

# INSTALLATION SECTION

Pant-a-Matic 1400



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# INSTALLATION

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## UNCRATING AND SHIPMENT INSPECTION

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Your Colmac machine should be uncrated and carefully checked for shipping damage.

Upon delivery, visually inspect the crate and visible parts for shipping damage. If the crate or cover is damaged or signs of possible damage are evident, have the carrier note the condition on the shipping paper before the shipping receipt is signed. **Carrier must** have signed for damage before any damage claims can be processed.

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## PLACEMENT INSTRUCTIONS

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Before moving the machine into the set up area, plans should be made for position and placement. Marking the floor with chalk and allowing the proper space for the machine may easily do this.

Consider the workflow to and from the machine, the comfort and convenience for the operator, and accessibility for maintenance. Ergonomics should be considered as well as accessibility for

maintenance. Figures 1 through 3 show the positions of open doors or panels, etc. Figure 4 shows recommended spacing for placement of two (2) machines.

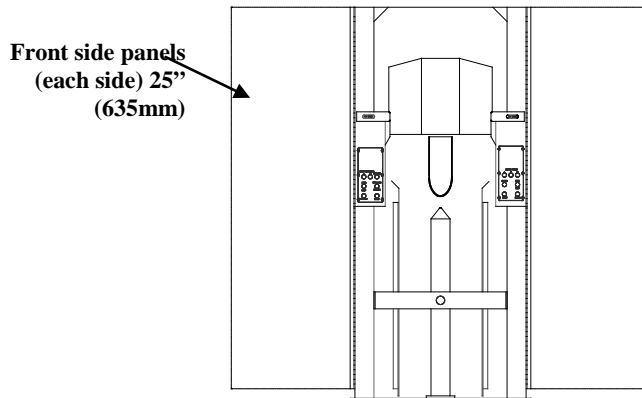


Figure 1

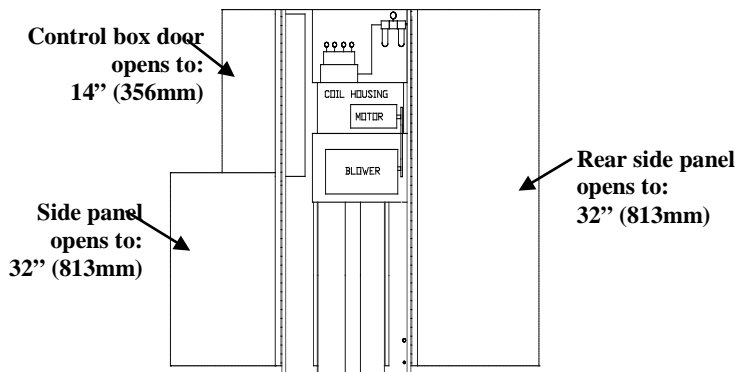


Figure 2

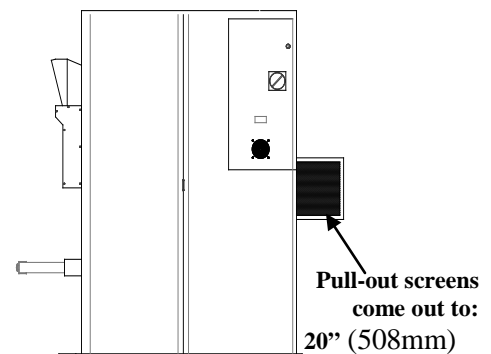
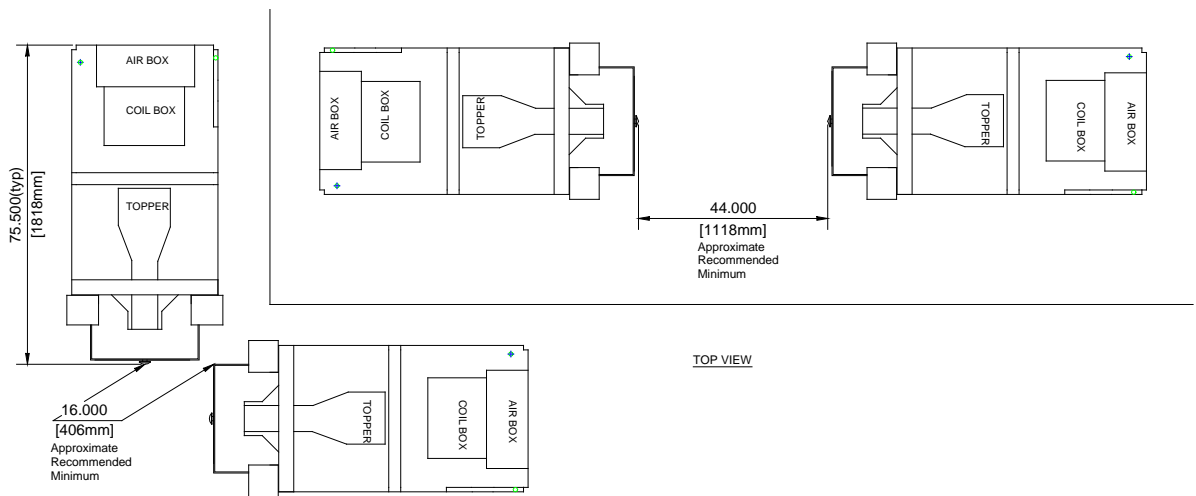


