

O X Y G E N 8

VENTUM LITE

Installation Manual

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1.0 GENERAL INFORMATION

This manual includes important instructions for safe connection of the Energy Recovery Ventilator (ERV). Before connecting the unit, please read carefully and follow the instructions.

The manufacturer reserves the right to make changes, including changes in the technical documentation, without previous notification. Please keep this manual for future reference. Consider this manual a permanent part of the product.

This manual will show the manufacturers' recommended installation method. Please note that local codes and regulations may override these recommendations. The installation must follow local codes and standards.

The National Electric Code (NEC), the National Fire Protection Agency (NFPA), and the Canadian Electrical Code (CEC) must be followed. Installation of this product must be performed by a qualified and accredited professional in conformance with local and national codes, standards and licensing requirements.



Caution: This sign indicates a potentially hazardous situation, which may result in minor or moderate injury if not avoided. It may also alert against unsafe practices.



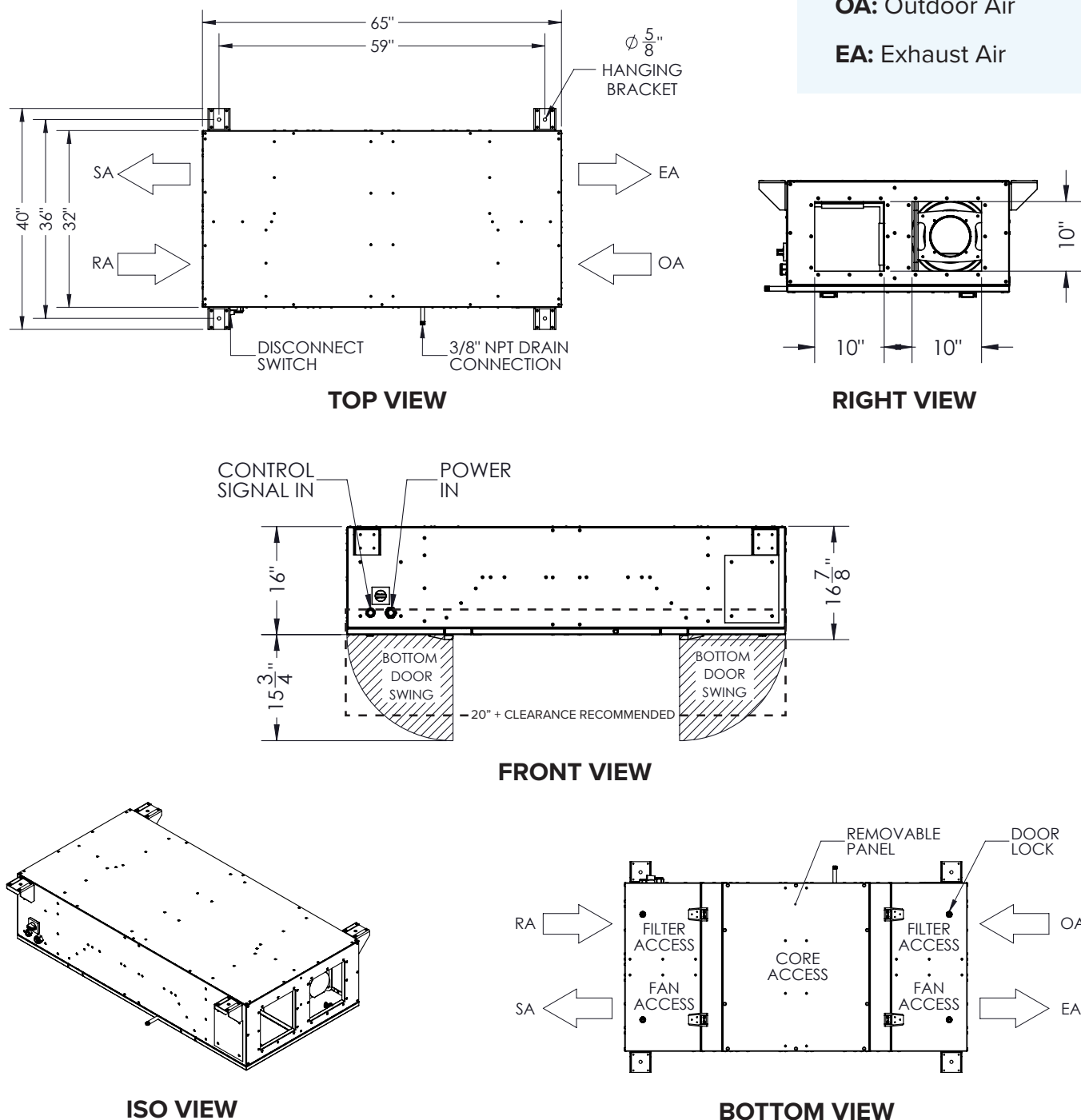
Warning: This sign indicates a situation that may result in equipment or property damage accidents.



