

Technical specification



Decanter

Project ref:

Line ref:

Model: Item

ALDEC 10

id:

n/a

No of units:

1

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Date: 20-05-2019

Process

Application description:

IW - waste water

Process description:

MUE, Biological sludge dewatering

Max. density of compact wet cake:

3.0kg/dm³ @ max. 5300rpm

Bowl

Maximum main speed:

5300.0 rpm

Centrifugal force at maximum main speed:

3146G

Maximum process temperature:

60.0 °C

Operating main speed:

5300 rpm

Bowl diameter:

200.0 mm

Cone angle:

10°

Outlet design:

2 phases - open

Liquid outlet, type:

Standard plate dams 4

Solids discharge type:

360° type with 6 openings Solids

discharge - wear protection:

Wear liners in Stellite, 6 pieces

Material - hubs:

AL 111 2349 (AISI 316)

Material - bowl shell: Material

AL 111 2349 (AISI 316)

- bolts:

AL 111 2349 (AISI 316)

Conveyor

Feed zone type:

Esbjerg without exchangeable wear liners

Feed zone - wear protection:

flame sprayed tungsten carbide

Flights - pitch:

1x90

Flights wear protection - small end:

mm

Flights wear protection - large end:

TM42

Material - flights:

TM42

Material - hub:

AL 111 2349 (AISI 316)

AL 111 2349 (AISI 316)

Frame and casing

Cover - material:

Cover - hinges:

AL 111 2349 (AISI 316)

Frame - product wetted surface:

Cover without hinges

Frame - material:

AISI 316 Liner - painted in neutral compartment

Frame paint/colour:

mild steel

Blue

Drives

Gearbox, type:

Planetary - 2 stage

Gearbox, torque rating:

0.4 kNm

Back drive:

Variable Frequency Drive 3 kW IEC (3x400V 50 Hz)(Back drive motor, 3.3kW, 400VD/460VD, 5170rpm, 87Hz, part No. 61195700-50, Connect motor in Delta)

Motor power supply:

3x400V / 50 Hz

Main drive motor:

7.5 KW ABB Y/D-VFD (132) Flange

Main drive motor, protection:

IP55

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Control system

Controller type:

None

Miscellaneous

Product wetted seals & gaskets:

NBR - Non food

Main bearings - lubrication: Gearbox
lubrication:

LGHP 2, SKF, Standard, non food
Mereta 320, Fuchs

Conveyer bearings - lubrication:

LGHP 2, SKF, Standard, non food