

ELCOMETER  
**RIGA**  
BELLOWS PUMPS



elcometer®

# ELCOMETER

# RIGA

## VERTICAL BELLOWS

RATIO

25:1

AA

AR

FF

IF

IP

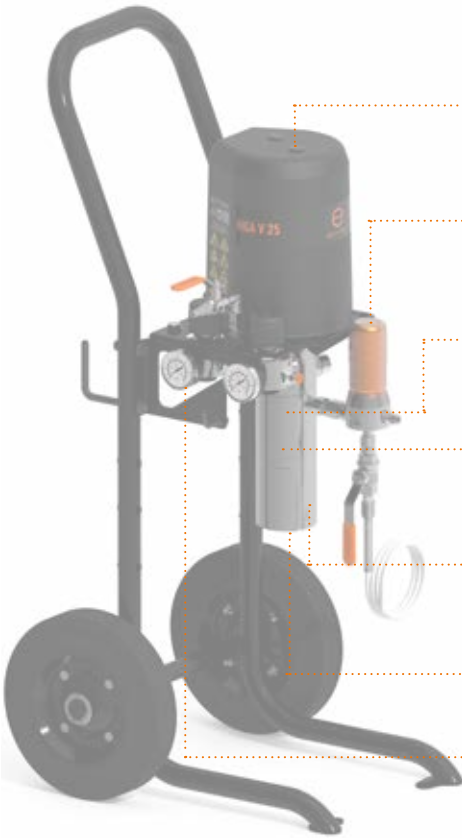
COMPLIANCE:

ATEX  2 II GX

RIGA V25

The gentle pumping action of the Elcometer RIGA V air assisted airless pump, with its vertical bellows - combined with reduced sealing surfaces, provides excellent fluid handling and supply of shear-sensitive materials, including UV coatings and waterborne materials.

## Key Features



- Low air consumption air motor 0.86cfm for improved efficiency and low running costs
- Anti-pulse fluid filter fitted as standard ensures consistent spraying
- Rugged stainless steel and aluminium pump construction handles a wide variety of fluid types
- Smooth bellows action for uniform paint flow, engineered for use with sheer sensitive coatings
- No exposed seals or packing reduces maintenance or contamination
- Easy to flush through for fast colour changes
- Fluid and air regulator included as standard for consistent control of fluid & air pressure



- Fewer working parts to replace, enhanced reliability and less down time
- Each pump is fitted on to a rugged & ergonomic trolley with built-in hose & gun rack, for easy movement around site
- Unbolt the bracket and pump from the trolley to wall mount
- Wall mounted with suction hose only 12kg (26.5lb)

# ELCOMETER

# RIGA

## HORIZONTAL BELLOWS



RIGA H25

AA

AR

FF

IF

IP

RATIO

10:1

15:1

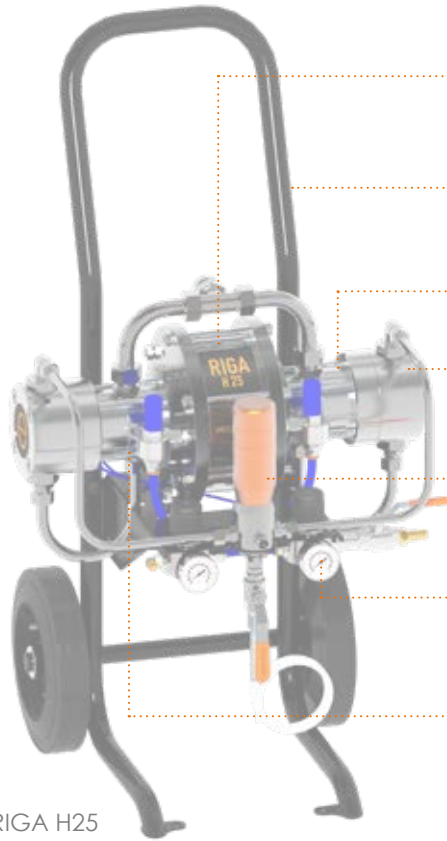
25:1

COMPLIANCE:

ATEX  2 II GX

Multi spray gun feeding capabilities, the powerful Elcometer RIGA H is an air assisted airless horizontal bellows pump with a smooth bellows action for uniform material flow. Thanks to its closed pump design and leak proof system, there is no air or moisture contamination - ideal for moisture sensitive coatings.

