

GEA Niro Soavi Technical Datasheet

High Pressure Homogenizer

One 75TF

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

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 USB memory stick

Pump valves

- High wear resistant AISI 630 alloy reversible valve seats
- Poppet type (PVP) in solid Stellite™

Plungers

· Chrome coated stainless steel

Pressure gauge

· Sanitary design analog high pressure gauge

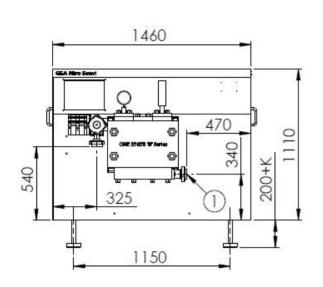
Product line connections

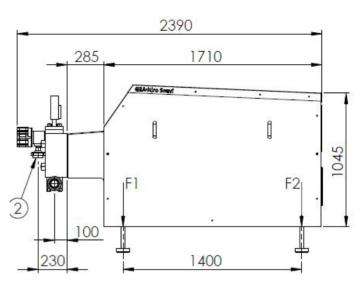
- · DIN 11851 fittings
- Tri-Clamp™ fittings
- · SMS fittings
- · Welding flange up to 30 bar back pressure



One 75TF

Dimensional drawing





Overall dimensions (mm)

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
- ${\boldsymbol{\cdot}}$ 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
- · Cabinet fan

Main options

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

GEA Mechanical Equipment

GEA Niro Soavi

Via A. M. Da Erba Edoari, 29 - I 43123 Parma (Italy) Phone + 39 0521 965411 Fax +39 0521 242819 Info.GeaNiroSoavi@gea.com www.niro-soavi.com

FIXED CAPACITY PERFORMANCES

| Pressure (bar) | Max Flow Rate (I/h) |
|----------------|---------------------|
| 100-150 | 10.000 |
| 150 | 10.000 |
| 170 | 10.000 |
| 180 | 10.000 |
| 200 | 10.000 |
| 210 | 10.000 |
| 220 | 10.000 |
| 230 | 10.000 |
| 240 | 10.000 |
| 250 | 9.800 |

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 | 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 ISO VG 220 | 18 |

