PipeCaster™ Pro

User Manual

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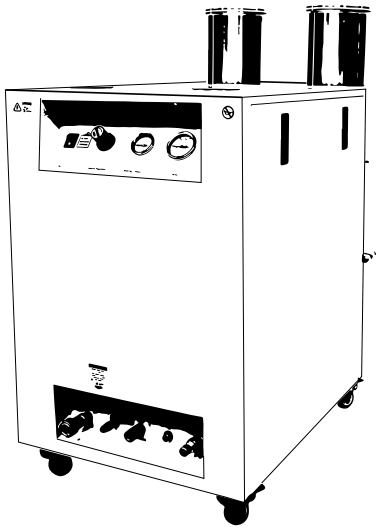
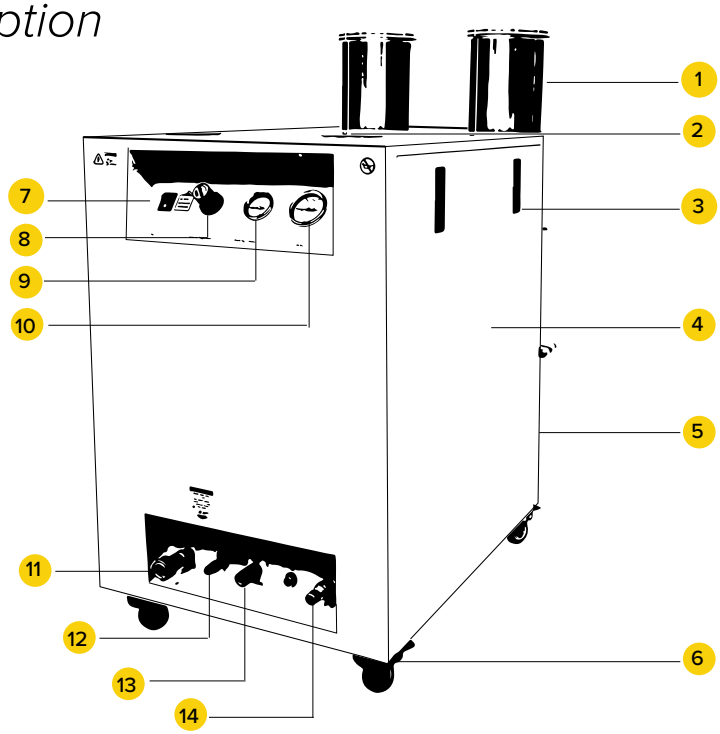


1 GENERAL DESCRIPTION

PipeCaster Pro Description

1. Removable stainless steel tanks with lids
2. Control display
3. Door look
4. Removable maintenance door
5. Quick connect tank holder
6. Caster wheels
7. Power ON /OFF switch
8. Pressure regulator
9. Working pressure gauge
10. Tank pressure gauge
11. Quick connect material A (Red)
12. Release valve for condense water
13. Pneumatic air quick connect
14. Quick connect material B (Blue)



INTENDED USE
This machine is intended for the following uses;
1. Coating drains from DN40-150 / 1.5”-6”.
2. Cleaning sewers and drains with degreaser.
Always follow the manufacturer’s instructions when installing and using the machine with accessories.

VOLTAGE
Ensure that the supply voltage is correct. The voltage of the power source must match the value given on the nameplate of the machine. Available in 230v and 110v.

POWER SUPPLY
The machine should be connected only to a power supply of the same voltage as indicated on the nameplate, and can only be operated on single-phase AC supply.

2 SAFETY INFORMATION

⚠ WARNING!

This manual contains important instructions for operating this product. For your safety, and safety of others, be sure to read this manual throughly before operating the product.
Failure to properly follow all the instructions and precautions can cause you and others to be seriously hurt or killed.

Safety symbols

Safety symbols are used throughout this manual to draw attention to potential hazards.

Danger: risk of serious injury, follow instructions

Danger: risk of serious injury from rotating parts

Personal Protective Equipment (PPE)

Always use Personal Protective Equipment when using the PipeCaster Pro Coating System, including suitable overalls / protective clothing & footwear and the following:

Always wear suitable eye protection when using the Coating System to prevent coating resin or other dust from irritating your eyes.

Always wear suitable ear protection when using the Coating System to prevent any hearing loss.

Always wear suitable resin-resistant gloves when using the Coating System to prevent any skin irritations. Any open injuries or skin irritations should be covered at all times to avoid contact with resin or dust.

Always wear a suitable ventilation mask when using the Coating System to prevent any resin dust or vapours being inhaled or consumed, which can cause occupational asthma or epoxy dermatitis as well as eye irritation.

Always Remember

Dust produced when working can be dangerous to your health, inflammable or explosive. Make sure the drain pipe has been opened and ventilated to stop any gases forming in the lateral drain where the work takes place.

Before assembly, use, replacement of parts or maintenance, unplug the PipeCasterPro machine from its power socket. Failure to comply may lead to serious injury including electric shock or injury from rotating parts.

3 SAFETY INFORMATION AIR COMPRESSOR

Safety messages & Signal Words:

Safety symbols are used throughout this manual to draw attention to potential hazards.

⚠ **DANGER**	Indicates an immediate hazardous situation which, if not avoided, will result in death or serious injury to the operator or to bystanders.
⚠ **WARNING**	Indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury to the operator or bystanders.
⚠ **CAUTION**	Indicates a potentially hazardous situation which, if not avoided, may result in moderate or minor injury to the operator or to bystanders.
NOTICE	Indicated a situation which, if not avoided, may result in damage to product components or other property.

