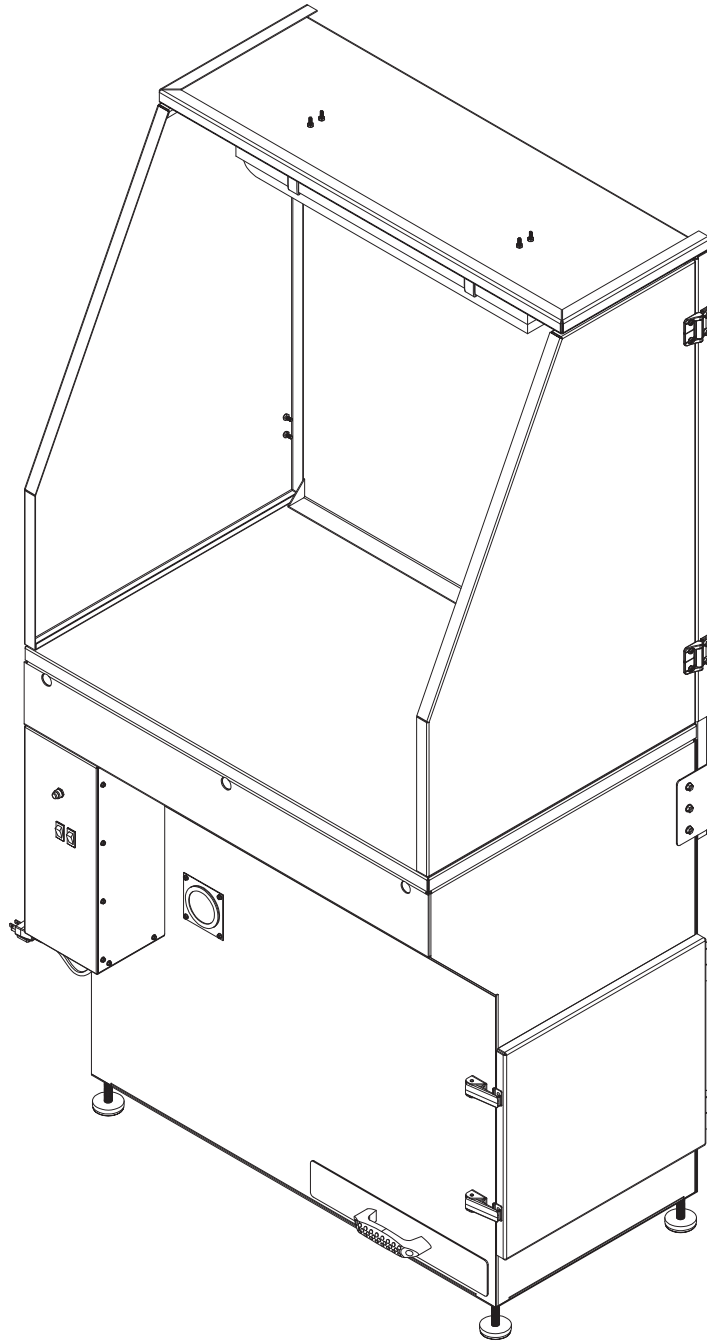




## Maverick 3200 Series Installation and Operation Manual



### **Important:**

This manual contains specific cautionary statements relative to worker safety. Read this manual thoroughly and follow as directed. It is impossible to list all the hazards of dust control equipment. All persons involved with the equipment or systems should be instructed how to operate in a safe manner.

