



The InnoPET Blomax Series IV has an output rate of up to 81,000 PET bph. The InnoPET Blomax Series IV is available in a modular design of 4 to 36 blowing stations, each with an output rate of up to 2,500 PET bph. The standard mould hanger can cover bottle volumes from 0.1 to 3.0 liters. Special sizes can also be produced.

During the development of all technical innovations within the InnoPET Blomax Series IV, special emphasis was placed on key requirements like minimum energy consumption, process stability as well as fast changeover times respectively easy operation and maintenance. The focus and goal of the development was to minimize the total cost of ownership per produced bottle. All technical innovations integrated into the Series IV support this goal.



The NIR Reflexx-oven

- Exclusive use of short-wave, energy-dense NIR (Near Infra Red) radiation
- Heating-up time of preforms reduced by 50%
- Reduction of surface heat
- Re-heat and cooling energy consumption reduced by approx. 30% vs. traditional heating technology

The CLever-Loc blow molding stations

- Minimum footprint design, more stations on the same blowing wheel diameter
- Only one half opens, the other half remains rigid
- CLever-Loc device, clamping through toggle lever
- Longer process time
- Higher specific output of up to 2,500 bottles/h/station
- Compatible with Series III molds

Preform transport via active mandrel and TouchGrip system

- Improvement of the established mandrel system: Active mandrel transports preforms gently and securely through the oven
- Very small pitch: 37.7 mm
- TouchGrip gripper systems take over preforms/bottles

Servo-driven StretchFlexx stretching system

- Stretching speed independent of machine speed
- Servomotors control the stretching rod
- Rapid mould change-over, no mechanical adjustments
- Stretching movement and -speed can be adjusted on the screen
- High process stability
- Less scrap

Compressed air savings with Eco-Space valves

- Approx. 15% decrease of top industrial values in compressed air consumption through redesign of valve block
- Approx. 25-30% savings of blowing air through reduced dead air volume
- Airback^{Plus} air recycling system for up to 40% internal highpressure recovery

Low maintenance

- Reduction of wear parts
- Central axis of blowing station with permanent lubrication
- Automatic central lubrication system
- No adjustment of guidings and transfers
- Large doors, easy accessibility

Availability

- Up to 25% savings in change-over time of blowing stations
- Start-up time minimized to just 15 sec for many applications

More efficiency in blocked systems

- Trouble-free blocking with an InnoPET BloFill or InnoPET TriBlock
- Short start-up time
- 50% less preform scrap after an emergency stop
- Improved capacity adjustment of the entire system by an independent stretching motion
- Enhanced product quality

Important:

Reference of all values is made in comparison to Series III.



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InnoPET Blomax Series IV																		
Machine type/number of blowing stations		Maximum nominal output *) Standard bottle 0.5-l-bottle/h up to	bottle volume	Max. diameter	Maximum height	Machine footprint (A x B)	Machine height	Height of preform infeed system	Weight of basic machine	Electrical load	Typ. electr. consumption, 0.5-l-bottle, 8.5 g	Blowing air consumption, blowing pressure 25 bar, 0.5 l, 8.5 g (taking Airback ^{plus} into account)	Typical cooling requirement, 0.5-l-bottle, 9.1 g	Volume Preformsilo	Number of transport mandrels	Bottles after preform input stop	Number of standard installed heater boxes	Max. diameter support ring
	bph*	l	mm	mm	m	m	m	kg	kVa	kWh	Nm³/h	kW	m³	pcs	pcs	pcs	mm **)	
6	15000	0.1-3.0	115/125	365	6.1 x 4.7	3.65	4.5	13250	111.4	28.3	225	4.2	2,8	114	136	6	35/47	
8	20000	0.1-3.0	115/125	365	6.1 x 4.7	3.65	4.5	14000	131.4	37.7	276	5.6	2.8	114	139	6	35/47	
10	25000	0.1-3.0	115/125	365	6.5 x 4.7	3.55	4.5	15100	174.2	47.1	326	7.0	2.8	132	159	8	35/47	
12	30000	0.1-3.0	115/125	365	7.2 x 4.9	3.55	4.5	19250	208.3	54.5	377	8.3	2.8	151	180	10	35/47	
14	35000	0.1-3.0	115/125	365	7.6 x 4.9	3.55	4.5	20250	229.9	66.0	427	9.7	2.8	170	203	12	35/47	
16	40000	0.1-3.0	115/125	365	7.6 x 4.9	3.55	5.1	21000	249.9	75.4	478	11.1	2.8	170	209	12	35/47	
18	45000	0.1-3.0	115/125	365	8.4 x 5.1	3.55	5.1	24950	294.3	84.8	528	12.5	2.8	207	246	16	35/47	
20	50000	0.1-3.0	115/125	365	8.4 x 5.1	3.55	5.1	25700	314.3	94.2	583	13.9	2.8	207	250	16	35/47	
24	60000	0.1-3.0	115/125	365	9.4 x 6.1	3.55	5.1	28150	366	113.1	684	16.7	4.5	226	279	18	35/47	
28	70000	0.1-3.0	115/125	365	10.4 x 6.1	3.55	4.1	30500	445.8	131.9	786	19.5	4.5	282	332	24	35/47	
32	72000	0.1-3.0	115/125	365	11.1 x 7.1	3.55	4.1	33700	465.8	135.7	806	20.0	4.5	282	356	24	35/47	
36	81000	0.1-3.0	115/125	365	11.1 x 7.1	3.55	4.1	35200	505.8	152.7	897	22.5	4.5	282	346	24	35/47	

*) dependent on preform and bottle design

**) larger diameters on request

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