## Key Features



Elcometer RIGA H25

Low maintenance 59cfm (16.71lpm) air motor for large automated paint lines

Pump fluid section manufactured from stainless steel to handle solvent & waterbased coatings

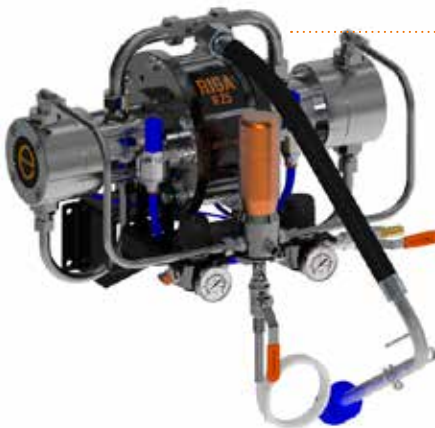
High flow 9.75lpm (2.58gpm) engineered to supply multiple guns

Smooth bellows action for uniform paint flow, engineered for use with sheer sensitive coatings

Anti-pulse fluid filter fitted as standard ensures constant spray pattern and uniform film thickness

Fluid and air regulator included as standard for consistent control of fluid & air pressure

No exposed seals or packing reduces maintenance or contamination



Each pump is fitted onto a rugged & ergonomic trolley with built-in hose & gun rack, for easy movement around site

Unbolt the bracket and pump from the trolley to wall mount

Elcometer RIGA H25 weight complete with suction hose: 33.3kg (58lb)

# Elcometer **RIGA** Key Features

Precision engineered and designed for handling of shear sensitive, moisture-sensitive materials and UV coatings, the Elcometer RIGA range is ideal for automated paint lines where performance, reliability and coating stability matter most.

## IDEAL FOR USE WITH:

Material	
Solvent Based	◀
Water Based	◀
Product	
RIGA H 10, 15, 25 & RIGA V 25	
Pre-catalysed wood lacquers	◀
Acid catalyst wood lacquers	◀
Waterborne wood lacquers	◀
Exterior joinery coatings	◀
Fire retardant class b-s1, d0 coatings	◀
Fire retardant acid catalyst wood lacquers	◀
Floor lacquers	◀
Single component (1k) epoxies	◀
Single component (1k) polyurethanes	◀
Anti-fouling (1k) low viscose coatings	◀
Water based enamel	◀
Military grade bio grade coatings	◀
Sound deadener coatings	◀
Solvent based polyurethane coatings	◀
Epoxy primers	◀
RIGA H 10, 15, 25 only	
UV Curable wood coatings	◀
Moisture sensitive polyurethane coatings	◀
UV Curable polyurethanes	◀

## Smooth internal paint flow

Ideal for flat bed coating systems, the gentle bellows action of the Elcometer Riga pump prevents paint bubbling of sheer sensitive materials such as varnishes UV-cure coatings, high-solid waterborne and solvent based materials.

## Durable and reliable

With minimal working parts to replace, the tough stainless steel and aluminium construction of the Elcometer Riga provides long-lasting durability with minimal maintenance, even for highly demanding materials.

## Enclosed bellows system

The Elcometer Riga ensures no air or moisture contamination - ideal for moisture sensitive coatings even when if it fails, thanks its closed system with no exposed seals or packing.

## Easy to use and maintain

Elcometer Riga bellows pumps are easy to operate and simple to maintain.



