

**Date:** December 15, 2011 **To:** Independent School District 318

**Project:** Welding Booth po# 3478 **Attn:** 

## **Recommended Equipment:**

(2) sets WB-6055 (2 booths side-by-side) with 7.5HP, 4 cartridges top mount dust collector on booth top

Avani Environmental Intl. Inc.

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www.weldingbooths.com

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side-by-side booths

3,293.5 (1298')

1,991.9 (77.7')

1,971.2 (77.7')

	Revisions		
Rev	Description	Date	Approved

## WB-6055 PREMIER WELDING BOOTH SPECIFICATIONS for Bigfork School

- Hood Dimensions: 60" x 60" x 8.5"

- Back Draft Dimensions: 48.6" x 29.9" x 9.2"

- Hood Service Panel: Removable 7" x 23" service panel

- Back Draft Adjustable Inlet Slots: (3) 1" x 44.7"

- Hood Adjustable Inlet Slots: (2) 1" x 39.9"

- Recessed Lights: (2) Explosion Proof Lights (110V, Single Phase, 60 Hz, 20W)

- Adjustable Knobs: (15) 2 ?" Five Star Twists

- Clean Out Drawer: 3.9" x 43.4" with (3) hand twist locks

- Back Draft Shelve: 5.9" x 48.7"

- Adjustable Level System: 2 ?" Feet (maximum adjustment 5")

- Support Structure: 1 ?" x 4" steel stock welded

- Panel Construction: 14-gauge welded steel single wall with cross and up bracing

- Welding Curtain Supports: (2) adjustable welding curtain brackets

- Forklifting Lugs: total (2) 7.9"W x 3.1"H x 60"D forklifting lugs for dual booth side-by-side to set and move hood / booth / top mounted dust collector

- Fume Arm Ceiling Supports & Brackets: Built into the hood

- Fume Arm Cover Plates: (2) cover plates (6 bolt pattern) to match optional dia. 6" fume arm

- Powder Coated: Avani Safety Blue Standard (custom colors available)

\*\*\* Ten Piece Configuration: (4) side panels, (2) back panels, (2) backdraft assembly, (2) hooddraft assembly to dual booth side-by-side. (Note: booth main set knocks down to separate pack: upper and lower part prior to shipment.)

- Booths can be mounted back-to-back, side-to-side or both options - Electrical Outlets: (2) 110V Outlets (additional single or three phase outlets

- Light Switch: For overhead lights

- Compressed Air Connection

- CO2 or Gas Connection: (additional gas lines or compressed lines available)

- Double Wall Construction (welded)

\*\*\*CO2 bracket

\*\*\*Adjustable Rear Shelf: 62.7"W x 17.6"D x 1.1"H (solid with 2" hole drilled)

## OPTIONS

103.6 [4"]

450 [17

- Welded Nuts: Optional locations for J-Hooks
- Welding Nuts: For wire feeder or welder bracket
- Adjustable Rear Shelf (solid, grated or cutting table)
- Corner Shelves
- Viewing Windows
- Custom Welding Brackets
- Foot Lockers
- Fixtures, Lazy Suzans
- Any option that can fit inside the booth or on the booth

AVANI ENVIRONMENTAL INTL. INC. Sales Department

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Youngsville, NC 27596

NI LIVIRONMENTAL INTE. INC. Sales Departi

(919) 570-2862

info@avanienvironmental.com

1.520 [60\*]

 Date
 Name
 Part Number:

 Drawn by:
 2011-08-15
 \*\*\*

 Checked by:
 WB-5-5P (two S) SDC-B-7-4

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304.8 [12.0

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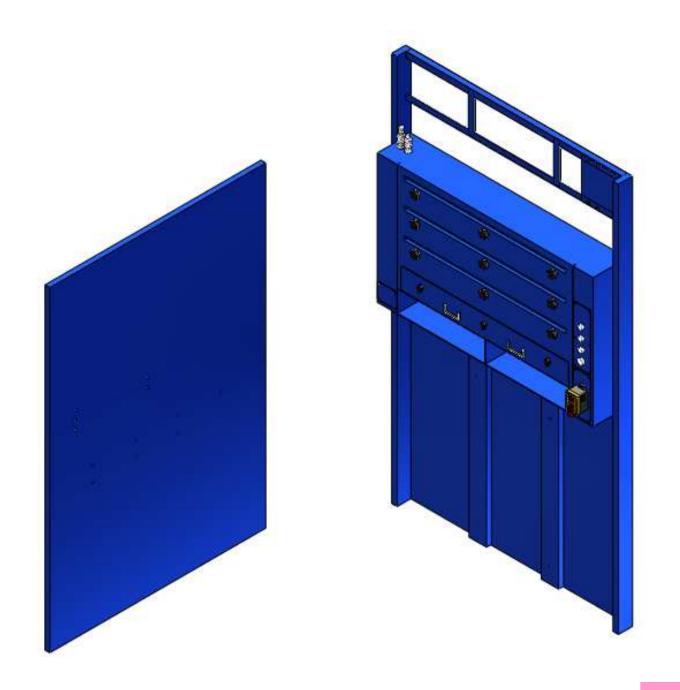
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WB-6055 (2sets side-by-side) with TMC-7-4

Size Scale Drawing Number:

