## **Technical specification**

## Decanter

Project ref: Line ref:

Model: Item ALDEC 10

id: n/a Page: 1(2)
No of units: 1 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: TM43

Flights wear protection - large end: TM42
TM42

Material - flights:

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 neutrual compartment

Frame paint/colour: mild steel Blue

**Drives** 

Gearbox, type:

Motor power supply:

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)

3x400V / 50 Hz

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

Main drive motor:
Main drive motor, protection:

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Page: 2(2) No of units: Date: 20-05-2019 1

**Control system** 

Controller type: None

**Miscellaneous** 

Product wetted seals & gaskets: Main bearings - lubrication: Gearbox

lubrication:

Conveyer bearings - lubrication:

NBR - Non food

LGHP 2, SKF, Standard, non food

Mereta 320, Fuchs

LGHP 2, SKF, Standard, non food