

1 NEEDS OF THE NGV WORKSHOP

- Total or partial emptying of the gas installation of the vehicle. Whenever it is necessary to carry out an intervention in the gas installation that needs to depressurize the system.
- Inert with Nitrogen of the installation of gas or its components. Particularly in the case of taking part with open gas tanks or other systems that may contain a significant amount of residual gas.
- Total or partial recovery of the gas drained from the system. Especially when it comes to systems that contain high pressure gas in appreciable amounts and that are harmful to the environment.
- Total or partial filling of the system with gas. Especially when it comes to vehicles only gas and convenient to verify the tightness of the systems.



2 VEHICLE DEFUELLING

■ NGV MANUAL DEFUELLER

Very simple design system that allows the gas contained in the vehicle to be emptied through its connection in the vehicle's loading receptacle and the discharge in a vented line to the atmosphere.

■ CONNECTION ACCESSORIES

Through different accessories there is the possibility of connecting to different types of vehicle. The use of one or other accessories allows you to empty different vehicle models with just one device.

3 STORAGE INERTIZATION

■ INERTIZATION ACCESSORY

If it is desired to have a system that allows the gas installation of the vehicle to be inerted, the NGV Manual Defueller has an accessory line that connected to an external source of nitrogen, allows to introduce the N₂ to the vehicle and then empty it through the emptying system in order to carry out a sweep of the gas system and eliminate any risk of the presence of gas when dismantling the system.

4 AUTOMATIC DEFUELLING/FILLING

■ NGV AUTOMATIC DEFUELER

The draining equipment of similar design to the manual module but operating automatically associated with a compression system and auxiliary modules. The system allows to empty and fill through a compressor. The basic configuration discharges the gas into the atmosphere and has a compressor of 5 m³(s)/h, which must be connected to the low-pressure distribution network.

■ COMPRESSOR UPGRADING

The size of the compressor can be increased to 10 m³(s)/h and up to 40 m³(s)/h as standard options depending on the type of workshop.

■ AUTOMATIC OPENING OPTION

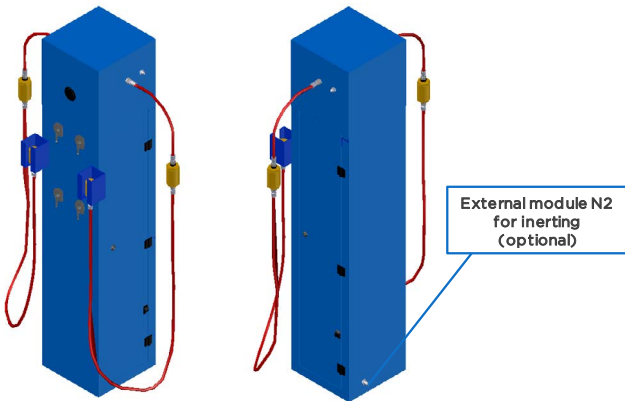
The equipment can be complemented with the option of automatic inerting as long as a source of nitrogen supply can be connected to the main equipment.

■ RECOVERY OPTION

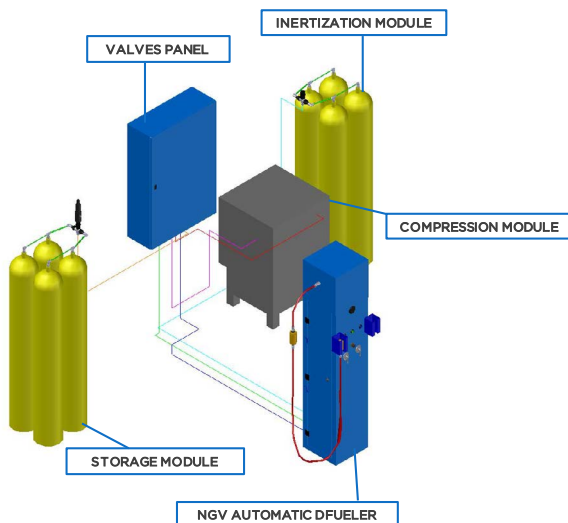
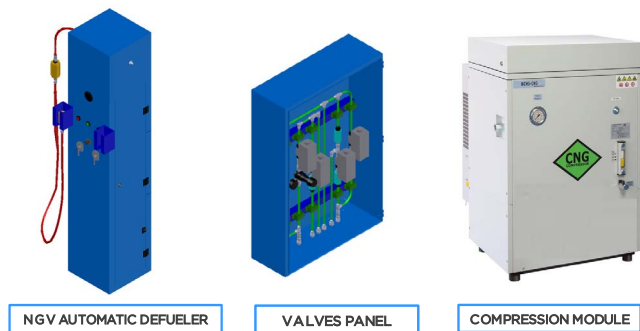
There is the possibility of recovering most of the gas contained in the vehicle and take advantage of it in subsequent filling operations. The recovery option has different sizes depending on the size of the vehicles: 1,000 l for light vehicles and 3,000 l for heavy vehicles. The recovery option is accompanied by a panel of valves and regulation equipment that allows the gas to be diverted where it is most convenient at any time.

5 BASIC CONFIGURATION

■ NGV MANUAL DEFUELLER



■ NGV AUTOMATIC DEFUELLER



6 GGE'S AFTER SALE: GHS

The after-sales service of GGE equipments is provided by GHS (GAS HELP SERVICES).

Through the GHS web platform, the GGE clients have access to:

- **Global Gas Help Services forums.**
- **Online shops for spare parts.**
- **Online library.**
- **Own equipment SCADA system.**
- **More specialized services.**

