

# Elcometer Kara Air Operated Double Diaphragm Pumps

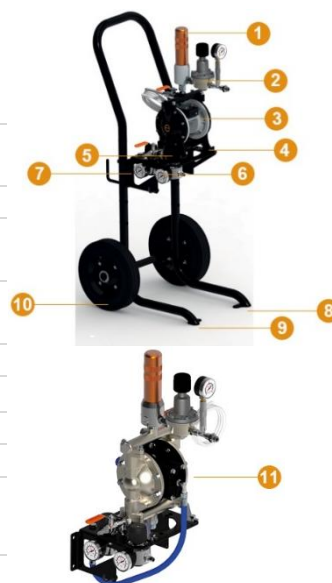


The Elcometer KARA pumps are a range of air operated double diaphragm pumps for conventional air spray applications. Engineered to supply high-quality coating materials for wood, plastic, metal or ceramics.

- Powerful performance**  
 Elcometer Kara's high fluid delivery keeps paint homogenous whilst ensuring more than enough pulse-free flow at the nozzle, even with long fluid hoses up to 30m. In fact, with up to 40 litres per minute maximum free flow, the Elcometer Kara's high performance can supply a second spray gun.
- Durable and hardwearing**  
 Its rugged stainless steel and aluminium construction ensures the Elcometer Kara has low maintenance and a long service life.
- Efficient**  
 With an air consumption of 0.28cfm the Elcometer Kara ensures economical compressor running costs.
- Versatile**  
 Choice of suction hose or product tank, suitable for spraying solvent or waterborne coatings, primers, fillers, stains and lacquers.

## Key features

- Anti-pulse chamber with fluid mesh filter fitted as standard ensures any debris in the paint is filtered before supply to the spray gun
- Fluid regulator included as standard for consistent control of fluid flow and pressure
- Up to 40lpm ensures high fluid circulation to keep paint homogenous
- Rugged stainless steel and aluminium pump construction to handle the most common automotive, industrial and marine paints
- Aerospace grade aluminium change over valve uses metal on metal technology to prevent sticking
- Air pressure regulator for regulating atomizing air to spray gun
- Main system air inlet regulator pump regulator up to 7bar
- Stable footprint of 543 x 527mm
- Heavy duty wheels for easy transportation
- Unbolt the bracket and pump from the trolley to create a wall mounted version with suction hose - weighing up to 12.0kg



## The Elcometer Kara is suitable for use with:

The Elcometer Kara range is suitable for use with Solvent Based and Water Based materials as well a wide range of products.

### Kara 1-30 & Kara 1-40

Single component (1k) epoxies	Single component (1k) polyurethanes	Plural (2k) & multi -component (3k) low viscose polyurethane epoxies <sup>1</sup>
Water based enamel coatings	Solvent-based primer and basecoats	Quick air dry enamel coatings
Metallic-based epoxy coatings	Wood stains	High solid pre-catalysed lacquers
Acid-catalyst wood lacquers	Waterborne lacquers	UV curable epoxies
Water based UV coatings	1k fire-retardant coatings	Natural wood oils
Antimicrobial lacquers	Sealers and undercoats	-

### Kara 1-40A

Inorganic zinc coatings	Stove enamels	Graphene-based materials
Water based ceramic glaze coatings	Abrasive coatings for cosmetic & glass	Vitreous enamel
Vitreous sanitaryware glaze	Industrial porcelain coating	Ceramic tableware glaze

## Upgrade to Elcometer Kara Packages

The Elcometer Kara range is available as a package which includes fluid regulator, filter, air regulation and hose kits, complete with a choice of Sagola pressure fed spray guns.

<b>Elcometer KARA Pumps</b>	<b>Air and Static Hose</b>	<b>Choice of Pressure Fed Spray Guns</b>
The range of Elcometer Kara pumps are available wall or trolley mounted supplied with a fluid regulator and suction hose as standard. Hoppers can be purchased separately.	7.5m Combined Anti-Static Air & Product Hose with Protective Cover for Air Spray (Low Pressure) Systems.	The Elcometer Kara is ideal for use with low pressure fed spray guns such as the Sagola X4100 and Sagola X4100 Ceramic spray gun, the Sagola Mini Xtreme and the Sagola 3300 GTO.

