

Either an electric or a hydraulic drive can be specified for the FUNDA filter. The hydraulic drive is directly coupled to the filter shaft while the electric drive employs a reducer. The electric drive option uses a programmable VFD speed controller.

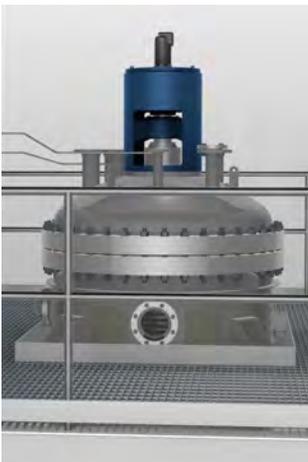
Vertical Electric Driven Drive

The electric drive motor is mounted vertically above the filter shaft. It connects to the filter shaft through a reduction gearbox. The gear box is mounted to the top of the motor support which in turn is mounted to the top of the filter vessel head. The electric motor is driven by a Variable Frequency Drive (VFD). The VFD gives precise speed control of the nest rotation and offers programmable ramping speed control. Rotational speed control is an important feature. High speed rotation is needed for cake discharge while low speeds aid the effectiveness of boil-outs and filter plate washing. Electric drive motors can be ordered in explosion proof configurations.



40 HP Electric Motor

Hydraulic Driven Drives



Hydraulic Motor

The hydraulic filter nest drive consists of a hydraulic motor mounted to the top of the motor support, which in turn is mounted to the top of the filter vessel head. A coupling connects the hydraulic motor to the filter shaft. The hydraulic motor is powered by a Hydraulic Power Unit (HPU). The HPU provides accurate speed control. The HPU is often mounted near the FUNDA filter, but can be located remotely if needed. Electric drive motor of the HPU can be ordered in explosion proof configurations. The hydraulic drive option becomes very economical for large FUNDA filters when compared to the cost, weight and size of an equivalent electric motor. Handling of the hydraulic motor is easier too when servicing the filter nest, because there is no electrical wiring to disconnect. The hydraulic motor becomes even more economical when multiple FUNDA filters are grouped together as one HPU is capable of driving several hydraulic motors.

Side Mounted Electric Driven Drives

Steri offers offset drives for height clearance or other issues. The standard offset drive consists of an electric motor mounted to specialized support frame and connected to the filter shaft through a right angle gear box. This direct connection eliminates the need for V-belts and complies with EU standards barring v-belt use.



Side Mounted Electric Drive