



Helantec GmbH, D-76646 Bruchsal
Gasanalysengeräte und -systeme

Gas Filling Machine type RAPIDE L900 Product Information



This gas filling machine has been developed for an economical gas filling process. The capacity is approximately

Up to **900 units per day – with one filling-line**

per 8 hours/day and IG units with 0,8 m² / 14 mm spacer / 11,2 liters volume.

The gas filling machine is mainly used **online**, which means **in the production process** (after compress, before sealing)

The technology is based on a quick gas filling with synchronization of filling- and suction-capacity. Therefore there is no essential pressure increase or decrease inside the IG unit.

The gas concentration is measured online by an **internal gas analyzer** at **each filling-line** during the whole filling process. The filling process stops automatically as soon as the adjusted gas concentration is measured.

IMPORTANT: The **RAPIDE L900** with **2 filling-lines** will be available in **December 2006!**



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Specification

application	gas filling in the production process usable for all gases and mixtures used in the insulation glass industry
filling-lines	1 - 2 (upgrade is possible – large housing is required)
capacity	appr. 900 units per day – with one filling-line appr. 1800 units per day – with two filling-lines (8 hours/day – 0,8 m ² – 11,2 Liter volume)
technology	microprocessor controlled
construction	modular
filling speed	the filling speed is synchronized from 10 – 80 l/min
pressure control inside IG unit	online, within milliseconds
gas injection	pressure inside IG unit < 5 mbar
display of pressure inside IG unit	online, with LEDs at each filling-line
concentration measurement	online, with special integrated analyzer at each filling-line
concentration display	online, with LEDs at each filling-line
stop of filling process	automatically, as soon as the adjusted gas concentration is measured (adjustment possible between 70% and 100%)
calibration of the analyzer	semi-automatic, with calibration mode (needs 10 seconds only)
accuracy of analyzer	better than 2% abs.
particle filter	1 at each filling-line – installed outside – easily interchangeable
gas input pressure	7 bar
gas input pressure control	optical and acoustic
power supply	110 – 240 V / 50 – 60 Hz
dimension of gas filling machine	small housing 490 x 550 x 580 mm (w x d x h) large housing 1100 x 600 x 600 mm (w x d x h)
weight of gas filling machine	appr. 55 kg – small housing – with one filling-line appr. 60 kg – large housing – with one filling-line appr. 100 kg – large housing – with two filling-lines
accessories	special accessories are available
filling time (based on 90% gas concentration and a filling-lance diameter of 4,0 mm)	
dimension	time
small	< 25 sec.
medium	< 30 sec.
large	> 40 sec.



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Accessories for gas filling machine

1 per line	2,5 m filling tube complete with filling probe 4,0 mm
1 per line	2,5 m suction tube complete with particle filter and suction probe 4,3 mm
1	power cable with filter
1	bottle pressure regulator (GER Version)
1	tubing for gas bottle
1	set with spare lamps and fuses
1	filling lance 4,0 mm as spare part
1	particle filter as spare part
1	manual (German / English)

Additional accessories as samples

100	sleeves 5 mm x 7,2 mm	50	stoppers for edge corner keys
100	stoppers 4,4 mm x 7,2 mm	50	stoppers, reusable
50	edge corner keys without hole for gas filling	1	driller tool 5 mm
50	edge corner keys with hole for gas filling	1	tool for the sleeves

Gas filling machine will be shipped complete – ready for filling.