



CLIMATEWORX INTERNATIONAL

MISSION CRITICAL
AIR CONDITIONING SYSTEMS



VERTICAL
FLOOR MOUNT

Series 6, 8 & 9

2-30 Ton Units

Single Circuit for Superior
Economy and Dual Circuit
for Ultimate Protection



CLIMATEWORX INTERNATIONAL



Series 6

2-5 tons

Compact Footprint
to Allow Efficient
Use of Floor Space

Series 8

6-10 tons

Single Circuit for Cost
Effective Cooling



Series 9

6-30 tons

Dual Circuit Reliability for
the Ultimate Protection

STATIC PRESSURE - INCHES WATER GAUGE

0
0.82
1.0
1.00
1.00
1.00
4.0
5.0
6.0

Mission Critical Climate Control

Series 6

2-5 Tons

Compact Footprint to Allow Efficient Use of Floor Space

COOLING MODES

- Air Cooled DX (Split or Packaged)
- Water Cooled DX
- Glycol Cooled DX
- Chilled Water

CONFIGURATIONS

- Up Flow
- Down Flow
- DX in 407C

REHEAT OPTIONS

- SCR Controlled Electric
- Optional Upsize SCR Controlled Electric Reheat



EVAPORATOR COIL & DRAIN PAN

Coil-3/8" OD copper tubes expanded into aluminum fins. Stainless Steel corrosion free condensate drain pan under the coil.

SCR RE-HEAT

Silicon Controlled Rectifier (SCR) controlled, with an extruded aluminum heat sink. Heating element-low watt-density, tubular finned construction with a non-corrosive metal sheath electrically and thermally protected.

TEMPERATURE & HUMIDITY SENSOR

FILTERS

Standard capacity, Merv 8 filters, 50mm (2") deep, pleated type having 25-30% efficiency, 90-92% arrestance to ASHRAE 52-76.

PANELS & INSULATION

Panels formed & welded from 18 gauge steel with Epoxy Powder Paint and **Insulation** is 25mm (1") thick, 24kg/m³ (1.5 lb/ft³) density fiber-glass.

AIR COOLED DOWN FLOW - MODEL 6AD05



FRAME

14 Gauge Steel with Epoxy Powder Paint.

M52

Microprocessor based control system with automatic control and monitoring capability.

HUMIDIFIER

Self-contained electrode boiler type c/w with water level control and auto-drain functions.

BLOWER & MOTOR

Blower-Double inlet, double width, forward curve, belt driven centrifugal type blower. **Fan Motor**-Totally Enclosed Air Cooled type (TEAO) having class F insulation, IP54 standard. Blanking plate removed to illustrate motor & blower.

SCROLL COMPRESSOR

Equipped with:

- Suction rotolock valve
- Discharge rotolock valve
- Gauge ports
- Internal thermal overload
- Vibration isolators
- Crank Case Heater

DISCONNECT
Non-Fused Locking Type.

100% FRONT SERVICEABLE

6-10 Tons

Single Circuit for Cost Effective Cooling

Series 8

COOLING MODES

- Air Cooled DX
- Water Cooled DX
- Glycol Cooled DX
- Chilled Water

CONFIGURATIONS

- Up Flow-Front or Rear Return (Option)
- Down Flow
- DX in 407C

REHEAT OPTIONS

- SCR Controlled Electric (Optional Upsize)
- Hot Water Reheat Coil
- Steam Reheat Coil
- Hot Gas Reheat Coil

PANELS & INSULATION

Panels formed & welded from 18 gauge steel with Epoxy Powder Paint and **Insulation** is 25mm (1" thick, 24kg/m³ (1.5 lb/ft³) density fiber-glass.

DISCONNECT
Non-Fused
Locking Type.

M52
Microprocessor based control system with automatic control and monitoring capability.

BLOWER & MOTOR

Blower-Double inlet, double width, forward curve, belt driven centrifugal type blower. **Fan Motor**-Totally Enclosed Air Cooled type (TEAO) having class F insulation, IP54 standard.

