



# Comfort and economy on a floor-by-floor basis



## Economical building comfort

The L Series Self-Contained Units are designed to keep a building comfortable year round. This is done without compromising operational cost or flexibility at one of the lowest installed costs possible.

In a multi-story building, one or more L Series units provide comfort for each floor, or for sections of the floor, depending on the building layout. This allows for customized comfort on a floor-by-floor and occupant-by-occupant basis.

The smart, modular design occupies one of the smallest footprints in the industry, maximizing useable floor space, yet still offering easy service access. The modular design eliminates the need for expensive demolition and rebuilding mechanical room walls in retrofit and remodeling applications. Reassembly of the L Series modules is simplified because no refrigeration connections are required between modules. Hinged access doors provide convenient, long-term service access.

Building owners can also count on excellent operational efficiency. Water-cooled units are inherently more efficient than air-cooled units. A waterside economizer extracts maximum cooling capacity from the water, minimizing expensive compressor run time. Scroll compressors used ensure efficient operation, even at lower cooling capacities.

## WATER-COOLED COMMERCIAL SELF-CONTAINED L SERIES

Along with comfort, occupants expect quiet operation. The L Series features a plenum fan to move conditioned air into the occupied spaces. The fan's efficiency coupled with the unique placement of internal components reduces noise.

To meet Indoor Air Quality requirements, a double sloped stainless steel drain pan and condensate trap minimize the potential for harmful organic growth. Filtration options are also available to meet local building code requirements.

In order to operate reliably, the L Series has built-in redundancy. Each unit consists of multiple, independent refrigeration circuits equipped with compressors and thermo expansion devices. Service can be performed on any of the refrigeration circuits while other circuits continue to run normally, minimizing overall machine downtime.

A controller is standard on each L Series unit to orchestrate efficient and reliable operation. This controller makes integration to the building automation system easy and straight forward either through BACnet® or Modbus. A keypad and display on the controller make servicing the unit easy. Additionally, diagnosing possible problems is simple since the last 10 fault codes which the unit experienced are stored and the controller has overall system data logging capabilities.

- Cooling capacities: 25 to 105 tons
- Meet or exceed ASHRAE 90.1 energy standards
- Factory-mounted controls for easy set-up and programming
- Double-sloped drain pan enhances Indoor Air Quality
- Small footprint and reduced service clearances maximize the useable floor space in a building
- Single-point power connection reduces field wiring costs
- Modular design fits easily into tight spaces
- Plenum supply fan minimizes the acoustic impact to adjoining occupied spaces

**Capacities**  
25 -105 tons

**Efficiency**  
Meet or exceed ASHRAE  
90.1 energy standards



L SERIES HIGH EFFICIENCY									
Model	Cooling Capacity (BTU/Hr)**	Efficiency		Heating			Dimensions		
		EER	IEER	Electric	Hot Water	Steam	Depth (in)*	Length (in)	Height (in)
25	313,000	15.3	18.1	Y	Y	Y	70	78	79.5
32	399,000	14.2	16.1	Y	Y	Y	70	78	79.5
35	428,000	14.2	16	Y	Y	Y	70	78	79.5
40	480,000	13.6	16	Y	Y	Y	70	78	79.5
50	602,000	14.9	17.8	Y	Y	Y	76	100	90
60	712,000	13.8	16.9	Y	Y	Y	76	100	90
70	867,700	14.5	18.2	Y	Y	Y	96	130	102
80	952,000	14.1	18.2	Y	Y	Y	96	130	102
95	1,177,000	14.1	18.1	Y	Y	Y	96	130	102
105	1,306,000	13.7	17.7	Y	Y	Y	96	130	102

\* Excluding Filter Section

\*\* CONDITIONS: Entering air = 80°F db / 67°F wb Water = 85°F entering / 95°F leaving

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