

MANUAL

Polymount Plate Cleaner installation protocol





Dear Customer,

Thank you for purchasing a Polymount Plate Cleaner.

Plate cleaners from Polymount are professionally built to industrial standards and offer an excellent price / performance ratio. Our on-going innovation and development work ensures that we always use the latest technological and safety standards. We make every effort to provide you with products that you will enjoy using, will make your work easier and more cost effective.

To ensure your safety and to prevent damage to the machine, you must read this manual thoroughly before using the machine. Please keep this manual safe for future reference.

About this manual

This manual contains all the necessary instructions for the proper usage and maintenance of the machine and is supplied with every machine. The content is intended for the user. Closely following the instructions in this manual will ensure the safety of the user and provide for the efficient operation of the machine. The main topics are organised in separate chapters. The index quickly shows the way to each chapter.

Safety

It is very important to Polymount that the Polymount Plate Cleaner is used in a safe manner. All persons who will use the machine must read and understand all the usage and safety advice in this manual before operating the machine.

Safety starts with you. Most accidents happen because of carelessness or by not following the safety rules. Following these basic rules and using common sense will ensure that the machine is operated in a safe manner. If there is anything that you are unsure of please contact the Polymount Helpdesk for clarification or instructions.

Important

The machine should only be used when it is in good working condition. Any changes or alterations that have been made by non-qualified people may reduce the safety of this machine. Any changes or alterations that are made to the machine, other than by ourselves, will invalidate our guarantee. Failure to follow all the safety instructions in this manual would also remove the manufacturer from any liability for injury or damage.



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SPECIFICATIONS PPC S

Size

Height : 1260 mm

Width : 1030 mm

Length : 2400 mm

Table height : 980 mm

Weight : 310 kg

Sticky plate size : 600 x 900 mm

Technical specifications

Voltage : EU / 400 Volt
Frequency : EU / 50 Hz
Nominal intensity : EU / 16A
Nominal power : 5,3 kWh

Supply cable : 5 m / 3 ph / + N+PE / 5 wire 2,5 mm

Dryer / heater : 3 Fans / 2 heater 4,0 kWh

Temp : 0 - 60 °C

Air dryer : min 2,0 Bar – max 4,0 Bar

Tank capacity : 75 Litre

Optional exhaust : 230 Volt

Capacity (optional exhaust) : 320 m³ / hour

Connections

Flush system : 12 / 19 mm

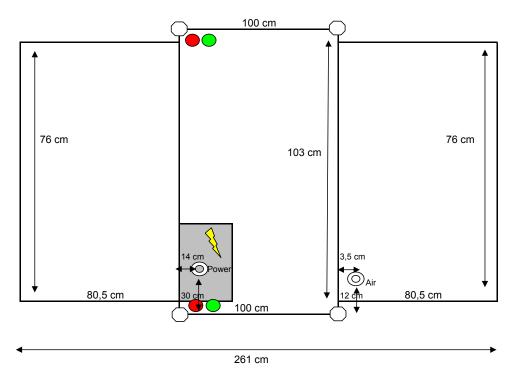
Electric supply / EU : 400 V / 3 h + N + PE / Length 5 m

Electric supply / US : requires a special transformer

Air supply : ¼ inch



FLOOR PLAN PPC S



Adjustable legs Ø 6 cm

Height of the Machine is: 123 cm

Power: Air: $5 \times 25 \text{ mm}^2 / 16 \text{A} / 400 \text{V}$ min. 4 Bar



SPECIFICATIONS PCC M2(T)

Size

Height : 1345 mm

Width : 1230 mm

Length : 3860 mm

Table height : 980 mm

Weight : 450 kg

Sticky plate size : 800 x 1200 mm

Technical specifications

Voltage : EU / 400 Volt US / 110 V Frequency : EU / 50 Hz US / 60 Hz Nominal intensity : EU / 16A US / 20A

Nominal power : 3,2 kWh

Supply cable $: 5 \text{ m} / 3 \text{ ph} / + \text{N+PE} / 5 \text{ wire } 2,5 \text{ mm}^2$

