

# Ariete NS5355



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

#### LIQUID END

- High quality forged stainless steel and special high wear resistance materials for best mechanical and corrosion resistance performance
- Optimized cleanable design with 3-A and electropolished versions available
- Ball (PVB) and poppet valves (PVP) interchangeable into the same block design for maximum product handling flexibility
- Aseptic version compression block available with sterile condensate packing flushing
- Various materials for pumping plungers
- Product inlet and outlet on the left side

#### HOMOGENIZING VALVE

- One stage (standard on homogenizers) with pneumatic adjustment from the machine's control panel
- High efficiency design homogenizing valves, based on advanced fluid dynamics concepts type NanoVALVE™ and Re+VALVE, available as standard
- Second stage and aseptic execution options

#### POWER END

- Heavy duty and reliable power frame with integrated planetary gearbox
- AC motor drive
- Forced lubrication with gear pump and low oil pressure switch
- "V" belts drive with belts tensioning system

#### CASING

- Made in polished stainless steel with noise reduction liquid-end enclosure
- Easy access and maintenance by the use of removable panels and doors
- Fully separated liquid-end from drive end
- Safe access to the auxiliary systems on board the machine
- Full visibility of the process part

#### TOOLS AND SPARE PARTS

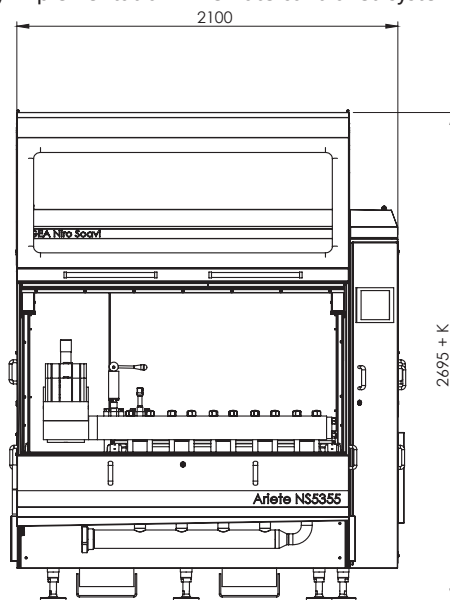
- Special tools and one set of emergency spare parts supplied with the machine
- O&M manual with spare part list on CD-ROM

**GEA Niro Soavi**  
Leading Pressure

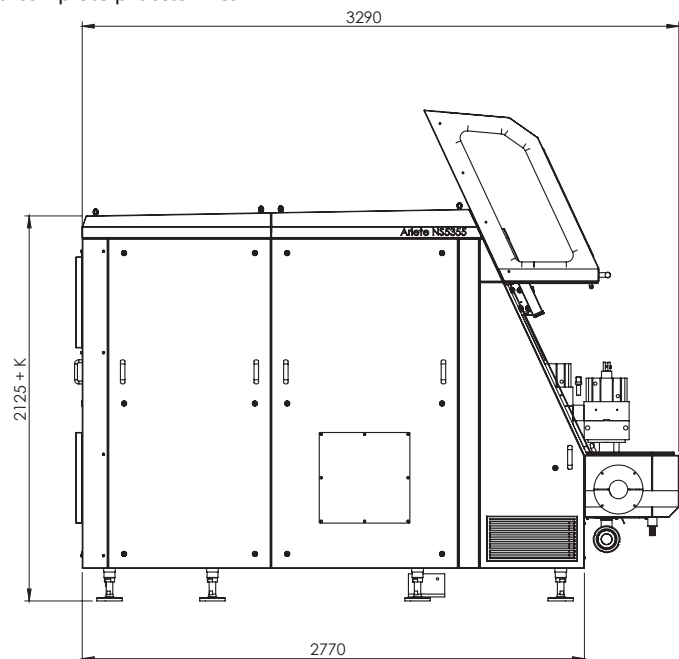
# Ariete NS5355

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- Designed according to the EU safety rules (CE standards), engineered, manufactured and tested according to ISO EN 9001:2000 Quality System
- Sanitary and aseptic execution, designed for CIP and SIP
- Suitable for abrasive and viscous products
- Homogenizing pressure up to 1500 bar
- Monoblock compression head design up to 700 bar pressure
- Multiblock VHP compression head design for operating pressure over 700 bar, to avoid stress concentration and block failure
- Easy implementation in remote controlled systems and complete process lines



measure in mm



Technical specifications are not mandatory and subject to change without notice

## PERFORMANCES

Pressure (bar)	Max Flow Rate (l/h)
120	60000
150	55000
180	50000
200	45000
250	37000
300	31000
400	23000
450	20000
500	18000
600	15000
700	12000
800	10000
1000	8000
1200	6000
1500	5000

## TECHNICAL DATA

Number of plungers	5
Stroke	150 mm
Absorbed motor power up to	315 kW
Weight	7000 kg

## COMPRESSION HEAD

- Special forged high grade Duplex / super-Duplex SS alloy
- Monoblock or Multiblock VHP construction

## AUTOMATION

- Touch screen panel for operating parameters control and adjustment
- On-board diagnostic system
- Prearranged for remote control and process automation integration

## PUMP VALVES

- High wear resistant Stellite™ alloy removable seats; Tungsten Carbide as option
- Ball type (PVB) or poppet type (PVP) in solid Stellite™

## PISTONS

- Chrome coated stainless steel
- Tungsten carbide coated stainless steel
- Solid ceramic

## HOMOGENIZING VALVE

- Pneumatic actuated
- Wear parts made of tungsten carbide, ceramics as option

## PRESSURE MEASUREMENT

- Sanitary design pressure transducer

## PRODUCT LINE CONNECTIONS

- DIN 11851, Tri-Clamp™, Varivent™
- Others as option upon request

## POWER END

- Rugged cast iron power frame
- Forced lubrication with low oil pressure switch
- Polished SS panels removable for maintenance

## MAIN OPTIONS

- High pressure pump version
- 2nd stage homogenizing valve
- Electric power board for fixed or variable capacity (with frequency converter)

**COMPANY**  
**WITH QUALITY SYSTEM**  
**CERTIFIED BY DNV**  
**=ISO 9001/2000=**

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