

New generation of VRF systems with top-class energy-saving performance

- **Up to 33% better SEER values**
- **Redesigned scroll compressor enables energy savings**
- **Variable low-noise mode**

Ratingen, 20 July 2018 – In its new generation of VRF City Multi systems, Mitsubishi Electric has focused on achieving maximum energy savings. Several efficiency values have been improved – in some cases by up to 33% – thanks to the revamp of many of the unit's core components. With a completely redesigned heat exchanger, enhanced functionalities, state-of-the-art compressor technology and optimised fan blade, the systems have all the elements that are key to using energy as efficiently as possible. "In addition to cost-effectiveness, with the new generation of City Multi VRF systems we have placed particular emphasis on the demands of our customers for an air-conditioning system that performs at the highest level," explains Dror Peled, General Manager Marketing at Mitsubishi Electric, Living Environment Systems.

The outstanding efficiency of the systems has been achieved thanks to several new developments. For example, the scroll compressor has been redesigned. With a multi-port mechanism and an extended control range, the compressor now enables additional energy savings, especially during partial load operation. The fan has also been optimised and the units operate with a four-way air intake system. A further aspect that contributes to reducing energy consumption is the variable evaporation temperature. If necessary, the discharge air temperature can be raised. In addition to its convenience, this feature also saves energy and costs.

The improvements to the core components not only make the systems more energy efficient than their predecessor model (YLM), they also provide top-class energy-saving performance. The SEER value (seasonal energy efficiency) of the YNW series has been improved by up to 33%. The new heat exchanger in City Multi outdoor units, for instance, makes a contribution to increased energy efficiency of up to 8%. The Seasonal Coefficient of Performance (SCOP) has been improved by 19%. These efficiency figures are verified by Eurovent certification.

Another new feature is the variable Low Noise mode of the outdoor units. Whereas previously, the standard Low Noise mode had just three settings – 100%, 50% and Off – there are now 5 selectable noise levels. In addition to full speed, the customer can also select 85%, 70%, 60% or 50% of nominal speed as required via the DIP switches on the outdoor unit. All the latest developments and the most important aspects are detailed on the website vorsprung.mitsubishi-les.com. The site is part of the marketing campaign with which Mitsubishi Electric is accompanying the launch of the new units. The campaign is aimed specifically at installers, designers and investors. The information on the website is presented in a manner appropriate to the relevant target group.

Other features of the new City Multi generation include an optimised BC controller in the VRF R2 system for simultaneous heating and cooling, a USB connection and an alternating defrost function. The latter provides significantly more heating comfort as heat output of up to 50% is maintained during defrosting. The more compact dimensions of the BC controller and the provision of up to eleven sub-controllers offer even more design flexibility. The unit's operating data can be read out quickly, easily and reliably via the on-board USB connection. The new City Multi brochure contains all technical data.

The units also boast a compelling design, and with their stylish looks blend discreetly into their surroundings. A wide range of indoor units are available for City Multi VRF systems. In addition, the LEV connection kit enables the outdoor units to be connected to a selection of Mitsubishi Electric M Series indoor units. This allows the creation of a flexible and precise solution for every requirement.

Further information is available from Mitsubishi Electric Europe B.V., Mitsubishi-Electric-Platz 1, 40882 Ratingen, E-Mail: les@meg.mee.com, Tel.: 0 21 02 - 4 86 - 0, www.mitsubishi-les.com.

About Mitsubishi Electric

For nearly 100 years Mitsubishi Electric Corporation has supplied both corporate clients and general consumers all over the world with high quality products from the information processing and communications, space development and satellite communication, consumer electronics, industrial technology, energy, transportation and building equipment as well as air conditioning and heating technology sectors. With around 138,700 employees, the company recorded consolidated group sales of \$37.8 billion* in the fiscal year ended 31/03/2017. Sales offices, research and development centres and manufacturing plants are located in over 30 countries. Mitsubishi Electric has been represented in Germany as a subsidiary of Mitsubishi Electric Europe since 1978. Mitsubishi Electric Europe is a wholly owned subsidiary of Mitsubishi Electric Corporation in Tokyo.

* Exchange rate 113 yen = 1 US dollar, as at 31/03/2017 (source: Tokyo Foreign Exchange)

Further information:

<http://global.mitsubishielectric.com>

<http://www.mitsubishielectric.de>

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The new outdoor units achieve up to 33% better SEER values.



The screenshot shows a website page for Mitsubishi Electric's City Multi VRF outdoor units. At the top left, the Mitsubishi Electric logo and tagline "Changes for the Better" are visible. The main heading reads "Vorsprung. Ausgebaut." followed by "Die neuen City Multi VRF Außengeräte". To the right is an image of a white outdoor unit. Below this, a text block states: "Bis zu 98% höhere saisonale Energieeffizienz und viele neue Vorteile für alle, die zum Kulturbau sind. Heizen, kühlen, kühlen mit Zukunft. Kühlen. So machen wir Wissen zu neuen Lösungen. Und bauen Ihren Vorsprung aus." Below the text are three small portrait photos of men, each with a small red icon. At the bottom of the page, there is a navigation bar with the text "Kontaktieren Sie uns" and a footer with the website URL "www.vorsprung.mitsubishi-les.com".

Mitsubishi Electric is accompanying the launch of the next generation of its City Multi series with a comprehensive campaign, including the website vorsprung.mitsubishi-les.com.

Photo: Mitsubishi Electric
Date: 20/07/2018