PowerBlast Sandblast Cabinets

Pressure Delivery System

User Manual

Revision: May 26 2026

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EQUIPMENT SPECIFICATIONS

CONSTRUCTION

Specifications	Standard	Optional
Metal Thickness	12 gauge	On Request
Floor capacity	500 lb	1,000 to 5,000 lb
Gloves	Leather	Ergonomic
Piping Diameter	1/2"	N/A
Nozzle Material	Boron	N/A
Nozzle ID	1/4"	5/16”, 3/8”, 7/16”
Blast Gun	Foot Control	No-Contact Pedal
Window	Lexan	N/A
Lighting	24" LED Fixture	N/A

WORKING DIMENSIONS

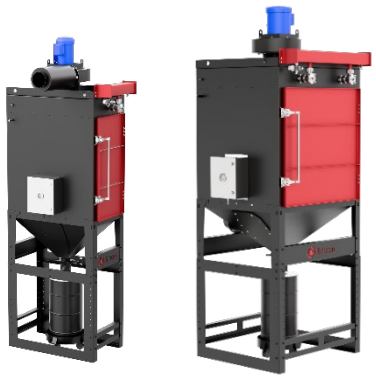
SANDBLAST CABINETS

Specifications	PB2836	PB2848	PB3636	PB3648
Interior Dimension (L x W x H)	28" x 36" x 35"	28" x 48" x 35"	36" x 36" x 35"	36" x 48" x 35"
Door Opening (W x H)	16" x 34-5/8"	16" x 34-5/8"	24" x 34-5/8"	24" x 34-5/8"
Overall Dimension (L x W x H)	28½" x 42¼"	28½" x 54¼"	36½" x 42¼"	36½" x 54¼"
Height	75"			

Specifications	PB3660	PB3672	PB4848	PB4860
Interior Dimension (L x W x H)	36" x 60" x 35"	36" x 72" x 35"	48" x 48" x 35"	48" x 60" x 35"
Door Opening (W x H)	24" x 34-5/8"	36" x 34-5/8"	36" x 34-5/8"	36" x 34-5/8"
Overall Dimension (L x W x H)	36½" x 66¼"	36½" x 78¼"	48½" x 54¼"	48½" x 66¼"
Height	75"			

Specifications	PB4872	PB6060	PB6072	PB7272
Interior Dimension (L x W x H)	48" x 72" x 35"	60" x 60" x 35"	60" x 72" x 35"	72" x 72" x 35"
Door Opening (W x H)	36" x 34-5/8"	48" x 43-1/4"	48" x 43-1/4"	58" x 38"
Overall Dimension (L x W x H)	48½" x 78¼"	60½" x 66¼"	60½" x 78¼"	72½" x 78¼"
Height	75"			

DUST COLLECTORS



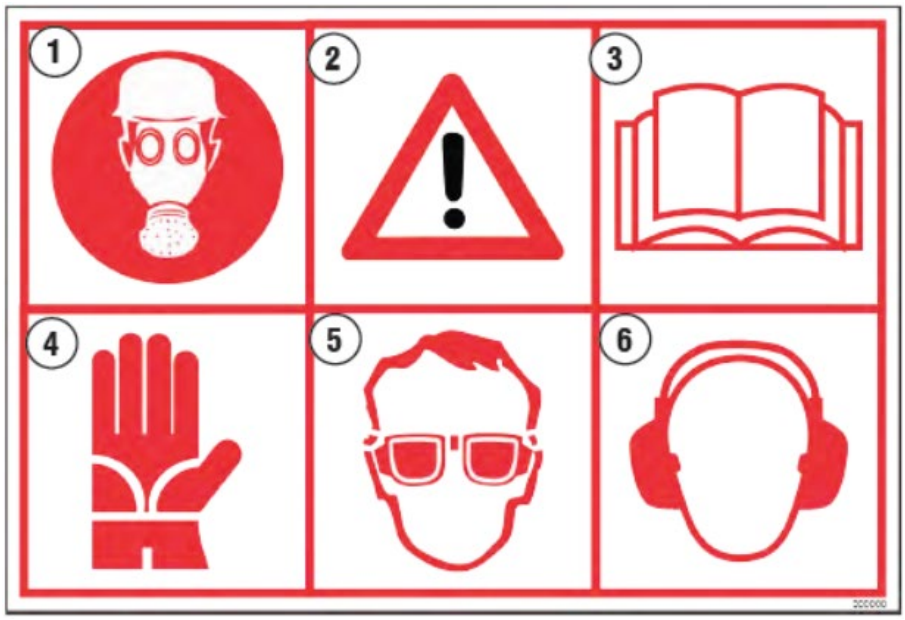
Specifications	CDC600	CDC900	CDC1200	CDC1800
Motor (HP)	1 HP	2 HP	3 HP	5 HP
Fan (CFM)	600 CFM	900 CFM	1,200 CFM	1,800 CFM
Number of Cartridge	2	2	4	4
Filter Capacity	636 sq.ft.	636 sq.ft.	1,272 sq.ft.	1,272 sq.ft.
Reclaimer Body	13"	16" or 24"	24" or 30"	
Fan Muffler (db)	Under 80			
Overall Dimension (L x W x H)	49" x 32" x 130-½		53" x 52-½" x 130-½	
Door Opening (L x H)	18-½" x 39"		38-½" x 39"	

CYCLONIC SEPARATOR

Specifications	RPB13	RPB16	RPB24	RPB30
Body Diameter	13"	16"	24"	30"
Air Flow (CFM)	600 CFM	900 CFM	900, 1,200 or 1,800 CFM	1,200 or 1,800 CFM
Inlet ID	4" / 5"	5" / 6"	6"	8"
Outlet ID	6"	7"	8"	10"
Overall Dimension (L x W x H)	22" x 22" x 78"	22" x 22" x 84-½"	30-¾" x 26-½" x 106"	32" x 32-½"x 106"

GENERAL SAFETY RULES

DANGER AND WARNING LABELS



1. Wear breathing mask
2. Observe warnings at all times
3. Read the Instruction Manual carefully
4. Wear safety gloves
5. Wear protective eyewear before use
6. Wear hearing protection before use

WARNINGS

Read and understand operator's manual and all other safety instructions before using this equipment. Failure to follow the SAFETY RULES and other safety precautions described in this document may result in serious injury.

WARNINGS

Sandblast cabinets may emit potentially hazard dust and airborne contaminants during operation. You must wear appropriate breathing protection at all times while operating or standing around the unit.

INSPECTION AND ACCEPTANCE

1. Carefully inspect the shipping carton for any signs of transport damage. The damage to the carton often indicates possibility of transport damage to the equipment inside.
2. Carefully remove your Sandblast Cabinet from the shipping carton and skid.
3. Check your equipment immediately to ensure that it is free of transport damage. Report any transport damage without delay for possible claim procedures. **Kresco** is not responsible for damage to equipment after it leaves our warehouse.
4. Check the equipment list and compare it with the parts you have received. If any parts are missing, contact Kresco immediately.

GENERAL SAFETY RULES

1. **KEEP WORKING AREA CLEAN**.
2. **GUARD AGAINST ELECTRIC SHOCK**. Non-skid footwear is recommended where damp or wet ground may be encountered. A ground fault circuit interrupter protected power line must be used for these conditions.
3. **DRESS PROPERLY**. Do not wear loose clothing or jewelry. They can be caught in the moving parts. Wear protective hair covering to contain long hair.
4. **USE SAFETY EQUIPMENT. WEAR SAFETY GOGGLES** or glasses with side shields.
5. **WEAR A DUST-PROOF MASK**.
6. **STAY ALERT. USE YOUR COMMON SENSE**. Concentrate on what you are doing. Do not operate the unit when you are tired or under the influence of drugs.
7. **DO NOT OVERREACH**. Keep proper footing and balance at all times.
8. **BEFORE STARTING TO WORK** you must wear earing protections, efficient for 80 dB or more.

UNIT USE AND CARE

1. **DO NOT FORCE THE UNIT**. It will perform better and safer at the rate for which it was designed.
2. **THE USE OF ANY OTHER ACCESSORIES** not specified in this manual may create a hazard.
3. **CLOSE THE MAIN BREAKER SWITCH BEFORE SERVICING** or when not in use.
4. **DO NOT ALTER OR MISUSE THE UNIT**. These units are precision built. Any alteration or modification not specified is misused and may result in a dangerous situation and will void the manufacturer's warranty.
5. **BEFORE CONNECTING THE UNIT**, to an electrical power, be sure the power is the same as that specified on the nameplate of the Sandblasting Cabinet. With power greater than that specified on the nameplate can seriously injure the user – as well as damage the Unit. If you have doubts, do not connect the unit.

Only a trained repairman should attempt ALL REPAIRS, electrical or mechanical. Contact the nearest **Kresco** repair service facility. Use only **Kresco** original replacement parts; any other parts may create a hazard and will void the warranty of the equipment.

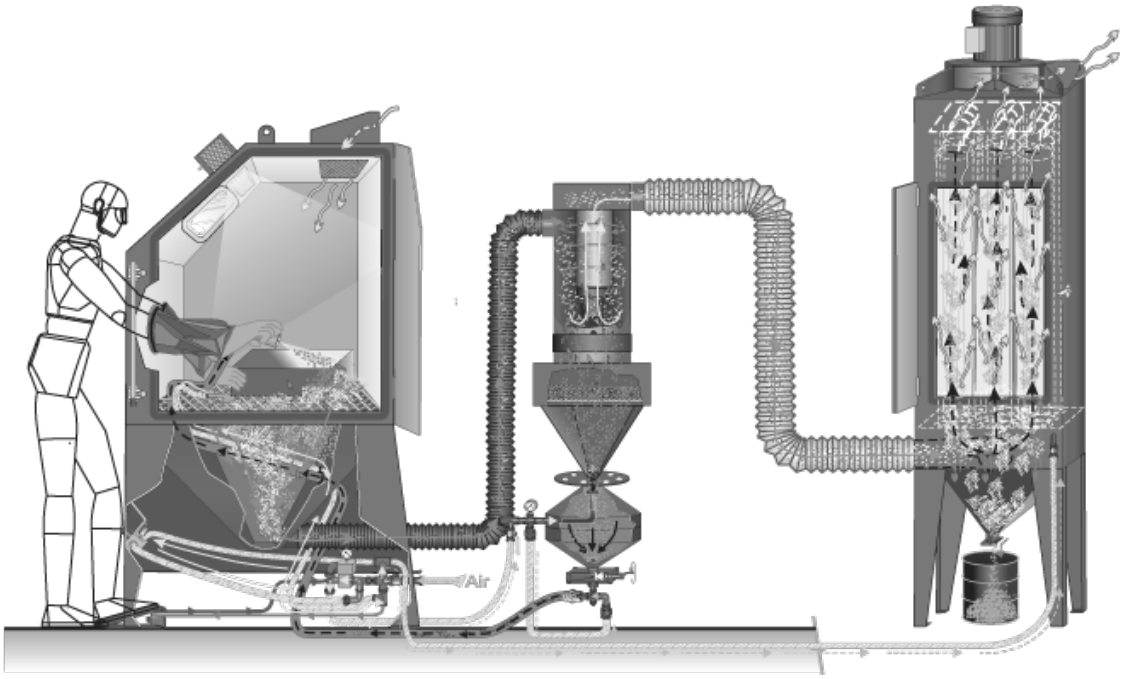
ENVIRONMENTAL CONDITIONS FOR WHICH THE EQUIPMENT IS DESIGNED

1. Indoor location
2. Altitude 6,562 ft max
3. Ambient temperature: 104 °F (40 °C) max
4. Relative humidity: 80 %
5. Main supply voltage fluctuation +/- 10 %

6. To use with noncombustible dust only

OVERVIEW OF THE SANDBLAST CABINET

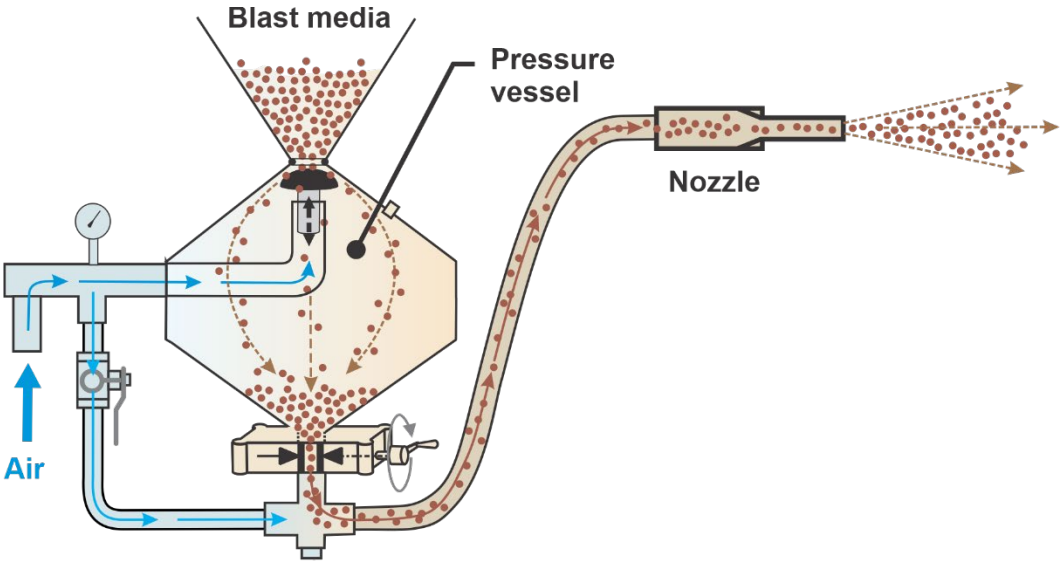
HOW IT WORKS DIAGRAM



PRESSURE SYSTEM WORKING PRINCIPLE

This Sandblast Cabinet is designed for pressure-type sandblasting operations. The working principle of pressure system relies on a pressure vessel (pressurized pot) used to store a reserve of abrasive media under high pressure and propel it at high velocity onto a workpiece.

When the air/media mix is released from the pressure vessel, it accelerates through at least 5-10 feet of sandblast hose and accelerates even more as it travels through the Venturi of the sandblast nozzle. When the pressure pot runs out of media, it must simply be depressurized so it can fill up automatically from the storage hopper located above, and pressurize again to conduct further sandblasting operations.



When the compressed air is activated through the push line, usually by a foot pedal, it raises up the pop-up valve (also called plunger) to seal the upper opening of the pressure pot, this is where is starts building its pressure.

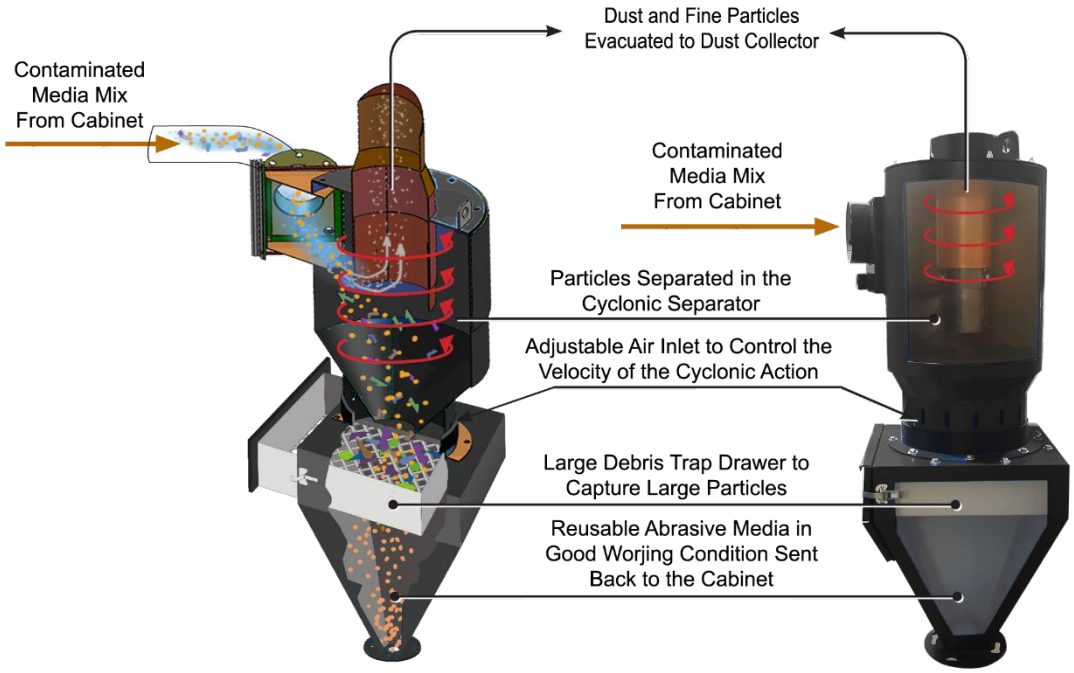
At the same time, the compressed air travels through the push line, which picks up abrasive media underneath the abrasive regulation valve and propel it at high velocity through the sandblast nozzle.

The pressure inside the pressure pot and the push line must be equaled for the pressure system to operate normally. Any leaks in the pressure pot, the push line or the media regulation valve may result in inefficient sandblasting operation and may cause damage to their components. Therefore, special care must be given to any parts involved in keeping the pressure system airtight (plunger, seals, couplings, nozzles, gaskets, doors, hoses, etc.).

The abrasive regulation valve located on the lower opening of the pressure pot allows to control the quantity of abrasive media that falls by gravity into the push line. The working pressure of the sandblasting operations can be controlled with a flow regulator located on the sandblast cabinet.

CYCLONIC SEPARATOR BASIC PRINCIPLE

The Cyclonic Separator, also known as the Abrasive Media Reclaimer, cleans the abrasive media circulating through your Sandblast Cabinet by separating improperly sized particulates from the abrasive media mix using a centrifugal motion.



The circulating Abrasive Media mix is typically composed of:

1. Dust and fine particles generated upon the impact of abrasive media onto the part
2. Scattered media of smaller density that are no longer efficient to be used in the sandblasting process
3. Media still in good size and condition - this is the material that we want to send back to the Sandblast Cabinet for further use
4. Large debris, such as paint or rust chips and other debris detaching from the parts during operations

With the correct centrifugal motion speed, unwanted fine particles (1 and 2) are exhausted to the Dust Collector from the top outlet, while media still in good working shape and dimensions (3) and heavier debris (4) continue their way to the bottom of the Cyclonic Separator.

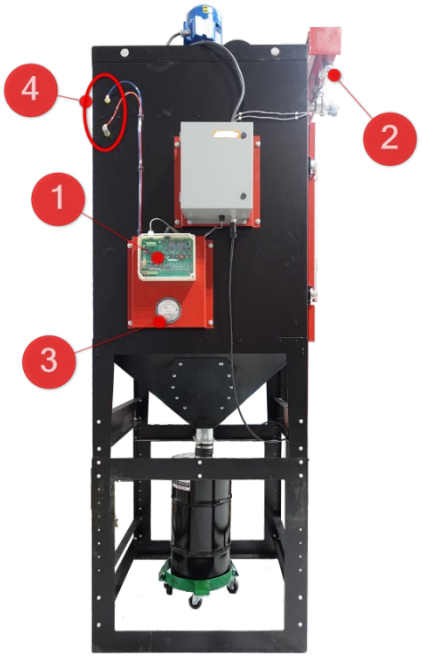
Heavier debris and large particles (4) are trapped in the Large Debris Drawer, leaving only Abrasive Media still in good working conditions reach the Storage Hopper for further use.

BASIC PRINCIPLE OF THE CARTRIDGE CLEANING SYSTEM

The dust collector filters dust and fine particles through two or four filter cartridges (depending on the model).

To clean the cartridges, the system triggers a series of pulses at regular intervals inside the cartridges to dislodge the dust buildup in the fold of the cartridge(s) (the pulse sound is audible).

When the Goyen valve receives the signal to open, it allows a volume of compressed air to pass through a diffusion flute, ensuring an efficient and uniform pulsation inside the cartridges.



The pulse sequence is controlled by a sequencer ① which emits signals at regular intervals to a Goyen valve ② located on the pneumatic cylinder in the top of the dust collector, upstream of a row of cartridges.

To visualize the state of contamination of the cartridges, a static differential pressure gauge ③ is connected to a probe installed on the dirty side and to another probe on the clean side ④ of the ventilation system.

The differential pressure value is indicated on the dial installed on the pulsation system box in inches of water (WC).