1 = 55 Standard



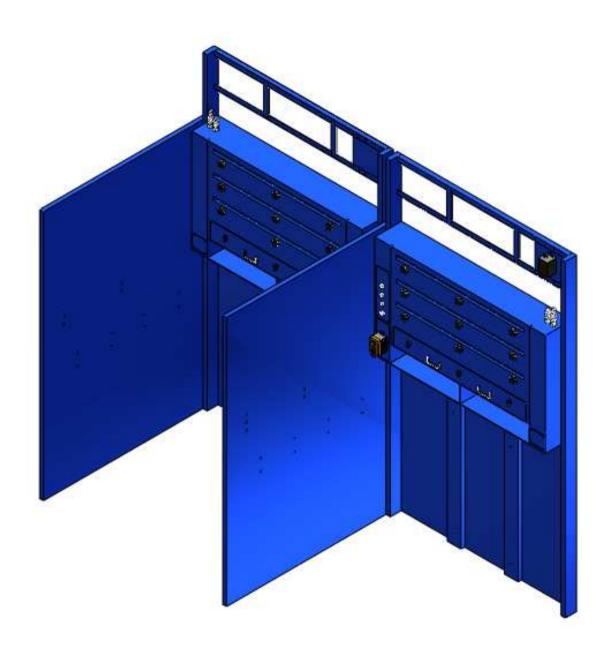


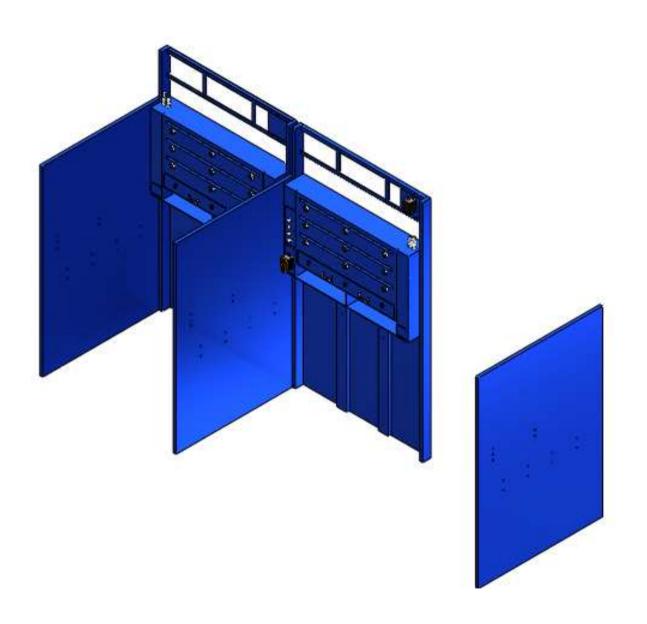




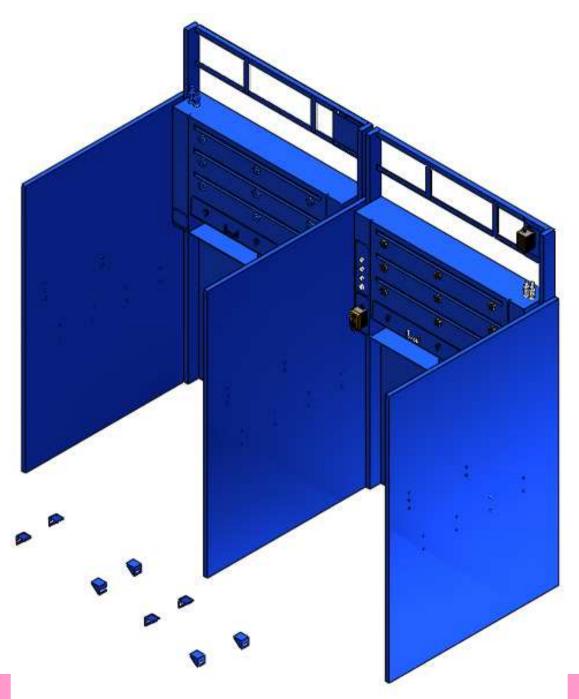




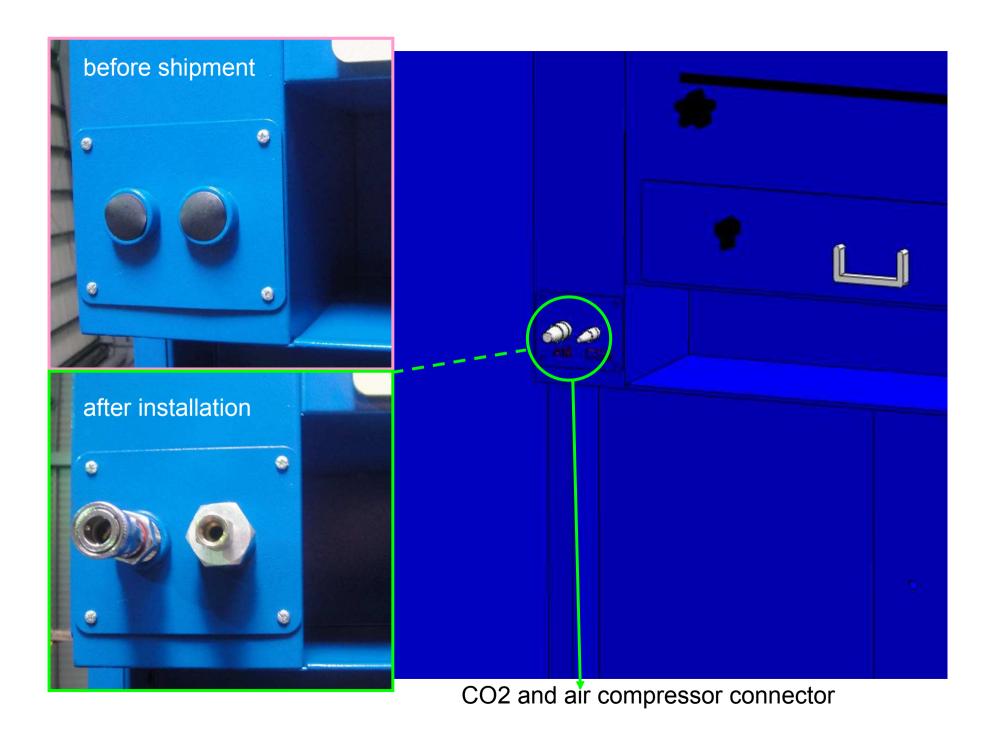




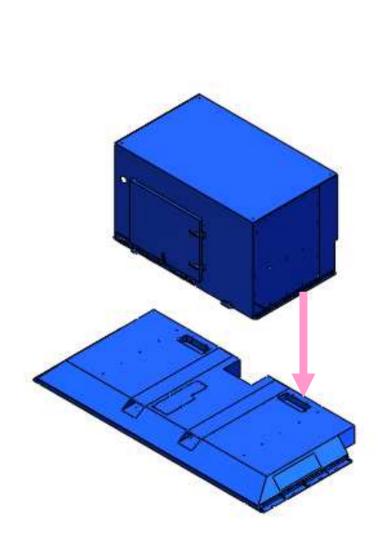


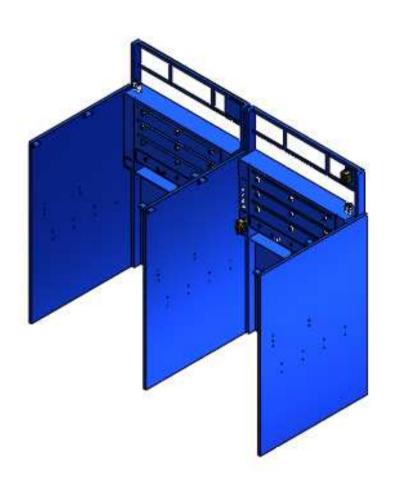




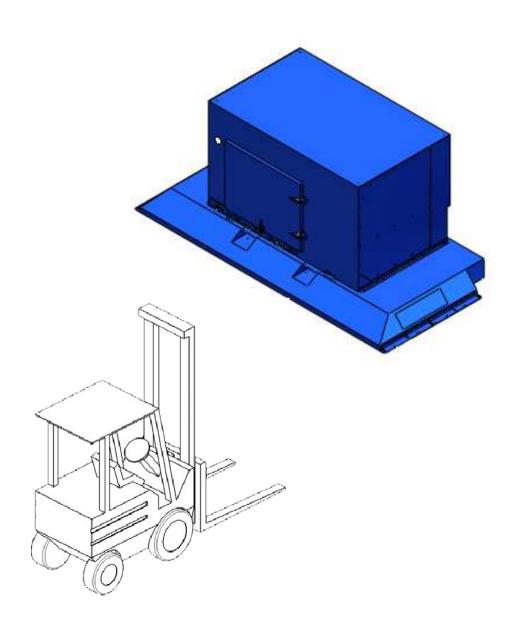


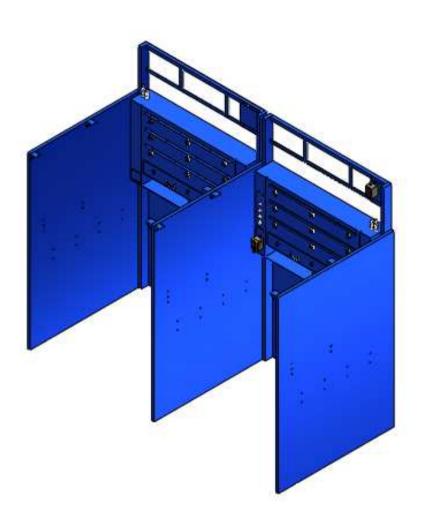
•Place the top mount dust collector TMC-7-4 on the top hood draft. Ensure that it sits properly and is secured with screws.

