

HIGH PRESSURE HOMOGENIZERS AND PLUNGER PUMPS

SINCE 1974



HOMOGENIZERS AND PLUNGER PUMPS



MODEL TABLE* | MAXIMUM CAPACITY** | PRESSURE

models	power kW	pressure bar	150	200	250	400	600	1.000	1.200	1.500
HA31015	15	capacity l/h	3.000	2.000	1.500	800	600	300	200	200

Michelangelo Series

The new homogenizer and high pressure pump "Michelangelo Series" max flow rate up to 3.000 l/h.

TECHNICAL DATA

Plunger number	3
Stroke (mm)	50
Weight (kg)	620
Water consumption (l/h)	150
Lubrication oil (kg)	(SAE 85W-90) 4
Air and water inlet	1" female
Water discharge	½" female
Product inlet/outlet	Socket weld flange Øe40 Øi37 / Øe29 Øi22



MODEL TABLE* | MAXIMUM CAPACITY** | PRESSURE

models	power kW	pressure bar	150	200	250	400	600	1.000	1.200	1.500
HA35132	132	capacity l/h	23.000	20.000	16.000	9.000	6.500	3.000	2.500	2.000

Raffaello Series

The new homogenizer and high pressure pump "Raffaello Series" max flow rate up to 23.000 l/h.

TECHNICAL DATA

Plunger number	3
Stroke (mm)	100
Weight (kg)	4.200
Water consumption (l/h)	200
Lubrication oil (kg)	(SAE 15W-40) 40
Air and water inlet	½" female
Water discharge	1" female
Product inlet/outlet	Flange to weld Øe115 Øi110 / Øe52 Øi46



MODEL TABLE* | MAXIMUM CAPACITY** | PRESSURE

models	power kW	pressure bar	150	200	250	400	600	1.000	1.200	1.500
HA53355	355	capacity l/h	50.000	50.000	41.000	25.000	16.000	7.000	5.000	4.500

Leonardo Series

The new homogenizer and high pressure pump "Leonardo Series" max flow rate up to 50.000 l/h.

TECHNICAL DATA

Plunger number	5
Stroke (mm)	120
Weight (kg)	12.000
Water consumption (l/h)	330
Lubrication oil (kg)	(SAE 15W-40) 60
Air and water inlet	½" female
Water discharge	1" female
Product inlet/outlet	Flange to weld Øe101.6 / Øe70

LABORATORY MACHINES



MODEL TABLE* | MAXIMUM CAPACITY** | PRESSURE

models	power kW	pressure bar	600	1.000	1.500
ATOMO 3.0	4	capacity l/h	200	100	30

Galileo Series | Atomo 3.0

The new table top homogenizer Atomo 3.0. The compact three plungers lab homogenizer for reliable scale up from test to production. Atomo 3.0 is suitable to treat products with viscosity over than 20.000 cP, pressure up to 1.500 bar and capacities untill 30 l/h.

TECHNICAL DATA

Plunger number	3
Weight (kg)	180
Water consumption (l/h)	30
Lubrication oil (kg)	(SAE 85W-90) 2
Product inlet/outlet	Welding flanges DIN 11851



MODEL TABLE* | MAXIMUM CAPACITY** | PRESSURE

models	power kW	pressure bar	600	1.000	1.500
ATOMO 3.0 Skid	4	capacity l/h	200	100	30

Galileo Series Atomo 3.0 skid version

Skid version with feeding system and temperature control.

TECHNICAL DATA

Plunger number	3
Weight (kg)	500
Product inlet/outlet	Welding flanges tank DIN 11851

SPECIAL PUMPS



MODEL TABLE* | MAXIMUM CAPACITY** | PRESSURE

models	power kW	pressure bar	25	40	80
PX31006	5,5	capacity l/h	3.500	3.500	1.800
PX33015	15	capacity l/h	14.000	10.000	5.000
PX34022	22	capacity l/h	23.000	17.500	9.000
PX34030	30	capacity l/h	23.000	24.000	9.000

*Maximum data

Giotto Series | PX

The new patented PX pump of "Giotto Series" works at **maximum capacity of 24.000 l/h** and **maximum operative pressure 80 bar**.