## Technical Specifications

	Kara 1-30	Kara 1-40	Kara 1-40A
Ratio	1 : 1	1 : 1	1 : 1
Maximum fluid particle size**	0.25mm	0.25mm	0.25mm
Fluid temperature range	4.4 - 60°C	4.4 - 60°C	4.4 - 60°C
Fluid inlet size	1/2" BSP Male	1/2" BSP Male	1/2" BSP Male
Fluid outlet size	3/8" BSP Male	3/8" BSP Male	3/8" BSP Male
Compatible Products that can be pumped	Solvent and water-based products	Solvent and water-based products	Solvent and water-based products
<b>Composition of Parts in Contact with Product (Wet)</b>			
Seats	Stainless Steel	Polypropylene	Stainless Steel
Balls	Stainless Steel	PTFE	Stainless Steel
Diaphragm	Polyethylene	PTFE	PTFE
Pump Body / Cylinder Housing	Polyethylene / Aluminium	PTFE / Aluminium	PTFE / Aluminium
Centre Section	-	-	-
Packing Kit (Top)	-	-	-
Packing Kit (Bottom)	-	-	-
<b>External Pump Parts (Dry)</b>			
Pump Body / Cylinder Housing	Polyamide / Aluminium	Polyamide / Aluminium	Polyamide / Aluminium
<b>Air</b>			
Air Pressure Operating Range	1-6bar	1-7bar	1-7bar
Air consumption at 3 bar & 7.5 CPM	1.8lpm	-	-
Air consumption at 3 bar & 16 CPM	-	7.92lpm	7.92lpm

Maximum Air Inlet Pressure	-	7bar	7bar
Air Inlet	1/4" BSP Female	1/4" BSP Female	1/4" BSP Female
Air Exhaust / Silencer Port	1/2" BSP Female	1/2" BSP Female	1/2" BSP Female
Minimum compressor requirements	Contact Elcometer	Contact Elcometer	Contact Elcometer
Ambient Air Temperature Operating Range	4.4 - 60°C	4.4 - 60°C	4.4 - 60°C
<b>Fluid / Product</b>			
Maximum Fluid Outlet Working Pressure	6bar	7bar	7bar
Product Output per Cycle	80cc	165cc	165cc
Maximum Free Flow	30 lpm	40 lpm	40 lpm
Free Flow Delivery @ 60 CPM*	4.8 lpm	10 lpm	10 lpm
<b>Dimensions</b>			
Weight (Pump only)	3.3 kg	4.6 kg	4.8kg
Weight (Wall Mount with Suction Hose)	10.5 kg	11.8 kg	12 kg
Weight (Cart Mount with Suction Hose)	21.7 kg	23 kg	23.2 kg
Weight (Wall Mount with Hopper)	10.6 kg	11.9 kg	12.1 kg
Weight (Cart Mount with Hopper)	21.8 kg	23.1 kg	23.3 kg
Dimensions (Cart Mount)	439 x 498 x 1000mm	439 x 501 x 1015mm	439 x 501 x 1015mm
Dimensions (Wall Mount)	328 x 331 x 563mm	333 x 441 x 630mm	333 x 441 x 630mm

1. With suction hose or deposit and pump output filter.
2. Product Output per Cycle = Fluid Displacement per Cycle
3. Maximum Free Flow is the volume of fluid the pump is able to transfer at maximum speed and at an undefined number of cycles.
4. Maximum values with water as test media.

