

Technical specification



Decanter

Project ref:

Line ref:

Model: Item

ALDEC 45

id:

4099891532

No of units:

1

Page: 9(2)

Date: 20-05-2019

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: Material

AL 111 2377 (Duplex stainless steel)

- 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

Main drive motor:

Control system

Main drive motor, protection:

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Controller type:

37 kW ABB Y/D-VFD (225) Foot
IP55

Miscellaneous

Product wetted seals & gaskets:

Main bearings - lubrication:

Gearbox lubrication:

Conveyer bearings - lubrication:

None

NBR - Non food

LGHP 2, SKF, Standard, non food

Mereta 320, Fuchs

FGCS-2, ANDEROL, Food grade