



Kelvion R/GV-M Condenser and Gas cooler

# IMPROVED CAPACITY DENSITY AND QUIETER OPERATION



## APPLICATION & BENEFITS

- ▶ R/GV-M V-Profile configuration is suitable for many applications: The single row of fans and narrow V angle make it ideal for installation requiring a high capacity density – small footprint. The many combinations of fin type, coil rows and module lengths make it possible to perfectly balance capacity, fluid pressure loss, internal volume and refrigerant charge. As well as standard copper tubes for 32, 45 and 120 bar, options are available with stainless steel tubes for 32 bar (NH<sub>3</sub>) and 120 bar CO<sub>2</sub> on request.
- ▶ The R/GV-M ranges are available with the latest fanset innovations. Kelvion independently tests and balances coils against all possible coil configurations to ensure optimum fan performance when on the unit. The result is the perfect combination every time for the range of potential unit configurations.
- ▶ Eurovent certify-all: independent certification for thermal performance, power consumption, sound data and unit air volumes for standard products under scheme limits.
- ▶ CE Marked, PED compliant and UL Certified: Kelvion products can be supplied from SEP up to category IV





## CAPACITY RANGE

**HFO/HFC**      **7.4 kW - 520 kW**  
 $t_{Li}=25^{\circ}\text{C} \mid t_o=40^{\circ}\text{C} \mid \text{DT}=15\text{K} \text{ [SC1]}$

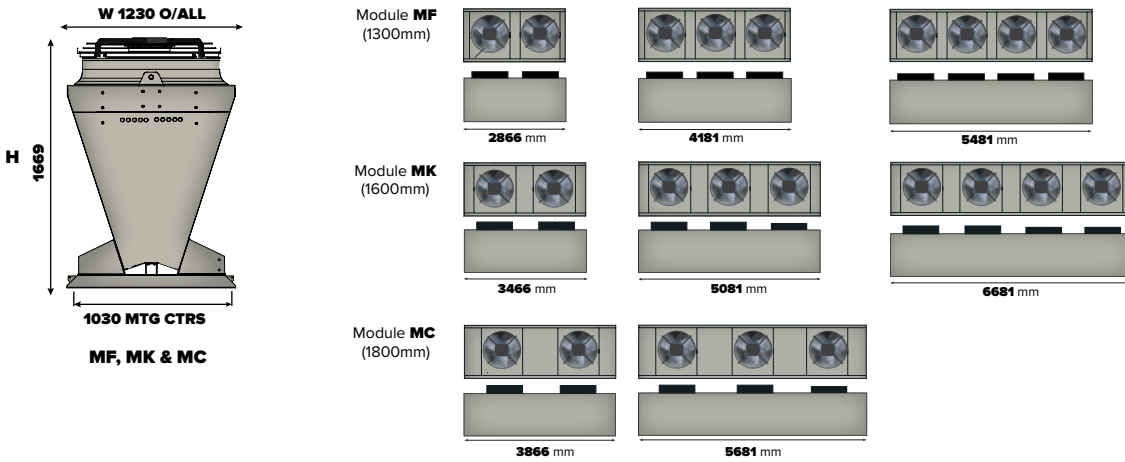
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**C<sub>2</sub>**      **7.0 kW - 490 kW**  
 $t_{Li}=30^{\circ}\text{C} \mid P_{R1}=90 \text{ bar} \mid t_{R1}=110^{\circ}\text{C} \mid t_{R2}=35^{\circ}\text{C} \text{ [SC20]}$

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# DIMENSIONS



## FANS

▶ AC Normal	Ø 800 mm	▶ Min IP 54
▶ AC High power	Ø 910 mm	▶ 6, 8, 12 Pole and EC
▶ EC Standard		▶ 1 & 3 phase
▶ EC High power		▶ 50/60 Hz
▶ EC Low power		▶ 1 - 4 fans

## HEAT EXCHANGE

▶ Fin Type: L, T, G
▶ Standard Fin spacing: [mm] L = 2.1   T = 2.3   G = 2.1
▶ Fin Material: Cu, Al, Av, AlMg, Bg
▶ Tube Diameter: [mm] 9.5   12   8
▶ Tube material: Cu, St/St

## CONTROLS OPTIONS

OPTION	DESCRIPTION
Kelvion SmartControl	Connected to the Kelvion cloud to give live operational data
Unwired	Installer wires directly to fan terminal boxes.
Junction Box	Single or twin according to unit model.
Staged Control (AC Fan sets)	Motor switchgear with or without controller.
Speed Control	EC, inverter or triac.
Modbus	Options for control communication of fan and control

## VARIANTS & ACCESSORIES

▶ Control Box & Isolators
▶ Sub cooling/Multi sections
▶ Alternative Fin Material
▶ Special Paint
▶ Adiabatic System
▶ Mounted Receivers
▶ Extended Legs
▶ Customised Housing

## OPERATING ENVIRONMENT GUIDANCE

APPLICATION ATMOSPHERE	TUBE MATERIAL	FIN MATERIAL
Commercial Application	Cu or St/St	Al, AV, AlMg, Cu, Bg
Industrial Application	Cu or St/St (NH <sub>3</sub> must be St/St)	Al, AV, AlMg, Cu, Bg
Within 20 miles of the Sea	Cu	Cu, Bg, AlMg
Waste Disposal	Cu	Al, AV, AlMg, Cu, Bg

## NOTE

Selection and Pricing on all products can be performed on the **Selection Software** which can be downloaded from our website [www.kelvion.com](http://www.kelvion.com)

**NOTE:** The Tube material will suit fin Material