
Frame paint/colour: Blue

Additional: Wear liner for solids discharge, AL 111 2349 (AISI 316)

Drives

Gearbox, type: Planetary - 2 stage
Gearbox, torque rating: 4.5 kNm
Back drive: Variable Frequency Drive 11 kW IEC (3x400V 50 Hz)
(Back drive motor ABB, 3x400V, 3000rpm, 50 Hz, IEC, 160, part no. 61195733-50)
Motor power supply: 3x400V / 50 Hz

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Main drive motor: 37 kW ABB Y/D-VFD (225) Foot

Main drive motor, protection: IP55

Control system

Controller type: None

Miscellaneous

Product wetted seals & gaskets: NBR - Non food

Main bearings - lubrication: LGHP 2, SKF, Standard, non food

Gearbox lubrication: Mereta 320, Fuchs

Conveyer bearings - lubrication: FGCS-2, ANDEROL, Food grade