Figure 3



**Figure 4**

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## **INSTALLATION INSTRUCTIONS**

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Dismantle the crating.

Open the control box with the key or tool that is mounted to the interlock switch.

Remove the set of keys stored in the control box and place in the following locations: the control box door, the power switch located on the front, right control panel.



**Read your Pant-A-Matic 1400 manual thoroughly!!**

Open all side doors by first removing the red shipping brackets. There are a total of five (5) brackets.

Remove all of the parts boxes that were shipped inside on the deck. Unpack each box and install the following parts.

1. Install steam regulator and gauge to the incoming steam line with fittings supplied.
2. Set and level the machine.

3. Tilt knee guard down and bolt with two (2) bolts supplied (in the control box).
4. Cut the plastic ties on each chain mounted on the side of each pressing head. Let the chains hang below the sprocket, on the outside of the frame.
5. Cut and remove the packing wires from the leg stretcher bars.
6. Cut and remove the packing wires from the pressing heads.
7. Cut the wires holding the return spring.
8. Connect each chain to the return spring directly above each sprocket using **only** the last link in each chain.
9. Now you are ready to hook up the machine. Refer to the Installation Requirement Drawing; page X of the “**Specifications**” section.

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### ***ELECTRICAL SERVICE***

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May be connected from the nearest disconnect box directly to the control box of the machine as shown on the wiring diagram.

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### ***AIR LINE HOOK-UP***

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May be hooked up as shown on the Installation Requirements Drawing.

It is recommended that valves be installed to shut off supply of steam, air and steam return from each machine. It is also recommended that a strainer or filter be placed between the incoming steam shutoff valve and the machine.

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### ***PROPER STEAM HOOK-UP***

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The steam and return system connections are very important. Poor steam quality or incorrect connections directly affect its performance. (Reference Figure 5)

1. To insure adequate steam supply, the steam line should be 1-1/2" (38mm) or larger and the return line should be 3/4" (19mm). The factory recommends the larger supply sizes to compensate for line loss. Since the machine is equipped with steam traps, no additional traps are required. Never put one (1) trap in line with another, as the traps will no longer function. Be sure to check all steam connections for leaks. A strainer should be put into the steam line. All steam lines should be insulated to prevent loss of heat and possible injury to personnel.

