

Low Pressure

Metering Machines for Polyurethane foaming





Technology, Quality and Reliability

Cannon low pressure machines are a highly reliable solution, suitable for a wide range of foaming processes.

Cannon provides two families of low pressure machines:

- **Cannon B-System**, equipped with a submerged pump per each tank, suitable for low and medium output applications
- **Cannon B**, whose pumps are positioned outside of the tanks, suitable for very low and very high outputs

Both models are equipped with high-performance reliable volumetric gear pumps.



Respect for the Environment

Cannon has developed dedicated mixing head cleaning systems leveraging reusable cleaners, to ensure a lower environmental impact.

Cannon Water Wash has been designed for low viscosity and low reactivity formulations (e.g. rigid low-density polyurethane foams).

This system is based on continuous recycling of water, injected to the mixing head at a temperature of about 75-80°C, which is the optimal value for the washing efficiency.

Cannon EcoCleaner has been specifically developed for medium-high viscosities (e.g. integral and micro-cellular foams) and extremely reactive PU formulations. This technology is based on “ecological” chloride-free chemical solvents, nearly inert to the environment.



Main Features

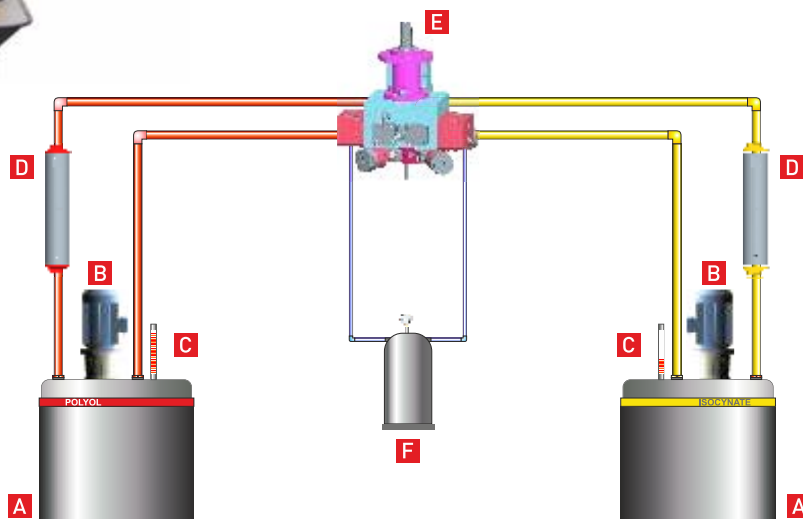
- Plug and Play machine
- Open structure with excellent accessibility, to facilitate the maintenance operations
- Tanks, dosing group, head supporting boom and control panel incorporated in a single framework
- Real-time process parameters monitoring
- Easy portability
- Emergency washing system
- Automatic washing cycle
- Contamination-free mechanical segregation of each component stream, up to the mixing head
- Modern and intuitive touch screen operator panel



Optional devices

- Magnetic couplings
- Mechanical stirrers for tanks
- ON/OFF filling valves and/or refilling pumps
- Closed loop control system to adjust output and ratio values in real time
- MD Link for data logging
- Remote Teleservice assistance
- Additional Polyol module with injection in the mixing head (Only for B300)

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|----------|----------------------|
| A | 90 Lt Jacketed Tank |
| B | Metering Group |
| C | Tank Visual Level |
| D | Heat Exchanger |
| E | Mixing Head |
| F | Washing System Group |



Technical Features

		B-Sys 7	B-Sys 15	B-Sys 15 FL(**)	B-Sys 30	B-Sys 30 FL(**)	B-Sys 60	B-Sys 60FL(**)	B-Sys 100	B-Sys 200
Min/Max Total Output Ratio 1:1 (*)	kg/min	1.4 7.0	3.0 14.8	2.1 11.1	6.0 29.0	4.5 21.7	12.0 58.0	9.0 43.5	24.0 100.0	50.8 200.0
Min/Max Iso Output	kg/min	0.7 4.0	1.5 8.4	0.7 4.0	3.0 16.6	1.5 8.4	6.0 33.1	3.0 16.6	12.0 60.0	25.4 120.0
Min/Max Pol Output	kg/min	0.6 3.5	1.3 7.4	1.3 7.4	2.6 14.5	2.6 14.5	5.3 29.0	5.3 29.0	10.5 50.0	21.0 100.0
Tank capacity (each)	Litres	90	90	90	90	90	90	90	90	250
Total Absorbed Power	kW	4.0	5.0	4.8	8	7.8	10.0	9.5	15.4	24.0
Air consumption – 6 bar	NI/min	650	650	650	650	650	650	650	650	1300

		B 300	B 300 Servo L	B 500	B 500 Servo L
Min/Max Total Output Ratio 1:1 (**)	kg/min	80 356	80 356	124 570	124 570
Min/Max Iso	kg/min	40 194	40 194	62 310	62 310
Min/Max Pol	kg/min	32 178	32 178	51 285	51 285
Tank capacity (each)	Litres	330	330	500	500
Total Absorbed Power	kW	33	35	60	60
Air consumption – 6 bar	NI/min	1000÷2500	1000÷2500	1000÷2500	1000÷2500

(*) The output is calculated assuming a density of 1.0 kg/l for Polyol and 1.2 kg/l for Isocyanate. The absorbed power is calculated at 20 bar and takes into account the electrical uses expected for the standard machine configuration.

(**) B-System FL machines are designed for working with a Pol/Iso Ratio of 2:1

Overall Dimensions

	B 300	B 500
A	2200 mm.	2200 mm.
B	2020 mm.	2190 mm.
C	2200 mm.	2600 mm.
D	3250 mm.	3380 mm.
E	3050 mm.	3260 mm.
F	2475 mm.	2900 mm.

	B-System	B-System 200
A	2900 mm.	3500 mm.
B	1200 mm.	1700 mm.
C	1200 mm.	1500 mm.
D	1700 mm.	2350 mm.
E	1630 mm.	1900 mm.

