

**BINKS Maple Pumps are air operated horizontal piston pumps for supplying solvent and waterborne paints, solvents and other suitable materials.**

These 15 and 25:1 ratio paint pumps have been specifically developed to meet the needs and demands of the Industrial finishing market to supply smooth and consistent material flow to automatic and manual spray guns.

The pump design combines an energy efficient air motor with twin low shear fluid sections producing a reciprocating motion by using high technology ground steel spool and sleeve air valves to control the air motor reversal, providing a very even and virtually surge free paint delivery. The Binks patented air valve design utilises magnetic detents for the main air valves thus removing the possibility for a stall condition. The air motor also utilises the patented Binks Low Ice quick exhaust technology to prevent air valve freezing conditions when high cycle speeds are employed.

Equal thrust on each stroke due to the horizontal configuration incorporating the dual piston rod design gives a balanced fluid pressure output and reduces fluid pressure fluctuations to an absolute minimum.

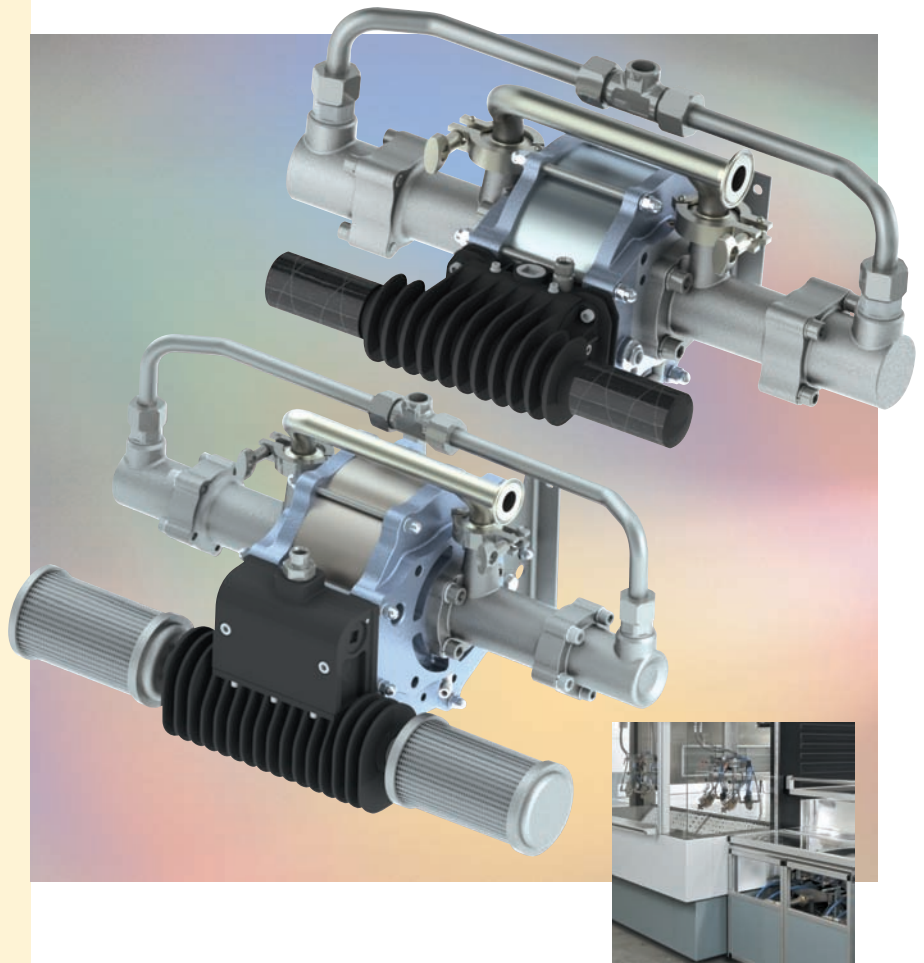
The pump features twin exhaust mufflers to control exhaust noise to a minimum. An adapter kit is available to facilitate connection to a remote exhaust system if required.

#### **Markets and Applications:**

- Air Assisted Airless and Airless paint supply
- Wood finishing flat line machines
- Rotary Finishing machines
- Most types of Automatic spray machines
- Multi gun and automatic gun supply
- Circulating systems

#### **Typical materials and coating types:**

- Ultra Violet (UV) cure coatings
- Moisture sensitive materials
- Solvent and waterborne materials
- Catalysed spray coatings
- Stains, Varnish and lacquers
- Sealers and undercoats
- High solid coatings
- Abrasive materials



# BINKS®

## **Maple 7/15 and Maple 8/25 Air Driven Paint Pumps**

- Low Ice – lubricant free Air Motor with quick exhaust technology (Patent) removes the risk of valve icing.
- Bellows seals – no exposed shaft seals eliminating the need for maintenance and lubrication of the shaft packing
- Stainless steel fluid sections – ideal for waterborne, solvent based and UV materials
  - Tungsten carbide ball seats and Ceramic-Coated pistons ensure maximum operating life
  - Equal thrust on each stroke – produces smooth and even paint flow
  - Control valve metal spool and sleeve for long life, incorporating magnetic detent to eliminate stall condition (Patented design)
- Sanitary inlet and 1/2" NPT Female outlet manifolds guarantee a smooth internal flow, eliminates paint entrapment for superior flushing
- 5 year pump warranty on materials and workmanship.