TECHNICAL DATA

Plunger number	3
Stroke (mm)	200
Weight (kg)	4.200
Water consumption (l/h)	300
Lubrication oil (kg)	(SAE 15W-40) 35
Air and water inlet	½" female
Water discharge	½" female
Product inlet/outlet	Flange to weld 96x596 / Øe108



MODEL TABLE* | MAXIMUM CAPACITY** | PRESSURE

models	power kW	pressure bar	5	10	15	DN
TP22015	7,5+7,5	capacity l/h	12.000	11.000	10.000	100
TP23020	11+11	capacity l/h	16.000	14.000	12.000	100

Giotto Series | TP

New pump TP of "Giotto Series" works at **maximum capacity of 16.000 l/h** and **maximum operative pressure 16 bar**.

TECHNICAL DATA

Plunger number	2
Stroke (mm)	200
Weight (kg)	3.400
Air consumption (Nm³/h)	42
Grease consumption NSFH1 (kg/1500h)	2
Greasing type	Automatic
Minimum feeding air pressure (Bar)	7
Product inlet/outlet	Flange to weld Øe102/ Øe102



MODEL TABLE* | MAXIMUM CAPACITY** | PRESSURE

models	power kW	capacity l/h	pressure bar
BT60L	30 kW 6 poles	60.000	6

Chopper Pump

This range of machines find the ideal use in the technologic cycle of tomato treatment, fruit without stone and vegetable fibre for biogas plants. It is used to obtain a fine and regular size of the product before the thermal treatment guaranteeing a complete and homogeneous heating till the heart of all pieces.

TECHNICAL DATA

Weight (kg)	460
Product inlet/outlet	Øe134
Water inlet/outlet	G1/4"

TECHNOLOGY

All Bertoli machines are designed and manufactured using the best technology and materials:

- Compression heads are made of Duplex and Superduplex material (SAF2205 and SAF2507) in order to have high mechanical and chemical resistance. Seats , Plungers, pumping valves and homogenizing valves are made of materials designed for resistance to wearing.
- Pumping valves seat seals on the compression head by conical tampered housing without additional gaskets.
- Noise level of our machines is always lower than 75 dB (A).
- All parts in contact with the product are compliant to the CE/1935/04 and CE/2023/06.
- All our machines are equipped with safety systems according with European rules and with protections to prevent wrong operation.
- All the machines are designed for friendly maintenance.
- The complete automation of our machines is available with PLC control.
- All the products wetted part are compliant to FDA rules.
- All the machines are easy to clean and to sterilized with CIP and SIP systems.
- The appropriate procedures and controls in compliance with ISO 9001:2015 and ISO 14001:2015 ensure high quality and reliability of the product.

The main technical features of Bertoli equipment have been developed to reduce running cost and to ensure your product quality. Following some of the most significant:

- Piston self-alignment system patented: The self adjustable joint between guide piston and piston in combination with precising guides extend the life time of the piston packing and the life time of the piston “7.000 working hours.”
- High-efficiency patented homogenizing valve “Margherita “: it allows a 30% reduction of the homogenizer’s energy consumption, guaranteeing the maximum homogenizing efficiency with pressures 30 % lower than the traditional homogenizing valves.
- EHEDG compression head: designed according to EHEDG rules.
- Ultra clean aseptic compression head: labyrinth seals have a longer lifetime in comparison with standard plastic or elastomeric seals, avoiding also the risk of rubber powder inside the product. Very low service cost thanks to steam flow in low pressure area.
- Multi block compression head in super duplex for pressure over 600 bar.

And further options:

- Pharma execution with certification manual for cGMP validation.
- Atex version.
- Three plungers table top ATOMO 3.0, available on the Skid.
- Vibration and temperature sensor.
- Condensed steam or sterile water generator available in option.





Brand of Interpump Group



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