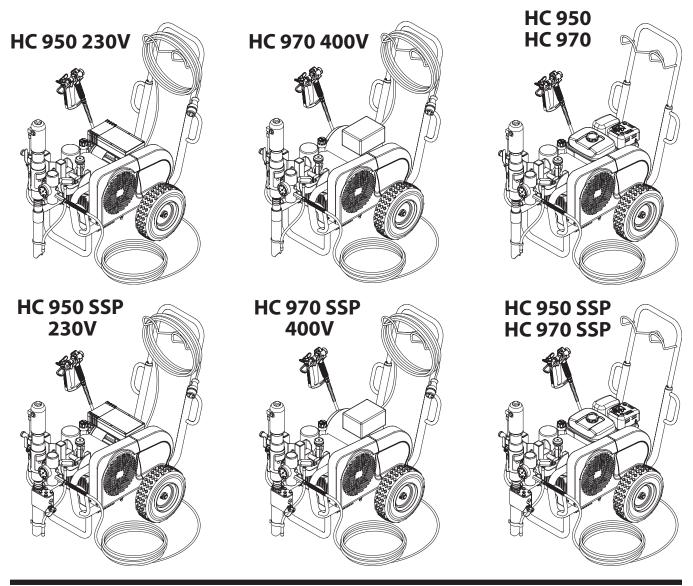


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# **WAGNER**® HC950 • HC950 SSP HC970 • HC970 SSP

Airless Hochdruck-Spritzgerät Airless high-pressure spraying unit Groupe de projection à haute pression Impianto per la verniciatura a spruzzo ad alta pressione Airless



Ausgabe 6 / 2014 Edition Edizione

0528 940G

# Warning!

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## Attention: Danger of injury by injection! Airless units develop extremely high spraying pressures.





Never put your fingers, hands or any other parts of the body into the spray jet!

Never point the spray gun at yourself, other persons or animals. Never use the spray gun without safety guard.

Do not treat a spraying injury as a harmless cut. In case of injury to the skin through coating materials or solvents, consult a doctor immediately for quick and expert treatment. Inform the doctor about the coating material or solvent used.



## The operating instructions state that the following points must always be observed before starting up:

- 1. Faulty units must not be used.
- 2. Secure WAGNER spray gun using the safety catch on the trigger.
- 3. Ensure that the unit is properly earthed.
- 4. Check allowable operating pressure of high-pressure hose and spray gun.
- 5. Check all connections for leaks.



## The instructions regarding regular cleaning and maintenance of the unit must be strictly observed.

Before any work is done on the unit or for every break in work the following rules must be observed:

- 1. Release the pressure from spray gun and hose.
- 2. Secure the WAGNER spray gun using the safety catch on the trigger.
- 3. Switch off unit.

# Be safety conscious!

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#### GB

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#### 1. Safety regulations for Airless spraying

#### 1.1 Explanation of symbols used

This manual contains information that must be read and understood before using the equipment. When you come to an area that has one of the following symbols, pay particular attention and make certain to heed the safeguard.

$\underline{\land}$	This symbol indicates a potential hazard that may cause serious injury or loss of life. Important safety information will follow.
Attention	This symbol indicates a potential hazard to you or to the equipment. Important information that tells how to prevent damage to the equipment or how to avoid causes of minor injuries will follow.
	Danger of skin injection
	Danger of fire from solvent and paint fumes
	Danger of explosion from solvent, paint fumes and incompatible materials
	Danger of injury from inhalation of harmful vapors
í	Notes give important information which should be given special attention.



#### HAZARD: INJECTION INJURY

A high pressure stream produced by this equipment can pierce the skin and underlying tissues, leading to serious injury and possible amputation.

Do not treat a spraying injury as a harmless cut. In case of injury to the skin through coating materials or solvents, consult a doctor immediately for quick and expert treatment. Inform the doctor about the coating material or solvent used.

#### **PREVENTION:**

- NEVER aim the gun at any part of the body.
- NEVER allow any part of the body to touch the fluid stream. DO NOT allow body to touch a leak in the fluid hose.
- NEVER put your hand in front of the gun. Gloves will not provide protection against an injection injury.
- ALWAYS lock the gun trigger, shut the fluid pump off and release all pressure before servicing, cleaning the tip guard, changing tips, or leaving unattended. Pressure will not be released by turning off the engine. The PRIME/SPRAY valve or pressure bleed valve must be turned to their appropriate positions to relieve system pressure.
- ALWAYS keep tip guard in place while spraying. The tip guard provides some protection but is mainly a warning device.
- ALWAYS remove the spray tip before flushing or cleaning the system.
- NEVER use a spray gun without a working trigger lock and trigger guard in place.

 All accessories must be rated at or above the maximum operating pressure range of the sprayer. This includes spray tips, guns, extensions, and hose.



#### HAZARD: HIGH PRESSURE HOSE

The paint hose can develop leaks from wear, kinking and abuse. A leak can inject material into the skin. Inspect the hose before each use.

#### **PREVENTION:**

- High-pressure hoses must be checked thoroughly before they are used.
- Replace any damaged high-pressure hose immediately.
- Never repair defective high-pressure hoses yourself!
- Avoid sharp bends and folds: the smallest bending radius is about 20 cm.
- Do not drive over the high-pressure hose. Protect against sharp objects and edges.
- Never pull on the high-pressure hose to move the device.
- Do not twist the high-pressure hose.
- Do not put the high-pressure hose into solvents. Use only a wet cloth to wipe down the outside of the hose.
- Lay the high-pressure hose in such a way as to ensure that it cannot be tripped over.



Only use WAGNER original-high-pressure hoses in order to ensure functionality, safety and durability.



#### HAZARD: EXPLOSION OR FIRE

Solvent and paint fumes can explode or ignite. Severe injury and/or property damage can occur.

#### **PREVENTION:**

- Do not use materials with a flashpoint below 21° C (70° F). Flashpoint is the temperature at which a fluid can produce enough vapors to ignite.
- Do not use the unit in work places which are covered by the explosion protection regulations.
- Provide extensive exhaust and fresh air introduction to keep the air within the spray area free from accumulation of flammable vapors.
- Avoid all ignition sources such as static electricity sparks, electrical appliances, flames, pilot lights, hot objects, and sparks from connecting and disconnecting power cords or working light switches.
- Do not smoke in spray area.
- Place sprayer sufficient distance from the spray object in a well ventilated area (add more hose if necessary). Flammable vapors are often heavier than air. Floor area must be extremely well ventilated. The pump contains arcing parts that emit sparks and can ignite vapors.
- The equipment and objects in and around the spray area must be properly grounded to prevent static sparks.
- Use only conductive or earthed high pressure fluid hose. Gun must be earthed through hose connections.
- Power cord must be connected to a grounded circuit (electric units only).
- Always flush unit into separate metal container, at low pump pressure, with spray tip removed. Hold gun firmly against side of container to ground container and prevent static sparks.

- Follow material and solvent manufacturer's warnings and instructions. Be familiar with the coating material's MSDS sheet and technical information to ensure safe use.
- Use lowest possible pressure to flush equipment.
- When cleaning the unit with solvents, the solvent should never be sprayed or pumped back into a container with a small opening (bunghole). An explosive gas/air mixture can arise. The container must be earthed.



#### HAZARD: HAZARDOUS VAPORS

Paints, solvents, and other materials can be harmful if inhaled or come in contact with body. Vapors can cause severe nausea, fainting, or poisoning.

#### **PREVENTION:**

- Wear respiratory protection when spraying. Read all instructions supplied with the mask to be sure it will provide the necessary protection.
- All local regulations regarding protection against hazardous vapors must be observed.
- Wear protective eyewear.
- Protective clothing, gloves and possibly skin protection cream are necessary for the protection of the skin. Observe the regulations of the manufacturer concerning coating materials, solvents and cleaning agents in preparation, processing and cleaning units.



#### HAZARD: GENERAL

This product can cause severe injury or property damage.

#### **PREVENTION:**

- Follow all appropriate local, state, and national codes governing ventilation, fire prevention, and operation.
- Pulling the trigger causes a recoil force to the hand that is holding the spray gun. The recoil force of the spray gun is particularly powerful when the tip has been removed and a high pressure has been set on the airless pump. When cleaning without a spray tip, set the pressure control knob to the lowest pressure.
- Use only manufacturer authorized parts. User assumes all risks and liabilities when using parts that do not meet the minimum specifications and safety devices of the pump manufacturer.
- ALWAYS follow the material manufacturer's instructions for safe handling of paint and solvents.
- Clean up all material and solvent spills immediately to prevent slip hazard.
- Wear ear protection. This unit can produce noise levels above 85 dB(A).
- Never leave this equipment unattended. Keep away from children or anyone not familiar with the operation of airless equipment.
- Do not spray on windy days.
- The device and all related liquids (i.e. hydraulic oil) must be disposed of in an environmentally friendly way.

#### 1.2 Electric Safety

Electric models must be earthed. In the event of an electrical short circuit, earthing reduces the risk of electric shock by providing an escape wire for the electric current. This product is equipped with a cord having an earthing wire with an appropriate earthing plug. Connection to the mains only through a special feed point, e.g. through an error protection insallation with INF < 30 mA.



DANGER — Work or repairs at the electrical equipment may only be carried out by a skilled electrician. No liability is assumed for incorrect installation. Switch the unit off. Before all repair work, unplug the power plug from the outlet.

Danger of short-circuits caused by water ingressing into the electrical equipment. Never spray down the unit with high-pressure or high-pressure steam cleaners.

#### Work or repairs at the electrical equipment:

These may only be carried out by a skilled electrician. No liability is assumed for incorrect installation.