### Maple 7/15 Air Driven Pump - Part No. 104041

Specification	
Continuous cycle rate (max)	20 cycles/min (3.5 L.P.M.)
Intermittent cycle rate (max)	40 cycles/min (7 L.P.M.)
Fluid volume/cycle	0.047 US Gal/0.175 Litre
Equivalent flow at 60 cycles / min	2.8 US Gal/ 10.5 Litre
Air volume/cycle	0.33 scfm (9.5 L/m) @ 45 psi (3.1 bar)
Air volume/cycle	0.65 scfm (18.5 L/m) @ 90 psi (6.2 bar)
15 cycles/min	10 scfm (283 L/m) @ 90 psi (6.2 bar)
30 cycles/min	20 scfm (566 L/m) @ 90 psi (6.2 bar)
Ratio	15:1
Air Inlet Pressure	15 -90 psi / 1- 6.2 bar
Air Inlet size	3/8" BSP/NPS
Fluid Inlet fitting	1" Sanitary
Fluid Outlet fitting	1/2" NPT Female
Length / Width / Height (mm)	560 / 350 / 271
Weight	30 kg / 66 lbs

### Maple 8/25 Air Driven Pump - Part No. 104042

Specification	
Continuous cycle rate (max)	20 cycles/min (4 L.P.M.)
Intermittent cycle rate (max)	40 cycles/min (8 L.P.M.)
Fluid volume/cycle	0.053 US Gal/0.2 Litre
Equivalent flow at 60 cycles / min	3.2 US Gal/ 12 Litre
Air volume/cycle	0.7 scfm (19.8 L/m) @ 45 psi (3.1 bar)
Air volume/cycle	1.4 scfm (39.7 L/m) @ 90 psi (6.2 bar)
15 cycles/min	21 scfm (595 L/m) @ 90 psi (6.2 bar)
30 cycles/min	42 scfm (1190 L/m) @ 90 psi (6.2 bar)
Ratio	25:1
Air Inlet Pressure	15-90 psi / 1- 6.2 bar
Air Inlet size	1/2" BSP/NPS
Inlet fitting	1" Sanitary
Outlet fitting	1/2" NPT Female
Length / Width / Height (mm)	654 / 358 / 337
Weight	40 kg (88lbs)

#### Accessories for Maple Pumps

192009	1" Sanitary clamp
192206	1" Sanitary gasket
192779	Exhaust Tube adapter - 1" NB
192803	1" Manifold plug
192820	Exhaust Tube adapter - 1 1/4" NB
193275	1" Sanitary - 3/4" NPTF Adaptor
250653	Fluid Section Seal and O-ring Kit for 8/25 & 7/15
250656	Air Motor Seal and O-ring Kit for 8/25
250657	Air Motor Seal and O-ring Kit for 7/15
502732	Air Control Kit for 7/15
502733	Air Control Kit for 8/25
502734	Pump Outlet Filter Kit for 7/15 & 8/25
502735	25L Suction Lance & Filter Kit for 7/15 & 8/25

### Binks Maple Pumps for an Efficient and Environmentally Friendly Paint Supply System

#### Features of the BINKS Maple 7/15 and 8/25 Air Driven Pump's

- No external seals or packings
- Handles almost any material including UV
- High quality materials as Standard
  - ✓ Ceramic-Coated pistons
  - ✓ Tungsten carbide seats
- Minimum Maintenance and a 'Run to failure' operation
- Minimum wear parts.

#### PLUS

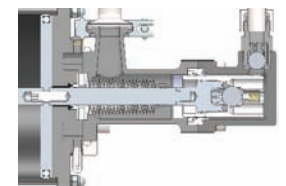
- One Piston seal to handle all materials
- Heavy duty bellows as standard
- Tungsten carbide seats as standard
- Low ice Air motor – no stalling
- Stainless Steel fluid section
- Ceramic-Coated pistons
- Low shear flow through pistons
- Piston never leaves the seal.



Bellows verified and tested for over 10 Million cycles



Maple Air Valve with Low-Ice quick exhaust technology



Fluid section showing easy access to paint piston seals



Binks Maple pump pistons are Ceramic-Coated – which is the most durable surface available. Resisting wear from highly abrasive fluids whilst reducing friction and extending the pump packing life cycle. Binks Ceramic-Coating is the ultimate choice for sliding components in pumps. More information on the benefits and advantages of Binks Ceramic-Coating is available upon request.



**For more technical information please refer to the Maple Pumps Service Bulletin**

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