Enclosed bellows packing system to prevent contamination



Supply multiple guns on flat bed coating systems

## TECHNICAL SPECIFICATION

	RIGA H10	RIGA H15	RIGA H25	RIGA V25
Ratio	10 : 1	15 : 1	25 : 1	25 : 1
Maximum fluid particle size <sup>1</sup>	0.25mm (10mils)	0.25mm (10mils)	0.25mm (10mils)	0.25mm (10mils)
Fluid temperature range	4.4 - 60°C (40 - 140°F)	4.4 - 60°C (40 - 140°F)	4.4 - 60°C (40 - 140°F)	4.4 - 60°C (40 - 140°F)
Fluid inlet size	Metric 36 x 2 (Male)	Metric 36 x 2 (Male)	Metric 36 x 2 (Male)	¾" BSP Male
Fluid outlet size	¼" BSP Male	¼" BSP Male	¼" BSP Male	¼" BSP Male
COMPOSITION OF PARTS IN CONTACT WITH PRODUCT (WET)				
Seats	Stainless Steel	Stainless Steel	Stainless Steel	Polyamide
Balls	Stainless Steel	Stainless Steel	Stainless Steel	Stainless Steel
Pump Body / Cylinder Housing	Aluminium	Aluminium	Aluminium	Aluminium
Centre Section	Hard Chrome Stainless Steel	Hard Chrome Stainless Steel	Hard Chrome Stainless Steel	Hard Chrome Stainless Steel
Packing Kit (Top)	Polyethylene, Stainless Steel	Polyethylene, Stainless Steel	Polyethylene, Stainless Steel	Polyethylene, Stainless Steel
Packing Kit (Bottom)	-	-	-	Polyethylene, Stainless Steel
EXTERNAL PUMP PARTS (DRY)				
Pump Body / Cylinder Housing	Aluminium	Aluminium	Aluminium	Aluminium
AIR				
Air Pressure Operating Range	1-6bar (14-87psi)	1-6bar (14-87psi)	1-6bar (14-87psi)	1-7bar (14-101psi)
Air Consumption at 60 bar (870 psi) & 2.4 CPM	16.71lpm (0.59cfm)	13.85lpm (0.49cfm)	14.96lpm (0.53cfm)	-
Air Consumption at 100bar (1450psi) & 5.7 CPM	-	-	-	24.31lpm (0.86cfm)
Maximum Air Inlet Pressure	6bar (87psi)	6bar (87psi)	6bar (87psi)	7bar (101psi)
Air Inlet	¼" BSP Female	¼" BSP Female	¼" BSP Female	¼" BSP Female
Air Exhaust / Silencer Port	¼" BSP Female	¼" BSP Female	¼" BSP Female	¼" BSP Female
Compressor Requirements (Minimum)	16.71lpm (0.59cfm)	13.85lpm (0.49cfm)	14.96lpm (0.53cfm)	24.31lpm (0.86cfm)
Ambient Air Temperature Operating Range	-10 - 60°C (14 - 140°F)	-10 - 60°C (14 - 140°F)	-10 - 60°C (14 - 140°F)	-10 - 60°C (14 - 140°F)
FLUID / PRODUCT				
Maximum Fluid Outlet Working Pressure	66bar (957psi)	82bar (1189psi)	148bar (2146psi)	176bar (2552psi)
Stroke Length	42mm (1.65")	42mm (1.65")	42mm (1.65")	44mm (1.73")
Maximum Spray Tip Size	-	-	-	0.45m (0.018")
Product Output per Cycle	105.55 cc (3.54fl oz/min)	105.55 cc (3.54fl oz/min)	105.55 cc (3.54fl oz/min)	42.33 cc (1.38fl oz/min)
Free Flow Delivery @ 60 CPM*	9.75lpm (2.58gpm)	9.75lpm (2.58gpm)	9.75lpm (2.58gpm)	2.54lpm (86.08fl oz/min)
DIMENSIONS				
Weight (Pump only)	24kg (52.9lb)	25kg (55.1lb)	31kg (68.4lb)	9.7kg (21.4lb)
Weight (Wall Mount with Suction Hose)	26.3kg (58lb)	27.3kg (58lb)	33.3kg (58lb)	12kg (26.5lb)
Weight (Cart Mount with Suction Hose)	37.5kg (82.7lb)	38.5kg (84.9lb)	44.5kg (98.1lb)	24.5kg (54lb)
Dimensions (Cart Mount)	543 x 527 x 999mm (21.38 x 20.74 x 39.33")	543 x 527 x 999mm (21.38 x 20.74 x 39.33")	543 x 527 x 999mm (21.38 x 20.74 x 39.33")	439 x 490 x 999mm (17.3 x 19.3 x 39.33")
Dimensions (Wall Mount)	543 x 359 x 516mm (21.38 x 14.13 x 20.33")	543 x 359 x 516mm (21.38 x 14.13 x 20.33")	543 x 359 x 516mm (21.38 x 14.13 x 20.33")	332 x 294 x 527mm (13.08 x 11.56 x 20.74")