#### 1.3 Gasoline Engine Safety



Always place sprayer outside of structure in fresh air. Keep all solvents away from engine exhaust. Never fill fuel tank with a running or hot engine. Hot surface can ignite spilled fuel. Always attach ground wire from pump to a grounded object. Refer to engine owner's manual for complete safety information.

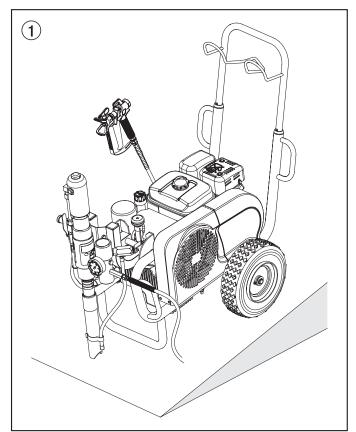
- 1. Gas engines are designed to give safe and dependable service if operated according to instructions. Read and understand the engine manufacturer's Owner's Manual before operating the engine. Failure to do so could result in personal injury or equipment damage.
- 2. To prevent fire hazards and to provide adequate ventilation, keep the engine at least 1 meter (3 feet) away from buildings and other equipment during operation. Do not place flammable objects close to the engine.
- 3. People who are not operating the device must stay away from the area of operation due to a possibility of burns from hot engine components or injury from any equipment the engine may be used to operate.
- 4. Know how to stop the engine quickly, and understand the operation of all controls. Never permit anyone to operate the engine without proper instructions.
- 5. Gasoline is extremely flammable and is explosive under certain conditions.
- 6. Refuel in a well-ventilated area with the engine stopped. Do not smoke or allow flames or sparks in the refueling area or where gasoline is stored.
- 7. Do not overfill the fuel tank. After refueling, make sure the tank cap is closed properly and securely.
- 8. Be careful not to spill fuel when refueling. Fuel vapor or spilled fuel may ignite. If any fuel is spilled, make sure the area is dry before starting the engine.
- 9. Never run the engine in an enclosed or confined area. Exhaust contains poisonous carbon monoxide gas; exposure may cause loss of consciousness and may lead to death.
- 10. The muffler becomes very hot during operation and remains hot for a while after stopping the engine. Be careful not to touch the muffler while it is hot. To avoid severe burns or fire hazards, let the engine cool before transporting it or storing it indoors.
- 11. Never ship/transport sprayer with gasoline in the tank.



DO NOT use this equipment to spray water or acid.

#### **1.4** Setting up on uneven surfaces

The front side of the unit must point downwards to prevent sliding away.



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#### 2. General view of application

#### 2.1 Application

Priming and final coating of large areas, sealing, impregnation, construction sanitation, façade protection and renovation, rust protection and building protection, roof coating, roof sealing, concrete sanitation, as well as heavy corrosion protection.

#### Examples of objects to be sprayed

Large-scale construction sites, underground construction, cooling towers, bridges, sewage treatment plants and terraces.

#### 2.2 Coating materials

#### Processible coating materials



Pay attention to the Airless quality of the coating materials to be processed.

Latex paint, dispersion paints, fire protection and thick film materials, zinc dust and micaceous iron ore paints, Airless spray primer, sprayable glue, anti-corrosive agents, thick coating materials and bitumen-like coating materials.

No other materials should be used for spraying without WAGNER's approval.

#### HC 950-SSP

With suitable accessories, especially for working with airless spray primer (Object size: 200-800 m<sup>2</sup>).

#### HC 970-SSP

Especially suited to working with airless spray primer (Object size: more than 800 m<sup>2</sup>).

#### Filtering

In spite of the high-pressure filter, filtering of the coating material is to be recommended in general (except when processing airless joint filler).

Stir coating material before commencement of work.



Make sure when stirring with motor-driven agitators that no air bubbles are stirred in. Air bubbles disturb when spraying and can, in fact, lead to interruption of operation.

#### Viscosity

It is possible to work with high-viscosity coating materials with the devices.

If highly viscous coating materials cannot be sucked up, they must be diluted in accordance with the manufacturer's instruction.

#### Two-component coating material

The appropriate processing time must be adhered to exactly. Within this time rinse through and clean the unit meticulously with the appropriate cleaning agents.

#### Coating materials with sharp-edged additional materials

These have a strong wear and tear effect on valves, high-pressure hose, spray gun and tip. The durability of these parts can be reduced appreciably through this.

#### 3. Description of unit

#### 3.1 Airless process

The main area of application are thick layers of highly viscous coating material for large areas and a high consumption of material.

A piston pump takes in the coating material by suction and conveys it to the tip. Pressed through the tip at a pressure of up to a maximum of 250 bar (25 MPa), the coating material is atomised. This high pressure has the effect of micro fine atomisation of the coating material.

As no air is used in this process, it is described as an AIRLESS process. This method of spraying has the advantages of finest atomisation, cloudless operation and a smooth, bubble-free surface. As well as these, the advantages of the speed of work and convenience must be mentioned.

#### 3.2 Functioning of the unit

The following section contains a brief description of the technical construction for better understanding of the function.

WAGNER HC 950 • 970 are high-pressure spraying units driven by either a gasoline engine or electric motor.

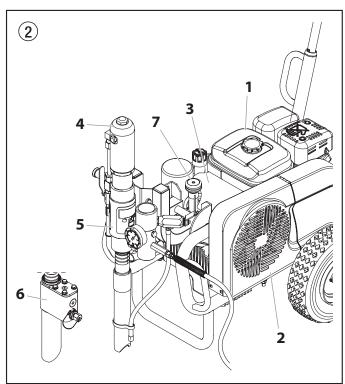
The gasoline engine or electric motor (fig. 2, item 1) drives the hydraulic pump (3) by means of a V-belt which is under the belt cover (2). Hydraulic oil flows to the hydraulic motor (4) and then moves the piston up and down in the material feed pump (5).

With devices HC 950-SSP and HC 970-SSP, the piston in the material feed pump moves a shovel valve (6). The shovel valve feeds high-viscosity coating materials.

The inlet valve is opened automatically by the upwards movement of the piston. The outlet valve is opened when the piston moves downward.

The coating material flows under high pressure through the highpressure hose to the spray gun. When the coating material exits from the tip it atomises.

The pressure control valve (7) controls the volume and the operating pressure of the coating material.



#### Description of unit

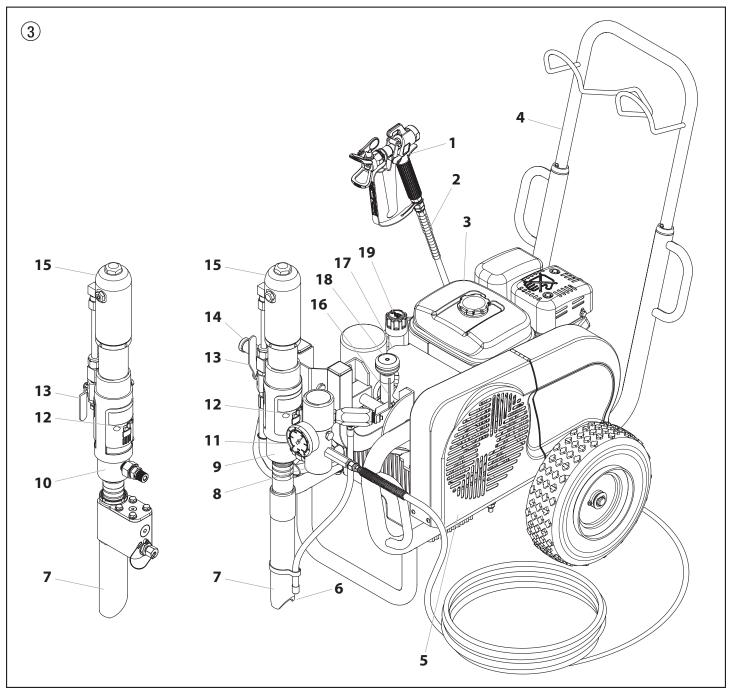
#### GB

#### 3.3 Illustration legend for gasoline HC units

- 1 Spray gun
- 2 High-pressure hose
- 3 Gasoline engine
- 4 Extractable handle
- 5 V-belt under the belt cover
- 6 Return hose
- 7 Suction tube
- 8 High-pressure filter
- 9 Material feed pump HC 950, HC 970
- 10 Material feed pump HC 950-SSP, HC 970-SSP
- 11 Pressure gauge

#### 3.4 Illustration of gasoline HC units

- 12 Oil cup for separating oil (separating oil prevents increased wear and tear of the packings)
- 13 Ball valve: horizontal position hydraulic motor switched off vertical position hydraulic motor switched on
- 14 Handle for swiveling the material feed pump
- 15 Hydraulic motor
- 16 Relief valve handle: Turn left for circulation ↔ Turn right for spray <sup>></sup>¶
- 17 Hydraulic oil pump
- 18 Pressure control knob
- 19 Oil measuring stick

