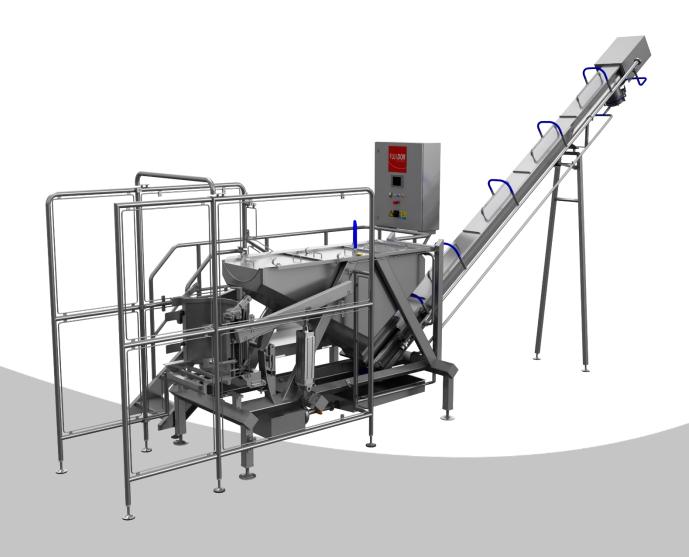


MACHINE SPECIFICATION

DRUM DUMPER DAPS SPECIAL



Machine name	DAPS-Special	Manufacturer	Fluidor Equipment B.V.
Publication date	20-02-2024	Address	Ramgatseweg 25, 4941VN Raamsdonksveer, The Netherlands
Version	0.1	Telephone	+31(0)162 581 450

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DESCRIPTION

The Drum dumper (DAPS Special) is designed for an efficient emptying of 200 liter open top drums containing liquid products like fruit juice with fruit pieces This machine is developed especially for the production of "RANI"-products. Drums are placed on the roller conveyor section, at (optional) Drum Opening Station lid will be removed and liner(s) will be opened. The drum is lifted and tipped pneumatically, product will fall into the collecting hopper, flows into the hopper and is fed to a screw conveyor for separation of the fruit pieces (pulp) and the fruit juice.

The fruit pieces are discharged from the top of the screw conveyor for next process steps, the fruit juice is collected and pumped by a centrifugal pump to the next process step. After production CIP covers can be placed for integration into the customers CIP process.

DESIGN SPECIFICATION

- According actual CE-regulations
- Developed and build according quality system ISO 9001
- Clean design according actual EN1672-2 and HACCP-regulations
- Food contact materials according EC 1935/2004 and FDA
- Good Manufacturing Practice Regulation (EC) 2023/2006
- · Components according Fluidor standard components list
- Machine prepared for integration into existing C.I.P.-system (CIP covers included)
- · Machine control by HMI
- · Control cabinet IP55 / NEMA 12 (VX25....,various sizes, AISI 304)
- · Module for remote internet access
- Construction parts AISI304
- Product contact materials (hopper + piping parts) AISI 316
- · Hygienic stainless steel hopper with integrated level detection
- Screw conveyor for separation of fruit pieces (pulp).
- · Operator platform along right hand side of the machine
- · Pneumatic loading an tilting device with pneumatic actuated clamping device, aluminum cylinders in a Clean design
- Frequency controlled twin screw product pump with seal flush and pressure relief valve set on 12 bar
- Pressure transmitter behind the pump
- Height roller conveyor system 860 mm
- · CIP supply can optionally be supplied with a mix-proof valve.
- Machine is designed to be used 12 hours a day 5 days a week and 52weeks a year with proper maintenance and an expected service life of 20 years





REQUIREMENTS

Layout (dimensional, utility & requirements drawing) available upon request

Earthquake area extra fixation needed (Anchors option)