⚠ **DANGER**

RISK OF CUTTING

Moving parts can cause severe trauma.
Keep hands and feet away from rotating parts, tie up long hair, remove jewelry, and DO NOT wear loose clothing

⚠ **DANGER**

SHOCK

- There is a danger of electric shock.
- Use only undamaged electrical cords.
- DO NOT touch bare wires or recaptacles.
- DO NOT touch air compressor or cords If hands or feet are wet.
- Ensure that all cords are free of damage before connecting to the power supply.
- Ensure that you have a sufficient electrical supply for supporting the requirement of the motor.
- Improper installation of the grounding plug is able to result in a risk of electric shock. When repair or replacement of the cord or plug is required, do not connect the grounding wire to either flat terminal. The wire with insulation having a outer surface that is green with or without yellow stripes is the grounding wire.
- This product must be grounded. In the event of an electrical short circuit, grounding reduces the risk of electrical shock by providing an escape wire for the electirc current.
- This product is equipped with an cord having a grounding wire with an appropriate grounding plug. The plug must be plugged into an outlet that is properly installed and grounded in accordance with the local codes and ordinances.
- This product is for use on a nominal 120-V circuit and has a grounding plug similar to the plug illustrated in sketch A. Only connect the product to an outlet having the same configuration as the plug.
- Do not use an adapter with this product.

3 SAFETY INFORMATION AIR COMPRESSOR

⚠ WARNING

RISK TO BREATHING

- Dust or dust-like particulates caused by
- power-sanding, sawing, grinding, drilling or any other construction-like activities can contain contaminants that are harmful to breathe.
- Always use your air compressor in a well-ventilated and clean area.
- Never breathe the air that comes directly out of the air compressor or air hose. This air is not suitable for breathing.
- Always wear approved safety equipment. When performing dust-creating activities, securely wear properly-fit face masks or respirators.
- If you feel ill from breathing while operating your air compressor, stop and seek medical attention immediately.

⚠ WARNING

HOT SURFACE
FIRE

- Air compressor surfaces become hot during operation.
- DO NOT touch hot surfaces, because they can cause severe burns.
- Do not touch the air compressor's cylinder head. During operation, the cooling fins of the cylinder head and delivery pipe become hot.
- Allow the air compressor to cool before touching it.
- DO NOT place a storage cover on the unit during operation. Only place a cover on the air compressor after it has thoroughly cooled down.

⚠ WARNING

FLYING OBJECTS

- Flying objects can cause injury to the eyes, head and other parts of the body.
- Air-powered equipment and power tools are capable of propelling items (metal chips, fasteners and particulates) at high speed into the air and could result in injury.
- Always wear approved head and eye protection.
- Never point the air stream at any part of your body, or at another person or animal.
- When operating the air compressor, make sure all other people and animals maintain a safe distance.
- Do not move the air compressor when the air tank is under pressure.
- Never use the air hoses to pull or move the air compressor.
- Keep the air compressor on a flat surface.

⚠ WARNING

EXPLOSION

- Exercise caution when using pressurized air.
- To prevent injury and for your general safety, only use high-pressure hoses, fittings and couplings designed for use with air compressors.
- Inspect all hoses, fittings and couplings for leaks and wear. When leaks and wear are detected, stop use and replace those items immediately. Do not repair.
- Never leave pressurized air in the air tank when performing maintenance.
- Never leave the air compressor unattended with the power supply in use and the air hose connected.

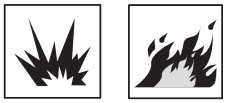
3 SAFETY INFORMATION AIR COMPRESSOR

⚠ WARNING

EXPLOSION

- Improper care could lead to the air tank bursting or exploding.
- Drain air tank daily or after each use to prevent moisture buildup in the air tank.
- Rust can weaken the air tank and cause leaks or bursting. If rust is detected, replace tank immediately. Do not try to repair the air tank by welding, drilling or modifying it in any other way. These modifications can weaken the air tank and cause a hazardous condition.
- If air tank develops a leak, replace the air tank immediately. Never repair, weld or make modifications to the air tank or its attachments.
- Never make adjustments to the factory-set pressures.
- Never exceed manufacturer's maximum-allowable pressure rating attachments.
- Because of extreme heat, do not use plastic pipe or lead tin solder joints for a discharge line.

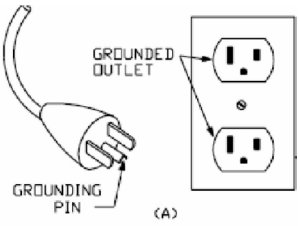
⚠ WARNING



EXPLOSION
FIRE

- Use caution to minimize risk of fire or explosion.
- It is normal for the air compressor motor and pressure switch to produce sparks while operating. If sparks come in contact with vapors from gasoline or solvents, they may ignite and cause a fire or explosion.
- Abrasive tools such as grinders, drills and other tools are capable of making sparks that can ignite flammable materials.
- Always operate the air compressor a safe distance away from flammable items. Use in well-ventilated areas.
- Never exceed the maximum rated pressure.