Dryer / heater : 1 Fan / 1 heater 2,5 kWh

Temp : 0 - 50 °C

Air dryer : min 4,0 Bar – max 5,0 Bar

Tank capacity : 125 Litre

Optional exhaust : 230 Volt

Capacity (optional exhaust) : 320 m³ / hour

Connections

Flush system : 12 / 19 mm

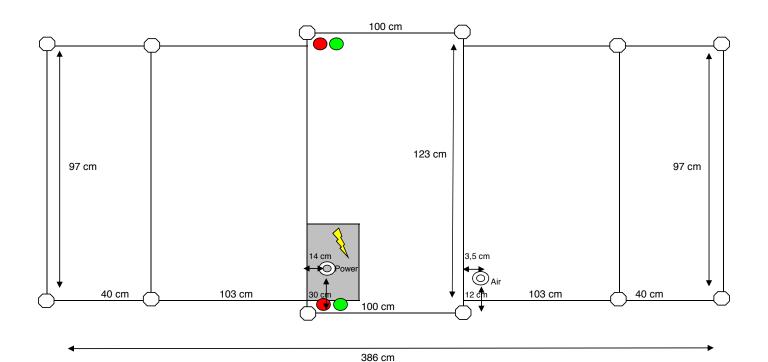
Electric supply / EU : 400 V / 3 ph + N + PE / Length 5 m

Electric supply / US : 110 V / 2 ph +PE

Air supply : ¼ inch



FLOOR PLAN PPC M2(T)



Adjustable legs Ø 6 cm

Height of the Machine is: 132 cm

Power: Air: $5 \times 2,5 \text{ mm}^2 / 16A / 400V$ min. 4 Bar



SPECIFICATIONS PCC L2(T)

Size

Height : 1345 mm

Width : 1430 mm

Length : 4700 mm

Table height : 980 mm

Weight : 510 kg

Sticky plate size : 1000 x 1600 mm

Technical specifications

Nominal power : 3,2 kWh

Supply cable $: 5 \text{ m} / 3 \text{ ph} / + \text{N+PE} / 5 \text{ wire } 2,5 \text{ mm}^2$

Dryer / heater : 1 Fan / 1 heater 2,5 kWh

Temp : 0 - 50 °C

Air dryer : min 4,0 Bar – max 5,0 Bar

Tank capacity : 125 Litre

Optional exhaust : 230 Volt

Capacity (optional exhaust) : 320 m³ / hour

Connections

Flush system : 12 / 19 mm

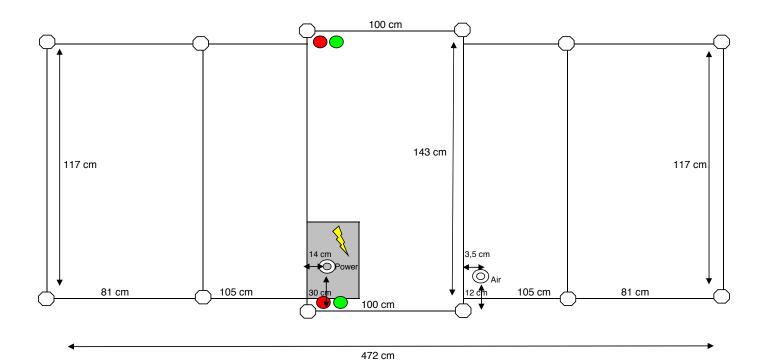
Electric supply / EU : 400 V / 3 ph + N + PE / Length 5 m

Electric supply / US : 110 V / 2 ph + PE

Air supply : ¼ inch



FLOOR PLAN PCC L2 (T)



Adjustable legs Ø 6 cm

Height of the Machine is: 132 cm

Power: Air: $5 \times 2,5 \text{ mm}^2 / 16A / 400V$ min. 4 Bar



SPECIFICATIONS PCC XL2(T)

Size

Height : 1345 mm

Width : 1630 mm

Length : 5500 mm

Table height : 980 mm

Weight : 600 kg

Sticky plate size : 1220 x 2000 mm

Technical specifications

Nominal power : 3,2 kWh

Supply cable $: 5 \text{ m} / 3 \text{ ph} / + \text{N+PE} / 5 \text{ wire } 2,5 \text{ mm}^2$