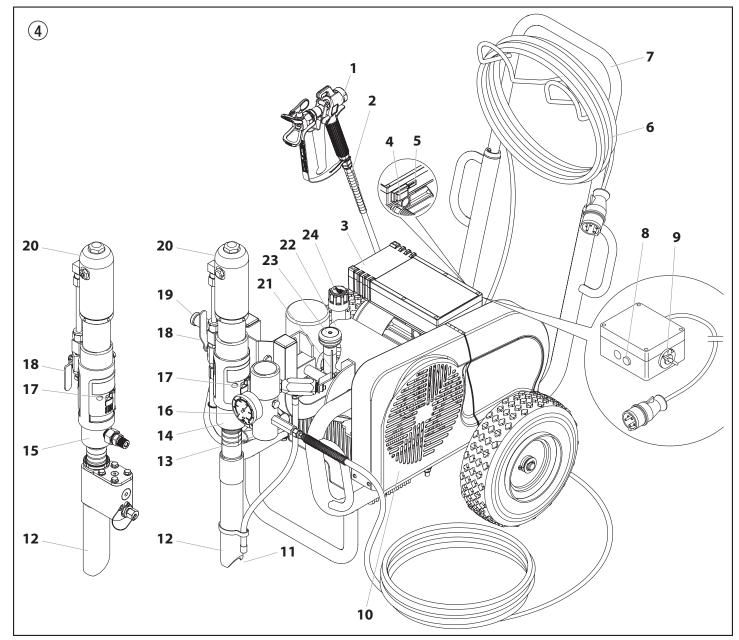


#### 3.5 Illustration legend for electric HC units

- 1 Spray gun
- 2 High-pressure hose
- 3 Electric motor
- 4 ON/OFF switch HC 950, HC 950-SSP
- 5 Control lamp that shows unit operational HC 950, HC 950-SSP
- 6 Power cord
- 7 Extractable handle
- 8 Control lamp that shows unit operational HC 970, HC 970-SSP
- 9 ON/OFF switch (400 V) HC 970, HC 970-SSP
- 10 V-belt under the belt cover
- 11 Return hose

- 12 Suction tube
- 13 High-pressure filter
- 14 Material feed pump HC 950, HC 970
- 15 Material feed pump HC 950-SSP, HC 970-SSP
- 16 Pressure gauge
- 17 Oil cup for separating oil (separating oil prevents increased wear and tear of the packings)
- 18 Ball valve: horizontal position hydraulic motor switched off vertical position hydraulic motor switched on
- 19 Handle for swiveling the material feed pump
- 20 Hydraulic motor
- 21 Relief valve handle: Turn left for circulation ↔ Turn right for spray <sup>></sup>7
- 22 Hydraulic oil pump
- 23 Pressure control knob
- 24 Oil measuring stick

#### 3.6 Illustration of electric HC units



#### Description of unit

3.7 Technical data for gasoline HC units	HC 950 (0528500)	HC 950-SSP (0528502)	HC 970 (0528508)	HC 970-SSP (0528506)
Gasoline engine, power				
4.1 kW:	*	*		
6 kW:			*	*
Max. operating pressure				
25 MPa (250 bar):	*	*	*	*
Max. volume flow				
8 l/min:	*	*		
12 l/min:			*	*
Volume flow at 12 MPa (120) bar				
7.6 l/min:	*	*		
11 l/min:			*	*
Max. size of tip with a spray gun		1	1	
0.052 inch – 1.30 mm:	*	*		
0.056 inch – 1.42 mm:			*	*
Fluid outlet fitting				
3/8 inch – 9.5 mm:	*			
1/2 inch – 12.7 mm:		*	*	*
Max. temperature of the coating material		1	1	1
43° C:	*	*	*	*
Max. Viscosity		1	1	1
50.000 mPa·s:	*	*		
65.000 mPa·s:			*	*
Filter insert (standard equipment)	1		1	4
0 Mesh:	*	*	*	*
Weight		1		
76 kg	*	*		
88 kg			*	*
Hydraulic oil filling quantity	I			1
4.7   ISO 32:	*	*	*	*
Max. tire pressure		1	1	1
0.2 MPa (2 bar):	*	*	*	*
Special high-pressure hose		1	1	1
DN 10 mm, 15 m, connection thread NPSM 3/8:	*			
DN 13 mm, 15 m, connection thread NPSM 1/2:		*	*	*
Hose whip		1	1	1
DN 10 mm, 2.5 m, connection thread NPSM 3/8:		*	*	*
Dimensions L x W x H				
1185 x 955 x 655 mm:	*	*		
1200 x 955 x 655 mm:			*	*
Max.sound pressure level:		<u> </u>	1	
92 dB (A)*	*	*		
98 dB (A)*			*	*

(GB)

\* Place of measurement: 1 m distance from unit and 1.60 m above reverberant floor, 120 bar (12 MPa) operating pressure.