⚠ CAUTION



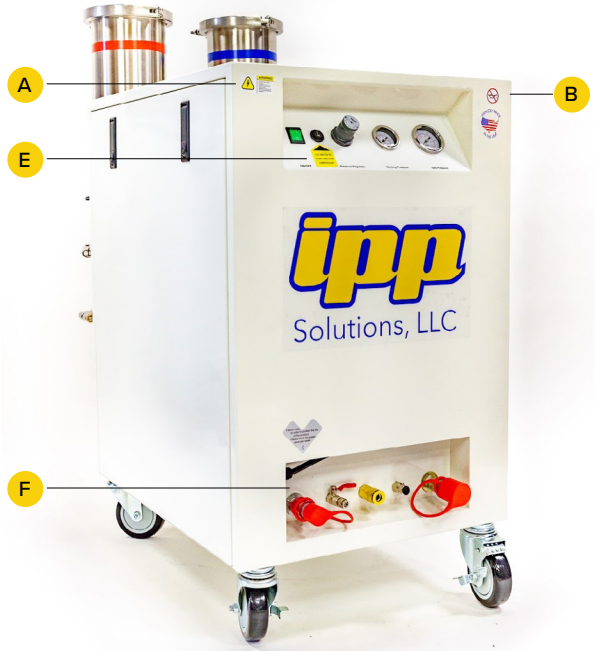
- Use caution when using extension cords.
- Use an extenson cord which is no more than 50' land and at leas 12 gauge.
- Using an excessively long or thin-wired extension cord will cause severe damage to the motor.
- Use only a 3-wire extension cord that has a 3-blade grounding plug.
- As undersized cord results in a drop in the line voltage and loss of power and overheating.
- When in doubt, use a heavier gauge. The smaller the gauge the more current the cord can carry.

⚠ CAUTION

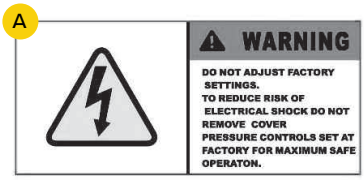
THIS EQUIPMENT INCORPORTATES PARTS, SUCH AS SNAP SWITCHES, RECEPTACLES AND THE LIKE THAT TEND TO PRODUCE ARCS OR SPARKS, THERE, WHEN LOCATED IN A GARAGE, IT SHOULD BE IN A ROOM OR ENCLOSURE PROVIDED FPR THE PURPOSE, OR SHOULD BE 18 IN (45.7 CM) OR MORE ABOVE THE FLOOR.

3 SAFETY INFORMATION AIR COMPRESSOR

Important labels locations



A



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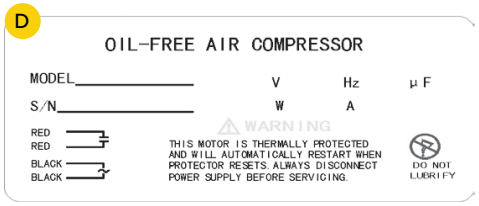
D



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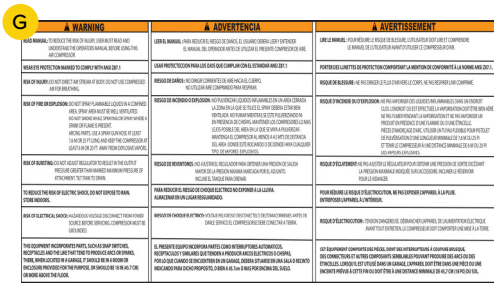


3 SAFETY INFORMATION AIR COMPRESSOR

Electrical power requirements

⚠ DANGER

SHOCK

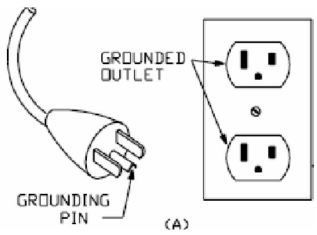
- There is a danger of electric shock.
- Use only undamaged electrical cords.
- DO NOT touch bare wires or recaptacles.
- DO NOT touch air compressor or cords If hands or feet are wet.
- Ensure that all cords are free of damage before connecting to the power supply.
- Ensure that you have a sufficient electrical supply for supporting the requirement of the motor.
- Improper installation of the grounding plug is able to result in a risk of electric shock. When repair or replacement of the cord or plug is required, do not connect the grounding wire to either flat terminal. The wire with insulation having a outer surface that is green with or without yellow stripes is the grounding wire.
- This product must be grounded. In the event of an electrical short circuit, grounding reduces the risk of electrical shock by providing an escape wire for the electirc current.
- This product is equipped with an cord having a grounding wire with an appropriate grounding plug. The plug must be plugged into an outlet that is properly installed and grounded in accordance with the local codes and ordinances.
- This product is for use on a nominal 120-V circuit and has a grounding plug similar to the plug illustrated in sketch A. Only connect the product to an outlet having the same configuration as the plug.
- Do not use an adapter with this product.

Before using the air compressor, refer to the serial label for voltage and amperage requirements. Make sure you have a sufficient electrical supply for supporting the motor's requirements.

Use a dedicated 15 amp circuit.

Low voltage and/or an overload circuit can cause the motor's overload protection system circuit breaker to trip.

⚠ CAUTION



- Use caution when using extension cords.
- Use an extenson cord which is no more than 50' land and at leas 12 gauge.
- Using an excessively long or thin-wired extension cord will cause severe damage to the motor.
- Use only a 3-wire extension cord that has a 3-blade grounding plug.
- As undersized cord results in a drop in the line voltage and loss of power and overheating.
- When in doubt, use a heavier gauge. The smaller the gauge the more current the cord can carry.