Dryer / heater : 1 Fan / 1 heater 2,5 kWh

Temp : 0 - 50 °C

Air dryer : min 4,0 Bar – max 5,0 Bar

Tank capacity : 125 Litre

Optional exhaust : 230 Volt

Capacity (optional exhaust) : 320 m³ / hour

Connections

Flush system : 12 / 19 mm

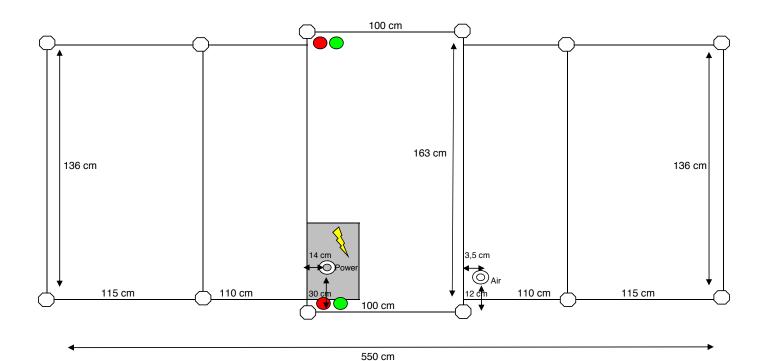
Electric supply / EU : 400 V / 3 ph + N + PE / Length 5 m

Electric supply / US : 110 V / 2 ph + PE

Air supply : ¼ inch



FLOOR PLAN PCC XL2(T)



Adjustable legs Ø 6 cm

Height of the Machine is: 132 cm

Power: Air: $5 \times 2.5 \text{ mm}^2 / 16A / 400V$ min. 4 Bar



SPECIFICATIONS PCC XXL2(T)

Size

Height : 1320 mm

Width : 2000 mm

Length : 6300 mm

Table height : 980 mm

Weight : 800 kg

Sticky plate size : 2400 x 1630 mm

Technical specifications

Nominal power : 3,2 kWh

Supply cable $: 5 \text{ m} / 3 \text{ ph} / + \text{N+PE} / 5 \text{ wire } 2,5 \text{ mm}^2$

Dryer / heater : 1 Fans / 1 heater 4,0 kWh

Temp : 0 - 50 °C

Air dryer : min 5,0 Bar – max 6,0 Bar

Tank capacity : 125 Litre

Optional exhaust : 230 Volt

Capacity (optional exhaust) : 320 m³ / hour

Connections

Flush system : 12 / 19 mm

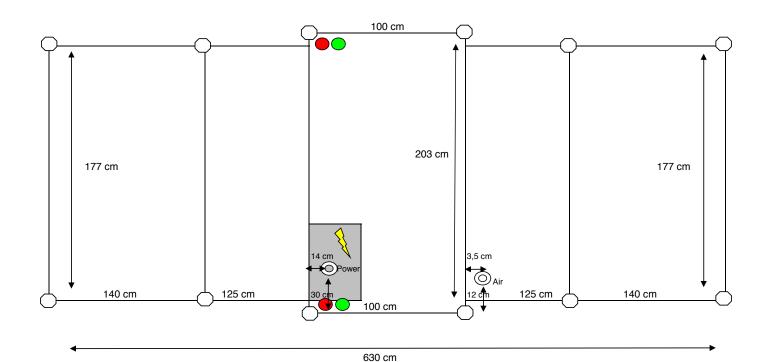
Electric supply / EU : 400 V / 3 ph + N + PE / Length 5 m

Electric supply / US : 110 V / 2 ph + PE

Air supply : ¼ inch



FLOOR PLAN PCC XXL2(T)



Adjustable legs Ø 6 cm

Height of the Machine is: 132,5 cm

Power: Air: $5 \times 2.5 \text{ mm}^2 / 16A / 400V$ min. 4 Bar



SPECIFICATIONS PCC XXL2 (T) CORRUGATED

Size

Height : 1320 mm

Width : 2000 mm

Length : 6300 mm

Table height : 980 mm

Weight : 800 kg

Sticky plate size : 2400 x 1630 mm

Technical specifications

Voltage : EU / 400 Volt US / 110 V Frequency : EU / 50 Hz US / 60 Hz Nominal intensity : EU / 16A US / 20A

Nominal power : 3,2 kWh

Supply cable $: 5 \text{ m} / 3 \text{ ph} / + \text{N+PE} / 5 \text{ wire } 2,5 \text{ mm}^2$