**WARNINGS:**

**⚠ All electrical work must be done by a qualified electrician according to local, state and national codes.**

**⚠ CAUTION: Installation can cause exposure to live components. Disconnect electrical power before proceeding with installation. Proper Lock Out / Tag Out procedures should be used.**

**Improper installation or operation of this equipment can cause damage to equipment and / or injury to personnel. The installation/operation manual must be read and followed in its entirety.**

**SPECIFICATIONS:**

Input Voltage:	120 VAC 1-Phase
Motor:	3/4 HP TEFC
Max Current:	10.0 Amps
Filter Area:	95-142 square feet (media dependent)
Load Capacity:	500 pounds
Air Flow:	1800 CFM
Capture Velocity:	250 FPM average @ 1" above work surface.
Noise level:	79 dBA at operator 74 dBA at operator with silencer /HEPA
Overall Dimensions:	Base table: 36H x 41W x 25D With shields: 73H x 41W x 25D

**COMPRESSED AIR REQUIREMENTS:**

3/4" Air line with clean, dry compressed air regulated to 80-90 psi max is required for proper operation of the Shockwave filter cleaning system. It is recommended that a pressure regulator and coalescing filter be installed between the compressed air source and the inlet to the down draft table.

**EQUIPMENT/TOOLS REQUIRED:**

- Standard wrenches
- Forklift
- Pipe wrench
- Cordless drill

**INSTALLATION:**

1. Inspect the Maverick for any visible damage that may have occurred during shipment. Note any damage on the packing slip.
2. Uncrate the unit. Use caution not to damage the paint while dismantling the crate.
3. Remove any options ordered from the skid.
4. Using a forklift, lift the unit off of the skid. Carefully place the downdraft table into its location.
5. Connect compressed air supply to the 3/4" NPT nipple on the unit.
6. Plug the unit into a 120V receptacle rated for a minimum of 15Amps.
7. Mount any optional accessories per instructions if ordered.

**OPERATION:**

- To start the unit, toggle the switch located on the front of the unit to the ON position. To stop the unit, toggle the switch to the OFF position.
- If equipped: To turn the light on toggle the switch located on the front of the unit to the ON position. To turn the light off, toggle the switch to the OFF position.
- To clean filters depress and hold down the pulse push-button for 2 seconds at least once per hour, and once after shutdown.
- Units equipped with auto-pulse do not require manual activation of the pulse system while the unit is running. The filters will clean automatically for 2 seconds, every 45 seconds that the unit is running. It is recommended that at least one manual pulse is completed after the unit is turned off.