#### GB

3.8	Technical data for electric HC units	HC 950 (0528501)	HC 950-SSP (0528503)	HC 970 (0528509)	HC 970-SSP (0528507)
Volta					
230 V	~, 50 Hz:	*	*		
	50 Hz, V3~:			*	*
Fuse p	protection				
16 A:		*	*	*	*
Powe	r cord				
3 x 2.5	5 mm² – 6 m:	*	*		
5 x 2.5	5 mm² – 6 m:			*	*
Capad	lity				÷
3.6 kW	/:	*	*		
5.5 kW	/:			*	*
Max o	operating pressure				
25 MP	a (250 bar):	*	*	*	*
Maxir	num volume flow	I	1	1	
6.6 l/n	nin:	*	*		
10 l/m				*	*
Volun	ne flow at 12 MPa (120 bar)		1	1	1
5.2 l/n		*	*		
10 l/m			-	*	*
	size of tip with a spray gun			•	
	inch – 1.30 mm:	*	*		
	inch – 1.42 mm:			*	*
	outlet fitting				
	ch – 9.5 mm:	*			
	ch – 12.7 mm:	т 	*	*	*
-	temperature of the coating material		r	<b>*</b>	r
43° C:		*	*	*	*
	Viscosity	r	r	<b>*</b>	r
	) mPa·s:	*		*	
		~~~~~~	*	*	-
	) mPa·s:		자		*
	insert (standard equipment)	-	44	ala	-
0 Mes		*	*	*	*
Weig	nt:			1	
83 kg		*			
84.5 k			*		
100 kg	-			*	-
103 kg					*
	aulic oil filling quantity		1	1	1
4.7   IS		*	*	*	*
	tire pressure	1	1	1	1
	Pa (2 bar):	*	*	*	*
-	al high-pressure hose		1		1
	mm, 15 m, connection thread NPSM 3/8:	*			
	mm, 15 m, connection thread NPSM 1/2:		*	*	*
Hose	-				
	mm, 2,5 m, connection thread NPSM 3/8:		*	*	*
Dime	nsions L x W x H				
1185>	< 955 x 655 mm:	*	*		
1200>	< 955 x 655 mm:			*	*
Max.	sound pressure level:				
30 dB		*	*		
	(A)*			*	*

\* Place of measurement: 1 m distance from unit and 1.60 m above reverberant floor, 12 MPa (120 bar) operating pressure.

HC 950 • HC 970

#### Description of unit

#### **Operating Temperature**

This equipment will operate correctly in its intended ambient, at a minimum between +10°C and +40°C.

#### **Relative Humidity**

The equipment will operate correctly within an environment at 50% RH, +40°C. Higher RH may be allowed at lower temperatures. Measures shall be taken by the Purchaser to avoid the harmful effects of occasional condensation.

#### Altitude

This equipment will operate correctly up to 2100 m above mean sea level.

#### **Transportation and Storage**

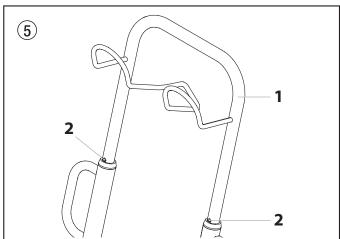
This equipment will withstand, or has been protected against, transportation and storage temperatures of -25°C to +55°C and for short periods up to +70°Č.

It has been packaged to prevent damage from the effects of normal humidity, vibration and shock.

#### 3.9 **Transport**

Do not lift by cart handle when loading or unloading. Device is very heavy. Three-person lift is required. Attention

#### Handle

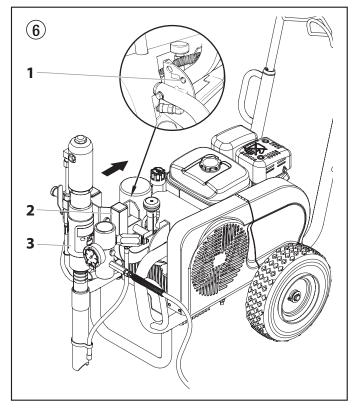


Pull out the handle (fig. 5, item 1) until it will come no further. Push in the snap buttons (2) on the sides of the handle and insert the handle.

#### 3.10 **Transport in vehicle**

Push locking pin (fig. 6, item 1) in the swivel mechanism (2) for the material feed pump (3) and swivel it to a horizontal position. Ensure that the locking pin locks.

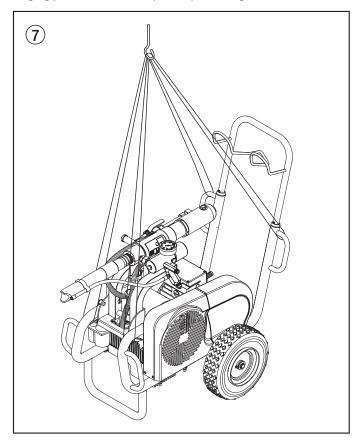
Roll the high-pressure hose over the hose rack on the handle. Secure the unit with a suitable fastening.



#### 3.11 **Crane transport**

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Hanging points for crane straps or ropes, see figure 7.



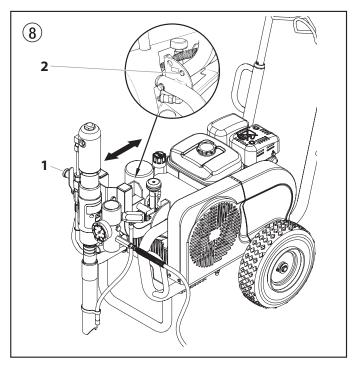
#### 4. Starting operation

#### 4.1 Changing the material feed pump position



## Be careful, as the moving parts of the swivel mechanism can crush fingers and feet.

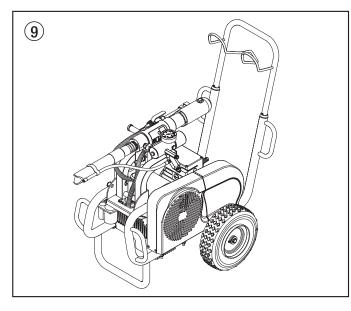
- 1. Grip handle (fig. 8, item 1) with one hand.
- 2. Push locking pin (2) with the other hand.
- 3. Swivel material feed pump up or down to the desired position, until the locking pin (2) locks into the new position.



#### 1. Transport position (fig. 9)

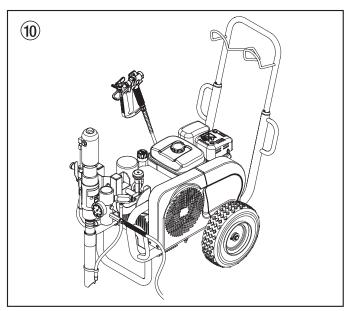
Transport unit only when the material feed pump is in the horizontal position.

Swiveling the material feed pump to a horizontal position also allows removal of the pump from the coating material container. Ensure that the locking pin locks.



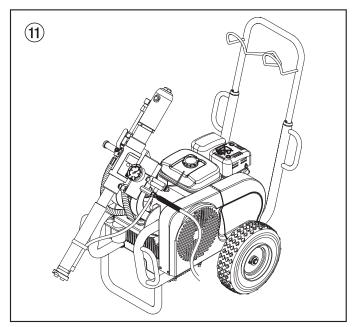
#### 2. Operating position I (fig. 10)

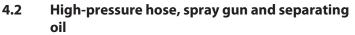
Swiveling the material feed pump to a vertical position allows the material feed pump to be immersed in the coating material container.



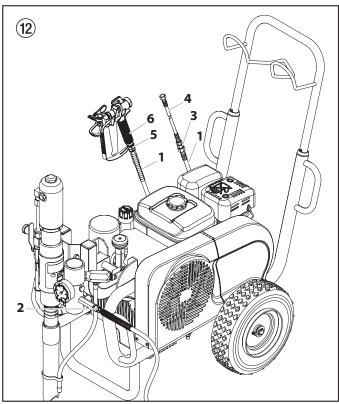
#### 3. Operating position II (fig. 11)

Swivel material feed pump to a slanted (45°) postion if using the container suction system (accessory). In this position, there is open space under the material feed pump.





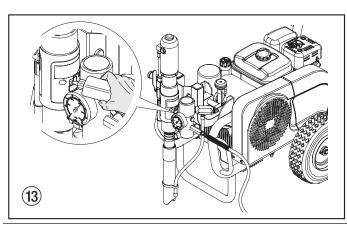
- 1. Screw the high-pressure hose (fig. 12, item 1) onto the hose connection (2).
- Screw HC 950-SSP HC 970 and HC 970-SSP double socket (3) into the high-pressure hose.
   Screw on hose whip (4).
- 3. Screw connection socket (5) to the spray gun (6).
- 4. Screw spray gun with selected tip to the high-pressure hose or hose whip (4), depending on the model.
- 5. Tighten union nuts at high-pressure hose and, depending on the model, at the hose whip to prevent coating material from leaking.



6. Fill in EasyGlide (fig. 13). Do not fill in too much separating oil, i.e. ensure that no separating oil drips into the coating material container.



## EasyGlide prevents increased wear and tear to the packings.



#### 4.3 Gasoline engine (gas units only)

- Fill in the supplied engine oil.
   The gasoline engine is transported without engine oil.
   The oil-level sensor prevents the engine from being started when the oil level is too low.
   For oil grades and quantities please refer to the engine instructions.
- Fill the gasoline tank.
   For information on the gasoline please refer to the engine instructions.

#### 4.4 Connection to the mains (electric units only)



The connection must take place through a properly earthed two-pole and earth socket outlet.

Before connecting the unit to the mains supply, make sure that the line voltage matches the specifications on the unit's rating plate. The green indicator light will light up as soon as the mains plug has been connected.

## 4.5 Flushing preserving fluid during initial start-up

- 1. Push locking pin (fig. 14, item 1) and swivel material feed pump to a container with suitable cleaning agent.
- 2. Turn the pressure control knob (2) on the hydraulic pump to the left (pressure reduction) until it stops.
- 3. Turn the relief valve handle (3) fully counterclockwise ( $\ensuremath{\mathfrak{O}}$  Circulation).
- 4. Start the engine or turn on the electric motor.
  - a. To start the gas engine, refer to the engine manual.
  - b. To start the electric motor:
  - For HC 920 and HC 950 units, move the switch to "1" (ON).
  - For HC 970 units, first set the switch to "Y" and then to " $\Delta$ " (ON).

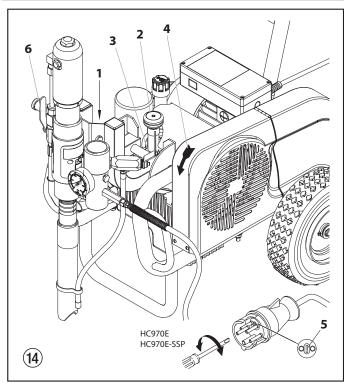


The direction of the rotation of the pulley must correspond to the arrow (4) on the belt cover. If the belt is running opposite the direction of the arrow: Switch unit to "O" (OFF). Unplug power plug and turn the polarity changer (5) in the power plug by 180° with a screwdriver. Plug in power plug again.

5. Move the hydraulic ball valve (6) on the material feed pump to its vertical position (open). This will switch on the hydraulic motor.

Hydraulic oil flows to the hydraulic motor of the material feed pump.

- 6. Turn the pressure control knob (2) to the right (pressure increase) until cleaning agent exits the return hose.
- 7. Turn relief valve handle (3) fully clockwise ( $^{>}\eta$  spray).
- 8. Pull the trigger of the spray gun.
- 9. Spray the cleaning agent from the unit into an open collecting container.



#### 4.6 Taking the unit into operation with coating material



#### If the unit is located on a non-conductive surface (e.g. a wood floor), earth the unit with an earthing cable.

- 1. Push locking pin (fig. 14, item 1) and swivel material feed pump into the coating material container.
- 2. Turn the pressure control knob (2) on the hydraulic pump to the left (pressure reduction) until it stops.
- 3. Turn the relief valve handle (3) fully counterclockwise (O Circulation).
- 4. Start the engine or turn on the electric motor.
- a. To start the gas engine, refer to the engine manual.
- b. To start the electric motor:
- For HC 950 units, move the switch to "1" (ON).
- For HC 970 units, first set the switch to "Y" and then to " $\Delta$ " (ON).



The direction of the rotation of the pulley must correspond to the arrow (4) on the belt cover. If the belt is running opposite the direction of the arrow: Switch unit to "O" (OFF). Unplug power plug and turn the polarity changer (5) in the power plug by 180° with a screwdriver. Plug in power plug again.

5. Move the hydraulic ball valve (6) on the material feed pump to its vertical position (open). This will switch on the hydraulic motor.

Hydraulic oil flows to the hydraulic motor of the material feed pump.

- 6. Turn the pressure control knob (2) to the right (pressure increase) until coating material exits the return hose.
- 7. Turn relief valve handle (3) fully clockwise ( $^{>}\eta$  spray).
- Pull the trigger of the spray gun, then set the desired operating pressure by means of the pressure control knob (2).
- 9. The unit is ready to spray.

#### 5. Spraying technique

Move the spray gun evenly during the spraying process. Otherwise the spray pattern will be uneven. Carry out the spray movement with the arm, not with the wrist. Observe a parallel distance of approx. 30 cm between the spray gun and the object of spraying. The lateral edge of the spray jet should not be too distinct. The spray edge should be gradual in order to facilitate overlapping of the next coat. Always move the spray gun parallel and at an angle of 90° to the surface to be coated in order to minimize the paint mist.