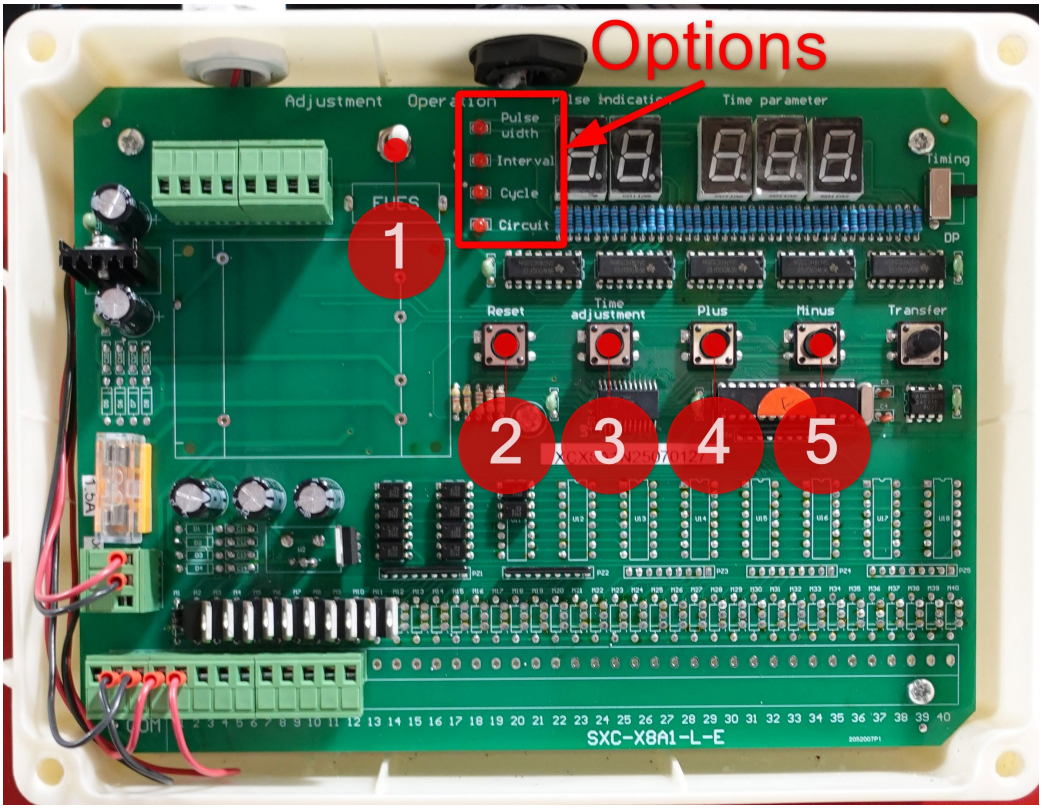
WHEN IS IT TIME TO REPLACE THE CARTRIDGE(S)?

A new cartridge should display a value of approximately 0 to 0.5 WC. As dust accumulates on the cartridge pleat, the pressure differential increases. During this process, it is normal to see dust escaping from the dust collector outlet.

A cartridge filtration system in good condition should be maintained at intervals of approximately 0 to 2 WC. When the differential pressure reading indicates a value of 2 WC or more, the cartridges need cleaning to restore normal airflow.

When the cartridges pulse cleaning system can no longer lower the differential pressure below 2 WC, it's time to replace the cartridges. All cartridges must be replaced simultaneously to ensure proper operation of the dust collector.

PULSE SEQUENCER PROGRAMMING



Follow the instructions below to modify the pulse sequencer settings:

1- Position the white switch ① to the 'Adjustment' position (left).
2- Press the black 'Time Adjustment' button ③ to switch between settings.
3- Using the black 'Plus' ④ and 'Minus' ⑤ buttons, change the settings to the desired value.
4- Once all parameters are set to the desired value, return the white switch ① to the 'Operation' position (right) so that the sequencer operates according to the defined parameters.
5- Press 'Reset' ② to save the new settings to the default program.

The table below provides more details on how the parameters work and the values recommended by Kresco.

#	Setting	Description	Recommended value
1	Pulse Width	Pulse duration (in seconds)	0.20 sec.
2	Interval	Interval between pulse signals (in seconds)	2 cartridges: 180 sec. (3 min.) 4 cartridges: 300 sec. (5 min.)
3	Cycle	Number of cycles (unused)	Leave at 0 for a continuous cleaning cycle
4	Circuit	Number of circuits (row of cartridges)	2 cartridges: 1 row 4 cartridges: 2 rows

INSTALLATION AND STARTING OPERATIONS

INSTALLATION GUIDELINES

1. **UNBOLT THE BLAST CABINET FROM THE PALLET**. Attach a strap or a hoist to the eyelets located on the top of the machine and move it to its final location using a lift truck or a crane.
2. **ENSURE THERE IS ADEQUATE SPACE ON BOTH SIDES OF THE CABINET** for full opening of part loading/unloading and maintenance access doors.
3. **MAKE SURE THE CABINET IS LEVELED AND WELL GROUNDED**. Do not place on a wooden floor or a rubber mat unless a ground wire has been installed.
4. **PLACE THE DUST COLLECTOR (CDC) AND THE CYCLONIC SEPARATOR (RPB) NEXT TO THE CABINET**. The standard layout suggests to install all auxiliary equipment behind the cabinet without obstructing the product access doors.
5. **CONNECT THE MEDIA CONVEY HOSE** using supplied hose clamps. The hose goes from the media hopper flange located at the bottom of the cabinet to the inlet of the cyclonic separator located on the side of the cyclone.
6. **CONNECT THE DUST CONVEY HOSE** using supplied hose clamps. The hose goes from the outlet of the cyclonic separator located on top of the cyclone to the inlet of the dust collector.
7. **CONNECT THE MEDIA SUCTION HOSE** using supplied hose clamp. The hose goes from the hose barb of the AR 3/4 abrasive regulation valve to the media inlet of the blast gun.
8. **CONNECT THE MALE ELECTRICAL POWER CABLE** from the blast cabinet to a 120 V / 15 amp power source.
9. **CONNECT THE FEMAL ELECTRICAL POWER CABLE** from the blast cabinet to the male electrical power cable of the dust collector.
10. **MAKE A HARDWIRE ELECTRICAL CONNECTION ON THE DUST COLLECTOR.** Perform this step only if your dust collector operates on 208-230 V, 240 V, 460 V or 575 V.

WARNINGS

Hardwire connections to the sandblast cabinet and/or the dust collector should be made by a qualified electrician and must comply to the codes, standards, and procedures specified by the local authority having jurisdiction.

For detailed electrical connections wiring requirements, overload and starter, refer to electrical drawings in Appendix of this user manual.

11. **CONNECT THE GROUND CABLE** located at the back of the sandblast cabinet to a properly grounded component using the supplied crocodile clamp.
12. **CONNECT THE COMPRESSED AIR** to the sandblast cabinet air inlet manifold located at the back of the sandblast cabinet USING STRAIGHT AND AIRTIGHT CONNECTION ONLY. Never use male-female quick couplings and other sources of connection that may cause air leak and negatively affect the performance of the sandblasting operations.

WARNINGS

SUPPLY ONLY CLEAN AND DRY AIR to the sandblast cabinet.

Moisture, oil and other airborne impurities present in the compressed air supply can contaminate the abrasive, prevent it from flowing freely, cause inefficient sandblasting and cause premature wear on plumbing and critical components.

If necessary, install an air dryer and/or inline air filtration system to remove any moisture or contaminants present in the supplied compressed air.

13. **OPEN THE BALL VALVE** located on the air inlet manifold to enable the air supply to the sandblast cabinet.

VERIFY INSTALLATION

1. Check that all pipes and hose connections are tightly fastened and airtight.
2. Check that all electrical box covers are securely installed.
3. Check that the dust drum under the dust collector is sitting firmly and is centered (if equipped).
4. Turn the cabinet power switch to the “ON” position. The cabinet lights will power on and the dust collector fan and the reclaimer will start.
5. Set the blast air pressure regulator to the desired pressure.
6. Insert both hands into the cabinet gloves, take the gun and press the foot pedal. Blasting will start, wait a few second and the blast flow will stabilize.
7. Turn the cabinet power switch to the ”OFF” position. Light will turn off and the dust collector fan and reclaimer will stop.

WARNINGS

Disable and lock out power sources before performing service or maintenance work. Do not look into the fan outlet to determine the correct motor rotation.

Check that the fan exhaust is clear of tools and free of debris before checking fan rotation. To avoid personal injury, stay clear of the fan exhaust.

BEFORE YOU START

1. **MAKE SURE TO WEAR PROPER PERSONAL PROTECTIVE EQUIPMENT (PPE) AND SAFETY EQUIPMENT**.
2. **MAKE SURE PEOPLE AROUND YOU ARE AWARE AND ALERT**.
3. **MAKE SURE THE BLAST NOZZLE IS CORRECTLY SCREWED IN PLACE**. Unstable or improperly installed blast nozzle may result in premature wear and tear on the blast gun and its components.
4. **MAKE SURE YOUR SIGHT VIEW GLASS HAS A PROTECTIVE FILM**.
5. **FOLLOW THE ABRASIVE MEDIA FILLING PROCEDURE** to fill your sandblast cabinet with media for the first time.
6. **LOAD A PART INSIDE THE SANDBLAST CABINET.**
7. **SWITCH ON YOUR SANDBLAST CABINET AND YOUR DUST COLLECTOR** using the ON/OFF switch located on the front of the cabinet.
8. **ADJUSTING THE MEDIA REGULATION VALVE PROCEDURE** to correctly set the flow of abrasive through the blast gun.
9. **FOLLOW THE SETTING WORKING AIR PRESSURE PROCEDURE** to correctly set the air pressure at the nozzle.
10. **FOLLOW THE ADJUSTING THE CYCLONIC SEPARATOR PROCEDURE** to correctly calibrate the abrasive media reclaiming system functioning.

Congratulations! You are now ready to start sandblasting.

ABRASIVE MEDIA FILLING PROCEDURE

WARNINGS

Your pressure cabinet is designed to operate efficiently with most recyclable abrasive media on the market, such as glass beads, aluminum oxide, steel grit, steel shot, or plastic media.

Certain types of material, such as recycled glass or silica sand are not recommended and should not be used in our sandblast cabinet. The use of these materials may cause premature wear and tear on critical components, and they may obstruct the ventilation system.

Always use an abrasive material that has been approved by writing by a Kresco Technical Representative.

Follow these steps to avoid blocking the media convey hose connection located at the bottom of the cabinet when adding abrasive media.

1. Turn ON the cabinet to activate the ventilation system.
2. SLOWLY add abrasive media through the floor grating inside the sandblast cabinet. Make sure that the media reclaiming hose located at the bottom of the cabinet is not obstructed and that the abrasive material is being vacuumed to the Cyclonic Separator. Keep pouring at a slow pace to avoid trouble.
3. The capacity of the storage hopper of this cabinet is 1.5 cubic feet – which is equivalent to approximately two (2) bags of low-density materials (such as glass beads or aluminum oxide) and three (3) bags of high-density materials (such as steel grit). Do not exceed this limit.

NOTE: Dumping abrasive media at the bottom of the cabinet at a faster pace than what the Dust Collector fan is able to suck through the Cyclonic Separator will result in blocking the media reclaiming hose. If this is the case, follow the UNBLOCKING THE MEDIA RECLAIMING HOSE procedure to unclog the media convey hose and fix the issue.

UNBLOCKING THE MEDIA RECLAIMING HOSE

Follow this procedure if your media reclaiming hose is completely obstructed by abrasive material accumulated at the bottom of the cabinet.

1. Turn OFF the Sandblast Cabinet
2. Put a low-height container or a sheet of any material underneath the media reclaiming hose connection to the cabinet
3. Loosen the hose clamp of the media reclaiming hose
4. Slowly pull out the media reclaiming hose from the cabinet bottom flange
5. With a hand or any small tool, remove excessive amount of abrasive material until at least half of the flange diameter is clear
6. Put back the media reclaiming hose in place and tighten the hose clamp
7. Turn ON the Sandblast Cabinet and observe the bottom of the cabinet to make sure the abrasive material is being vacuumed
8. Return to the Step 2 of the ABRASIVE MEDIA FILLING PROCEDURE

NOTE: Removed abrasive material can be reused.

ADJUSTING THE MEDIA REGULATION VALVE

The Media Regulation Valve is located at the bottom of the Pressure Vessel. This valve controls the volume of abrasive media entering the push line flowing through the blast nozzle.

To adjust the quantity of media propelled through the system, activate sandblasting and rotate the knob until the desired mix is obtained.

- → Turn the knob **anticlockwise** to bring more media into the mix.
- → Turn the knob **clockwise** to bring fewer abrasive media into the mix.

The correct opening depends on the media type and size (mesh). For this reason, it is necessary to adjust the Media Regulation Valve each time changing the abrasive media. Completely opening or closing the hole is not recommended.

Follow the guidelines below for the initial setup, and adjust as you get familiar with the system:

- → Rotate the control knob clockwise all the way in to close the valve completely
- → Rotate the control knob anticlockwise 2 ½ turns – this is your initial start position
- → Press on the foot pedal to activate sandblasting operations and observe the result during 10-15 seconds – the blast flow should be lightly colored, fogy, and stable
- → Increment ¼ turn at the time either way to adjust if necessary
    - If no discoloration is visible and there is a high pitch sound from the sandblast nozzle, then the adjustment is lean and the abrasive flow must be increased by rotating the control knob anticlockwise
    - If the feed to the sandblast nozzle is erratic and surging, then the feed it too rich and the abrasive flow needs to be decreased by rotating the control knob clockwise

ALLOW APPROXIMATELY 15 SECONDS OF SANDBLASTING OPERATIONS BETWEEN EACH ADJUSTMENT to notice the difference as the sandblast hose contains media from the previous adjustment.

SETTING WORKING AIR PRESSURE

PRESSURE SYSTEM AIR CONSUMPTION TABLE

The table below provides the air consumption (in cfm) of different Blast Nozzle given at different working air pressures.

	Working Pressure (PSI[1])										
Nozzle ID[3]	20	30	40	50	60	70	80	90	100[4]	120	← PSI[1]
1/8"	7	8	10	13	14	15	17	19	20	25	
3/16"	15	18	22	26	30	33	38	41	45	55	
1/4"	27	34	41	49	55	61	68	74	81	97	
5/16"	42	53	65	76	88	11	113	126	137	152	
3/8"	55	76	91	109	126	143	161	173	196	220	← CFM[2]
7/16"	72	100	124	149	170	194	217	240	254	300	
1/2"	96	129	165	195	224	252	280	309	338	392	
5/8"	173	212	260	308	356	404	452	504	548	611	

Legend

1. PSI: Pressure at the Blast Nozzle given in lb/sq. in.
2. CFM: Air Consumption at the Blast Nozzle given in Cubic Feet per Minute
3. Nozzle ID: Inside diameter of the Blast Nozzle.
4. Optimal working pressure for high-volume, fast cleaning application is 100 PSI

NOTE: Before selecting the Blast Nozzle and the working pressure of your application, make sure that your air compressor is able to supply air requirement for your, at least, a Blast Nozzle of one size bigger than the one you are choosing. That way, the working air pressure will be maintained as your Blast Nozzle wears out and its ID increases.

AIR PRESSURE ADJUSTMENT

To set the working pressure at the nozzle, follow these steps:

1. Press on the pedal to activate sandblasting operations
2. Pull the knob of the Pressure Regulator located on the front of the sandblast cabinet and slowly turn it until the desired pressure is obtained and observed on the manometer
3. Push the know to secure the pressure
4. Regularly inspect and maintain your Blast Nozzle to maintain the desired pressure

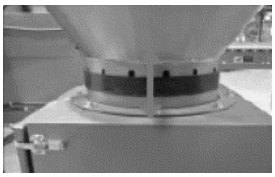
ADJUSTING THE CYCLONIC SEPARATOR

Although the Cyclonic Separator arrives factory set based on the Abrasive Media declared when purchasing your Sandblast Cabinet, it is possible and recommended to perform some minor adjustments on site to optimize the cleaning efficiency of your Abrasive Media, thus the overall performance of your process.

Furthermore, it is necessary to adjust the Cyclonic Separator each time you change Abrasive Media type or mesh size.

ADJUSTING THE 2" SBR 1/8" RUBBER BAND

The 2" SBR 1/8" Rubber Band is used to partially cover the holes located around the Separator body to control the airflow speed inside the Cyclonic Separator.



→ Covering the holes slows down the motion speed, letting particles of smaller density fall down the Cyclonic Separator back to the Sandblast Cabinet Storage Hopper

→ Uncovering the holes increases the motion speed, exhausting particles of bigger density to the Dust Collector

A velocity that is too slow for the Abrasive Media will result in a dusty media mix (incapacity of efficiently exhausting dust and fine particles to the Dust Collector; while a velocity that is too fast will draw Abrasive Media in good condition to the Dust Collector).

A properly adjusted motion speed will draw only dust and fine particles away, returning only good media back to the Storage Hopper for further use.

Follow these steps to adjust the 2" SBR 1/8" Rubber Band to the correct location:

1. WHEN YOU START YOUR EQUIPMENT FOR THE FIRST TIME, we recommend leaving all orifices covered to try recycling without interfering with the basic setup of the ventilation system
2. Sandblast for at least 4-8 hours in normal process conditions to allow the system to start sorting out particles with the new adjustment
3. Observe both the material being collected in the Dust Collector waste drum and the quality of Abrasive Media circulating through the cabinet
4. If the Abrasive Media seems dusty of inefficient, lower the 2" SBR 1/8" Rubber Band approximately ¼" to let a small quantity of air entering the Cyclonic Separator which will accelerate the velocity of the vortex
5. If the Dust Collector waste drum collects Abrasive Media that looks in good condition and/or if you notice that the level of Abrasive Media circulating in the cabinet has lowered significantly, move up the 2" SBR 1/8" Rubber Band approximately ¼" to slightly cover the orifices which will decelerate the velocity of the vortex
6. Empty the Dust Collector dust drum
7. Sandblast for at least 4-8 hours in normal process conditions to allow the system to start sorting out particles with the new adjustment and then repeat Steps 3 to 8 until the correct adjustment has been obtained

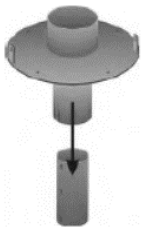
ALLOW APPROXIMATELY FOUR (4) HOURS OF SANDBLASTING OPERATIONS BETWEEN EACH ADJUSTMENT to notice the difference as the Abrasive Media mix must circulate a few times through the Cyclonic Separator so the new adjustment takes effect. Do minor adjustments each time. It can take a few routines before the correct vortex motion speed is obtained.

ADJUSTING THE TELESCOPIC TUBE INSIDE THE RECLAIMER

If the adjustment of the 2" SBR 1/8" Rubber Band has been proven inefficient to obtain a proper particle separation or in the event that the Abrasive Media type or mesh size is changed from the initial process, the adjustment of the Telescopic Tube is necessary.

The Telescopic Tube is positioned in such a way to capture the Abrasive Media mix circulating in the centrifugal motion at the right location near the Storage Hopper.

The bottom of the Telescopic Tube sucks in particles and forces them out through the outlet located on the top of the Cyclonic Separator.



→ The lower the Telescopic Tube, the higher volume of Abrasive Media mix is sucked and exhausted to the Dust Collector
→ The higher the Telescopic Tube, the less volume of Abrasive Media mix is sucked and exhausted to the Dust Collector

NOTE: The adjustment of the Telescopic Tube inside the reclaimer must be performed by or under the supervision of an experienced **Kresco** Technical Representative.

Follow these steps to adjust the Telescopic Tube to the correct location:

1. Move the Telescopic Tube up or down (depending on the desired output) 1" at the time.
2. Sandblast for approximately four (4) hours, and observe both the quality of the Abrasive Media inside the Storage Hopper and the dust collected inside the Dust Collector drum.
3. If necessary, empty the dust collection drum and repeat Steps 1 and 2 above until the correct position is obtained.

ALLOW APPROXIMATELY FOUR (4) HOURS OF SANDBLASTING OPERATIONS BETWEEN EACH ADJUSTMENT to notice the difference as the Abrasive Media mix must circulate a few times through the Cyclonic Separator so the new adjustment takes effect.

SHUTTING DOWN THE UNIT

1. Release the pedal to interrupt sandblasting operations.
2. Press on the Cartridge Pulse Cleaning button located on the side of the Dust Collector 4-6 times while the Sandblast Cabinet is still running (disregard if your system is equipped with optional automatic pulse cleaning system).
3. Wait for approximately 10 to 15 seconds before turning off the power switch and opening the door of the cabinet to allow the evacuation of dust in suspension.
4. Open the door and remove the treated parts from the sandblast cabinet.
5. Close air supply behind the Sandblast Cabinet.
6. Turn power switch to the “OFF” position.
7. Empty the dust collector waste drum. Replace the drum squarely on the dust drum platform and centered under the cover. The dust drum and cover must create an airtight seal.

FLUSHING OUT ABRASIVE MEDIA

It is recommended to clean out the Sandblast Cabinet from circulating Abrasive Media mix regularly to maintain an optimal performance during sandblasting operations.

The frequency rate at which it is recommended to replace the Abrasive Media depends on several factors, including the type and the mesh size of the media being used, the importance of maintaining a steady surface preparation quality, the level of contamination and the composition of the workpieces being treated inside the cabinet, the working pressure of the process, and the level of dust generated during operations.

Softer media, such as Glass Beads, must be replaced more frequently (after each 40 hours of use) whereas harder media, such as Aluminum Oxide and Steel Grit, may be replaced less frequently (after each 100-120 hours of use). These are only general guidance; every process is different and has its own particularity.

As a general rule, it is time to flush out and replace the Abrasive Media when it is found no longer efficient at being used in the process (cleaning rate is slower than usual, unable to meet the surface preparation standard, etc.) and the grain size is significantly smaller than its original size.

Follow these steps to clean out your system from circulating Abrasive Media mix:

1. Turn ON the Sandblast Cabinet and close the product access doors.
2. Press on the food pedal to activate sandblasting operations. While holding your foot on the pedal, adjust the working pressure on your Flow Regulator to 30 PSI and open completely the Media Regulation Valve.
3. Release the pedal, wait for approximately 20-30 seconds and turn OFF the Sandblast Cabinet.
4. Remove the Blast Nozzle completely from the nozzle holder.
5. If your Pressure Vessel is equipped with a Quick Depressurization Valve System, close the ball valve on the exhaust system to force the air to evacuate through the push line (disregard if your system doesn't have the option).
6. Place a large container (at least 5 gallons) inside the Sandblast Cabinet on the worktable.
7. Turn ON the Sandblast Cabinet and close the product access doors.
8. Aim inside the container and press on the foot pedal to activate sandblasting operations until Abrasive Media is no longer detected in the air stream exiting the push line.
9. Release the foot pedal to allow the remaining Abrasive Media located in the Storage Hopper to filling the Pressure Vessel.
10. During this time, gently knock on the bottom of the Sandblast Cabinet and on the Storage Hopper to help Abrasive Media release from the walls. Use the Air Blow Gun to clean the Sandblast Cabient walls, if necessary.
11. Repeat Steps 8 to 10 until Abrasive Media is no longer detected in the blast stream exiting the Blast Nozzle. This operation will empty all remaining Abrasive Media contained in the push line and the storage hopper.
12. Release the pedal and turn OFF the Sandblast Cabinet.
13. Remove the Media Convey Hose connecting the bottom of the Sandblast Cabinet to the Cyclonic Separator, and shake it above the container to collect Abrasive Media out of it.
14. Using a Shopvac or another industrial vacuum, thoroughly clean the bottom of the Sandblast Cabinet and the Storage Hopper through the Large Debris Drawer.
15. Dispose of the waste media mix in accordance with local jurisdictions and regulations.
16. Open the ball valve on the Pressure Vessel Quick Depressurization Valve System (disregard if your system doesn't have the option).
17. Screw the Sandblast Nozzle back in place and reinstall the Media Convey Hose and the Dust Collector Drum.
18. Follow the **ABRASIVE MEDIA FILLING PROCEDURE** to reload with brand new Abrasive Media.
19. Follow the **AIR PRESSURE ADJUSTMENT PROCEDURE** to adjust the proper working pressure.

