

## Instruction Sheet

PA-00228

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# HMI Moisture Liquid Indicator

## HMI Moisture Liquid Indicator

### General Information

Only one indicated element is required for all common refrigerants. This element is highly sensitive to moisture and will gradually change color in direct relation to an increase or decrease in the moisture content of the system. The dry-caution-wet system operating conditions are then easily determined by matching the element color with the two colors displayed on the reference label. Colors change as often as the system moisture content changes.

MWP - 680 psig

**IMPORTANT:** 12 hours is recommended after installation of the Moisture Liquid Indicator before attempting to determine the system moisture content.

### Safety Instructions

1. Read all instructions thoroughly. Failure to comply can result in valve failure, system damage, or personal injury.
2. The indicator element will indicate an unsafe condition before installation. This is normal and simply reflects the room humidity condition.
3. The exclusive fused glass eyepiece in the Moisture Liquid Indicator provides a clear, wide-angle view of the liquid refrigerant flow so that bubbles or flash gas are easily seen. This indicates an insufficient system charge, low head pressure, insufficient liquid subcooling or some form of restriction in the liquid line.

### Installation Instructions

1. The Moisture Liquid Indicator may be installed anywhere in the liquid line and in any position. It is normally installed downstream from the filter-drier and immediately ahead of the thermal expansion valve.
2. Extended cooper connections with bar stock body permits use of any soft solder or commonly used brazing alloys. When soldering or brazing, direct the flame away from the body. Wet rags or chill blocks must be used when brazing to prevent damaging the Moisture Liquid Indicator. See Figure 1.

Following installation of a Moisture Liquid Indicator or an EK filter-drier, the system should be allowed to reach equilibrium as previously noted. If a caution or wet system condition is still indicated following this period, the filter-drier or the replaceable cores should be replaced. This practice should be continued until the system has dried and a safe condition is indicated.

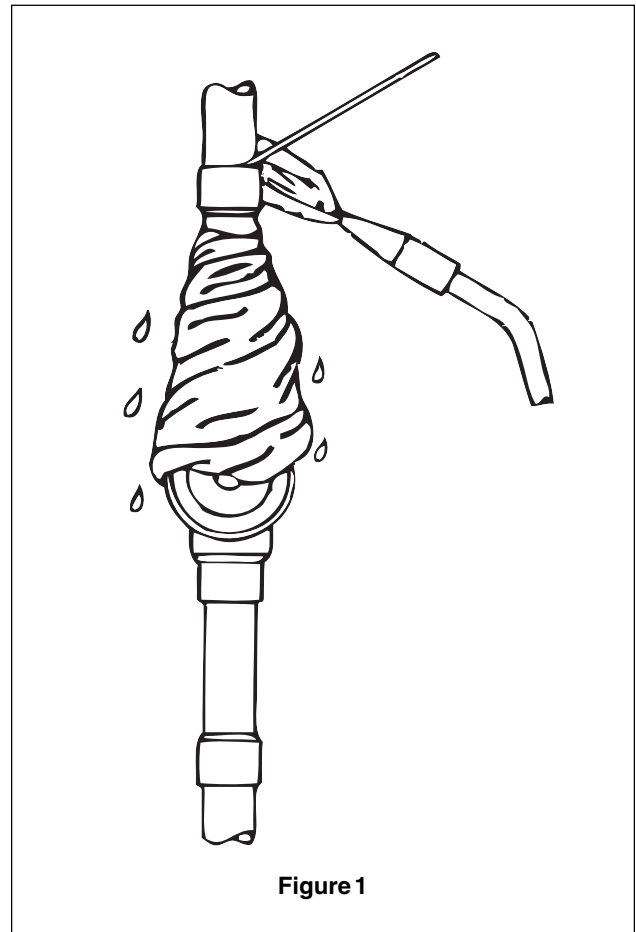


Figure 1

**CAUTION:** This product is intended for use on all CFC, HCFC and HFC refrigerants. Do not use on any unlisted fluid media without prior approval of the Emerson Climate Technologies Flow Controls Division Applications Engineering Department. Use on fluids not listed above could result in deterioration of the moisture indicator element. Not for use on refrigerants classified by ASHRAE standard 34 as Class A1/A2, A2, A3, B2 and B3.



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