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If very sharp edges result or if there are streaks in the spray jet – increase the operating pressure or dilute the coating material.

### 6. Handling the high-pressure hose

The unit is equipped with a high-pressure hose specially suited for piston pumps.



Danger of injury through leaking high-pressure hose. Replace any damaged high-pressure hose immediately.

Never repair defective high-pressure hoses yourself!

The high-pressure hose is to be handled with care. Avoid sharp bends and folds: the smallest bending radius is about 20 cm. Do not drive over the high-pressure hose. Protect against sharp objects and edges.

Never pull on the high-pressure hose to move the device.

Make sure that the high-pressure hose cannot twist. This can be avoided by using a Wagner spray gun with a swivel joint and a hose system.



When using the high-pressure hose while working on scaffolding, it is best to always guide the hose along the outside of the scaffolding.

The risk of damage rises with the age of the highpressure hose. Wagner recommends replacing highpressure hoses after 6 years.

Use only WAGNER original-high-pressure hoses in order to ensure functionality, safety and durability.

#### 7. Interruption of work

1. Move the hydraulic ball valve on the material feed pump to its horzontal position (closed).

Flow of hydraulic oil to hydraulic motor of material feed pump is interrupted.

- 2. Turn the relief valve handle (3) fully counterclockwise ( $\ensuremath{\mathfrak{O}}$  Circulation).
- 3. Turn off the gasoline engine or electric motor.
- 4. Pull the trigger of the spray gun in order to release the pressure from the high-pressure hose and spray gun.
- 5. Secure the spray gun, refer to the operating manual of the spray gun.
- If a standard tip is to be cleaned, see page 43, point 11.2.
   If a non-standard tip is installed, proceed according to the relevant operating manual.
- 7. Leave the suction tube immersed in the coating material or immerse it in the corresponding cleaning agent.



If fast-drying or two-component coating material is used, ensure that the unit is rinsed with a suitable cleaning agent within the processing time. A clean state is the best method of ensuring operation without problems. After you have finished spraying, clean the unit. Under no circumstances may any remaining coating material dry and harden in the unit.

The cleaning agent used for cleaning (only with an ignition point above  $21 \,^{\circ}$ C) must be suitable for the coating material used.

• Secure the spray gun, refer to the operating manual of the spray gun.

Clean and remove tip.

For a standard tip, refer to page 43, point 11.2.

If a non-standard tip is installed, proceed according to the relevant operating manual.

- 1. Push locking pin and swivel material feed pump out of coating material.
- 2. Pull the trigger of the spray gun in order to pump the remaining coating material from the suction tube, high-pressure hose and the spray gun into an open container.



The container must be earthed in case of coating materials which contain solvents.



Caution! Do not pump or spray into a container with a small opening (bunghole)! Refer to the safety regulations.

- 3. Push locking pin and swivel material feed pump to a container with suitable cleaning agent.
- Turn the relief valve handle fully counterclockwise (O Circulation).
- 5. Pump a suitable cleaning agent in the circuit for a few minutes.
- 6. Turn relief valve handle fully clockwise ( $^{>}$ **1** spray).
- 7. Pump the remaining cleaning agent into an open container until the unit is empty.
- 8. Turn the relief valve handle fully counterclockwise (O Circulation).
- 9. Move the hydraulic ball valve on the material feed pump to its horzontal position (closed).
- 10. Turn off the gasoline engine or electric motor.



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Gasoline units — Switch off the gasoline engine and let it cool down.

Electric units — Unplug the mains plug from the socket.

Danger of short-circuits through penetrating water. Never spray down the unit with high-pressure or high-pressure steam cleaners.



Do not put the high-pressure hose into solvents. Use only a wet cloth to wipe down the outside of the hose.

Wipe the unit off with a cloth soaked in a suitable cleaning agent.

#### 8.2 Cleaning the high-pressure filter

Clean the filter cartridge regularly.

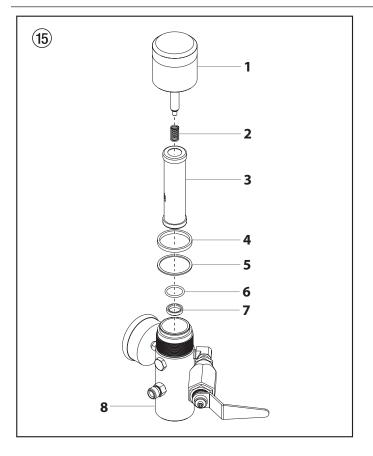
A soiled or clogged high-pressure filter can cause a poor spray pattern or a clogged tip.

#### Disassembly

- Move the hydraulic ball valve on the material feed pump to its horzontal position (closed).
   Flow of hydraulic oil to hydraulic motor of material feed pump is interrupted.
- 2. Turn the relief valve handle fully counterclockwise (  $\ensuremath{\mathfrak{O}}$  Circulation).
- 3. Turn off the gasoline engine or electric motor.
- 4. Unscrew the housing cover (fig. 15, item 1).
- 5. Pull filter cartridge (3) out of housing (8).
- 6. Clean the pressure spring (2) and filter cartridge (3) with an appropriate cleaning agent, clean the inside of the housing (8) and housing cover (1).
- 7. Check ball in the filter cartridge (3) for wear and replace filter cartridge, if necessary.
- 8. If ball in filter cartridge (3) is thoroughly worn, aremove O-ring (6) and valve seat (7). Replace worn valve seat, if necessary.
- 9. Always replace O-ring (6) after removal.
- Pull off pressure spring (2) from housing cover (1). Measure length of pressure spring, and replace if shorter than 19 mm.

#### Assembly

- 1. Insert valve seat (7) with the ball seat surface facing up into the housing (8).
- 2. Insert O-ring (6) into the housing (8).
- 3. Insert filter cartridge (3).
- 4. Place thin seal (5) on threaded section of housing (8).
- 5. Place thick seal (4) on top of thin seal (5).
- 6. Slide pressure spring (2) onto housing cover pin (2).
- 7. Screw on housing cover (1) and tighten by hand.



#### 8.3 Cleaning Airless spray gun

- Rinse Airless spray gun with an appropriate cleaning agent.
- Clean tip thoroughly with appropriate cleaning agent so that no coating material residue remains.
- Thoroughly clean the outside of the Airless spray gun.

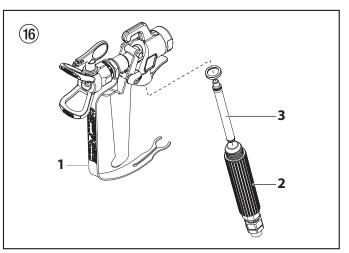
#### Intake filter in Airless spray gun (fig. 16) Dismounting

- 1. Pull protective guard (1) forward vigorously.
- 2. Screw handle (2) out of the gun housing. Remove intake filter (3).
- 3. Intake filter congested or defective replace.

#### Mounting

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- 1. Place intake filter (3) with the long cone into the gun housing.
- 2. Screw handle (2) into the gun housing and tighten.
- 3. Snap in protective guard (1).



#### 9.1 Gasoline engine

Type of malfunction	Possible cause	Measures for eliminating the malfunction		
A. Gasoline engine does not start up	<ol> <li>No gasoline.</li> <li>ON/OFF switch to OFF.</li> <li>Gasoline cock closed.</li> <li>Engine problem.</li> <li>Engine defective.</li> <li>Oil level insufficient.</li> </ol>	<ol> <li>Fill the gasoline tank.</li> <li>Move the switch to ON.</li> <li>Open the gasoline cock.</li> <li>Please refer to the engine instructions.</li> <li>Bring to the Honda service point.</li> <li>Top off oil.</li> </ol>		

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#### 9.2 Electric Motor

Type of malfunction		Possi	Possible cause		Measures for eliminating the malfunction		
A.	Unit does not start	1.	Indicator light does not indicate unit has power.	1.	Check power supply.		
		2.	The unit has switched off automatically because of an overload.	2.	Wait 2 – 3 minutes, then turn the unit back on.		
В.	HC 970 units: Piston rod in the material feed pump is not moving up and down.	1.	Direction of the rotation of the electric motor is incorrect	1.	Turn the polarity changer in the power plug 180°.		

#### 9.3 Hydraulic motor

ype	of malfunction	malfunction Possible cause		Meas	ures for eliminating the malfunction
A.	Hydraulic motor stuck in the lower position.		et valve seat in the material feed p is loose.	1.	vertical. Screw out sealing screw on hydraulic motor. Press down reversing valve on hydraulic motor. Remount sealing screw. Start unit. The piston rod moves upward and then gets stuck in the lower
		mote hexa	ersing valve in the hydraulic or is stuck or the upper or lower agonal nut on the valve rod has ome loose.	2.	position. The cause is a loose outlet valve seat. Take unit to a Wagner authorized service center.
В.	Hydraulic motor stuck in the upper position.	2. Pres	ersing valve is stuck. sure spring on valve rod is broken. sure spring stop on valve rod is	1. 2.	Take unit to a Wagner authorized service center. Take unit to a Wagner authorized service center.
		brok		3. 4.	Take unit to a Wagner authorized service center. Turn back pressure control knob. Vent air at low pressure during a 5 – 10 minute endurance run. Do not let the material feed pump rur dry.
					Check for leaks: • Loose connections on hydraulic oil tank • Loose connections on the hydraulic oil pump • Loose hydraulic oil hose connections • Level of oil in hydraulic tank is too low
		5. Air ir	n the material feed pump.	5.	Ball valve on the material feed pump – lever position vertical. Screw out sealing screw on hydraulic motor. Press down reversing valve on hydraulic motor. Remount sealing screw. Start unit. Prevent the materi feed pump from sucking up air.
C.	Low pressure. The piston rod moves correctly in the downward stroke, but	1. Faul mot	ty piston packing in hydraulic	1.	Take unit to a Wagner authorized service center.
	the upward stroke is sluggish. The outside of the hydraulic motor is very hot.		or. on rod is broken.	2.	Take unit to a Wagner authorized service center.
