

# S 50 Airless

High pressure eccentric screw spraying system

S 50 Airless 230V/50Hz - 2.2 kW  
1106052



A safety pressure gauge and pressure sensor are connected directly to the electrical panel for full control during work.



Useful side toolbox.

## Description

Equipped with an eccentric screw pump without valves. It is a compact, light and easy to use machine.

The control panel is simple and intuitive. The exclusive IMER A1 inverter constantly monitors the pressure and automatically compensates the wear of the stator resolving differences in fluidity between one mixture and another. Homogeneous spraying is always guaranteed.

Maintenance is reduced only to the replacement of the rotor-stator unit, which can be carried out by the user directly on site.

Suitable for spraying the following products:

- Filling stuccos
- Stucco paste
- Water-based coatings
- Intumescent paints
- Washable paints and tempera
- Water repellent paints
- Anti-corrosion products

S 50 Airless is simple and versatile. The dual control and management software allows two modes of use:

- "A" mode ("Airless pump")
- "N" mode ("No Limits")

With "N" mode set, S 50 Airless has the same functionality as Small 50 EVO, but with superior performance.

## Operation

The product is poured into the large hopper, sucked by the eccentric screw pumping system without valves and pushed into the pipe up to the IAG19 gun, which can be equipped with different types of nozzle to optimize spraying according to the type of material used.

The "Start & Stop" system can be operated directly from the IAG19 gun, without additional electrical cables.

It allows you to completely stop the machine at each stop and resume work simply by holding the gun.

The exclusive IMER A1 inverter allows to set the pumping speed and store the optimal operating pressure.

During use, the previously set pressure will remain constant, compensating for stator wear and small differences in fluidity between one mixture and another.

The display indicating the pump speed and operating pressure also has a diagnostic function, capable of immediately signaling any changes during use and the relative intervention methods.

Thanks to the exclusive Imer A1 inverter, the machine can work with suitably sized generators.



Practical supports for winding the hose during storage.



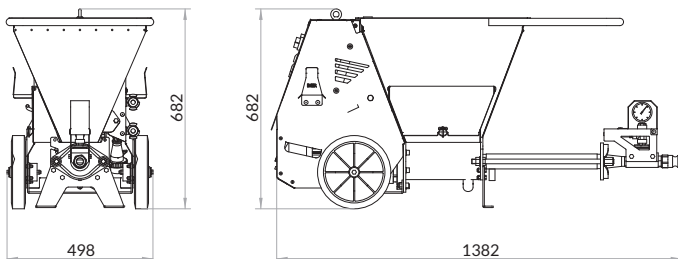
250 mm oversized wheels and lifting handles for easy handling.

### Standard Equipment

|   |
|---|
| Control panel with exclusive IMER A1 self-diagnostic inverter |
| Spray gun IAG19   |
| Nozzle kit  |
| Filters for gun IAG19 Green and White                         |
| Cleaning kit for gun and nozzles                              |
| Pressure sensor   |
| Safety pressure gauge   |
| Lifting hook  |
| Integrated lifting handles                                    |
| 50 l hopper in stainless steel                                |
| Accessory box incorporated in the frame                       |
| Stator and Rotor 4N 13S 120 bar                               |
| Airless hose 1/2" 20 m  |
| Power cable 20 m  |

### Technical data

|  |       | Airless       |
|--|-------|---------------|
| Supply                                       | -     | 230V/50Hz     |
| Maximum installed power                      | kW    | 2.2           |
| Maximum absorption                           | A     | 9.5           |
| Eccentric screw turns                        | rpm   | 37-228        |
| Max. pressure                                | bar   | 120           |
| Max. nozzle size                             | in    | 0.045         |
| Maximum capacity*                            | l/min | 8.5           |
| Pumping distance*                            | m     | 30            |
| Pipe nominal diameter                        | mm    | 13            |
| Maximum pumping height*                      | m     | 30            |
| Hopper capacity                              | l     | 50            |
| Loading height                               | mm    | 650           |
| Sound pressure level                         | dB(a) | <75           |
| Wheel dimensions                             | mm    | 250           |
| Dimensions width / length / h                | mm    | 498/1382/682  |
| Machine weight                               | kg    | 75            |
| Packed machine dimensions width / length / h | mm    | 550/1250/1100 |
| Packed machine weight                        | kg    | 120           |



