

# LS100 Venturi



## Description

**LS100 Venturi** is venturi eductors based dosing system for OPL laundry applications designed for Low maintenance and easy installation.

With a modular design the system is composed by 2 main unit by 4 and 6 chemical inlets and an extension for 4 chemical inlets to manage up to **10 chemicals**. A Multi Washer module to manage installations with any combination of up to **4 washer extractors** with a maximum machines load of around 150-200Kg.

Available in two versions:

- **BASIC** with single flowmeter with and advanced dosing function compensation for water pressure inconstancy
- **ADV** (Advanced) Double flowmeter option for auto-calibration function and proof of dosing

LS100 is delivered with a dedicated backlit formula selector unit and five-signal trigger interface, giving the operator complete command of their application.

Thanks to the Bluetooth connection, via a dedicated app **SEKOBUE**, the LS100 allows local direct connection to the unit, even for end users program selection and chemical priming. The app is also linked to the remote cloud **SEKOWEB** portal and allows the remote management of the dosing system.



- Dedicated SekoBlue Bluetooth app for programming and end-user interface
- Remote management via SEKOWEB app and online platform
- 4.5" colour touchscreen display for real-time monitoring and programming
- Chemical tank monitoring
- Colour-coded chemical labels assist identification
- Four predefined dosing stages with four doses programmable per step
- Auto formula selection: binary and time based
- Relay mode functionality available
- Time-based statistics for chemical consumption, wash cycle and step activation and costs
- Modular design with quick and swivel connections
- Hose Barb connections for 8/10mm or 3/8" ID tubing
- Quick removable Venturi cartridge
- NRVs and connections seals with special O-rings for high chemical compatibility

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## Technical Specifications

Dosing specifications	
Max Flowrates	Low Flow rate: 650 ml/min @ 1.5bar * High Flow rate: 1300 ml/min @ 2 bar * (flow derates with high viscosity fluids)
Max suction	6 meters long, 3 m lift
*With water at 20°C	

Water supply specifications	
Pressure	Max: 6 Bar (dynamic)
Temperature	10-40°C (50 - 104°F)
Recommended water hardness	Min: 0°f, Max: 30°f (0-17 dH)
Water supply connection	Water strainer 20um with hose barb 8/10 mm 3/8"

Electrical specifications	
Voltage - Frequency (Main)	100-240 VAC - 50/60 Hz ±10%
Current	0.35 A - Main Unit 4 Inlets 0.35 A - Main Unit 6 Inlets 0.2 A - Extension 0.5 A - Distributor 0.05 A - Trigger Interface 0.1 A - Formula Selector
Fuse	1.25A T 250V (internal, replaceable)
Signals input (trigger Interface)	12-240V AC or DC ±10%
Relay output (trigger Interface)	Dry contact -bMax 230V 5A Resistive load
Approvals	EMC 89/336/EEC EN61000-6-4:2007

Environmental specifications	
Altitude	Maximum operating altitude 2000 meters (6500 feet)
Internal Ambient Temperature Range	5-40°C (41-104°F) For indoor use only
Humidity	Maximum relative humidity 80% at up to 30°C (86°F) decreasing linearly to 50% relative humidity at 40°C (104°F)
Pollution Degree	2
Installation Category	II

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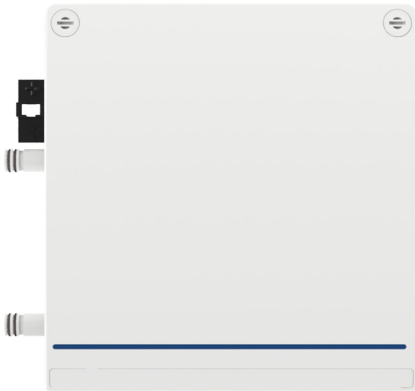
## A. Main unit 4 inlets