D.	Low pressure. The outside of the hydraulic motor becomes very	1. Mido fault	dle O-ring on reversing valve is	1.	Take unit to a Wagner authorized service center.
	hot when stroking upward and downward.	2. Pack	y. sings in the material feed pump worn.	2.	Replace

#### Remedy in case of faults

#### Material feed pump 9.4

Type of malfunction		Possible cause		Measures for eliminating the malfunction		
A.	A sufficient amount of coating material is ejected only with an upward stroke, or upward motion of the piston rod is slow and downward motion is fast	1. 2.	Inlet valve is leaky due to impurities or wear. Coating material viscosity is too high, preventing it from being sucked up.	1. 2.	Clean and check the inlet valve housing. Insert ball and fil with water; if leaky, replace ball. Thin out according to the manufacturer's instructions.	
В.	A sufficient amount of coating material is ejected only with a downward stroke, or downward motion of the piston rod is slow and upward motion is fast.	1. 2.	Outlet valve leaky. Lower packing is worn.	1. 2.	Dismantle and check outlet valve seat. Insert ball and fill with water; if leaky, replace ball. Replace.	
C.	Piston rod moves up and down quickly.	1. 2. 3.	Suction tube projects over the fluid level and sucks in air. Coating material viscosity is too high, preventing it from being sucked up. Ball in inlet valve housing is stuck.	1. 2. 3.	Refill the coating material Thin out the coating material according to manufacturer instructions. Vent air from material feed pump and turn the relief valve knob to the left (O Circulation).	
D.	Piston rod moves up and down slowly when the spray gun is closed.	1. 2. 3. 4. 5.	Loose connections. Relief valve is not closed completely. Relief valve worn. Lower packing worn. Ball in inlet valve housing and ball in outlet valve seat are not sealing properly.	1. 2. 3. 4. 5.	Dismantle inlet valve housing, clean ball and valve seat. Check all connections between the material feed pump and spray gun. Turn relief valve handle (3) fully clockwise ( <sup>a</sup> 7 spray). Replace If the measures described above do not help, replace lower packing. Dismantle inlet valve housing and outlet valve seat. Clear balls and valve seats.	
E.	Not enough pressure to the spray gun.	1. 2. 3.	Tip is worn. Filter cartridge in high-pressure filter is clogged. High-pressure hose is too long.	1. 2. 3.	Clean or replace the filter cartridge.	
F.	Piston rod sputters when stroking upward or downward.	1.	Solvent has made the upper packing expand.	1.	Replace upper packing.	

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#### 10. Servicing

#### 10.1 General servicing

The unit should be serviced once a year by the Wagner Service.

- 1. For servicing of the gasoline engine, refer to the engine instructions.
- 2. Check the high-pressure hoses for damage.
- 3. Check the inlet and outlet vents for wear.
- 4. Check oil level in hydraulic oil tank.
- 5. Carry out an oil change if necessary.

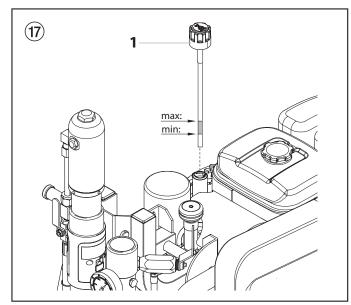
#### 10.2 Checking the oil level in the hydraulic oil tank



Gasoline units — Check oil level daily.

Electric units — Switch off unit "O" (OFF). Remove the mains plug from the socket.

- 1. Turn oil measuring stick (fig. 17, item 1) to the left and pull out.
- 2. The oil level should be visible between the marking (see arrows) on the oil measuring stick.
- 3. If necessary, refill oil. For information on the oil grade, refer to the oil change section, chapter 10.3.



## 10.3 Oil and oil filter change ot the hydraulic oil pump

Carry out oil and oil filter change once every 12 months.



#### Danger to the environment

Do not dispose of waste oil into the sewer or soil. Polluting the ground water is a crime. Waste oil can be returned where hydraulic oil is bought.



Carry out an oil change while the unit is still warm from operation.



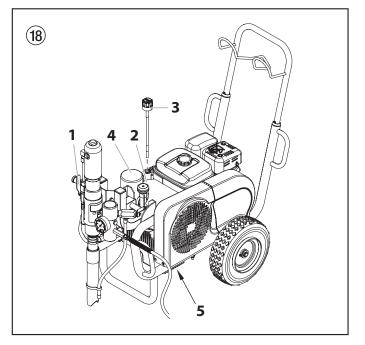
#### Electric units — Switch off unit "O" (OFF). Remove the mains plug from the socket.

- 1. Turn off the gasoline engine or electric motor.
- 2. Move the hydraulic ball valve (fig. 18, item 1) on the material feed pump to its vertical position (open).
- 3. Remove the screws on the hydraulic oil pump cover (2) and remove cover.
- 4. Turn oil measuring stick (3) to the left and pull out.
- 5. Screw out oil filter (4) with a strap spanner and replace.
- 6. Screw out sealing screw (5) under the hydraulic oil tank. Drain the waste oil.
- 7. Replace the sealing screw into the hydraulic oil tank.
- 8. Fill in 4.7 liters of ESSO ISO 32 hydraulic oil.



### When oil is filled in, air can enter the hydraulic system. Therefore, the system must be vented.

9. Let the unit run for at least five minutes at low pressure to automatically bleed the air from the hydraulic system.



#### 10.4 High-pressure hose

Inspect the high-pressure hose visually for any notches or bulges, in particular at the transition in the fittings. It must be possible to turn the union nuts freely.



The risk of damage rises with the age of the highpressure hose. Wagner recommends replacing highpressure hoses after 6 years.

#### 11. Appendix

#### 11.1 Selection of tip

To achieve faultless and rational working, the selection of the tip is of the greatest importance. In many cases the correct tip can only be determined by means of a spraying test.

#### Some rules for this:

The spray jet must be even.

If streaks appear in the spray jet the spraying pressure is either too low or the viscosity of the coating material to high.

Remedy: Increase pressure or dilute coating material. Each pump conveys a certain quantity in proportion to the size of the tip:

The following principle is valid:	large tip 😑	low pressure
	11.7	1 * 1

small tip = high pressure

There is a large range of tips with various spraying angles.

#### 11.2 Servicing and cleaning of Airless hard-metal tips

#### Standard tips

If a different tip type has been fitted, then clean it according to manufacturer's instructions.

The tip has a bore processed with the greatest precision. Careful handling is necessary to achieve long durability. Do not forget the fact that the hard-metal insert is brittle! Never throw the tip or handle with sharp metal objects.

#### The following points must be observed to keep the tip clean and ready for use:

- 1. Turn the relief valve handle fully counterclockwise ( $\bigcirc$  Circulation).
- 2. Switch off the gasoline engine.
- 3. Dismount the tip from the spray gun.
- 4. Place tip in an appropriate cleaning agent until all coating material residue is dissolved.
- 5. If there is pressure air, blow out tip.
- 6. Remove any residue by means of a sharp wooden rod (toothpick).
- 7. Check the tip with the help of a magnifying glass and, if necessary, repeat points 4 to 6.

#### 11.3 Spray gun accessories



Flat jet adjusting tip up to 250 bar (25 MPa

Tip marking	Bore mm	Spray width at about 30 cm removal of spray object Pressure 100 bar (10 MPa)	Use	Flat jet adjusting tip Order No.
15	0.13 - 0.46	5 - 35 cm	Paints	0999 057
20	0.18 - 0.48	5 - 50 cm	Paints, fillers	0999 053
28	0.28 - 0.66	8 - 55 cm	Paints, dispersions	0999 054
41	0.43 - 0.88	10 - 60 cm	Rust protection paints - dispersions	0999 055
49	0.53 - 1.37	10 - 40 cm	Large-area coats	0999 056

## **Contact protection** for the flat jet adjustment tip



Order No. **0097 294** 

Tip extension with slewable knee joint (without tip)



 Length:
 100 cm
 Order no.
 0096 015

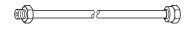
 Length:
 200 cm
 Order no.
 0096 016

 Length:
 300 cm
 Order no.
 0096 017

er no. **0096 015** er no. **0096 016** 

#### **Tip extension**

15 cm, F-thread, Order no. **0556 051** 30 cm, F-thread, Order no. **0556 052** 45 cm, F-thread, Order no. **0556 053** 60 cm, F-thread, Order no. **0556 054** 



15 cm, G-thread, Order no. **0556 074** 30 cm, G-thread, Order no. **0556 075** 45 cm, G-thread, Order no. **0556 076** 60 cm, G-thread, Order no. **0556 077** 

#### 11.4 Airless tip table



Wagner TradeTip 3 tip up to 270 bar (27 MPa)



without tip F thread (11/16 - 16 UN) for Wagner spray guns **Order no. 0289391**  without tip G thread (7/8 - 14 UN) for Graco/Titan spray guns **Order no. 0289390** 



## All of the tips in the table below are supplied together with the appropriate gun filter.

Application	Tip marking	Spray angle	Bore inch / mm	Spraying width mm 1)	Gun filter	Order no.
Water-thinnable and solvent-based paints and varnishes, oils, separat- ing agents	107 207 307 407 109 209 309 409 509 609	10° 20° 30° 40° 20° 30° 40° 50° 60°	0.007 / 0.18 0.007 / 0.18 0.007 / 0.18 0.009 / 0.23 0.009 / 0.23 0.009 / 0.23 0.009 / 0.23 0.009 / 0.23 0.009 / 0.23	100 120 150 190 100 120 150 150 190 225 270	red red red red red red red red red	0553107 0553207 0553307 0553407 0553109 0553209 0553309 0553409 0553409 0553509
Synthetic-resin paints PVC paints	111 211 311 411 511 611	10° 20° 30° 40° 50° 60°	0.011/0.28 0.011/0.28 0.011/0.28 0.011/0.28 0.011/0.28 0.011/0.28	100 120 150 190 225 270	red red red red red red	0553111 0553211 0553311 0553411 0553511 0553611
Paints, primers Fillers	113 213 313 413 513 613 813	10° 20° 30° 40° 50° 60° 80°	0.013 / 0.33 0.013 / 0.33 0.013 / 0.33 0.013 / 0.33 0.013 / 0.33 0.013 / 0.33 0.013 / 0.33	100 120 150 190 225 270 330	red red red red red red red	0553113 0553213 0553313 0553413 0553513 0553613 0553813
Fillers Rust protection paints	115 215 315 415 515 615 715 815	10° 20° 30° 40° 50° 60° 70° 80°	0.015 / 0.38 0.015 / 0.38	100 120 150 190 225 270 300 330	yellow yellow yellow yellow yellow yellow yellow yellow	0553115 0553215 0553315 0553415 0553515 0553615 0553715 0553715
