

L CONNECTION® NETWORK

Commercial Controls

SIMPLIFIED, CENTRAL
CONTROL



LENNOX
Innovation never felt so good.®

Simplified Control for Your Facility

The L Connection® Network not only enhances comfort and energy-efficiency throughout your facilities, but also helps improve productivity with streamlined system control. At the heart of the solution is a Network Control Panel (NCP) that allows you to control all rooftop units with a single, easy-to-use interface.

L CONNECTION® NETWORK AT A GLANCE:

Controls a wide range of HVAC and building operations—such as heating and cooling equipment, lights, signs and exhaust fans—from a single point of contact

Supports constant-volume bypass and true variable-air-volume zoning applications with factory variable-frequency drives

Works with Lennox® rooftop units and split systems, as well as electromechanically controlled third-party equipment

An intuitive Comfort Sensor interface means you can easily adjust the temperature in your zone to maintain customized comfort

The Comfort Sensor combines the most common sensor types with zone control for simple installation with reduced labor and less clutter on the wall

Advanced monitoring and control via a local Network Control Panel

Monitor and control remotely over an Ethernet network or phone line using a PC software interface

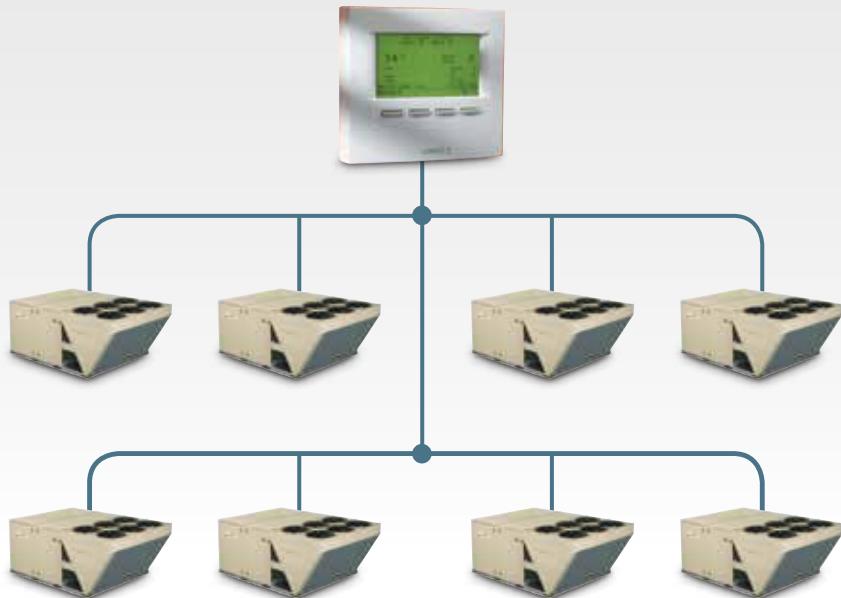
WARRANTIES

3-Year Limited Warranty on the Prodigy® control system

1-Year Limited Warranty on all other controls components

See warranty certificate for actual details.

One NCP can easily replace multiple programmable thermostats



With advanced monitoring and control capabilities, the Network Control Panel allows you to quickly troubleshoot and make configuration adjustments, including schedules, setpoints, humidity levels and more. It is a central interface to access, control and monitor your HVAC equipment and more, so you no longer need to maintain multiple programmable thermostats throughout the facility. And since it's password protected, you're assured only authorized personnel can access and adjust the system.

For added control, a zone temperature sensor or communicating Comfort Sensors can be located in each zone. These versatile, multi-purpose sensors provide basic temperature control and allow you to configure the adjustable range for optimal comfort and energy efficiency. Optional features include a user-friendly LCD interface as well as relative humidity and carbon dioxide sensing capabilities. These zone controllers not only reduce wiring and sensor installations, but also service time and costs, eliminating unnecessary trips to the rooftop.