Dryer / heater : 1 Fans / 1 heater 4,0 kWh

Temp : 0 - 50 °C

Air dryer : min 5,0 Bar – max 6,0 Bar

Tank capacity : 125 Litre

Optional exhaust : 230 Volt

Capacity (optional exhaust) : 320 m³ / hour

Connections

Flush system : 12 / 19 mm

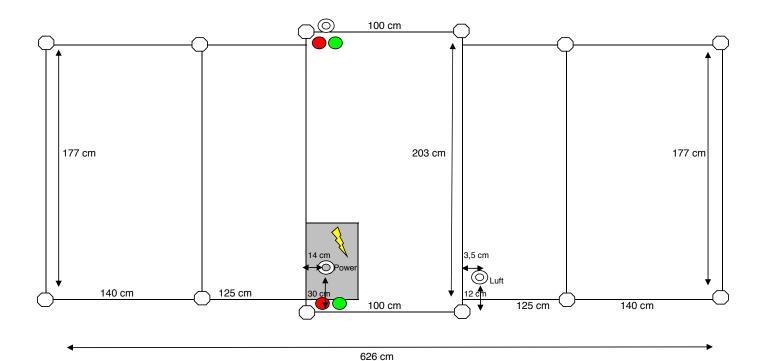
Electric supply / EU : 400 V / 3 ph + N + PE / Length 5 m

Electric supply / US : 110 V / 2 ph + PE

Air supply : ¼ inch



FLOOR PLAN PCC XXL2 (T) CORRUGATED



Adjustable legs Ø 6 cm

Height of the Machine is: 132,5 cm

Power: Air: $5 \times 2.5 \text{ mm}^2 / 16A / 400V$ min. 5 Bar



SYMBOLS:



Wear gloves Risk of injury!



Watch out High Voltage Risk of Injury!



Wear safety glasses Risk of injury!



Watch out Rotating parts Risk of injury!



Turn off main switch Risk of injury!



Primary earth symbol



SAFETY INSTRUCTIONS

Important:

Read the instructions for operating and maintaining the machine carefully before turning on the machine. The machine may only be used by persons who have read and understood the manual.

Caution!

Repairs, maintenance and adjustments should only be performed by qualified personnel and only after the machine is turned off (disconnect from Power supply).

- o Always check the correct installation of the machine before switching it on.
- o While working with the machine keep your hands away from any moving parts!
- o Keep the machine and working area clean and provide adequate lighting.
- o The design of the machine must not be modified and the machine must not be used for tasks other than those for which the manufacturer has developed it.
- o Never use the machine if your concentration is reduced by illness, fatigue, alcohol or medication.
- O Do not turn on the machine after installation or repair before replacing all tools used and removing any loose parts.
- o Make sure that you are aware of all the warnings for your safety and potential hazards. Ensure that these label's are all undamaged and clearly visible.
- o Keep children or people unfamiliar with the machine away from the workplace and the machine.
- o The machine should only be used and maintained by persons familiar with the risks associated with the machine.
- o Switch the machine off before performing maintenance or changing any settings! Pull the mains plug from the wall socket or disconnect the machine from the mains!
- o If you pull the power cable from the socket, never pull the cable, but pull the plug firmly. Protect the power cable from heat, oil and sharp edges.
- o Always check that the power switch is in the "OFF" position before connecting the power cable to a outlet, to ensure that the unit is not inadvertently switched on.



- o Wear close-fitting clothing, safety goggles, safety shoes and earmuffs. Tie long hair together. When working with the machine do not wear watches, bracelets, chains or rings, because they can cause injury if caught in rotating parts!
- o Repair any problems immediately as they could represent a safety hazard.
- o Never leave the machine unattended or leave the machine until all components completely come to a standstill. Then pull the power cord from the outlet, so that the machine can not be accidentally switched on.
- o Protect the machine from dampness. (Risk of electric shock!)
- o Do not use electrical equipment and machines near flammable liquids and gases. (Risk of explosion)
- o Before switching the machine on, check if any parts are damaged. Replace any damaged parts immediately, to avoid danger!
- o Use only original spare parts and accessories, to avoid any risks of accidents.