Danger: This sign indicates a potentially hazardous situation, which could result in death or serious injury if not avoided.

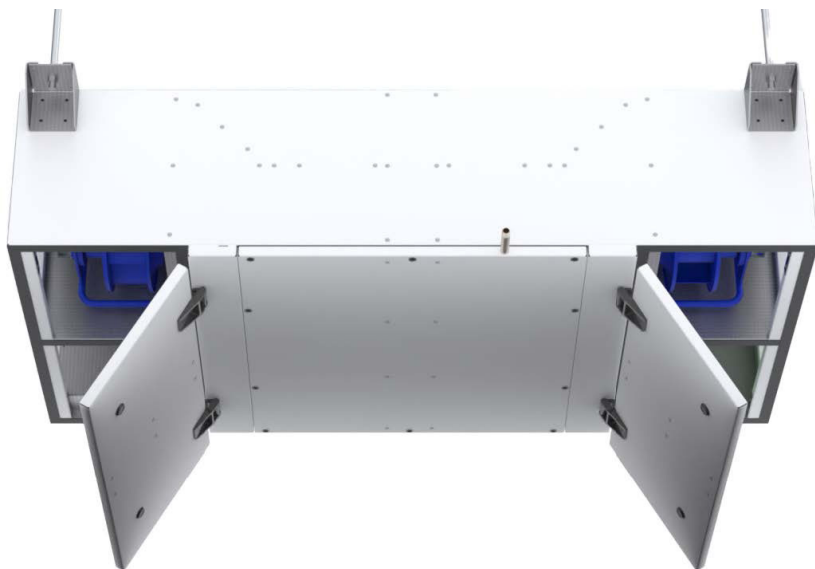
2.0 UNIT SPECIFICATIONS

2.1 Dimensions



Note: 36" of clearance must be maintained perpendicular to the electrical box as per the national electric code (NEC). Unit dimensions are shown in inches. Overall unit dimensions are subject to change without notice

2.2 Access Requirements



Ceiling-mounted unit with doors open



Door with removed hinge pin

Access the fan and filter through the tool access bottom swing doors. Access the electrical enclosure through the RA filter section. Access the core by removing the bottom panel socked screws.

2.2 Lifting Requirements

Ventum Lite units can be lifted by mounting angles or under the removable bottom panel. Necessary care must be taken lifting from bottom panel to avoid scratching of external surfaces.

3.0 INSTALLATION

3.1 Unwrapping the Product

When removing the shrink wrap, be cautious with knives and sharp tools to prevent scratching the paint. The HMI, temperature + humidity sensor, external duct pressure sensor and all other optional field components will be found in the electrical box or fan compartment. They are secured there for transport and to easily find them on the job site. Pallets are two-way entry; therefore, fork extenders or 8-foot forks must be used when moving a palletized unit.

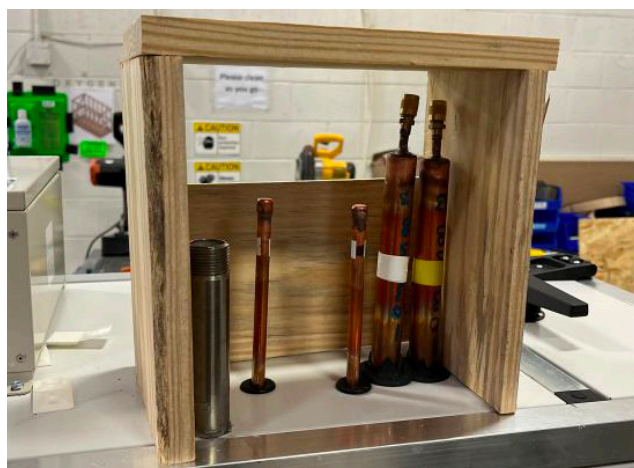
Units are palletized and protected by a skeletal crate of heat-treated wood. These crates are constructed using nails; therefore, to unpack the unit, carefully use a crowbar or reciprocating saw to detach each panel. Additional bracing used to prevent the unit from sliding on the pallet must also be removed.