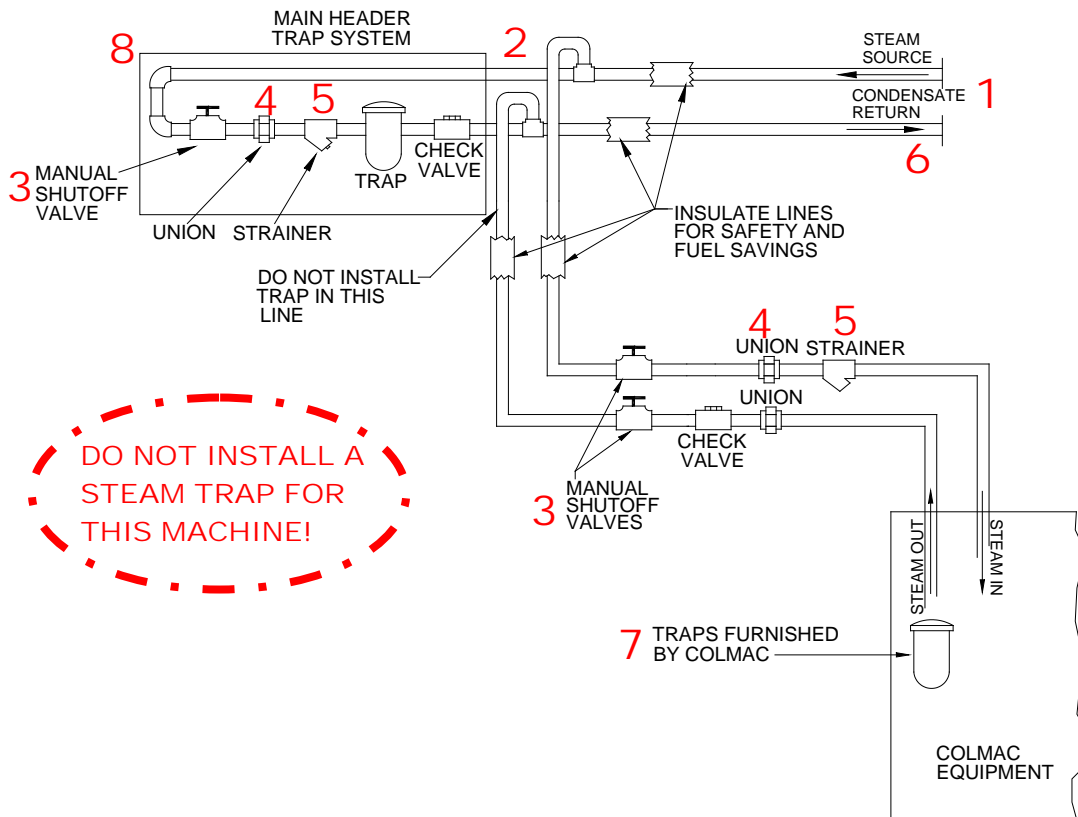


Figure 5

2. **Supply Line:** Connect the steam line to the top of the steam headers as shown in Figure 5 to insure a clean, dry steam supply.
3. **Shut-off valves** installed ahead of the union and strainer on the "steam-in" and "steam-out" lines and between the union and return header on the "Main Header Trap System" (8), will simplify shut-off for repair and maintenance. "Ball" or "Gate" type valves are recommended for maximum flow.

4. **Unions** placed between the shut-off valve and the machine will simplify hook-up and disconnection between the steam supply and the machine.
5. The **strainer** is important to insure that the steam is free of foreign materials that could foul electric valves, traps and other components in the steam system of the machine.
6. **Condensate Return System:** Connect the condensate, return pipe to the top of the return header to prevent foreign material from being drained back into the return system of the machine.
7. **Do not install a steam trap for this machine.** Your Colmac Machine has traps already installed as part of the return system. If a trap is installed outside the machine, the steam and return systems will not function properly.
8. To assure clean, unsaturated steam to your equipment, the main steam header(s) should be trapped. This will help prevent condensate in the steam lines and increase the efficiency of the steam-heated equipment.

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## **FACTORY SETTINGS**

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The following settings may require occasional adjustment.

<b>AIR PRESSURE SETTINGS</b>			
<b>Description</b>	<b>PSI</b>	<b>Description</b>	<b>PSI</b>
Main air	85	Cuff loading	8-10
Cuff operating	13-15	Waist Expand	13-15
Leg cylinders up	40	Chest	60
<b>FLOW CONTROL SETTINGS</b>			
<b>Description</b>		<b>From "0" Adjustment</b>	
Leg cylinders down		2-1/2 turns open	
Lift cylinders		2-1/2 turns open	
Waist (on hood)		1/4 turn open	
Cuff (on hood)		1 turn open	
Fly valve		1-1/4 turns open	

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## **FINAL CHECK**

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Once all services are connected, the machine is ready for operation. Make the following check:

1. Be certain the machine rests solidly.

2. Check direction and/or the rotation of blower motor. It is very important that the blower fan be rotating in the direction indicated by the arrow on the fan housing. (This check should be made the first time the machine is turned on.)
3. Check all air and steam lines for any possible leaks.