(\* The distance, the pumping height and the flow rate of the material are characteristics subject to variations that may concern: the type of material used, the consistency of the material, the diameter of the pipes, the type of pump installed and the nozzle used.

# Accessories **S 50 Airless** | mode “A”

|                |  |   |                |  |                             |
|----------------|--|---|----------------|--|-----------------------------|
| <b>1107220</b> |   | Stator 4N13S Orange   | <b>1107644</b> |    | Nozzle 617 (paints)         |
| <b>1107221</b> |   | Rotor 4N13S   | <b>1107645</b> |    | Nozzle 619 (paints)         |
| <b>1107643</b> |   | IAG19 gun without nozzles   | <b>1107646</b> |    | Nozzle 531 (stuccos)        |
| <b>1107658</b> |   | IAG19 gun cleaning kit Needles for nozzles and brush for gun cleaning | <b>1107647</b> |    | Nozzle 543 (stuccos)        |
| <b>1107650</b> |   | 10 pcs kit green filter for nozzles 252, 335, 543, 531 (stuccos)      | <b>1107648</b> |    | Nozzle 252 (stuccos)        |
| <b>1107651</b> |  | 10 pcs kit white filter for nozzles 617/619 (paints)                  | <b>1107649</b> |   | Nozzle 335 (stuccos)        |
|                |  |   | <b>1107652</b> |    | Ring for 7/8" thread nozzle |
|                |  |   | <b>1107653</b> |   | 1/2" airless hose 10 m      |
|                |  |   | <b>1107654</b> |  | 1/2" airless hose 20 m      |

# **S 50 Airless** | mode “N” No Limits



Products applicable in “No Limits” mode with the use of optional accessories:

- Traditional lime / cement plasters
- Premixed / pre-dosed plasters based on cement and lime
- Premixed / pre-dosed structural plasters
- Premixed / pre-dosed restorative plasters
- Binders / mortars for consolidation injections
- Insulating plasters based on polystyrene or cork
- Thixotropic fiber-reinforced mortars for reinforcement
- Shotcrete fillers
- Self-levelling cement / anhydride based screeds
- Mortars for grouts / stuccos
- All free solvent paints
- Adhesives for thermal insulation coatings
- Smoothing plasters
- Smoothers for decorative finishing with silicates or minerals
- Waterproofing
- Fireproofing mortars

It can be used in combination with any type of external mixer:

- Planetary mixer series “MIX”
- Continuous mixer “SPIN” series
- Concrete mixer series “SYNTESI”, “MINIBETA” or “RIOBETA”

| Technical data                          |       | No Limits     |
|---|-------|---------------|
| Supply                                  | -     | 230V 50Hz     |
| Gearmotor                               | kW    | 2.2           |
| Maximum absorption                      | A     | 9.5           |
| Eccentric screw turns                   | rpm   | 37-320        |
| Pressure (based on stator)              | bar   | 15-25         |
| Grain size (based on stator)*           | mm    | 3 - 6         |
| Maximum flow (based on stator)*         | l/min | 1.2 - 26      |
| Pumping distance                        | m     | 35            |
| Pipe nominal diameter                   | mm    | 25-35         |
| Maximum pumping height*                 | m     | 20            |
| Hopper capacity                         | l     | 50            |
| Loading height                          | mm    | 650           |
| Sound pressure level                    | dB(a) | <76           |
| Wheel dimensions                        | mm    | 250           |
| Dimensions width / length / h           | mm    | 498/1382/682  |
| Machine weight                          | kg    | 75            |
| Packaging dimensions width / length / h | mm    | 550/1250/1100 |
| Packed machine weight                   | kg    | 120           |

(\* The values indicated are subject to variations based on the characteristics of the materials used, their consistency, the type of stator / rotor installed and the size of the pipe used.

