

CSM Chiller Interface

The CSM Chiller Interface (part number CEPL130405) allows older Carrier chillers and chillers not manufactured by Carrier to be included in a multiple chiller system controlled by a CHILLERVISOR System Manager III (CSM III) on a Carrier Comfort Network (CCN).

The chiller interface can be installed on centrifugal compressor, screw compressor, and reciprocating compressor chillers manufactured by Carrier, Trane, York, McQuay, and other chillers that meet its I/O requirements. Existing chiller controls are left intact.

It provides the following:

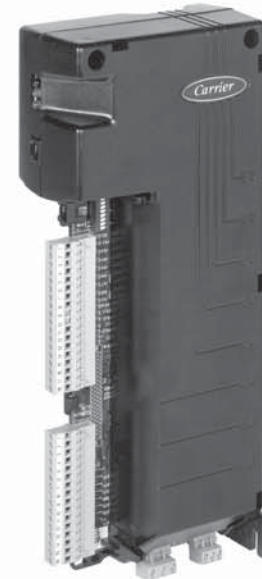
- Chiller control functions—Start/stop, chilled water reset, and demand limiting.
- A time schedule backup mode for local control.
- Language translation capability.
- An alarm output for local annunciation.

The CSM Chiller Interface provides hardwired control of the chillers by using industry standard I/O methods:

- Thermistor sensor inputs
- Discrete outputs driving field-supplied relays
- 0–10 Vdc or 4–20 mA control signals.

Chillers interfaced to the CSM Chiller Interface can also be run under CSM III (CCN) control, under local control without impacting the overall control system, or under standalone control. Local and CCN modes are user-selectable with a field-supplied and installed service switch. CCN mode automatically transitions to standalone mode if CSM communications fail.

The CSM Chiller Interface consists of a module equipped with input and output points and specialized control and communication software. It may be installed in the chiller's control panel, or in a standard NEMA Type 1 enclosure or equivalent. It is powered by any standard Class II, SELV-compatible, 24 Vac, 50 VA transformer.



The CSM Chiller Interface supports generic chiller LID functions, configuration and display. Maintenance and diagnostic data are accessible by all standard CCN user interfaces.

CSM III FEATURES

A CHILLERVISOR System Manager III coordinates the operation of a chilled water system in which up to eight chillers feed a common chilled water loop. It provides sophisticated multiple chiller control functions to optimize the efficiency of your Carrier chiller plant.

The CSM III's control functions include the following:

- Automatic chiller start/stop
- Two seasonal chiller start/stop sequencing modes with add/drop capability
- Designated standby chiller support
- Occupancy-based plant operation with configurable override
- Soft loading
- Load balancing
- Bypass valve control
- Chilled water setpoint reset
- Loadshed demand limiting
- Chiller fault handling and capacity matching
- System alarm messages and alarm history
- Short- and long-term power failure recovery