ADDITIONAL STEPS WHEN CHANGING ABRASIVE MEDIA TYPE

WARNINGS

BEFORE ADDING ANY NEW ABRASIVE MATERIAL IN YOUR CABINET, contact a Kresco Technical Representative to validate the compatibility of the new product with your system and to receive guidance in setting up your cabinet with for new product.

Using an abrasive material that has not been authorized by writing by Kresco immediately voids the warranty of your system.

When changing the vocation of the Sandblast Cabinet and/or the type of Abrasive Media being used (not just the mesh size), it is important to readjust the Cyclonic Separator by following the **ADJUSTING THE CYCLONIC SEPARATOR** procedure previously described.

Also, to avoid contaminating the new Abrasive Media with the previous one, it might be necessary to repeat the **FLUSHING OUT ABRASIVE MEDIA** procedure one more time, depending on the potential impact of contaminated media with the new application.

OPERATING YOUR SANDBLAST CABINET

WARNINGS

Parts loaded inside the Sandblast Cabinet must be free of oil, grease and moisture. Remove all small parts that could detach from the treated part and cause blockage or damage in the ventilation system.

1. Open the air inlet ball valve located on the back of the Sandblast Cabinet
2. Turn the power ON using the switch located on the right-hand side of the Cabinet front
3. Open the loading door and load a part on the table grating or optional turntable
4. Close and seal the door properly with the door latch completely close
5. Insert both hands in the glove opening and approach the window
6. Grasp the sandblast gun and hold it firmly approximately one (1) foot from the part at a 90° angle (optimal process parameters may vary from an application to another)
7. Press on the pedal to activate sandblasting operation

WARNINGS

Avoid sandblasting the Sandblast Cabinet walls, window, lighting glass, media convey and/or air hoses, and towards the air intake trap located on the back of the cabinet.

8. Use the air blow gun to remove dust deposit on and inside the part
9. Allow 15-30 seconds before opening the loading door to evacuate dust and potentially hazardous airborne contaminants

MAINTENANCE

Follow these recommendations to ensure proper functioning of your system and avoid costly downtimes and emergency repairs.

We recommend including these routines in your PREVENTATIVE MAINTENANCE program and contact one of our Technical Representatives should you have any questions or concerns.

DAILY CARE AND MAINTENANCE ROUTINES

General Visual and Audible Inspection

Inspect all components in direct contact with the abrasive media for signs of wear and/or air leaks, and replace or service if necessary.

- Nozzle
- Gloves
- Window
- Lighting
- Sandblast gun media hose and couplings
- Sandblast gun air hose and couplings
- Sealing gasket on the product loading door seal, trap debris drawer located underneath the cyclonic separator and the dust collector door
- Media convey hose (between the Sandblast Cabinet and the Cyclonic Separator)
- Dust evacuation hose (between the Cyclonic Separator and the Dust Collector)
- Sandblast cabinet walls, table grating, turntable, etc.

Working Air Pressure

- Verify regularly the air pressure indicated on the manometer located on the left-hand side of the window while sandblasting
- Adjust the pressure if necessary (follow **SETTING WORKING AIR PRESSURE** procedure)

Abrasive Media

- Verify the quantity and the quality regularly at the bottom of the Sandblast Cabinet and in the Storage Hopper of the Cyclonic Separator
- If necessary clean out the system from its abrasive media and reload with new one (refer to FLUSHING OUT ABRASIVE MEDIA and ABRASIVE MEDIA FILLING PROCEDURE procedures)
- The capacity of the storage hopper of this cabinet is 1.5 cubic feet – which is equivalent to approximately two (2) bags of low-density materials (such as glass beads or aluminum oxide) and three (3) bags of high-density materials (such as steel grit). Do not exceed this limit.
- It is recommended to replace the softer Abrasive Media every 40 hours of operation and harder Abrasive Media every 100-120 hours of operation.

After the Sandblasting Operation

- Using the optional air blow gun, clean the freshly treated part and work area inside the cabinet (walls, window, hopper, work table, turntable, etc.)

- Wait approximately 30-60 seconds before opening the door and turning OFF the equipment to allow the evacuation of dust inside the working area (breathing dust and hazardous airborne contaminant can be harmful for you and workers in surrounding areas)
- Turn OFF electrical power
- Close the air inlet ball valve
- Clean or vacuum the floor surrounding the Sandblast Cabinet

PREVENTATIVE MAINTENANCE

Maintenance Routines	Frequency	Additional Information
Verify the Sandblast Nozzle ID	Daily to Weekly	→ Remove the Sandblast Nozzle conical support and remove the nozzle → Using a gauge or a drill bit that is 1/8" bigger than the size of your Sandblast Nozzle ID, try to insert it inside the orifice of the Sandblast Nozzle → If it fits, replace the Sandblast Nozzle immediately to avoid affecting negatively the performance of your sandblasting process
Service the Sandblast Gun	Weekly to Monthly	→ Completely disassemble the Sandblast Gun and check for signs of wear on critical parts (gaskets, air injector, nozzle, hoses, etc.) → Replace worn parts immediately as it could damage other components on your Sandblast Gun
Check hoses and connections	Monthly	→ Inspect all corrugated and rubber hoses for any signs of wear and/or audible air leak sound (rubber media and air hose, corrugated media mix and dust evacuation hose, gaskets, etc.) → Pay special attention to curves as they usually wear out faster Replace worn or pierced hoses immediately to avoid affecting negatively the ventilation of your system
Check door seals	Monthly	→ Inspect all door seals for any signs of wear and/or audible air leak sound (Sandblast Cabinet product loading door and window, Cyclonic Separator Large Debris Drawer, Dust Collector cartridge filter access door, etc.) → Replace worn or pierced seals immediately to avoid affecting negatively the ventilation of your system and contaminating surrounding work areas
Cyclonic Separator	Daily to Weekly	→ Empty the Large Debris Drawer regularly and put it back in place → Verify the seal of the Large Debris Drawer and replace if an air leak sound is audible → Verify the 2" SBR 1/8" Rubber Band position and adjust if necessary (follow the **ADJUSTING THE 2" SBR 1/8" RUBBER BAND** procedure)
Pressure Vessel	Monthly	→ WITH THE PRESSURE VESSEL PRESSURIZED: Perform the BUBBLING TEST to verify if there is any air leak in the Pressure Vessel → WITH THE PRESSURE VESSEL DEPRESSURIZED: Disassemble the Storage Hopper and inspect Pressure Vessel Plunger, Plunger O-Ring, Service Door Seal → WITH THE PRESSURE VESSEL DEPRESSURIZED: Inspect the wear parts of the Quick Depressurization System, Plugs (2), Sandblast Nozzle (Perform only if your Pressure Vessell is equipped with a Quick Depressurization System)
Media Regulation Valve	Monthly	→ Inspect and service the Media Regulation Valve urethan sleeve, plunger, gaskets and seals and replace when worn out. → Remove the two machines screw from the valve top body and the pipe nipple to access the valve components.

Maintenance Routines	Frequency	Additional Information
Dust collector	Daily to Weekly	→ Empty the dust collection drum located under the Dust Collector → Make sure the connection of the dust collection drum is airtight at all time → Verify the inline filter located at the air inlet of the collector and replace when needed
	Every 2 years / 2,000 hours	→ Verify the motor rotation of usage and replace when misaligned or noisy
Replace cartridge filter(s)	When indicated on the differential pressure gauge	→ Refer to the CARTRIDGE PULSE CLEANING SYSTEM BASIC PRINCIPLE section for more information

BUBBLING TEST

The Bubbling Test allows to identify if the Pressure Vessel leaks air (usually from the Plunger, the Plunger O-Ring, or the Service Door gasket) and is unable to build its internal pressure.

NOTE: Before you conduct the Bubbling Test, make sure your Sandblast Cabinet has enough Abrasive Media to completely fill the Pressure Vessel and have some exceeding Media standing in the Storage Hopper behind the Large Debris Trap Drawer.

PERFORMING THE BUBBLING TEST

- → Turn ON the Sandblast Cabinet
- → Remove the Large Debris Trap Drawer
- → Press on the Foot Pedal to activate Sandblasting Operation and look down the Storage Hopper

IF YOU SEE THE FORMATION OF BUBBLES

This means that the pressure of the Push Line is higher than the one of the Pressure Vessel and air infiltrates from the Media Regulation Valve assembly (Under Pressure Phenomenon).

Inspect and service the Pressure Vessel components (Plunger, Plunger Seals, Service Door Seals, Quick Depressurization System Plugs and Sandblast Nozzles) to fix the leak and perform the Bubbling Test again to determine if the problem is solved.

IF YOU DON'T SEE BUBBLES

This means that THE PLUNGER AND ITS O-RING ARE AIRTIGHT. If no leaks are found on the Service Door Gasket and at the connection with the Media Regulation Valve, then the Pressure Vessel will be able to build its pressure correctly and you may continue operating your Sandblast Cabinet as usual.

UNCLOGING MEDIA REGULATION VALVE USING PRESSURE

This method uses the energy of the pressurized air contained in the Pressure Vessel to remove any obstructions preventing the Abrasive Media to fall freely and could, in some circumstances, unclog the Media Regulation Valve without the need to disassemble it.

1. Make sure that the plug underneath the Media Regulation Valve is in place.
2. Remove the Sandblast Nozzle.
3. Press on the foot pedal to activate sandblasting operation and reduce the working pressure to 30 PSI using the flow regulation knob. Release the foot pedal.
4. Close the Ball Valve located at the beginning of the Push Line.
5. Press on the foot pedal to activate sandblasting operation and wait for a few seconds.

IF YOU SEE ABRASIVE MEDIA FLOWING FROM THE SANDBLAST HOSE

This means that the Media Regulation Valve was unclogged successfully. Reopen the Ball Valve (4), adjust the working pressure (3) to the desired pressure and put back the Sandblast Nozzle (2) in place. You may now continue operating your Sandblast Cabinet as usual.

IF YOU DON'T SEE ABRASIVE MEDIA FLOWING FROM THE SANDBLAST HOSE

This means the method was not successful in resolving the issue. Reopen the Ball Valve (4), adjust the working pressure (3) to the desired pressure and put back the Sandblast Nozzle (2) in place. Turn OFF your Sandblast Cabinet and proceed to disassembling and servicing the Media Regulation Valve manually.

SPARE PARTS LIST

#	Kresco Code	Description
Window*		
1A (<48" Cabinet)	LEX-LC16X24X1/4	Lexan Clear 16" Width X 24" Long X 1/4" Thick
1B (48"+ Cabinet)	LEX-LC16X44X1/4	Lexan Clear 16" Width X 44" Long X 1/4" Thick
2A (<48" Cabinet)	LEX-PL16X24X20MIL	Protector For Lexan 16" Width X 24" Long X 20MIL" Thick
2B (48"+ Cabinet)	LEX-PL16X44X20MIL	Protector For Lexan 16" Width X 44" Long X 20MIL" Thick
Gloves		
3	GLO-LEA-8	8" Glove with Leather Sleeve (Pair)
4	FIX-T8-1/2X6-1/2SS304	T-Clamp SS304 8-1/2" X 6-1/2"
Abrasive Regulation Valve		
5	AMV-FINAII-1-1/4	Abrasive Regulation Valve for Pressure Sandblast Cabinet
6	AMV-FINAII-1-1/4-REPAIRKIT	Abrasive Regulation Valve Repair Kit
Door Seal (Cabinet, Dust Collector, and Trap debris Drawer)		
7	ROL-D15/32X5/16-ME	Foam Neoprene Type D 15/32" X 5/16" Adhesive for Cabinet Window and Debris Drawer (Sold by Foot)
8	ROL-D3/4X17/32-S	Foam Neoprene Type D 3/4" X 17/32" Adhesive for Cabinet and Dust Collector Doors (Sold by Foot)
Sandblast Hose and Coupling Parts		
9	SBH-1/2X1-5/16	Sandblast Hose SBH 1/2" ID X 1-5/16” OD Black
10	COU-NHHC1/2-50MM-NY	Nozzle Holder Hose Coupling for 1/2" ID X 1-5/16" OD Blast Hose and 50mm Threaded Nozzle, Nylon
11	COU-THQC1-1/4-NPSF-AL	Threaded Quick Coupling (Chicago) 1-1/4" NPSF Thread, Aluminum
12	FIT-A1/2X1/2BF-BR	Adaptor Brass 1/2" Barb X 1/2" NPTF
Sandblast Nozzles		
13A	NOZ-DVNB-1/4B-50MM	Double Venturi Nozzle Boron 1/4" ID X 50mm Threaded Nozzle
13B	NOZ-DVNB-5/16B-50MM	Double Venturi Nozzle Boron 5/16" ID X 50mm Threaded Nozzle
13C	NOZ-DVNB-3/8B-50MM	Double Venturi Nozzle Boron 3/8" ID X 50mm Threaded Nozzle
13D	NOZ-DVNB-7/16B-50MM	Double Venturi Nozzle Boron 7/16" ID X 50mm Threaded Nozzle
13E	NOZ-DVNB-1/2B-50MM	Double Venturi Nozzle Boron 1/2" ID X 50mm Threaded Nozzle

#	Kresco Code	Description
Pressure Vessel and Quick Depressurization System		
14	VPA-POP-2-1/2-PLUNGER	Plunger
15	VPA-POP-2-1/2-RING	Plunger O-Ring
16	FIT-P1M-GA	Plug Galvanized Steel 1" NPTM
17	NOZ-SHO5/16BOR	Sandblast Nozzle 5/16" ID Straight Bore, Boron Carbide
18	MAN-P-160P-U1/4-NM-M001	Manometer Pressure 0-160 PSI Under 1/4" NPT Thread
Poly Media Hose*		
19A	FLX-POL4-GRN	Polyurethane Hose 4" Green
19B	FLX-POL5-GRN	Polyurethane Hose 5" Green
19C	FLX-POL6-GRN	Polyurethane Hose 6" Green
19D	FLX-POL7-GRN	Polyurethane Hose 7" Green
19E	FLX-POL8-GRN	Polyurethane Hose 8" Green
Poly Dust Hose*		
20A	FLX-PVC5-GRY	PVC Hose 5" Gray
20B	FLX-PVC6-GRY	PVC Hose 6" Gray
20C	FLX-PVC7-GRY	PVC Hose 7" Gray
20D	FLX-PVC8-GRY	PVC Hose 8" Gray
20E	FLX-PVC10-GRY	PVC Hose 10" Gray
Hose Clamp		
21 (4" Hose)	FIX-T4-1/2X2-17/64SS304	T-Clamp SS304 4-1/2" to 2-17/64"
21 (4"-5" Hose)	FIX-T5X3-1/8SS304	T-Clamp SS304 5" to 3-1/8"
21 (6" Hose)	FIX-T6-1/2X4-3/4SS304	T-Clamp SS304 6-1/2" X 4-3/4"
21 (7"-8" Hose)	FIX-T8X6-1/2SS304	T-Clamp SS304 8" to 6-1/2"
21 (10" Hose)	FIX-T10X8-384SS304	T-Clamp SS304 10" to 8-3/4"
Cartridge Media		
22	FILT-CM318-85/15-MERV11	Filtering Cartridge 12-3/4” Dia. X 36” Long MERV 11

*The Window Lexan Clear (1) and Protector for Lexan (2) combination must match the same letter.

**The Poly Media Hose (19) and the Poly Dust Hose (20) combination must match the same letter.

TROUBLESHOOTING

Type of Failure	Possible Cause	Resolution
Excessive dust in the cabinet (poor visibility) and / or very dusty abrasive (inefficient)	Non-recyclable abrasive[1]	Follow **FLUSHING OUT ABRASIVE MEDIA** procedures and replace with recyclable abrasive.
	Media Reclaiming Hose (at the bottom of the cabinet) is partially or completely blocked	Follow the **UNBLOCKING THE MEDIA RECLAIMING HOSE** procedure for resolving a clogged suction hose.
	Sandblast Cabinet air inlet trap is blocked	Verify the air inlet trap behind the Sandblast Cabinet and make sure it is open and clear.
	Cartridge Media partially or completely clogged	Empty the dust drum located underneath the Dust Collector Verify and replace cartridge media if needed (Note: Cartridges should never be cleaned using water).
	Dust Collector motor reversely connected (the impeller rotates in the wrong direction, blowing air inside the Sandblast Cabinet rather than the opposite)	Contact an Electrician and verify the electrical connection of the motor.
	Incorrect adjustment of the 2" SBR 1/8" Rubber Band of the cyclonic separator. The orifices are partially or completely close, which decreases the velocity inside the Cyclonic Separator and the dust is not efficiently evacuated.	Follow the **ADJUSTING THE 2" SBR 1/8" RUBBER BAND** procedures and open gradually the holes to increase velocity. **NOTE**: If abrasive media has changed since the initial usage of the Sandblast Cabinet, contact a **Kresco** Technician for the proper adjustments.
Media Reclaiming Hose Outlet (behind the cabinet) partially or completely blocked	Incorrect filling procedure: too much abrasive or poured too quickly	Follow the **UNBLOCKING THE MEDIA RECLAIMING HOSE** procedure for resolving a clogged suction hose and follow the **ABRASIVE MEDIA FILLING PROCEDURE** to correct the issue.
	Lack of CFM (problem with the Dust Collector) which causes the outlet to become progressively blocked.	Follow the procedures for resolving a dusty cabinet as described above.

[1] Never use non-recyclable abrasive in Kresco Sandblast Cabinets, such as slag, silica sand, recycled glass, or others like them. Kresco cabinets are designed to be used exclusively with recyclable abrasive that generates a limited amount of dust. Ask your Kresco Technical Representative for more information.

Type of Failure	Possible Cause	Resolution
Abrasive Media in good working condition ends up in the dust container of the Dust Collector Drum (too much velocity (cfm) in the Cyclone Separator)	Incorrect adjustment of the 2" SBR 1/8" Rubber Band of the cyclonic separator. The orifices are partially or completely open, which increases the velocity inside the Cyclonic Separator.	Follow the **ADJUSTING THE 2" SBR 1/8" RUBBER BAND** procedures and cover gradually the holes to reduce velocity **NOTE**: If abrasive media has changed since the initial usage of the Sandblast Cabinet, contact a Kresco Technician for the proper adjustments.
	The seal around the Large Debris Drawer is damaged or not properly installed	Check the gasket around the drawer to make sure it is tight and replace if necessary.
	The Telescopic Tube of the Cyclonic Separator is not adjusted properly due to a change of abrasive or it is damaged.	Contact your **Kresco** Technical Representative[2].
Lack of abrasive in the mix (the nozzle blows mainly air)	There is no more abrasive media in the Storage Hopper for one of the following reasons: 1. The whole media reserved turned into dust and was exhausted to the Dust Collector 2. An incorrect adjustment of the Cyclonic Separator evacuated all the media into the Dust Collector 3. The Media Reclaiming Hose Outlet (behind the cabinet) partially or completely blocked	1. Follow the **ABRASIVE MEDIA FILLING PROCEDURE** to add media in your system. 2. Follow the "Abrasive Media in good working condition ends up in the dust container of the Dust Collector Drum (too much velocity (cfm) in the Cyclone Separator)' failure resolution above. 3. Follow the **UNBLOCKING THE MEDIA RECLAIMING HOSE** procedure to unclog the hose.
	Incorrect adjustment of the Media Regulation Valve (the adjustment is too tight, not letting enough Abrasive Media into the mix)	Follow the **ADJUSTING THE MEDIA REGULATION VALVE** procedure and slightly rotate the knob anticlockwise, 1/4 at the time, to allow more Abrasive Media in the mix.
	Blockage in the push line (Media Regulation Valve and/or Sandblast Nozzle)	1. Remove the Sandblast Nozzle and press on the Foot Pedal to activate sandblasting operation 2. Follow the **UNCLOGING MEDIA REGULATION VALVE USING PRESSURE** procedure or service.

[2] The Telescopic Tube of the Cyclonic Separator is factory adjusted for the abrasive specified at the time of purchase. If the abrasive changes during operation, it may be necessary to readjust the inner tube to alter the movement and flow of air within the Cyclonic Separator.