1. With suction hose or deposit and pump output filter.

2. Product Output per Cycle = Fluid Displacement per Cycle

3. Maximum values with water as test media.

\* **lpm**: Litres per minute    **fl oz/min**: US Fluid ounces per minute    **gpm**: US Gallons per minute    **CPM**: Cycles per minute

# Elcometer **RIGA** Part Numbers

## PART NUMBERS

◀ Supplied as standard ◁ Optional extra

Part Number	Description	Trolley Mount*	Air & Product Hose	Suction Hose
PSPBH10AAA-T	Elcometer Riga H10 Air Assisted Airless Bellows Piston Spray Pump	◀	◀	◀
PSPBH15AAA-T	Elcometer Riga H15 Air Assisted Airless Bellows Piston Spray Pump	◀	◀	◀
PSPBH25AAA-T	Elcometer Riga H25 Air Assisted Airless Bellows Piston Spray Pump	◀	◀	◀
PSPB25AAA-T	Elcometer Riga V25 Air Assisted Airless Bellows Piston Spray Pump	◀	◀	◀

## PACKAGE SELECTOR

◀ Supplied as standard ◁ Optional extra

Part Number	Pump Configuration						Spray Gun			
	Wall Mount Only	Trolley & Wall Mount	Suction Hose	Hopper Fed	7.0m (23ft) Air & Product Hose <sup>1</sup>	Fluid Regulator	Sagola Mini Xtreme Mix Spray Gun	Sagola V7 Mix Standard Automatic Spray Gun	Sagola V7 Mix Robotic Automatic Spray Gun	Spray Tip
<b>RIGA H10</b>										
RH10-MXM-1340		◀	◀		◀	◀	◀			13/40
RH10-MXM-1140		◀	◀		◀	◀	◀			11/40
<b>RIGA H15</b>										
RH15-MXM-1340		◀	◀		◀	◀	◀			13/40
RH15-MXM-1140		◀	◀		◀	◀	◀			11/40
<b>RIGA H25</b>										
RH25-MXM-1340		◀	◀		◀	◀	◀			13/40
RH25-MXM-1140		◀	◀		◀	◀	◀			11/40
RH25-V7S-1340		◀	◀		◀			Standard		13/40
RH25-V7R-1340		◀			◀				Robotic	13/40
<b>RIGA V25</b>										
RV25-MXM-1340		◀	◀		◀	◀	◀			13/40
RV25-MXM-1140		◀	◀		◀	◀	◀			11/40

\* Includes wall mount



## Elcometer **RIGA** Packages

The Elcometer RIGA range is available as a complete kit with the Sagola V7 MIX Automatic Spray Gun, fluid regulator, filter and product & air hose kit.



The range of Elcometer Riga pumps are available wall or trolley mounted supplied with a fluid regulator and suction hose as standard. Hoppers can be purchased separately.



7.5m (24.6ft) Combined Anti-Static Air & Product Hose with Protective Cover for Air Spray (Low Pressure) Systems.

Sagola V7 Mix Automatic Air Assisted Airless Spray Gun with a choice of aircap, needle and nozzle combinations to suit your application.

Designed to reduce mist and improve work conditions, the **Sagola V7 Mix** Air Assisted Airless Automatic Spray Gun has high open and close rates, ideal for use with paint reciprocating systems and robotic paint arms and systems.

- **Large open fluid passages**  
tungsten carbide product seating mechanism, ideal for use with robots and specialist machinery
- **Transfer efficient**  
ensures minimal mist, lowering pollution, reducing product costs
- **Fast application speed**  
ideal for lacquers, clearcoats, UV paints etc.