## Package Selector

Part Number	Pump Configuration						Spray Gun			Transfer Efficiency		
	Wall Mount	Trolley & Wall Mount	Suction Hose	Hopper Fed	7.5m Air & Product Hose	Anti-pulse chamber	Sagola X4100 Pressure Spray Gun*	Needle & Nozzle Size (mm)	Aircap	Conventional	HVLP	High Transfer Efficiency (Compliant)
<b>Kara 1-30</b>												
KA130-X41-76512		■	■	■	■	■	■	1.2	765	■		
KA130-X41-XT0312		■	■	■	■	■	■	1.2	XT03		■	
KA130-X41-XT01B12		■	■	■	■	■	■	1.2	XT01B			■
KA130W-X41-76512	■		■	■	■	■	■	1.2	765	■		
KA130W-X41-XT0312	■		■	■	■	■	■	1.2	XT03		■	
KA130W-X41-XT01B12	■		■	■	■	■	■	1.2	XT01B			■
<b>Kara 1-40</b>												
KA140-X41-76512		■	■	■	■	■	■	1.2	765	■		
KA140-X41-XT0312		■	■	■	■	■	■	1.2	XT03		■	
KA140-X41-XT01B12		■	■	■	■	■	■	1.2	XT01B			■
KA140W-X41-76512	■		■	■	■	■	■	1.2	765	■		
KA140W-X41-XT0312	■		■	■	■	■	■	1.2	XT03		■	
KA140W-X41-XT01B12	■		■	■	■	■	■	1.2	XT01B			■
<b>Kara 1-40A</b>												
KA140A-C41-XT0314TC		■	■	■	■	■	■	1.4	XT03		■	

\*Elcometer Kara 1-40A is supplied with a Sagola X4100 Xtreme Ceramic Pressure Spray Gun and Tungsten Carbide Needle & Nozzle Kit

## Part Numbers

Elcometer Kara 1-30 Double Diaphragm Air Spray Pump



Part Number: PSD130AS-T

Elcometer Kara 1-40 Double Diaphragm Air Spray Pump



Part Number: PSD140AS-T

Elcometer Kara 1-40A Double Diaphragm Air Spray Pump for Abrasive Materials



Part Number: PSD140AAS-T

Elcometer Kara 1-30 Double Diaphragm Air Spray Pump - Wall Mount Only



Part Number: PSD130AS-W

Elcometer Kara 1-40 Double Diaphragm Air Spray Pump - Wall Mount Only



Part Number: PSD140AS-W

Elcometer Kara 1-40A Double Diaphragm Air Spray Pump for Abrasive Materials - Wall Mount Only



Part Number: PSD140AAS-W

Elcometer Kara 1-30 Trolley & Wall Mount Double Diaphragm Air Spray Pump supplied with Sagola X4100 Pressure Spray Gun, 765 Aircap - 1.20 Needle & Nozzle Kit



Part Number: KA130-X41-76512

Elcometer Kara 1-30 Trolley & Wall Mount Double Diaphragm Air Spray Pump supplied with Sagola X4100 Pressure Spray Gun, XT03 Aircap - 1.20 Needle & Nozzle Kit

Part Number: KA130-X41-XT0312



Elcometer Kara 1-30 Trolley & Wall Mount Double Diaphragm Air Spray Pump supplied with Sagola X4100 Pressure Spray Gun, XT01B Aircap - 1.20 Needle & Nozzle Kit

Part Number: KA130-X41-XT01B12



Elcometer Kara 1-30 Wall Mount Only Double Diaphragm Air Spray Pump supplied with Sagola X4100 Pressure Spray Gun, 765 Aircap - 1.20 Needle & Nozzle Kit

Part Number: KA130W-X41-76512



Elcometer Kara 1-30 Wall Mount Only Double Diaphragm Air Spray Pump supplied with Sagola X4100 Pressure Spray Gun, XT03 Aircap - 1.20 Needle & Nozzle Kit

Part Number: KA130W-X41-XT0312



Elcometer Kara 1-30 Wall Mount Only Double Diaphragm Air Spray Pump supplied with Sagola X4100 Pressure Spray Gun, XT01B Aircap - 1.20 Needle & Nozzle Kit