Even when all the safety guidelines are followed there still remains some residual risks. These are:

- o Risk of injury through touching moving parts
- o Possible fracturing of machine components
- o Risk of injury through flying materials or damaged printing plates
- o Insufficient ventilation around the machine
- o Risk of injury through touching live parts
- o Risk of hearing damage after prolonged periods of work without wearing hearing protection

Important:

We wish to point out that as with all machines, the Polymount Plate Cleaner should be used with caution and maximum attention to the potential dangers. It is your responsibility to use the machine as instructed in this manual.



OPERATION





Wear gloves and protection glasses.

- Fill the tank with a minimum of 75 Litres of Polywash
 Only use approved Polywash products.
- 2. Connect the plate cleaner to the electrical system
- 3. Turn main switch on
- 4. Set speed on standard between 30-40
- Low speed = longer / slow wash
- High speed = shorter / quick wash
- 5. Check that all emergency switches are de-activated
- 5b Check pump setting (page 21)
- 5c Check if Sponge rolls are mounted correctly (page 14-15)











OPERATION

- 6. Check that the cover is locked on both sides (otherwise the security switch will be activated)
- 7. Mount your dirty plates on the sticky plate
- 8. Press the START button to start the cleaning process.
- 9. When the sticky plate has gone through the machine, the censor will stop the machine automatically.
- 10. De-mount the clean plates











OPERATION

- 10. De-mount the clean plates
 Be gentle when de-mounting the plates.

 DO NOT USE SHARP TOOLS!!!
- 11. Mount another set of dirty plates
- 12. Press the START button.
 The machine will now wash in the opposite direction.











MAINTENANCE - CHANGING BRUSH



Always turn off the main power switch before changing the brush.

Mark all parts in step 1-6 to refit them correctly!

- 1. Release the 4 retaining screws (rings) on the brush
- 2. Remove the 6 screws on the frame
- 3. Remove the protection plate











MAINTENANCE - CHANGING BRUSH

- 4. Disconnect the pipe on the side of the machine
- 5. Remove the frame from the machine
- 6. Remove the protection plate
 Undo the drive rail from the pipes
- 7. Remove the 4 moving shafts from the machine











MOUNTING THE BRUSH

- 7. To mount the brush back on, do the reverse of step 6-1
- 8. Make sure you have the sticky plate and a printing plate under the brush before tightening the retaining screws.
- 9. The surface of the printing plate under the brush should be the 'floor'
- 10. Now lift the brush slightly and let it fall back under it's own weight
- 11. The brush is now set for the thickness of the plate that you use

Always do this setting with the thinnest plate you use in production!

When cleaning a thicker plate the brush will lift automatically.

12. Now tighten the 4 retaining screws







MAINTENANCE - SPONGE ROLL

Never run the machine without the sponge rollers mounted.

1. Loosen the retaining screw



Lift the sponge rollers and put into the tanks Polywash 1000

- 3. To re-mount the sponge rolls do step 1 and 2 in reverse order
- 4. When cleaning the sponge-rolls they should be left in the Polywash 1000 tank for at least 1 hour (or preferably overnight).
- 5. Before re-mounting the sponge-roll make sure that you squeeze all the Polywash 1000 from the sponge roll into the tank.









SETTING/ MAINTENANCE COMPRESSED AIR + PUMP

Compressed air

Set the compressed air min. 2.0 Bar / max. 4.0 Bar.

A = incoming air

B = airflow adjusting screw (pull down to set)

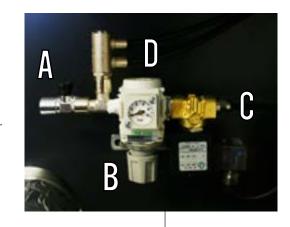
C = outgoing air

D = air gauge

To set the air pressure pull down the adjusting knob (B).

Turn the screw anti-clockwise to increase the pressure.

To lock the setting push the knob upwards.







SETTING/MAINTENANCE COMPRESSED AIR + PUMP

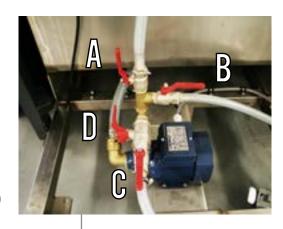
Pump

Be careful when handling the high capacity pump.

