

# ATLANTIC

## *Machinery*



*Gas Filling & Test Equipment*

# Overview of Products

Number of Filling Lines	Flow Rate Ltr/Min	Fill Time per Line 1220mm x 610mm x 15.5mm	Number of Spacer Holes	Vertical Filling	Horizontal Filling	Gas Type	Computer Display	Sizes (mm) H x W x D
IGA 10 <b>1</b> IGA KX <b>1</b>	10 0-8	130 secs	2 2	Yes Yes	No No	Argon Krypton/Xenon	Yes Yes	250mm x 560mm x 500mm
IGA 30 <b>1</b> IGA 60 <b>2</b> IGA120 <b>4</b>	28 x 1 28 x 2 28 x 4	2 holes 62 secs 1 hole 95 secs	1 or 2	Yes	Yes	Argon	Yes	300mm x 560mm x 500mm
IGA200 <b>1</b>	180	12 secs	2	Yes	No	Argon	Yes	510mm x 560mm x 500mm



**IGA 10**



**IGA 200**



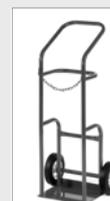
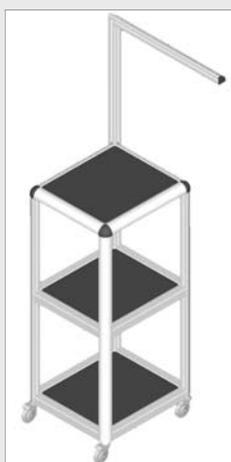
**IGA 30**

The touch pad controls common to all the IGA series enable gas percentage levels to be changed and on the IGA30-60 range dwell times can be altered, gas calibration can be checked and includes fault finding analysis.

The IGA200 also includes automatic I.G. pressure monitoring, separate hose assembly for narrow spacer cavity and foot pedal control. Designed for high speed gas filling and suitable for operating with automatic production lines.

## Accessories

- Sleeves & plugs
- Spacer bar punch
- Spacer frame drilling jig
- Sleeve inserter
- Hot melt gun
- Glass labels
- Mobile gas trolley
- Hand tools



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# Gas Filling Methods

## How to gas fill units

IG units can be filled with vertically or horizontally, through one hole or two holes in the spacer bar or through gas filling corner keys.



Gas filling corner keys



Gas filling with sleeves



One hole gas filling



Gas filling horizontally

Two hole filling is achieved either with gas filling corner keys or with gas filling sleeves inserted into the spacer bar. In either case a gas barrier has to be made to prevent the gas from escaping during the filling procedure.

If a **hot melt sealant** is used a silicone pug is inserted into the key or sleeve and the sealant is continuously applied around the unit as normal, when the sealant has cooled down, 2-3 minutes, the silicone plug is removed and the unit can be gas filled. The equipment will give an audible signal when the unit has the correct level of gas and the lances can be removed, the top lance is removed first and the gas plug inserted this procedure is repeated for the bottom hole. The sealant void behind the plug can be conveniently sealed using a **portable hot melt** gun or using the bulk hot melt applicator. Please note the gas is always dispensed at the bottom of the unit and the suction lance at the top and the lances placed into the unit as shown.

**Two part sealant** should be used in conjunction with a butyl primary seal, the butyl can provide an excellent gas barrier if applied properly, however a problem can arise when used with cut spacer bar unless the ends are sealed with the butyl the gas may leak through the ends of the bar. Provided the butyled spacer frame can give a good gas barrier the procedures are as above but omitting the use of the silicone plug with the sealant being applied after the gas filling cycle. If a butyl gas barrier cannot be secured then the procedures for the hot melt system may be used. The use of pre-bent spacer will resolve any problems with gas leakage provided the butyl primary seal is properly applied.

The **IGA** range of gas fillers can be used in either one or two filling configurations.

The procedures are the same as above but using a special lance which fills and sucks at the same time. This system is convenient as there is only one hole to prepare and the unit may be filled either vertically or horizontally. Typically one hole filling is slower than with two holes however in terms of production flow this time difference is offset by the reduced frame preparation.

Please note larger units should be filled vertically to maintain equalisation.



Gas filling keys, sleeves, plugs



Portable Hot Melt Gun

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The latest range of gas fillers from **Inagas** are based on over 10 years experience in gas filling technology

The IGA series incorporates design features usually associated with more expensive equipment.



The touch pad controls enables gas percentage levels to be changed.

The flow rate is adjustable from 0-10 litre per minute and suitable for smaller production volumes of Argon filled units.

Versions of the IGA10 are suitable for Krypton or Xenon gas.

## The way forward in gas filling technology



Depicted IGA10

### Technical Data

Models:	IGA10 1 line gas filler
Dimensions:	250mm x 560mm x 500mm
Power:	13 amp
Flow Rate:	0-10 litres per minute
Fill times :	125 sec*
Filling lines:	1
Vertical filling:	2 hole filling
Touch pad controls	
Self calibrating gas analyser	
Audible signal on completion of fill	

\* Unit size 1220mm x 610mm x 15.5mm

Supplied with gas regulator, hoses and connections unit labels, silicone plugs if required, and operating manual

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The IGA series incorporates design features usually associated with more expensive equipment.



