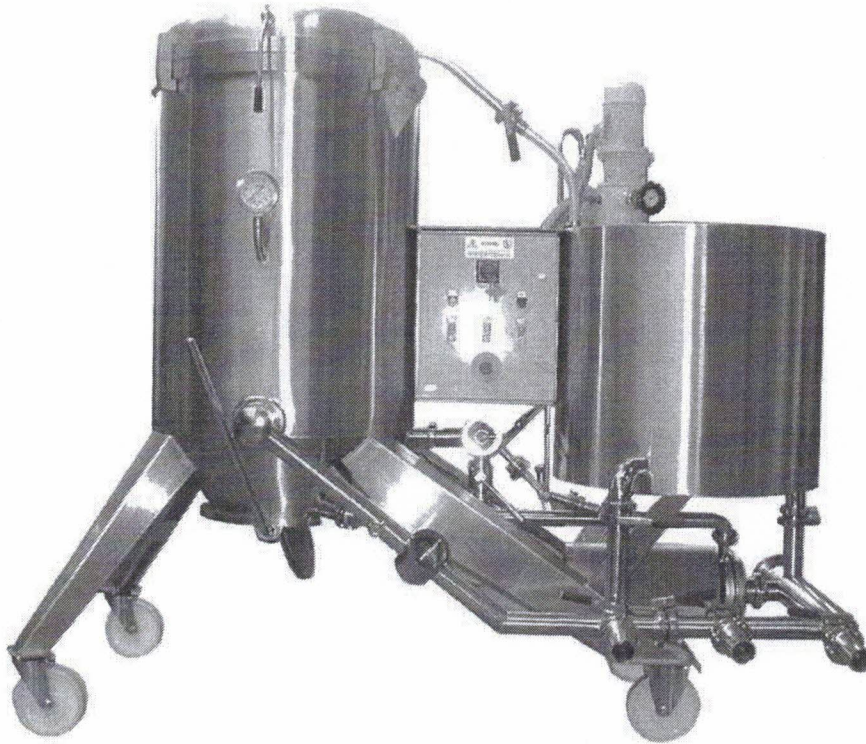




**Velo** S.p.A. • via Piave, 55 - 31030 ALTIVOLE - TREVISO - ITALY

## A.1) OFFER DESCRIPTION

### 1. VERTICAL SCREEN FILTER - mod. FVF 10 Beer execution



mod. FVF10 Beer execution - (pictures are indicative and the machines are liable of changes).

FVF filters are closed pressure filters with vertical screens proper for filtering with diatomaceous earth aid. They are endowed with automatic discharge of the cake whit vibrating device. The filter is a compact mono-block, on fixed and rotating wheels. Special beer execution (brushed internal weldings, no stagnant zones, D.E. dosing tank with convex bottom, sanitary manometer and sanitary pressure switch, silicon gaskets)

The standard version is constituted by:

#### **Filtering vessel**

Vertical cylindrical filtering vessel; whit pressure gauge and high pressure switch.

Elliptic top with flanged closing with rapid "C" clamps (coupler and bolts for the PED tested version) complete of safety overpressure valve and leak pipeline with valve.

Inferior trunk-conic bottom endowed with great diameter discharge butterfly valve.

Rectangular vertical screens with 130 µm drain mesh in AISI 316 (other meshes available on request), whit elevated mechanical resistance.

The vertical elements are built on a cave pipe manifold for the filtrate collection.

The vent on the filtering vessel is made at the highest point in order to avoid contact between air and beer. The vent pipe is in stainless steel with sight glass.

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#### **Filter aid dosing section**

The filter aids dosing is done through a big capacity mixing total drain tank whit flat bottom where is prepared the aids suspension, complete of a low revolutions gate agitator whit adjustable height.

The membrane dosing pump is with adjustable flow rate; it's complete of not-return valves with anti-usury spheres.

The dosing tank has a DIN fitting for the inlet of deaerated water and on the shell, 40 mm from the bottom, there is a DIN fitting for the installation of the carbonation stone (not included).

The dosing tank is provided with a safety pre-filter.

#### **Cake discharge and washing section**

The cake discharging is automatically through the vibration of the screens pack, thanks to a vibrator device installed on the filtrate manifold.

The filtering screens pack washing is through a mobile pipe with manual movement equipped whit high pressure nozzles.

#### **Feeding pump**

Special execution centrifugal feeding pump for High flow for a rapid formation of the precoat, complete of security pre-filter in AISI 304.

The feeding pump is of sanitary design and is provided with a sanitary fast detachable belt for opening the impeller.

