

CLOSED LOOP OILER

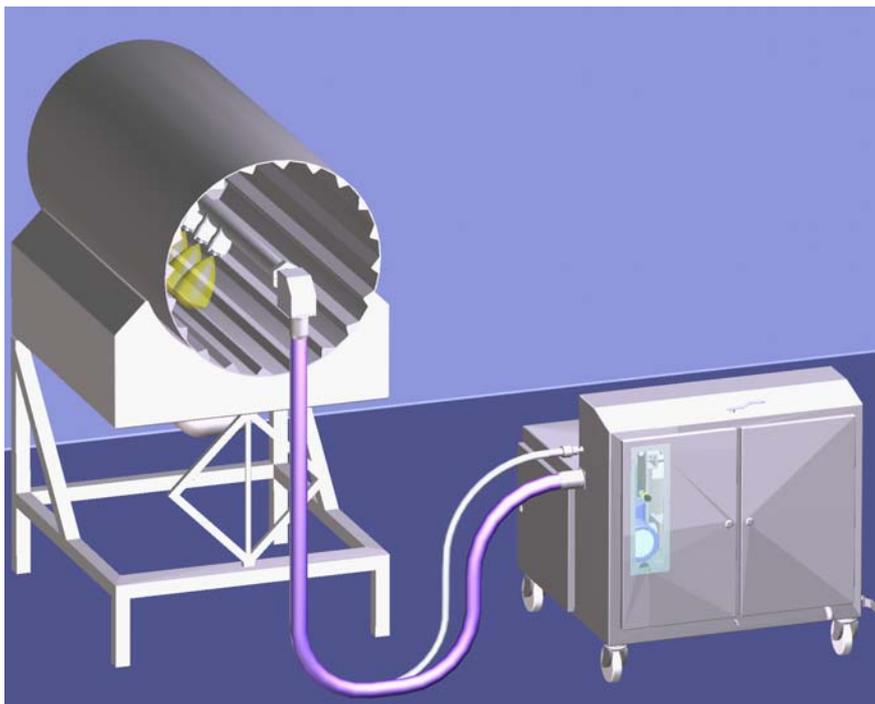


More and more in this health conscious world, producers are being asked not only to reduce the fat content of their products, but also to guarantee it. How can a producer confidently state a maximum fat content? How can an accurate quantity of oil be evenly applied over the product? The answer is Arcall's innovative Closed Loop oil application system.



How it works

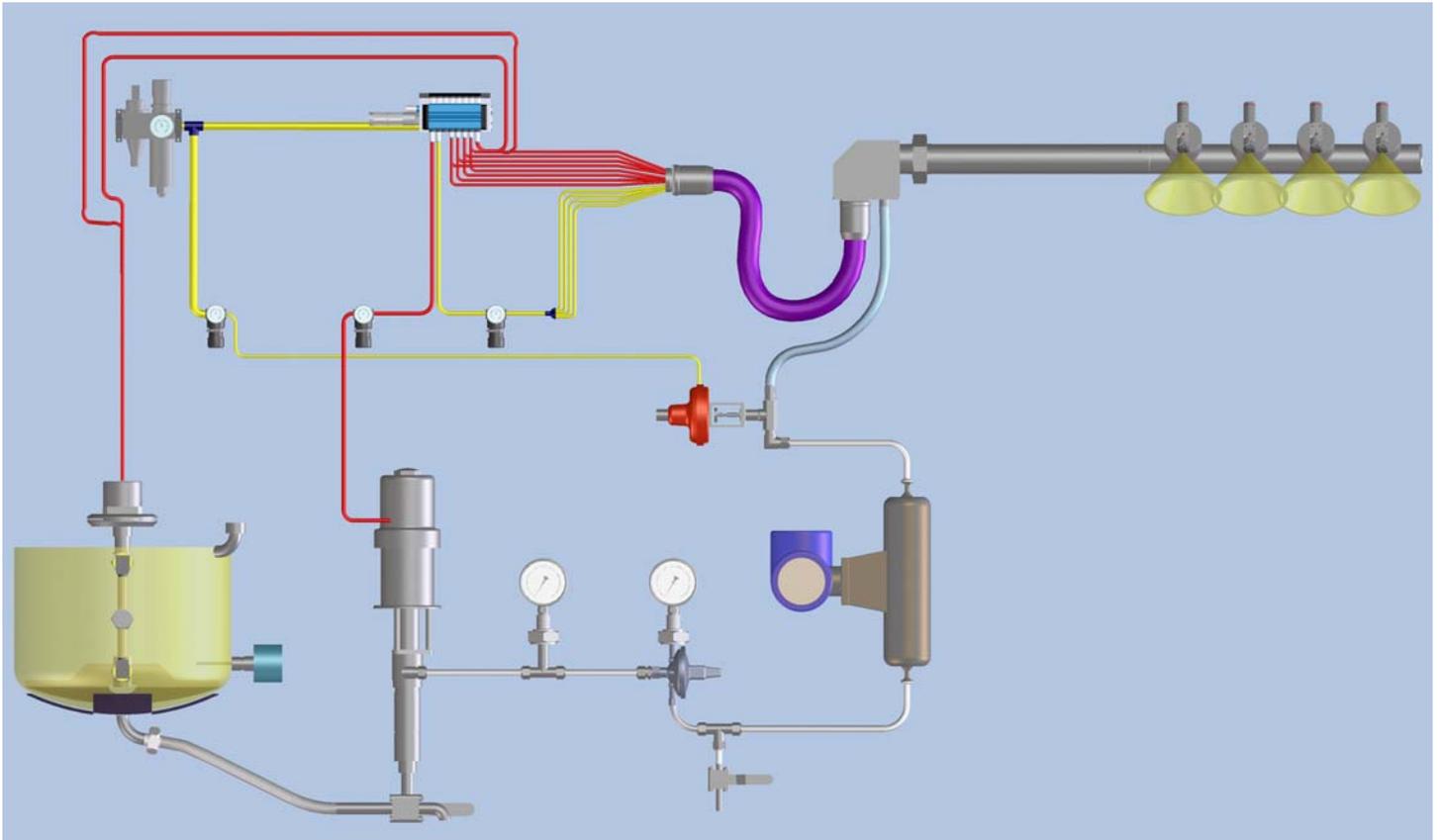
The base product is continuously weighed upon entry to the tumble drum; this weight is converted by a PLC into control signals to operate a control valve. If weighing equipment is not available, then the required oil application rate may be input by the operator. The amount of oil actually being applied is monitored, several times each second, by a state-of-the-art Mass Flow Meter and the flow constantly adjusted to match the demand. The employment of a Mass Flow Meter, in preference to the more common volume flow meter, means that changes in oil density have no bearing on the application rate. The PLC is capable of holding numerous recipes, so keeping operator involvement to a minimum.



