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Updated Line of Air-Source VRF Outdoor Units Offers Improved Efficiencies Using Advanced Heat Exchanger Technology

SUWANEE, Ga., November 8, 2017 – [Mitsubishi Electric US, Inc. Cooling & Heating Division](#) (Mitsubishi Electric), a leading manufacturer of Zoned Comfort Solutions™ and Variable Refrigerant Flow (VRF) cooling and heating systems, features the latest innovation in Variable Refrigerant Flow (VRF) technology – the [CITY MULTI® L-Generation Air-Source outdoor units](#). The L-Generation (6 to 30 tons; single modules up to 14 tons) has achieved significantly improved efficiency ratings (see chart, Page 2)



due to **HexiCoil™ technology**, a zinc-aluminum flat tube heat exchanger that maximizes heat transfer capability through its unique fin shape. Increased efficiencies across all categories make this outdoor unit ideal for projects with efficiency goals such as LEED® certification or net zero status.

“The L-Generation, with its HexiCoil technology, represents a significant enhancement in efficiency and operation for the VRF category,” says Kevin Miskewicz, director, commercial marketing, Mitsubishi Electric US, Inc. Cooling & Heating Division. “This coil redesign includes turbulated tube walls and an optimized cross section, ensuring maximum heat transfer ability. This advancement directly leads to improved efficiencies, particularly at part load conditions.”



Traditional copper tube design (left); Mitsubishi Electric HexiCoil turbulated design (right)

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The unique fin design of the HexiCoil product, along with its zinc outer coating, provides superior water shedding capability and corrosion resistance, prolonging the outdoor unit's lifespan. The capillary tube system ensures even fluid distribution, further contributing to superior heat transfer ability.

Other L-Generation enhancements include:

- **30 percent smaller footprint** than previous models, making the system ideal for projects with tight mechanical spaces.
- **Up to 50 percent reduction in system refrigerant charge**; refrigerant circuit design optimized for improved flow distribution.
- **Improved high-ambient cooling operating range**; guaranteed cooling operation up to 126 degrees Fahrenheit.
- **Improved vertical separation between indoor units** within the same heat recovery system – a distance of up to 98 feet – expanding design options.

L-Generation Efficiency Improvements (vs. K-Generation)			
		<u>R2-Series</u> <u>(heat recovery)</u>	<u>Y-Series</u> <u>(heat pump)</u>
<u>EER</u> (Energy Efficiency Ratio)	Average (all models)	↑ 7%	↑ 12%
	Select models (up to)	↑ 20%	↑ 19%
IEER (Integrated Energy Efficiency Ratio)	Average (all models)	↑ 24%	↑ 29%
	Select models (up to)	↑ 31%	↑ 36%
COP (Coefficient Of Performance)	Average (all models)	↑ 9%	↑ 4%
	Select models (up to)	↑ 16%	↑ 9%
SCHE (Simultaneous Cooling and Heating Efficiency)	Average (all models)	↑ 33%	n/a
	Select models (up to)	↑ 54%	n/a

As with all Mitsubishi Electric VRF systems, the outdoor units are designed for the quietest possible operation – 58 to 65 dB(A). All models in the L-Generation now include a bellmouth grill with a DC fan motor, which reduces static pressure while minimizing power input.

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About Mitsubishi Electric US, Inc. Cooling & Heating Division

Mitsubishi Electric US, Inc. Cooling & Heating Division (Mitsubishi Electric) is headquartered in Suwanee, Georgia. Mitsubishi Electric is a leading marketer of Zoned Comfort Solutions™ and Variable Refrigerant Flow (VRF) air-conditioning and heating technology in North America, Latin America, the Caribbean and Bermuda. In 1982, Mitsubishi Electric introduced its state-of-the-art, ductless air conditioners and heat pumps in North America and later expanded its product line with VRF zoning heat pump systems using INVERTER technology to offer simultaneous cooling and heating capabilities. The division also offers compressors and a full line of air-conditioning accessories. Mitsubishi Electric products have won more than 58 innovation and excellence awards, including the 2015 Record Products Award from *Architectural Record*, a 2015 ACH&R News Dealer Design Award, a 2016 Product Innovation Award from *Architectural Products*, a 2015 AHR Expo Innovation Award from *ASHRAE*, a 2016 *College Planning & Management* New Product of the Year Award, a 2016 *School Planning & Management* New Product of the Year Award, a 2016 and 2017 Money-Saving Products Award from *BUILDINGS*, a 2017 Excellence in Design Award from *Appliance Design* and a 2017 Product of the Year Award from *Consulting-Specifying Engineer*. More information is available at www.mehvac.com and at Mitsubishi Electric's [blog](#). Mitsubishi Electric is also on [Facebook](#), [Twitter](#), [Pinterest](#) and [YouTube](#).

In addition to cooling and heating products, [Mitsubishi Electric US group companies'](#) principal businesses include semiconductor devices, automotive electrical components, factory automation products and services, elevators and escalators, solar modules, electric utility products and large-scale video displays for stadiums and arenas. Mitsubishi Electric US group companies have roughly 31 locations throughout North America with approximately 4,000 employees.

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