Create a single point of control for HVAC systems and building functions

The network manager provides a central point of advanced control

Network Control Panel

located in facility manager's office

- Large screen and four-button control provide a user-friendly interface to HVAC equipment and building functions
- Customized settings with time-of-day scheduling, temperature, CO₂, ventilation and humidity control
- Date- and time-stamped alarm codes
- Auto-poll start-up feature greatly reduces installation time and expense
- Easily field-upgraded without losing programs or schedules
- Provides a written description of each controller's alarm codes



Controllers connect equipment to the network

Building Controller

located in control room or mechanical room

- Schedule basic building operations such as lights, signs and exhaust fans
- Built-in diagnostics and alarm codes speed troubleshooting



Prodigy® Unit Controller

standard on every Energence® and Strategos® rooftop unit

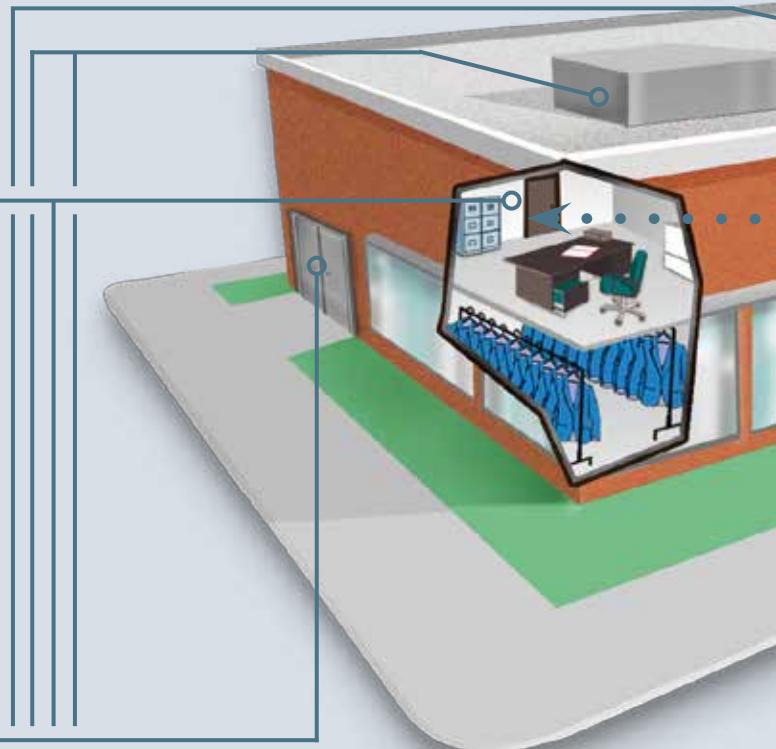
- Intuitive user interface makes setup, troubleshooting and servicing easier than ever
- Each unit tracks the runtime of every major component and records the date and time when service or maintenance is performed
- Intelligently operates the rooftop unit to help ensure reliability, maximum efficiency and comfort



Network Thermostat Controller

integrates electromechanically controlled HVAC equipment

- Monitors and controls Lennox® split systems and rooftop units, as well as electromechanically controlled third-party equipment
- Up to two-heat, three-cool capability
- Can be combined with optional bypass controller for constant-volume bypass zoning applications
- Fused outputs and override switches simplify installation testing, setup, and provide added protection



Zone Controllers and Sensors provide basic control at each zone

Zone Link

located in the rooftop unit or mechanical room

- Coordinates up to 31 Comfort Sensors connected to a zoned rooftop unit
- Counts heating and cooling votes from Comfort Sensors and signals the rooftop unit to change modes according to its configuration
- Can be used to expand L Connection® Network to coordinate up to 93 unit controllers per network



Comfort Sensor

located in each zone

- Temperature sensor with optional relative humidity and/or carbon dioxide sensing capabilities
- Controls zone damper or variable-air-volume terminal box in zoning applications to maintain space temperature and indoor air quality
- Optional LCD user interface with sensor readings and easy temperature adjustment

and basic building operations



Contractor's Management Office



Interface software supplies information to a PC from the L Connection® Network locally or remotely