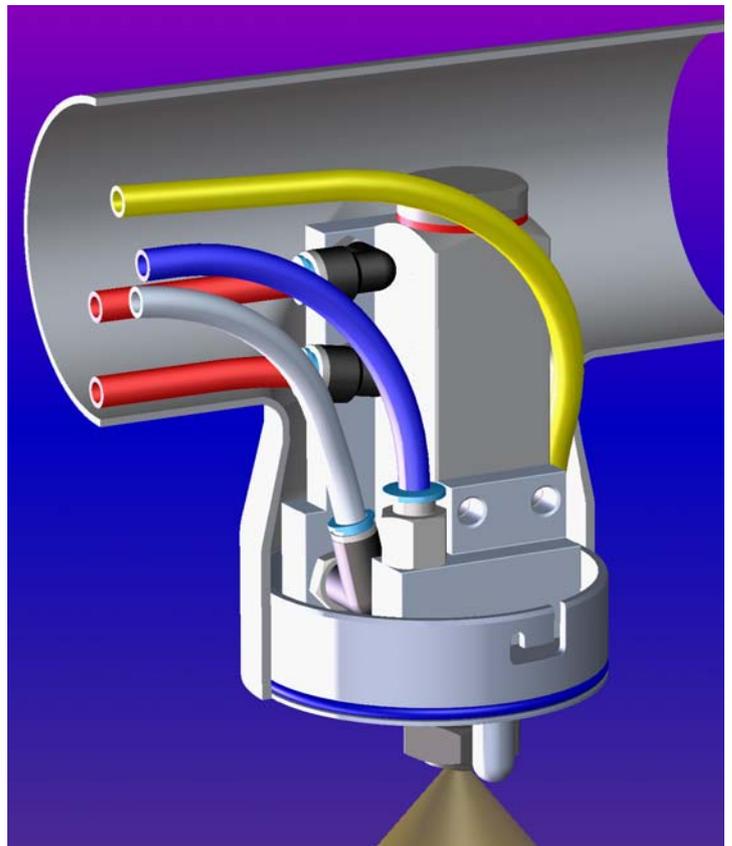
Output signals are available to record the oil usage, so allowing data acquisition to support the 'low-fat' declaration.

Engineering Quality For Food

Closed Loop Oil Application System



The FQB Spray Gun used in this system, has been designed for the food industry - Arcall, with 40 years experience of spraying for food applications, have manufactured the FQB Spray Gun to meet the needs of precise application with little mist, or waste. Spray is created by the use of a minute quantity of air, atomising the liquid at the exit of the gun. This allows a low pressure fluid flow in the pipework and reduces wear and inconsistency. With both positive opening and closing, each gun can be individually operated by plc for accuracy control to less than 1%.



UK - Arcall plc
 Westminster Road, Wareham,
 Dorset BH20 4SR England
 Tel: +44 (0) 1929 554884
 Fax: +44 (0) 1929 554466

Web: <http://www.arcall.co.uk>
 E-mail: sales@arcall.co.uk
 USA: sales@arcall.com

USA - Arcall Inc
 c/o Turkington USA LLC
 8182 US 70 West
 Clayton, NC 27520

Tel: 1 919 735 4570 Fax: 1 919 735 5275