



## Conventional electrical panels and accessories

The pumps can be equipped with electrical control panels and motor protection, which can be connected to alarms or control probes. Using the electrical panel it is possible to manage the operation of the pump and of the other complementary accessories such as control probes, electronic dampers, pressure switches, optional vacuum systems. The electrical panel is the most important of the accessories.



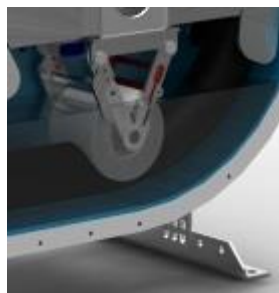
## Electronic panels.

In addition to guaranteeing protection to the electric motor, they allow to obtain the variable flow rate through the variation of revolutions, allow the management of operating parameters such as the torque control delivered by the motor, the progressive start and stop of the pump and allow the pump to be switched internal automation and advanced management systems such as transfer and dosing systems.



## rupture control probe for tubular membrane

The function of the probe is to intercept fluid spills inside the pump body, in order to avoid contact with potentially aggressive products for the mechanical components of the pump. The operation of the probe requires the presence of the electrical panel or an inverter panel.



## Retractable roller

Even during the inactivity phase, the Hose Carrier pump closes the hydraulic circuit as if there were a valve, this is due to the fact that a roller always compresses the tubular membrane, not allowing the fluid to pass even when the pump is stopped. This can sometimes be an obstacle for some activities such as in-place sanitation (CIP) as foreseen in some usage protocols (food, pharmaceutical). By means of the retractable roller it is possible to fold the roller laterally in order to allow the flushing provided for the cleaning and disinfection operations. It can be very useful to have the retractable roller when alternating cycles of great use and prolonged stops are expected for the pump. During the stop, the foldable roller does not press on the tubular membrane, considerably increasing the operating life of the membrane itself. The retractable roller is only available for some sizes of the pump family.

## Vacuum systems to increase suction performance



The purpose of the systems for increasing the vacuum is to favor the suction of the pump when working with high viscosity fluids. A special vacuum pump creates a condition inside the pump body that favors the "elastic memory" of the tubular membrane in the suction phase of the pump. There are essentially two types, one electromechanical by means of a vacuum pump, one electro-pneumatic by means of a vacuum generator, and a completely mechanical one currently under development.



## Pulsation dampers.

The purpose of the dampers is to make the pulsating flow rate of volumetric pumps such as Hose Carriers as linear as possible. They are not a necessary accessory for the pump, they are for the system as it is above all according to the system needs that must be sized and designed. There are different types of dampers, from simple air boxes and electro-pneumatic ones. The definition of this accessory is developed on a case-by-case basis.



## Trolleys

The pumps can be equipped with various trolleys for indoor or outdoor use. There are standard versions and on request with different accessories. The standard versions for internal use are equipped with solid rubber wheels, drawbar for slow towing on site, support feet, electrical panel holder. The versions for outdoor use can be completed with protective cages, foldable handles, lifting eyes, pneumatic wheels and various accessories.



## Special connections

The standard pumps are equipped with rubber-holder couplings, practical because they allow immediate application of the delivery and discharge piping. Different, flanged, quick couplings, tri-clamp, customized couplings are available on request.



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[www.schibuola.com](http://www.schibuola.com) - [info@schibuola.com](mailto:info@schibuola.com)

tel. 011-6991507 - 011-6502223 cell. 3355367761

