

DEHUMIDIFICATION DIVISION

MODEL HCD PLUS



ADD-ON MODULES

FEATURES

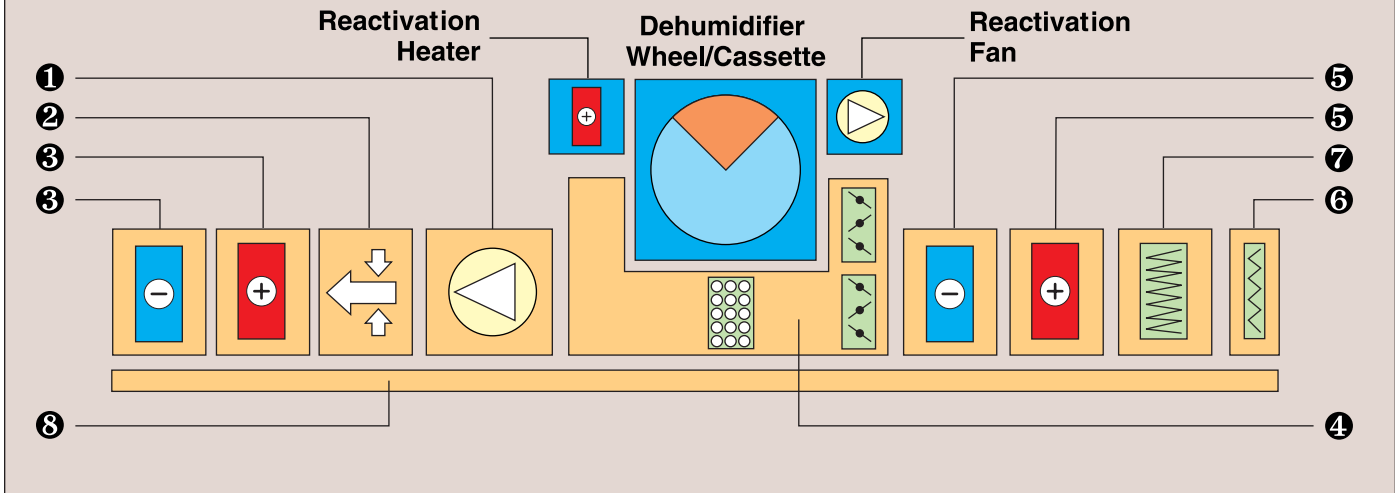
The HCD-600 through HCD-9000 product line provides the end user with the essential dehumidification function. With the add-on modules, the HCD Plus provides additional process air filtration, cooling, heating and mixing functions that many end users require. The add-on modules integrate readily as “bolt-on” housings in line with the other process air components. The arrangement is skid-mounted, providing the buyer with a single source, factory-assembled package. It requires only utility hook-ups, chiller/boiler piping, ductwork connections and sensor/controller tie-ins on site. If a more complete system offering is required, with condensing unit, piping, integrated controls or other features, consult Cargocaire representatives or staff early in the specification and design process for assistance in the equipment selection.

BENEFITS

These pre-engineered modules allow for fast and cost-effective manufacturing of packaged air processing equipment; yet the range of individual module selections still provides a great deal of freedom to customize the equipment package. Air streams totaling 300 to 12,000 scfm can be accommodated in plenums which house cooling and heating coils with up to 26 ft² of face area and ten rows deep; filters up through HEPA class; and fans capable of several inches W.G. of external static pressure. The add-on module, or “building block” approach, means a flexible design process with component selection and arrangement defined by end user needs.



HCD DEHUMIDIFIER WITH ADD-ON MODULES



THE UNITS

1 Process Air Blower Plenum

The process air blower can be enclosed and the plenum insulated to avoid condensation when process air temperature is below the dew point of surrounding air. Also, the process air blower plenum provides in-line airflow to the mixing box, coil module or ductwork.

2 Mixing Plenum

The mixing plenum allows incoming air to be mixed with up to four other incoming air streams. Manual dampers are provided to balance the airflows. The mixed air stream can then be further conditioned by downstream modules.

3 Post-Heat/Cool Coil Plenum

5 Pre-Heat/Cool Coil Plenum

The coil plenum is designed to house a maximum of ten rows of coils for direct expansion refrigeration, chilled water, hot water, steam or combinations to provide pre- or post-cooling or heat-

ing. Alternatively, electric heating elements can also be housed in this plenum. The maximum face velocity is 450 fpm for cooling coils and 900 fpm for heating coils/elements.

4 Face and Bypass Plenum

The face and bypass plenum provides 100% bypass capabilities. Face and bypass dampers of low leakage design are operated by proportioning actuators.

6 Filter Plenum, 30%

7 Filter Plenum, High Efficiency

A disposable filter of 30% efficiency has slide rails that provide easy access for maintenance. A disposable, high efficiency filter of up to 95% (combined with disposable 30% efficiency pre-filter) has slide rails that provide easy side access for maintenance. Consult factory for HEPA filters and plenums.

8 Skid

A structural steel skid of "C" channel design is between 6" to 12" in height. On smaller units with shorter lead times, formed steel will be substituted.

SPECIFICATIONS

All air plenums and boxes are constructed of a strain-hardened aluminum sheet of 0.125" minimum thickness which is welded, gasketed and/or sealed to be air and vapor tight at design static pressures and airflows. All process air handling structures are insulated with 1" Armaflex as required to minimize exterior sweating and heat transfer. Provisions are made to remove any air moving or control component, including coils, without dismantling plenums, boxes or ductwork. Removable panels will provide access from both the left and right hand sides whenever they are not conflicting with other unit specifications. Access panels for filter, coil and blower service and control adjustment shall be quick release type with captive hardware. Access panel shall be labeled and furnished with resilient gaskets mating to a knife edge to preserve the air and vapor integrity.

CARGOCAIRE

ISO 9001 CERTIFIED

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