4 OPERATING THE AIR COMPRESSOR

Compressor

You can turn on or off the air intake to the compressor inside the machine by locating this switch in the display as “OUT”

At end of each job make sure to open the valve to release the air from the tank inside. Otherwise, it will collect water. (ball valve)

4 OPERATING THE AIR COMPRESSOR

⚠ WARNING

This manual contains important instructions for operating this product. For your safety, and safety of others, be sure to read this manual throughly before operating the product. Failure to properly follow all the instructions and precautions can cause you and others to be seriously hurt or killed.

Introduction

This air compressor features a compact structure, stable performance, a high airflow rate, easy operation and maintenance. because the air compressor produces no oil in the airflow, it can be used as an independent air supply machine for situations in which oil in the airflow is an issue. The motor directly drives the pistons and is able to function without lubrication for a long period of time

Assembly

1. Connect your air supply hose to a 1/4” male universal or industrial quick connect coupler. Connect the male quick connect coupler to the female quick connect coupler located on the air compressor
2. Make sure the drainage valve is off and that the pressure switch is in the OFF position.
3. Ensure that the power supply you are going to use is operating normally. use a dedicated 15 amp outlet,
4. Insert the power supply cord into the power supply socket

Test Run

before using the air compressor for the first time, complete a test run as follows:

1. Turn the power switch to the OFF position. Plug the power supply cord into a power supply socket. Start the air compressor by turning the power switch to the ON position. The pressure gauge reading will slowly rise as pressure increases inside the air tank. When the gauge reading reaches 130 PSI, the pressure switch will automatically turn the power off. This indicates the compressor is working normally.

2. Turn the power switch to the Off position, unplug the power supply cord and release the air in the air tank by opening the drain valve. At this point proceed to the next step (daily operations).

   NOTE:: If the Air Compressor is not working properly, the pressure gauge will indicate that there is a decrease in pressure in the air tank. If there is an air leak from the compressor the pressure in the air tank decreases, the pressure switch resets and the motor automatically turns back on.

   If you detect an air leakage, turn the power switch to the Off position, release the air from the tank by pulling on the safety valve. unplug the power supply cord and contactCustomer Support for Assistance.

⚠ WARNING

HOT SURFACE
FIRE

- Air compressor surfaces become hot during operation.
- DO NOT touch hot surfaces, because they can cause severe burns.
- Do not touch the air compressor’s cylinder head. During operation, the cooling fins of the cylinder head and delivery pipe become hot.
- Allow the air compressor to cool before touching it.
- DO NOT place a storage cover on the unit during operation. Only place a cover on the air compressor after it has thoroughly cooled down.

4 OPERATING THE AIR COMPRESSOR

⚠ WARNING

FLYING OBJECTS

- Flying objects can cause injury to the eyes, head and other parts of the body.
- Air-powered equipment and power tools are capable of propelling items (metal chips, fasteners and particulates) at high speed into the air and could result in injury.
- Always wear approved head and eye protection.
- Never point the air stream at any part of your body, or at another person or animal.
- When operating the air compressor, make sure all other people and animals maintain a safe distance.
- Do not move the air compressor when the air tank is under pressure.
- Never use the air hoses to pull or move the air compressor.
- Keep the air compressor on a flat surface.

Daily Operation

Starting the compressor:

1. Turn the power switch to the OFF position.
2. Attach the air hose to the 1/4” Industrial Quick Connector
3. Close the drain valve.
4. Have air filters attached
5. Plug the power supply cord into a power supply socket.
6. Turn the power switch to the ON position.
7. Let the motor run and tank fill until motor turns off.
8. To regulate the air flow.
   While the air compressor is running, turn “On” your tool and turn the regulator knob to the right increasing the pressure. Turn the pressure up until the desired pressure is reached.
9. Operate air tool normally.
   Do Not exceed 1 hour of non-stop (continuous running).

Shutting down the compressor:

1. Turn the power switch to the OFF position.
2. Unplug the power supply cord.
3. Reduce the pressure in the air tank through the air hose.

5 AIR COMPRESSOR MAINTENANCE

Draining the Air Tank

The frequency at which you should drain the air tank depends on the environmental conditions and the amount of operating time logged. The average draining frequency is every 1 to 2 days.

1. Place the air compressor above a container capable of holding water.
2. With compressed air in the air tank, slowly turn the drain valve knob to the forward (open) or straight position. The water in the air tank will drain out.
3. After all of the accumulated water has drained out, turn the drain valve knob to the closed or left position in order to avoidleakage.
4. Draining the air tank protects parts from rust and corrosion.

Cleaning or Changing the Air Filter

The air filter is designed to reduce noise and help prevent particulates in the air from entering and damaging the air compressor. After being used for a period of time, the air filter will become clogged. This will reduce the air intake capabilities of the air compressor, reducing performance. Therefore, the air filter must be cleaned or replaced regularly..

1. Open the lid on the air filter, then remove the air filter element.
2. To clean the element blow off or brush off the dirt and dust.
3. If clogged, replace with a new air filter.Draining the air tank protects parts from rust and corrosion.

Testing for Leaks

Make sure all connections are tight. do not overtighten.

A small leak in any hose or pipe connection will reduce the air compressor's performance.

To test for small leaks, spray a small amount of soapy water on the area suspected of leaking. If the soap bubbles, replace the broken part.

Cleaning

Clean items with a soft brush, or wipe with a moistened cloth using a biodegradable solvent.

Do not use flammable liquids such as gasoline or alcohol. Always keep parts clean from dirt and dust for better performance.

