

CURTIS ASSEMBLE & TEST LIMITED

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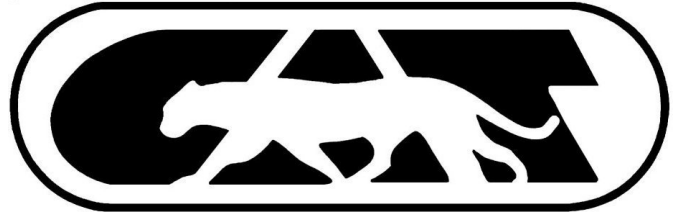
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CURTIS POWER PACKS

Description:

Our expertise in the generation of high pressure for our own test machines has led to the development of a range of hydraulic power packs. These have generally been used as oil supply and conditioning units for external equipment.

General Specifications:

Flow Range:	10-100 L/min
Pressure Range:	1 – 300 bar
Temperature Range:	Ambient to 160°C
Filtration Level:	Normally between 3 and 25 microns
Power:	Up to 30Kw
Type:	Mobile and fixed installation

Examples:

Mobile Power Pack

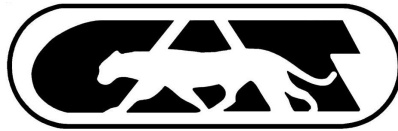
This power pack has two circuits, one to supply test fluid and the other to supply Lubrication oil. Both circuits may be run simultaneously allowing a test piece to be supplied with test fluid and lubrication from a single unit. Both circuits are temperature controlled and are able to servo to either flow or pressure. The test fluid supply circuit will provide up to 50 l/min through a 3 micron filter and the lubrication circuit will provide up to 60 l/min through a 10 micron filter. The entire unit is mounted upon castors that enable it to be moved from one location to another relatively easily.



Fixed Installation Power Pack

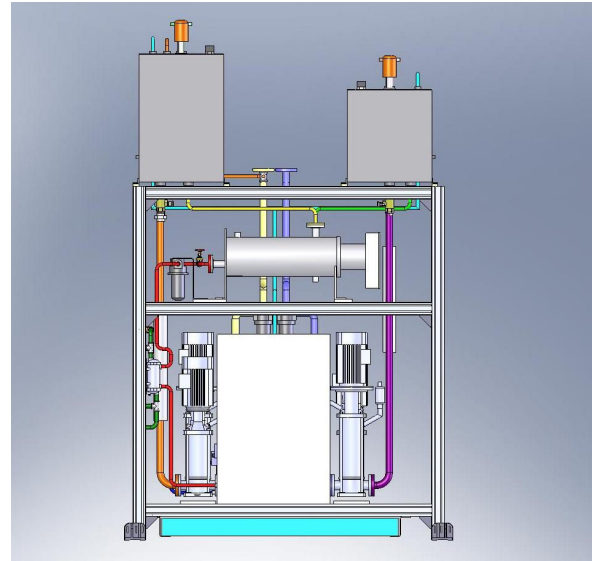
This power pack is intended for a fixed installation and has been designed and built to operate with a specific piece of external equipment. It has two supply circuits, one for test fluid and the other for lubrication. The test circuit can provide 42 l/min at up to 180 bar through a 10 micron filter and the lubrication circuit can provide 11.6 l/min at up to 275 bar through a 30 micron filter. In addition to the oil supply circuits, the unit incorporates a motor that can be mechanically coupled to the customer's equipment to drive it.





Special Purpose Conditioning Unit

We also produce special purpose conditioning units built specifically to meet very exacting requirements. These types of units have ranged in height from 2.2m to 4.5m and have been constructed from RHS box section frame or aluminium extruded section. The units consist of dual circuits supplying test fluid at different conditions for different purposes. Fluid temperatures may be individually set for either circuit from 15°C up to 160°C. Flow rates of up to 100 l/min can be supplied at up to 10bar. The supply lines are fitted with 3 micron filters to ensure clean oil is supplied.



Multi Purpose Power Pack

The multipurpose power pack has been developed to meet the need for a self contained power pack and clamp unit. It consists of 4 supply lines, 2 of which are capable of supplying fluid at 7 l/min at 300 bar and 2 which can supply at 60 l/min at 100 bar. The 4 oil supply and 4 return lines are each fitted with 25 micron and 6 micron filters. The unit contains 2 completely independent clamp circuits which, with the correct valve islands, can be used to achieve various clamping requirements. The oil reservoir is fitted with both warning and abort level switches to indicate when topping up is required and prevent running the pumps dry. The fluid temperature is monitored as standard and can be controlled as an option. Each supply line is fitted with electronic flow meters to enable precise monitoring of the flow rates. To prevent fluid spillage in the event of an accident, the power pack has an integral bund capable of containing all the fluid in the tank.



Power pack connected to a flushing station