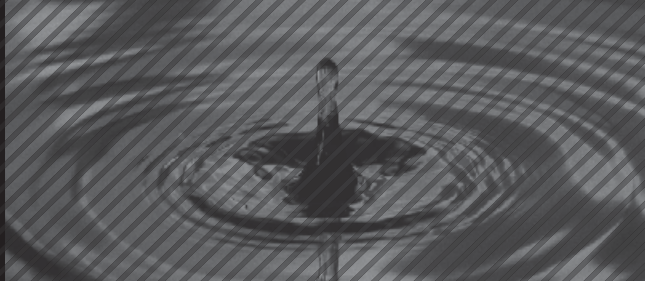




**FILTER  
TECHNOLOGY**

cleaner fluids mean better business



Filtration and Contamination Control Specialists

## FM7 Series Electrical Drive Filtration Units



### FM71033 Wheel Motor Filtration Unit

#### General Description

Ever increasing payload capacity in off-highway haul trucks has led to planetary gear reduction drive systems employing larger volumes of high viscosity oils. With the oil volume held in the gear compartment, as opposed to a separate tank or sump on earlier or smaller trucks, it is very difficult to circulate the oil at an effective flow rate.

The highly congested gear case restricts effective circulation of the oil and the large sections of gearing act as considerable "heat sinks" thereby all but cooling the oil faster than it can be heated during the filtering process.

As a result Filter Technology has found that it is critical to evacuate the oil into a holding tank where the oil can be heated and filtered at effective flow rates. This ensures that all of the oil passes through the elements rather than missing "dead zones" of oil at the back of the compartment.

#### System Process

3 step process initiated via operation of touch screen control panel as follows:-

**Evacuation Mode** – Compartment oils are evacuated into respective holding tanks in preparation for filtration

**Recirculate Oil Mode** – Filtration process is fully automated to filter first one tank and then the other tank.

**Return Mode** – Oils are then returned to respective compartments.

#### Shipping Dimensions

	Metric	US
Height	1600 mm	63"
Length	2550 mm	101"
Width	1650 mm	65"
Weight	820 kg	1808 lb
Maximum Pressure	5 bar	75 psi
Rec. Operating Pressure	3 bar	45 psi
Rec. Maximum Flow (@ 60°C on ISO 680 oil)	20 L/min	5.3 gal/min



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