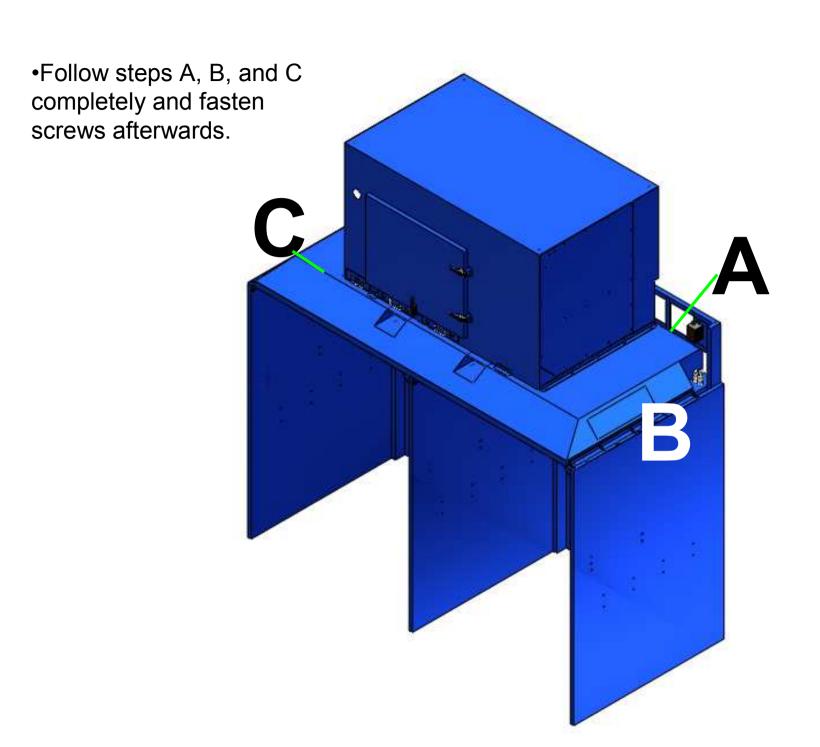




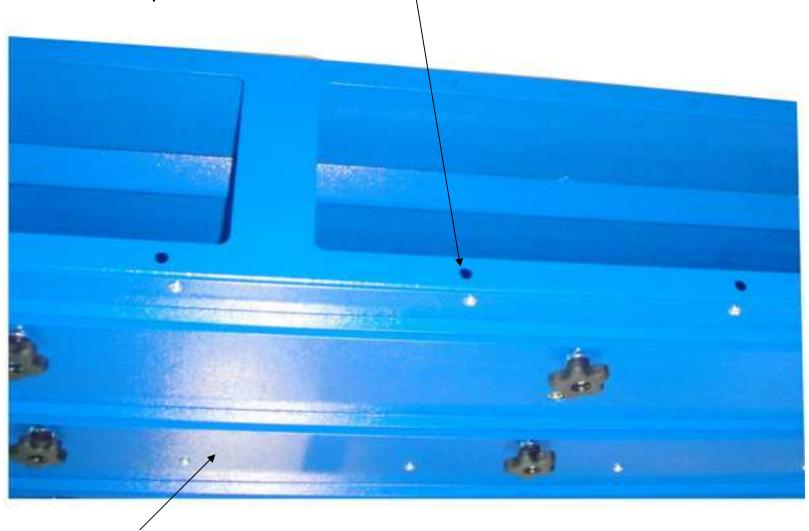
•Place the TMC-7-4 and the top hood draft above the booths.



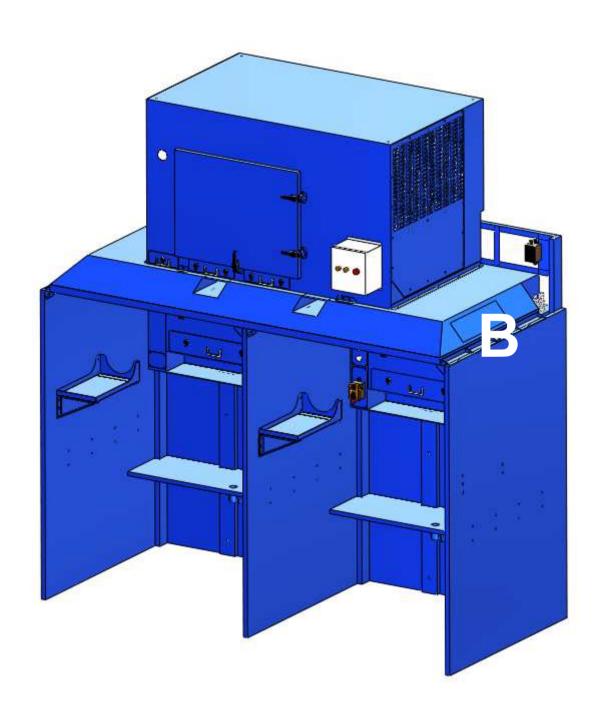




**A2:** Match the bolt patterns of the upper part of the backdraft to the bolt patterns of the TMC-7-4.\

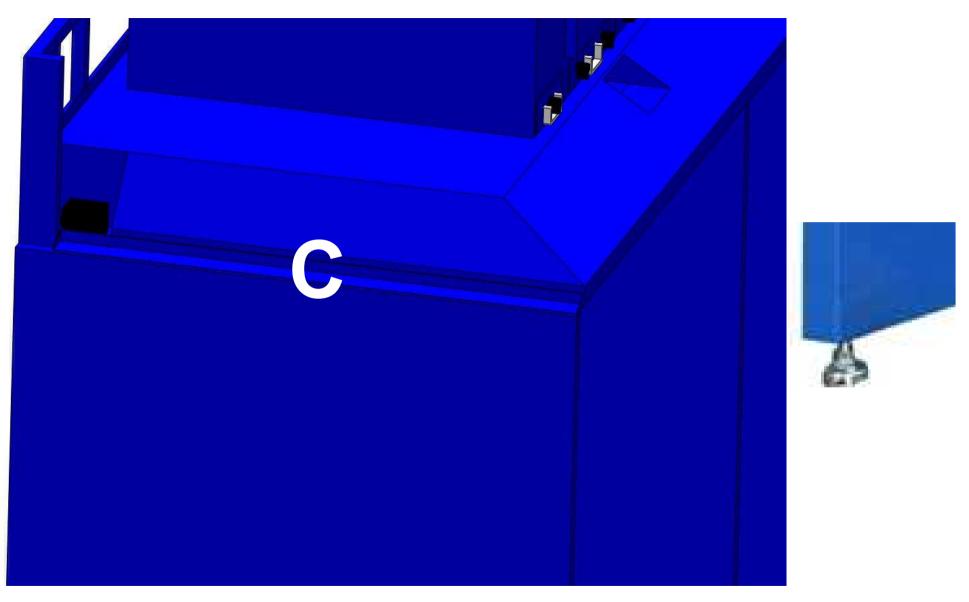


**A1:** Take off the front panel of the backdraft module.





**B:** adjust the feet to ensure that the bolt patterns of the side panel match to the bolt patterns of the top hood draft.