Pressure Switch

The pressure switch is factory pre-set to shut off at between 125 - 130 PSI and to re-start at between 95-100 PSI

Storage

Before storing for a prolonged period of time:

1. Turn off the power supply.
2. Diisconnect the power cord from the power supply and wrap the power cord around the air compressor handle to reduce the risk of damage.
3. Pull the relief valve and release all the pressure from the air tank.
4. Clean the air compressor to remove all dirt and dust.
5. Cover the air compressor with a cover to protect the unit from dust and moisture.
6. Do not stack or store any items on top of or around the air compressor. damage could occur.

⚠ CAUTION

TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT EXPOSE TO RAIN.
STORE INDOORS.

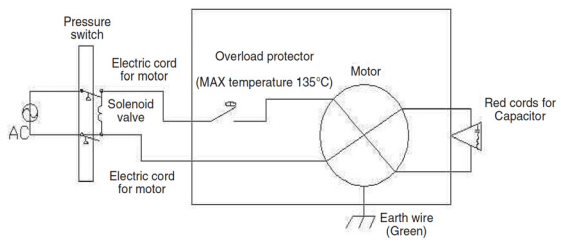
6 AIR COMPRESSOR TROUBLESHOOTING

Troubleshooting

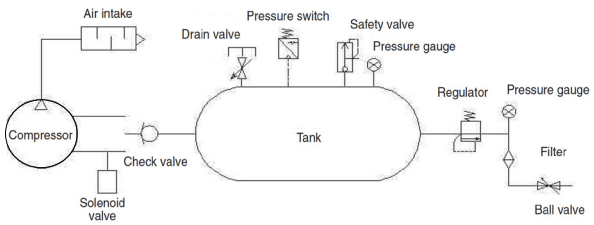
PROBLEM	POSSIBLE CAUSE	POSSIBLE SOLUTIONS
Pressure drop in the tank.	Air leaks at connections.	Let the compressor build pressure in the tank, to the maximum pressure if possible. brush soapy water on air connections and look carefully for air bubbles. Tighten leaky connections. If the problem persists, contact the seller for further advice.
The unloader valve leaks when the compressor is idle.	unloader valve seal is defective.	Let the air in the air tank flow out until all the pressure is released. Then remove the unloader valve plug and clean the valve seal. If necessary,replace the seal and then reinstall all components.
The compressor stopped and does not start.	The thermal protector turned on because the motor is overheating.	Check that the main voltage corresponds to the air compressor specifications. An extension cord that is too thin or too long can cause a voltage drop and cause the motor to overheat. Excessive use (over 1 hour continuous use) can cause the motor to overheat Allow the motor to cool down.
	Motor windings are burned out.	Contact Customer Support.
The motor does not start and makes a humming noise.	Capacitor is burned out.	Contact Customer Support
The motor does not start or starts slowly.	Low voltage supply to the motor.	Check that the main voltage corresponds to the air compressor specifications. An extension cord that is too thin or too long can cause a voltage drop.. use heavy duty extension cords. Ensure that the air compressor is plugged into a fully functional power outlet
The compressor is noisy with metallic clangs	Compressor head gasket or reed valve is damaged	Stop the compressor and contact the dealer.
The compressor does not reach the maximum pressure.	Compressor head gasket or reed valve is faulty.	Stop the compressor and contact the dealer.
The compressor doesn't seem to provide as much air as it did when new and/or the compressor cuts off within a much shorter time period	The pressure switch needs adjusting.	Stop the compressor and contact the dealer.
	The tank is full of water due to condensation.	Open the drain valve and release the water from the tank.
The motor pump unit does not stop when the tank pressure reaches its maximum working pressure (75 PSI).	Pressure switch defective or needs adjusting.	Stop the compressor immediately and contact Customer Support.

Specifications

Electrical Circuit



Air Passage Drawing

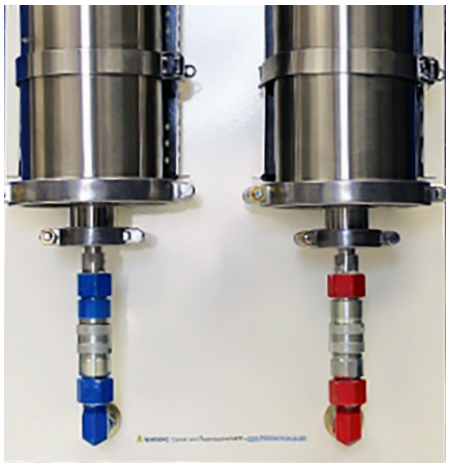


7 TANKS

Install Tanks

Install your tanks to the backside of the PipeCasterPro. Your **BLUE** marked tank is your resin reservoir (B=Resin color gray), and the **RED** marked tank is your hardener reservoir (A=Hardener color clear)

These tanks are snapped to position (Hydraulic Quick Connect). They can only be connected to the correct Quick Connect (female to male and male to female



Tanks Removal

Removing the tanks are easy to manage by down pull or push up the lock on the female side depends on the position of the female or male quick connect. After disconnecting the tanks, the quick connect will automatically close themselves and no material can leak out.
(Note, always keep these Quick Connect clean)

8 HOSE REELS

Hose reels

Each machine comes with two hose reels.

Air hose reel

The air hose reel has a 15’ braided hose that connects the reel with the machine. The air hose reel has a 50’ braided hose airline what can be extended.

Material hose reel

The Material hose reel has two 15’ hydraulic hoses from the reel to the machine. The material reel has a 50’ or 75’ of stainless-steel braided hose. (**RED** colored quick connect or hose is your hardener side, and the **BLUE** quick connect or hose is your resin side.)