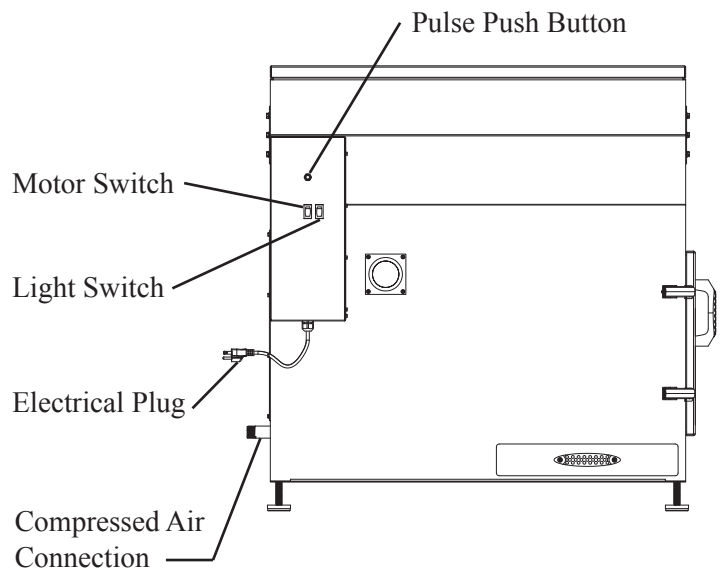
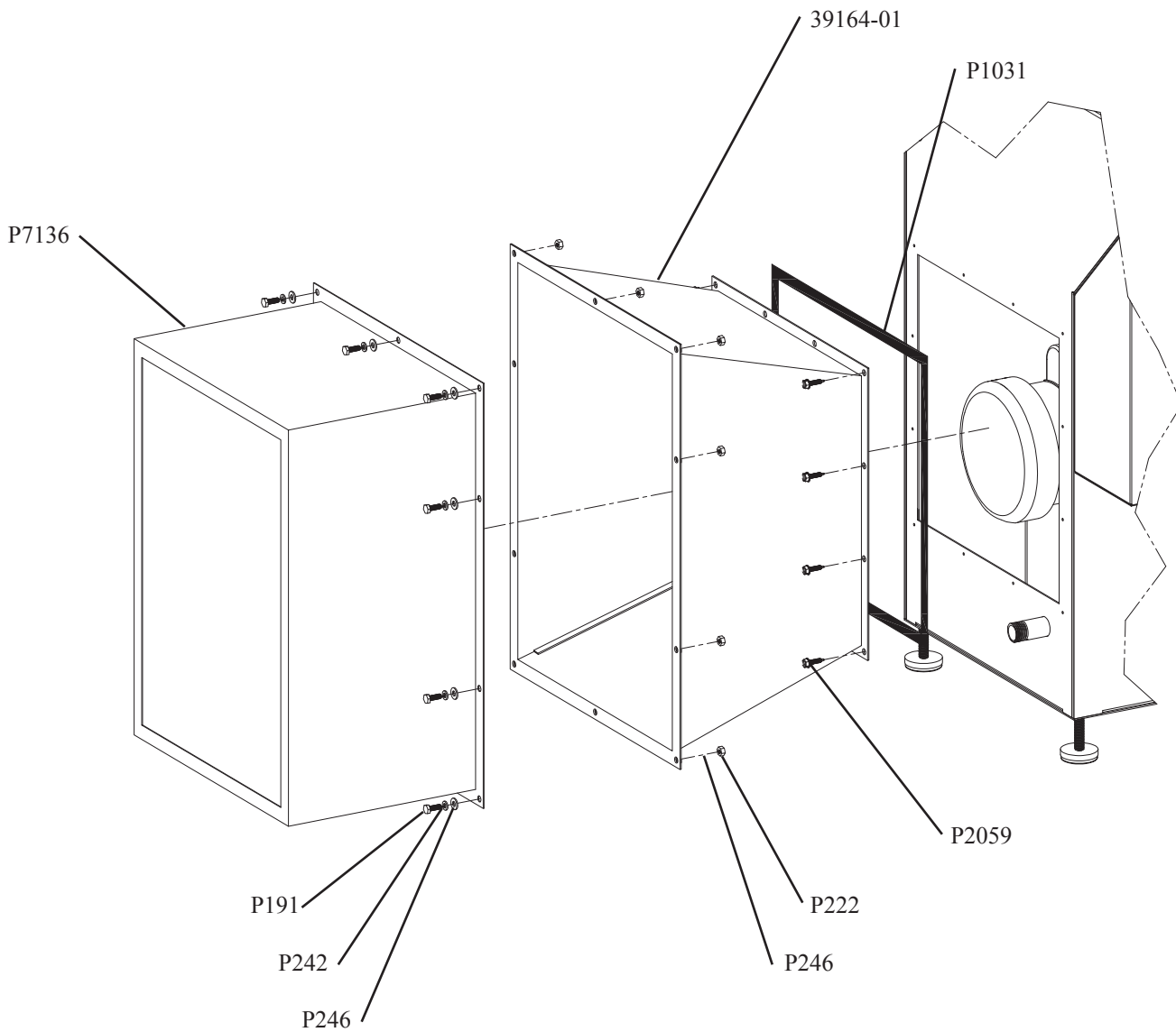


FIG 1.

