

3 Technical Data and Parameter

GEA One Homogenizer	
Model	GEA One Homogenizer 75TF
Technical Name	ONE75TF
Execution	Sanitary
Homogenizing stage	Double stage Homogenizer
Application	Dairy
Product	Fluid milk pasteurized (all animal types)
Max viscosity	Low (≤500 cP)
Maximum particle size	Low (≤ 500 μm)
Fiber length	Low (Fiber length ≤ 1,0mm)
Operating temperature	Medium (75°C ≤ & < 90°C) °C
Max salt content in the product	≤ 1%
Pressure	250 bar
Capacity (± 5%)	10000 I/h
RPM max	218
Max back pressure	≤ 5 bar
Min feed pressure	3-4 bar
Local conditions Temperature R.H. Height above sea level	5° C – 40° C < 90 % ≤1000m
Power specification Capacity range Absorbed power Required power (VSD) Installed power	100%->50% max Flow Rate 76.5 kW 84.1 kW 90 kW
Pumping pistons diameter	65 mm
Utilities Electrical supply Auxiliary circuits Water supply Air supply	400V-50Hz 24 V DC 2 bar 6 bar
Cleaning temperature and time	<90° C – 30 min
Sterilization temperature and time	140° C - 30 min

NOTE: Check and confirm the above data

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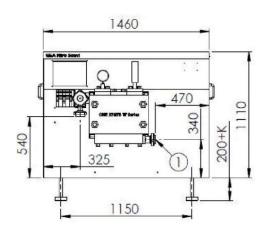
Technical Dimensions 3.1

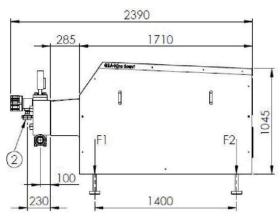


Technical data	
Number of plungers	3
Absorbed motor power up to	75 kW
Net weight	2.400 kg
Gross weight	2.600 kg
Sustainability values	
Energy consumption/1000 I product (kWh)	4,5
Water consumption/1000 product (I)	9
Lubricating oil ISO VG 150	30 l/2.000 h
Lubricating and cooling water	90 l /h
Noise level	≤78 dB(A) ± 2
Carbon footprint/1000 product (kg CO ₂)	2.29

Process data

Process data Sanitary execution: max. capacity at 150 bar; water max. hardness <15 H, max. particle size 60 microns, filtred water; noise level at max. capacity and max. pressure at 1 meter distance; CO2 emissions based on electricity production generating 0.5 kg CO/kWh.





Measurement in mm.

All pictures shown are for illustration purposes only. The actual machine may vary due to enhancements.



5 Additional Scope of Supply

5.1 Included Devices

75T01 2nd Stage pneumatic

2nd Stage homogenizing valve with pneumatic actuator and local pressure control on machine front panel

75T02 Inlet Pressure Transducer with display + L switch

Inlet Pressure Transducer with adjustable setpoint Low pressure signal (PNP type) and integrated digital display. 24VDC supply

75T04 Inlet Pulsation Dampener (up to 20 bar)

Inlet Pulsation Dampener, sanitary design, removable for inspection - up to 20 bar

75T05 Outlet Pulsation Dampener (up to 20 bar)

Outlet Pulsation Dampener (up to 20 bar backpressure), sanitary design, removable for inspection

75T06 Process line DIN 11851 Connections (Standard)

Process line in & out connections DIN 11851 (Standard) - up to 20 bar

75T08 Water Solenoid Valve

Solenoid Valve on water circuit

75T11 Crating of the machine

Crating of the machine

75T12 Bundle: Machine prepared for variable speed drive (down to 50%)

Bundle: Machine prepared for variable speed drive (down to 50% of nominal capacity) including built-in Stainless Steel EPB IP54 (One 37TF 380V÷480V) or external one IP55 (One 37TF 200V÷240V and One 75TF), External Danfoss VLT frequency converter (IP 55) and Electrical motor equipped for VSD. Includes electrical protection for motor and auxiliary circuits, hourmeter, alarm lamps, tagged components and cables, interface terminal board, electrical diagrams and components list. Assembled according to IEC and CE standards. Cables between machine and frequency converter NOT included. The EPB is prearranged for local / remote operation, via a LOC/REM selector on the EPB front door. Flow regulation from the display of the VLT

75T16 Water Flow Switch

Flow Switch on pistons lubrication water circuit

75T17 Pressure Gauge 2nd Stage

Pressure Gauge 2nd Stage - to measure independently the 2nd stage homogenizing pressure

75T22 Extra for Tungsten Carbide detonated plungers

Tungsten Carbide Detonated coated plungers instead of Chrome coated for abrasive conditions. Piston seals in KV / peek. On ONE7TS the piston seals remain HDD

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