Technical specification

Decanter

Customer:
Project ref:
Line ref:
Model: **ALDEC 85**
Item id: **n/a**
No of units: **1**

Date: 09-02-2022

Process

Application description:	IW - waste water
Process description:	MUE, Biological sludge dewatering
Max. density of compact wet cake:	1.2kg/dm³ @ max. 3600rpm

Bowl

Maximum main speed:	3600.0 rpm
Centrifugal force at maximum main speed:	3629G
Maximum process temperature:	60.0 °C
Operating main speed:	3600 rpm
Bowl diameter:	500.0 mm
Cone angle:	10°
Outlet design:	2 phases - open
Liquid outlet, type:	Standard plate dams 6
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 180 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
Additionals:	Wear liner for solids discharge, AL 111 2349 (AISI 316)

Drives

Gearbox, type:	DD - 2 stage
Gearbox, torque rating:	8.0 kNm
Back drive:	Variable Frequency Drive 22 kW IEC (3x400V 50 Hz) (Back drive motor ABB, 3x400V, 1500rpm, 50 Hz, IEC, 180, part no. 8010010969)
Motor power supply:	3x400V / 50 Hz

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Main drive motor:	45 kW ABB Y/D-VFD (225) Foot (Part No. 8010010971)
Main drive motor, protection:	IP55

Control system

Controller type:	Basic

Miscellaneous

Product wetted seals & gaskets:	NBR - Non food
Main bearings - lubrication:	LGHP 2, SKF, Standard, non food
Gearbox lubrication:	Mereta 320
Conveyer bearings - lubrication:	FGCS-2, ANDEROL, Food grade

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