# Elcometer **RIGA** Accessories

## Combined Air & Product Hose

Combined Air & Product Hose with Protective Cover for Air Assisted Airless Systems.

**Air Hose (Blue):** Polyurethane, ID: 6mm x OD: 8mm (compatible with 8mm quick connector).

**Product Hose (Blue):** ID: 4mm x OD: 10.4mm with ¼" Female Adaptor  
**Protective Cover (Black):** Polyester.



Part Number	Description
PT56414036	Combined Air & Product Hose with Protective Cover; 7m (22.9 ft)
PT56414037	Combined Air & Product Hose with Protective Cover; 11m (36.1ft)

## Sagola Mini Xtreme Mix

Sagola Mini Xtreme Mix with 8mm Quick Connect Air Coupling and ¼" Swivel Product Coupling.



Part Number	Description
PG35130202	Sagola Mini Xtreme Mix with 8mm Quick Connect Air Coupling and ¼" Swivel Product Coupling, with Air Assisted Airless Spray Tip 11/40: 0.011"/0.28mm, 40 Degree
PG35130206	Sagola Mini Xtreme Mix with 8mm Quick Connect Air Coupling and ¼" Swivel Product Coupling, with Air Assisted Airless Spray Tip 13/40: 0.013"/0.33mm, 40 Degree

## Sagola V7 MIX Automatic Spray Gun

Sagola V7 Mix Automatic Spray Gun designed for use with the Elcometer RIGA H25 Bellows Pump, ideal for automated paint lines.



Part Number	Description
PG35230101	Sagola V7 Mix Standard Automatic Spray Gun with 13/40 Spray Tip
PG35230102	Sagola V7 Mix Robot Automatic Spray Gun with 13/40 Spray Tip

# Elcometer RIGA Spares

For a complete breakdown of Elcometer RIGA pump spares, including diagrams, please see Spare Parts.

## Spares

RIGA H10	RIGA H15	RIGA H25	RIGA V25	Description
-	-	-	PT30090100	Piston Seal Packing Oil; 500ml (16.90fl oz)
PT83660047	PT83660047	PT83660047	PT83660066	Suction Hose Product Filter
PT83660029	PT83660029	PT83660029	PT83660009	Anti-Pulsation System Filter: 100 Mesh
PT83660030	PT83660030	PT83660030	PT83660010	Anti-Pulsation System Filter: 60 Mesh

## Replacement Parts - General

RIGA H10	RIGA H15	RIGA H25	RIGA V25	Description
PT86465225	PT86465225	PT86465225	PT56415905	Suction Hose complete with Suction Hose Product Filter
PT84260099	PT84260099	PT84260099	PT84260099	Product Return Valve & Hose Replacement Kit
PT56418689	PT56418689	PT56418689	PT56413511	Anti-Pulsation System
PT54550016	PT54550016	PT54550016	PT54550013	Analogue Pressure Gauge 0 - 10bar / 0 - 145psi

## Replacement Parts - Piston Cylinder

RIGA H10	RIGA H15	RIGA H25	RIGA V25	Description
-	-	-	PT56418475	Piston Cylinder Lower Packing Set
-	-	-	PT56418472	Piston Cylinder Upper Packing Set
-	-	-	PT56418476	Piston (Upper) Valve Kit
-	-	-	PT56418471	Suction (Lower) Valve Kit
PT84660012	PT84660012	PT84660012	PT84660014	Bellows
PT30090357	PT30090357	PT30090357	-	Bottom Valve Kit
PT84260861	PT84260861	PT84260861	-	Upper Joint
PT30090356	PT30090356	PT30090356	-	U-Cup Seal (pack of 2)

## Replacement Parts - Air Motor

RIGA H10	RIGA H15	RIGA H25	RIGA V25	Description
-	-	-	PT56418626	Air Motor Cylinder Piston Seal
-	-	-	PT56418651	Air Motor Packing Set
PT84260237	PT84260239	PT54250804	-	Air Motor Seal
PT56418611	PT56418611	PT56418611	-	Actuator Shaft Seal Kit
PT56418609	PT56418609	PT56418609	-	Pneumatic Shaft U-Cup Seal (Pack of 2)

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