
STOP
POWER
TIMER

This operating manual is for the Pioneer HS-WC Cooling Station only.

The operating manual contains all information necessary for proper use of the unit. The contents correspond to the HS-WC Cooling Station at the point in time of product release. This manual and HS-WC Cooling Station unit is subject to changes in the pursuit of continuous improvement and product development.

No claims may be made from the contents of this manual (data, diagrams, drawings, descriptions, etc.) Subject to errors!

The operation manual is to familiarize yourself with the HS-WC Cooling Station and to use it properly and safely for its intended purpose.

Please let us know if you should find any errors or incorrect information on reading through this manual.

The operating manual contains instructions for operating HS-WC Cooling Station safely, properly, for avoiding dangers, reducing repair costs and standstill periods, and for increasing the reliability and service life of the unit.

Safety Instructions

Read the operating manual carefully before initial operation of the unit. Become well acquainted with the control and safety elements!

The unit may only be operated by trained, instructed staff!

The operating manual is an important part of the HS-WC Cooling Station and must be easily accessible, legible and understandable for all persons working with the unit.

The unit may only be used for its proper purpose and in correctly functioning state!

The HS-WC Cooling Station is specially designed for tool change with Pioneer shrink chucks (operation time, cooling time, etc.). When other shrink chucks are shrunk in or out, problems can occur causing damage to the chucks or to the induction unit itself.

Use only Pioneer shrink fit chucks! No guarantee can be assumed for any other chucks!

The manufacturer cannot guarantee safe operation of the unit after any unauthorized modifications or interventions in the unit. The risk of endangering life of the operator or third parties, and the risk of damage to the HS-WC Cooling Station and other items of property is sole responsibility of the user alone!

Choice of the installation site

HS-WC Cooling Station is designed as a bench-top unit and should be installed safely and free of vibrations at a dry workplace which is a free as possible from dust and dirt.

Installation the unit free of vibrations; protect from contamination and moisture!
Avoid direct sunlight for better visibility and operation of the display.

Do not move or transport the machine while water or coolant is in the tank.
Fully drain all fluids prior to moving the machine.

Electrical Safety Instructions

The unit contains live components with dangerous voltages. Please observe the following for your own safety:

Do Not Open the machine!
Any and all service must be performed by Pioneer trained service staff!

Do not allow metal chips and liquids to enter into the unit!

Keep the unit clean and clean it regularly!

Only suitable cutting tools and shrink chucks should be used in this machine!

Do not introduce any items through the ventilation grids!

Hot Parts Safety

The surface of the Shrink chuck can heat up to approx. 400°C (750°F) with a maximum of 566°C (1050°F). The HS-WC Cooling Station adaptors can also get hot, but the heating coil does not heat up during proper operation.

Caution! Risk of injury from burning on the hot parts!

For your own safety, comply with the following safety measures when working with the unit:

When shrinking tools in and out, always wear heat resistant gloves that match operational temperature as protection from burning and cut injuries!

Wear approved safety goggles when shrinking!

Ensure that hot parts cannot be touched by mistake!

Never leave hot shrink chucks standing exposed, place them in the HS-WC Cooling Station immediately and cover with HS-WC Cooling Station adapter and cycle the cooling station!

Do not place hot tools on flammable surfaces, but only on heat-resistant surfaces!

SAFETY SIGNS

Definition of 1 or more Safety Signs that maybe located on the HS-6K Machine.

CE MARK

READ MANUAL FIRST

WEAR GLOVES

EMERGENCY STOP

GROUND WIRE

KEEP HANDS AWAY

HOT DO NOT TOUCH

KEEP HANDS AWAY

220V, SINGLE PHASE

ELECTRIC SHOCK

DIRECTION SIGNAL

FAN EXHAUST WARNING

DANGER SHOCK

Emergency Stop & Safety Device

During machining, if any malfunction occurs, press this switch to stop all motion. When restarting machine remember to turn E STOP switch to the right to release it.

Specifications & Installation

Generator System Specifications and Requirements

MODEL	M.U.	GCS-1
POWER SOURCE	-	220V +/- 20V, 50/60Hz, Single Phase
RATED CURRENT	A	20
RATED POWER	kW	57W, 220V 1 Phase, 20A
WEIGHT (Metal Case)	LBS	60 lbs
DIMENSIONS (LxWxH)	Inch	20” x 25” x 10”

Power supply requirement

This is important connect this machine to the correct voltage in the factory power source. Use only an independent power source.

