



# ELECTRIC HVLP PAINT SPRAYER


## USER MANUAL

[Revision 2.0 August 2019]

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READ THIS MANUAL CAREFULLY BEFORE USE – FAILURE TO DO SO MAY RESULT IN INJURY, PROPERTY DAMAGE AND MAY VOID WARRANTY. • KEEP THIS MANUAL FOR FUTURE REFERENCE. • Products covered by this manual may vary in appearance, assembly, inclusions, specifications, description and packaging.

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**PUMP WILL BE DESTROYED**  
**if you don't FULLY FLUSH &**  
**clean the entire system within**  
**5 MINUTES of spraying.**

Leaving paint in the system for longer than 5 minutes without spraying will destroy the pump.  
Spray function warranty void if full flush/clean is not completed within 5 minutes of spraying.

### PAINT THINNING REQUIRED

Paint must be thinned by approx 15%.  
Use water to thin water-based paint.  
Use turps to thin oil-based paint.  
For 1 litre of paint, add 150ml of water/turps.  
For 5 litres of paint, add 750ml of water/turps.  
Stir the paint well after the water/turps has been added.  
If the spray is still not fine enough or the flow is inadequate, try thinning the paint a little more.



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## PRODUCT DESCRIPTION

Electric HVLP Paint Sprayer is the perfect system for precision painting. It is very easy to use and absolutely safe, since the maximum operating pressure is 0.15 bar. Reduced paint atomisation makes the work healthier and saves paint.

All these advantages are guaranteed by using the "HVLP high-volume low-pressure air system to paint at constant air pressure and volume.

## PROPER DISPOSAL

To protect the environment, follow the procedures indicated in the current standards for the area where the product is used. Do not throw the packaging into waste bins. It should be re-used, if possible. When the machine can no longer be used or repaired, disassemble the parts for sorted waste disposal. All plastic parts bear an ID code indicating the materials used in such parts: this will be used in the future for recycling.

## SAFETY RULES



### WARNING!

- Before using this electronic tool, carefully read and apply the safety rules and instructions indicated below.
- Before starting to work, make sure that you know how to stop the machine in case of an emergency.
- Keep these instructions in a safe place where they can be easily consulted when the need arises.

## ELECTRICAL SAFETY RULES

1. Make sure that the power supply voltage is the same as the value indicated on the machine.
2. Periodically check the power cord for any damage or ageing. If the cord is no longer in good condition, the machine should not be used. Replace it with an original spare cord.
3. The power cord or extension should not cross through areas used for moving transport or maintenance equipment.
4. The Electric HVLP Paint Sprayer is built with a double insulation system. The double insulation enhances electric safety and thus the machine need not be grounded.

## GENERAL SAFETY RULES

1. Use the handle to move the machine. Do not pull it by the power cord or by the supply hose.
2. Do not allow the machine to get wet or be exposed to humidity.
3. To carry out any cleaning or maintenance or other operations on the machine, disconnect it from the mains supply first, then pull out the plug without pulling on the power cord.
4. Keep the Electric HVLP Paint Sprayer away from children, other persons and animals.
5. Do not aim the Electric HVLP Paint Sprayer at other persons or animals.

6. Persons less than 16 years old are prohibited from using the paint sprayer.

**WARNING!**

**Carefully comply with the following safety rules.**

The Electric HVLP Paint Sprayer has been designed to be used mainly with cold-water paints. Other products (paint, thinner, etc.) may contain hazardous, harmful, explosive or corrosive materials.

- Carefully read the label of the product (paint) being used.
- It is recommended to wear a protective mask while painting and to wear gloves when using and cleaning the machine.
- Use the machine in well-ventilated rooms.
- Carefully follow the suggestions indicated on the label of the product being used. Use only products with a flashpoint higher than 22°C.
- Do not smoke and do not use objects that may generate sparks given that the solvents used may be inflammable.

## **INSTALLATION**

1. Make sure that the power supply voltage is the same as the value indicated on the machine technical data plate.
2. Make sure that the switch is in position "O."
3. Connect the machine plug to an extension (minimum 1,200W).
4. Connect the hose to the multistage centrifugal blower.
5. Fit the support belt.

