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# New hydraulic motor aids fuel efficiency

Parker Hannifin, has launched the M5A range of hydraulic motors, developed to improve the efficiency and performance of fan operated cooling systems.

The M5A is ideal for use with fan units of up to 20kW, at maximum operating pressures of 300 bar (4,500 PSI) and speeds to 4,000 RPM. The motors are designed to offer high levels of engine efficiency by enabling the speed of cooling fans to be matched precisely to the operating load of each vehicle. This can significantly reduce energy consumption and emissions, while helping to improve fuel economy and minimise the wear on moving parts, to extend service intervals. Each motor is manufactured from a tough, cast iron housing and

incorporates heavy-duty components throughout - including specially developed bearings - resulting in a robust system capable of handling sustained heavy loads. For example, the bearing and motor shaft assembly is capable of withstanding high gyroscopic forces, making the system ideal for use in forestry and construction equipment. They also meet rigorous noise and emission standards required in the Commercial Vehicle sector, employing radial vane technology allowing them to operate at particularly low noise

levels, even under full load.

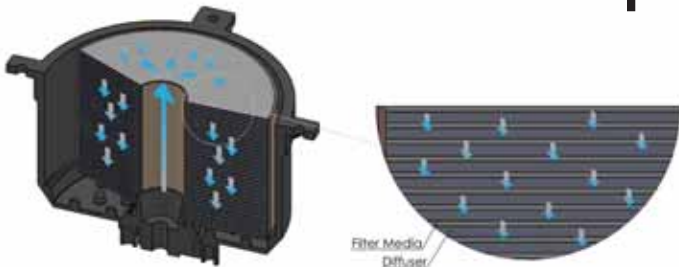
In addition, the M5A motors feature integrated proportional pressure relief valves and sensor mechanisms. These provide extended functionality, for example anti-cavitation and dedicated speed control, without the need for auxiliary equipment. For applications where cooling radiators are prone to clogging with dirt or debris, a built-in reverse valve option is also available, which

enables radiators to be cleaned simply by reversing the air flow from the pump and fan assembly. The new pumps are supplied in two industry standards sizes: SAE A and SAE B.



The new Parker Hannifin M5A hydraulic motor

## New filter concept



The VDM (Variable Depth Media) is a new, patented filter designed by Filtertechnik, which claims to achieve exceptional cleanliness and water removal results at a very competitive price. The VDM filter works on the principle of capturing particulate throughout the entire depth of a filter element. Large particles are captured at the top of the element, medium in the middle and fine particles at the bottom.

Traditional filter elements have the same filter media throughout the element structure. The VDM filter can be tailored to suit a given application by adjusting the media layers to suit the particulate clean-up job required. Water removal can also be built into the element by utilising a water removal tier within the element, which has excellent water retention properties.

Cleanliness levels of ISO 12/10/8, Nas 2, are easily achievable from this element as well as removing both free water and dissolved water down to 50ppm. In-house and field tests have typically shown water counts being reduced from 1000ppm to 50ppm. The layered design of the VDM means that other materials can be introduced to the element to perform different functions as required, such as Free Fatty Acid or TAN reduction. The filter can be used in a variety of applications such as mineral oils, fuels, vegetable oil based applications such as used cooking oil and biodiesel. The elements can also be used at temperatures up to 180 degrees C without loss of performance.

Two patents are utilised within the VDM design, one is the variable depth concept and the other is the use of diffusers within the element that improve particulate capture due to a non-Newtonian interrupted flow principle. The filters are currently being manufactured in three sizes but they can be built to suit applications and flow requirements. Filtertechnik also produces low cost housings to complete the product line up. To mark the launch the company is giving away a filter body and VDM filter for testing.

## Eco vinyl decals

Atlantic Coast Studios is launching a new biodegradable range of stickers/decals. The idea is to provide a more 'environmentally friendly' product which will help companies with their contract tendering, which increasingly demands improvements in this area.

The new stickers are designed to come close to matching regular plastic decals and last a minimum of two years in harsh outdoor conditions. They are fully waterproof and weather resistant.

The adhesive used on the Eco Vinyl provides 12N/25mm of 'stickiness' compared to 16N/25mm on regular vinyl sticker and as such are just slightly less sticky. Temperature resistance is - 40 to +70 degrees centigrade - again similar to regular stickers. On-going tests show that the Eco decals resist any fading or UV degradation after two years of continuous outdoor use.



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