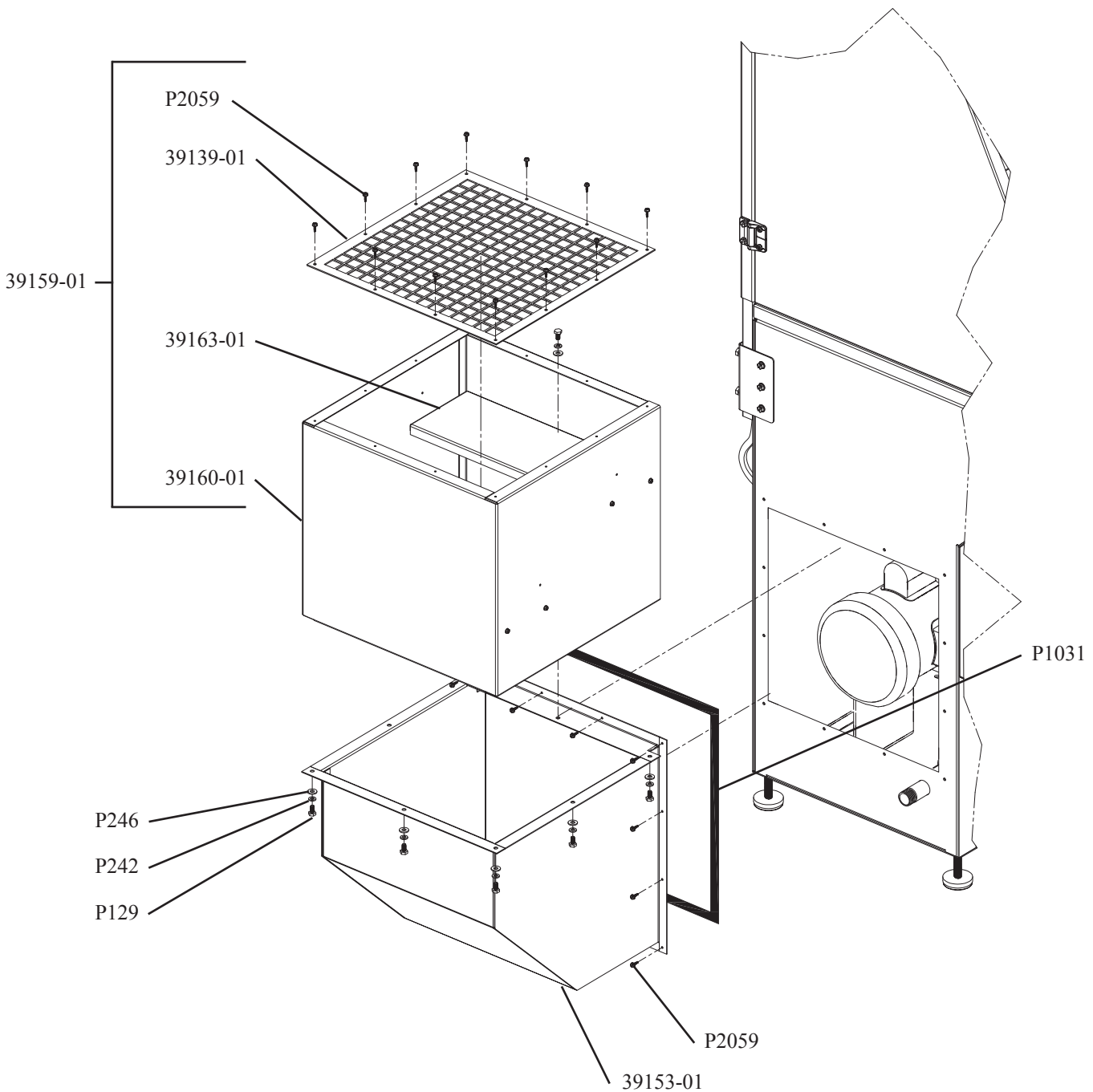
## OPTIONAL HEPA AFTER-FILTER ASSEMBLY INSTRUCTIONS

1. Remove all items from packaging.
2. Apply foam (P1031) to small end of filter transition.
3. Using supplied sheet metal screws (P2059) align and attach filter transition to pre-drilled holes in the unit.
4. Using supplied bolts (P191) and associated hardware (P222, P242, P246) bolt the HEPA filter to the filter transition.