Once external packaging is removed, carefully remove the stretch wrap and cardboard covering the unit. It is better to use scissors rather than a knife to avoid scratching the unit.

External Pipes are protected by wood boxes that are secured with Poly Strapping and must also be removed. If a unit has a baserail, it will be screwed down directly to the pallet.



Packaged Unit



External Pipes Protected by Wood Boxes

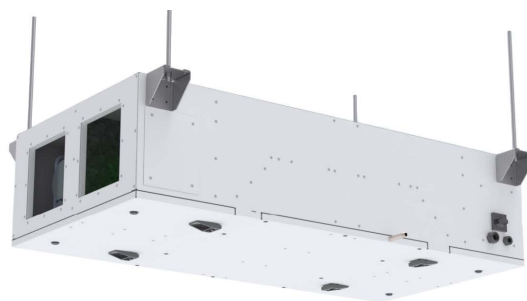
3.2 Weights.

| MODEL | FAN LBS. | CORE LBS. | TOTAL WEIGHT LBS. |
|-------|----------|-----------|-------------------|
| H04 | 27 | 15 | 325 |

3.3 Mounting

Ventum Lite is available exclusively for ceiling-hung horizontal applications. Units come standard with factory mounted brackets.

The hole in the outer brackets are designed for a ½" threaded rod to hang the units by.