9 MATERIAL HANDLING

Material Handling

If the system has the Ultra Flush cleaning solution contained, you must make sure at this step you take the flush out of your tanks and hoses.
The Ultra Flush Cleaner should be having a red color.

Always mix the red UF dye with your Ultra Flush Cleaner before using (1 pint cleaner = 1 tea spoon dye) .

For the resin or hardener, you do not have to use dye. Flush out the red cleaning solution until no material is coming out at the end of the material hose and built an air gap.

Place a small amount of hardener or resin and flush that out of your tanks.

After a few minutes pour in your actual hardener and resin in the proper storage tanks. You will hear a spitting air gap at the end of the material hose right before the red cleaning solution will be no longer in the system.
Place the hardener and resin in a cup and stir. You should see a clear consistency with the product, and it will be very warm. If you see a grainy texture it means that there is still flush in the line.
Allow some hardener and resin to come out into a trash bucket for about 20 seconds.
Before starting the machine, make sure you put your resin and hardener in the appropriate storage tanks.

VERY IMPORTANT!:

YOU ALWAYS HAVE TO MIX THE RESIN (BLUE CONTAINER) BEFORE EACH USE FOR AT LEAST 4-5 MINUTES.

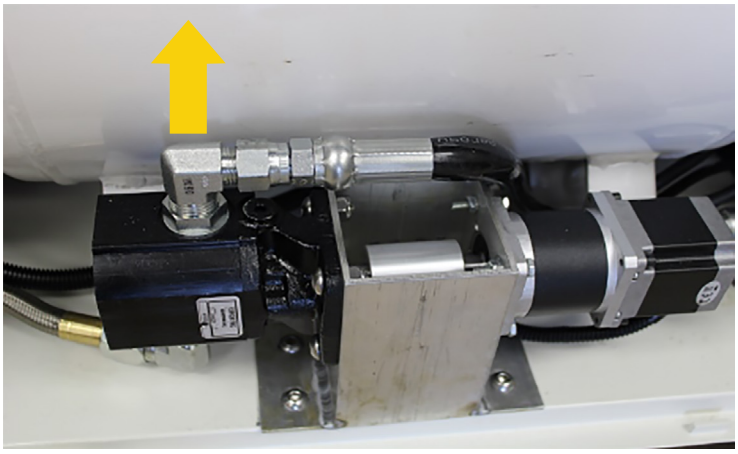
10 PUMP BLEEDING

Pump bleeding

After the tanks are filled with materials, you may have to bleed the air out of the pumps.

Remove the door and loosen the hose that is attached to the pump (NOT ALL THE WAY), place a towel underneath the fitting and open the coupler gently by leaving the pump on until product comes out.

Tighten the coupler and wait a few minutes until material comes out of the end of the material hose line.



11 MANUAL & REMOTE CONTROL

Manual / Remote control

The machine can be operated in two ways, remote control or manually controlled.

On the top of the machine there are two small screens. For example, on pump A you will see three blue buttons on the left side that controls your output.
The right three, (+/-) buttons controlling the motor capacity (load) should always be set to 75%, and the ON button should always be “ON” what is showing in the display as “OUT”

To operate the machine with remote, switch the right switch to remote.

- **A** - Hardener (**RED**)
- **B** - Resin (**BLUE**)
- **C** - Air

You can manually operate the remote, by switching the switches to the left and turning the air on which is located next to the main power switch.

12 CALIBRATION

Calibration

Once the resin and hardener are inside the tanks, you must circulate for 10 min the products to make sure there is no air left in the line.

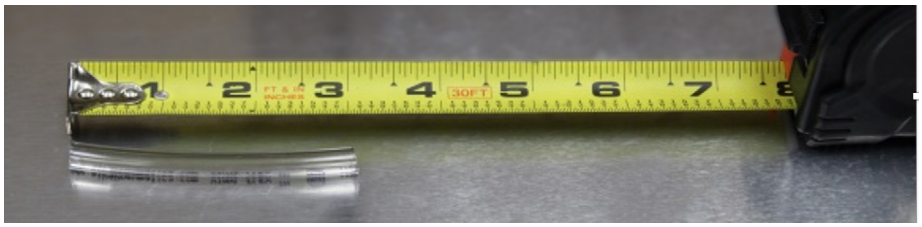
Calibrate the output of the two products (A/B) to mix ratio 1 to 1 by value, using measuring cups.

2” pipe size A resin 2 oz/min
3” pipe size A resin 6 oz/min
4” pipe size A resin 8 oz/min
6” pipe size A resin 12oz/min

Adjust the output by moving the appropriate buttons (+/- left side display) up or down.

13 SPRAY HEAD
Setup

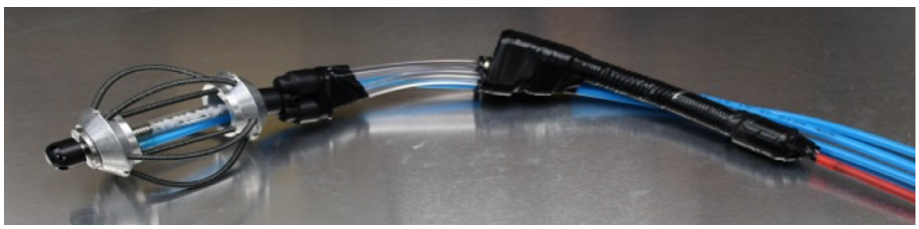
Setting up the spray head



Static Mixer Hose (3 inches long)

Static Mixer (2 inches long) inserted center of tube.