#### **Piping and accessories**

In AISI 304, with sanitary connections DIN 11851, butterfly valves:

- 2 Inlet product valves
- 2 Outlet product valves
- 1 Flow rate regulation valve
- 2 valves at filter aid tank
- 1 total draining filter vessel
- 3 valves for washing puposes
- 2 sampling valve
- 1 Illuminated sightglass at inlet
- 1 Sightglass at outlet, with flowmeter

All valves are sanitary of "Südmö" brand.

Feeding flow regulation valve with shutter device (mod. Bardianni, modified by Velo).

Additional pressure gauge on the filtrate piping.

Sanitary sampling cocks Servinox. Brand installed on the sightglass of the discharge and on the lower part of the feeding pump block.

Pressurization device with interception valve.

Flow meter device on the piping.

#### **Electric board**

Plastic electric board, IEC IP55 standards, installed on the filter structure.

Complete of start/stop for the feeding pump, dosing pump, agitator and for the screen pack vibration system.

#### **Cake collecting device**

AISI 304 cart, with fixed and rotating wheels, complete with hauling bar.

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**TECHNICAL NOMINAL DATA – mod. FVF10 Beer Execution**

Nominal filtering surface	m <sup>2</sup>	10,4
Screens	n°	10
Max output	m <sup>3</sup> /hr	20
Max cake volume	m <sup>3</sup>	0,20
Filter aid tank	m <sup>3</sup>	0,205
Total installed power	kW	8,3
<i>feeding pump</i>	kW	7,5
<i>dosing pump</i>	kW	0,55
<i>vibrator</i>	kW	0,26
Max working pressure of filter		
<i>Standard version</i>	bar	8,0
Inlet / Outlet connections	DN DIN 11851	50
<b>Overall dimensions</b>		
<i>Length</i>	mm	2 200
<i>Width</i>	mm	1 200
<i>Height</i>	mm	2 200
<i>Empty weight</i>	kg	580

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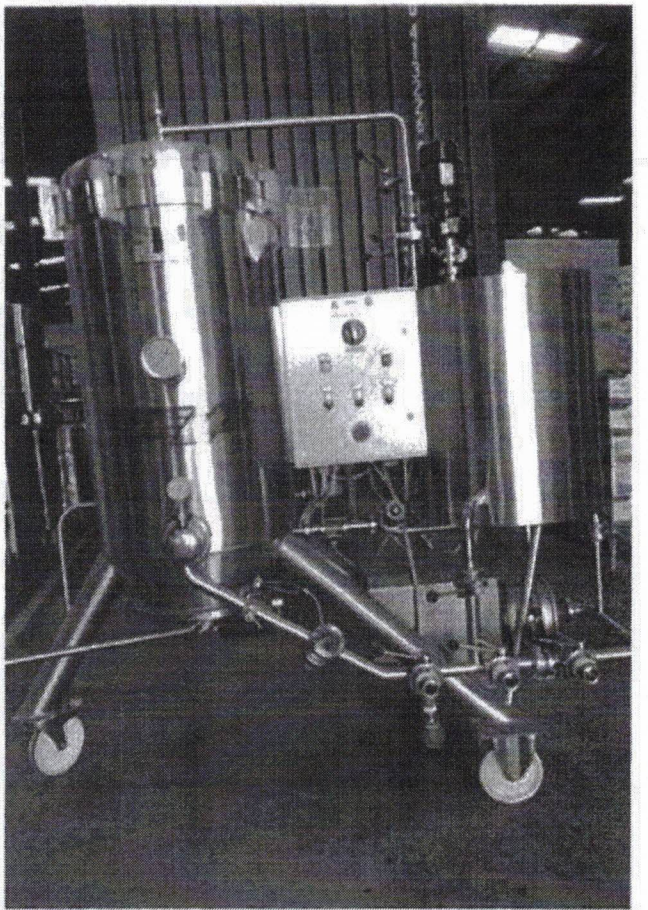
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**OLM** Modella (MO) - Italy  
 www.olmgroup.com

**MVE** 300/3      Fc: 321      Fc: 708  
 Kg      Lb

**V** 220-240/380-415      Hz 50      ph 5

**A** 0.98/0.52      cos φ 0.84      kW 0.27      Hp 0.36

**RPM** 3000      Ia/In 5.60      μF      Code 7

**Year/Serial** 0 10K454      SIZE 30      Duty 51 Cl F  
 Ta 40° C

**Ex**      IIC 30      CLASS II DIV2 GROUP F G Ta  
 EExd IIC T4 IP65      COND 10 U, 14 U, 15 U, 16 U  
 K TOV U5 ATEX 21031      CERT CSA C22 2240      IEC 60079-0  
 IECEx 11.0001      IECEx 11.0001      IECEx 11.0001      IECEx 11.0001

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 \*Peut être branché sur le site. Ne pas ouvrir si l'alimentation est branchée.

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