FOR YOUR SAFETY

If you smell gas:

- 1. Open windows.
- 2. Don't touch electrical switches.
- 3. Extinguish any open flames.
- 4. Immediately call your gas supplier.

RECEIVING AND INSPECTION

Upon receiving unit, check for any interior and exterior damage, and if found, report it immediately to the carrier. Also, check that all accessory items are accounted for and are damage free. Turn the blower wheel by hand to verify free rotation and check the damper (if supplied) for free operation.

WARNING!!

Improper installation, adjustment, alteration, service, or maintenance can cause property damage, injury or even death. Read the installation, operating and maintenance instructions thoroughly before installing or servicing this equipment. ALWAYS disconnect power and turn main gas valve off prior to working on this equipment.

NOTE TO INSTALLER

This manual should be reviewed with the customer and left with the equipment user.



ITEMS SHIPPED SEPARATELY

- Drain Trap Components
- Sheet Metal Screws
- Nuts and Bolts

1

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- 1/4" x 1" gray gasketing
- Intake Hood (outdoor installations)
- Equipment Legs (outdoor installations)
- Hanging Cradles (indoor installations)
- 3-way water solenoid

GASKETING

Apply the standard 1/4" x 1" gray gasketing around the perimeter of the smaller size TK Unit.



ALIGN UNITS

Align the smaller Make-Up Air (MUA) unit and the larger evaporative cooling module next to each other so that the bolt holes line-up (follow airflow arrows as labeled on the unit for proper airflow direction). Use the appropriate hole locations to bolt the two units together.

4 ADAPTER PLATE

Use self-tapping sheet metal screws (shipped loose) to drill through and secure the perimeter of the smaller TK Unit to the adapter plate. **Note:** *There are no prepunched holes for this purpose. A screw should be placed approximately every 4-5" in order to fully compress the gasket between the two modules.*



UNIT ASSEMBLY

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Screw intake hood (outdoor installations) to evaporative cooling module via flange around intake hood using sheet metal screws shipped loose with the unit.

Attached adjustable legs (outdoor installations) using sheet metal screws shipped loose with the unit. These adjustable legs are used to support and level the front end of the evaporative cooling module.

Following Figure 1 – Assembly as general guideline for unit assembly.



PLUMBING

6

There are two field plumbing connections required for proper evaporative cooler operation. It is recommended that all plumbing connections be sealed with Teflon tape or pipe dope. Use care not to contaminate the interior surfaces of the water lines when plumbing the unit, as small particulate can clog the orifices of the spray nozzles.

The P-Trap drain should be attached underneath the cooler (hardware is provided and drain is installed). **Note:** The trap is important for two reasons. First, it can be piped to drain in the most convenient area. Second, it keeps air from being drawn through the drain hole in the bottom of the pan, impeding drainage

Pipe the main water supply line to quick seal on the bottom of the unit. Install a strainer with sediment trap on the water inlet. Note: Minimum pressure for optimal performance is 30 PSI. Maximum pressure should not exceed 50 PSI.

*It is highly recommended that a watersoftener be installed up-stream of the unit to maintain a water softness level less than 1 GPG (Grains Per Gallon) or less than 17 PPM (Parts Per Million). This will prevent scale build-up in the unit and extend media life.

TK Series EVAP System Quick Start Instructions



FREEZE PROTECTION

A 3-way water solenoid is provided (6*); containing a normally open and a normally closed valve and should be installed below the roof line and be wired and piped as shown to the right.

Additional details on how to install this 3way solenoid valve is shown below in Figure 2 and included in the Component Detail section (page 17) of the EVAP manual.

Figure 2 – 3-way Solenoid Valve



Note: It is the responsibility of the installer to ensure the 3-way solenoid valve is installed under the roofline on the water-line upstream of the unit. The manufacturer is not responsible for any damage resulting from the failure of installing the valve prior to start-up.

START-UP

Special Tools Required:

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- Multimeter
- Standard Hand Tools

Follow Start-up procedure for the EVAP section as specified in the Start-up Procedure (page 16) of the EVAP manual