Type of Failure	Possible Cause	Resolution
	Sandblast Hose and/or Couplings are damaged or have an air leak	1. Inspect the hose for holes (especially under the screened floor if it has been exposed to abrasive blasting). 2. Disconnect the Sandblast Hose from the Media Regulation Valve, remove and inspect the Couplings to see if they are damaged or worn out. 3. Replace the Sandblast Hose and/or its Couplings if necessary.
	Restriction at the air supply connection (a quick connect or a connection that creates a restriction has been used)	Review the **INSTALLATION AND STARTING OPERATIONS** procedure and use only straight couplings as indicated in the manual.
	Under Pressure Phenomenon[3] is observed (the Pressure Vessel has a leak and looses its pressure)	Identify and fix the air leak by following the steps below: 1. Proceed with the **BULLING TEST** to see if the leak comes from the Pressure Vessel itself (Plunger, Pressure O-Ring, Service Door). 2. Close the Ball Valve at the beginning of the Push Line to see if the leak comes from the Quick Depressurization System.
	Compressor unable to supply the compressed air requirement for the application	Review the **SETTING WORKING AIR PRESSURE / PRESSURE SYSTEM AIR CONSUMPTION TABLE** procedure to ensure your compressor is able to supply the air pressure and volume required for your application.
	Abrasive Media of bad quality or incompatible with the system (too fine, dusty or non-recyclable)	Follow the procedure to resolve “Excessive dust in the cabinet (poor visibility) and / or very dusty abrasive (inefficient)” above.
	Water infiltration in the system (humidity found in the Abrasive Media)	Review the Installation Guidelines or contact your Kresco Technical Representative.
	Use of static media (plastic or baking soda)	These blasting media require a special configuration to operate correctly in a Sandblast Cabinet due to their very low density

[3] The Under Pressure Phenomenon occurs when the Pressure Vessel has a leak (Plunger, Plunger Seals, Service Door Seals and/or Quick Depressurization System Plugs) and looses its pressure. The pressure inside the Push Line is higher than the one in the Pressure Vessel, which creates an updraft airflow inside the Media Regulation Valve, preventing the Abrasive Media from falling freely.

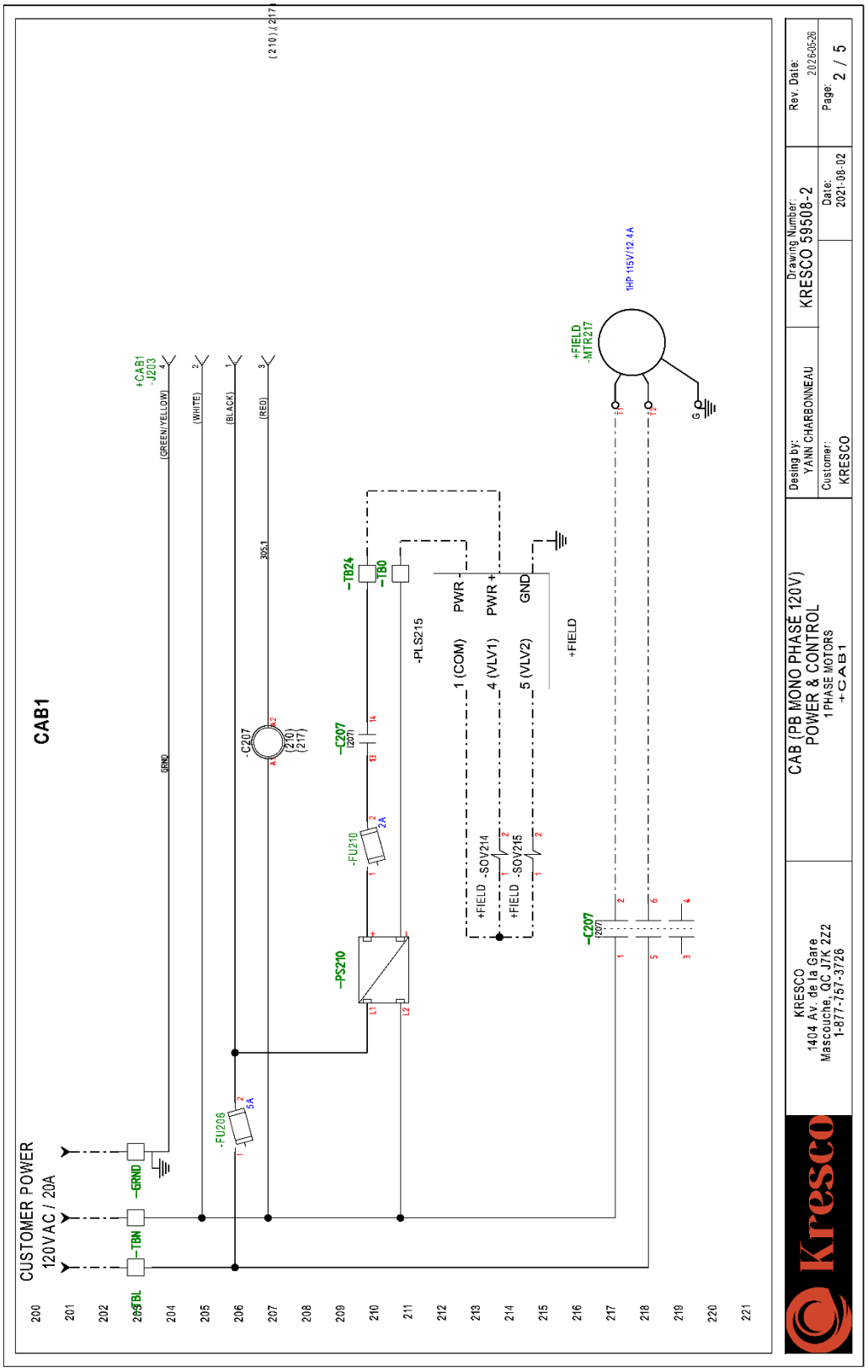
Type of Failure	Possible Cause	Resolution
		and/or high static. Contact your **Kresco** Technical Representative.
	Large Debris Trap Drawer partially or completely obstructed	Turn OFF the Sandblast Cabinet to shut off the Dust Collector Impeller, open and empty the Large Debris Trap Drawer.
	Bottom of the Pressure Vessel clogged (a debris infiltrated the system and is blocking the entrance of the Media Regulation Valve)	Follow the **UNCLOGING MEDIA RUGULATION VALVE USING PRESSURE** procedure or proceed to disassemble and service the Media Regulation Valve.
	Abrasive Regulation Valve partially or completely obstructed	1. Follow the **UNCLOGING MEDIA RUGULATION VALVE USING PRESSURE** procedure 2. Proceed to disassemble and service the Media Regulation Valve.
Too much abrasive in the mix (the blast stream is unstable, erratic and surging)	Incorrect adjustment of the Media Regulation Valve (the adjustment is too loose, letting too much Abrasive Media into the mix)	Follow the **ADJUSTING THE MEDIA REGULATION VALVE** procedure and slightly rotate the knob clockwise, 1/4 at the time, to restrict the quantity of Abrasive Media in the mix.
	Over Pressure Phenomenon[4] is observed (the Push Line is restricted and/or has a leak)	Identify and fix the pressure issue by following the steps below: 1. Make sure that the Ball Valve located on the Push Line is completely open. 2. Dismantle the Push Line, inspect all Couplings, Sandblast Hose, and Sandblast Nozzle to make sure there is no leak, replace worn out components, if necessary. 3. Follow the **UNCLOGING MEDIA RUGULATION VALVE USING PRESSURE** procedure to verify if there is a blockage in the Media Regulation Valve. 4. Disassemble, inspect and service the Media Regulation Valve (gaskets, seals, connectors).

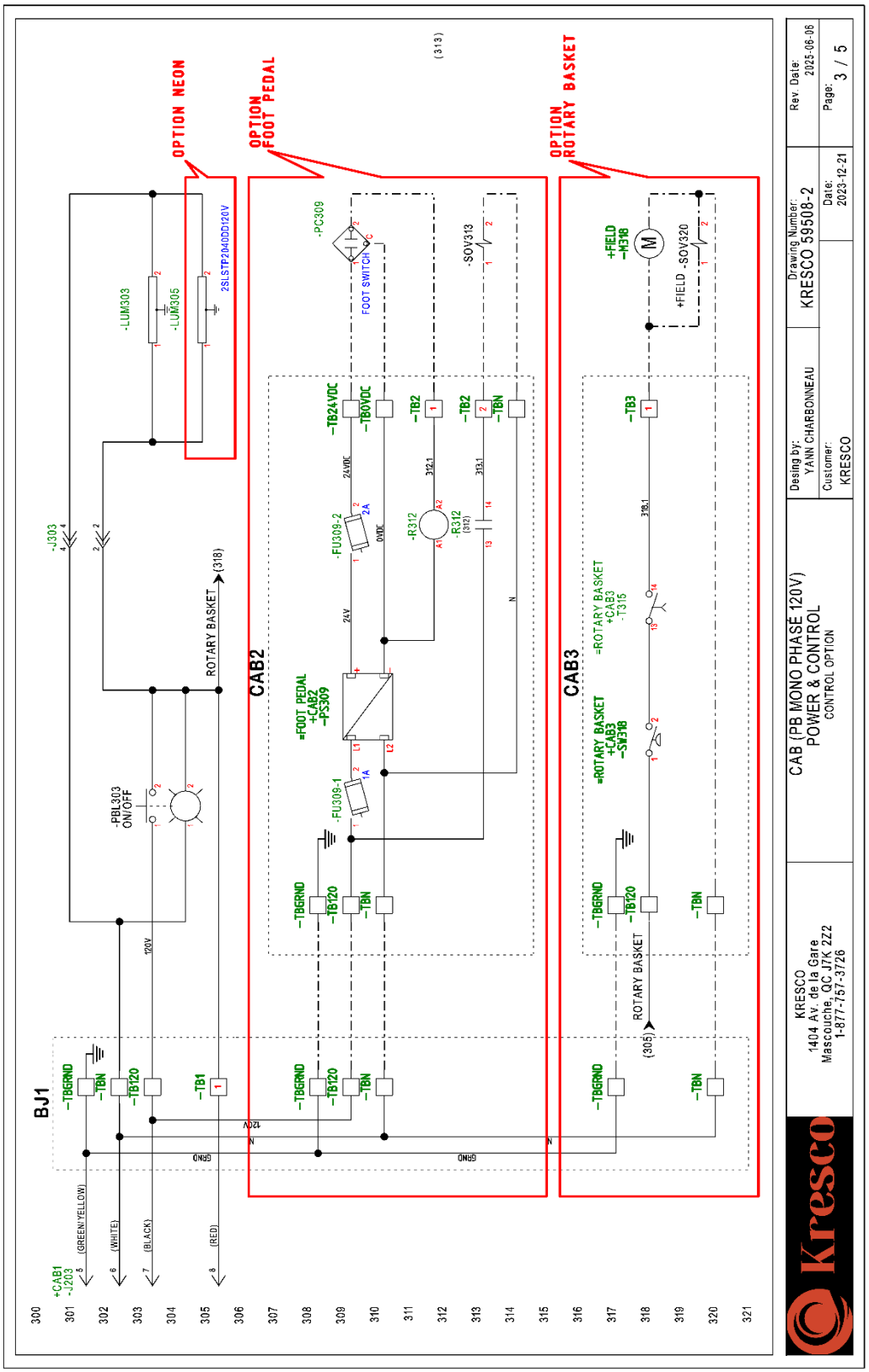
[4] The Over Pressure Phenomenon occurs when the Push Line has a leak (pierced sandblast hose, worn sandblast nozzle, coupling miss installed or worn) or has a restriction in airflow (the ball valve on the push line is not completely open, there is a blockage in the push line). The pressure inside the Pressure Vessel is higher than the one in the Push Line, which creates a downdraft airflow inside the Media Regulation Valve, pushing the Abrasive Media with force, rather than letting it fall freely by gravity.

Type of Failure	Possible Cause	Resolution
No Abrasive Media is found in the mix (the Pressure Vessel doesn't pressurize when you press on the foot pedal)	Push Line is obstructed (a debris made it to infiltrate the system and is causing a blockage)	1. Remove the Sandblast Nozzle and press on the foot pedal – If the blast stream now has Abrasive Media, then the blockage is located in the Sandblast Nozzle. 2. Dismantle the Push Line, inspect all Couplings, Sandblast Hose, and Sandblast Nozzle to identify the blockage, replace worn out components, if necessary.
Blast Stream is erratic and surging	Incorrect adjustment of the Media Regulation Valve (the adjustment is too loose, letting too much Abrasive Media into the mix)	Follow the **ADJUSTING THE MEDIA REGULATION VALVE** procedure and slightly rotate the knob clockwise, 1/4 at the time, to restrict the quantity of Abrasive Media in the mix.
Unable to set the desired working air pressure	Compressor is unable to supply the air pressure or volume requirements for the application	Check the **PRESSURE SYSTEM AIR CONSUMPTION TABLE** and compare it with your compressor to make sure it is powerful enough to supply the minimum air requirements. **NOTE**: If your compressor is not dedicated to the sandblasting equipment, consider the air consumption of other tools/equipment/applications.
	Sandblast Nozzle is worn out	If your Sandblast Nozzle ID has expanded to a wider opening, then its air demand has increased exponentially and the compressor might not be able to supply the minimum air requirements for this configuration anymore. Inspect and replace the Sandblast Nozzle, if necessary.
	Incorrect air inlet installation causing a restriction in the air flow	Review the **INSTALLATION GUIDELINES** and use only straight, airtight connectors (avoid quick-disconnect couplings or couplings that could cause air leaks or restrictions).
Premature wear and tear on the Sandblast Hose	The Sandblast Hose is worn out and leaks air, which increases considerably the velocity inside the Sandblast Hose, eroding its internal walls and other components of the push line	1. Replace the Sandblast Hose and Sandblast Nozzle 2. Inspect Couplings and replace, if necessary.

ELECTRICAL DRAWINGS

120V-1PH (CDC600)


CAB1
CUSTOMER POWER
120VAC / 20A
-GRND
-TBN
-TBL
+CAB1
-J203
(GREEN/YELLOW)
(WHITE)
(BLACK)
(RED)
GRND
-FU206
5A
-C207
(210)
(217)
-FU210
2A
-PS210
L1
L2
-C207
-TB24
-TB0
-PLS215
1 (COM)
4 (VLV1)
5 (VLV2)
PWR -
PWR +
GND
+FIELD
+FIELD -SOV214
+FIELD -SOV215
+FIELD
-MTR217
1HP 115V/12.4A
T1
T2
G
KRESCO
1404 Av. de la Gare
Mascouche, QC J7K 2Z2
1-877-757-3726
CAB (PB MONO PHASE 120V)
POWER & CONTROL
1 PHASE MOTORS
+CAB1
Desing by:
YANN CHARBONNEAU
Customer:
KRESCO
Drawing Number:
KRESCO 59508-2
Date:
2021-08-02
Rev. Date:
2026-05-26
Page:
2 / 5


OPTION NEON
OPTION FOOT PEDAL
OPTION ROTARY BASKET
CAB2
CAB3
BJ1
-LUM303
-LUM305
2SLSTP2040DD120V
-PBL303 ON/OFF
-J303
ROTARY BASKET (318)
-PC309
FOOT SWITCH
-SOV313
-FU309-2
-FU309-1
-R312
=FOOT PEDAL +CAB2 -PS309
-TB24VDC
-TB0VDC
-TB2
-TBN
-TBGRND
-TB120
-TB1
-TB3
=ROTARY BASKET +CAB3 -SW318
=ROTARY BASKET +CAB3 -T315
+FIELD -H318
+FIELD -SOV320
+CAB1 -J203
(GREEN/YELLOW)
(WHITE)
(BLACK)
(RED)
120V
GRND
ROTARY BASKET
(305)
KRESCO
1404 Av. de la Gare
Mascouche, QC J7K 2Z2
1-877-757-3726
CAB (PB MONO PHASE 120V)
POWER & CONTROL
CONTROL OPTION
Desing by: YANN CHARBONNEAU
Customer: KRESCO
Drawing Number: KRESCO 59508-2
Date: 2023-12-21
Rev. Date: 2025-06-06
Page: 3 / 5

PARTS LIST

Fonction	Location	Reference	MFG P/N	Technical description	Manufacturer
	+BJ1	-J303	RDMC20AR	NYLON CORD GRIP M TYP2 M20*1.5 0.35	ELEC DIRECT
	+BJ1	-J303	RDMC20AA	NYLON CORD GRIP M TYPE M20*1.5 0.47	ELEC DIRECT
	+BJ1	-J303	YM2A14-UB3XLEAX	MALE CONNECTOR, M12, 4-PIN, STRAIGHT, A-CODED	SICK
	+BJ1	-J303	YF2A14-UB3XLEAX	FEMALE CONNECTOR, M12, 4-PIN, STRAIGHT, A-CODED	SICK
	+BJ1	-LUM303	2SLSTP2040DD120V	2" LINEAR LED STRIPLIGHT, 120V 0.19A 23W	METALUX
	+BJ1	-LUM305	2SLSTP2040DD120V	2" LINEAR LED STRIPLIGHT, 120V 0.19A 23W	METALUX
	+BJ1	-PBL303	GCX3192-120L	PUSHBUTTON, IP65, 22MM, PUSH ON - PUSH OFF, LED ILLUMINATED	AUTOMATION DIRECT
	+BJ1	-TB1	1020100000	WDU4 WPE SERIES TERMINAL BLOCK SUITABLE FOR SIZE 26 TO 10 AWG OPERATE 130C, 600V 35A	WEIDMULLER
	+BJ1	-TB120	1020100000	WDU4 WPE SERIES TERMINAL BLOCK SUITABLE FOR SIZE 26 TO 10 AWG OPERATE 130C, 600V 35A	WEIDMULLER
	+BJ1	-TBGRND	1010100000	WDU4 WPE SERIES TERMINAL BLOCK SUITABLE FOR SIZE 16 TO 6 AWG OPERATE 130C	WEIDMULLER
	+BJ1	-TBN	1020100000	WDU4 WPE SERIES TERMINAL BLOCK SUITABLE FOR SIZE 26 TO 10 AWG OPERATE 130C, 600V 35A	WEIDMULLER
	+CAB1	-C207	LC1D18G7	CONTACTOR, 3P 18A@ 600VAC, 120VAC, 1NO+1NC	SCHNEIDER ELECTRIC
	+CAB1	-ENC206	SJOOW	14/3 AWG, 105C	GENERAL CABLE
	+CAB1	-ENC206	MTW CABLE	8-14AWG TYPE TEW CABLE 105C	GENERAL CABLE
	+CAB1	-ENC206	5412ESCH141206	ENCLOSURE 14X12X06 INCH, NEMA 4-12 JIC ENCLOSURE WITH LOCK	EXM
	+CAB1	-ENC206	5231	STRAIN RELIEF 3/8	ABB
	+CAB1	-FU206	WSI SERIES 6/2 GZ	FUSE HOLDER 1/4 DIA. * 1-1/4, DIN TS35	WEIDMULLER
	+CAB1	-FU206	MDA-5R	GLASS FUSE 1/4*1 1/4, 250V 5A	BUSSMAN
	+CAB1	-FU210	AGC2	GLASS FUSE 2 AMP 1/4 * 1-1/4 2 AMP	FERRAZ SHAWMUT
	+CAB1	-FU210	WSI SERIES 6/2 GZ	FUSE HOLDER 1/4 DIA. * 1-1/4, DIN TS35	WEIDMULLER
	+CAB1	-GRND	1010100000	WDU4 WPE SERIES TERMINAL BLOCK SUITABLE FOR SIZE 16 TO 6 AWG OPERATE 130C	WEIDMULLER
	+CAB1	-GRND	1050100000-	WDU4 WPE SERIES TERMINAL PLATE END BLOCK BRACKET DINTS35	WEIDMULLER
	+CAB1	-J203	RDMC20AR	NYLON CORD GRIP M TYP2 M20*1.5 0.35	ELEC DIRECT
	+CAB1	-J203	YF2A14-UB3XLEAX	FEMALE CONNECTOR, M12, 4-PIN, STRAIGHT, A-CODED	SICK
	+CAB1	-J203	RDMC20AA	NYLON CORD GRIP M TYPE M20*1.5 0.47	ELEC DIRECT
	+CAB1	-J203	YM2A14-UB3XLEAX	MALE CONNECTOR, M12, 4-PIN, STRAIGHT, A-CODED	SICK
	+CAB1	-PS210	DRC30US24	POWER SUPPLY 120V/24V 36W DIN RAIL, INPUT 85 TO 264VAC OUTPUT 24V 1.5AMP	XP POWER
	+CAB1	-TB0	1020100000	WDU4 WPE SERIES TERMINAL BLOCK SUITABLE FOR SIZE 26 TO 10 AWG OPERATE 130C, 600V 35A	WEIDMULLER
	+CAB1	-TB24	1020100000	WDU4 WPE SERIES TERMINAL BLOCK SUITABLE FOR SIZE 26 TO 10 AWG OPERATE 130C, 600V 35A	WEIDMULLER
	+CAB1	-TBL	1020100000	WDU4 WPE SERIES TERMINAL BLOCK SUITABLE FOR SIZE 26 TO 10 AWG OPERATE 130C, 600V 35A	WEIDMULLER
	+CAB1	-TBN	1020100000	WDU4 WPE SERIES TERMINAL BLOCK SUITABLE FOR SIZE 26 TO 10 AWG OPERATE 130C, 600V 35A	WEIDMULLER
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=FOOT PEDAL	+CAB2	-ENC212	5412ESCH100804	ENCLOSURE 10X08X04 INCH, NEMA 4-12 JIC ENCLOSURE WITH LOCK	EXM
=FOOT PEDAL	+CAB2	-ENC212	RDMC20AR	NYLON CORD GRIP M TYP2 M20*1.5 0.35	ELEC DIRECT
=FOOT PEDAL	+CAB2	-FU309-1	WSI SERIES 6/2 GZ	FUSE HOLDER 1/4 DIA. * 1-1/4, DIN TS35	WEIDMULLER
=FOOT PEDAL	+CAB2	-FU309-1	AGC1	GLASS FUSE 1 AMP 1/4 * 1-1/4 1 AMP, 250V 1A	FERRAZ SHAWMUT
=FOOT PEDAL	+CAB2	-FU309-2	MDA-2R	GLASS FUSE 2AMP 1/4 * 1-1/4, 250V 2A	BUSSMAN
=FOOT PEDAL	+CAB2	-FU309-2	WSI SERIES 6/2 GZ	FUSE HOLDER 1/4 DIA. * 1-1/4, DIN TS35	WEIDMULLER
=FOOT PEDAL	+CAB2	-PC309	YG2A14-UB3XLEAX	FEMALE CONNECTOR M12 4-PIN ELBOW A-CODED, 300V 4A	SICK
=FOOT PEDAL	+CAB2	-PC309	GX3-AP-1E	GX SERIES M18 PHOTOCELL, 10-30V 200MA	AUTOMATION DIRECT
=FOOT PEDAL	+CAB2	-PS309	DRC30US24	POWER SUPPLY 120V/24V 36W DIN RAIL, INPUT 85 TO 264VAC OUTPUT 24V 1.5AMP	XP POWER

