



CLIMATEWORX INTERNATIONAL

MISSION CRITICAL
AIR CONDITIONING SYSTEMS



WALL & CEILING
MOUNT

Series 7 & 11

1-5 Ton Units

Single Circuit Units
Designed for Superior
Space Utilization





Series 7

1.5-2.5 tons

Compact wall mounted split precision for efficient use of space, and effective, high-sensible cooling performance



Series 11

1-3 tons

Compact ceiling mounted for quiet, reliable and efficient environment control



Series 11

4-5 tons

Compact ceiling mounted for quiet, reliable and efficient environment control



STATIC PRESSURE - INCHES WATER GAUGE

0
0.82
1.0
2.0
4.0
5.0
6.0

CO-WORK® CONNECTIVITY

Our controller is at the heart of all of ClimateWorx's product intelligence. Co-Work™ is based on a unique multi-master network system designed by ClimateWorx to maximize performance, reliability and manageability of our precision air conditioning systems. Its six key control functions guarantee the highest possible degree of on-site connectivity utilizing built-in IIC communication bus. An optional remote mounted panel allows for remote monitoring and control in a LAN environment. Common alarm output can be used for automatic dial-up to an emergency service response unit for remote sites.

CONTROL REDUNDANCY

A Co-Work™ network is not dependent on a single designated master controller. Should a master controller experience technical difficulty, the system will automatically assign another controller to take on the master's duties. Therefore, the network actually has 'multiple masters', providing maximum redundancy and added protection.

coordinated manner to minimize in-rush currents when activated or deactivated due to power disruptions.

CONTROL VALUE AVERAGING

This feature helps avoid units fighting each other in the network by exchanging and averaging temperature and relative humidity sensor data between units in one space.

DUTY SHARING

This feature equalizes runtime and standby time for all units in a network by coordinating the operation of standby and duty units based on accumulated runtime. This increases the network's reliability.

EXPANSION OF CONTROL STEPS

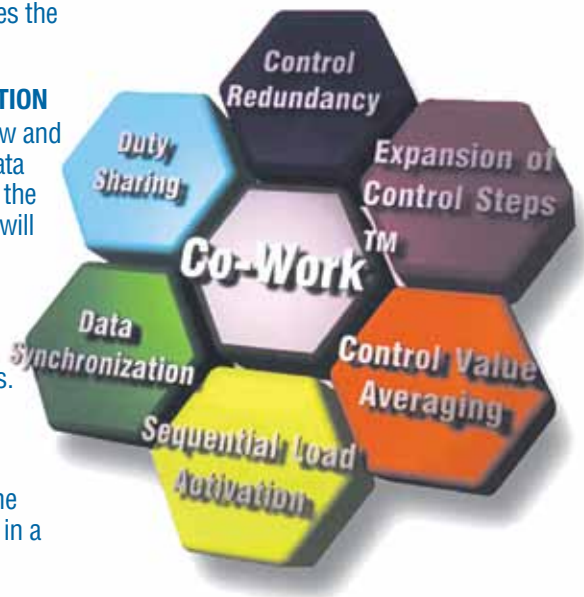
For precise capacity matching with up to 8 steps of control. This mean optimum operating efficiency and maximum system reliability.

DATA SYNCHRONIZATION

An operator can review and change operational data at any random unit in the network. All changes will automatically be communicated and reset across all the units in the network, simplifying operations.

SEQUENTIAL LOAD ACTIVATION

The components of the network are activated in a



INTELLIGENCE MADE VISIBLE

ClimateWorx's M52 controller features a large, easy to read touch-activated LCD display.

EASY TO USE

Simple icons to allow for quick programming and easy to read information. The main display features continuous room and unit status information available in several languages, expressed in degrees Fahrenheit or Celsius.



PRECISION

Full P-I-D control logic provides precise environmental control.

GRAPHIC DATA

System maintains graphic trending of temperature and humidity data over a 24-hour period.

DIAGNOSTICS

Detailed diagnostic routines and historic event log that keeps last 50 events stored allowing for easy fault analysis.

ALARM MONITORING

Multiple programmable alarm settings to assure safe operations.

SECURITY

Three levels of security provides for the assignment of different levels of access and protects against unauthorized changes to equipment setting.

1.5-2.5 Tons

Single Circuit Wall Mount

PRECISION AIR CONDITIONING

IF ONLY YOUR MACHINES COULD TALK

Your electronic equipment comprises the central nervous system of your business. In some ways it is more sensitive than people. These carefully calibrated instruments are less tolerant of changes in temperature, humidity and dust than the people who designed them. If they could speak for themselves, they would tell you this. But they can't. That's our job.