Rust protection paints Latex paints Dispersions	117 217 317 417 517 617 717 817	10° 20° 30° 40° 50° 60° 70° 80°	0.017 / 0.43 0.017 / 0.43	100 120 150 190 225 270 300 330	yellow yellow yellow yellow yellow yellow yellow yellow	0553117 0553217 0553317 0553417 0553517 0553617 0553617 0553817
Rust protection paints Latex paints Dispersions	219 319 419 519 619 719 819 919	20° 30° 40° 50° 60° 70° 80° 90°	0.019 / 0.48 0.019 / 0.48	120 150 225 270 300 330 385	white white white white white white white white white	0553219 0553319 0553419 0553519 0553619 0553719 0553819 0553819 0553919
Flame retardant	221 321 421 521 621 721 821	20° 30° 40° 50° 60° 70° 80°	0.021 / 0.53 0.021 / 0.53 0.021 / 0.53 0.021 / 0.53 0.021 / 0.53 0.021 / 0.53 0.021 / 0.53	120 150 190 225 270 300 330	white white white white white white white	0553221 0553321 0553421 0553521 0553621 0553721 0553821

1)Spray width at about 30 cm to the object and 100 bar (10 MPa) pressure with synthetic-resin paint 20 DIN seconds.

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Application	Tip marking	Spray angle	Bore inch / mm	Spraying width mm 1)	Gun filter	Order no.	
Roof coatings	223         20°           323         30°           423         40°           523         50°           623         60°           723         70°           823         80°		0.023 / 0.58 0.023 / 0.58	120 150 190 225 270 300 330	white white white white white white white	0553223 0553323 0553423 0553523 0553623 0553723 0553823	
Thick-film materials, Corrosion protection Spray filler	225 325 425 525 625 725 825 227 327 427 527 627 827 229 329 429 529 629 629 629 629 629 629 629 629 629 6	20° 30° 40° 50° 60° 70° 80° 20° 30° 40° 50° 60° 20° 30° 40° 50° 60° 20° 30° 40° 50° 60° 20° 30° 40° 50° 60° 20° 30° 40° 50° 60° 70° 80° 20° 30° 40° 50° 60° 70° 80° 20° 30° 40° 50° 60° 70° 80° 20° 30° 40° 50° 60° 70° 80° 20° 30° 40° 50° 60° 50° 60° 50° 60° 50° 60° 50° 60° 50° 60° 50° 60° 50° 60° 50° 60° 50° 60° 50° 60° 50° 60° 50° 60° 50° 60° 50° 60° 50° 60° 50° 60° 50° 60° 50° 60° 50° 60° 50° 60° 20° 30° 40° 50° 60° 50° 60° 20° 30° 40° 50° 60° 50° 60° 50° 60° 50° 60° 50° 60° 20° 30° 40° 50° 60° 50° 60° 50° 60° 20° 30° 40° 50° 60° 50° 60° 50° 60° 50° 60° 50° 60° 50° 60° 50° 60° 50° 60° 50° 60° 50° 60° 50° 60° 50° 60° 50° 60° 50° 60° 50° 60° 50° 60° 50° 60° 50° 60° 50° 60° 50° 60° 50° 50° 60° 50° 60° 50° 50° 60° 50° 50° 60° 50° 50° 60° 50° 50° 60° 50° 50° 60° 50° 50° 60° 50° 50° 60° 50° 50° 50° 60° 50° 50° 50° 50° 50° 50° 50° 50° 50° 5	0.025 / 0.64 0.025 / 0.64 0.027 / 0.69 0.027 / 0.69 0.029 / 0.75 0.029 / 0.75 0.031 / 0.79 0.031 / 0.79 0.031 / 0.79 0.031 / 0.79 0.031 / 0.79 0.031 / 0.79 0.031 / 0.79 0.033 / 0.83 0.033 / 0.83 0.033 / 0.83 0.035 / 0.90 0.035 / 0.90	120         150         190         225         270         300         330         120         150         190         225         270         330         120         150         190         225         270         150         190         225         270         150         190         225         270         330         120         150         190         225         270         330         120         150         190         225         270         120         150         190         225         270         300         190         225         270         300         190         225         270         300         190         2	white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white	0553225 055325 055325 0553625 0553725 0553825 0553827 0553827 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0553835 0553835 0553835 0553835 0553835 0553835 0553835 0553835 0553835 0553835 0553835 0553835 0553835 0553835 0553835 0553835 0553835 0553835 0553835 0553835 0553835 0553835 0553835 0553835 0553835 0553835 0553835 0553835 0553835 0553835 0553835 0553835 0553835 0553835 0553835 0553835 0553835 0553835 0553835 0553835 0553835 0553835 0553835 0553835 0553835 0553835 0553835 0553835 0553835 0553835 0553835 0553835 0553835 0553835 0553835 0553835 0553835 0553835 0553835 0553835 0553835 0553835 0553835 0553835 0553835 0553835 0553835 0553835 0553835 0553835 0553835 0553835 0553835 0553835 0553835 0553835 0553835 0553835 0553835 0553835 0553835 0553835 0553835 0553835 0553835 0553835 0553835 0553835 0553835 0553835 0553835 0553835 0553835 0553835 0553835 0553835 0553835 0553835 0553835 0553835 0553835 0553835 0553835 0553835 0553835 0553835 0553835 0553835 0553835 0553835 0553835 0553835 0553835 0553835 055385 0553835 0553835 0553835 0553835 0553835 0553835 0553835 0553835 05	
Heavy duty applications	243 443 543 643 445 545 645 451 551 651 252 455 555 655 261 461 561 661 263 463 463 565 665 267 467	$\begin{array}{c} 20^{\circ} \\ 40^{\circ} \\ 50^{\circ} \\ 60^{\circ} \\ 40^{\circ} \\ 50^{\circ} \\ 60^{\circ} \\ 20^{\circ} \\ 20^{\circ$	$\begin{array}{c} 0.043  /  1.10 \\ 0.043  /  1.10 \\ 0.043  /  1.10 \\ 0.043  /  1.10 \\ 0.045  /  1.14 \\ 0.045  /  1.14 \\ 0.051  /  1.30 \\ 0.051  /  1.30 \\ 0.051  /  1.30 \\ 0.051  /  1.30 \\ 0.055  /  1.40 \\ 0.055  /  1.40 \\ 0.055  /  1.40 \\ 0.055  /  1.40 \\ 0.055  /  1.40 \\ 0.055  /  1.40 \\ 0.061  /  1.55 \\ 0.061  /  1.55 \\ 0.061  /  1.55 \\ 0.063  /  1.60 \\ 0.065  /  1.65 \\ 0.065  /  1.65 \\ 0.067  /  1.70 \\ 0.067  /  1.70 \\ 0.067  /  1.70 \\ 0.067  /  1.70 \\ \end{array}$	120 190 225 270 190 225 270 190 225 270 120 190 225 270 120 190 225 270 120 190 225 270 120 190 225 270 120 190 225 270 190 225 270 190 190 225 270 190 190 225 270 190 190 225 270 190 190 225 270 190 190 225 270 190 190 225 270 190 190 225 270 190 190 225 270 190 225 270 190 225 270 190 225 270 190 225 270 190 225 270 190 225 270 190 225 270 190 225 270 190 225 270 190 225 270 190 225 270 120 190 225 270 120 190 225 270 120 190 225 270 120 190 225 270 120 190 225 270 120 190 225 270 120 190 225 270 120 190 225 270 120 190 225 270 120 190 225 270 120 190 225 270 120 190 225 270 120 190 225 270 120 190 190 225 270 120 190 190 225 270 120 190 190 225 270 120 190 190 225 270 120 190 190 225 270 120 190	green green green green green green green green green green green green green green green green green green green green green green green green green green green green	0553243 0553443 0553543 0553643 0553645 0553645 0553545 0553551 0553551 0553555 0553655 0553555 0553661 0553661 0553661 0553661 0553663 0553665 0553665 0553665 0553665 0553665	

1)Spray width at about 30 cm to the object and 100 bar (10 MPa) pressure with synthetic-resin paint 20 DIN seconds.

#### 11.5 2Speed Tip table



The innovative changeover nozzle from WAGNER combines two nozzle cores into one nozzle.



2 Speed Tip holder Order no. 0271065

#### Tip table

Object size	Painting material									
	Lacquer (L)	Emulsion (D)	Filler (S)							
		D5 Nozzles: 111 / 415 <b>Order no. 0271 062</b>	S5 Nozzles: 225 / 629 <b>Order no. 0271 064</b>							
Small		D7 Nozzles: 113 / 417 <b>Order no. 0271 063</b>								
	L10 Nozzles: 208 / 510 <b>Order no. 0271 042</b>	D10 Nozzles: 111 / 419 <b>Order no. 0271 045</b>	S10 Nozzles: 527 / 235 <b>Order no. 0271 049</b>							
Medium	L20 Nozzles: 210 / 512 <b>Order no. 0271 043</b>	D20 Nozzles: 115 / 421 <b>Order no. 0271 046</b>	S20 Nozzles: 539 / 243 <b>Order no. 0271 050</b>							
Large	L30 Nozzles: 212 / 514 <b>Order no. 0271 044</b>	D30 Nozzles: 115 / 423 <b>Order no. 0271 047</b>	S30 Nozzles: 543 / 252 <b>Order no. 0271 051</b>							
X-Large		D40 Nozzles: 117 / 427 <b>Order no. 0271 048</b>								
Recommended gun filter	red	white	-							

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#### www.wagner-group.com



#### Important notes on product liability

As a result of an EC regulation being effective as from January 1, 1990, the manufacturer shall only be liable for his product if all parts come from him or are released by him, and if the devices are properly mounted and operated.

If the user applies outside accessories and spare parts, the manufacturer's liability can fully or partially be inapplicable; in extreme cases usage of the entire device can be prohibited by the competent authorities (employer's liability insurance association and factory inspectorate division).

Only the usage of original WAGNER accessories and spare parts guarantees that all safety regulations are observed.

#### 3+2 years guarantee for professional finishing

Wagner professional guarantee (Status 01.02.2009)

#### 1. Scope of guarantee

All Wagner professional colour application devices (hereafter referred to as products) are carefully inspected, tested and are subject to strict checks under Wagner quality assurance. Wagner exclusively issues extended guarantees to commercial or professional users (hereafter referred to as "customer") who have purchased the product in an authorised specialist shop, and which relate to the products listed for that customer on the Internet under www.wagner-group.com/profi-guarantee.

The buyer's claim for liability for defects from the purchase agreement with the seller as well as statutory rights are not impaired by this guarantee.

We provide a guarantee in that we decide whether to replace or repair the product or individual parts, or take the device back and reimburse the purchase price. The costs for materials and working hours are our responsibility. Replaced products or parts become our property.

#### 2. Guarantee period and registration

The guarantee period amounts to 36 months. For industrial use or equal wear, such as shift operations in particular, or in the event of rentals it amounts to 12 months.

Systems driven by petrol or air are also guaranteed for a 12 month period.

The guarantee period begins with the day of delivery by the authorised specialist shop. The date on the original purchase document is authoritative.