## **PAINT AND MATERIALS USED**

Paint manufacturers often specify the percentage for thinning the products, in general this refers to brush or roller applications. In fact, with the paint sprayer the percentage will be higher.

Tell your paint supplier that the product will be applied using a HVLP (high-volume and low-pressure) paint sprayer.

Generally, in such case, the product must be thinned (try thinning a small amount of paint before thinning all of it).

## **VISCOSITY**

"Viscosity" is the technical term used to indicate if a liquid product is very thin or very thick: in the former the viscosity is low, while in the latter it is considered to be high. The viscosity measurement is expressed in seconds. To measure viscosity, fill the viscosity meter supplied with the machine with paint, and note how long it takes for the paint to pass through the hole at the bottom of the viscosity meter. The time measured is the viscosity value and is expressed in DIN-s.

## GENERALITY

This machine can use products with a viscosity ranging from 10 to a maximum of 35 (35 DIN-s).

A paint with a much higher viscosity can be used only for water-soluble products for outdoor and indoor wall applications. The quantity and type of paint are very important.

The main viscosity values for the most commonly used products are:

Filler	10 to 20 DIN-s	no thinning
Wood dye	15 to 25 DIN-s	no thinning
2-pack paint oil paint	20 to 35 DIN-s	see manufacturer's instructions

The product manufacturer's instructions for the type of thinner and the quantity, in percentage to be added (this may vary from 5 to 50%).

## PREPARATIONS

### PREPARING THE SURFACE

To obtain good results, the objects or surface to be treated must be cleaned.

- Remove any traces of rust or scaling from the old paint and, if necessary, rub it using sandpaper.

Stucco or rub with sandpaper, where necessary, to make the surface smooth.

- Carefully read the instructions indicated on the paint can. Manufacturers usually suggest to apply a fixative before painting to obtain the best results and, above all, to save paint.

### PREPARING THE WORK PIECE FOR PAINTING

Shake well. Pour paint inside the paint sprayer reservoir, without filling it to the top (maximum  $\frac{3}{4}$ ). Use a stick to mix and stir the product.

Thin the product following the manufacturer's instructions. If necessary **GRADUALLY ADD THINNER AFTER MAKING TESTS ON A PIECE OF CARDBOARD OR WOOD.**

After checking that the product has been correctly thinned, the entire work piece can now be thinned. For more specific information about viscosity, refer to the [Viscosity](#) section.



# HVPL PAINT SPRAYER

Mount the paint sprayer container and tighten it fully.

Connect the hose to the paint sprayer grip.

To select the type of spray required, loosen the adjustment ring, adjust the position, orienting the nozzle to obtain:

**HH** Horizontal spray

**VV** Vertical spray

**CC** Round spray

The gasket includes 4 orientation notches that help position the butterfly nozzle. The position is fixed by a tab that protrudes from the bottom.

After selecting the type of spray, tighten the adjustment ring. The horizontal or vertical sprays (HH -VV) are recommended for large surfaces. The round spray (CC) is used for small objects or for areas that are difficult to reach (corners, angles, etc.).

## PAINT SPRAYER OPERATION AND USE

The atomiser supplies the compressed air needed to operate the machine.

Air flows from the butterfly nozzle and paint is sprayed only when the trigger is pulled.

### START-UP

Turn the switch ON/OFF to start the machine.

### ADJUSTMENTS

The spray can be adjusted very easily as follows:

- Completely close the adjustment screw by turning it to the right.
- Keep pulling the trigger and slowly open the paint screw until the correct amount of paint is obtained.
- The paint sprayer should be moved with a regular motion and always kept at the same distance (from 10 to 30 cm) depending on the adjustment and type of paint used), and should always be parallel to the surface of the object being treated.



#### WARNING!

**Never use a circular movement; this might damage the quality of the finish. Release the trigger at the end of each forward movement and pull it again when the return movement has started.**

**This will avoid any joining marks caused by a second coat, especially for large surfaces.**

**The movement must be horizontal if the spray is vertically aligned or vertical if the spray is horizontally aligned.**

**The round spray (CC) requires a greater distance from the object to be painted. In any case, make tests on a piece of cardboard or wood before painting.**

## **THINNING**

### **Inadequate Thinning:**

- Paint must be thinned by approx. 15% when using a paint sprayer.
- Use water to thin water-based paint.
- Use turps to thin oil-based paint.
- For 1 litre of paint, add 150ml of water/turps.
- For 5 litres of paint, add 750ml of water/turps.
- Be sure to stir the paint well after the water/turps has been added.
- If the spray is still not fine enough or the flow is inadequate, try thinning the paint a little more.
- Do not thin bulk amounts of paint until you have determined the ideal amount and tested it through the sprayer.

