

Intelligent liquid ring vacuum pump

Edwards Vacuums developed the Elri series of liquid ring pumps for applications which are wet, humid as well as corrosive. The stainless steel impeller, end-plates, liquid reservoir and heat exchanger makes this pump highly resilient against corrosion and harsh process gases. The internal injection channels reduce the risk of leakage while the horizontal motor flange arrangement saves time on maintenance. The use of mechanical seals also ensures reliable operation by preventing leaks as well as extending service intervals. The Elri is equipped with two VSD. While the main VSD matches the speed of the pump to vacuum level by adjusting its

speed, the second VSD regulates the water flow through the centrifugal pump according to the operating conditions to avoid risks of cavitation. A special algorithm always maintains a perfect harmony between the two VSD's. The Air logic controller not only enables the monitoring of important features and parameters of the pump, but also offers the option of set-point control. While the Econtrol box even allows to connect and control multiple Elri pumps, the Icon Box enables smart monitoring and remote controlling ensures optimal servicing to get maximum uptime with the pumps.

www.cpp-net.com

Online search: Edwards



Picture: Edwards Vacuum

Tare-compensated feeder

Gericke's tare-compensated hybrid loss-in-weight feeders are well known for their combination of high accuracy feeding and robustness. The DIW-E-Star weighing system in conjunction with GAC feeders now covers the mid-range of feed rates in

the gravimetric hybrid feeder portfolio, typically from 10 up to 2000 kg/h (depending on bulk density). The DIW-E-Star is available with hopper sizes ranging from 50 to 200 l net volume. Due to the modular approach, all hopper sizes fit into one weighing frame. All hoppers are equipped with vertical agitators to ensure mass flow even for cohesive powders. The weighing frame itself has been designed to combine highest mechanical stability with a lightweight construction. Due to the tare-compensation mechanism the load cell only measures the actual product weight, and vibrations are filtered out mechanically before even reaching the load cell.

www.cpp-net.com

Online search: Gericke



Picture: Gericke

Sanitary filter housings



Picture: Wolftechnik - Martin-Wolf-Wegner

WS Sanitary housings from Wolftechnik are designed for use in sterile production. Depending on the product requirements, depth filter types can be used in the cartridge filter housings for clarification, as can pleated elements and membrane filter cartridges for sterilisation. The housings are made of stainless steel AISI 316L (1.4404) and have a mirror polished surface inside and outside. The surface roughness (Ra) is $<0.6 \mu\text{m}$ on the inside and $0.8 \mu\text{m}$ on the outside. Filter cartridges with bayonet adapters are provided for use. The standard range extends from a filter housing for a single filter cartridge in lengths of 10, 20 and 30" up to filter housings for seven filter cartridges in lengths of 10 to 30". WS Sanitary housings offer a variety of applications depending on the filter used. Filters differ in terms of filter material, pore structure, retention rate, and dirt absorption.

www.cpp-net.com

Online search: Wolftechnik

Drum emptying system with follower plate

The drum emptying system with follower plate from Lutz is supplied on a mobile trolley. A simple and convenient control system enables the commissioning. The manual, infinitely variable control of the FDA-compliant hydraulics gently deposits the follower plate on the medium. The conveying speed is infinitely variable and the containers are emptied almost pulsation-free. Sealing lips made of EPDM (also available in FKM or PTFE) adapt perfectly to the container. Due to the pressureless guidance, the pumped medium is not pressed out at the wall. Only a small amount remains in the container after emptying.



Picture: Lutz

Depending on the pump size and the drive motors that can be combined with it, flow rates of up to 120 l/min can be achieved. www.cpp-net.com
Online search: Lutz