# Recommended setups for specific uses **S 50 Airless** | mode “N” No Limits

## BASIC KIT for use in “N” mode

1107663



### Accessory kit for series “D” stators application on S 50 Airless

Essential to use all the kits available for the “S 50 No Limits” mode

- Material outlet flange with camlock connection DN35 F
- Pressure gauge unit for DN 35 pipes Camlock fitting DN 35F / DN 35M
- Flange tie rods
- Small 50 EVO transmission rod
- Camlock adapter DN35 DN25 FF



1106052 S 50 Airless  
230V/50Hz - 2.2 kW

N1

➔ Recommended for:

- Traditional lime / cement plasters
- Premixed / pre-dosed plasters based on cement and lime (without vibrating grid)
- Premixed / pre-dosed structural plasters (without vibrating grid)
- Premixed / pre-dosed restorative plasters (without vibrating grid)
- Fiber-reinforced reinforcement mortars (without vibrating grid)
- Insulating plasters based on polystyrene or cork (without vibrating grid)
- Mortars for fire protection (without vibrating grid)
- Fillers (without compressor and spray gun)

1107577 Spray gun DN 35 mm

1107543 IM250 compressor

1107510 Vibrating grid

1107528 Pipe Dn 35 l10 m

1107531 Air hose Dn 13 l10 m

1107030 Stator D8 1.5 (green)

1107031 Rotor D8 1.5 (green)

1107520 10 pieces sponge kit for cleaning hose Ø 35

|                         |       |    |
|-------------------------|-------|----|
| Maximum installed power | kW    | 3  |
| Maximum grain size      | mm    | 6  |
| Max pressure            | bar   | 15 |
| Maximum material flow*  | l/min | 26 |
| Pumping distance*       | m     | 35 |
| Maximum pumping height* | m     | 20 |
| Pipe diameter           | mm    | 35 |

(\*) The values indicated are subject to variations based on the characteristics of the materials used, the consistency and their grain size.



1106052 S 50 Airless  
230V/50Hz - 2.2 kW

N2

➔ Recommended for:

- Traditional lime / cement plasters
- Premixed / pre-dosed plasters based on cement and lime (without vibrating grid)
- Premixed / pre-dosed structural plasters (without vibrating grid)
- Premixed / pre-dosed restorative plasters (without vibrating grid)
- Fiber-reinforced reinforcement mortars (without vibrating grid)
- Insulating plasters based on polystyrene or cork (without vibrating grid)
- Mortars for fire protection (without vibrating grid)
- Fillers (without compressor and spray gun)

1107540 Spray gun DN 25 mm

1107543 IM250 compressor

1107510 Vibrating grid

1107525 Pipe DN25 l 15 m

1107532 Air hose DN 13 l 16 m

1107084 Stator D5-2.5 Clamp (Purple)

1107085 Rotor D8 1.5 mono (Purple)

1107519 10 pieces sponge kit for cleaning hose Ø 25

|                         |       |    |
|-------------------------|-------|----|
| Maximum installed power | kW    | 3  |
| Maximum grain size      | mm    | 3  |
| Max pressure            | bar   | 25 |
| Maximum material flow*  | l/min | 17 |
| Pumping distance*       | m     | 25 |
| Maximum pumping height* | m     | 15 |
| Pipe diameter           | mm    | 25 |

(\*) The values indicated are subject to variations based on the characteristics of the materials used, their consistency and grain size.