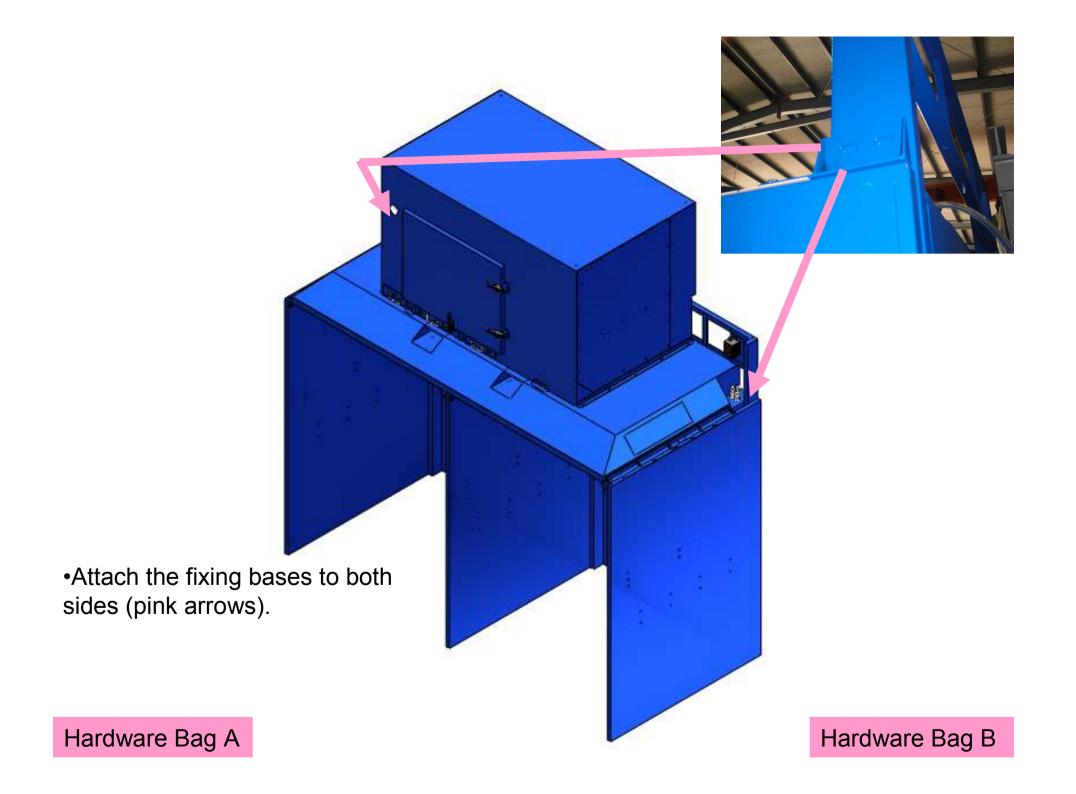


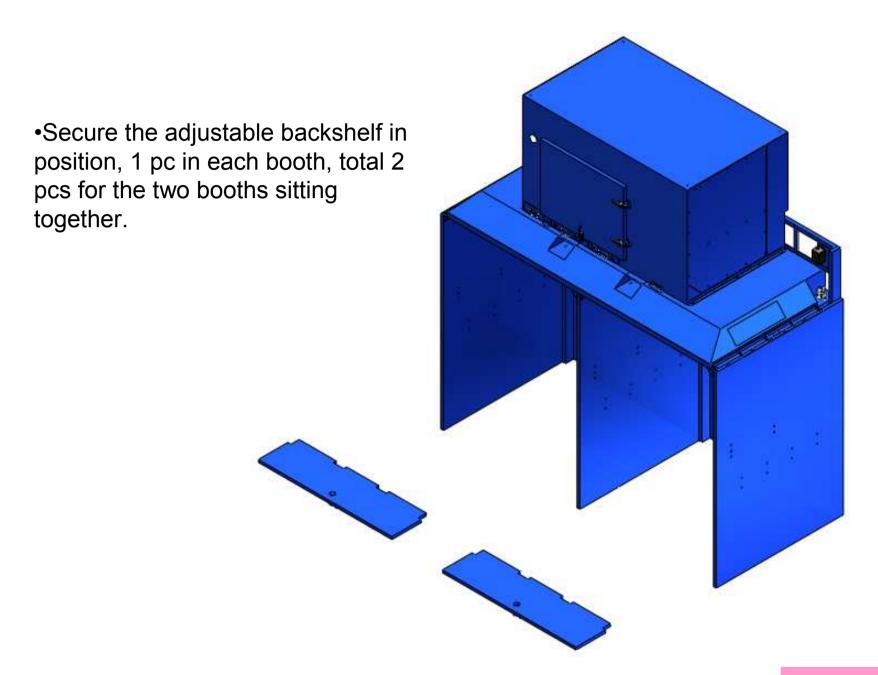
**C:** adjust the feet to ensure that the bolt patterns of the side panel match to the bolt patterns of the top hood draft.

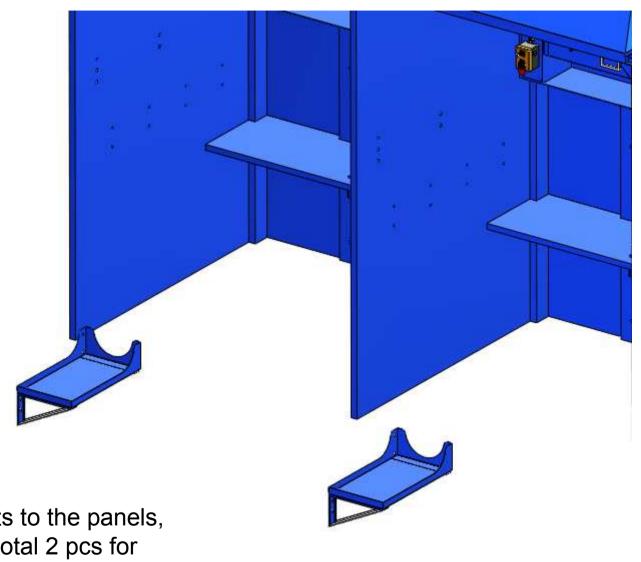
•Attach the hypotenuse corner gussets bases at the panels, below the top hood draft, 2 pcs on each panel side, total 8 pcs for the two booths sitting together (pink circles).



