

# MERA iPACK™ FILTERING UNITS FOR HYDRAULIC AND GEAR SYSTEMS



## Fully instrumented filter carts for maintenance of hydraulic and gear oils to improve hydraulic system efficiency, improve application reliability, reduce downtime and ultimately reduce costs

In general it has been estimated that in the region of 85%-95% of hydraulic system failures can be traced to fluid borne contaminants.

Until recently, it has been relatively difficult to monitor the day to day condition of hydraulic oil. As a result, tests have either been sporadic, often involving a simple visual check of oil colour and viscosity, or require remote laboratory analysis, which provides an accurate indication of quality but can take hours or sometimes days to complete.

However, detecting the presence of contaminants is only part of the story. It is more important to prevent contaminants entering the systems in the first instance through the correct specification of hoses and fittings, regular maintenance and through the installation of appropriate filtration units to ensure that if particulates are present they are removed reliably at source.

Hydrasun offers the MERA iPACK™ series of fully instrumented filtering units for hydraulic and gear oils which can be fitted for various hydraulic applications both onshore and offshore.

### iPACK™ BASIC

Fully instrumented filter cart for maintenance of hydraulic and gear oils. iPACK™ BASIC gives the user an easy to use tool for filtration and transfer/filling tasks.

The unit removes both particle contamination and water. Furthermore the rigid and durable construction requires minimal operator time and maintenance due to its high degree of instrumentation.

#### Benefits

- Easy tie-in to all systems
- Intuitive touch operator panel
- Alarm functions/history
- For use on different systems, loop flush programme
- Longlife components
- Single phase 16A supply
- High flow range

### iPACK™ PRO

The iPACK™ PRO has the same features and benefits as the basic version with the addition of sensor hardware to autonomously maintain a preset level of cleanliness.

iPACK™ PRO makes sure the cleanliness specification is within specified limits and is ideal as a commissioning tool for new and refurbished oil filled systems.

#### Benefits

- Autonomous operation
- Easy tie-in to all systems
- Intuitive touch operator panel
- Alarm functions/history
- For use on different systems, loop flush programme
- Longlife components
- Single phase 16A supply
- High flow range

# MERA iPACK™

## FILTERING UNITS FOR HYDRAULIC AND GEAR SYSTEMS



Technical Data	Specification	Solution Benefits
<ul style="list-style-type: none"> <li>■ Supply</li> <li>■ Dimensions</li> <li>■ Weight</li> <li>■ Pressure rating</li> <li>■ Model/fluid handling capacity</li> </ul>	<ul style="list-style-type: none"> <li>■ 110-220v/50-60Hz/16 amps</li> <li>■ L x W x H: 900 x 400 x 500 (mm)</li> <li>■ Weight: 40 - 55kg (300 model - 500 model)</li> <li>■ 11 bar</li> <li>■ Item: 300 - 15l/min</li> <li>■ Item: 500 - 50l/min</li> </ul>	Rigid structure, small volume, easy handling and integration
Mechanical tie-in (IO's)	¾" all thread standards adaptable or quick connectors	Applicable to all HPU's/Powerpacks
User interface	Local and central control via high resolution touch based HMI	Intuitive touch HMI to monitor unit condition and operation of iPACK
HPU / main system	Programmable presets available on a condition based maintenance interval (PRO) or a time based maintenance interval (BASIC)	Operator time drastically reduced
iPACK monitoring	All internal systems with status indication and diagnostic feature	As a subsystem iPACK requires minimal operator resource and maintenance
Fluid maintenance function, < NAS6 or eqv in ISO	Particle filtration range: 3-12 µm@ β1000 (all composite materials) Water absorbing: yes Serial configuration with full dP monitoring Select item 300 for reservoir volumes up to 3000 litres Select item 500 for reservoir volumes from 3000 litres	No risk of filter media ingress to system due to mechanical and electrical dP fail-safe feature. Pump has preset over bypass to act as crossover even when system is pressurised. Also electronic pressure monitoring. Drive control benefits are linked to a high degree of flow control, thus solving viscosity issues. Outstanding flow capacity.
Order Selector	Item nr: 1000945 - Descr: iPack Basic 300 Item nr: 1000946 - Descr: iPack Basic 500 Item nr: 1000947 - Descr: iPack Pro 300 Item nr: 1000948 - Descr: iPack Pro 500	

For further information on  
MERA IMS™ contact:

Hydrasun  
Gateway Business Park  
Moss Road,  
Aberdeen  
AB12 3GQ

Tel: +44 (0) 1224 618618  
E-mail: [info@hydrasun.com](mailto:info@hydrasun.com)  
[www.hydrasun.com](http://www.hydrasun.com)

