



**AIRMIX® PUMP  
& AIRSPRAY PUMP  
WITH DIFFERENTIAL AIR MOTOR  
OPERATING PRINCIPLE AND START-UP**

**TRANSLATION FROM THE ORIGINAL MANUAL**

***IMPORTANT : Before assembly and start-up, please read and clearly understand all the documents relating to the equipment (professional use only).***

THE PICTURES AND DRAWINGS ARE NOT CONTRACTUAL. WE RESERVE THE RIGHT TO MAKE CHANGES WITHOUT PRIOR NOTICE.

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## 1. OPERATING PRINCIPLE

The pump (A) consists of :

- an alternating air motor (B),
- an hydraulic section (C) mechanically coupled to the air motor (B).

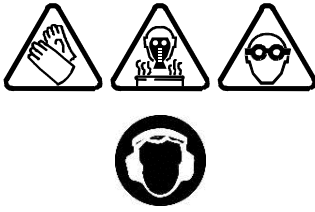
The air motor is supplied with compressed air by means of the regulator (D) (pantone 382 colour knob or red knob). The pressure is read on the gauge (E).

During its alternating movement, the air motor drives the piston of the hydraulic section (C). The fluid is drawn in (L) and forced under pressure in (N). Due to its design, this pressure is always the one read on the gauge (E) x pump ratio.

The spray air pressure of the gun is adjusted by means of the regulator (black or grey knob) (F) and the pressure can be read on the gauge (G).

- To adjust the fluid flow rate, turn the pantone 382 colour knob or red knob (D) - (Gauge E).
- To adjust the spray air, turn the black knob or grey knob (F) - (Gauge G).

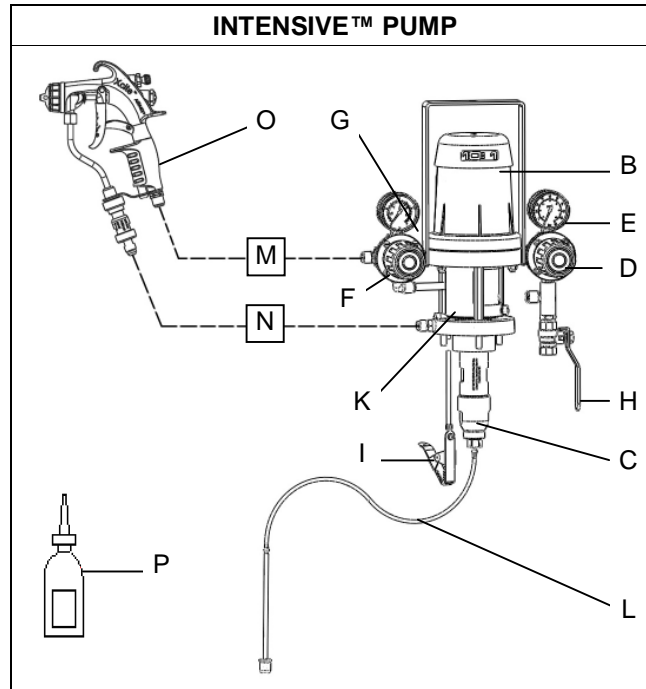
## 2. START-UP



Protective clothing (gloves, protective masks, glasses, hearing protective earplug, protective clothing) should be worn to comply with the recommendations.

The working area must be correctly ventilated.

### 2-1 FILLING



#### Captions :

A	Intensive™ pump (B + C)	K	Spring or protection carter
B	Motor	L	Suction rod
C	Fluid section	M	Air static (static conductor)
D	'MOTOR AIR' regulator	N	HP fluid section
E	Gauge	O	AIRMIX® gun or airspray gun
F	'GUN AIR' regulator	P	T lubricant (125 ml / 4.4 oz)
G	Gauge		
H	Air inlet valve		
I	Ground		

(For specific installation, please contact your KREMLIN REXSON representative).