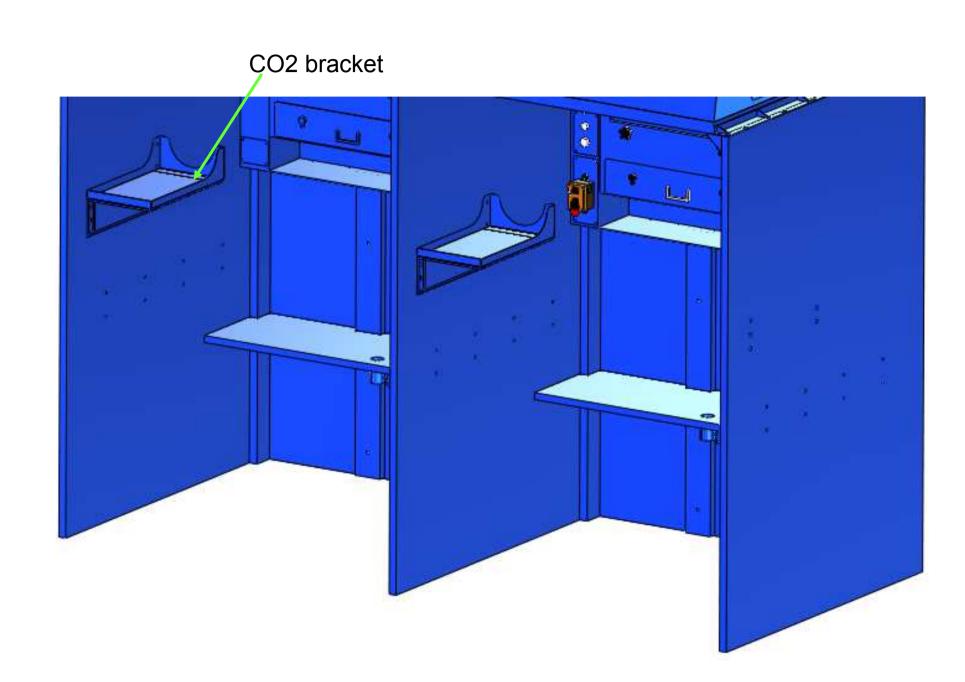


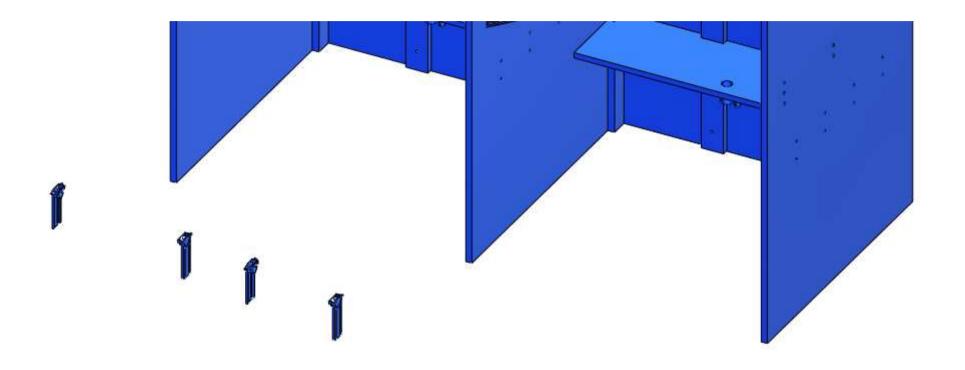




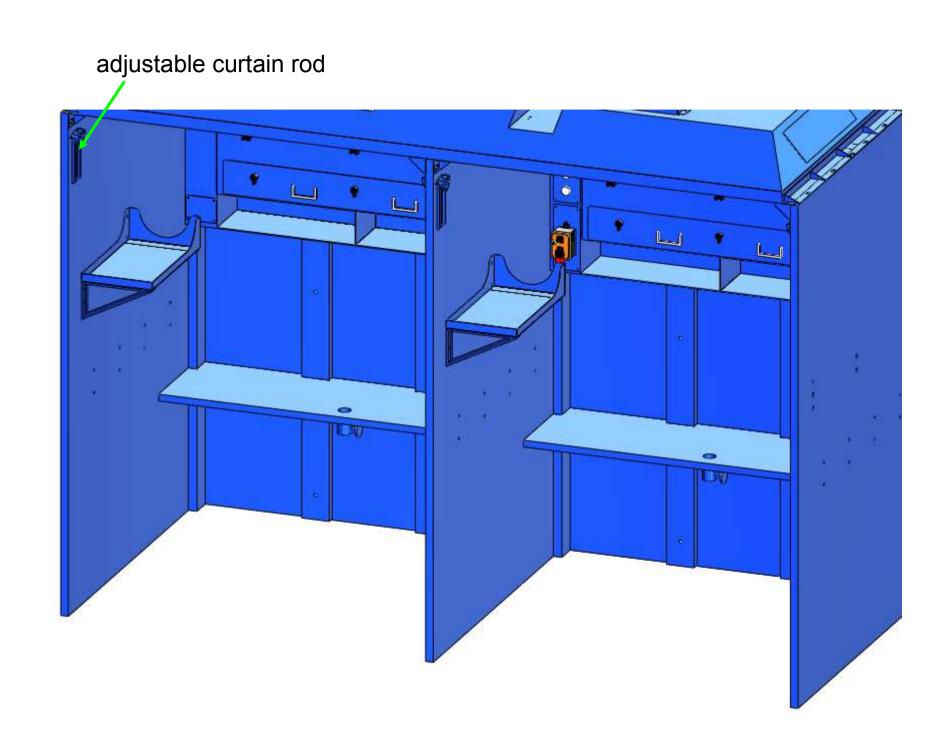


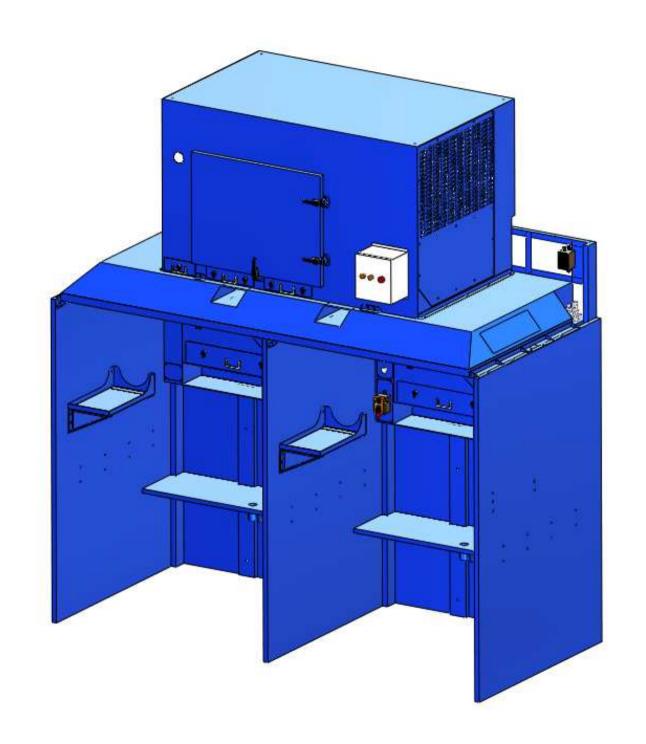
•Attach CO2 brackets to the panels, 1 pc in each booth, total 2 pcs for the two booths sitting together.



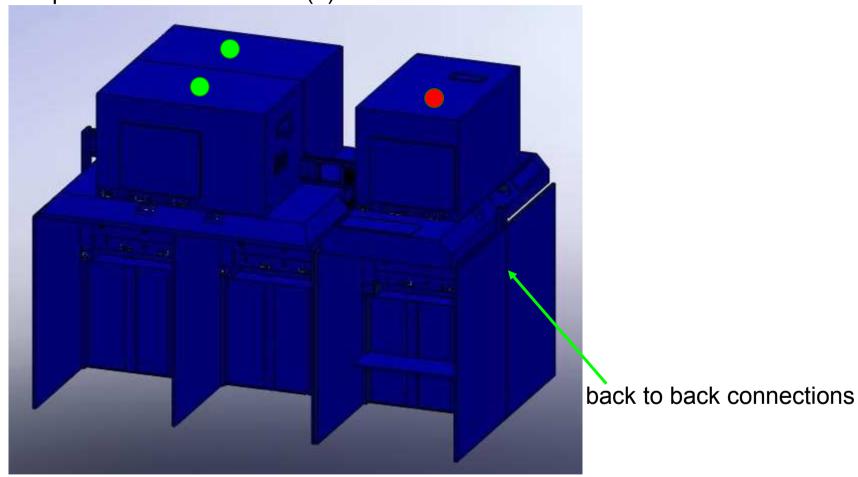


•Attach adjustable curtain rods to the side panels, 2 pcs in each booth, total 4 pcs for the two booths sitting together.

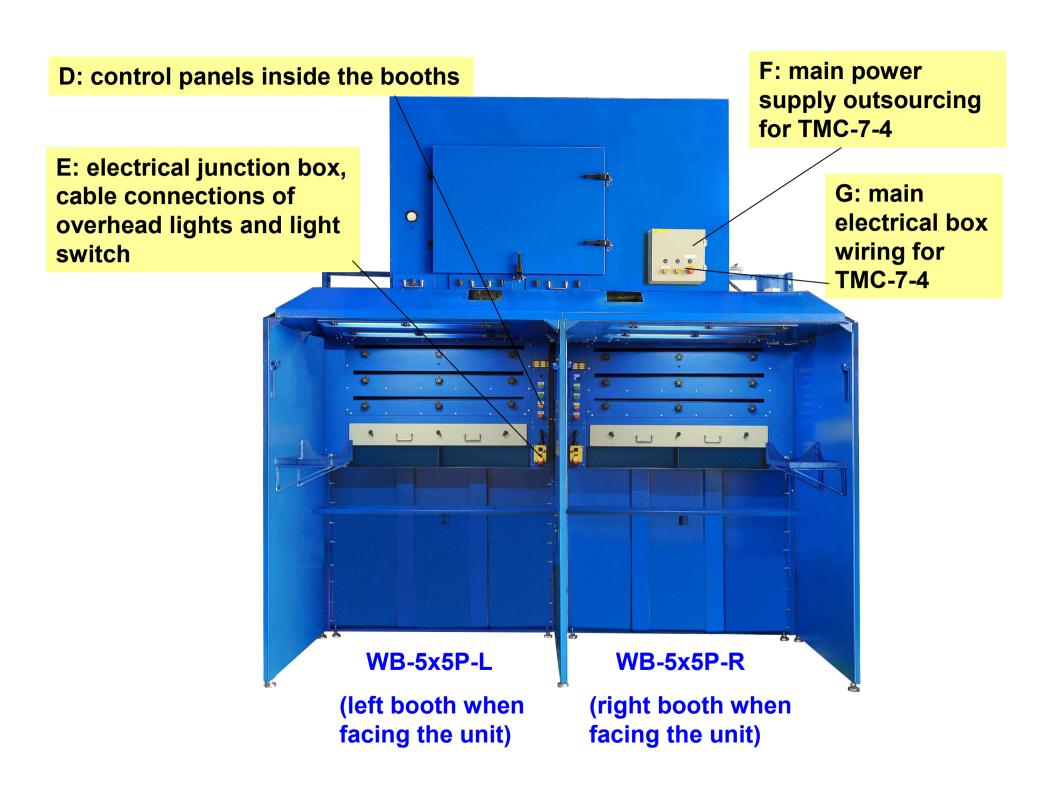




- WB-6055 (side-by-side):
  - •booth (4)
  - •7.5HP top mount dust collectors (2)