## **OTHER USES OF THE PAINT SPRAYER**

By connecting the fitting to the hose, the paint sprayer can also be used to blow or inflate mattresses or other inflatable objects.

## **MAINTENANCE AND CLEANING**

The paint sprayer must be thoroughly cleaned immediately after use. If the paint dries inside the paint sprayer, cleaning will be much more difficult and it may no longer be possible use the paint sprayer. Use the thinner (or solvent) recommended by the paint manufacturer and clean the paint sprayer in a well ventilated room. Follow the safety instructions as described:

### **PAINT SPRAYER**

1. Disassemble the paint sprayer reservoir.
2. Pour any residual paint into its container and seal it so that it can be used in the future.
3. Pour the thinner (in small amounts) into the reservoir. Shake the paint sprayer lightly and atomise the thinner into a cleaning container. Repeat the operation until the thinner being sprayed is completely clean.
4. Clean off any traces of paint, both inside and outside the reservoir.
5. Clean the gasket located under the reservoir cover.

### **NOZZLE AND NEEDLE**

1. Unscrew the ring.
2. Remove the butterfly nozzle.
3. Completely loosen the adjustment screw.
4. Remove the plain washer.
5. Completely loosen the adjustment screw.
6. Remove the spring.
7. Push out the needle; it is recommended not to use tools.

8. Put all these pieces in a container and clean them using a brush and a clean thinner.
9. The inside of the paint sprayer and the hose should also be cleaned.
10. Before replacing these parts, they must be thoroughly dried using the multistage centrifugal blower.

**WARNING!**

Reassemble the parts by reversing the sequence of operations described above. In particular, it is recommended to mount the internal nozzle **BEFORE** the needle.

**CLEAN-UP**

It is extremely important to thoroughly flush the sprayer immediately after use.

1. Use water to flush out water-based paint.
2. Use turps to flush out oil-based paint.
3. Spray oil/turps through the sprayer in exactly the same way you use paint.
4. You must run enough water/turps through the sprayer to ensure absolutely all paint has been removed from the system. Keep spraying until there's absolutely no paint coming out - the oil/turps should be completely clear.
5. Then complete clean-up by thoroughly removing all paint residue from the spray nozzle, the paint inlet and the rest of the machine.
6. Any trace of paint left in the unit or around the inlet or nozzle will prevent the sprayer from working properly.
7. Simply let our team know the unit is blocked and they will advise the easiest solution for un-blocking.

**TROUBLESHOOTING**

PROBLEM	CAUSE	SOLUTION
Paint drips on the object to be painted.	Paint product is too diluted.	Add an undiluted paint product.
	Spray needs adjustment.	Reduce the paint flow by tightening the screw.
	Movement is too slow.	Move the paint sprayer faster.
	Paint sprayer trigger remains pulled.	When reversing your movement, let go of the trigger.
	Distance of the paint sprayer.	Increase the distance between the paint sprayer and the object.
Paint application is weak or irregular	Paint is too diluted.	Add more thinner.
	Adjust the spray.	Increase the amount of paint by using the screw.
	Spraying movement is too fast.	Move the paint sprayer more slowly.
	Paint sprayer is clogged.	Clean the paint sprayer. Clean the internal nozzle with a non-metallic object.
	Paint sprayer is too far from the object.	Decrease the distance between the paint sprayer and the object.