## OPTIONAL SILENCER ASSEMBLY INSTRUCTIONS

1. Remove all items from packaging.
2. Apply foam (P1031) to the of transition as shown.
3. Using supplied sheet metal screws (P2059) align and attach transition to pre-drilled holes in the unit.
4. Using supplied bolts (P129) and associated hardware (P242, P246) bolt the silencer filter to the transition.

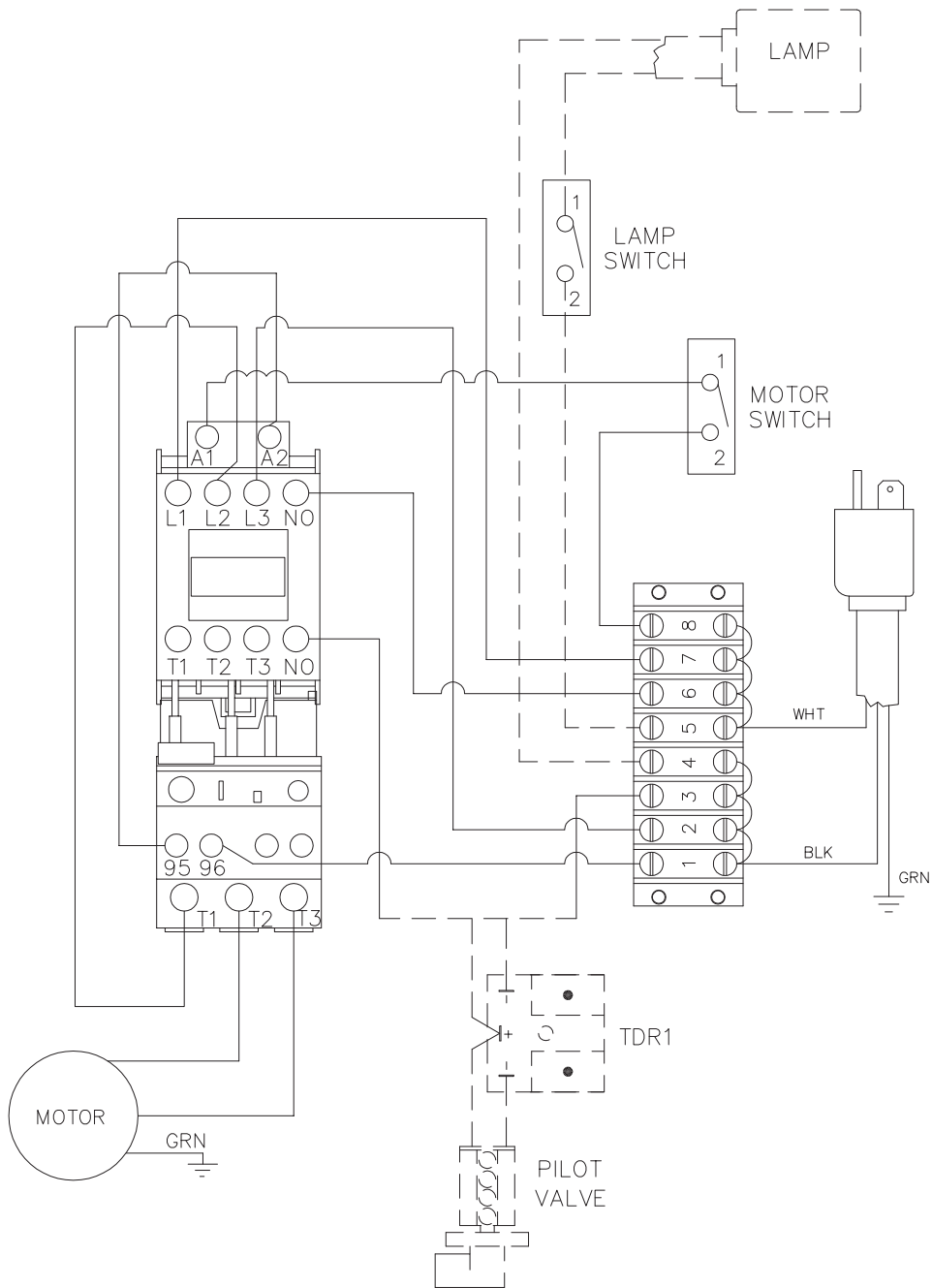


# Maverick WIRING DIAGRAM

## Maverick

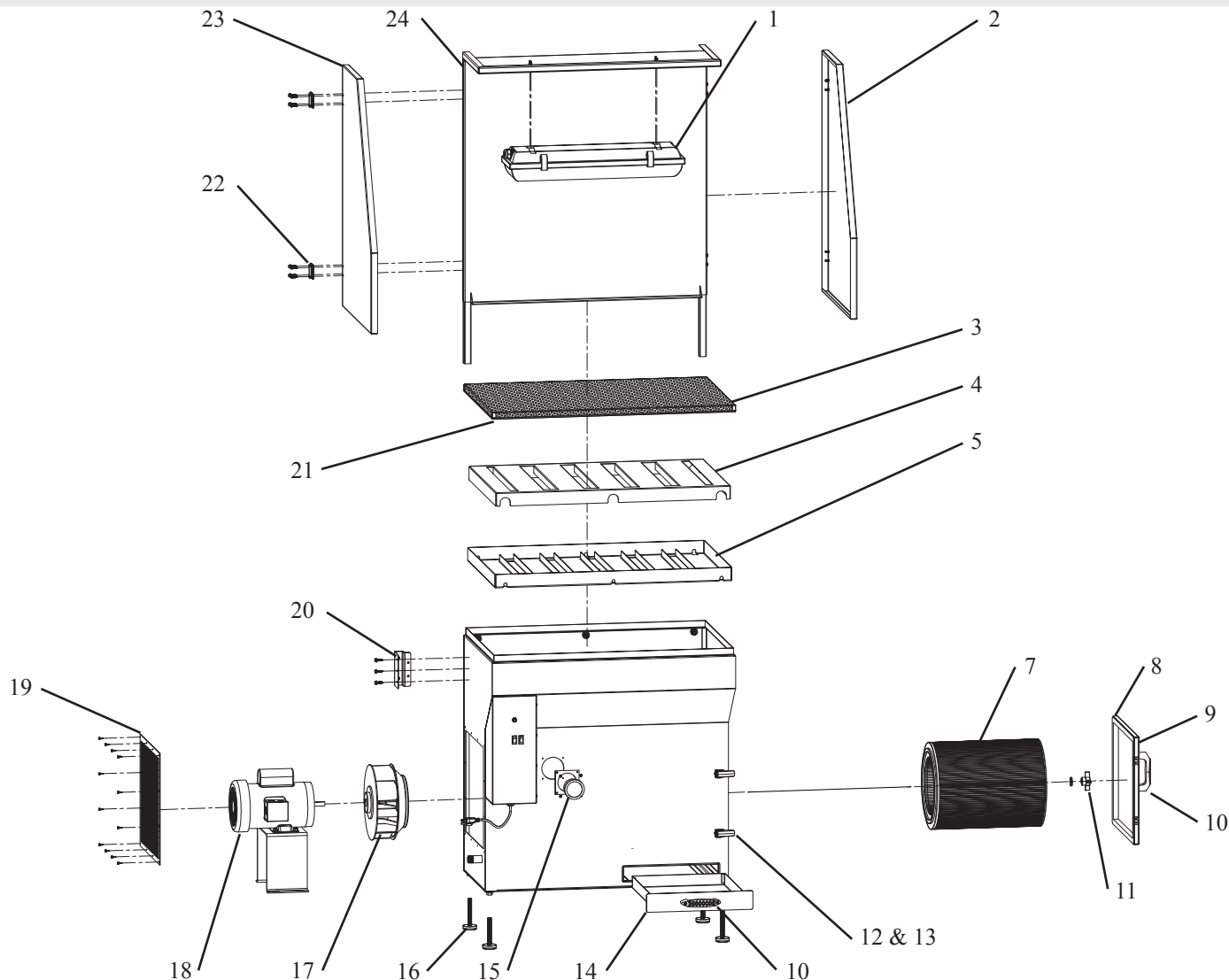
**VOLTAGE** 120V      **FREQUENCY** 60 HZ.      **MAX CURRENT** 10.0 AMPS