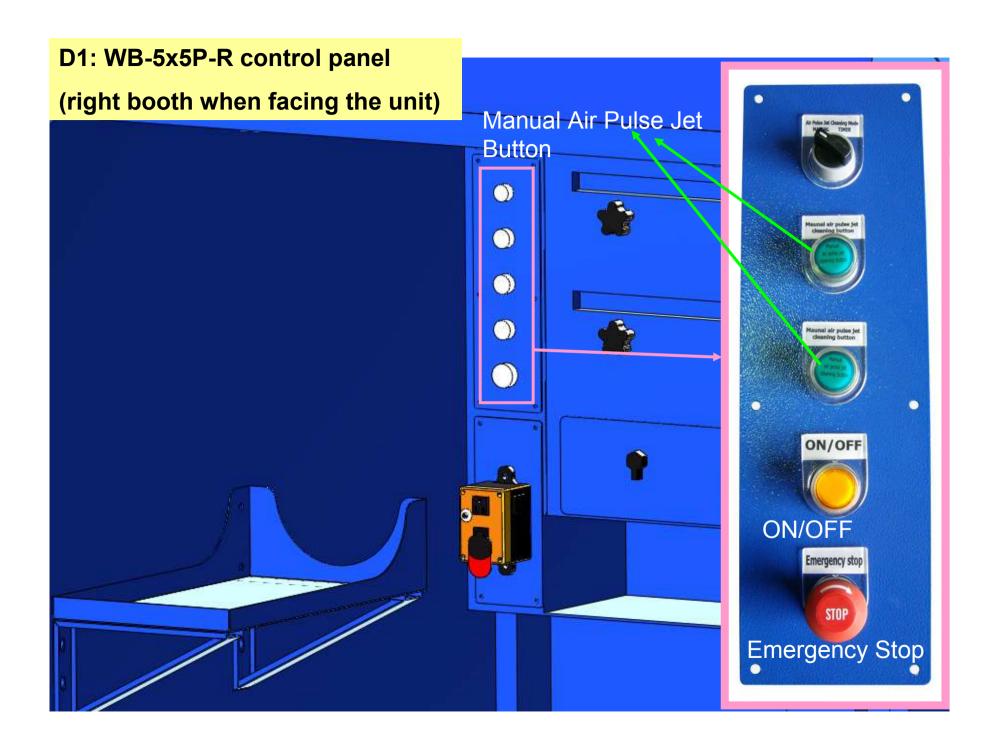
- WB-6055 (back-to-back):
  - •booth (2)
  - •7.5HP top mount dust collectors (1)

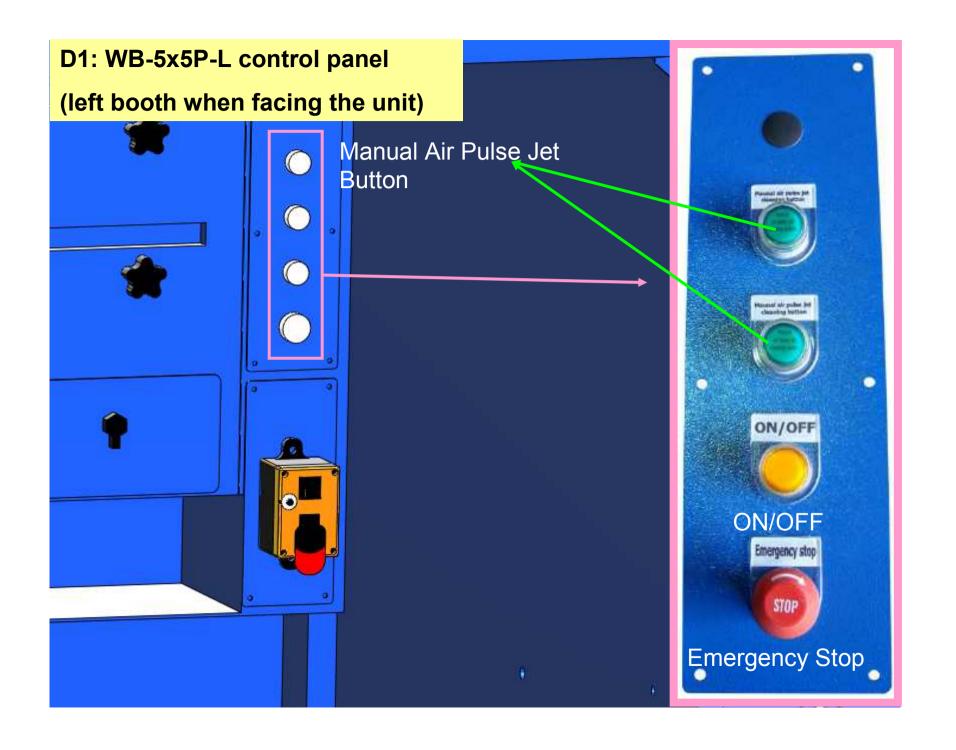


## D: control panels inside the booths

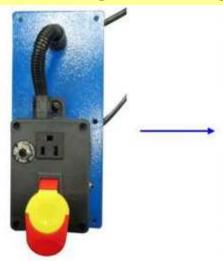








# E: electrical junction box, cable connections of overhead lights and light switch



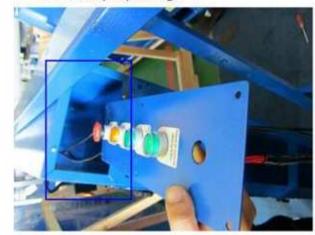
 Take out the light switch from packing. (number: 2 and 4)



 Take out the control panel from packing. (number: 1 and 3)



- Put the light power cord into the hole.
- Have the light power cord go into the wireway blue circled and up through to booth top opening.



 Have the control panel go through the wireway and take out it from the wireway.



 Use the screwdriver to match the Philips Head Screw and lock the light switch on the booth.



 Use the screwdriver to match the Philips Head Screw and lock the control panel on the booth.







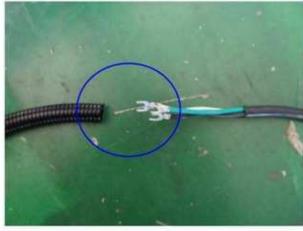
 Take out the corrugated plastic tubing from plastic connection.



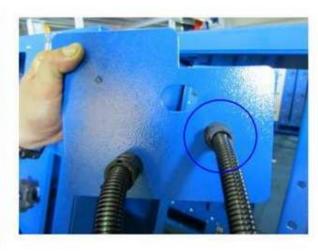
 Have the cord of the light switch go through the iron plate.



 Have the cord of light switch go through the plastic connection.



 Have the cord of light switch go through the plastic tubing.

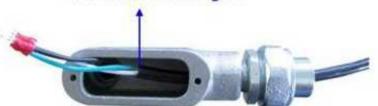


 Lock the plastic tubing into the plastic connection.

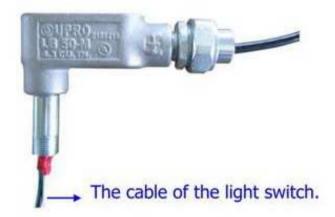
## E1: cable connections of light switch to overhead lights for WB-5x5P



The cable of the light.



 Take out the cord of light from the steel adapter box.

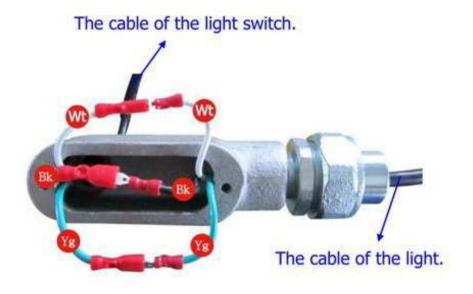


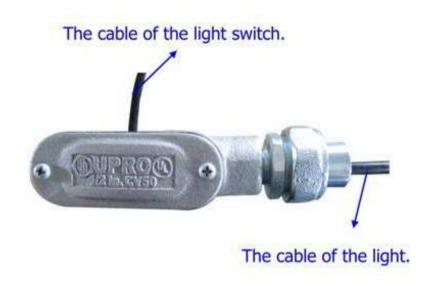
 Have the cord of the light switch go through the tube into the steel adapter box. The cable of the light switch.



The cable of the light.

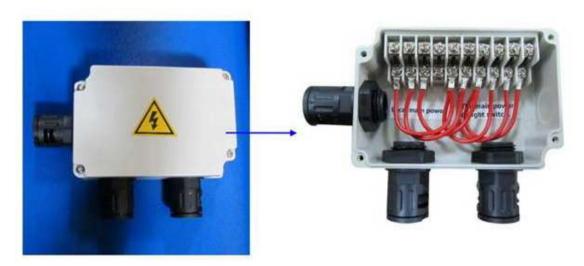
 Take out the cord of the light switch from the steel adapter box.