# Recommended setups for specific uses **S 50 Airless** | mode “N” No Limits



**1106052** S 50 Airless  
230V/50Hz - 2.2 kW

**N3**

- ➔ Recommended setup for:
- Adhesives for thermal insulation coatings
  - Smoothing compounds for plaster
  - Waterproofing
  - Smoothers for decorative finishing with silicates or other minerals

Maximum installed power 4.4 kW

**1107010** Smoothing and grouting kit

- Spray gun
- 1 set of deflectors Ø5-Ø6-Ø8-Ø12 mm
- 1 deflector with hose connection Ø16
- 10 + 5 m material holder hose Ø 25 with cam couplings
- 16 m air hose Ø 13 with Geka couplings
- 1 nozzle cleaner and 1 sponge Ø 30



**1107610**



C400 piston compressor  
230V / 50Hz 2.2 kW

**1107513**



Hopper cover

**1108008**



Remote control 16 m for  
A1 panel

**1107084**



Stator D 5-2.5 MONO CLAMP  
• Color: purple  
• Maximum grain size 3 mm  
• Flow rate (l / min) 2.3 - 17  
• Pressure 25 bar

**1107085**



Rotor D 5-2.5  
PURPLE



**1106052** S 50 Airless  
230V/50Hz - 2.2 kW

**N4**

- ➔ Recommended setup for:  
Pressure-controlled consolidation injections

Maximum installed power 2.2 kW

**1108005** Injection kit for A1 panel

- Pressure meter and pressure switch unit
- Reduction M. 1" F. 3/4" in brass
- Small 50 gun with 1 deflector hose connection Ø 16
- 10 m material holder hose Ø 25 with cam couplings
- 5 m material holder hose Ø 25 with cam couplings
- 1 nozzle cleaner and 1 sponge Ø 30



**1108008**



Remote control 16 m for  
A1 panel

**1107084**



Stator D 5-2.5 MONO CLAMP  
• Color: purple  
• Maximum grain size 3 mm  
• Flow rate (l / min) 2.3 - 17  
• Pressure 25 bar

**1107085**



Rotor D 5-2.5  
PURPLE



**1106052** S 50 Airless  
230V/50Hz - 2.2 kW

**N5**

- ➔ Recommended setup for:  
Mortars for grouts / stuccos

Maximum installed power 2.4 kW

**1108008**



Remote control 16 m for  
A1 panel

**1107499**



Conical joint gun  
• Sectionable steel tube to get the desired exit diameter.  
• Anti-spill valve

**1107525**



Hose material delivery Ø 25 -  
15 m with cam couplings

**1107016**



Internal vibrating hopper  
220V / 50-60Hz

**1107032**



Stator D 4-1/2 CLAMP  
• Color: lemon yellow  
• Pressure (bar) 25  
• Maximum grain size (mm) 3  
• Flow rate (l / min) 1.2 - 9

**1107033**



Rotor D 4-1/2  
LEMON YELLOW

**A**



➔ Recommended setup for:

- Traditional lime / cement plasters
- Premixed / pre-dosed plasters based on cement and lime
- Premixed / pre-dosed structural plasters
- Premixed / pre-dosed restorative plasters
- Thixotropic fiber-reinforced mortars for reinforcement
- Insulating plasters based on polystyrene or cork
- Fire proofing mortars

**Premixed / traditional mortar kit**

- Spray gun
- Deflectors Ø 12 for traditional
- Deflectors Ø 10-14 for premixed products
- 15 m material holder hose Ø 25 with cam couplings
- 16 m air hose Ø 13 with Geka couplings
- 1 nozzle cleaner
- 1 sponge Ø 30

**1107005**

**B**



➔ Recommended setup for:

- Mortars for grouts / stuccos
- Adhesives for thermal insulation coatings
- Smoothing compounds for plaster
- Smoothers for decorative finishing with silicates or minerals
- Waterproofing
- Solvent-free paints