**CAUTION: DISCONNECT POWER TO UNIT PRIOR TO SERVICING OR INSTALLATION OF PARTS**



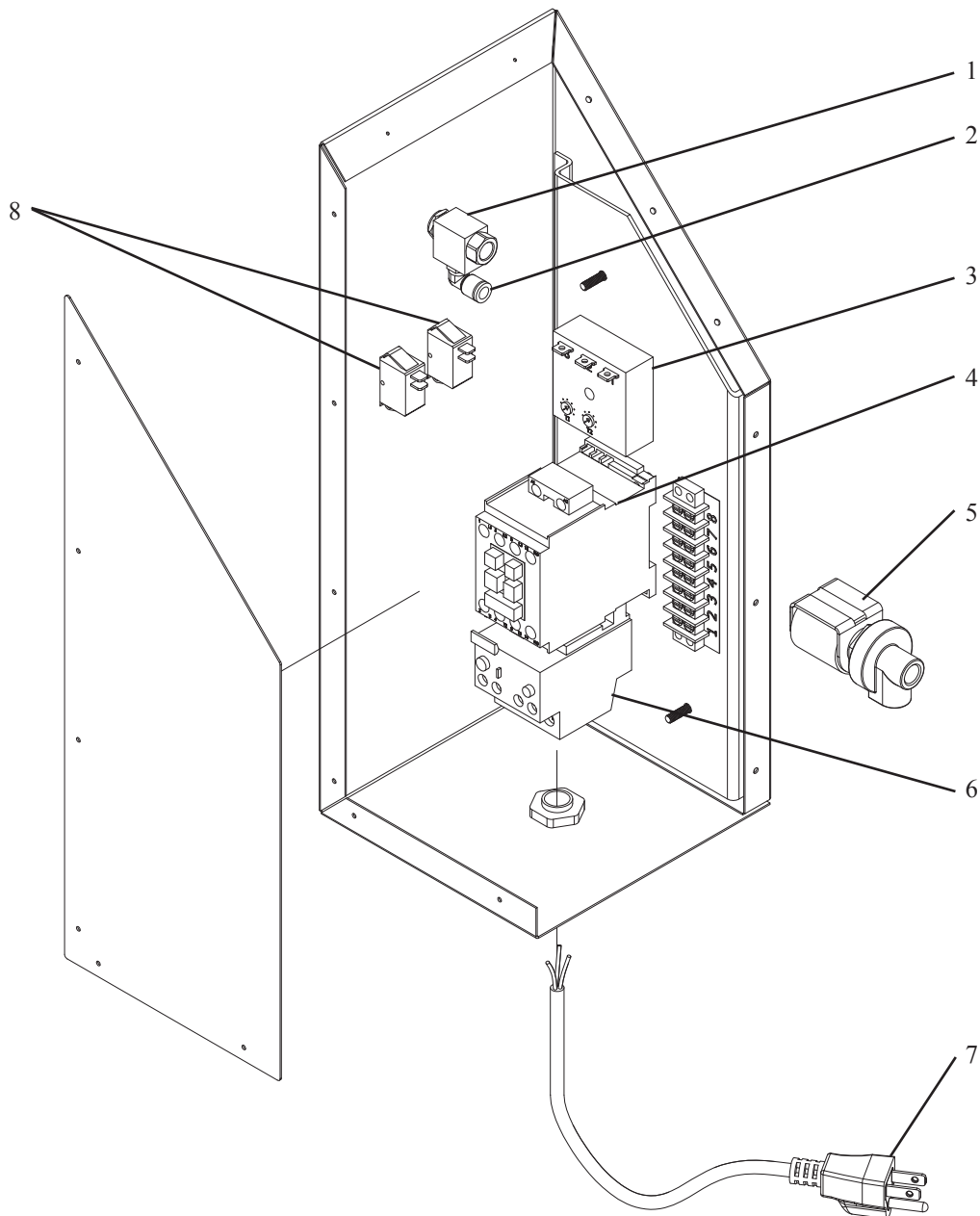
--- OPTIONAL WIRING

P7128-4



Item	Part No.	Description
1.	P7170	2' Dust Proof LED Light Fixture
2.	39133-02	Side Shield - Right
3.	39108-01	Perforated Table Top
	P7134	Rubber Work Mat
4.	39127-01	Top Baffle
5.	39125-01	Bottom Baffle
7.	P7402RM	80/20 Cartridge Filter
	P7407RM	100% Spunbond Cartridge Filter
	P7417NM	Nano-Max Cartridge Filter
8.	P7109	Lift Off Hinge
9.	39136-01	Access Door
10.	P7108	Handle
11.	P3649	4-Prong Knob
12.	P7106	Under Center Latch

Item	Part No.	Description
13.	P7107	Latch Catch
14.	39120-01	Dust Drawer Assembly
15.	P2221	0-5" Mini-Helic gauge
16.	P7102	Leveling Leg
	P2334	3" Swivel Caster
17.	P7124	Impeller Wheel
18.	P7122	3/4HP Motor, 120V
19.	39139-01	Exhaust Grille
20.	39110-01	Shield Bracket
21.	P1719	Edge Guard
22.	P7105	Hinge
23.	39133-01	Side Shield - Left
24.	39130-01	Back/Top Shield
N/S	P2075	Diaphragm Valve



Item	Part No.	Description
1.	P2766	Push Button Air Valve
2.	P3735	1/4" Elbow Preslock Fitting
3.	P2922	Auto-Pulse Timer
4.	P3910	Motor Starter
5.	P3118	Pilot Valve

Item	Part No.	Description
6.	P3915	Overload
7.	P1363	10', 15A Cord Set
8.	P2219	On / Off Switch

### TROUBLE SHOOTING CHART

CAUTION: BEFORE DISASSEMBLING THE UNIT OR DOING ANY INSPECTING OF THE PARTS, MAKE CERTAIN THAT THE POWER HAS BEEN CUT OFF AND THE BLOWER HAS COME TO A COMPLETE STOP. NEVER RUN THE UNIT WITH THE ACCESS DOOR OPEN OR REMOVED.