PROBLEM	CAUSE	SOLUTION
Paint isn't coming out from the paint sprayer.	Paint is not thinned enough.	Add more thinner.
	Paint is too thick; viscosity is too high.	Check the viscosity of the paint product.
	Paint sprayer is clogged.	Clean the paint sprayer. Clean the internal nozzle with a non-metallic object.
	Hose has burst or is broken.	Replace the hose.
	Air filter is clogged.	Replace the filter.
	Paint is grainy.	Filter the paint, if necessary, using a filter or a screen.
My paint sprayer will not spray. My paint sprayer sprays unevenly. Paint will not come out of my paint sprayer when I try to use it. The paint comes out unevenly. The paint is not a fine spray when it comes out. The paint is blotchy or messy when it sprays out. The paint sprayer is blocked.	Reservoir is poorly closed.	Clean the gasket and close the reservoir.
	Inadequate thinning or blockage.	<b>Inadequate Thinning:</b> <ul style="list-style-type: none"> <li>Paint must be thinned by approx. 15% when using a paint sprayer.</li> <li>Use water to thin water-based paint.</li> <li>Use turps to thin oil-based paint.</li> <li>For 1 litre of paint, add 150ml of water/turps.</li> <li>For 5 litres of paint, add 750ml of water/turps.</li> <li>Be sure to stir the paint well after the water/turps has been added.</li> <li>If the spray is still not fine enough or the flow is inadequate, try thinning the paint a little more.</li> <li>Do not thin bulk amounts of paint until you have determined the ideal amount and tested it through the sprayer.</li> </ul> <b>Blockage:</b> <ul style="list-style-type: none"> <li>As outlined in the product manual it is extremely important to thoroughly flush the sprayer immediately after use.</li> <li>Use water to flush out water-based paint.</li> <li>Use turps to flush out oil-based paint.</li> <li>Spray oil/turps through the sprayer in exactly the same way you use paint.</li> <li>You must run enough water/turps through the sprayer to ensure absolutely all paint has been removed from the system. Keep spraying until there's absolutely no paint coming out - the oil/turps should be completely clear.</li> </ul>

PROBLEM	CAUSE	SOLUTION
		<ul style="list-style-type: none"><li>Then complete clean-up by thoroughly removing all paint residue from the spray nozzle, the paint inlet and the rest of the machine.</li><li>Any trace of paint left in the unit or around the inlet or nozzle will prevent the sprayer from working properly.</li><li>Simply let our team know the unit is blocked and they will advise the easiest solution for un-blocking.</li></ul>

For safety reasons and to ensure correct operation, the reservoir is not hermetically sealed. Even after it is completely closed, a small flow of air may still be present.

## SPECIFICATIONS

POWER SUPPLY	230V / 50Hz
RATED POWER	600W
WORKING PRESSURE	0.15 – 0.35 bar
AIR INTAKE	1,650 l/min
PIPE LENGTH	190cm
SPRAY GUN TANK CAPACITY	~ 1 litre
WEIGHT	3.2kg



**Some experts believe that the incorrect or prolonged use of almost any product may cause serious injury or death. To help reduce your risk of serious injury or death, refer to the information below. For more information, see [www.datastreamserver.com/safety](http://www.datastreamserver.com/safety)**

- Consult all documentation, packaging and product labelling before use. Note that some products feature documentation available online. It is recommended to print and retain the documentation.
- Before each use, check the product for loose/broken/damaged/missing parts, wear or leaks (if applicable). Never use a product with loose/broken/damaged/missing parts, wear or leaks.
- Products must be inspected and serviced (if applicable) by a qualified technician every 6 months. This is based on average residential use by persons of average size and strength, and on a property of average metropolitan size. Use beyond these recommendations may require more frequent inspections/servicing.
- Ensure that all users of the product have completed a suitable industry recognised training course before being allowed access to the product.
- The product has been supplied by a general merchandise retailer that may not be familiar with your specific application or description of application. Be sure to attain third-party approval from a qualified specialist for your application before use, regardless of any assurances from the retailer or its representatives.
- This product is not intended for use where fail-safe operation is required. As with any product (for example, automobile, computer, toaster), there is the possibility of technical issues that may require the repair or replacement of parts, or the product itself. If the possibility of such failure and the associated time it may take to rectify could in any way inconvenience the user, business or employee, or financially affect the user, business or employee, then the product is not suitable for your requirements. This product is not intended for use where incorrect operation or a failure of any kind, including but not limited to, a condition requiring product return, replacement, parts replacement or service by a technician may cause financial loss, loss of employee time or an inconvenience requiring compensation.
- If this product has been purchased in error when considering the information presented here, contact the retailer directly for details of their returns policy, if required.