PARTS LIST

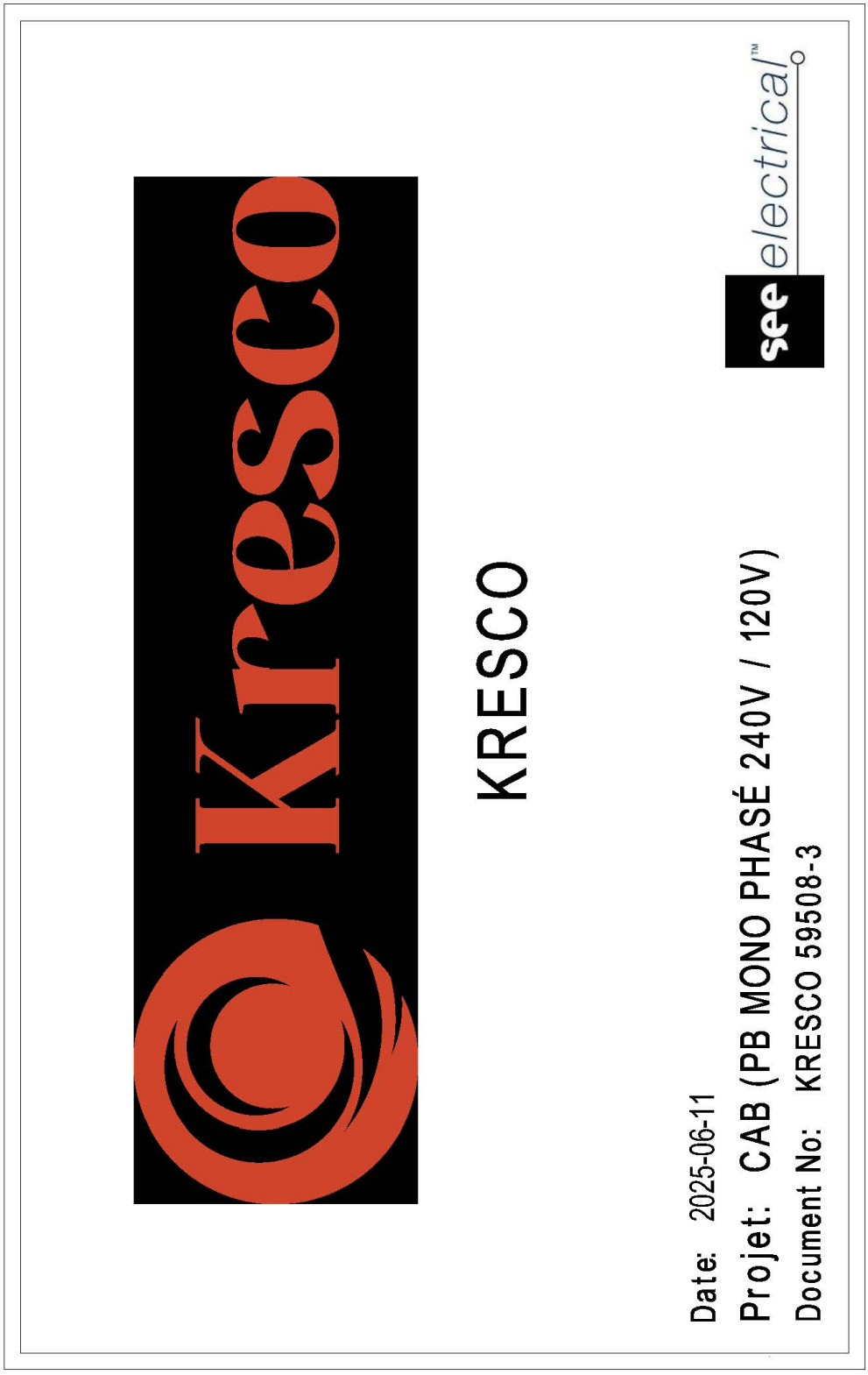
Fonction	Location	Reference	MFG P/N	Technical description	Manufacturer
=FOOT PEDAL	+CAB2	-R312	1SVR405651R3000	RELAY BASE DIN RAIL 14 PINS, 250V 7AMP	ABB
=FOOT PEDAL	+CAB2	-R312	55-34-9-0-024-0040	RELAY 4PDT 7A 24VDC, 400V 10A	FINDER
=FOOT PEDAL	+CAB2	-SOV313	VP342-3DZ02NA	ELECTRICAL SOLENOID 120V 3/2 1/4 NPT, 110V 1.55W	SMC
=FOOT PEDAL	+CAB2	-TB0VDC	1020100000	WDU4 WPE SERIES TERMINAL BLOCK SUITABLE FOR SIZE 26 TO 10 AWG OPERATE 130C, 600V 35A	WEIDMULLER
=FOOT PEDAL	+CAB2	-TB2	1020100000	WDU4 WPE SERIES TERMINAL BLOCK SUITABLE FOR SIZE 26 TO 10 AWG OPERATE 130C, 600V 35A	WEIDMULLER
=FOOT PEDAL	+CAB2	-TB24VDC	1020100000	WDU4 WPE SERIES TERMINAL BLOCK SUITABLE FOR SIZE 26 TO 10 AWG OPERATE 130C, 600V 35A	WEIDMULLER
=FOOT PEDAL	+CAB2	-TB120	1020100000	WDU4 WPE SERIES TERMINAL BLOCK SUITABLE FOR SIZE 26 TO 10 AWG OPERATE 130C, 600V 35A	WEIDMULLER
=FOOT PEDAL	+CAB2	-TBGRND	1010100000	WDU4 WPE SERIES TERMINAL BLOCK SUITABLE FOR SIZE 16 TO 6 AWG OPERATE 130C	WEIDMULLER
=FOOT PEDAL	+CAB2	-TBN	1020100000	WDU4 WPE SERIES TERMINAL BLOCK SUITABLE FOR SIZE 26 TO 10 AWG OPERATE 130C, 600V 35A	WEIDMULLER
=ROTARY BASKET	+CAB3	-ENC217	SJOOW	14/3 AWG, 105C	GENERAL CABLE
=ROTARY BASKET	+CAB3	-ENC217	RDMC20AR	NYLON CORD GRIP M TYP2 M20*1.5 0.35	ELEC DIRECT
=ROTARY BASKET	+CAB3	-ENC217	5412ESCH060604	ENCLOSURE 06X06X04 INCH, NEMA 4-12 JIC ENCLOSURE WITH LOCK	EXM
=ROTARY BASKET	+CAB3	-ENC217	FF15MC	TYPE SPST COUNTDOWN TIMER, 15 MIN MAX	IDEC
=ROTARY BASKET	+CAB3	-ENC217	RDMC20AA	NYLON CORD GRIP M TYPE M20*1.5 0.47	ELEC DIRECT
=ROTARY BASKET	+CAB3	-SW318	SM-2C-40	PRESSURE SWITCH 40PSI SPDT	NASON
=ROTARY BASKET	+CAB3	-TB3	1020100000	WDU4 WPE SERIES TERMINAL BLOCK SUITABLE FOR SIZE 26 TO 10 AWG OPERATE 130C, 600V 35A	WEIDMULLER
=ROTARY BASKET	+CAB3	-TB120	1020100000	WDU4 WPE SERIES TERMINAL BLOCK SUITABLE FOR SIZE 26 TO 10 AWG OPERATE 130C, 600V 35A	WEIDMULLER
=ROTARY BASKET	+CAB3	-TBGRND	1010100000	WDU4 WPE SERIES TERMINAL BLOCK SUITABLE FOR SIZE 16 TO 6 AWG OPERATE 130C	WEIDMULLER
=ROTARY BASKET	+CAB3	-TBN	1020100000	WDU4 WPE SERIES TERMINAL BLOCK SUITABLE FOR SIZE 26 TO 10 AWG OPERATE 130C, 600V 35A	WEIDMULLER
=ROTARY BASKET	+FIELD	-M318	0449 (34R4BF-Z4)	PARALLEL SHAFT AC GEARMOTOR, 9.4RPM, 1/15HP RUN CAPACITOR 49491054 UL FILE E44529, 115V 1AMP	J.R.P
	+FIELD	-MTR217			
	+FIELD	-PLS215	SXC-X8A1-10	PULSING SYSTEM 1-10 OUTPUT 24V	XIE CHANG
	+FIELD	-SOV214	DCF-ZM-25	PULSING VALVE 1PO NPT 24VDC	XIE CHANG
	+FIELD	-SOV215	DCF-ZM-25	PULSING VALVE 1PO NPT 24VDC	XIE CHANG
=ROTARY BASKET	+FIELD	-SOV320	VP342-3DZ1-02NA	1/4 SOLENOID, OPERATED PRESSURE: 3 TO 150 PSI	SMC

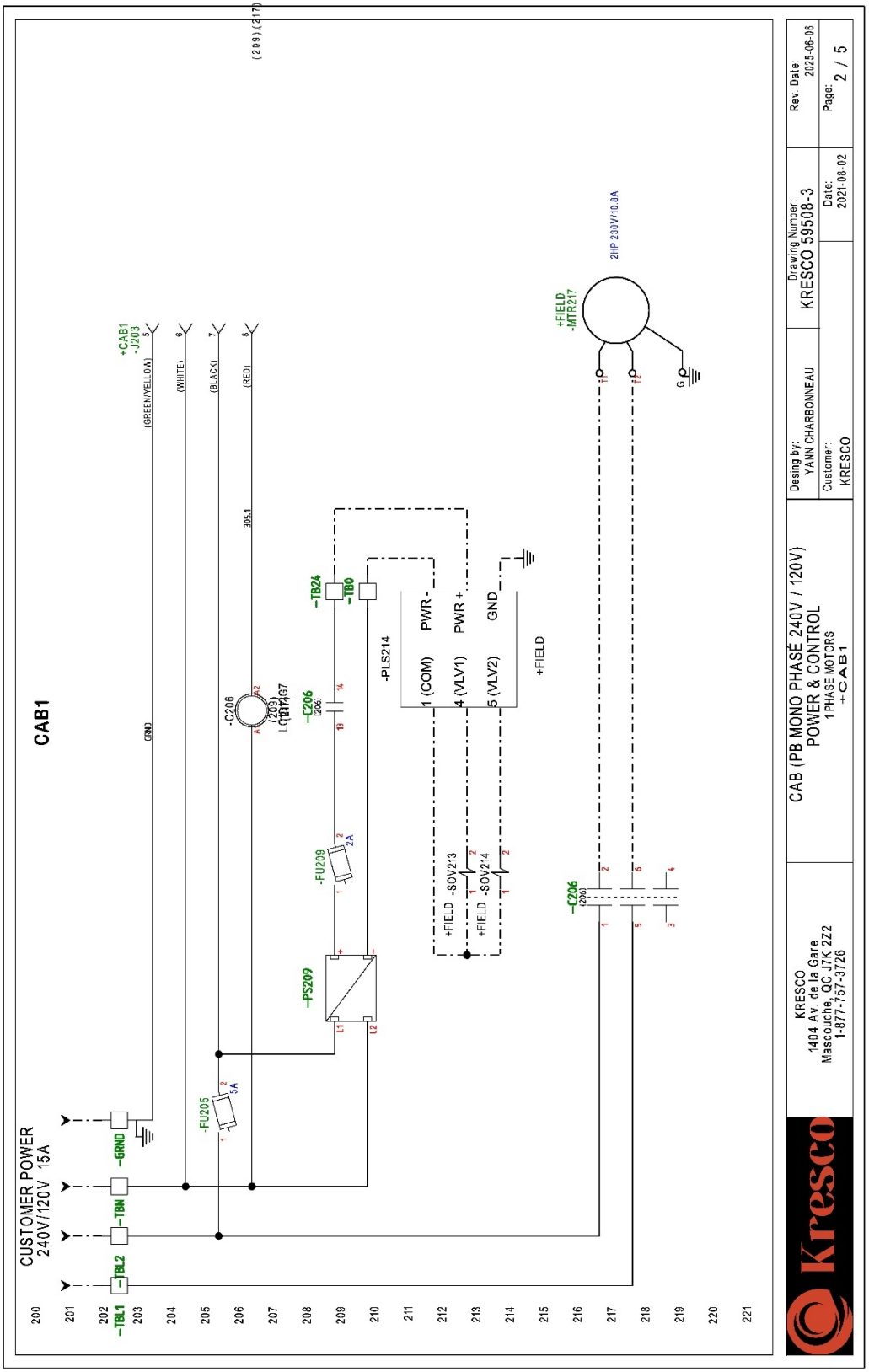
KRESCO
1404 Av. de la Gare
Mascouche, QC J7K 2Z2
1-877-757-3726

CAB (PB MONO PHASÉ 120V)

Clients:	No de Dessin.:	Rév.:	Page Rév. Date:
KRESCO	KRESCO 59508-2		2025-06-06
Dessiné Par.:	Date:		Page:
	2025-06-06		5 / 5

240V-1PH (CDC900)

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CUSTOMER POWER
240V/120V 15A
-TBL1
-TBL2
-TBN
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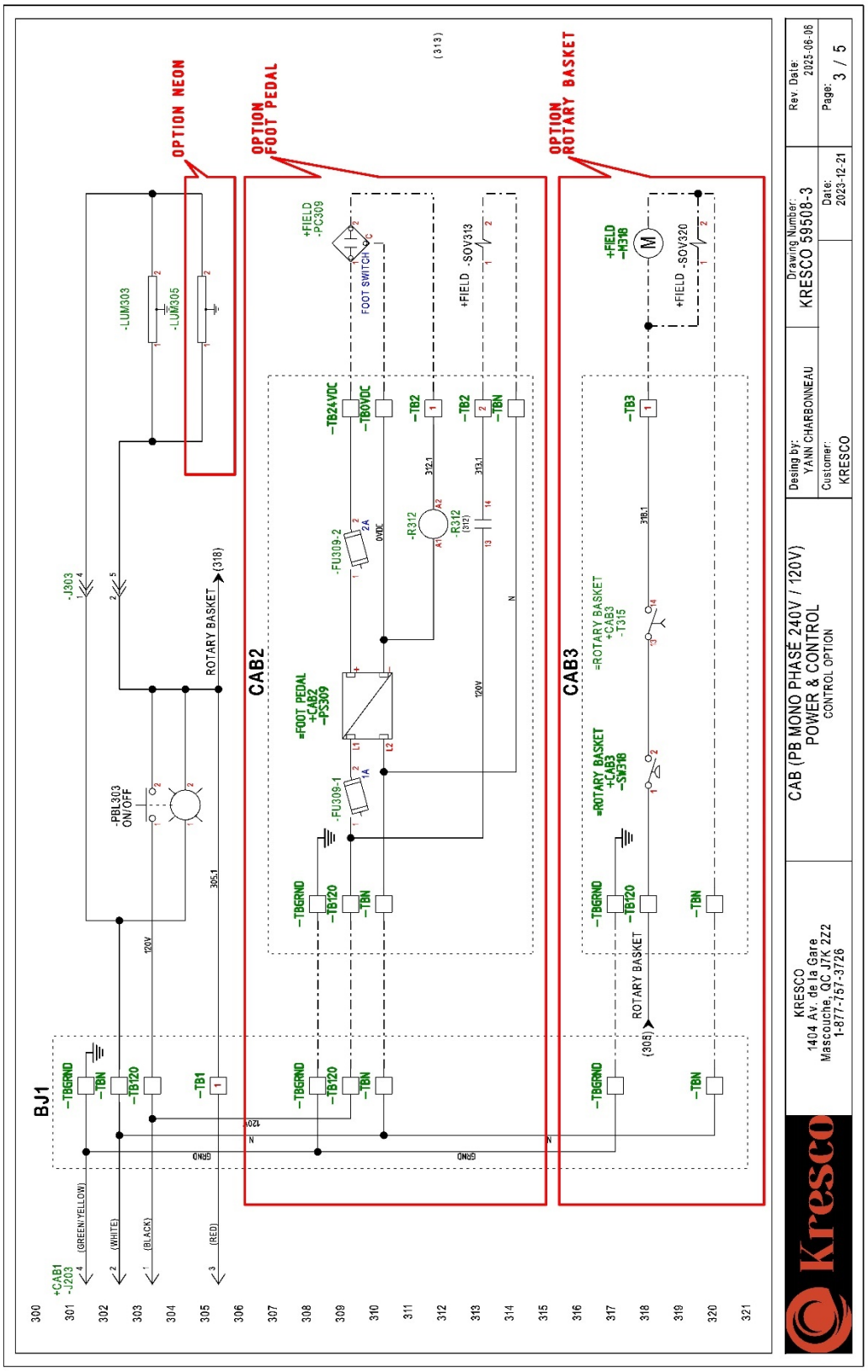
-FU205
5A
-PS209
-FU209
2A
-C206
(206)
-TB24
-TB0
-PLS214
1 (COM) PWR -
4 (VLV1) PWR +
5 (VLV2) GND
+FIELD
+FIELD -SOV213
+FIELD -SOV214
+CAB1 -J203
(GREEN/YELLOW)
(WHITE)
(BLACK)
(RED)
GRND
305,1
(209),(217)
+FIELD -MTR217
2HP 230V/10.8A
KRESCO
1404 Av. de la Gare
Mascouche, QC J7K 2Z2
1-877-757-3726
CAB (PB MONO PHASE 240V / 120V)
POWER & CONTROL
1 PHASE MOTORS
+CAB1
Desing by:
YANN CHARBONNEAU
Customer:
KRESCO
Drawing Number:
KRESCO 59508-3
Date:
2021-08-02
Rev. Date:
2025-06-06
Page:
2 / 5


OPTION NEON
OPTION FOOT PEDAL
OPTION ROTARY BASKET
CAB2
CAB3
BJ1
ROTARY BASKET
FOOT SWITCH
-PBL303 ON/OFF
-LUM303
-LUM305
-J303
+CAB1 -J203
(GREEN/YELLOW)
(WHITE)
(BLACK)
(RED)
-TBGRND
-TBN
-TB120
-TB1
-TB24VDC
-TB0VDC
-TB2
-TB3
+FIELD -PC309
+FIELD -SOV313
+FIELD -SOV320
+FIELD -M318
-FU309-1
-FU309-2
-R312
=FOOT PEDAL +CAB2 -PS309
=ROTARY BASKET +CAB3 -SW318
=ROTARY BASKET +CAB3 -TS15
KRESCO
1404 Av. de la Gare
Mascouche, QC J7K 2Z2
1-877-757-3726
CAB (PB MONO PHASE 240V / 120V)
POWER & CONTROL
CONTROL OPTION
Desing by: YANN CHARBONNEAU
Customer: KRESCO
Drawing Number: KRESCO 59508-3
Date: 2023-12-21
Rev. Date: 2025-06-06
Page: 3 / 5

