



The bottle is gripped around the neck by a clamp, and rapidly turned upside down by means of a **rack and pinion system**. The speed of this system enables longer cycles with the same number of clamps.

Single-phase machines

The nozzle penetrates the bottle-neck by 60 mm for 6, 9 and 10 clamps, and by 80 mm for all the others; this depth prevents any interference between the injected water and the backflow. The nozzle only opens when there is a bottle present, with no contact being made between the mouth of the bottle and the injector. The injection time equals 20% of the working time, and it cannot be altered.

Two-phase machines

In this case the nozzle penetrates the bottle-neck by 80 mm in order to make the blowing more effective and prevent any swirling in the neck. The injection of water which has been sterilized by microfiltration is followed by a series of blasts of air which has also been sterilized by microfiltration.

The presence of the bottle sets up the machine for the opening of the injector, but the actual injection of the water or air is controlled by external cams, which can easily be modified to

increase or reduce injection times.

The water and air circuits are completely separate. Forced draining alternated with draining by gravity allows for better drainage of the residues of water (see graph and table).

Both single- and two-phase machines.

The water is recovered in a closed circuit, keeping the machine dry during normal working conditions. Bottles can also be "seasoned" by recirculating an appropriate product.

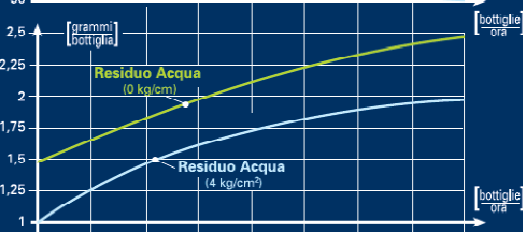
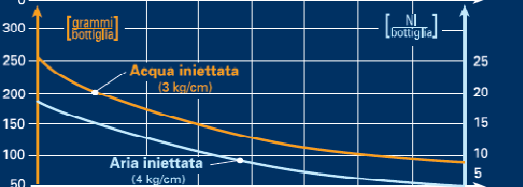
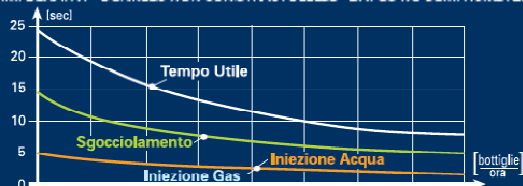
A bactericidal liquid can be circulated using the dummy bottles as an easy method of sterilizing the inlet circuit and the drainage of the machine.

The inlet water can be ozonized to sterilize the bottles.



MODELLO - MODEL	12116	12120	12124	12130
N. PINZE - N. PINCERS	16	20	24	30
VELOCITA' - SPEED [B/h]	1000-4500	1500-6000	1500-7500	2000-10000
PESO - WEIGHT [Kg]	1500	2200	2300	2800
POTENZA - POWER [kW]	1,30	1,30	1,30	1,30
D [mm]	60+115	60+115	60+110	60+115
H [mm]	170+400	170+400	170+400	170+400
CONS. H ₂ O - H ₂ O CONS. (3 kg/cm ²) [dm ³ /h]	400	540	650	900
CONS. ARIA - AIR CONS. (4 kg/cm ²) [Nlt/h]	27000	36000	45000	60000

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12106	400	500	600	700	800	900	1000	1100	1200
12109	600	750	900	1050	1200	1350	1500	1650	1800
12110	800	1000	1200	1400	1600	1800	2000	2200	2400
12112	1000	1250	1500	1750	2000	2250	2500	2750	3000
12116	1500	1875	2250	2625	3000	3375	3750	4125	4500
12120	2000	2500	3000	3500	4000	4500	5000	5500	6000
12124	2400	3000	3600	4200	4800	5400	6000	6600	7200
12130	3200	4000	4800	5600	6400	7200	8000	8800	9600

Iniezione Acqua Water Injection	[sec]	4,8	3,8	3,2	2,7	2,4	2,1	1,9	1,7	1,6
Iniezione Aria Gas Injection	[sec]	4,8	3,8	3,2	2,7	2,4	2,1	1,9	1,7	1,6
Sgocciolamento Draining	[sec]	14,4	11,5	9,6	8,2	7,2	6,4	5,7	5,2	4,8
Tempo Utile Working Time	[sec]	24,0	19,1	16,0	13,6	12,0	10,6	9,5	8,6	8,0
Acqua Iniettata Injected Water	[gr/bott]	258	206	170	147	131	118	106	94	81
Aria iniettata Injected gas	[Nl/bott]	18,1	14,5	12,1	10,4	9,1	8,1	7,2	6,6	6,0
Residuo Acqua (Risciacquo) Residual Water (Rinsing)	[gr/bott]	1,45	1,64	1,80	1,96	2,10	2,21	2,31	2,39	2,45
Residuo Acqua (Risciacquo+Soffiatura) Residual Water (Rinsing+Blowing)	[gr/bott]	1,05	1,24	1,43	1,57	1,70	1,80	1,87	1,92	1,95
[bott/h]	12106	400	500	600	700	800	900	1000	1100	1200
	12109	600	750	900	1050	1200	1350	1500	1650	1800
	12110	800	1000	1200	1400	1600	1800	2000	2200	2400
	12112	1000	1250	1500	1750	2000	2250	2500	2750	3000
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DADOS NÃO IMPLICATIVOS - NOT BINDING DATAS - TECHNISCHE ANBEREUNGEN VORBEHALTEN