For all products bought in authorised specialist shops from 01.02.2009 the guarantee period is extended to 24 months providing the buyer of these devices registers in accordance with the following conditions within 4 weeks of the day of delivery by the authorised specialist shop.

Registration can be completed on the Internet under www.wagner-group. com/profi-guarantee. The guarantee certificate is valid as confirmation, as is the original purchase document that carries the date of the purchase. Registration is only possible if the buyer is in agreement with having the data being stored that is entered during registration.

When services are carried out under guarantee the guarantee period for the product is neither extended nor renewed.

Once the guarantee period has expired, claims made against the guarantee or from the guarantee can no longer be enforced.

#### 3. Handling

If defects can be seen in the materials, processing or performance of the device during the guarantee period, guarantee claims must be made immediately, or at the latest within a period of 2 weeks.

The authorised specialist shop that delivered the device is entitled to accept guarantee claims. Guarantee claims may also be made to the service centres named in our operating instructions. The product has to be sent without charge or presented together with the original purchase document that includes details of the purchase date and the name of the product. In order to claim for an extension to the guarantee, the guarantee certificate must be included.

The costs as well as the risk of loss or damage to the product in transit or by the centre that accepts the guarantee claims or who delivers the repaired product, are the responsibility of the customer.

#### 4. Exclusion of guarantee

Guarantee claims cannot be considered

- for parts that are subject to wear and tear due to use or other natural wear and tear, as well as defects in the product that are a result of natural wear and tear, or wear and tear due to use. This includes in particular cables, valves, packaging, jets, cylinders, pistons, meanscarrying housing components, filters, pipes, seals, rotors, stators, etc. Damage due to wear and tear that is caused in particular by sanded coating materials, such as dispersions, plaster, putty, adhesives, glazes, quartz foundation.
- in the event of errors in devices that are due to non-compliance with the operating instructions, unsuitable or unprofessional use, incorrect assembly and/or commissioning by the buyer or by a third party, or utilisation other than is intended, abnormal ambient conditions, unsuitable coating materials, unsuitable operating conditions, operation with the incorrect mains voltage supply/frequency, overoperation or defective servicing or care and/or cleaning.
- for errors in the device that have been caused by using accessory parts, additional components or spare parts that are not original Wagner parts.
- for products to which modifications or additions have been carried out.
- for products where the serial number has been removed or is illegible
- for products to which attempts at repairs have been carried out by unauthorised persons.
- for products with slight deviations from the target properties, which are negligible with regard to the value and usability of the device.
- for products that have been partially or fully taken apart.

#### 5. Additional regulations.

The above guarantees apply exclusively to products that have been bought by authorised specialist shops in the EU, CIS, Australia and are used within the reference country.

If the check shows that the case is not a guarantee case, repairs are carried out at the expense of the buyer.

The above regulations manage the legal relationship to us concludingly. Additional claims, in particular for damages and losses of any type, which occur as a result of the product or its use, are excluded from the product liability act except with regard to the area of application.

Claims for liability for defects to the specialist trader remain unaffected. German law applies to this guarantee. The contractual language is German. In the event that the meaning of the German and a foreign text of this guarantee deviate from one another, the meaning of the German text has priority.

J. Wagner GmbH Division Professional Finishing Otto Lilienthal Strasse 18 88677 Markdorf Federal Republic of Germany

12.02.13 2336497_HC_950_970_Benzin.doc	Wagner-Nr. 2336497	Markdorf, 14.12.2012 Location, Date	Angewendete nationale technische Spezifikationen, insbesondere:	Angewendete harmonisierte Normen, insbesondere:	2006/42 EG	folgenden einschlägigen Bestimmungen entspricht:	Hiermit erklären wir, daß die Bauart vom Airless Hochdruck-Spritzgerät, benzinbetrieben	CE Konformitätserklärung		WAGNER
	Hr. T. Jeltsch (Mr.)		DIN EN ISO 12100: 201 Applied national technical standards and specifications, in particular:	Applied harmonized standards, in particular:	2006/42 EC	complies with the following provisons applying to it:	Herewith we declare that the supplied version of Airless high-pressure spraying unit, gas powered Wagner	CE Declaration of conformity	GB	
		el 2.29, 2.36 Signature ng & Strategy	DIN EN ISO 12100: 2011-03, DIN EN 1953:2011-7 nal technical standards and Normes et specifications techniques nationales qui ont été utilisées, notamment:	Normes harmonisée utilisées, notamment:	2006/42 CE	יות שטע, העשטע אור ארע אוע אוע אוע און	Par la présente, nous déclarons, que le type de Groupe de projection à haute pression, à essence HeavyCoat	<b>C</b> E Déclaration de conformité		J. Wagner GmbH Otto I
MD-STEK-QrF-586-11.10.99 Seite 1/2	Hr. J. Ulbrich (Mr.) Dokumentationsverantwortlicher Responsible person for documents Responsable de la documentation Responsabile della documentazione	J. Micl Vice President Engineering	Gebruikte nationale technische normen en specificaties, in het bijzondere:	Norme armonizzate applicate, in particolare:	2006/42 CE	é conforme alle segenti disposizioni pertinenti:	Si dichiara che il modello Impianto per la verniciatura a spruzzo ad alta pressione Airless, azionato a benzina	<b>C</b> E Dichiarazione di conformitá	$\bigcirc$	J. Wagner GmbH Otto Lilienthal-Str.18 D-88677 Markdorf

HC 950 • HC 970

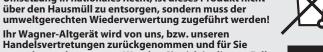
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12.02.13 2326406 HC 650 6705 400	Wagner-Nr. 2336498	Markdorf, 14.12.2012 Location, Date	<b>DIN EN 61000-6-1</b> Angewendete nationale technische Spezifikationen, insbesondere:		Angewendete harmonisierte Normen, insbesondere:	2006/42 EG	folgenden einschlägigen Bestimmungen entspricht:	HC 950 1~ 230V/50Hz	Hiermit erklären wir, daß die Bauart vom Airless Hochdruck-Spritzgerät	CE Konformitätserklärung	Q	WAGNER
	Hr. T. Jeltsch (Mr.)		DIN EN 61000-6-1:2007-10, DIN EN 61000-6-3:2012-11, DIN EN 61000-3-2 :2010-03, DIN EN 61000-3-3 :2009-06         nale technische       Applied national technical standards and specifications, in particular:       Normes et specifications techniques       Gebruikte nationale technises, in het bijzon         besondere:       specifications, in particular:       notamment:       specificaties, in het bijzon         BGR 500 /2/ Kapitel 2.29, 2.36       1       1	DIN EN ISO 12100: 2011-03, DIN EN 1953: 2011-07, DIN E	Applied harmonized standards, in particular:	2006/42 EC	complies with the following provisons applying to it:	HC 950 1~ 230V/50Hz; HC 970 3~ 400V/50Hz; HC 950 SSP 1~ 230	Herewith we declare that the supplied version of Airless high-pressure spraying unit <b>Wagner</b>	<b>C C E</b> Declaration of conformity	GB	
		Ō	000-6-3:2012-11, DIN EN 61000-3-2 :2010-03, DIN cal standards and Normes et specifications techniques ular: notamment: BGR 500 /2/ Kapitel 2.29, 2.36	1953: 2011-07, DIN EN 60204-1:2011-1,	Normes harmonisée utilisées, notamment:	2006/42 CE	correspond aux dispositions pertinentes suivantes:	C 950 SSP 1~ 230V/50Hz; H	<ul> <li>supplied Par la présente, nous déclarons, que le type de</li> <li>ng unit Groupe de projection à haute pression</li> <li>Wagner HeavyCoat</li> </ul>	CE Déclaration de conformité		J. Wagner GmbH Otto
MD-STEK-QrF-586-11.10.99	Hr. J. Ulbrich (Mr.) Dokumentationsverantwortlicher Responsible person for documents Responsable de la documentation Responsabile della documentazione	Vice President Engineering	I EN 61000-3-3 :2009-06 Gebruikte nationale technische normen en specificaties, in het bijzondere:	011-1,	Norme armonizzate applicate, in particolare:	2006/42 CE	é conforme alle segenti disposizioni pertinenti:	V/50Hz: HC 970 SSP 3~ 400V/50Hz	Si dichiara che il modello Impianto per la verniciatura a spruzzo ad alta pressione Airless	C E Dichiarazione di conformitá	$\bigcirc$	J. Wagner GmbH Otto Lilienthal-Str.18 D-88677 Markdorf



#### **Entsorgungshinweis:**

Gemäß der europäischen Richtlinie 2002/96/EG zur Entsorgung von Elektro-Altgeräten, und deren Umsetzung in nationales Recht, ist dieses Produkt nicht über den Hausmüll zu entsorgen, sondern muss der umweltgerechten Wiederverwertung zugeführt werden!



Handelsvertretungen zurückgenommen und für Sie umweltgerecht entsorgt. Wenden Sie sich in diesem Fall an einen unserer Service-Stützpunkte, bzw. Handelsvetretungen oder direkt an uns.



Note on disposal:

In observance of the European Directive 2002/96/ EC on waste electrical and electronic equipment and implementation in accordance with national law, this product is not to be disposed of together with household waste material but must be recycled in an environmentally friendly way!



Wagner or one of our dealers will take back your used Wagner waste electrical or electronic equipment and will dispose of it for you in an environmentally friendly way. Please ask your local Wagner service centre or dealer for details or contact us direct.

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