Ceiling Mounted Unit

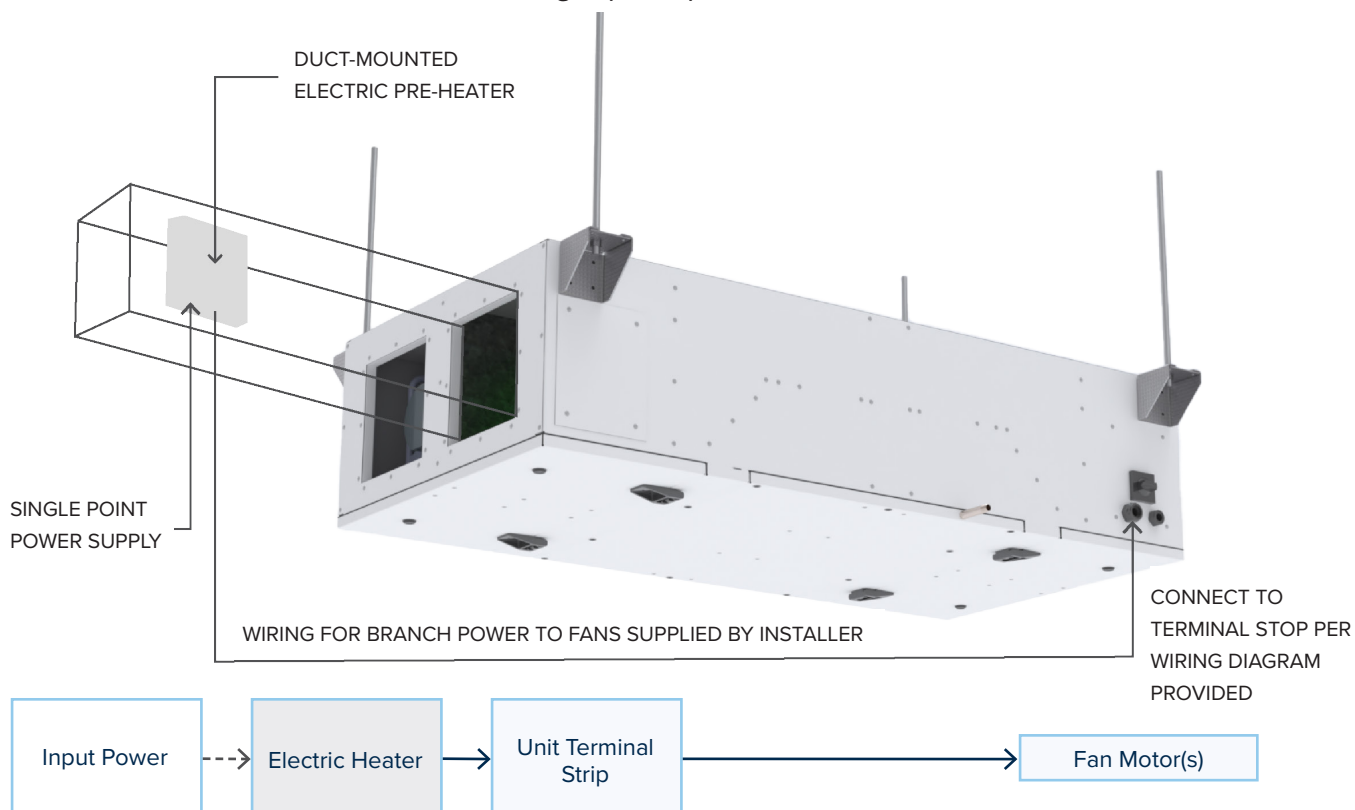
4.0 ELECTRICAL

4.1 General Electrical

| MODEL | NOM. V. | PHASE | MOTOR (KW) | SA FAN QTY. | SA FAN FLA | SA FAN FLA TOTAL | RA FAN QTY. | RA FAN FLA | RA FAN FLA TOTAL | FLA | MCA | MROPD | RFS |
|-------|---------|-------|------------|-------------|------------|------------------|-------------|------------|------------------|------|------|-------|-----|
| H04 | 208/240 | 1 | 0.53 | 1 | 3.50 | 3.50 | 1 | 3.50 | 3.50 | 7.00 | 7.88 | 11.38 | 15A |

4.2 DOAS/ERV and Single Point Power Electric Heater

Electric pre-heaters come in standard duct-mounted sizes and capacities where the fan power comes off as a branch circuit from this single-point power source.

