



## GM R290

Propane monoblock units  
with avantgarde management technology

- › Use of natural and efficient refrigerant R290 (GWP 3)
- › Low refrigerant charge <150g
- › Medium and low temperature range
- › Hermetic piston compressors
- › Hot gas defrost
- › Air or water condensation (for water: plate exchanger and water solenoid valve)
- › Expansion by capillary tube for air condensation and thermostatic valve for water condensation
- › Eliwell electronic controller
- › Serial output for connection to monitoring system
- › Different voltage available
- › The F-gas regulations do not apply to systems that contain only natural refrigerants such as propane (R-290)



## A versatile units' range with low running costs

The models of the GM R290 range are monoblock units characterized by compactness, suitable and accessible to anyone looking for a type of wall installation.

The refrigerant charge is low (<150g) and the refrigerant R290 has a low GWP index.

Suitable for small rooms, this range is composed by 2 lines: the MGM for medium temperatures (max 22m<sup>3</sup> at Tc= +0°C, Tamb= +30°C) and the BGM for low temperatures (max 5m<sup>3</sup> at Tc= -20°C, Tamb= +30°C).

It is possible to have the unit with air or water condensation (for water: plate heat exchanger and water solenoid valve).

This range of monoblocks, characterized by remarkable compactness, allows to optimize the useful space inside the cold room, guaranteeing excellent performance and reliability.

The robustness, simplicity of installation and extreme easiness of use represent the strong points of these units range, as well as guaranteeing high efficiency in heterogeneous working conditions.

The reciprocating hermetic compressor and the programmed automatic hot gas defrosting, with cycle frequency, make the GM R290 a stand-alone and reliable machine, without the need for recurring maintenance.

The condensation water elimination system is automatic and does not require external connections allowing a clean and autonomous operation thanks to the condensate water evaporation tray available in the standard configuration of the unit.

The electrical panel of the unit has an electronic control unit whose operating parameters are already programmed, it manages the GM R290 and allows the signalling of any anomalies.

### Standard configuration

- › Hermetic compressor
- › Power supply 220-230/1N~/50
- › Air condensation
- › 100mm legs
- › Hermetic compressor
- › Ceiling installation for covered areas - air cooled condenser (capillary tube) Tmin 20°C - Tmax 45°C
- › Ceiling installation for covered areas - water cooled condenser (thermal expansion valve) Tmin 10°C - Tmax 48°C
- › Electronic control panel
- › Expansion through capillary tube
- › Liquid line filter
- › Door micro switch cable
- › Cable for door switch heater on low temperature units
- › Condensate water evaporation drip tray
- › Drain heater BT
- › Straddle mounting or through wall configuration
- › High and low pressure switches
- › Cables length 5m
- › Electronic controller Eliwell IWP750 with sealed contacts of relays
- › Serial output RS485
- › Atex power relays for compressors
- › Fans with thermalprotection
- › Max refrigerant charge 150g for circuit
- › Air or water condensation (plates condenser and water solenoid valve)
- › Hot gas defrost



### Personalization options and accessories

#### Condensation options:

- › Water condensation

#### Power supply:

- › 220-230/1N~/60

#### Evaporator:

- › 100mm legs + Kit pan
- › Audible and visual alarm
- › Remote control panel for 2 units with alternating operation

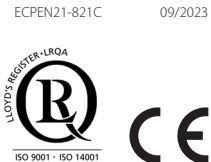
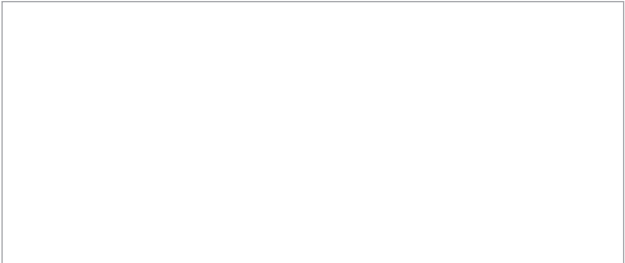
# Technical data



GM R290

Code	MEDIUM TEMPERATURE UNITS				LOW TEMPERATURE UNITS	
	MGM1280Y1AAA	MGM2210Y1AAA	MGM1280Y1WAA	MGM2210Y1WAA	BGM0870Y1AAA	BGM0870Y1WAA
Condensation	Air	Air	Water	Water	Air	Water
Refrigerant	R290	R290	R290	R290	R290	R290
Power supply [V/Ph~/Hz]	220-230/1N~/50	220-230/1N~/50	220-230/1N~/50	220-230/1N~/50	220-230/1N~/50	220-230/1N~/50
HP compressor	0,56	0,9	0,56	0,9	0,9	0,9
Defrost	Hot gas	Hot gas	Hot gas	Hot gas	Hot gas	Hot gas
PED category	0	0	0	0	0	0
Working temperature [°C]	+10 ÷ -5	+10 ÷ -5	+10 ÷ -5	+10 ÷ -5	-15 ÷ -25	-15 ÷ -25
Cooling capacity [Watt] Air: [TC=0°C   TA=30°C] Water: [TC=0°C   TW=30°C]	1.281	2.206	1.373	2.329	-	-
Cooling capacity [Watt] Air: [TC=-20°C   TA=30°C] Water: [TC=-20°C   TW=30°C]	-	-	-	-	871	903

**Responsible Editor:** Zanotti S.p.A. Via M.L. King, 30 · 46020 Pegognaga (MN) · Italy · [www.zanotti.com](http://www.zanotti.com) · P.IVA IT01856570203 · REA 220625



The present publication is drawn up by way of information only and does not constitute an offer binding upon Daikin Europe N.V. Daikin Europe N.V. has compiled the content of this publication to the best of its knowledge. No express or implied warranty is given for the completeness, accuracy, reliability or fitness for particular purpose of its content and the products and services presented therein. Specifications are subject to change without prior notice. Daikin Europe N.V. explicitly rejects any liability for any direct or indirect damage, in the broadest sense, arising from or related to the use and/or interpretation of this publication. All content is copyrighted by Daikin Europe N.V.