Make sure to attach the airline to the spray head through the skid, then your Y's then the clear tubes and finally the reducer. Now you are ready to connect the red and blue hose.



Once you have hooked your red and blue hoses, the camera is the last piece that has to be attached.

14 SPRAY HEAD
Cleaning

Cleaning the sprayhead

1.

Hold the spray head in a vise or a wrench and strike with the mallet, this will dislodge the spray head.

2.

There are two bearings inside the spray head. Once you clean your spray head you can put them back together

3.

Make sure you use thread lock around the bottom of the spray head.

4.

To secure the spray head, use your wrench and hold tight use the mallet to join the two pieces. While holding down on spray head strike with the mallet, this will lodge the spray head.

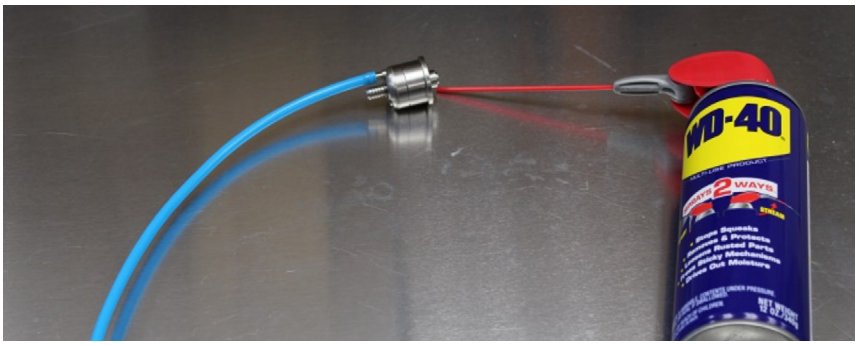
15 SPRAY HEAD

Cleaning

after spraying

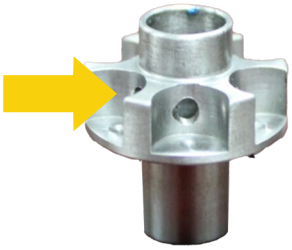
Cleaning the spray head after spraying

Once you disconnect from the skid use your drill and drill bit to insert inside the spray head and push product out of the spray head.



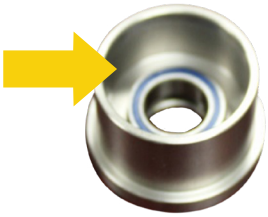
Use WD 40 if the spray head is not spinning after cleaning

Use Acetone to wipe the head of the spray head after using WD 40



NOTE

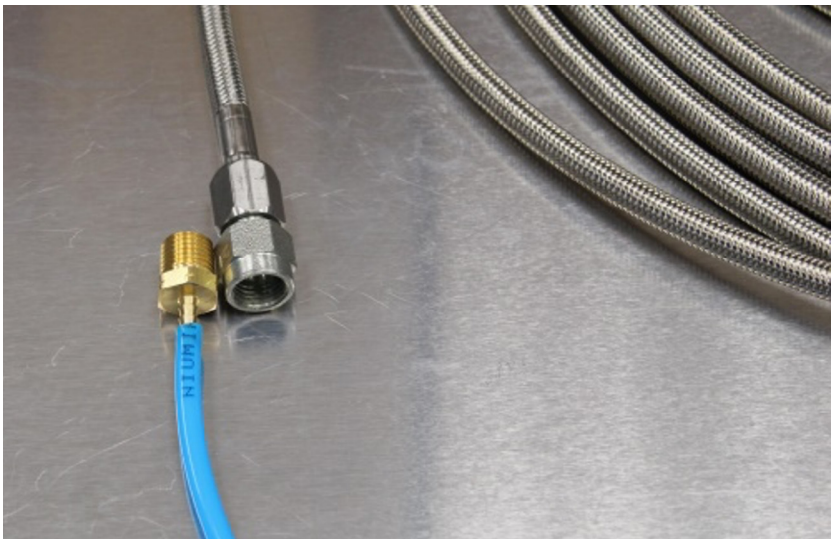
Sometimes cleaning the spray head involves cleaning the blade of the interior with light sand paper. This is only when you have cleaned the spray head and it will still not spin.



Also the interior of the top must be cleaned with light sand paper or acetone

16 REPLACING HOSES

Replacing your blue, red and air hoses



Your hoses are attached to the braided hose by a small nozzle.

Use a clamp and use the crimper to crimp the hose down.

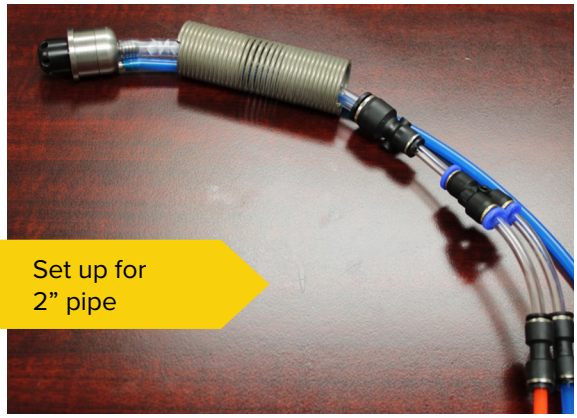
17 SKIDS

Skid Set up

Skid for
3”, 4”, 6” pipes

Set up for
3”, 4”, 6” pipes

Skid for
2” pipe



Set up for
2” pipe

18 RESIN INFORMATION

PipeCast Flex

- Polyurethane Corrosion Control Coating for Pipelines

PipeCast™ Flex is a fast-set, spray applied, two-component polyurea coating. It is 100% solids and contains zero VOCs.