The touch pad controls enables gas percentage levels to be changed, dwell times to be altered, and includes fault finding analysis.

The equipment is capable of supporting either one or two hole filling through the spacer bar. The IGA30 can be upgraded to IGA60 specifications.

The gas analyser only needs to be calibrated on an annual basis and this can be carried out as part of an **Inagas** service agreement.

## The way forward in gas filling technology



Depicted IGA60

### Technical Data

Models:	IGA30 1 line gas filler IGA60 2 line gas filler
Dimensions:	300mm x 560mm x 500mm
Power:	13 amp
Flow Rate:	28 litres per minute
Fill times :	2 holes 62sec./1 hole 95 sec
Filling lines:	1 or 2
Vertical filling:	1 or 2 hole filling
Horizontal filling:	1 hole only
Touch pad controls	
Self calibrating gas analyser	
Audible signal on completion of fill	
Visual display of gas concentration	

Supplied with gas regulator, hoses and connections  
unit labels, silicone plugs if required, and operating manual

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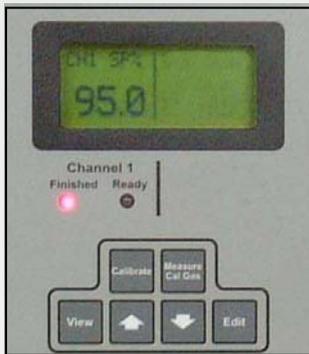
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# The way forward in gas filling technology

The latest range of gas fillers from **Inagas** is based on over 10 years experience in gas filling technology

The IGA 200 series incorporates design features which enable fast and accurate fill times



The touch pad controls enables gas percentage levels to be changed, dwell times to be altered, and includes fault finding analysis.

The IGA200 is designed to meet the requirements of high volume producers who use automatic production lines.

Inagas also supply the sleeves/plugs and specialist punching or drilling systems used for preparing the spacer frames for high speed filling



Depicted IG200

## Technical Data

Models:	IGA200
Dimensions:	510mm x 560mm x 500mm
Power:	13 amp
Flow Rate:	180 litres per minute
Fill times :	12 secs unit size 1220mm 610mm x 15.5mm
Filling lines:	1
Vertical filling:	2 hole filling

### Touch pad controls

Self calibrating gas analyser

Audible signal on completion of fill

Visual display of gas concentration

Automatic pressure monitoring

Size of spacer holes required: 8.9mm suitable for bar widths 11.5mm and above. IGA200 supplied with additional hose set which uses 6.5mm holes.

Supplied with hoses and connections and operating manual  
All equipment CE marked

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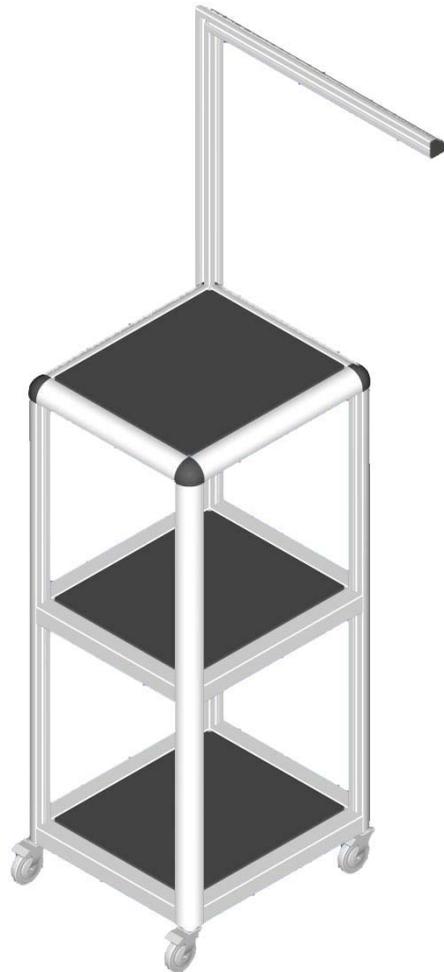
# New Accessories

The new mobile gas trolley fabricated in high quality aluminium is a useful accessory for securing any of the IGA gas fillers.

The overhead boom ensures that the gas filling lines are kept off the floor to minimise their damage and prevent accidents.

The gas carry trolley enables bottles of gas to be moved around the factory in safety.

It can be stored behind the gas filling equipment and prevents the gas bottle from being knocked over.



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# Argon Testing

The **TestAr 2** is the latest in invasive gas testing equipment. It has a number of unique features including visual display of gas fill percentage, gas calibration system, inbuilt pump and an Argon sensor which ensures fast and accurate readings. The readings can then be downloaded to a PC for placement into a spread sheet.

The option of a printer is also offered.

The equipment is contained in its own portable carry

The **TestAr** has been developed to give the producers of Argon filled units a quick method of checking the gas concentration levels. The **TestAr** has an inbuilt pump which draws the gas over an Argon sensor which then indicates the level of gas concentration in the unit. Red light 0%-20%, yellow light 20%-85% and green light 85%-100%.

The **TestAr** is supplied with its own case which contains the battery re-charging unit and a punch for piercing the sealed unit.



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