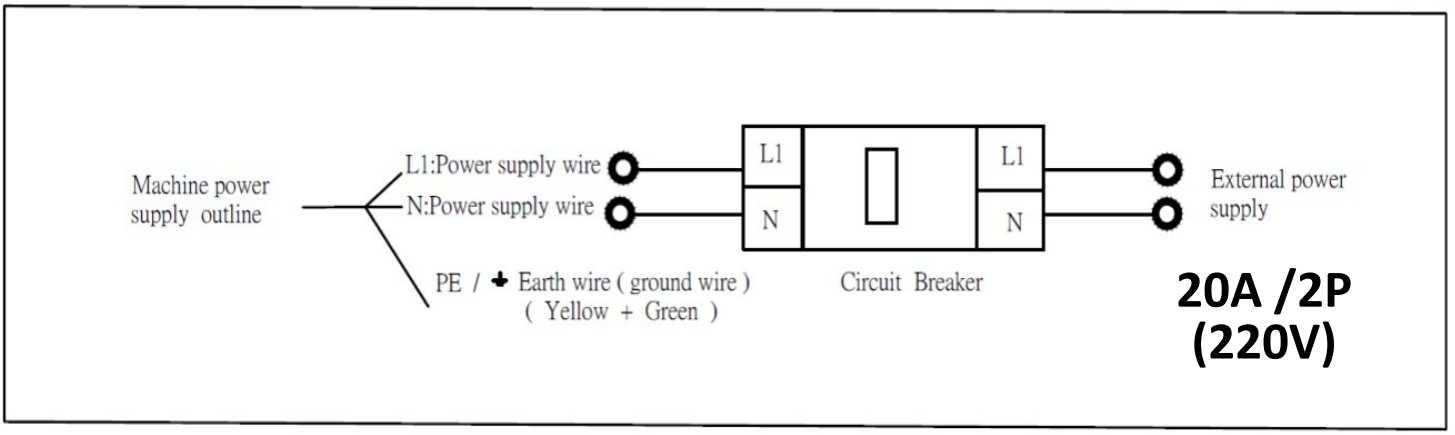
1. Before connecting the power wires makes sure the voltage between the machine and your factory power source is the same.
2. Take out the electrical cover at the electrical control panel outside.
3. Connect the power wires to the L1, N and PE.
4. The machine must be properly grounded to prevent possible injury from electrical shock.
5. Connect the power wires from machine back to the electrical control panel according connector type.
6. Certified electrical personnel should perform all electrical connections.

Temporary Storage

If the machine is not installed and used immediately upon delivery, it should be stored in a dry place that is adequately protected against atmospheric condition. We recommend that the machine is kept in its original packaging cases and protective package until the time of installation.

The reason is to retain integrity of hygienic standard of the machine.

Grounding should be based on the local regulations, otherwise electric shock may occur.



Note:

For the unsteady voltage area, please install a power stabilizer to avoid the damage on circuit system inside the machine. Any damage on circuit system by unstable voltage is not warranted.

Assembly

1. Attach one end of the Coolant Feed Blue Hose to the 90 degree connector on the back of the machine. The other end to the top of the cooling housing.
2. Insert drain plug into Drain Plug Hole (straight connector)
3. Fill with approx. 2.5 Gallons of water soluble coolant, until the filter is covered and the site glass on the left of the machine shows full. **DO NOT OVER FILL!**
4. Plug into proper power suppler per page 8.

Operation

1. Using the HS-Base, using proper safety equipment move the tool from the shrink machine to one of the 2 stations on the HS-WC.
2. Move the water cooling housing over the tool and base until the housing is sitting completely into the HS-WC. If the tool prevents the housing from seating use a HS Extension.
3. Make sure:
   Emergency Stop is not engaged.
   Power is turned on.
   Timer is set to a min. of 30 seconds.
4. Press the green “ON” button. The machine will cycle for the time indicated on the timer.
5. Use a temperature gage to make sure the tool is cooled to room temperature.
6. Remove the tool from the machine.
7. Wipe down the tool to remove any remaining coolant or water.

Maintenance

NOTE: Turn off the machine and lock out power prior to any maintenance.

1. The machine must be cleaned and maintained regularly, do not use corrosive cleaning fluids.
2. Replace the water or coolant every 3-6 months or as needed.
3. Replace the filter annually.

Per your company safety standard, operation should be reviewed, operators retained annually.

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