- A = Brush (open to the mark = approx 25%, check flow)
- B = Pre-flush (open to the mark = approx 25%, check flow)
- C = Circulation/ Drain tank (open to the mark = 25%)
- D = Main (open 100%)

Make sure that the electric cable from pump is connected.

To the empty tank close tap A + B + C. Place hose from tap C in tank or bucket. Open tap C and start the pump.









SETTING/MAINTENANCE COMPRESSED AIR + PUMP

Pump extra function

This is an extra function to run the pump without moving the sticky plate and washing brush.

 Push both START and STOP button at the same time (when the power is on) Hold for 5 seconds

Now only the pump will run.







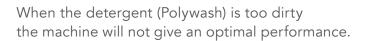
MAINTENANCE - TANK



When the red lamp is flashing the level of Polywash is too low.

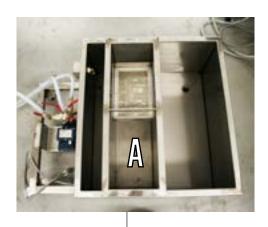


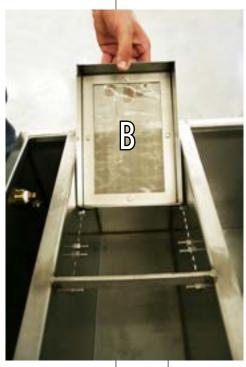
Never run the machine with less than 75 Litres of Polywash.



- 1. To clean the tank start by turning off the machine
- 2. Close taps
- 3. Place the hose from tap over a tank or bucket
- 4. Turn on, open tap and empty the tank
- 5. Wipe the tank clean
- 6. Empty the cascade tank and wipe it clean
- 7. Clean the filter







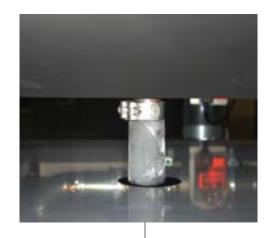


MAINTENANCE - TANK

- 8. Place the cascade tank back into the tank
- 9. Place the filter back into the cascade tank
- 10. Re-fill the tank with new Polywash

Always start by filling the cascade tank!

11. Hose and lid must be in the correct position before starting the plate cleaner again.







MAINTENANCE - TABLE SETTINGS

It is important that the tables are set correctly

- 1. The 2 tables should be set to 980 mm.
- 2. Simply adjust the level control on each leg.









SERVICE

Daily service

- 1. Refresh the sponge roll
- 2. Make sure that the sticky plate is clean and tacky
- 3. Check the filter to ensure it is clean and not blocked

Monthly service

- 1. Check Polywash in tank, replace if it is too dirty
- 2. Clean the cascade tank
- 3. Check all connections from the pump
- 4. Change to see if brush is damaged
- 5. Check the rack on the sticky plate and remove any ink residue from the rack.
- 6. Check the pins on the sticky plate, tighten them if they're lose.

Yearly service

1. This will be done by your supplier



TROUBLESHOOTING

Problem:	Check:	See page:
Sticky plate not moving	Power	
	Plate not in correct position	
	Check	
Detergent not pumping	Level in the tank	
	If tap is open	
	Fuse	
Printing plates are not clean	Detergent too dirty (change)	
	Brush height not set	
	Speed set too fast	
Plates are wet after cleaning	Refresh sponge roll	
	Adjust Air-pressure on air-knive	
Detergent on table	Table setting incorrect	
	Refresh sponge roll	
	Sponge roll is mounted correctly	
Red lamp flashing	Polywash level too low	

HELPDESK





Polymount Helpdesk Telephone: +31 33 299 6270



DESCRIPTION

- The transportation system pulls the sticky plate into the wash section.
- The sticky plate first passes through a flushing section where Polywash detergent is sprayed onto the printing plates.
- The detergent then begins to dissolve the ink on the printing plate.
- The next section comprises a very soft, fine haired brush which cleans the plate.
- Then a sponge roll starts to dry the plates and the in-line drying section finishes the process with hot air.
- The sticky plate will emerge from the machine with perfectly clean, undamaged and dry printing plates.
- The Polymount Plate Cleaner is economical, efficient and very environmentally friendly.