**Smoothing and grouting kits**

- Spray gun
- 1 set of deflectors Ø5-Ø6-Ø8-Ø12 mm
- 1 deflector with hose connection Ø16
- 10 + 5 m material holder hose Ø 25 with cam couplings
- 16 m air hose Ø 13 with Geka couplings
- 1 nozzle cleaner and 1 sponge Ø 30

**1107010**

**C**



➔ Recommended setup for:

- Binders / mortars for consolidation injections at controlled pressure

**Injection kit for panel A1**

- Pressure control group with adjustable pressure switch 0.5-5 bar
- Small 50 gun with 1 hose holder deflector Ø 16
- 10 m material holder hose Ø 25 with cam couplings
- 5 m material holder hose Ø 25 with cam couplings
- 1 nozzle cleaner and 1 sponge Ø 30

**1108005**

**D**



➔ Recommended setup for:

- Solvent-free paints

**Painting kit**

- Spray gun + deflectors Ø5-Ø6
- 10 m material holder hose Ø 19 with cam couplings
- 16 m air hose Ø 13 with Geka couplings
- 1 nozzle cleaner and 1 sponge Ø 25
- Specific couplings for piping connection

**1107009**

# Kits and accessories for customized setups **S 50 Airless** | mode "N" No Limits

## Electric diaphragm compressor

➔ Recommended for:

- Traditional lime / cement plasters
- Premixed / pre-dosed plasters based on cement and lime
- Premixed / pre-dosed structural plasters
- Premixed / pre-dosed restorative plasters
- Thixotropic fiber-reinforced mortars for reinforcement
- Insulating plasters based on polystyrene or cork
- Fire proofing mortars

1107543



IM250 electric membrane compressor  
230V / 50 Hz 250 l / min. 0.75 kW

## Piston compressor

➔ Recommended for:

- Adhesives for thermal insulation coatings
- Smoothing compounds for plaster
- Smoothers for decorative finishing with silicates or minerals
- Waterproofing, even fiber-reinforced
- Solvent-free paints

1107610



Piston compressor C400  
230V / 50 Hz 2.2 kW

## Vibrating grid

➔ Recommended for:

- Traditional products packed on site

1107510



Vibrating grid 230V / 50-60 Hz 0.2 kW

## Internal vibrating hopper

➔ Recommended for:

- Mortars for grouts / stuccos

1107016



Internal vibrating hopper  
220V / 50-60 Hz 0.2 kW

## Hopper cover

➔ Recommended for:

- Products' protection from the air during application

1107513



Hopper cover

1108007



Pressure control unit with adjustable pressure switch 0.2-5 bar for switchboard A1

1107503



Pneumatic wheels kit

1108009



15 m remote control extension for panel A1

1107512



Pressure measuring unit

1108008



Remote control 16 m for switchboard A1

1107103



Pipe cleaning kit DN25 with air

1107519



Kit 10 pcs sponge for cleaning hose Ø 25

1107520



Kit 10 pcs sponge for cleaning hose Ø 35

## Concrete hoses with camlock connections

1107529



Material holder hose Ø 19 - 10 m with cam couplings

1107525



Material holder hose Ø 25 - 15 m with cam couplings

1107526



Material holder hose Ø 25 - 10 m with cam couplings

1107527



Material holder hose Ø 25 - 5 m with cam couplings

1107528



Material holder hose Ø 35 - 10 m with cam couplings

## Quick connection compressed air hoses

1107530



Air hose Ø 13 - 5 m with Geka couplings

1107531



Air hose Ø 13 - 10 m with Geka couplings

1107532



Air hose Ø 13 - 16 m with Geka couplings

1107076



Air hose Ø 13 - 20 m with Geka couplings

1107540



Gun for premixed / traditional with deflector Ø 14

1107568



Spray gun Ø 25F with anti-spill valve and air flow regulator

1107549



Elongated gun DN25 1.43 m

1107011



Gun for smoothing / grouting / injections without deflectors

1107604



Deflector kit 5-6-8-12-16 tempered stainless steel

1107499



- Sectionable steel tube to obtain the desired outlet diameter
- Anti-spill valve