Machine is designed for indoor use in a medium hygiene wet area

TECHNICAL DATA EU USA

Total weight empty : 2500 kg 5510 lbs
Total weight Full : 3000 kg 6610 lbs

Product / CIP temp : -20, +90 °C max 60 minutes -4, 194 °F max 60 minutes

Ambient temperature : 5 - 25 °C 41 - 77 °F

Relative humidity : 30 - 70%
 Noise level : < 85 dB(A)
 IP value (control cabinets + drives) : IP55

Product hopper volume
Adjustable machine support legs
B0 -160 mm
Dimensions h*w*d:
132 gal
3.15 - 6.3 inch
2400*1850*4250 mm
94*73*167 inch
Installed power
7 kW
9,5 HP

CAPACITY

Depending on drum infeed & product: up to 4 m³/h (600 kg/m³) fruit pieces per hour.

Pump capacity 4 - 15 m³ product per hour (17 - 66 gpm)

Pump capacity 30 m³ CIP liquid per hour (132 gpm)

· Pump pressure max. 3 bar (43 psi)

PRODUCT INFORMATION

Product type : Fruit juices with pieces
 Product viscosity max. : Dynamic viscosity 1000 cP

CLEANING

Cleaning depends on the product and company guidelines, the values below are guide values

· CIP cleaning after each production batch or before each production run after 12 hours of downtime

Manual cleaning +- 20 min

CIP Time (sec)

CIP Step	Caustic	Caustic + Acid	Temperature (°C)	Concentration (%)
Pre Rinse	600	600	45	fresh water
Caustic (Organic soils)	1200	1200	75	0,5 - 2 % (Caustic soda)
Intermediate Rinse		600	20	fresh water
Acid (Inorganic soils)		600	65	0,5 - 1% (Acid)
Final Rinse	600	600	20	fresh water
Total CIP time (min)	40	60		

BIN AND DRUM SPECIFICATION EU USA

Dimensions drums: Width: Ø480 to Ø630 mm 19.0" to 24.8" inches

Height: 810 to 1000 mm 31.8" to 39.4" inches

Max weight drum: 300 kg 775 Lbs



MACHINE EXECUTIONS

- One standard execution

POWER SUPPLY / CONTROLES

- · 3 Phase 400V 50Hz 20 A+ neutral + earth, Siemens controls
- 3 Phase 480V 60Hz 15 A + earth, Allen-Bradley controls, UL prepared

COMMUNICATION

- · PROFINET connections pre- installed at Siemens controls
- Ethernet/IP connections pre- installed at Allen Bradley controls

OPTIONS

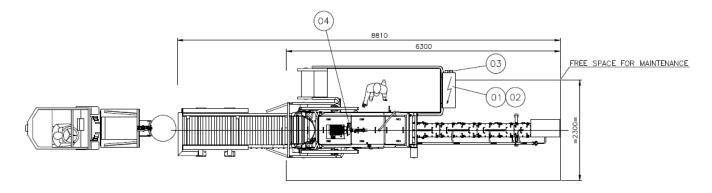
- · Water flow meter
- · Standing enclosure cabinets, IP66 / NEMA 4x (VX25, basic cabinet 800x2000x600, AISI 304)

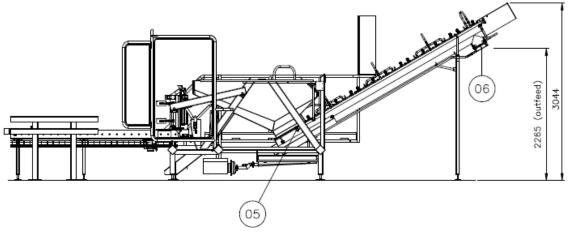


PROCESS OPTIONS

The DAPS Special can be combined with the following Fluidor conveyor systems: Drum opening station, Drum weighing system, Drum conveyor load/unload, forklift protection, Drum sliding door, Drum washer full or empty drums, Drum crusher etc.

PROJECT LAYOUT EXAMPLE





ANNEXED DOCUMENTS

- Machine Lay-out
- Machine P&ID
- · Fluidor standard components

GENERAL INFORMATION

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