- Connection the white electrical wire with the white electrical wire.
- Connection the black electrical wire with the black electrical wire.
- Connection the green electrical wire with the green electrical wire.
- Lock the cover of the steel adapter box.

## E2: cable connections of electrical junction box for WB-5x5P



 Open the cover of the electrical junction box.



 Connection the cable with the terminal blocks for the electrical junction box.



 Have the cable go through the plastic connection into the electrical junction box.



 Have the cable go through the plastic connection into the electrical junction box.

## Local main power supply coming in.

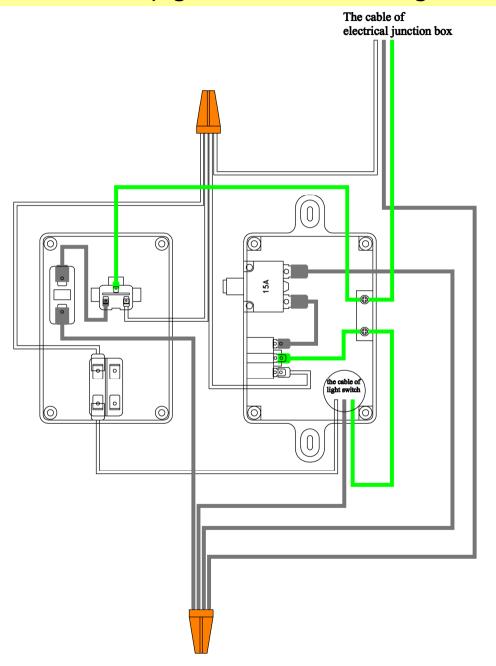


- Connection the cable with the terminal blocks for the electrical junction box.
- Link this set to local main power supply.

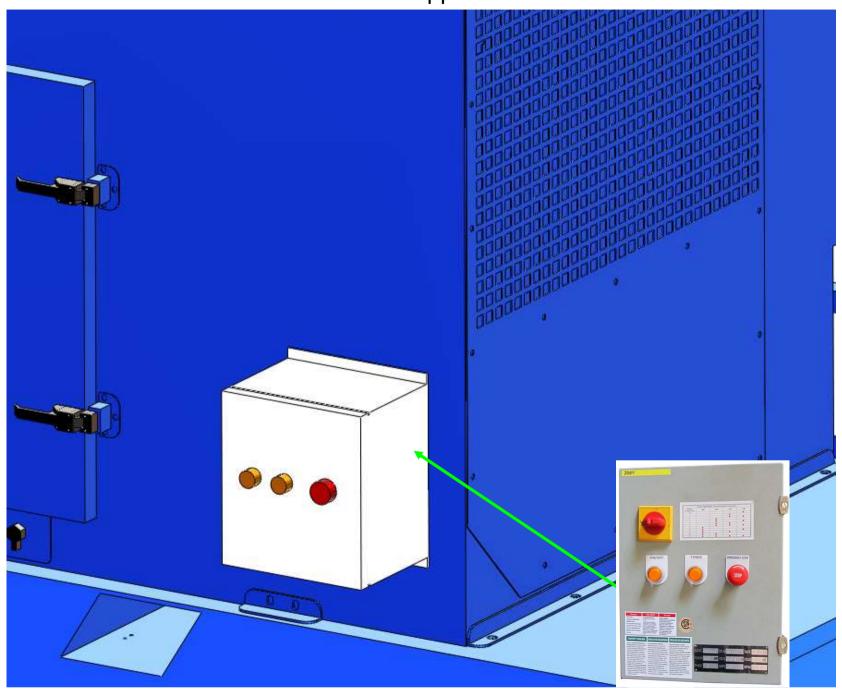


Lock the cover of the electrical junction box.

E3: wirings for light switch and 2-plugs sockets for WB-5x5P-L (left booth when facing the unit) and WB-5x5P-R (right booth when facing the unit)



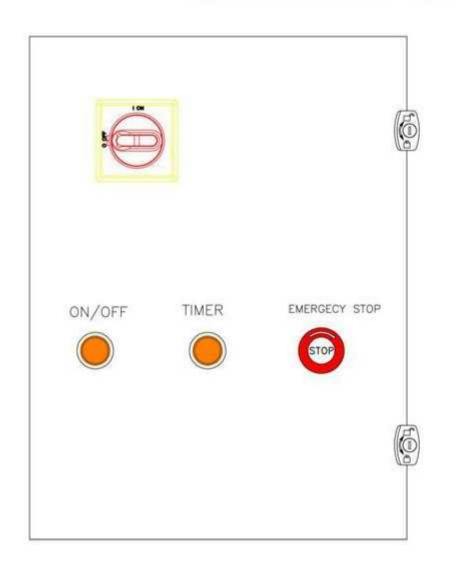
UL approved control box



F: main electrical box wiring for TMC-7-4

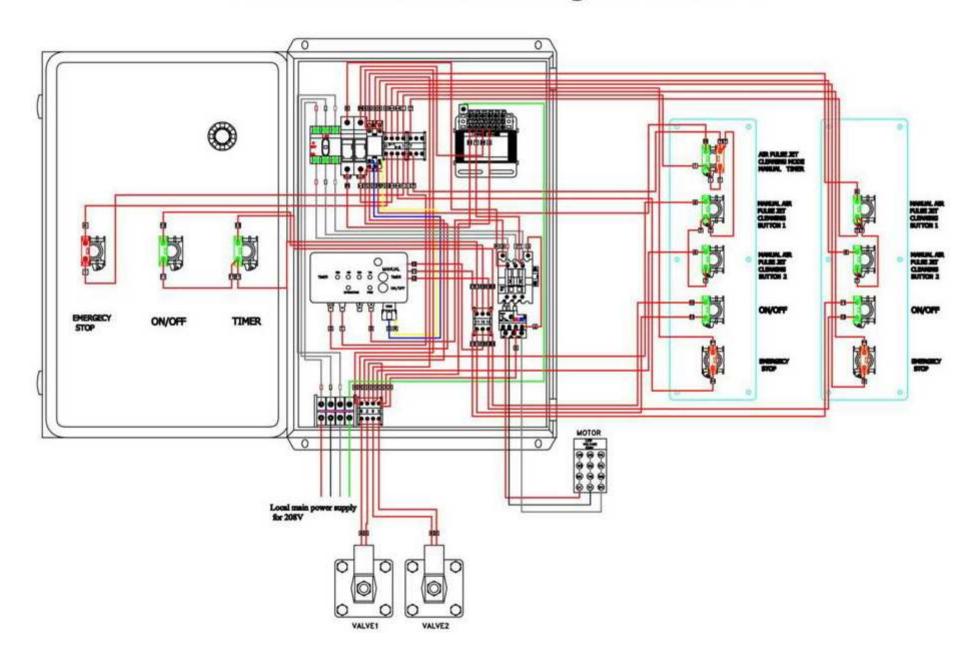
(control box: 7.5HP / 208/415V / 60Hz / 3Ph, connected to 208V)

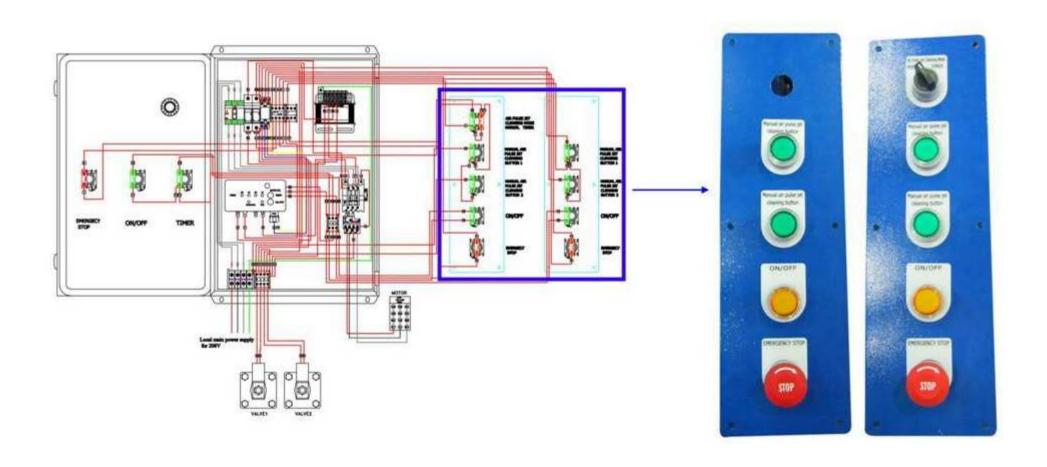
# Main Electrical Box Wiring For TMC-7-4

