

# Technical specification



## Decanter

Project ref:

Line ref:

Model: Item

**ALDEC 20**

id:

**4099891526**

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/dm<sup>3</sup> @ max. 4400rpm

## Bowl

Maximum main speed:

4400.0 rpm

Centrifugal force at maximum main speed:

3036G

Maximum process temperature:

60.0 °C

Operating main speed:

4400 rpm

Bowl diameter:

280.0 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 Tungsten Carbide, 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:

1x125 mm

Flights wear protection - small end:

TM42

Flights wear protection - large end:

TM42

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:

1.5 kNm

Back drive:

Variable Frequency Drive 7.5 KW IEC (3x400V 50 Hz) (Back drive motor ABB, 3x400V, 3000rpm, 50 Hz, IEC 132 part no. 61195732-00)

Motor power supply:

3x400V / 50 Hz

Main drive motor:

## Control system

Main drive motor, protection:

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# Technical specification



## Decanter

Project ref:

Line ref:

Model: Item

**ALDEC 20**

id:

**4099891524**

No of units:

**1**

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Date: 20-05-2019

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Controller type:

11 kW ABB Y/D-VFD (160) Flange  
IP55

## Miscellaneous

Product wetted seals & gaskets:

Main bearings - lubrication: Gearbox  
lubrication:

None

Conveyer bearings - lubrication:

NBR - Non food  
LGHP 2, SKF, Standard, non food  
Mereta 320, Fuchs  
LGHP 2, SKF, Standard, non food