PARTS LIST

Fonction	Location	Reference	MFG P/N	Technical description	Manufacturer
	+BJ1	-J303	RDMC20AA	NYLON CORD GRIP M TYPE M20*1.5 0.47, HEAT RESIST -40 TO 100	ELEC DIRECT
	+BJ1	-J303	RDMC20AR	NYLON CORD GRIP M TYP2 M20*1.5 0.35, HEAT RESIST -40 TO 101	ELEC DIRECT
	+BJ1	-J303	YM2A14-UB3XLEAX	MALE CONNECTOR, M12, 4-PIN, STRAIGHT, A-CODED, 300V 4A	SICK
	+BJ1	-J303	YF2A14-UB3XLEAX	FEMALE CONNECTOR, M12, 4-PIN, STRAIGHT, A-CODED, 300V 4A	SICK
	+BJ1	-LUM303	2SLSTP2040DD120V		
	+BJ1	-LUM305	2SLSTP2040DD120V		
	+BJ1	-PBL303	GCX3192-120L	22mm plastic LED illuminated pushbutton, 120 VDC/VAC. One N.O. contact block.	AUTOMATION DIRECT
	+BJ1	-TB1	1020100000	TERMINAL BLOCK WDU4	WEIDMULLER
	+BJ1	-TB120	1020100000	TERMINAL BLOCK WDU4	WEIDMULLER
	+BJ1	-TBGRND	1010100000	WDU4 WPE SERIES TERMINAL BLOCK SUITABLE FOR SIZE 16 TO 6 AWG OPERATE 130C, 600V 16A	WEIDMULLER
	+BJ1	-TBN	1020100000	TERMINAL BLOCK WDU4	WEIDMULLER
	+CAB 1	-TB0	1020100000	TERMINAL BLOCK WDU4	WEIDMULLER
	+CAB 1	-TB24	1020100000	TERMINAL BLOCK WDU4	WEIDMULLER
	+CAB1	-C206	LC1D12G7	CONTACTOR 12A 120V 1NO+1NC	SCHNEIDER ELECTRIC
	+CAB1	-ENC204	5231	STRAIN RELIEF 3/8, STRAIN RELIEF 1000V CLASS 1 DIV 2	ABB
	+CAB1	-ENC204	SJOOW	14/3 AWG, 105C, 300V	GENERAL CABLE
	+CAB1	-ENC204	5412ESCH141206	ENCLOSURE 14X12X06 INCH, NEMA 4-12 JIC ENCLOSURE WITH LOCK	EXM
	+CAB1	-ENC204	MTW CABLE	8-14AWG TYPE TEW CABLE 105C, 600V	GENERAL CABLE
	+CAB1	-FU205	MDA-5R	GLASS FUSE 1/4*1 1/4, 250V 5A	BUSSMAN
	+CAB1	-FU205	WSI SERIES 6/2 GZ	FUSE HOLDER 1/4 DIA. * 1-1/4, DIN TS35	WEIDMULLER
	+CAB1	-FU209	AGC2	GLASS FUSE 2 AMP	FERRAZ
	+CAB1	-FU209	WSI SERIES 6/2 GZ	FUSE HOLDER 1/4 DIA. * 1-1/4, DIN TS35	WEIDMULLER
	+CAB1	-GRND	1050100000-	WDU4 WPE SERIES TERMINAL PLATE END BLOCK BRACKET DINTS35, 600V 16A	WEIDMULLER
	+CAB1	-GRND	1010100000	WDU4 WPE SERIES TERMINAL BLOCK SUITABLE FOR SIZE 16 TO 6 AWG OPERATE 130C, 600V 16A	WEIDMULLER
	+CAB1	-J203	RDMC20AA	NYLON CORD GRIP M TYPE M20*1.5 0.47, HEAT RESIST -40 TO 100	ELEC DIRECT
	+CAB1	-J203	RDMC20AR	NYLON CORD GRIP M TYP2 M20*1.5 0.35, HEAT RESIST -40 TO 101	ELEC DIRECT
	+CAB1	-J203	YF2A14-UB3XLEAX	FEMALE CONNECTOR, M12, 4-PIN, STRAIGHT, A-CODED, 300V 4A	SICK
	+CAB1	-J203	YM2A14-UB3XLEAX	MALE CONNECTOR, M12, 4-PIN, STRAIGHT, A-CODED, 300V 4A	SICK
	+CAB1	-PS209	DRC30US24	POWER SUPPLY 120V/24V 36W DIN RAIL, INPUT 85 TO 264VAC OUTPUT 24V 1.5AMP	XP POWER
	+CAB1	-TBL1	1020100000	TERMINAL BLOCK WDU4	WEIDMULLER
	+CAB1	-TBL2	1020100000	TERMINAL BLOCK WDU4	WEIDMULLER
	+CAB1	-TBN	1020100000	TERMINAL BLOCK WDU4	WEIDMULLER
=FOOT PEDAL	+CAB2	-ENC212	5231	STRAIN RELIEF 3/8, STRAIN RELIEF 1000V CLASS 1 DIV 2	ABB
=FOOT PEDAL	+CAB2	-ENC212	RDMC20AA	NYLON CORD GRIP M TYPE M20*1.5 0.47, HEAT RESIST -40 TO 100	ELEC DIRECT
=FOOT PEDAL	+CAB2	-ENC212	RDMC20AR	NYLON CORD GRIP M TYP2 M20*1.5 0.35, HEAT RESIST -40 TO 101	ELEC DIRECT
=FOOT PEDAL	+CAB2	-ENC212	5412ESCH100804	ENCLOSURE 10X08X04 INCH, NEMA 4-12 JIC ENCLOSURE WITH LOCK	EXM
=FOOT PEDAL	+CAB2	-FU309-1	AGC1	GLASS FUSE 1 AMP	FERRAZ
=FOOT PEDAL	+CAB2	-FU309-1	WSI SERIES 6/2 GZ	FUSE HOLDER 1/4 DIA. * 1-1/4, DIN TS35	WEIDMULLER
=FOOT PEDAL	+CAB2	-FU309-2	MDA-2R	GLASS FUSE 2AMP 1/4 * 1-1/4, 250V 2A	BUSSMAN
=FOOT PEDAL	+CAB2	-FU309-2	WSI SERIES 6/2 GZ	FUSE HOLDER 1/4 DIA. * 1-1/4, DIN TS35	WEIDMULLER
=FOOT PEDAL	+CAB2	-PS309	DRC30US24	POWER SUPPLY 120V/24V 36W DIN RAIL, INPUT 85 TO 264VAC OUTPUT 24V 1.5AMP	XP POWER
=FOOT PEDAL	+CAB2	-R312	1SVR405651R3000	RELAY BASE DIN RAIL 14 PINS, 250V 7AMP	ABB

PARTS LIST

Fonction	Location	Reference	MFG P/N	Technical description	Manufacturer
=FOOT PEDAL	+CAB2	-R312	55-34-9-0-024-0040	RELAY 4PDT 7A 24VDC, 400V 10A	FINDER
=FOOT PEDAL	+CAB2	-TB0VDC	1020100000	TERMINAL BLOCK WDU4	WEIDMULLER
=FOOT PEDAL	+CAB2	-TB2	1020100000	TERMINAL BLOCK WDU4	WEIDMULLER
=FOOT PEDAL	+CAB2	-TB24VDC	1020100000	TERMINAL BLOCK WDU4	WEIDMULLER
=FOOT PEDAL	+CAB2	-TB120	1020100000	TERMINAL BLOCK WDU4	WEIDMULLER
=FOOT PEDAL	+CAB2	-TBGRND	1010100000	WDU4 WPE SERIES TERMINAL BLOCK SUITABLE FOR SIZE 16 TO 6 AWG OPERATE 130C, 600V 16A	WEIDMULLER
=FOOT PEDAL	+CAB2	-TBN	1020100000	TERMINAL BLOCK WDU4	WEIDMULLER
=ROTARY BASKET	+CAB3	-ENC217	RDMC20AR	NYLON CORD GRIP M TYP2 M20*1.5 0.35, HEAT RESIST -40 TO 101	ELEC DIRECT
=ROTARY BASKET	+CAB3	-ENC217	SJCOW	14/3 AWG, 105C, 300V	GENERAL CABLE
=ROTARY BASKET	+CAB3	-ENC217	RDMC20AA	NYLON CORD GRIP M TYPE M20*1.5 0.47, HEAT RESIST -40 TO 100	ELEC DIRECT
=ROTARY BASKET	+CAB3	-ENC217	FF15MC	15 MINUTE TIMER	INTERMATIC
=ROTARY BASKET	+CAB3	-ENC217	5412ESCH060604	ENCLOSURE 06X06X04 INCH, NEMA 4-12 JIC ENCLOSURE WITH LOCK	EXM
=ROTARY BASKET	+CAB3	-SW318	SM-2C-40	PRESSURE SWITCH 40PSI SPDT	NASON
=ROTARY BASKET	+CAB3	-TB3	1020100000	TERMINAL BLOCK WDU4	WEIDMULLER
=ROTARY BASKET	+CAB3	-TB120	1020100000	TERMINAL BLOCK WDU4	WEIDMULLER
=ROTARY BASKET	+CAB3	-TBGRND	1010100000	WDU4 WPE SERIES TERMINAL BLOCK SUITABLE FOR SIZE 16 TO 6 AWG OPERATE 130C, 600V 16A	WEIDMULLER
=ROTARY BASKET	+CAB3	-TBN	1020100000	TERMINAL BLOCK WDU4	WEIDMULLER
=ROTARY BASKET	+FIELD	-M318	0449 (34R4BF-Z4)	REDUCTOR MOTOR 1/15HP 115V 180/1 RATIO	BODINE
	+FIELD	-MTR217			
=FOOT PEDAL	+FIELD	-PC309	YG2A14-UB3XLEAX	FEMALE CONNECTOR M12 4-PIN ELBOW A-CODED, 300V 4A	SICK
=FOOT PEDAL	+FIELD	-PC309	GX3-AP-1E	PHOTOELECTRIC SENSOR PNP UP TO 100MM	AUTOMATION DIRECT
	+FIELD	-PLS214	SXC-X8A1-10	PULSING SYSTEM 1-10 OUTPUT 24V	XIE CHANG
	+FIELD	-SOV213	DCF-ZM-25	PULSING VALVE 1PO NPT 24VDC	XIE CHANG
	+FIELD	-SOV214	DCF-ZM-25	PULSING VALVE 1PO NPT 24VDC	XIE CHANG
=FOOT PEDAL	+FIELD	-SOV313	VP342-3DZ02NA	ELECTRICAL SOLENOID 120V 3/2 1/4 NPT, 110V 1.55W	SMC
=ROTARY BASKET	+FIELD	-SOV320	VP342-3DZ1-02NA	1/4 SOLENOID, OPERATED PRESSURE: 3 TO 150 PSI	SMC

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CAB (PB MONO PHASÉ 240V / 120V)

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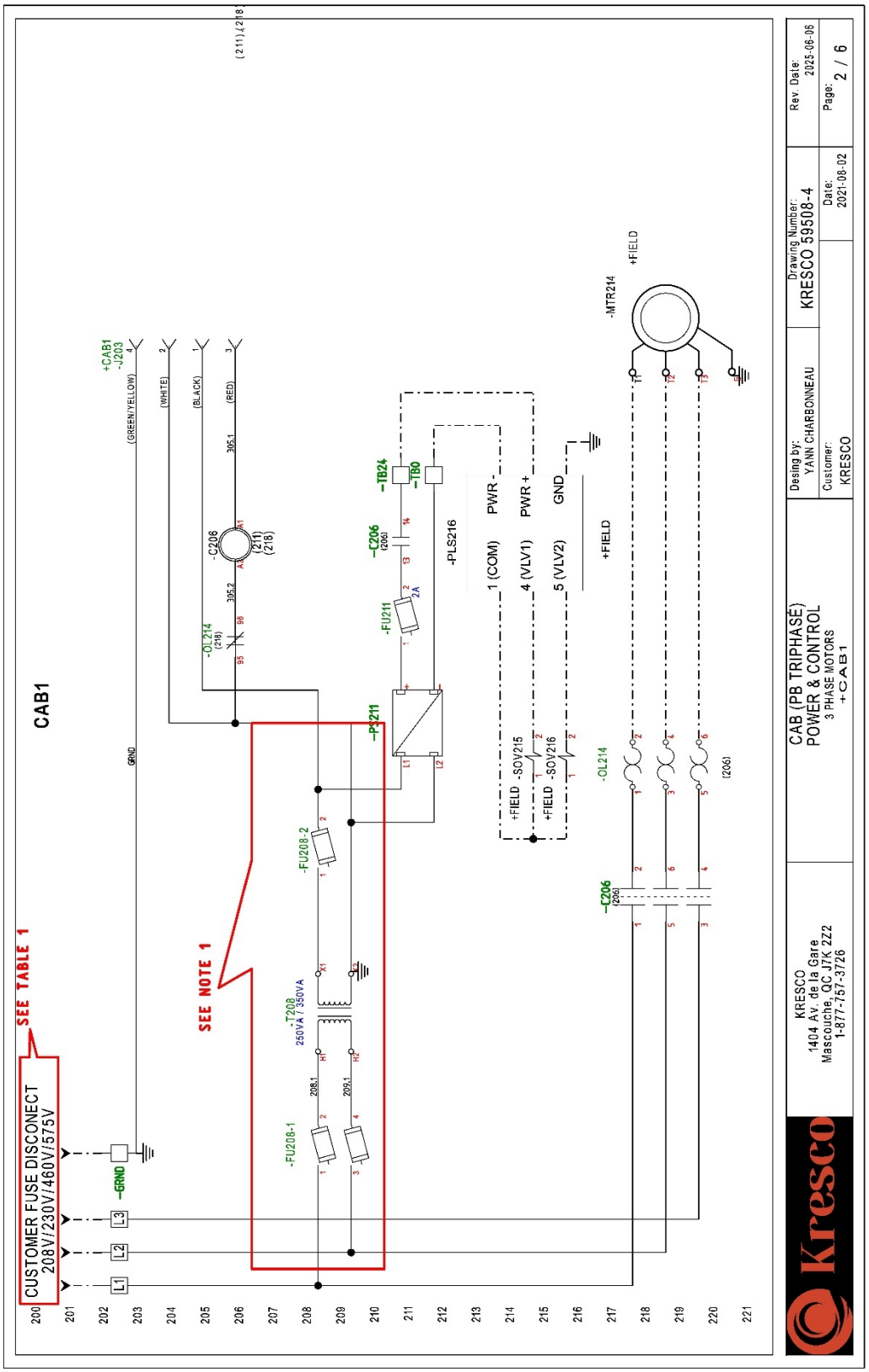
208V/230V/460V/575V-3PH (CDC900, CDC1200 and CDC1800)


CAB1
SEE TABLE 1
CUSTOMER FUSE DISCONECT
208V/230V/460V/575V
SEE NOTE 1
-GRND
L1
L2
L3
+CAB1
-J203
(GREEN/YELLOW)
(WHITE)
(BLACK)
(RED)
-C206
-OL214
-FU208-1
-FU208-2
-T208
250VA / 350VA
-PS211
-FU211
-TB24
-TB0
-C206
-PLS216
1 (COM)
4 (VLV1)
5 (VLV2)
PWR -
PWR +
GND
+FIELD
+FIELD -SOV215
+FIELD -SOV216
-OL214
-C206
-MTR214
+FIELD
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CAB (PB TRIPHASE)
POWER & CONTROL
3 PHASE MOTORS
+CAB1
Desing by:
YANN CHARBONNEAU
Customer:
KRESCO
Drawing Number:
KRESCO 59508-4
Date:
2021-08-02
Rev. Date:
2025-06-06
Page:
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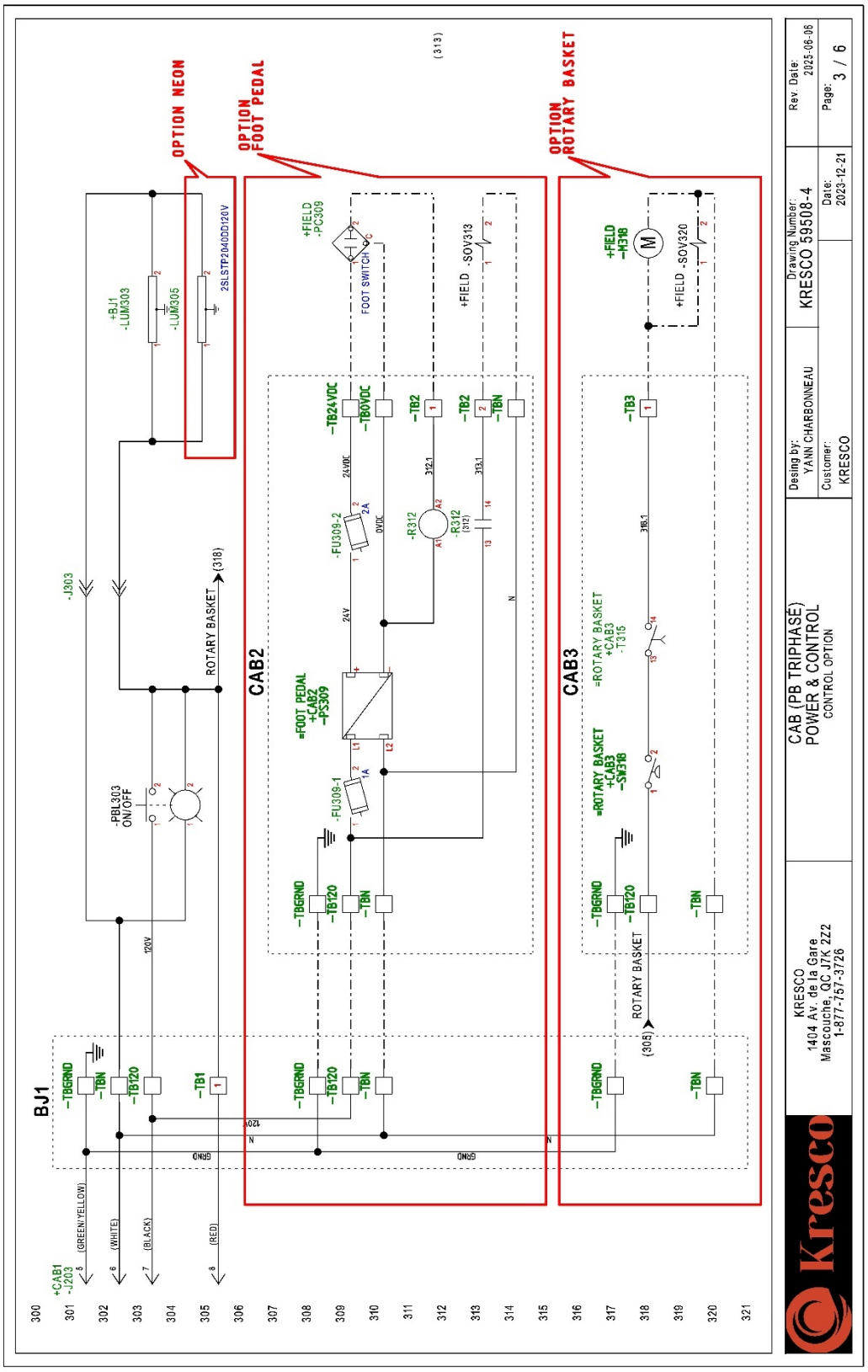
OPTION NEON
OPTION FOOT PEDAL
OPTION ROTARY BASKET
CAB2
CAB3
BJ1
ROTARY BASKET
FOOT SWITCH
CAB (PB TRIPHASE)
POWER & CONTROL
CONTROL OPTION
KRESCO
1404 Av. de la Gare
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1-877-757-3726
Desing by: YANN CHARBONNEAU
Customer: KRESCO
Drawing Number: KRESCO 59508-4
Date: 2023-12-21
Rev. Date: 2025-06-06
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TABLE-1

MOTOR RATINGS VOLTS INPUT , STARTER , OVERLOAD AND CONTOL TRANSFORMER SELECTION

CHOICE	POWER	VOLTS	AMPS	PHASES	HERTZ	RPM	PARTS NO MOTOR	MAKER	STARTER	OVERLOAD	CHOICE	WITHOUT ROTATING BASKET TRANSFO VOLTAGE PRIMARY/SECONDARY/VA	PARTS NO TRANSFO	CHOICE	WITH ROTATING BASKET TRANSFO VOLTAGE PRIMARY/SECONDARY/VA	PARTS NO TRANSFO	CUSTOMER POWER SUPPLY FUSE TYPE & CAPACITY
	2HP	208V	6A	3	60	3600	YSN5642A-2X4	JRP	LC1D09G7	LRD14L		240V/120V 250VA	MTC250-25		240V/120V 350VA	MTC350-25	AJT10 OR CRS10
	3HP	208V	8.1A	3	60	3600	NEP182TC2-2X4	NORDIC	LC1D12G7	LRD16L		240V/120V 250VA	MTC250-25		240V/120V 350VA	MTC350-25	AJT15 OR CRS15
	5HP	208V	13.3A	3	60	3600	NEP184TC2-2X4	NORDIC	LC1D18G7	LRD21L		240V/120V 250VA	MTC250-25		240V/120V 350VA	MTC350-25	AJT20 OR CRS20
	7.5HP	208V	19.5A	3	60	3600	NEP213TC2-2X4	NORDIC	LC1D25G7	LRD32L		240V/120V 250VA	MTC250-25		240V/120V 350VA	MTC350-25	AJT30 OR CRS30
	10HP	208V	23.8A	3	60	3600	NEP215TC2-2X4	NORDIC	LC1D32G7	LRD32L		240V/120V 250VA	MTC250-25		240V/120V 350VA	MTC350-25	AJT40 OR CRS40
	2HP	230V	5.4A	3	60	3600	YSN5642A-2X4	JRP	LC1D09G7	LRD12L		240V/120V 250VA	MTC250-25		240V/120V 350VA	MTC350-25	AJT10 OR CRS10
	3HP	230V	7.3A	3	60	3600	NEP182TC2-2X4	NORDIC	LC1D12G7	LRD16L		240V/120V 250VA	MTC250-25		240V/120V 350VA	MTC350-25	AJT12 OR CRS10
	5HP	230V	12A	3	60	3600	NEP184TC2-2X4	NORDIC	LC1D18G7	LRD21L		240V/120V 250VA	MTC250-25		240V/120V 350VA	MTC350-25	AJT20 OR CRS20
	7.5HP	230V	17.6A	3	60	3600	NEP213TC2-2X4	NORDIC	LC1D25G7	LRD22L		240V/120V 250VA	MTC250-25		240V/120V 350VA	MTC350-25	AJT30 OR CRS30
	10HP	230V	23.3A	3	60	3600	NEP215TC2-2X4	NORDIC	LC1D32G7	LRD32L		240V/120V 250VA	MTC250-25		240V/120V 350VA	MTC350-25	AJT40 OR CRS40
	2HP	460V	2.7A	3	60	3600	YSN5642A-2X4	JRP	LC1D09G7	LRD08L		480V/120V 250VA	MTC250-36		480V/120V 350VA	MTC350-36	AJT5N OR CRS5
	3HP	460V	3.6A	3	60	3600	NEP182TC2-2X4	NORDIC	LC1D09G7	LRD10L		480V/120V 250VA	MTC250-36		480V/120V 350VA	MTC350-36	AJT7N OR CRS5
	5HP	460V	6.1A	3	60	3600	NEP184TC2-2X4	NORDIC	LC1D09G7	LRD14L		480V/120V 250VA	MTC250-36		480V/120V 350VA	MTC350-36	AJT10 OR CRS10
	7.5HP	460V	8.8A	3	60	3600	NEP213TC2-2X4	NORDIC	LC1D12G7	LRD16L		480V/120V 250VA	MTC250-36		480V/120V 350VA	MTC350-36	AJT15 OR CRS15
	10HP	460V	12A	3	60	3600	NEP215TC2-2X4	NORDIC	LC1D18G7	LRD21L		480V/120V 250VA	MTC250-36		480V/120V 350VA	MTC350-36	AJT20 OR CRS20
	2HP	575V	2.16A	3	60	3600	YSN5642G-575	JRP	LC1D09G7	LRD08L		600V/120V 250VA	MTC250-39		600V/120V 350VA	MTC350-39	AJT4N OR CRS4
	3HP	575V	2.9A	3	60	3600	NEP182TC2-575	NORDIC	LC1D09G7	LRD08L		600V/120V 250VA	MTC250-39		600V/120V 350VA	MTC350-39	AJT5N OR CRS5
	5HP	575V	4.8A	3	60	3600	NEP184TC2-575	NORDIC	LC1D09G7	LRD12L		600V/120V 250VA	MTC250-39		600V/120V 350VA	MTC350-39	AJT8 OR CRS8
	7.5HP	575V	7.1A	3	60	3600	NEP213TC2-575	NORDIC	LC1D09G7	LRD14L		600V/120V 250VA	MTC250-39		600V/120V 350VA	MTC350-39	AJT12 OR CRS10
	10HP	575V	9.3A	3	60	3600	NEP215TC2-575	NORDIC	LC1D12G7	LRD16L		600V/120V 250VA	MTC250-39		600V/120V 350VA	MTC350-39	AJT15 OR CRS15