PRECISION EQUIPMENT REQUIRES A RELIABLE PRECISION ENVIRONMENT

All air conditioning is not created equal. Offhand, it might seem that installing an everyday comfort air conditioning unit is a wise investment for the cooling needs of your equipment. But familiarity can be deceiving. Though your initial investment may be reduced, so might the life of your mission-critical room applications, and perhaps your company. Unlike people, machines produce sensible heat, which ordinary comfort systems are not designed to handle as effectively as Precision Air Conditioning. Therefore, with a precision system,

you will experience savings on your operating costs and greater reliability with equipment designed to operate 24 hours a day, seven days a week, no matter what the season.



THE CLIMATEWORX COMMITMENT

When you select a system from ClimateWorx, you also benefit from years of experience. ClimateWorx International is a member of a worldwide group of companies dedicated to the research, design, manufacture and application of precision air conditioning systems, building automation and environmental engineering. ClimateWorx has drawn on this international base of experience in developing its exceptional precision air conditioning systems. ClimateWorx is ISO-9001 registered with a strong commitment to worldclass quality. Extensive and ongoing research and development has resulted in what are considered the market's most advanced and dependable products.

INNOVATION

THE WORLD'S 1ST TRUE WALL-MOUNTED SPLIT PRECISION AIR CONDITIONING SYSTEM

The Series 7 allows for efficient use of space, coupled with effective, high-sensible cooling performance, ideally suited for equipment cooling applications. Think telecommunications and other crowded spaces, housing mission critical equipment. Enter ClimateWorx's exclusive Series 7, the world's first and only true compact wall mounted split precision air conditioning system. To make the system even more versatile, the Series 7 is available in air cooled, water cooled and glycol cooled split systems, or with a chilled water coil. The nominal capacity ranges from 17.6 Mbtu (5 kW) to 28.7 Mbtu (7.6 kW).



STANDARD CONTROLLER

Digital programmable remote mounted heat/cool controller with LCD display. Auto or continuous fan operation, short cycle protection, cold start low pressure over ride.



CLIMATEWORX M52 CONTROLLER (OPTION)

Touch screen display with Co-Work® large network capabilities (see "technology" page for details).

HUMIDIFIER (OPTION)

Optional 5lbs/hr. electrode steam humidifier with automatic water level control. Auto adaptive control allows for safe operation with on ordinary tap water. Requires upgrade to M52 controller.

ELECTRIC REHEAT (OPTION)

Low watt-density tubular finned, single-stage 1-2kW electric reheat. Constructed with non-corrosive metal sheath.



Series 7

COOLING MODES

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

CONFIGURATIONS

- Front Supply, Front Return
- Split Systems with Remote Condensing Units
- DX in 407C

REHEAT OPTIONS

- 1kW or 2kW

COMPACT SIZE

Designed to allow for easy access and installation, while maximizing space in critical-mission rooms.

EFFICIENT COOLING

Enhanced aluminum fin and copper tube slab coil produces 90-95% sensible cooling for efficient cooling.

SYSTEM HOUSING

The Series 7 distinguishes itself not only in performance and reliability, but also in construction. The indoor unit's system housing is constructed of heavy gauge steel, and finished with durable epoxy powder paint for maximum strength and durability, internally lined with high density insulation.

LOUVERS

Horizontally adjustable aluminum supply air louvers.

HINGED PANELS

Provides easy service access to control panel while maintaining minimal clearance to the ceiling.

DRAIN PAN

Stainless steel.

REFRIGERATION

High and low pressure cut-out protection, thermostatic expansion valve, sight glass, filter drier.

FILTERS

Large-capacity filter chamber covering the entire return air pathway, housing a 1" pleated Merv 8 filter. The filter is replaceable without disturbing unit operation.

FAN

Tangential fan with robust, continuous-duty motor.



AIR COOLED COOLING ONLY MODEL SHOWN

HIGH-EFFICIENCY COMPRESSOR

Efficient and reliable scroll compressor is low in vibration and noise. Available in R407C.

SERVICE VALVES

Quick-connect service valves for easy installation.

LIQUID COOLED MODULE

Compact tube-in-tube condenser with two-way regulating valve.

SLIM PROFILE

Small footprint is ideal for installation into tight spaces.

CONDENSER FAN

Low noise propeller with robust, continuous-duty motor.



AIR-COOLED CONDENSING UNIT

The air-cooled condensing units constructed of heavy gauge material.

1-5 Tons

Single Circuit Wall Mount

PRECISION AIR CONDITIONING

PRECISION DEVICES REQUIRE A RELIABLE PRECISION ENVIRONMENT

When you select ClimateWorx, you benefit from years of experience. ClimateWorx International Inc. is a member of a worldwide group of companies dedicated to the research, design, manufacture and application of precision air conditioning, building automation and environmental engineering. ClimateWorx has drawn on this international base of experience in developing its exceptional precision air conditioning systems. ClimateWorx ISO-9001 registered with a strong commitment to world-class quality. Extensive and ongoing research and development has resulted in what are considered the market's most advanced and dependable products.