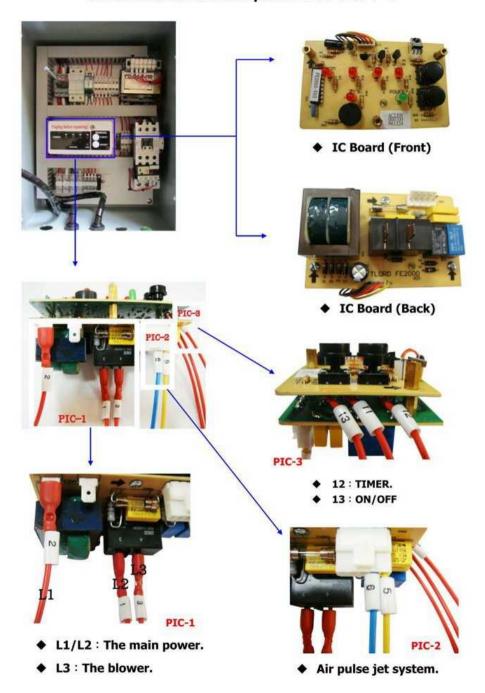


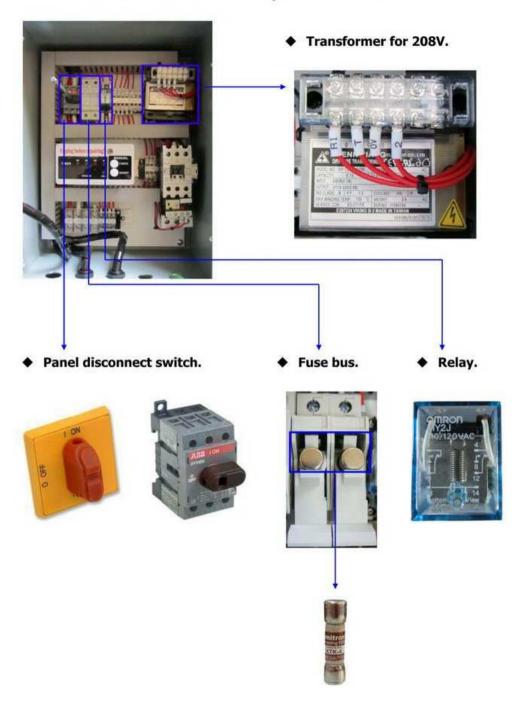


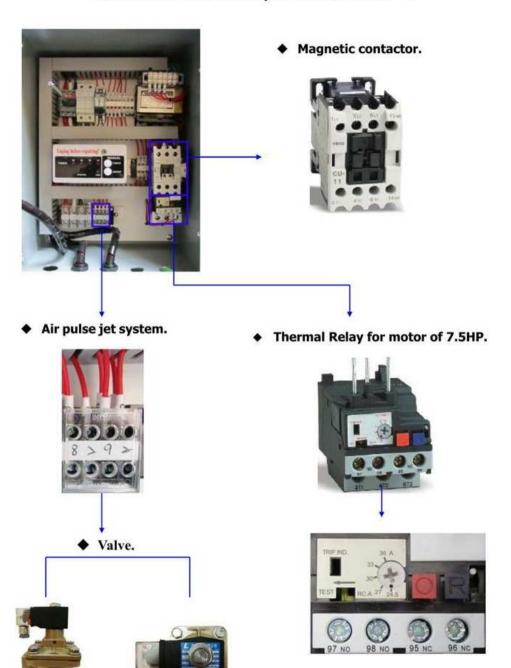
# Main Electrical Box Wiring For TMC-7-4











### **Hardware bags** detailed list:

	Indopenden	t School TMC	7.4 abo	wo MP	605	5 (6	lual booths side	a by side total	2 cotc)
A	Independent School TMC- Fixing Base (left)		# of pack required	2	-003	В	Fixing Base (right)		# of pack required
_	Part Name	Specification	Q'ty	Total		г	Part Name	Specification	Q'ty
1		3/8"*2-1/2"	2	4		1	Hex Screw	3/8"*2-1/2"	2
2		3/8"*3/4"	1	2		2	Hex Screw	3/8"*3/4"	1
3		5/16"*3/4"	î	2		3	Hex Screw	5/16"*3/4"	1
_		3/8"	2	4		4	Lock Nut	3/8"	2
5		3/8"*OD23*2t	5	10		5	Flat Washer	3/8"*OD23*2t	5
_		5/16"*OD23*2t	1	2		6	Flat Washer	5/16"*OD23*2t	1
С	Right Side Pane	# of pack required	2		D	Left Side Par	# of pack required		
	Part Name	Specification	Q'ty	Total		_	Part Name	Specification	Q'ty
1	Half-threaded Screw		8	16		1	Half-threaded Screv		8
2		3/8"	8	16		2	Lock Nut	3/8"	8
3	Flat Washer	3/8"*OD23*2t	16	32		3	Flat Washer	3/8"*OD23*2t	16
E	Middle Panel to Main Set		# of pack required	2		F	Adjustable Ba	# of pack required	
	Part Name	Specification	Q'ty	Total		Г	Part Name	Specification	Q'ty
1	Half-threaded Screw	3/8"*5-1/2"	10	20		1	Hex Screw	5/16"*3/4"	8
2	Lock Nut	3/8"	10	20		2	Flat Washer	5/16"*OD18*2t	8
3	Flat Washer	3/8"*OD23*2t	20	40		_	***************************************	•	
K	Left Side Panel Top Joints		# of pack required	8		М	Right Side Pa	# of pack required	
_	Part Name	Specification	Q'ty	Total			Part Name	Specification	Q'ty
1		5/16"*3/4"	2	16		1	Hex Screw	5/16"*3/4"	2
2	Flat Washer	5/16"*OD23*2t	2	16		2	Flat Washer	5/16"*OD23*2t	2
0	Curtain Rod		# of pack required	8		R	Adjacence of the T part) and Upper F Mod	# of pack required	
	Part Name	Specification	Q'ty	Total			Part Name	Specification	Q'ty
1	Hex Screw	1/4"*3/4"	4	32		1	Hex Screw	5/16"*3/4"	38
2	Flat Washer	1/4"*OD19*2t	4	32		2	Hex Nut	5/16"	38
				9		3	Flat Washer	5/16"*OD23*2t	76
S	Adjacence of the Top Hood Draft (back part) and Upper Part of the Backdraft Module - 2		# of pack required	2		T	Adjacence of the Top Hood Draft (back part) and Upper Part of the Backdraft Module - 3		# of pack required
	Part Name	Specification	Q'ty	Total			Part Name	Specification	Q'ty
1		5/16"*3/4"	10	20		1	Hex Screw	5/16"*3/4"	35
2	Flat Washer	5/16"*OD23*2t	10	20		2	Flat Washer	5/16"*OD23*2t	35
٧	CO2 Bracket		# of pack required	4		х	Adjacence of the Backdra	# of pack required	
	Part Name	Specification	Q'ty	Total			Part Name	Specification	Q'ty
1		5/16"*3/4"	7	28		1	Hex Screw	5/16"*3/4"	24
2	Flat Washer	5/16"*OD23*2t	7	28		2	Flat Washer	5/16"*OD23*2t	24
G	Panels Back-to-Back Connections		# of pack required	1					
	Part Name	Specification	Q'ty	Total					
1	Half-threaded Screw	3/8"*9"	12	12					

2 Lock Nut

3 Flat Washer

3/8"

12

3/8"\*OD23\*2t 24

12

2

Total

2

4

10

2

Total

16

16

32

Total

32

32

16

16

Total

76

76

152

2

70

70

Total

48