NOTE 1 : CHOOSE THE TRANSFO WITH OR WITHOUT THE ROTARY BASKET OPTION

TABLE-2 FUSE SIZE FOR DIFFERENT TYPES OF PRIMARY/SECONDARY TRANSFO

TRANSFO 250VA				TRANSFO 350VA			
PRIMARY VOLTAGE	PRIMARY FUSE SIZE	SECONDARY VOLTAGE	SECONDARY FUSE SIZE	PRIMARY VOLTAGE	PRIMARY FUSE SIZE	SECONDARY VOLTAGE	SECONDARY FUSE SIZE
240	ATDR1	120	AGC2	240	ATDR1-1/2	120	AGC3
480	ATDR1/2	120	AGC2	480	ATDR1	120	AGC3
600	ATDR1/2	120	AGC2	600	ATDR1/2	120	AGC3

PARTS LIST

Fonction	Location	Reference	MFG P/N	Technical description	Manufacturer
	+BJ1	-J303	RDMC20AR	NYLON CORD GRIP M TYP2 M20*1.5 0.35	ELEC DIRECT
	+BJ1	-J303	YF2A14-UB3XLEAX	FEMALE CONNECTOR, M12, 4-PIN, STRAIGHT, A-CODED	SICK
	+BJ1	-J303	YM2A14-UB3XLEAX	MALE CONNECTOR, M12, 4-PIN, STRAIGHT, A-CODED	SICK
	+BJ1	-J303	RDMC20AA	NYLON CORD GRIP M TYPE M20*1.5 0.47	ELEC DIRECT
	+BJ1	-LUM303	2SLSTP2040DD120V	2" LINEAR LED STRIPLIGHT, 120V 0.19A 23W	METALUX
	+BJ1	-LUM305	2SLSTP2040DD120V	2" LINEAR LED STRIPLIGHT, 120V 0.19A 23W	METALUX
	+BJ1	-PBL303	GCX3192-120L	PUSHBUTTON, IP65, 22MM, PUSH ON - PUSH OFF, LED ILLUMINATED	AUTOMATION DIRECT
	+BJ1	-TB1	1020100000	WDU4 WPE SERIES TERMINAL BLOCK SUITABLE FOR SIZE 26 TO 10 AWG OPERATE 130C, 600V 35A	WEIDMULLER
	+BJ1	-TB120	1020100000	WDU4 WPE SERIES TERMINAL BLOCK SUITABLE FOR SIZE 26 TO 10 AWG OPERATE 130C, 600V 35A	WEIDMULLER
	+BJ1	-TBGRND	1010100000	WDU4 WPE SERIES TERMINAL BLOCK SUITABLE FOR SIZE 16 TO 6 AWG OPERATE 130C	WEIDMULLER
	+BJ1	-TBN	1020100000	WDU4 WPE SERIES TERMINAL BLOCK SUITABLE FOR SIZE 26 TO 10 AWG OPERATE 130C, 600V 35A	WEIDMULLER
	+CAB 1	-TB0	1020100000	WDU4 WPE SERIES TERMINAL BLOCK SUITABLE FOR SIZE 26 TO 10 AWG OPERATE 130C, 600V 35A	WEIDMULLER
	+CAB 1	-TB24	1020100000	WDU4 WPE SERIES TERMINAL BLOCK SUITABLE FOR SIZE 26 TO 10 AWG OPERATE 130C, 600V 35A	WEIDMULLER
	+CAB1	-C206			
	+CAB1	-ENC205	5231	STRAIN RELIEF 3/8	ABB
	+CAB1	-ENC205	5412ESCH141206	ENCLOSURE 14X12X06 INCH, NEMA 4-12 JIC ENCLOSURE WITH LOCK	EXM
	+CAB1	-ENC205	MTW CABLE	8-14AWG TYPE TEW CABLE 105C	GENERAL CABLE
	+CAB1	-ENC205	SJOOW	14/3 AWG, 105C	GENERAL CABLE
	+CAB1	-FU208-1	FNQ-R1.5	FUSE 10X38 1.5A 600V	EATON
	+CAB1	-FU208-1	ATDR-1	FUSE 10X38 1A 600V	MERSEN
	+CAB1	-FU208-1	WSI SERIES 25/2 10X38	FUSE HOLDER 2P 10X38, DINTS36	WEIDMULLER
	+CAB1	-FU208-1	FNQ-R1/2	FUSE 10X38 1/2A 600V	EATON
	+CAB1	-FU208-1	ATDR1-1/2	FUSE 10X38 1.5A 600V	MERSEN
	+CAB1	-FU208-1	ATDR1/2	FUSE 10X38 1/2A 600V	MERSEN
	+CAB1	-FU208-1	FNQ-R1	FUSE 10X38 1A 600V	EATON
	+CAB1	-FU208-2	AGC2	GLASS FUSE 2 AMP 1/4 * 1-1/4 2 AMP	FERRAZ SHAWMUT
	+CAB1	-FU208-2	AGC3	GLASS FUSE 1 AMP 1/4 * 1-1/4 3 AMP	FERRAZ SHAWMUT
	+CAB1	-FU208-2	WSI SERIES 6/2 GZ	FUSE HOLDER 1/4 DIA. * 1-1/4, DINTS35	WEIDMULLER
	+CAB1	-FU211	WSI SERIES 6/2 GZ	FUSE HOLDER 1/4 DIA. * 1-1/4, DINTS35	WEIDMULLER
	+CAB1	-FU211	AGC2	GLASS FUSE 2 AMP 1/4 * 1-1/4 2 AMP	FERRAZ SHAWMUT
	+CAB1	-GRND	1010100000	WDU4 WPE SERIES TERMINAL BLOCK SUITABLE FOR SIZE 16 TO 6 AWG OPERATE 130C	WEIDMULLER
	+CAB1	-GRND	1050100000-	WDU4 WPE SERIES TERMINAL PLATE END BLOCK BRACKET DINTS35	WEIDMULLER
	+CAB1	-J203	RDMC20AA	NYLON CORD GRIP M TYPE M20*1.5 0.47	ELEC DIRECT
	+CAB1	-J203	RDMC20AR	NYLON CORD GRIP M TYP2 M20*1.5 0.35	ELEC DIRECT
	+CAB1	-J203	YF2A14-UB3XLEAX	FEMALE CONNECTOR, M12, 4-PIN, STRAIGHT, A-CODED	SICK
	+CAB1	-J203	YM2A14-UB3XLEAX	MALE CONNECTOR, M12, 4-PIN, STRAIGHT, A-CODED	SICK
	+CAB1	-OL214			
	+CAB1	-PS211	DRC30US24	POWER SUPPLY 120V/24V 36W DIN RAIL, INPUT 85 TO 264VAC OUTPUT 24V 1.5AMP	XP POWER
	+CAB1	-T208			
	+CAB1	-TBL1	1020100000	WDU4 WPE SERIES TERMINAL BLOCK SUITABLE FOR SIZE 26 TO 10 AWG OPERATE 130C, 600V 35A	WEIDMULLER
	+CAB1	-TBL2	1020100000	WDU4 WPE SERIES TERMINAL BLOCK SUITABLE FOR SIZE 26 TO 10 AWG OPERATE 130C, 600V 35A	WEIDMULLER
	+CAB1	-TBL3	1020100000	WDU4 WPE SERIES TERMINAL BLOCK SUITABLE FOR SIZE 26 TO 10 AWG OPERATE 130C, 600V 35A	WEIDMULLER

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PARTS LIST

Fonction	Location	Reference	MFG P/N	Technical description	Manufacturer
=FOOT PEDAL	+CAB2	-ENC213	5231	STRAIN RELIEF 3/8	ABB
=FOOT PEDAL	+CAB2	-ENC213	RDMC20AR	NYLON CORD GRIP M TYP2 M20*1.5 0.35	ELEC DIRECT
=FOOT PEDAL	+CAB2	-ENC213	5412ESCH100804	ENCLOSURE 10X08X04 INCH, NEMA 4-12 JIC ENCLOSURE WITH LOCK	EXM
=FOOT PEDAL	+CAB2	-ENC213	RDMC20AA	NYLON CORD GRIP M TYPE M20*1.5 0.47	ELEC DIRECT
=FOOT PEDAL	+CAB2	-FU309-1	AGC1	GLASS FUSE 1 AMP 1/4 * 1-1/4 1 AMP, 250V 1A	FERRAZ SHAWMUT
=FOOT PEDAL	+CAB2	-FU309-1	WSI SERIES 6/2 GZ	FUSE HOLDER 1/4 DIA. * 1-1/4, DIN TS35	WEIDMULLER
=FOOT PEDAL	+CAB2	-FU309-2	MDA-2R	GLASS FUSE 2AMP 1/4 * 1-1/4, 250V 2A	BUSSMAN
=FOOT PEDAL	+CAB2	-FU309-2	WSI SERIES 6/2 GZ	FUSE HOLDER 1/4 DIA. * 1-1/4, DIN TS35	WEIDMULLER
=FOOT PEDAL	+CAB2	-PS309	DRC30US24	POWER SUPPLY 120V/24V 36W DIN RAIL, INPUT 85 TO 264VAC OUTPUT 24V 1.5AMP	XP POWER
=FOOT PEDAL	+CAB2	-R312	1SVR405651R3000	RELAY BASE DIN RAIL 14 PINS, 250V 7AMP	ABB
=FOOT PEDAL	+CAB2	-R312	55-34-9-0-024-0040	RELAY 4PDT 7A 24VDC, 400V 10A	FINDER
=FOOT PEDAL	+CAB2	-TB0VDC	1020100000	WDU4 WPE SERIES TERMINAL BLOCK SUITABLE FOR SIZE 26 TO 10 AWG OPERATE 130C, 600V 35A	WEIDMULLER
=FOOT PEDAL	+CAB2	-TB2	1020100000	WDU4 WPE SERIES TERMINAL BLOCK SUITABLE FOR SIZE 26 TO 10 AWG OPERATE 130C, 600V 35A	WEIDMULLER
=FOOT PEDAL	+CAB2	-TB24VDC	1020100000	WDU4 WPE SERIES TERMINAL BLOCK SUITABLE FOR SIZE 26 TO 10 AWG OPERATE 130C, 600V 35A	WEIDMULLER
=FOOT PEDAL	+CAB2	-TB120	1020100000	WDU4 WPE SERIES TERMINAL BLOCK SUITABLE FOR SIZE 26 TO 10 AWG OPERATE 130C, 600V 35A	WEIDMULLER
=FOOT PEDAL	+CAB2	-TBGRND	1010100000	WDU4 WPE SERIES TERMINAL BLOCK SUITABLE FOR SIZE 16 TO 6 AWG OPERATE 130C	WEIDMULLER
=FOOT PEDAL	+CAB2	-TBN	1020100000	WDU4 WPE SERIES TERMINAL BLOCK SUITABLE FOR SIZE 26 TO 10 AWG OPERATE 130C, 600V 35A	WEIDMULLER
=ROTARY BASKET	+CAB3	-ENC217	5412ESCH060604	ENCLOSURE 06X06X04 INCH, NEMA 4-12 JIC ENCLOSURE WITH LOCK	EXM
=ROTARY BASKET	+CAB3	-ENC217	SJOOW	14/3 AWG, 105C	GENERAL CABLE
=ROTARY BASKET	+CAB3	-ENC217	RDMC20AR	NYLON CORD GRIP M TYP2 M20*1.5 0.35	ELEC DIRECT
=ROTARY BASKET	+CAB3	-ENC217	RDMC20AA	NYLON CORD GRIP M TYPE M20*1.5 0.47	ELEC DIRECT
=ROTARY BASKET	+CAB3	-ENC217	FF15MC	TYPE SPST COUNTDOWN TIMER, 15 MIN MAX	IDEC
=ROTARY BASKET	+CAB3	-SW318	SM-2C-40	PRESSURE SWITCH 40PSI SPDT	NASON
=ROTARY BASKET	+CAB3	-TB3	1020100000	WDU4 WPE SERIES TERMINAL BLOCK SUITABLE FOR SIZE 26 TO 10 AWG OPERATE 130C, 600V 35A	WEIDMULLER
=ROTARY BASKET	+CAB3	-TB120	1020100000	WDU4 WPE SERIES TERMINAL BLOCK SUITABLE FOR SIZE 26 TO 10 AWG OPERATE 130C, 600V 35A	WEIDMULLER
=ROTARY BASKET	+CAB3	-TBGRND	1010100000	WDU4 WPE SERIES TERMINAL BLOCK SUITABLE FOR SIZE 16 TO 6 AWG OPERATE 130C	WEIDMULLER
=ROTARY BASKET	+CAB3	-TBN	1020100000	WDU4 WPE SERIES TERMINAL BLOCK SUITABLE FOR SIZE 26 TO 10 AWG OPERATE 130C, 600V 35A	WEIDMULLER
=ROTARY BASKET	+FIELD	-M318	0449 (34R4BF-Z4)	PARALLEL SHAFT AC GEARMOTOR, 9.4RPM, 1/15HP RUN CAPACITOR 49491054 UL FILE E44529, 115V 1AMP	J.R.P
	+FIELD	-MTR214			
=FOOT PEDAL	+FIELD	-PC309	YG2A14-UB3XLEAX	FEMALE CONNECTOR M12 4-PIN ELBOW A-CODED, 300V 4A	SICK
=FOOT PEDAL	+FIELD	-PC309	GX3-AP-1E	GX SERIES M18 PHOTOCELL, 10-30V 200MA	AUTOMATION DIRECT
	+FIELD	-PLS216	SXC-X8A1-10	PULSING SYSTEM 1-10 OUTPUT 24V	XIE CHANG
	+FIELD	-SOV215	DCF-ZM-25	PULSING VALVE 1PO NPT 24VDC	XIE CHANG
	+FIELD	-SOV216	DCF-ZM-25	PULSING VALVE 1PO NPT 24VDC	XIE CHANG
=FOOT PEDAL	+FIELD	-SOV313	VP342-3DZ02NA	ELECTRICAL SOLENOID 120V 3/2 1/4 NPT, 110V 1.55W	SMC
=ROTARY BASKET	+FIELD	-SOV320	VP342-3DZ1-02NA	1/4 SOLENOID, OPERATED PRESSURE: 3 TO 150 PSI	SMC

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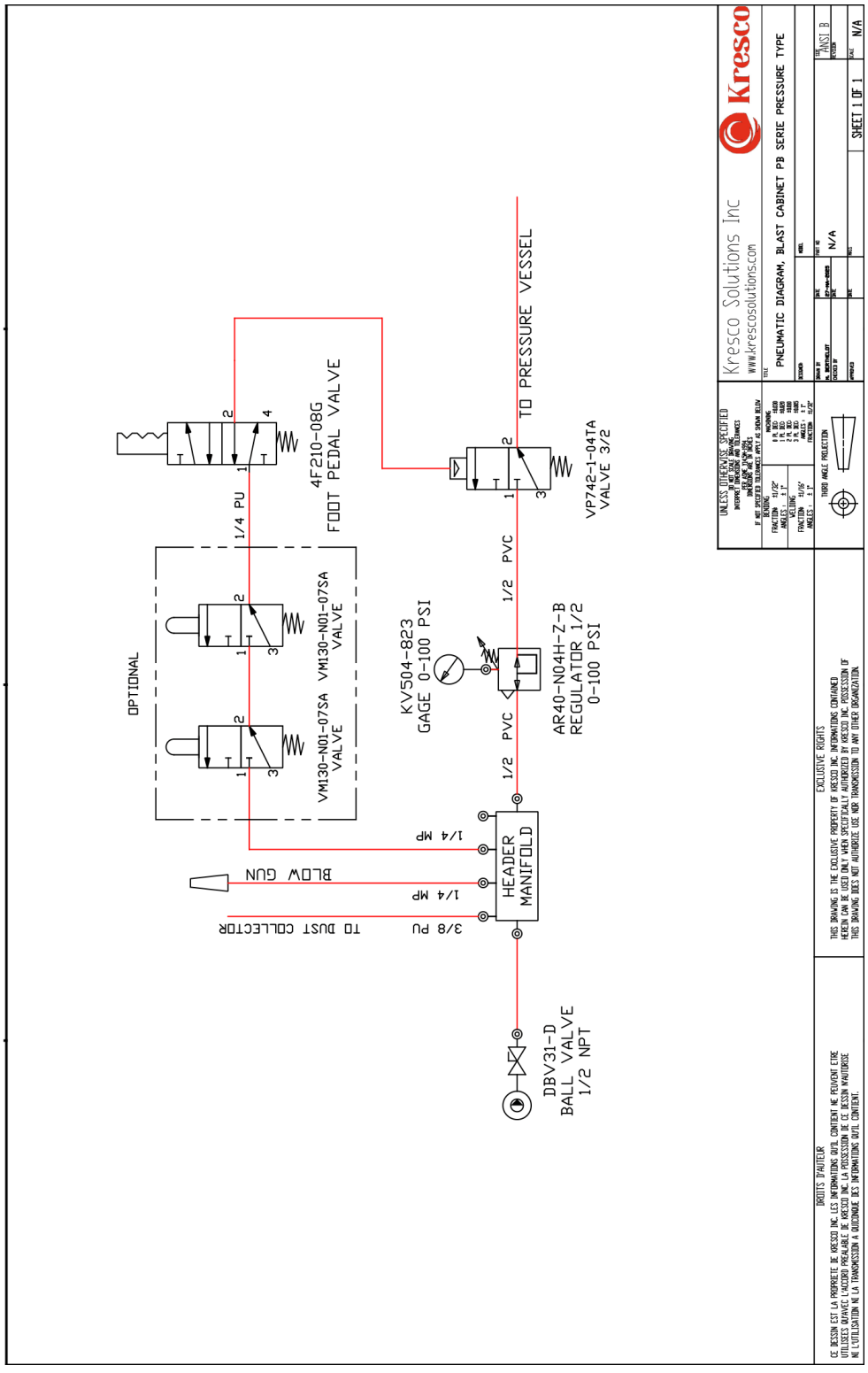
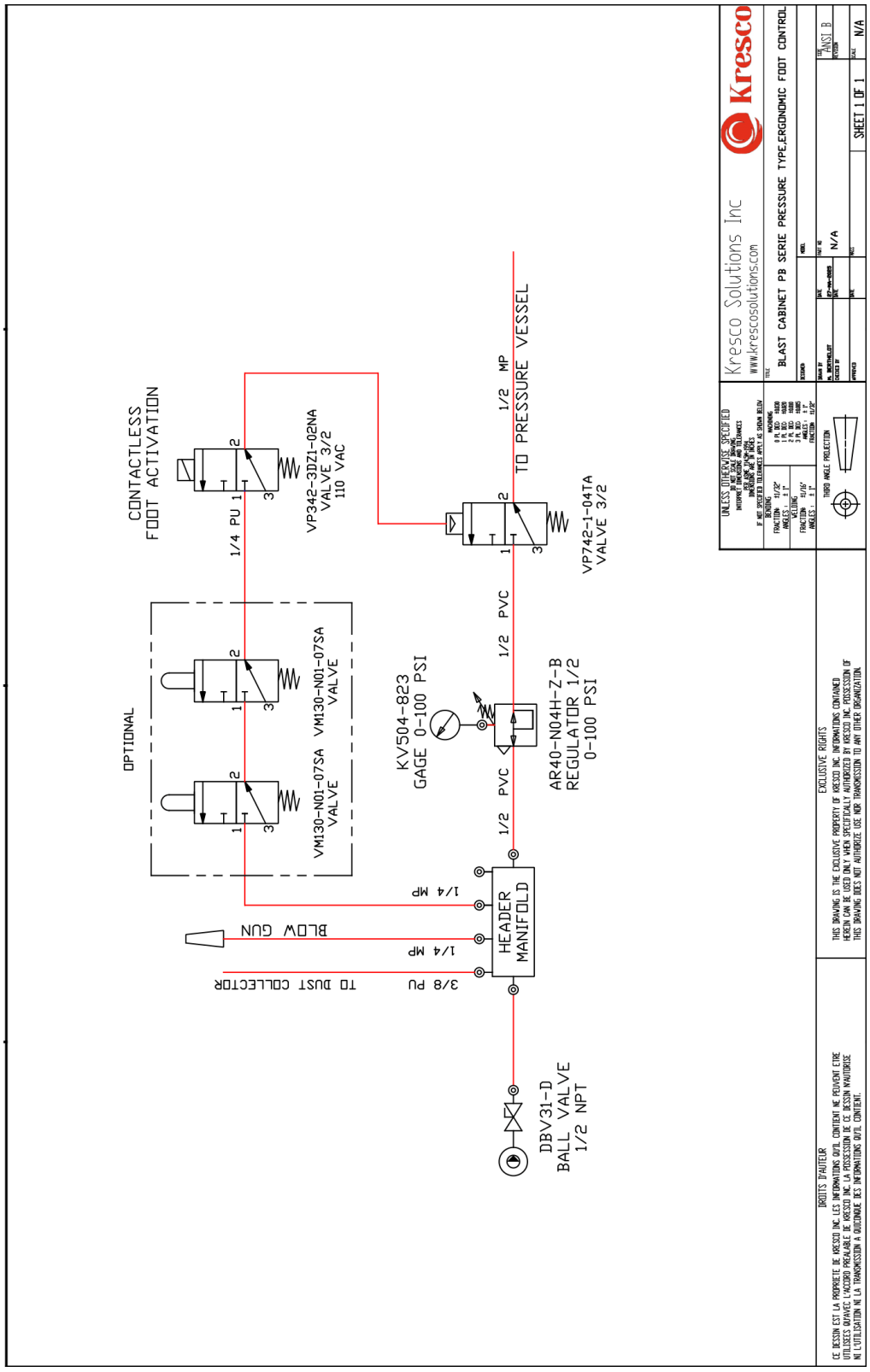
PNEUMATIC DIAGRAMS