PROBLEM	POSSIBLE CAUSE	REMEDY
Unit fails to start	No incoming power  Blown breaker or fuse  Primary voltage to motor contactor is below 10% tolerance  Burned out motor  Tripped overload (3 Phase)  Thermal trip (120V)	Check line voltage  Replace fuse or throw breaker  Take steps to increase voltage to primary  Replace motor  Reset overload protector  Reset thermal trip
Unit runs slowly or inadequate capture velocity	Wired for wrong voltage or improper rotation  Dirty filters  Internal obstruction	Check input voltage Check wiring diagram Switch L1 & L2 (3-phase only)  Service / Replace filters  Check if damper is open Check inlet for blockage Check hoses for proper connection Check hoses for holes
Vibration	Loose mounting bolts  Foreign objects in blower  Dirty disposable filters	Tighten bolts  Remove debris from blower  Service or replace filters
Unit runs for a short period of time and stops	Exhaust restrictor plate removed  Incorrect extension cord size (120V)	Re-install Restrictor plate  Plug directly into outlet Use a cord rated to 20 Amps
Stronger resistance during rotation of the arm	Lack of grease in the rotating socket	Grease the rotating socket
Arm will not stay where it is placed	The joints are loose	Tighten the joints



**Serial Number:**

**Supply Voltage:**

**Date Installed:**

**Installed By:**

**Notes:**