

HEAT PUMP MILD WEATHER CONTROL KIT (UPC-65 AND UPC-65X)

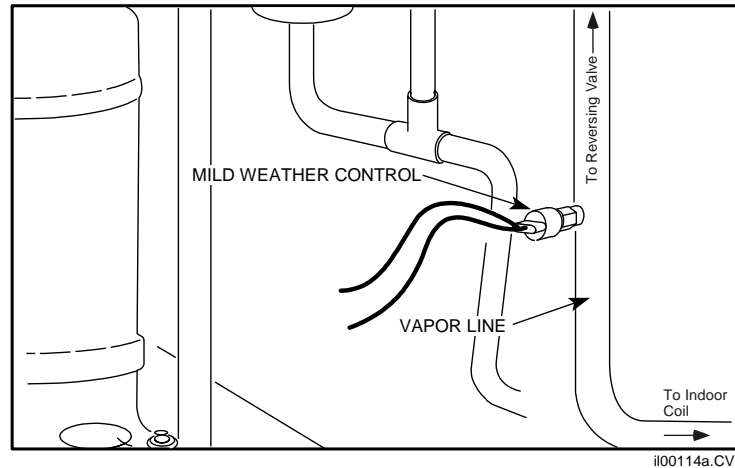


Figure 1. Typical Unit Shown

Application. The *UNICO SYSTEM* mild weather kit is designed for heat pump units operating on the heating cycle under mild weather conditions. Typically ambient temperatures of over 50°F are considered mild weather. For these conditions, the outdoor coil capacity increases to the point of tripping the high-pressure switch and shutting down the unit. To maintain system operation, this control will reduce the outdoor coil capacity and subsequent head pressure by cutting out the outdoor fan. The system will continue to operate.

Sequence of Operation. The mild weather control automatically cycles the outdoor fan motor when the head pressure rises above normal operating conditions. The cutoff point on this control is below that of a typical high pressure switch, so annoying cutouts on high pressure are eliminated during the heating cycle. Because the outdoor fan is stopped, the head pressure will drop because of the capacity reduction. Once the head pressure falls to a certain level the outdoor fan will re-energize.

The pressure control is factory set as follows:

Part No	Refrigerant	Cut-Out	Cut-in (Reset)
UPC-65	R22	375 psig (2590 kPa)	265 psig (1890 kPa)
UPC-65X	R410A	575 psig (3965 kPa)	450 psig (3102 kPa)

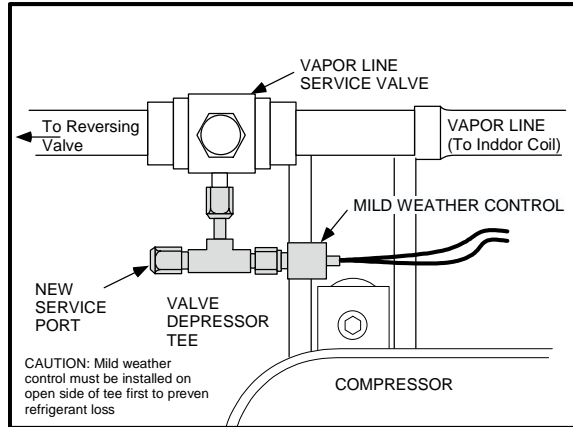
The control automatically resets, so no adjustments are necessary.

Installation.

1. Turn off power to unit.
2. Secure mild weather control to service port located on vapor line between indoor coil and reversing valve. The control is equipped with a built-in valve core depressor to prevent refrigerant loss. See Figure 1.

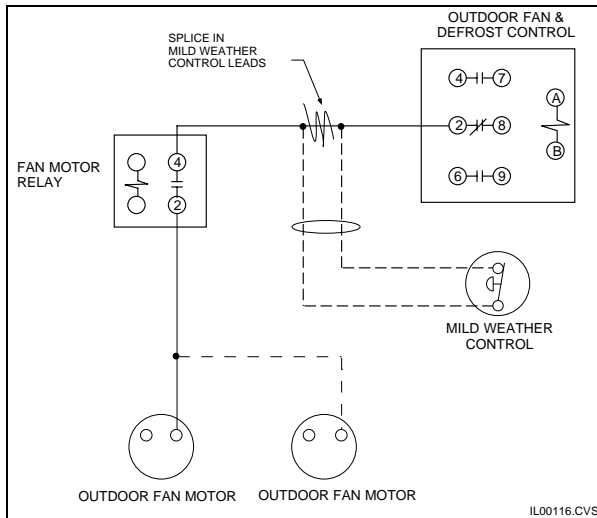
IMPORTANT — For units with only one service port on vapor line located at vapor line service valve, a depressor tee (provided) must be used. Remove service port cap from vapor line service valve, install mild weather control on open side of tee and then secure the control assembly to the service port as shown in Figure 2. Position assembly so that end of tee with valve core can now be used as service port.

3. Refer to correct application wiring diagram provided in this instruction to complete wiring.
4. Restore power to unit.



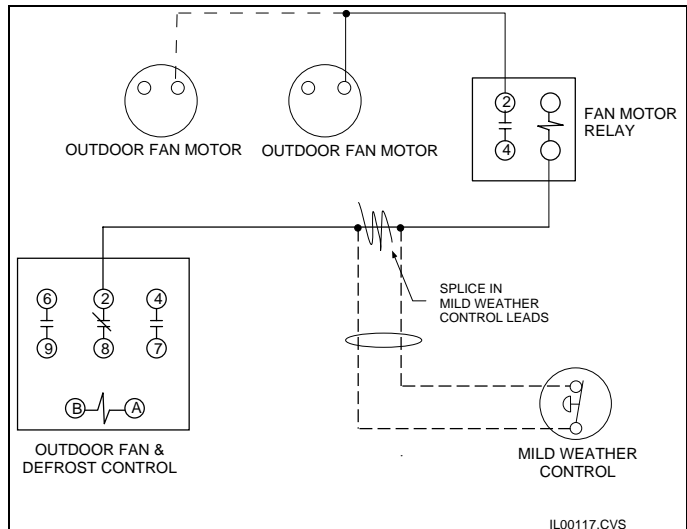
IL00115a.CVN

Figure 2.



IL00116.CVS

Figure 3. Typical Field Wiring Diagram for Heat Pumps for Condenser Fan Motors up to 5 Amps Max.



IL00117.CVS

Figure 4. Typical Field Wiring Diagram for Heat Pumps with Condenser Fan Motors over 5 amps.