Unit Controller Software

- Commission, monitor and control unit controllers, including Prodigy® unit controllers, Integrated Modular Controllers, Network Thermostat Controllers or Building Controllers
- Connects to the network locally, or remotely through a modem, via an Ethernet network or via the Internet*

Network Control Panel Software

- Schedule, monitor and control the entire L Connection® Network
- Configures alarms to automatically send e-mail notification to or page a facility manager or servicing contractor before problems get out of hand
- Records trends based on over 25 user-selectable data points that can be automatically graphed using Microsoft® Excel
- Generates, saves and prints a variety of reports
- Connects to the network locally, or remotely through a modem, via an Ethernet network or via the Internet*



L Connection® Network Modem

- Configured specifically for the L Connection Network
- Plug-and-play device requires no modification
- Use with L Connection Network software for access from a remote site



L Connection Network Ethernet Converter

- Configured specifically for the L Connection Network
- Allows users to monitor and control devices on the L Connection Network via their existing Ethernet local area network (LAN)
- Can be used to monitor and control devices on the L Connection Network remotely via the Internet*
- Can be used with Unit Controller Software and/or Network Control Panel Software

*Requires access to Ethernet local area network via the Internet.

Delivering enhanced benefits for your building

Expanded system capabilities

The L Connection® Network works with most split systems, rooftop units and third-party electromechanical equipment to enhance system performance and capabilities. A Building Controller module allows you to control a range of facility operations, such as lighting, signage, freezer cases and exhaust fans – all from one central location.

The system also makes it easy to create different heating and cooling zones to save energy and gain more precise control. Simply install a Zone Link module and your choice of Comfort Sensors and Bypass Dampers to achieve zoning capabilities. Adjustable configuration and integration options make the system easily expandable to accommodate future growth.

Advanced monitoring and troubleshooting

The Unit Controller software makes it simple to set up, program and monitor the entire system and provides an easy-to-understand description of each alarm code. It also allows remote connection to the network to monitor or troubleshoot the system.* With Network Control Panel Software, you can even trend the operation of the HVAC system for performance analysis.

Control functions from a desktop, not the rooftop

Network information can be accessed from a local or remote PC, making monitoring and diagnostics available from virtually anywhere at any time.



Plus, this software allows you to remotely access and control the system from virtually anywhere via the Internet or a network modem.* This lets a technician diagnose and correct certain problems remotely, saving service time and costs.

Increased time and money savings

The entire L Connection Network is designed to save you time and money, from initial setup to daily operation. User-friendly installation features include pre-programmed configuration parameters, easy field upgrades, a zone controller combined with modular sensors, an auto-poll start-up feature and intuitive interfaces.

You'll also enjoy improved efficiencies and reduced operating costs throughout the year, thanks to the system's streamlined controls and comprehensive software packages. This easy-to-use software can provide trending and diagnostic reports that not only reduce system maintenance, but also help prolong the life of the equipment. These combined savings ensure the lowest total cost of ownership.

Solutions for customized comfort

Don't just choose a Lennox® product—choose a Lennox Commercial Comfort System. These complete packages of HVAC solutions provide tools to create a healthy and comfortable environment.



Packaged Units

- Energence® Rooftop Units
- Strategos® Rooftop Units
- Landmark® Rooftop Units
- Raider™ Rooftop Units



Commercial Controls

- Systems Integration Solutions
- Commercial Thermostats
- L Connection® Network



Solar Ready

- SunSource® Commercial Energy System



Indoor Air Quality

- Humiditrol® Dehumidification System
- Demand Control Ventilation
- Air Filters
- UVC Lamps



Split Systems

- S-Class® Air Conditioners/Heat Pumps
- T-Class™ Air Conditioners/Heat Pumps
- Air Handlers
- Indoor Coils



Heating

- Unit Heaters
- Duct Furnaces
- Furnaces



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