

GEA Niro Soavi Technical Datasheet

High Pressure Homogenizer

One 37TF

From the world leader in high pressure homogenization: absolute quality and reliability with advanced technical solutions for any process need.



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

- 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

Casing

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

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 on CD-ROM

Pump valves

- High wear resistant Stellite™ alloy removable seats
- Poppet type (PVP) in solenoid Stellite™

Plungers

- Chrome coated stainless steel
- Self centering threaded connection

Pressure gauge

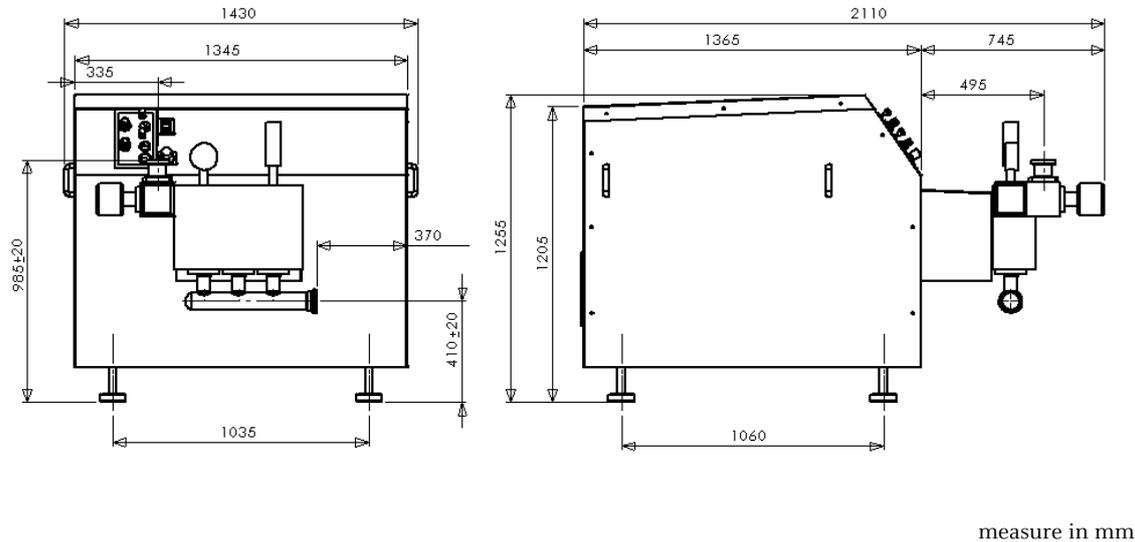
- Sanitary design analog high pressure gauge

Product line connections

- DIN 11851 fittings
- Tri-Clamp™ fittings
- SMS fittings

One 37TF

Dimensional drawing



Available up to 250bar, suitable for CIP and SIP, The OneTF 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.

Power end

- Cast iron power frame
- Forced lubrication with low oil pressure switch and cooling
- “V” belt drive and gearbox speed reduction unit

Casing

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

Main options

- 2nd stage homogenizing valve
- Build in electric power board
- Inlet pressure transducer with display + L switch
- Pressure Gauge with trasm. 4-20mA
- Inlet pulsation dampener
- Outlet pulsation dampener
- Air Solenoid valve
- Variable speed drive

FIXED CAPACITY PERFORMANCES

Pressure (bar)	Max Flow Rate (l/h)
100-150	8000
150	7500
170	7000
180	6500
200	6000
210	5700
220	5500
230	5200
240	5000
250	4000-4800

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

TECHNICAL DATA

Number of plungers	3
Stroke	70 mm
Absorbed motor power up to	37 kW
Net weight	1900 kg
Gross weight	2200 kg
Water consumption	90 l/h
Lubricating oil ISO VG 150	28 l
Gearbox oil EP 220	7 l

GEA Mechanical Equipment

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