



Product: [AEHC Chimney - Through Ceiling](#)

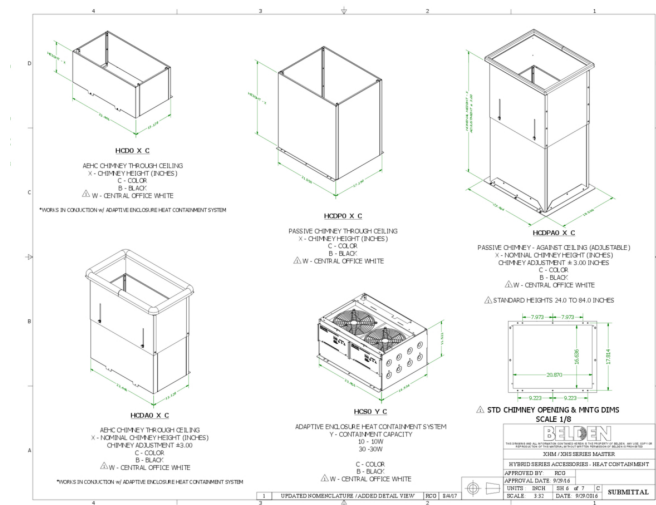
AEHC Active Chimney



Product Description

AEHC Active Chimney, Through ceiling

Technical Drawing



Technical Specifications

Application

Product Overview:	Belden's active Adaptive Enclosure Heat Containment (AEHC) System is a highly efficient and cost-effective method for cooling cabinets while preventing the mixing of hot and cold air in the data center. When networked, AEHC chimneys allow aggregation of exhaust air volume of entire cabinet pods, enabling real-time control of CRAC units and creating a logical link between the cooling plant and the computing load. this unique attribute allows reduction of cooling-operating costs, particularly in virtualized, clustered computing environments characterized by highly dynamic computing loads. AEHC uses high-capacity fans controlled by a pressure sensor to ensure dynamic balancing of intake and exhaust air volumes Maintains neutral pressure in the cabinet plenum for highly efficient server fan operation Can be networked in a pod/row for redundancy in virtualized, clustered computing environments Multiple cabinets can share AEHC chimneys based on hosted computing density (three cabinets per chimney is typical) AEHC is highly scalable with chimneys added as needed with increased computing loads A pair of hot swappable brush-less fans with a combined capacity of 10 kW or 30 kW connect to the AEHC controller, enabling quick and easy capacity upgrades (different capacity fans cannot be used in the same cabinet) Fan motors are engineered to ensure longevity, high air displacement and low power consumption for mission-critical facilities Ideal for existing data centers, and non-Belden cabinets can be retrofitted with chimney by using a customized adapter plate The AEHC system is powered (auto-sensing 120V or 208V) via the cabinet PDUs and accepts two distinct power feeds for redundancy A combination of temperature-humidity sensors with AEHC controller can collect and store environmental data. When networked, real-time data can be accessed via the intuitive user interface or Belden Corman-CS Infrastructure Management Software using SNMP (MIB File) Environmental, mechanical and electrical thresholds and alarms are easy to configure and can be sent directly to e-mail addresses (through an escalation process)
Benefits:	Active system can support up to 30 kW per cabinet for today's extremely high heat loads, Active chimneys are available as through-ceiling chimneys that protrude approximately 2" into the plenum, and against-the-ceiling chimneys that adjust and feature rubber gasket for effective sealing against the drop sealing. To account for fans and controller units, chimney length for active containment should be sized by deducting 11.5" from distance between cabinet top and return ceiling, Belden X Series cabinets equipped with containment top panels accept both passive and active chimneys, allowing for easy passive-to-active conversion
Environmental Space:	Indoor

Related Part Numbers

Variants

Part #	Chimney Height	Color
HCD024B		Black
HCD024W	24.0 in	White
HCD024B	24.0 in	Black
HCD033B	33.0 in	Black

HCD033W	33.0 in	White
HCD036B	36.0 in	Black
HCD036W	36.0 in	White
HCD042B	42.0 in	Black
HCD042W	42.0 in	White
HCD048B	48.0 in	Black
HCD048W	48.0 in	White
HCD054B	54.0 in	Black
HCD054W	54.0 in	White
HCD060B	60.0 in	Black
HCD060W	60.0 in	White
HCD066B	66.0 in	Black
HCD066W	66.0 in	White
HCD072B	72.0 in	Black
HCD072W	72.0 in	White
HCD078B	78.0 in	Black
HCD078W	78.0 in	White
HCD084B	84.0 in	Black
HCD084W	84.0 in	White

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