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Mitsubishi Electric Offers Energy-efficient Personal Comfort Control for Commercial Applications

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, offers energy-efficient personal comfort control for a variety of commercial applications. Variable Refrigerant Flow (VRF) zoning is an innovative technology that cools or heats each room or zone in a building to the precise level needed, maximizing occupant comfort and energy efficiency. Popular commercial applications include both new construction and renovations in education, hospitality, health and wellness, multifamily and mixed-use facilities, among others.

Mitsubishi Electric was the first manufacturer to introduce VRF technology to the U.S. market over 10 years ago. The systems connect one outdoor unit (pictured left) to as many as 48 indoor units (one style is pictured below, right) through small piping and electrical wiring.

"VRF technology is a smarter way to cool and heat buildings," says Kevin Miskewicz, director, commercial marketing, Mitsubishi Electric US, Inc. Cooling & Heating Division. "Traditional cooling and heating systems require tremendous energy to force air from a central blower to a room through a complex system of ductwork, which uses space in

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buildings and wastes energy. With VRF systems, installation time and costs are reduced, building occupants are comfortable and energy bills are lower."

Other key benefits of Mitsubishi Electric's VRF zoning systems include:

- **Personalized comfort control.** Mitsubishi Electric systems offer advanced user-friendly climate control options for buildings using an intelligent proprietary controls network, including functions such as individual metering and centralized temperature control and monitoring.
- **Energy efficiency.** VRF systems consistently use 30 to 40 percent less energy than conventional HVAC systems and are designed to help buildings earn Leadership in Energy and Environmental Design (LEED®) points from the U. S. Green Building Council (USGBC). Up to 89 percent of the materials used to build a standard CITY MULTI® system are recyclable, minimizing landfill impact.
- **Hyper-Heating INVERTER™ (H2i®) technology**. Mitsubishi Electric has seven years of cold-climate heat pump experience, and offers a complete family of hyper-heating products from single-zone 9,000 Btu/h up to multi-zone VRF systems of 16 tons. The H2i R2-Series, introduced in 2014, allows for 100 percent heating capacity at zero degrees Fahrenheit and simultaneous cooling and heating down to minus 4 degrees Fahrenheit.
- **Easier installation and operation.** VRF technology is advanced, but the system itself is straightforward to design and install. The system components are compact, resulting in minimized labor requirements, fewer materials, faster installation and a lower operating cost.
- **Quiet operation.** VRF systems are designed to provide the quietest possible operation for both indoor and outdoor environments. Indoor units operate between 19 and 34 decibels – quieter than a human whisper.
- **Simultaneous cooling and heating.** Mitsubishi Electric's CITY MULTI R2-Series VRF System can simultaneously cool and heat different zones in a building with the industry's only two-pipe design. The multi-zone system offers the

capability for each zone to be set to optimum temperatures, according to each individual room's conditioning requirements.

Click here to learn more about Mitsubishi Electric US, Inc. Cooling & Heating Division and VRF zoning technology.

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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.

Contact: Erica White
Griffin & Co./ LMO
703/797-7126

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