THE INTELLIGENT SOLUTION

All precision air conditioning is not created equal. A combination of worldwide experience and ClimateWorx's strong commitment to research and development has positioned ClimateWorx as a technology leader in the precision air conditioning field. Design features such as the M52 advanced controller with touch-screen interface, modular construction, high sensible heat ratios and innovative dehumidification cycles are some examples of features incorporated in ClimateWorx's products. Technology is what makes ClimateWorx the intelligent solution for your precision air conditioning needs.

INNOVATION

COMPACT AND VERSATILE DESIGN

ClimateWorx's Series 11 is a compact ceiling mounted air conditioning unit designed to provide quiet, reliable and efficient environmental control for mission critical applications. The compact version of the Series 11 is designed to fit in a standard 2 x 4ft. standard T-bar suspended ceiling system. The nominal capacity ranges from 12Mbh (3.5kW) to 28Mbh (8.2kW). Capacities above 2.5 tons to 5 tons will suspend above the ceiling and are ducted to the space below. This versatile product can be applied in packaged or split configurations for spot cooling, or ducted installations. The Series 11 is available in air cooled, water/glycol cooled and chilled water systems.



AIR COOLED 2 TON MODEL SHOWN



STANDARD CONTROLLER

Digital programmable remote mounted heat/cool controller with LCD display. Auto or continuous fan operation, short cycle protection, cold start low pressure over ride.



CLIMATEWORX M52 CONTROLLER (OPTION)

Touch screen display with Co-Work® large network capabilities (see "technology" page for details).

HUMIDIFIER (OPTION)

Optional 10lbs/hr. electrode steam humidifier with automatic water level control. Auto adaptive control allows for safe operation with on ordinary tap water. Requires upgrade to M52 controller.

ELECTRIC REHEAT (OPTION)

Low watt-density tubular finned, single-stage electric reheat. Constructed with noncorrosive metal sheath. SCR control available for use with ClimateWorx M52 Control System.



Series 11

COOLING MODES

(1-5 Ton Units)

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

(4-5 Ton Units)

- Dual Cool
- Free Cool

CONFIGURATIONS

- Packaged Air Cooled (1-2.5 Ton)
- Remote Condensing Units (1-2.5 Ton Only)
- Remote Condensers
- Grille Supply And Return (1-3 Ton)
- Ducted
- Split Systems
- DX in 407C

REHEAT OPTIONS

- 5kW (1-3 Ton)
- 6kW (3-5 Ton)
- Hot Water (4-5 Ton Units)
- Hot Gas (4-5 Ton Units)

FAN

Quiet and reliable direct-drive, fan in draw-through layout.

COMPRESSOR

Efficient, quiet and reliable scroll compressor (reciprocating compressor for 1tr unit) with resilient mountings and internal overload protection.

REFRIGERATION ACCESSORIES

Hi-low pressure cut-out switch, thermostatic expansion valve, sight-glass and filter drier.

HANGER MOUNTS

Optional spring isolation mounts.

HEAT EXCHANGERS

Copper tube and aluminum fin slab coil construction. Order for use with R407C refrigerant.

CONDENSATE PAN

Double slope stainless steel condensate pan with float switch overflow protection. Left or right side drain.

SYSTEM HOUSING

Heavy gauge steel with thermal/acoustically insulated cabinet.

ELECTRICAL

Isolated electrical panel conforms to UL/CSA and IEC requirements.

SERVICE ACCESS

Removable panels for easy service access.

ELECTRICAL DISCONNECT

Internally mounted rotary disconnect switch.

HOT GAS BYPASS

Available on direct expansion models (not available in split system with remote condensing units).

MULTIPLE CONFIGURATIONS

Available as a self-contained packaged unit, or split system configurations with remote indoor/outdoor condensing unit, or condenser.



DUAL COOLED 5 TON MODEL SHOWN

CONDENSERS

Indoor air-cooled condensers/condensing units use direct-drive. Outdoor aircooled condensers/condensing units use direct-drive propeller fan. Water/glycol systems use co-axial condensers fitted with 2-way valves.

SUPPLY/RETURN AIR GRILLE

Adjustable three-way deflection supply air grill with off-white enamel finish.

RETURN AIR FILTER

Hinged bottom access to filter compartment (slide-out filter box for ducted applications).

DUCTED APPLICATIONS

Ducted supply air and/or return air applications available.





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

All ClimateWorx equipment is evaluated and accepted by a Nationally Recognized Testing Laboratory, NRTL accredited organization to UL 1995 standard.

BEMPRO GLOBAL GROUP

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