EVAPORATOR COIL & DRAIN PAN

Coil-3/8" OD copper tubes expanded into aluminum fins. Stainless Steel corrosion free condensate drain pan under the coil.

FILTERS

Standard capacity, Merv 8 filters, 100mm (4") deep, pleated type having 25-30% efficiency, 90-92% arrestance to ASHRAE 52-76.

SCR RE-HEAT

Silicon Controlled Rectifier (SCR) controlled, with an extruded aluminum heat sink. Heating element-low watt-density, tubular finned construction with a non-corrosive metal sheath electrically and thermally protected.

SCROLL COMPRESSOR

Equipped with:

- Suction rotolock valve
- Discharge rotolock valve
- Gauge ports
- Internal thermal overload
- Vibration isolators
- Crank Case Heater

FRAME

14 Gauge Steel with Epoxy Powder Paint.



AIR COOLED UP FLOW UNIT LEFT END VIEW



AIR COOLED DOWN FLOW UNIT LEFT END VIEW



HUMIDIFIER

Self-contained electrode boiler type c/w with water level control and auto-drain functions.

AIR COOLED UP FLOW - MODEL 8AU10

Mission Critical Climate Control

Series 9

UP FLOW

6-30 Tons

Dual Circuit Reliability for the Ultimate Protection

COOLING MODES

- Air Cooled DX
- Water Cooled DX
- Glycol Cooled DX
- Chilled Water
- Dual and Free Cool

CONFIGURATIONS

- Up Flow-Front or Rear return (Option)
- DX in 407C

REHEAT OPTIONS

- SCR Controlled Electric (Optional Upsize)
- Hot Water Reheat Coil
- Steam Reheat Coil
- Hot Gas Reheat Coil

BLOWER & MOTOR

Blower-Double inlet, double width, forward curve, belt driven centrifugal type blower. Fan Motor-Totally Enclosed Air Cooled type (TEAO) having class F insulation, IP54 standard.

PANELS & INSULATION

Panels formed & welded from 18 gauge steel with Epoxy Powder Paint and Insulation is 25mm (1") thick, 24kg/m³ (1.5 lb/ft³) density fiber-glass.

M52

Microprocessor based control system with automatic control and monitoring capability.

DUAL SCROLL COMPRESSORS

Equipped with:

- Suction rotolock valve
- Discharge rotolock valve
- Gauge ports
- Internal thermal overload
- Vibration isolators
- Crank Case Heater



End Panel Removed

EVAPORATOR COIL & DRAIN PAN

Coil-3/8" or 1/2" OD copper tubes expanded into aluminum fins. Stainless Steel corrosion free condensate drain pan under the coil.

SCR RE-HEAT

Silicon Controlled Rectifier (SCR) controlled, with an extruded aluminum heat sink. Heating element-low watt-density, tubular finned construction with a non-corrosive metal sheath electrically and thermally protected.

HUMIDIFIER

Self-contained electrode boiler type c/w with water level control and autodrain functions.

DISCONNECT

Non-Fused Locking Type.



FRAME

14 Gauge Steel with Epoxy Powder Paint.

FILTERS

Standard capacity, Merv 8 filters, 100mm (4") deep, pleated type having 25-30% efficiency, 90-92% arrestance to ASHRAE 52-76.

AIR COOLED UP FLOW - MODEL 9AU16

6-30 Tons DOWNFLOW

Dual Circuit Reliability for the Ultimate Protection

Series 9

COOLING MODES

- Air Cooled DX
- Water Cooled DX
- Glycol Cooled DX
- Chilled Water
- Dual and Free Cool

CONFIGURATIONS

- Down Flow-Front or Rear return (Option)
- DX in 407C

REHEAT OPTIONS

- SCR Controlled Electric (Optional Upsize)
- Hot Water Reheat Coil
- Steam Reheat Coil
- Hot Gas Reheat Coil

EVAPORATOR COIL & DRAIN PAN

Coil-3/8" or 1/2" OD copper tubes expanded into aluminum fins. Stainless Steel corrosion free condensate drain pan under the coil.