Main unit 4 inlets	
Dimensions W x H x D	390 x 270 x 160 mm – 15.4 x 10.6 x 6.3 in
Enclosure	ABS
Protection	IP 20 – IP 65 Electronic enclosure
Packaging	Wall bracket, 4x Elbow NRVs, 1x eductor plug, Water strainer, Power supply cord, manuals
Package	Carton box
Package dimension W x H x D	580 x 350 x 220mm – 22.8 x 13.8 x 8.7 in
Net weight (Approx)	3.6 kg – 7.9 lb
Gros Weight (Approx)	4.8 kg – 10.6 lb



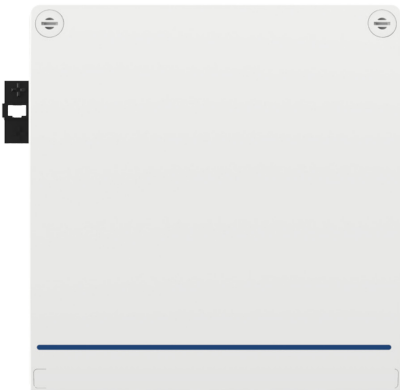
## B. Main unit 6 inlets

Main unit 6 inlets	
Dimensions W x H x D	480 x 270 x 160 mm – 18.9 x 10.6 x 6.3 in
Enclosure	ABS
Protection	IP 20 – IP 65 Electronic enclosure
Packaging	Wall bracket, 6x Elbow NRVs, 1x eductor plug, Water strainer , Power supply cord, manuals
Package	Carton box
Package dimension W x H x D	580 x 350 x 220mm – 22.8 x 13.8 x 8.7 in
Net weight (Approx)	4.1 kg – 9 lb
Gros Weight (Approx)	5.3 kg – 11.7 lb



## C. Extension 4 inlets

Extension 4 inlets	
Dimensions W x H x D	260 x 270 x 160 mm – 10.3 x 10.6 x 6.3 in
Enclosure	ABS
Protection	IP 20 – IP 65 Electronic enclosure
Packaging	Wall bracket, 4x Elbow NRVs, 4 cores cable for bus
Package	Carton box
Package dimension W x H x D	380 x 380 x 220mm – 15 x 15 x 8.7 in
Net weight (Approx)	2.2 kg – 4.9 lb
Gros Weight (Approx)	3 kg – 6.6 lb



## D. Distributor 4 Outlets

Distributor 4 Outlets	
Dimensions W x H x D	260 x 270 x 160 mm – 10.3 x 10.6 x 6.3 in
Enclosure	ABS
Protection	IP 20 – IP 65 Electronic enclosure
Packaging	Wall bracket, 4x hosebarbs, 4 cores cable for bus 1m -3.3 ft
Package	Carton box
Package dimension W x H x D	380 x 380 x 220mm – 15 x 15 x 8.7 in
Net weight (Approx)	2.7 kg – 6 lb
Gros Weight (Approx)	3.6 kg – 7.9 lb



## E. Trigger interface

Trigger interface	
Dimensions W x H x D	110 x 145 x 30 mm – 4.3 x 5. x 0.12 in
Enclosure	ABS
Protection	IP 54
Packaging	Wall bracket, 8 cores cable for signals 3m -9.8ft, 4 cores cable for bus 1m -3.3 ft
Package	Carton box
Package dimension W x H x D	190 x 130 x 170 – 7.5 x 5.1 x 6.7 in
Net weight (Approx)	0.3 kg – 0.7 lb
Gros Weight (Approx)	0.8 kg – 1.7 lb



## F. Formula Selector

Formula Selector	
Dimensions W x H x D	56 x 115 x 36 mm – 0.22 x 4.55 x 0.12 in
Enclosure	ABS
Protection	IP 54
Connection cable	4 cores cable 3m - 9.8ft
Packaging	Wall bracket, double sided tape
Package	Carton box
Package dimension W x H x D	188 x 120 x 65 – 7.4 x 4.7 x 0.25 in
Net weight (Approx)	0.3 kg – 0.7 lb
Gros Weight (Approx)	0.8 kg – 1.7 lb