

LEWA metering pumps in the food oil processing industry



Fig.: LEWA ecodos type 750S1. 316TiSS (1.4571) and PTFE wetted materials offer excellent corrosion resistance.

As the world's population grows, so does the industrial food market. It is not surprising that the demand for food oils is increasing worldwide. Today approximately 40 different plants are used in the production of food oils. Depending on the region various seeds and fruits are processed including soy, rape seed, sunflower, peanut, coconut, palm kernels, linseed, etc.

Well-known pulp oils are processed from olives, palm and avocado.

For more than a decade LEWA has supplied industry with diaphragm pumps for the production of food oils for household cooking. LEWA pumps are used in refining, **degumming** and **neutralisation** (deacidification) processes. Phosphoric acid, citric acid and caustic soda are some examples of dosing fluids LEWA pumps deliver successfully.

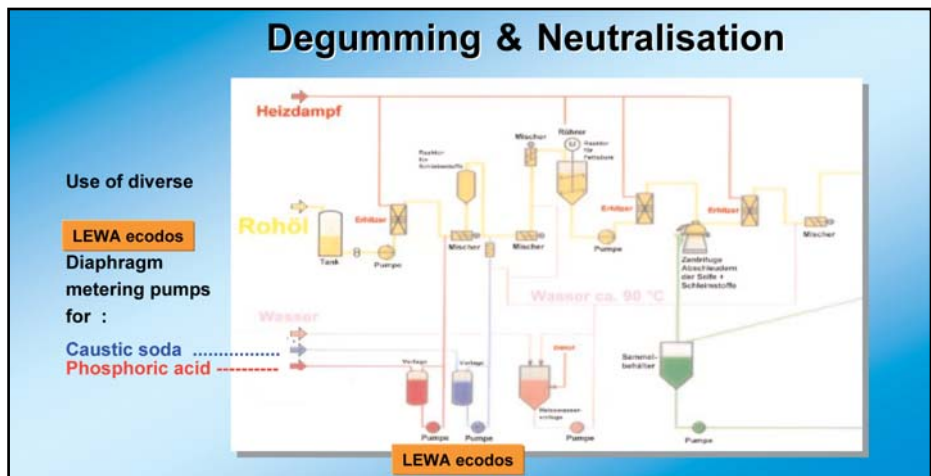


Fig. 2: Degumming and neutralisation with LEWA ecodos

Most metering pumps used in food oil processing operate below 1500 l/h and 5 barG. The LEWA ecodos diaphragm pump is the optimum choice for this application.

Advantages of LEWA ecodos in food oil processing:

- Hermetic diaphragm design
- Safe operation ("install and forget")
- Excellent cost to benefit ratio
- Sturdy drive unit is ideal for continuous operation
- Patented 4-layer, virgin sandwich diaphragm
- Emergency operation is possible in the unlikely event of diaphragm rupture failure
- Wetted materials are approved by the food industry
- Worldwide after sales service and support

LEWA diaphragm metering pumps are an integral part of food oil refining

Due to its outstanding features made popular in the food oil industry, LEWA ecodos continues to replace failing metering pumps in the field. Package suppliers and end users (e.g. oil mills) worldwide recognize the advantage of diaphragm pump technology. For more than 50 years LEWA has developed broad experience, references and extensive know-how. Technically, LEWA remains the world market leader and a reliable partner for the production of high quality food ingredients.



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