FILTERS

Standard capacity, Merv 8 filters, 100mm (4") deep, pleated type having 25-30% efficiency, 90-92% arrestance to ASHRAE 52-76.

M52

Input/Output (I/O) Board.

M52

Microprocessor based control system with automatic control and monitoring capability.

DUAL SCROLL COMPRESSORS

Equipped with:

- Suction rotolock valve
- Discharge rotolock valve
- Gauge ports
- Internal thermal overload
- Vibration isolators
- Crank Case Heater

FRAME

14 Gauge Steel with Epoxy Powder Paint.

PANELS & INSULATION

Panels formed & welded from 18 gauge steel with Epoxy Powder Paint and Insulation is 25mm (1") thick, 24kg/m³ (1.5 lb/ft³) density fiber-glass.

HUMIDIFIER

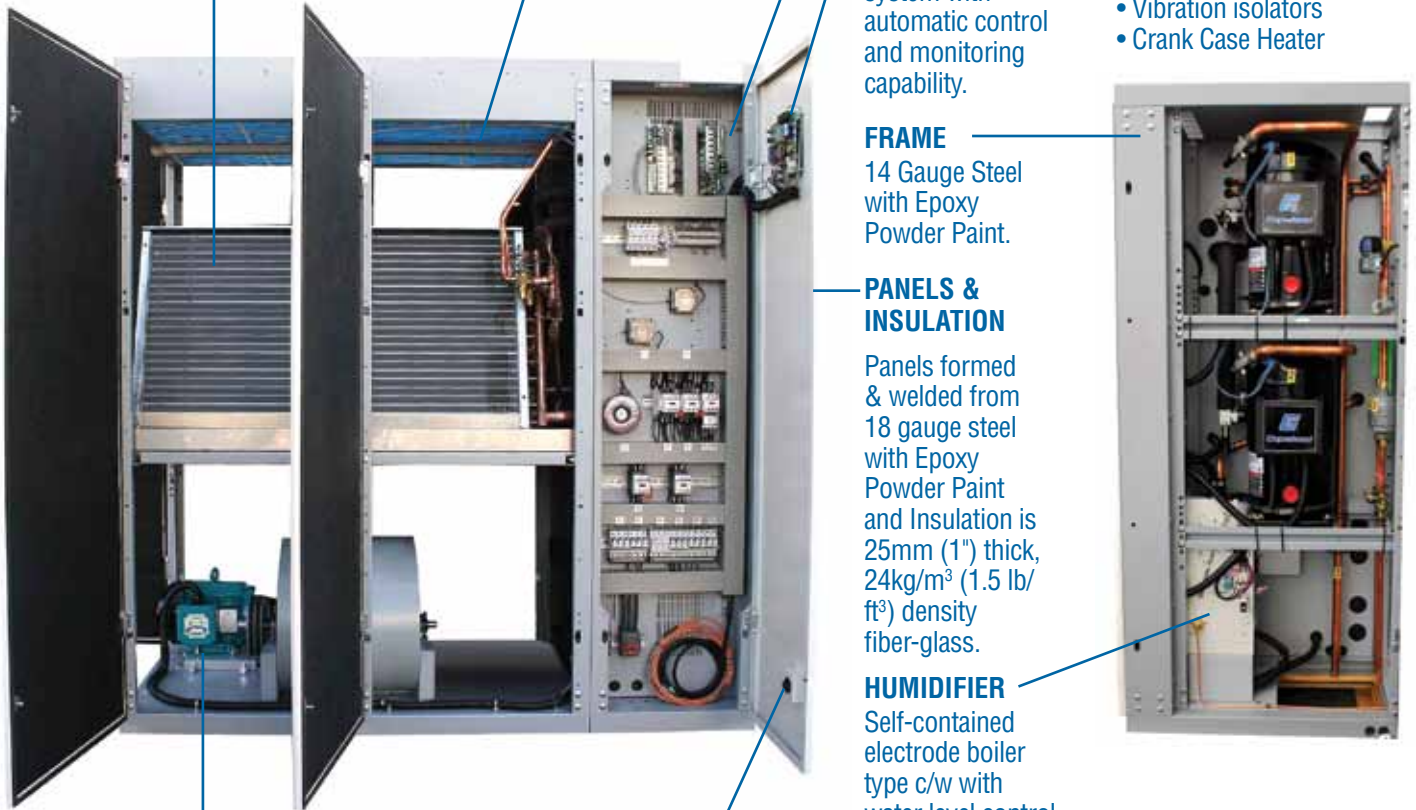
Self-contained electrode boiler type c/w with water level control and autodrain functions.