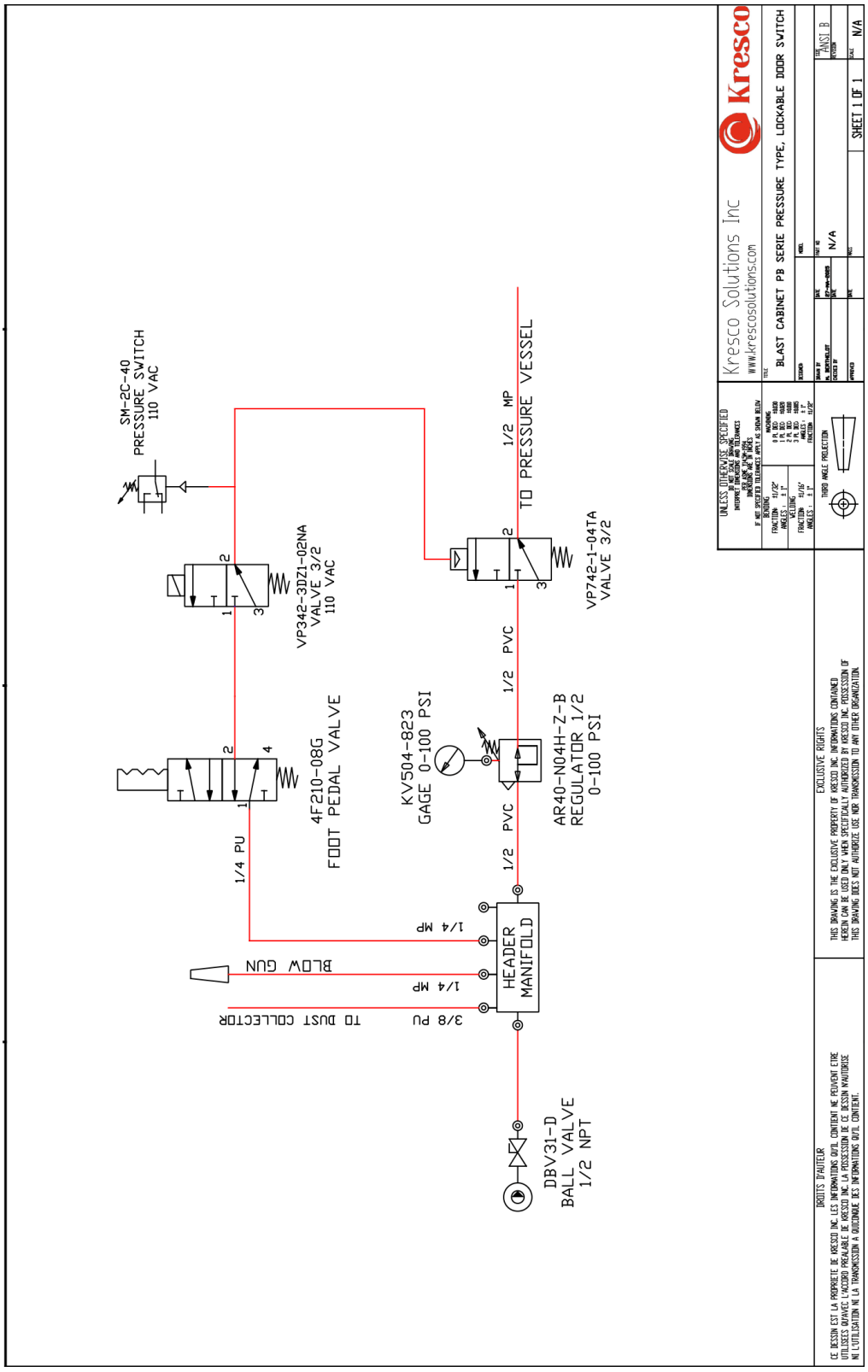
SANDBLAST CABINET PB SERIES PRESSURE TYPE



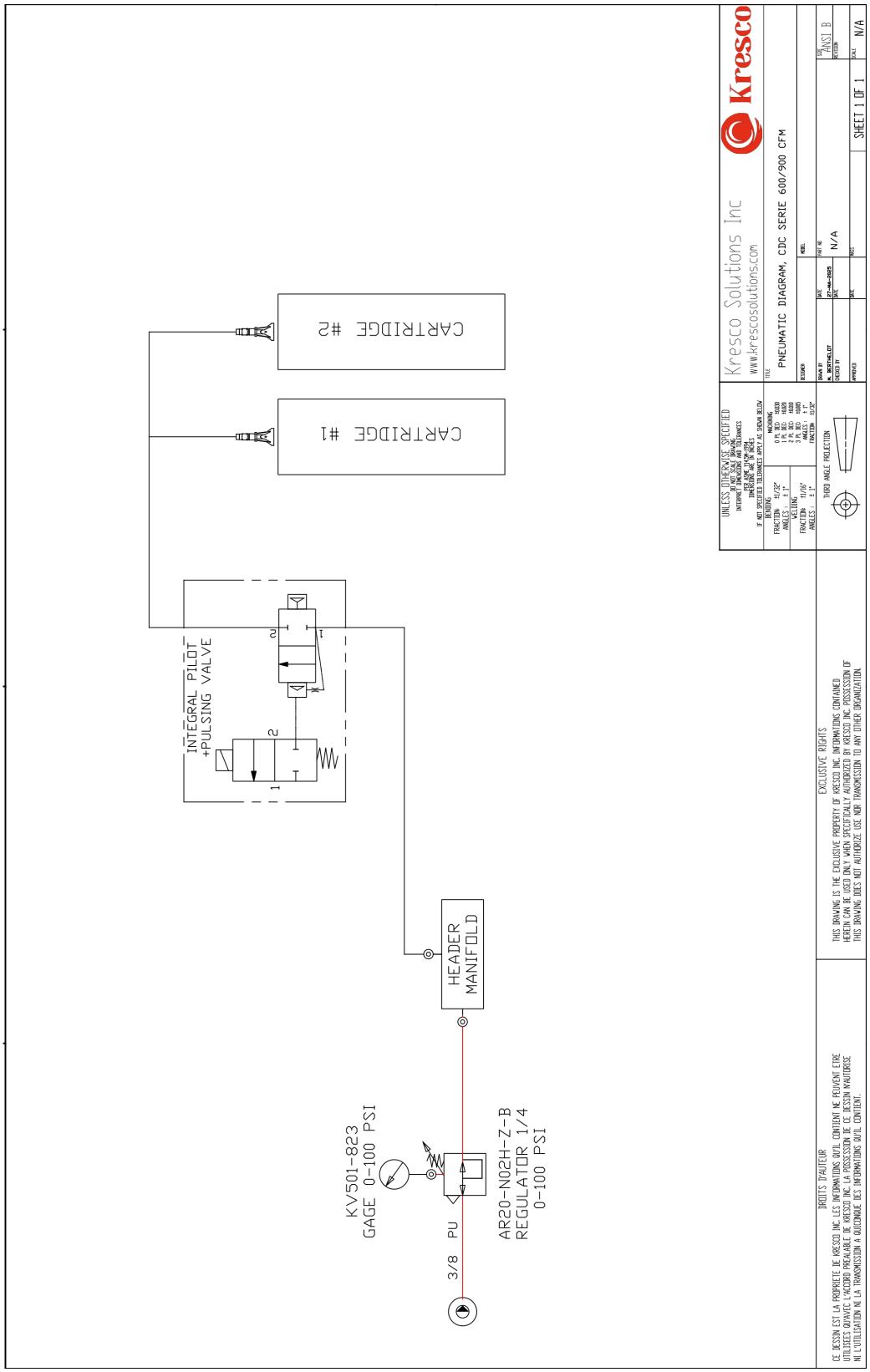
SANDBLAST CABINET PB SERIES PRESSURE TYPE WITH ERGONOMIC FOOT CONTROL



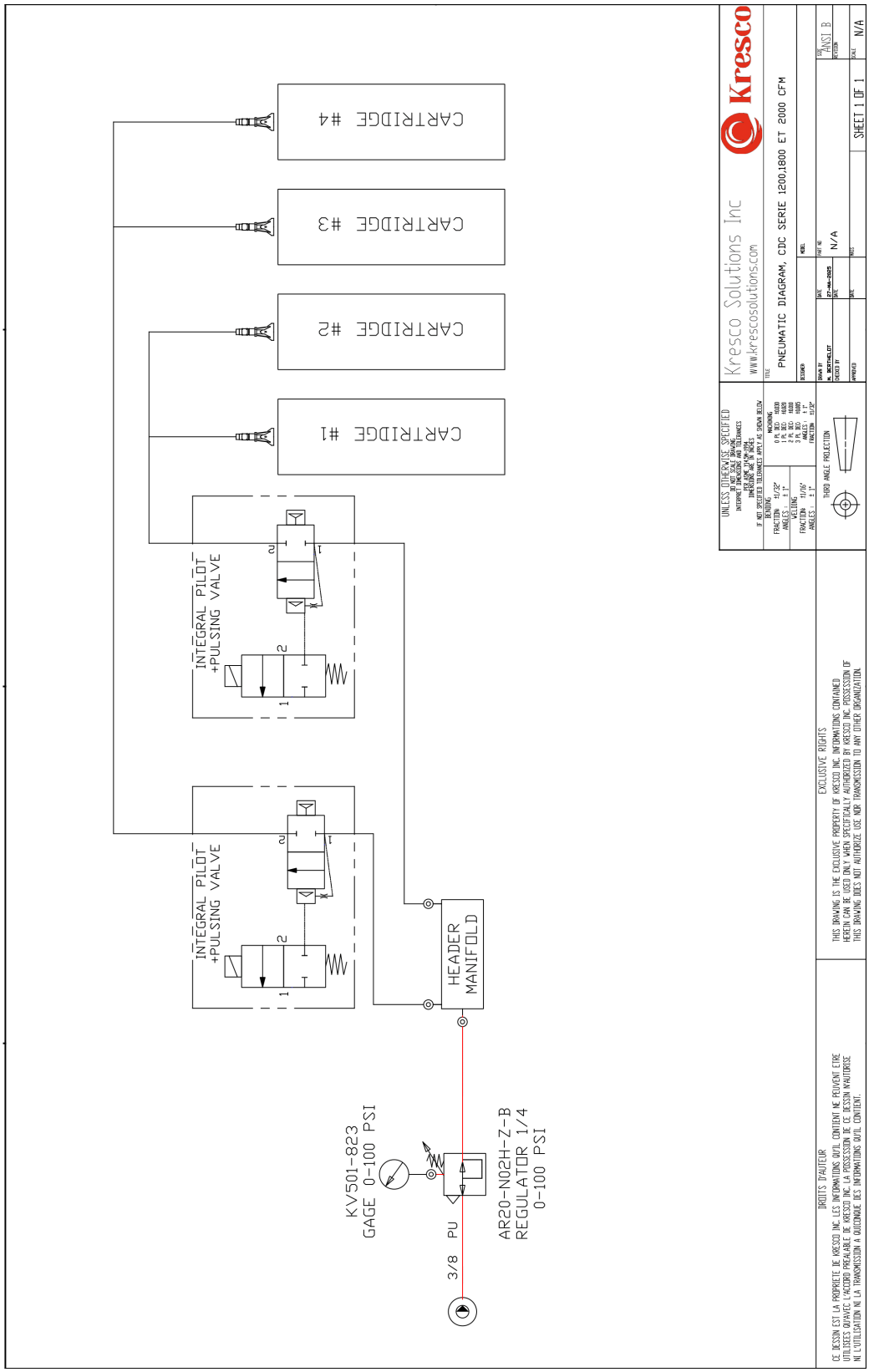
SANDBLAST CABINET PB SERIE PRESSURE TYPE WITH LOCKABLE DOOR SWITCH



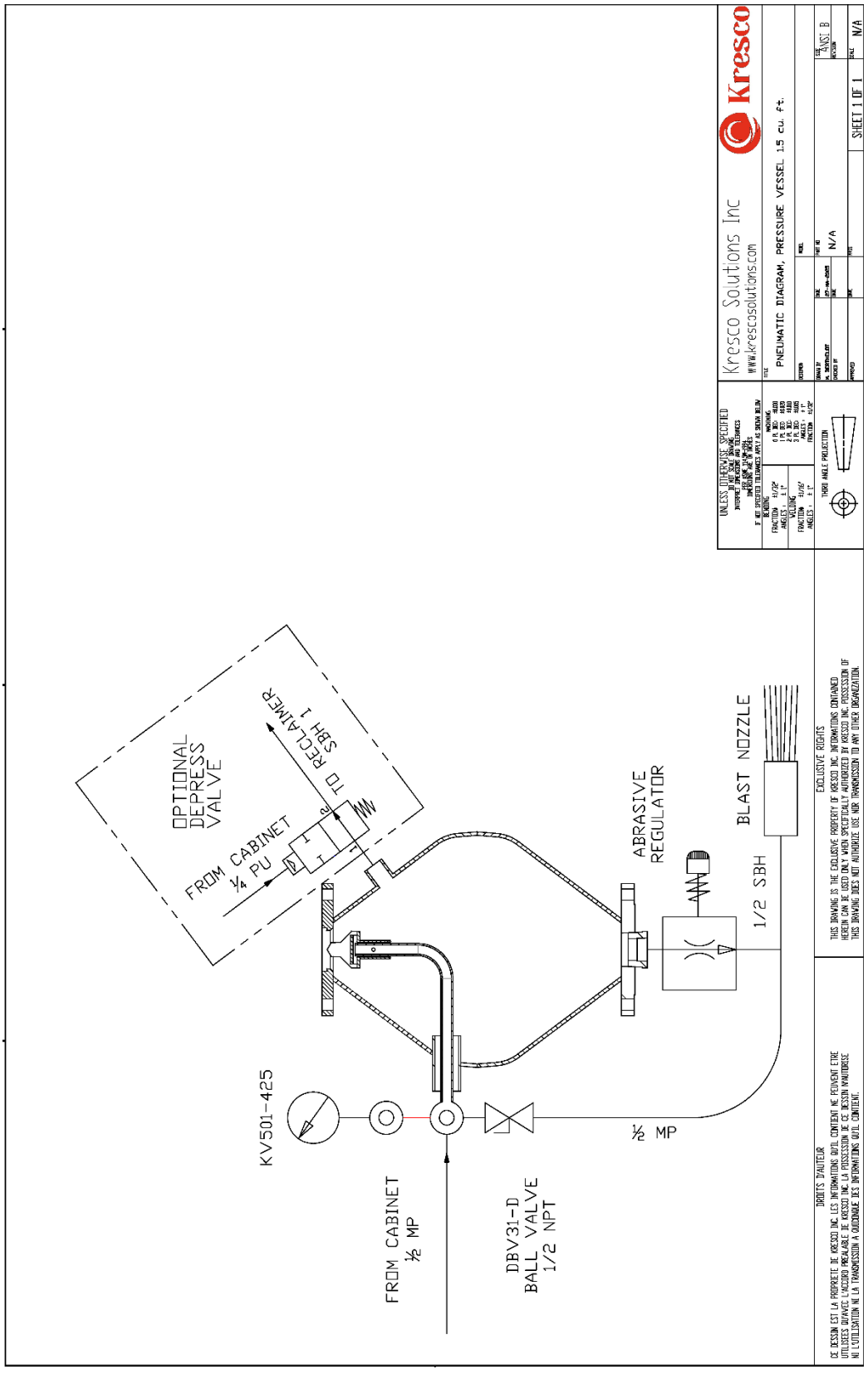
DUST COLLECTOR CDC 600 & 900



DUST COLLECTOR CDC 1200, 1800 & 2000



PRESSURE VESSEL 1.5 CU. FT.



WARRANTY STATEMENT

Kresco warrants all equipment led in this manual which is manufactured by **Kresco** and bearing its name, to be free from defects in material and workmanship on the date of sale by an authorized **Kresco** distributor to the original purchaser for use. Notwithstanding any special, extended or limited warranty published by **Kresco** will, for a period of TWENTY-FOUR (24) months from the date of sale, repair or replace any part of the equipment determined by **Kresco** to be defective.

This warranty applies only when the equipment is installed, operated and maintained in accordance with **Kresco**'s written recommendations. This warranty DOES NOT cover, and **Kresco** shall not be liable for general wear and tear, or any malfunction, damage or wear caused by faulty installation, misapplication, abrasion, corrosion, inadequate or improper maintenance, negligence, accident, tampering, or substitution of non-**Kresco** component parts. Nor shall **Kresco** be liable for malfunction, damage or wear caused by the incompatibility with **Kresco** equipment with structures, accessories, equipment or materials not supplied by **Kresco**, or the improper design, manufacture, installation, operation or maintenance of structures, accessories, equipment or materials not supplied by **Kresco**.

This warranty is conditioned upon the prepaid return of the equipment claimed to be defective to an authorized **Kresco** distributor for verification of the claimed defect. If the claimed defect is verified, **Kresco** will repair or replace free of charge any defective parts. The equipment will be returned to the original purchaser, transportation prepaid. If the inspection of the equipment does not disclose any defect in material or workmanship, repairs will be made at a reasonable charge, which charges may include the costs of parts, labor, and transportation.

THIS WARRANTY IS EXCLUSIVE, AND IS IN LIEU OF ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING BUT NOT LIMITED TO WARRANTY OF MERCHANTABILITY OR WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE.

Kresco's sole obligation and the buyer's sole remedy for any breach of warranty shall be as set forth above.

The buyer agrees that no other remedy (including, but not limited to, incidental or consequential damages for lost profits, lost sales, injury to person or property, or any other incidental or consequential loss) shall be available. Any action for breach of warranty must be brought forward within two (2) years of the date of sale.

Kresco MAKES NO WARRANTY, AND DISCLAIMS ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, IN CONNECTION WITH ACCESSORIES, EQUIPMENT, MATERIALS OR COMPONENTS SOLD BUT NOT MANUFACTURED BY **Kresco**. These items sold, but not manufactured by **Kresco** (such as electric motors, switches, hose, etc.), are subject to the warranty, if any, of their manufacturer. **Kresco** will provide the purchaser with reasonable assistance in making any claim for breach of these warranties.

LIMITATION OF LIABILITY

In no event will **Kresco** be liable for indirect, incidental, special or consequential damages resulting from **Kresco** supplying equipment hereunder, or the furnishing, performance, or use of any products or other goods sold hereto, whether due to a breach of contract, breach of warranty, the negligence of **Kresco**, or otherwise.

Report all accidents or "near misses" which involve **Kresco** products to:

- → Kresco Technical Assistance at 1-877-757-3726

The following items are not covered under the **Kresco** warranty policy:

- → Parts or chassis replacement due to normal wear
- → Consumables and replacement parts (hoses, nozzle, gaskets, etc.)

Defective material or workmanship is not considered normal wear

ABOUT KRESCO

Kresco designs, manufactures, and supports industrial equipment for the surface treatment industries. **Kresco** has standard equipment designed for most applications and can customize equipment to meet or exceed your production expectations.

SANDBLASTING

- Sandblast Booths
- Sandblast Cabinets
- Automated Sandblasting Systems
- Abrasive Reclaiming Systems
- Pressurized Sandblasters
- Dust Collectors

SHOT BLASTING

- Roller Conveyor Blaster
- Rotary Table Blaster/Swing Table Blaster
- Spinner Hanger (Batch)
- Continuous Flow with Monorail.
- Rubber and Steel Flight Tumbler Blasters
- Flow Thru Barrel Blasters
- Mesh Belt Continuous Blasters
- Monorail System Blasters
- Rim Blasters
- Preservation Line

PAINTING & COATING

- Paint Spray Booths
- Powder Coating Booths
- Drying Ovens

SOLVENT RECOVERY

- Batch Solvent Distillers
- Continuous Flow Solvent Distillers
- Oil Cooling Systems

PARTS & CONSUMABLES

- Blast Nozzles
- Blast Hoses
- Abrasive Media (Glass Bead, Aluminum Oxide, Steel Shot and Grit)
- Air Valves
- Abrasive Metering Valves
- Cartridge Filters
- Sludge Bags
- Safety Equipment & PPE

SERVICES

- Turnkey Project Design
- Custom Design
- Full Installation
- Start-up Supervision
- Training
- Maintenance
- Retrofit & Upgrade

All systems are designed to build and they are manufactured with the highest quality standards in our manufacturing shop in Quebec, Canada.