



★ **DISTRIBUTION**
CRYOSTAR

Automatic Line System ★



★ *Presentation*

Automatic line systems control the entire pumping system from the reservoir tank to the outlet of gas at a predetermined pressure and flow. These systems have been created to be fully automatic and can be controlled at a distance through the remote maintenance facility.

★ *Quality*

Each Cryostar system is thoroughly tested in our workshops, including:

- Pressure tests
- Electric, pneumatic and PLC tests
- Operational tests

Every Cryostar system is developed in compliance with the norms CE (PED, ATEX...)

★ *Characteristics*

Maximum pressure	Up to 400 bar
Gases	N ₂ , Ar, O ₂ , He, H ₂ , CH ₄ , CO ₂ , N ₂ O, etc...
Operations	Pumping, vaporising, regulating
Automatic system management	Siemens PLC
Operator interface	Siemens Touch screen
Pump motor speed	One speed, two speed or variable



★ Features

1 - The pump itself and values such as gas temperature at outlet and return to the tank, pump housing and leaks are all controlled automatically. Outlet pressures, the status of the automatic valves during the input and return of the product as well as the venting valves are also controlled automatically by the PLC. The start up, cooling and regulated pauses can also be made completely automatic.

2 - The line control panel manages and controls the pressure and temperature of the line at the exit to the vaporiser and ensures the safety of the line in the case of excessive high pressure.

3 - The tank buffer can be managed and controlled using two pressure thresholds. In order to secure the whole unit, an automatic isolation valve can be installed, with the aim of isolating the tank buffer in the case of downward leaks

4 - Pressure is regulated at the system outlet by a pressure regulator set to a predetermined measure.

5 - The operator interface allows a visual presentation of the current status of various elements of the line and complete control of the number of cycles in operation. In case of error, the type of fault discovered is presented on screen and can be eradicated directly from the post.

The operating program is purposely very simple, ensuring a rapid and efficient understanding of the various menus and reducing training requirements.



★ Options

- Skid laser: complete system mounted onto a compact chassis.
- Remote maintenance
- Buffer capacity: Bottles or frames
- Electric pre-heater
- Supervision: for the reporting and archiving of data

For more details please contact your local Cryostar representative



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