



**AIR CONDENSING UNIT FOR OUTDOOR INSTALLATION**  
**ERACLE – GMC\_SCREW**

**GENERAL TECHNICAL DESCRIPTION**

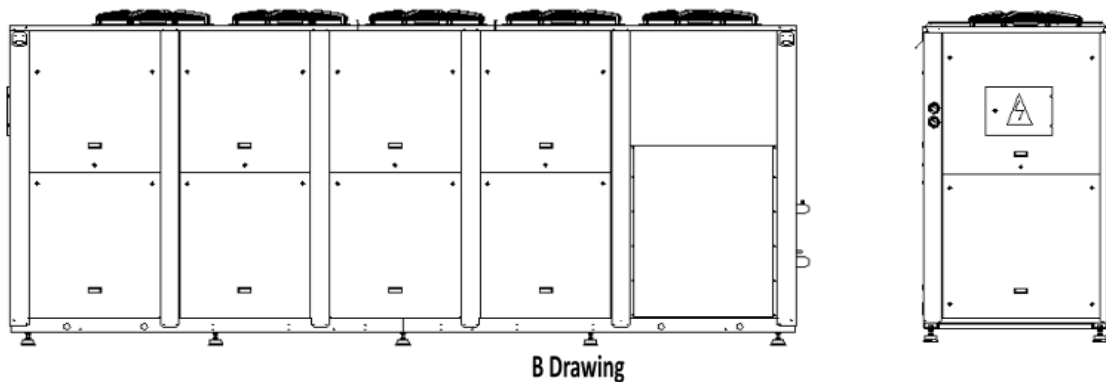
ERACLE – GMC\_SCREW series, consists of air condensing units for outdoor installation, equipped with semi-hermetic twin screw compressors. Units are realized with a strong self-supporting steel frame welded with pressbent metal sheet profiles, and then completed with removable panels; removable and permanent connecting elements in stainless steel. All components of the steel frame are polyester coated, color RAL 7035. The series is available for low evaporating temperatures (VSBT).

- VSBT -> Low temperature (-30/+45°C)

In the standard version, **ERACLE - GMC\_SCREW** series is equipped with :

- ❖ Semi-hermetic twin screw compressors with: discharge valve with built-in check valve, suction valve;
- ❖ Economizer kit, consisting of: brazed plate evaporator (BPHE) complete with Armaflex insulation of suitable thickness, filter drier, humidity indicator, solenoid valve, mechanical thermostatic expansion valve, ECO pressure switch
- ❖ Oil separator (PED certified) with: oil heating resistors, oil thermostat, oil level control light, high pressure dual safety valve (PED certified) with 3-way exchange valve
- ❖ Hot gas discharge line with: non-return valve, shut-off valve
- ❖ Oil return kit consisting of: oil filter, solenoid valve, flow switch, sight glass, shut-off valve
- ❖ Air cooled oil cooler
- ❖ Air cooled condenser made of: condenser with cooper tubes and aluminium fins, fans with grid and nozzle
- ❖ Condensed liquid return line with: liquid receiver with IN / OUT shut-off valves, high pressure dual safety valve (PED certified) with 3-way exchange valve
- ❖ Discharge liquid line with: filter drier with interchangeable cartridges, sight glass, shut-off valve, solenoid valve
- ❖ Suction line with: Armaflex insulated liquid separator of suitable thickness with: safety valve (PED certified), electric heating resistors
- ❖ Metal mesh filter and shut-off valve on the return line from the utilities.
- ❖ Refrigerant low and high pressure manometers.
- ❖ High pressure switch (PED certified); low pressure switch
- ❖ Electronic regulator for the condensing unit management
- ❖ Electric control panel for the condensing unit management

**Units are supplied without lubricating oil and charged with protective dry nitrogen.**



**BRAND USED:**

- ❖ Compressors: BITZER
- ❖ Condenser fan: EBM; ROSEMBERG
- ❖ Electric/electronic components: SIEMENS; SCHNEIDER; FAE-FAGAN
- ❖ Circuit components: PARKER; CASTEL; GMC; DANFOSS;
- ❖ Safety/checks: RANCO; NGI; CASTEL
- ❖ Exchangers: STEFANI; WTK; ROENEST; SWEP; ONDA

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