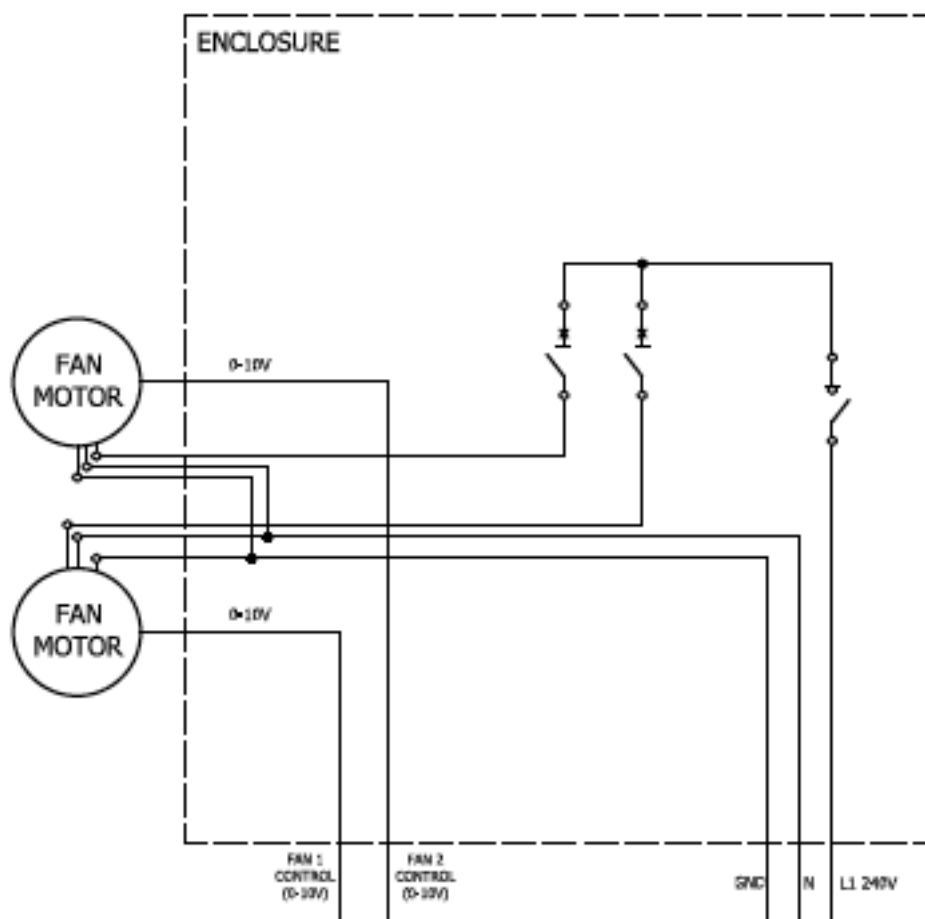


4.2 H04 DATA TABLE

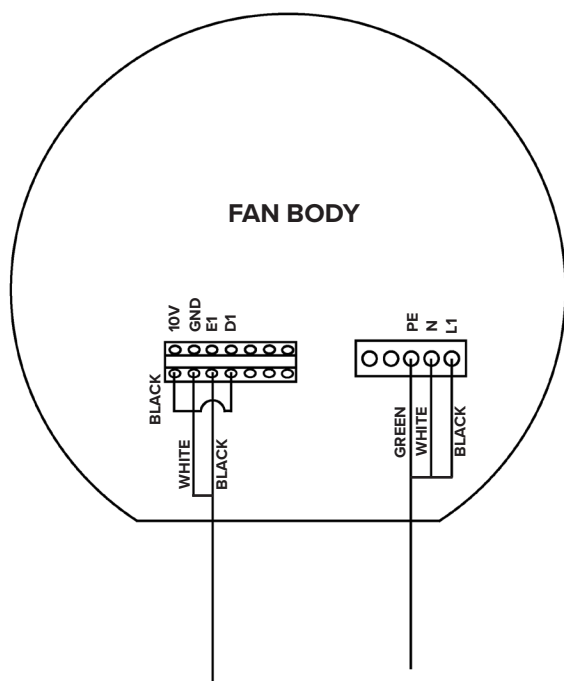
4.3 Single-Phase Lite Electric Hook Up (2 Fans)

Attention: Single phase electrical consists of single Line, Neutral and Ground OR two hot lines and Ground (Line 1, Line 2 and Ground) based on voltage availability. Dual 120V feeds will not work.