BLOWER & MOTOR

Blower-Double inlet, double width, forward curve, belt driven centrifugal type blower. Fan Motor-Totally Enclosed Air Cooled type (TEAO) having class F insulation, IP54 standard.

DISCONNECT

Non-Fused Locking Type.



AIR COOLED DOWN FLOW - MODEL 9AD12

MODELS 26 & 30 ARE THREE (3) FAN UNITS

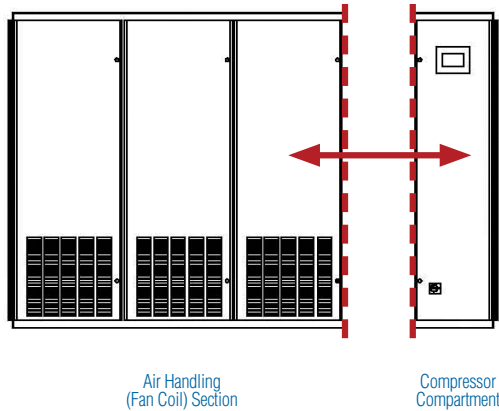
Mission Critical Climate Control

Options

Configure the Unit

FACTORY SPLIT – SERIES 9

Compressor Compartment is split from Air Handling (Fan/Coil) Section into two (2) separate pieces for transport through confined spaces. Section refrigeration piping and electrical wiring are field connected on site – BY OTHERS.



CONDENSATE PUMP

Condensate pump shall remove condensate from evaporator and humidifier when a drain is not available near by. Pump is shipped loose for field installation. Optional factory mounted and wired pumps are available for some models. Pump shall be capable of 37 GPH at 20' of head.



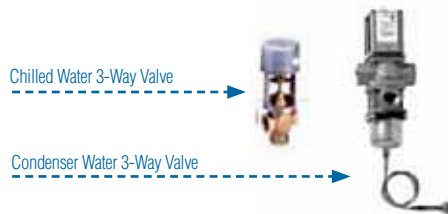
SINGLE POINT LIQUID DETECTION

Liquid detection shall consist of a single point liquid sensor. Sensor wires directly into the microprocessor and includes 10 feet of wire for field placement.



3-WAY VALVES

Chilled Water or Condenser Water Regulating Valve c/w Bypass balancing valve (150 psi).



CABLE LIQUID DETECTION

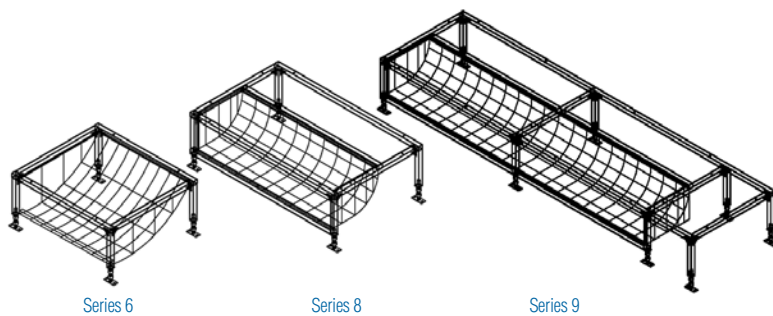
Liquid detection shall consist of liquid cable sensor. Cable wires directly into the microprocessor and includes 10 feet of wire to extend to the bottom of the unit and 15 feet of sensing cable shall be supplied with the unit for field placement.