1108006









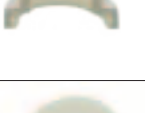










Joint gun A1 panel with control sensor: On-Open / Off-Closed 24V socket

1107570



Curved mouthpiece Ø 25

|         |  |  |  |  |  |  |
|---------|--|---|---|---|---|---|
|         |  | 1107540   | 1107011   | 1107549   | 1107568   | 1107577   |
| 1107551 |  Kit 10 pcs. Deflectors Ø 10 (Duse) in polyurethane for premixed plaster    | ✓   |   | ✓   | ✓   | ✓   |
| 1107552 |  Kit 10 pcs. Deflectors Ø 12 (Duse) in polyurethane for premixed plaster    | ✓   |   | ✓   | ✓   | ✓   |
| 1107553 |  Kit 10 pcs. Deflectors Ø 14 (Duse) in polyurethane for premixed plaster    | ✓   |   | ✓   | ✓   | ✓   |
| 1107554 |  Kit 10 pcs. Deflectors Ø 16 (Duse) in polyurethane for premixed plaster    | ✓   |   | ✓   | ✓   | ✓   |
| 1107557 |  Kit 5 pcs. Deflectors Ø 10 in polyurethane for traditional plaster         | ✓   |   |   |   | ✓   |
| 1107558 |  Kit 5 pcs. Deflectors Ø 12 in polyurethane for traditional plaster         | ✓   |   |   |   | ✓   |
| 1107559 |  Kit 5 pcs. Deflectors Ø 14 in polyurethane for traditional plaster         | ✓   |   |   |   | ✓   |
| 1107560 |  Kit 5 pcs. Deflectors Ø 16 in polyurethane for traditional plaster         | ✓   |   |   |   | ✓   |
| 1107561 |  Kit 3 pcs. Deflectors Ø 5 hardened steel for painting, smoothing, joints  |   | ✓   |   |   |   |
| 1107562 |  Kit 3 pcs. Deflectors Ø 6 hardened steel for painting, smoothing, joints |   | ✓   |   |   |   |
| 1107563 |  Kit 3 pcs. Deflectors Ø 8 hardened steel for smoothing                   |   | ✓   |   |   |   |
| 1107564 |  Kit 3 pcs. Deflectors Ø 12 hardened steel for joints with compressor aid |   | ✓   |   |   |   |

#### D8 - 1.5 Green

➔ Recommended for:

- Traditional lime / cement plasters
- Premixed / pre-dosed plasters based on cement and lime
- Premixed / pre-dosed structural plasters
- Premixed / pre-dosed restorative plasters
- Thixotropic fiber-reinforced mortars for reinforcement
- Insulating plasters based on polystyrene or cork
- Mortars for fire protection

**Pressure (bar) 15**

**Maximum grain size (mm) 6**

**Flow rate (l / min) 4 - 26**

1107030



Stator D 8-1.5  
MONO CLAMP

1107031



Rotor D 8-1.5 MONO

#### D5 - 2.5 Purple

➔ Recommended for:

- Adhesives for thermal insulation coatings
- Smoothing compounds for plaster
- Skim coats for decorative finishing with minerals
- Waterproofing, even fiber-reinforced
- Solvent-free paints

**Pressure (bar) 25**

**Maximum grain size (mm) 3**

**Flow rate (l / min) 2.3 - 17**

1107084



Stator D 5-2.5  
MONO CLAMP

1107085



Rotor D 5-2.5 MONO

#### D4 - 1/2 Lemon Yellow

➔ Recommended for:

- Mortars for grouts / stuccos

**Pressure (bar) 25**

**Maximum grain size (mm) 3**

**Flow rate (l / min) 1.2 - 9**

1107032



Stator D 4-1/2 CLAMP

1107033



Rotor D 4-1/2