1 phase, 3 wire, 240V -10% – +15%, 60Hz

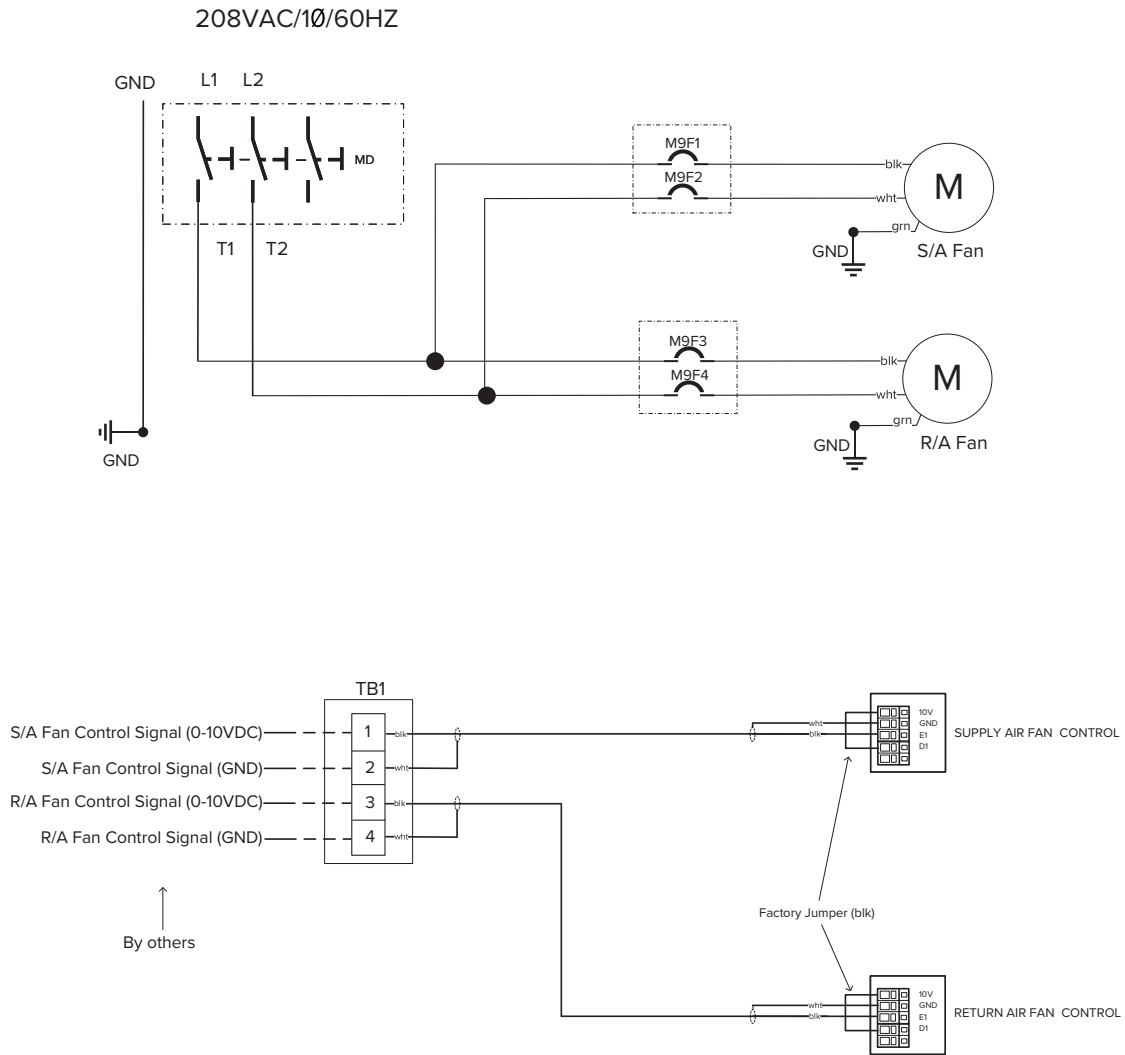


4.4 Fan Connection - Single Phase



4.5 Ventum Lite 208V, Single Phase

Wiring Diagram

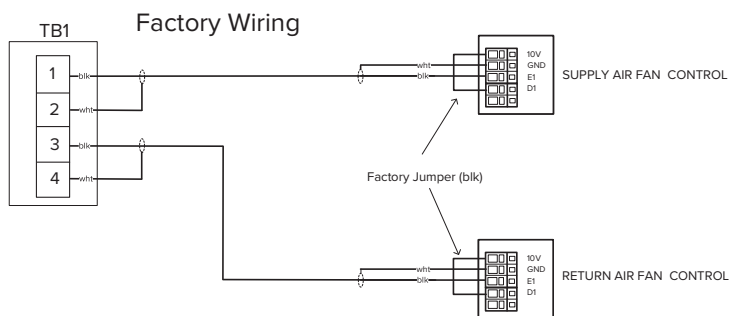


Legend

————— Factory wired

- - - - - Field wiring required

| | | | |
|-----------|------------|----------------------------|----------------|
| DRAWN BY: | JJ | O X Y G E N 8 | |
| APPROVED: | AS | DRAWING TITLE: | |
| REVISION: | 1.0 | TERMINAL STRIP/208/1 PHASE | |
| DATE: | 2022-04-13 | DRAWING NUMBER: | 028_05_0060_01 |
| | | SCALE: | NTS |
| | | SIZE: | 8" x 11.5" |
| | | SHEET: | 1 of 1 |



| | |
|-----------------|-----------------------|
| _____ | Factory wired |
| _____ - - - - - | Field wiring required |
| _____ | Enclosed unit |

| | | | |
|---------------------|--|---|-----------------------------|
| DRAWN BY: JJ | | O X Y G E N 8 | |
| APPROVED: AS | | DRAWING TITLE: SPP PRE-HEATER TERMINAL STRIP 208/1 PHASE | |
| REVISION: 1.0 | | DRAWING NUMBER: 028_05_0065_01 | |
| DATE: 2022-06-14 | | CONTROLLER: N/A | |
| | | SCALE: NTS | SHEET: 8" x 11.5" 1 of 1 |