**Guards (air motor cover, coupling shields, housings ...) have been designed for safe use of the equipment.**  
**The manufacturer will not be held responsible for bodily injury or failure and / or damage to property due to removal or partial removal of the guards**

**Start up procedure :**

- 1 - Ground the pump.
- 2 - **If the pump is an Intensive™ one, fill the wetting cup (S) with T lubricant (P) or with an appropriate cleaning solvent.**
- 3 - Unscrew the air regulators (D and F).
- 4 - Interconnect the equipment with the air pressure network (clean and dry air - P < 6 bar / 87 psi). Install a water drop, model 3/8 if it is necessary.
- 5 - Connect all the hoses (air hose and fluid hose) as well as the gun (O).
- 6 - Remove the gun air cap by unscrewing the cap ring and nozzle (only in case of an Airmix® gun).

■ **FLUSHING WITH SOLVENT**

- 7 - Immerse suction rod (L) into material container.
- 8 - Open pump air pressure valve (H).
- 9 - Point the spray gun, not supplied with air, towards the material container and press the trigger.
- 10 - Increase **gradually** the air regulator (D) so that the pump runs slowly (Pressure between 0.5 and 1 bar / 7.25 to 14.5 psi). When material flows out regularly, release the trigger.

■ **PRIMING WITH MATERIAL**

- 11 - Remove suction rod (L) from material container and immerse it in a solvent-filled container (take all appropriate precautions in the presence of flammable solvents).
- 12 - Point the spray gun, not supplied with air, towards the material container and trigger the gun until the material flows out regularly.

■ **WORK**

- 13 - Reinstall the ring, the aircap and the nozzle (only in case of an Airmix® gun) on gun.
- 14 - Adjust air regulator (D) to get the appropriate material pressure and flow rate.
- 15 - **Gradually** open air regulator (F) to adjust spraying air to obtain the required spray pattern.

**2-2 PUMP SUPPLIED IN GRAVITY**

➡ **CAUTION: The pumps can be supplied in gravity but not in filling.**

Interconnect the pump fluid inlet with the gravity cup supply hose and start up the pump as previously indicated.

### 3. SHUTDOWN AT THE END OF THE WORK

#### ▪ SHORT DURATION SHUTDOWN

- 1 - Decrease the material pressure of air regulator (D) until reading **0 bar / 0 psi** on gauge (E).
- 2 - Trigger the gun to depressurize the system.
- 3 - Unscrew the gun air regulator (F) or disconnect the gun air inlet.
- 4 - Remove the gun air cap and the nozzle (only in case of an Airmix® gun) of the spray gun and soak it into solvent.

#### ▪ LONG DURATION SHUTDOWN

- 1 - Decrease the material pressure of air regulator (D) until reading **1 bar / 14.503 psi** on gauge (E).
- 2 - Unscrew the gun air regulator (F) or disconnect the gun air inlet.
- 3 - Remove the gun air cap and the nozzle (only in case of an Airmix® gun) from the spray gun and soak it into solvent.
- 4 - Remove the suction rod from the material container and immerse it in a solvent-filled container. Take all the appropriate precautions in the presence of flammable solvents.
- 5 - Point the gun towards the container and trigger the gun. When the solvent flows out, point the gun towards the recovery container.
- 6 - When the solvent flows out clean, release the gun trigger.

**Nota : If the pump is an Intensive™ one, release the spray gun trigger when the pump piston is in a low position. To prevent from damaging the seals when starting once again the pump, the piston must be immersed into solvent.**

- 7 - Fully unscrew the air regulator (D) and shut off the compressed air valve (valve H).
- 8 - Trigger the spray gun to decompress the hoses. Therefore, the pump and the hose remain filled with solvent at the atmospheric pressure.

### 4. SAFETY DEVICE

**Guards (air motor cover, coupling shields, housings ...) have been designed for safe use of the equipment.  
The manufacturer will not be held responsible for bodily injury or failure and / or damage to property due to removal or partial removal of the guards**

AIRMIX® pump : A relief-valve (setting : 6.5 bar / 94 psi) is fitted on the pump air motor - thus protecting this one from an overpressure which could damage it.