FLOOR STANDS

Floor stand shall be a welded steel frame with corrosion resistant finish in heights from 8 to 24 inches. The stands shall have adjustable legs for levelling with 1 inch of adjustment.

Turning vanes are available for down discharge units (minimum height for a floor stand c/w Turning Vane is 12 inches). For floor stands greater than 24 inches please consult factory.



HIGH LIMIT CUT OUT

Factory mounted and wired to shut the unit down in the event of high heat detection (130F).

SMOKE DETECTOR

Smoke detector is factory mounted and wired to shut unit down in the event of the presence of smoke.



SPRING OPEN/CLOSE CHILLED WATER VALVE ACTUATOR

Chilled Water Valve (CW) actuator to position CW valve in Open or Close upon loss of power.

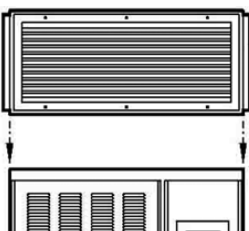


DISCHARGE & RETURN AIR PLENUMS

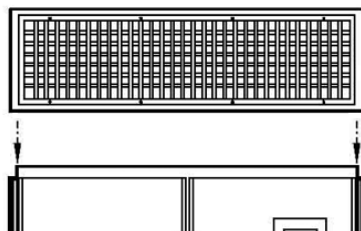
Factory plenums match unit and allows upflow units to supply air directly to space. Plenum has front double deflection grilles

and is internally insulated.

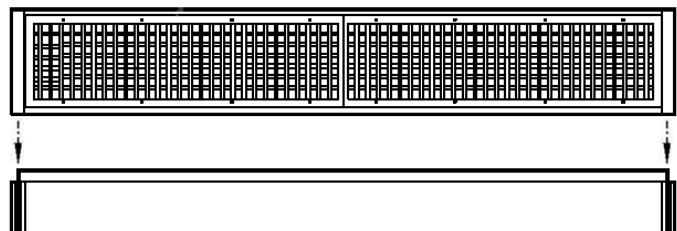
Return air plenums are available to match units in customer specified heights with and without filter access doors.



Series 6



Series 8



Series 9



ClimateWorx International Inc. is focused on research, design, manufacture and application of Precision Air Conditioning Equipment providing reliable mission critical climate control. ClimateWorx's offering and design capabilities can meet your specifications with product lines of vertical floor mount, wall mount, ceiling mount, plenum fan and in-row units.

ClimateWorx, a family and employee owned and operated business is fully committed to offering superior service and state of the art quality standards to satisfy our customers' needs. Our dedicated research and development team works continuously to improve the current product line as well as focusing on the development of new products that are needed to compete in the Data Center Cooling arena.

With the support of solid market leaders, including **BMP Metals Inc.** (www.bmpmetals.com) and **CableTalk Systems Inc.** (www.cabletalk.com) which have been providing quality integrated solutions for nearly three decades, ClimateWorx can offer comprehensive solutions for all your Data Centre needs.

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Director

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OUR MISSION

To offer superior service and state of the art quality standards for the mutual benefit of our customers and employees.

OUR VISION

We will be globally recognized as a leader in the design and manufacture of innovative, quality solutions that satisfy the requirements of "mission-critical" environments.



Mission Critical Climate Control



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ISO 9001:2008

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In the interest of continuous improvement, ClimateWorx reserves the right to change specifications without notice.

All ClimateWorx International Series 6/8/9 equipment are ETL listed to comply to UL-1995 and CAN/CSA-C22.2 No. 236 for Heating and Cooling Equipment. 

BEMPRO GLOBAL GROUP

ClimateWorx International Inc. is part of the Bempro Global Group of companies.