Part Number: KA130W-X41-XT01B12



Elcometer Kara 1-40 Trolley & Wall Mount Double Diaphragm Air Spray Pump supplied with Sagola X4100 Pressure Spray Gun, 765 Aircap - 1.20 Needle & Nozzle Kit

Part Number: KA140-X41-76512



Elcometer Kara 1-40 Trolley & Wall Mount Double Diaphragm Air Spray Pump supplied with Sagola X4100 Pressure Spray Gun, XT03 Aircap - 1.20 Needle & Nozzle Kit

Part Number: KA140-X41-XT0312



Elcometer Kara 1-40 Trolley & Wall Mount Double Diaphragm Air Spray Pump supplied with Sagola X4100 Pressure Spray Gun, XT01B Aircap - 1.20 Needle & Nozzle Kit

Part Number: KA140-X41-XT01B12



Elcometer Kara 1-40 Wall Mount Only Double Diaphragm Air Spray Pump supplied with Sagola X4100 Pressure Spray Gun, 765 Aircap - 1.20 Needle & Nozzle Kit

Part Number: KA140W-X41-76512



Elcometer Kara 1-40 Wall Mount Only Double Diaphragm Air Spray Pump supplied with Sagola X4100 Pressure Spray Gun, XT03 Aircap - 1.20 Needle & Nozzle Kit

Part Number: KA140W-X41-XT0312



Elcometer Kara 1-40 Wall Mount Only Double Diaphragm Air Spray Pump supplied with Sagola X4100 Pressure Spray Gun, XT01B Aircap - 1.20 Needle & Nozzle Kit

Part Number: KA140W-X41-XT01B12



Elcometer Kara 1-40A Trolley & Wall Mount Double Diaphragm Air Spray Pump supplied with Sagola 4100 Xtreme Ceramic Pressure Spray Gun, XT03 Aircap - 1.40 Tungsten Carbide Needle & Nozzle Kit

Part Number: KA140A-C41-XT0314TC



Elcometer Kara 1-40A Wall Mount Only Double Diaphragm Air Spray Pump supplied with Sagola 4100 Xtreme Ceramic Pressure Spray Gun, XT03 Aircap - 1.40 Tungsten Carbide Needle & Nozzle Kit

Part Number: KA140AW-C41-XT0314TC



## Accessories

Anti-static Air Hose - 2.5m Ø 6x12mm

Part Number: 56414014



Anti-static Air Hose - 6m Ø 8x15mm

Part Number: 56414024





Anti-static Air Hose - 11m Ø 8x15mm

Part Number: 56414025



Anti-static Air Hose - 16m Ø 8x15mm

Part Number: 56414027



Anti-static Air Hose - 26m Ø 8x15mm

Part Number: 56414026



1.8m Covered Anti-Static Air & Nylon Product Hose

Part Number: PT56414130



5m Covered Anti-Static Air & Nylon Product Hose

Part Number: PT56414039



7.5m Covered Anti-Static Air & Nylon Product Hose

Part Number: PT56414044



10m Covered Anti-Static Air & Nylon Product Hose

Part Number: PT56414040



15m Covered Anti-Static Air & Nylon Product Hose

Part Number: PT56414041



20m Covered Anti-Static Air & Nylon Product Hose

Part Number: PT56414042



Anti-static Air Hose - 21m Ø 8x15mm



Part Number: PT56414028

Hopper Kit & Product Filter



Part Number: PT30090399

6m Thermo Rubber Product Hose with 3/8" Female Connection



Part Number: PT56414116

11m Thermo Rubber Product Hose with 3/8" Female Connection



Part Number: PT56414117

16m Thermo Rubber Product Hose with 3/8" Female Connection



Part Number: PT56414115

21m Thermo Rubber, ID: 8mm x OD: 16mm with 3/8" Female Connection



Part Number: PT56414118

26m Thermo Rubber, ID: 8mm x OD: 16mm with 3/8" Female Connection



Part Number: PT56414119