When cured, it is highlighted by:

- Excellent corrosion protection and chemical resistance
- Excellent impact resistance even in sub-freezing weather
- High abrasion resistance for harsh environ-ments
- Seamless monolithic waterproof membrane that is tough and durable
- Odorless, non-toxic vapors

PROPERTY	A Side	B Side
Viscosity	350 cps	650 cps
Gel time	20 seconds	
Tack free time	45 seconds	

PROPERTY	VALUE
Hardness, Shore D, *D-2240*	50 D
Tensile strength, *D-412*	3290 psi
100% Modulus, *D-412*	1525 psi
200% Modulus, *D-412*	1980 psi
200% Modulus, *D-412*	2735 psi
Tear resistance/DIE-C, *D-624*	430 pli
Ultimate elongation, *D-412*	355%
Taber Abrasion, *CS17*	17.0 mg loss
Flexibility, *1/8" mandrel, D-522*	Pass

**Values obtained in laboratory setting for comparison purposes only and should not be considered specifications.*

Application Recommendations

PipeCast™ Flex adheres extremely well to properly prepared metal, wood, concrete, fiber glass, and other various metal surfaces. It should be applied through a two component, high pressure proportioning unit.

For further details consult the PipeCast™ Flex Material Standard and seek an IPP Technical Representative for application training.

Mixing Instructions:

Agitate resin blend (B) component thoroughly with a drum mixer before use to disperse pigment and assure homoge-neity. Do not thin. Do not agitate in air and moisture. Consult a Technical Representative regarding specific metal/ steel surface preparation.

Packaging, Storage & Shelf Life

PipeCast™ Flex is available in 5 gallon 55 gallon drums and 275 gallon totes. It should be stored in sealed containers between 60°F and 90°F. Shelf life is 12 months in factory sealed containers.

Safety

PipeCast™ Flex is for industrial use only. Avoid contact with eyes and skin. Do not inhale or ingest. When spraying, wear a respirator or fresh air hood. Spraying indoors requires forced ventilation.
Be sure to read SDS in its entirety prior to use.

19 MORE INFORMATION

WARRANTY

8.1 The following Warranty applies to the sale of new equipment,(excluding all consumable products) for one (1) year from the date of Delivery (the Warranty Period), in addition to any warranty offered by any manufacturer, IPP SOLUTIONS, LLC warrants that the equipment sold to Customer shall be free from defects in material or manufacturing workmanship. Further, IPP SOLUTIONS, LLC warrants that any equipment sold by IPP SOLUTIONS, LLC under these terms shall operate in conformance with the marketing and advertising material provided to Buyer by IPP SOLUTIONS, LLC. Further, IPP SOLUTIONS, LLC warrants that all service repairs shall be free from defects in material and workmanship for the balance of the Warranty Period or ninety (90) days after the repair is completed (whichever is longer). Items sold by IPP SOLUTIONS, LLC that constitute consumable products, including but not limited to brushes, liners, spot repair kits, T liner materials, resin, etc.

8.2 IPP SOLUTIONS, LLC warrants that used equipment sold to Customer shall be free from defects in material or manufacturing workmanship for a period of ninety (90) days from the date of delivery.

8.3 IPP SOLUTIONS, LLC equipment is used on job sites in the most demanding applications and environments. Under these conditions, and over time, IPP SOLUTIONS, LLC products may experience normal ware and tear. Wear and tear is not considered a defect and is not covered by the IPP SOLUTIONS, LLC Warranty This Warranty shall become null and void in the event the equipment is not maintained or serviced or used in strict compliance with the manufacturer's or IPP SOLUTIONS, LLC's use and maintenance requirements and recommendations.

8.4 Customer waives any and all rights under this Warranty unless Customer (i) provides written notification to IPP SOLUTIONS, LLC of any claim under the Warranty within five (5) days of discovering the basis for the warranty claim, and (ii) provides IPP SOLUTIONS, LLC with the opportunity to inspect and test parts claimed by Customer to be defective. If IPP SOLUTIONS, LLC confirms that the equipment is defective, IPP SOLUTIONS, LLC will use reasonable means to have a "loner" piece of replacement equipment shipped to Customer, and IPP SOLUTIONS, LLC will pay for the defective equipment to be either repaired or shipped to an IPP SOLUTIONS, LLC repair facility, at IPP SOLUTIONS, LLC's discretion. Customer will have full use of the loner equipment until the defective equipment has been repaired or replaced.

8.5 This Warranty does not extend liability of IPP SOLUTIONS, LLC for any consequential costs or damages that are attributable to any defective equipment.

8.6 This Warranty does not cover any claims relating to: natural wear and tear; unsuitable or improper use; defective assembly or operation by the Customer or third parties; use of improper component parts or equipment; use of improper replacement or consumable materials and parts; or impact damage to the equipment. This list is not exhaustive.

FOR MORE INFORMATION VISIT www.ippsolutions.com

Or contact your reseller / salesperson or IPP Solutions, LLC

Email: info@ippsolutions.com

Technical Support Contact: Yama Kohistani yama@ippsolutions.com +1.714.410.0707

IPP Solutions has over 70 years combined expertise in the pipe lining industry

Contact us today and we will customize the needs for your business.

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