



One 75TF

High Pressure Homogenizer Technical datasheet

The One series homogenizers, compliant to EU safety rules (CE standards) and built according to EN ISO 9001:2008 Quality System, are the best fit for dairy, food & beverage applications.

Liquid end

- Engineered with a reduced number of parts for simplified use and maintenance
- High quality forged stainless steel and special high wear resistant materials for best mechanical and corrosion resistance performance
- Monoblock construction compression head
- Poppet pumping valves (PVP)

Homogenizing valve

- Wear parts in solid tungsten carbide for extended operation

- One stage with pneumatic adjustment from the machine's control panel
- Second homogenizing stage as option

Power end

- Cast iron power frame
- Heavy duty and reliable power frame housing the transmission elements
- AC motor drive (IE2 or equivalent)
- Forced lubrication with gear pump and low oil pressure switch
- "V" belts drive and gearbox speed reduction unit

One 75TF

High Pressure Homogenizer

Available up to 250 bar, suitable for CIP and SIP, the One TF machines are the fit for purpose solution for medium size process lines. The energy efficient solution of One range allows to reduce consumptions and optimize the running costs.

Casing

- Made of polished stainless steel
- Easy access and maintenance with removable panels
- Cabinet fan

Plungers

- Chrome coated stainless steel

Tools and spare parts

- Ordinary maintenance tools and one set of emergency spare parts supplied with the machine
- O&M manual and spare part list

Pump valves

- High Resistant AISI 630 alloy reversible valve seats
- Poppet type (PVP) in solenoid Stellite™

Product line connections

- DIN 11851 fittings
- Tri-Clamp™ fittings
- SMS fittings
- Welding flange up to 30 bar back pressure

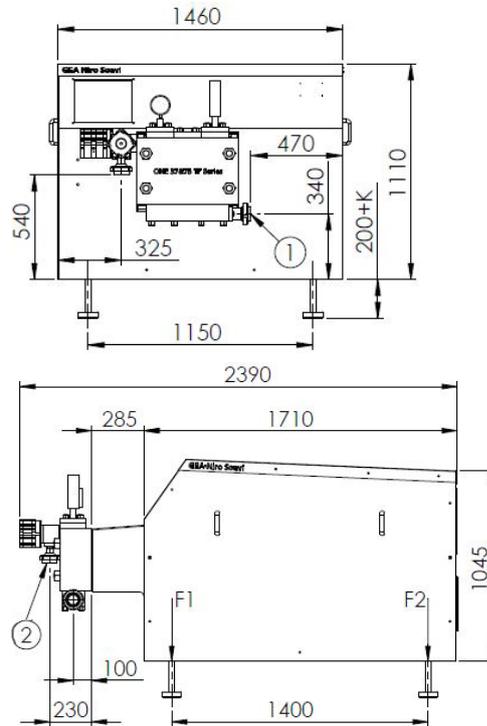
Pressure gauge

- Sanitary design analog high pressure gauge

Main options

- 2nd stage homogenizing valve
- Inlet pressure transducer with display and low pressure alarm
- Pressure gauge with trasmitter 4-20 mA
- Inlet pulsation dampener
- Outlet pulsation dampener
- Variable speed drive
- Water and air solenoid valve
- Welding flange
- Safety valve (SLRV) with handle suitable for CIP

Dimensional drawing



Overall dimensions (mm)

Performance

Pressure (bar)	Max Flow Rate (l/h)	Pressure (bar)	Max Flow Rate (l/h)
100 – 150	10000	210	10000
150	10000	220	10000
170	10000	230	10000
180	10000	240	10000
200	10000	250	9800

Each line refers to a different machine, which is designed for the specific maximum pressure and the specific maximum capacity.

Design features

Number of plungers	3
Stroke	80 mm
Absorbed motor power up to	75 kW
Net weight	2400 kg
Gross weight (crated in wooden case)	2600 kg
Water consumption	90 l/h
Lubricating oil ISO VG 150	30 l
Gearbox oil EP 220	18 l

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