

### **Product Information**

170 l/min. hydraulic power-pack



170-liter hydraulic power-pack without acoustic hood

#### Range of application

CTA: 52054

Series HP hydraulic power-packs were specially developed to cope with the demanding requirements of servo-hydraulic testing machines and testing systems. The power packs feature demand-dependent flow-rate control; delivery is at a constant pressure of 280 or 210 bar.

#### **Description of operation**

ZwickRoell Series HP power packs deliver high operational reliability combined with long service life, with all components mounted on top of the oil tank for easy access.

The self-priming radial-piston pump is driven by an asynchronous motor. The nine pistons are in hydrostatically balanced contact with the stroke ring. Flow rate is regulated by the stroke-ring eccentricity, which is adjusted via two control pistons located opposite each other. The pressurized oil is routed via a high-pressure filter and is then available to the appliance at output 'P'. A factory-set pressure relief valve prevents excessive increases in pressure.

The return oil is routed to the rear part of the tank via a low-pressure filter. A dedicated cooling circuit pump supplies oil to the oil-water heat-exchanger and returns it to the tank. A temperature-controlled valve switches the coolant water flow on and off. To prevent cavitation

a degassing filter is located in the tank, while an oil mist filter cleans air vented from the tank.

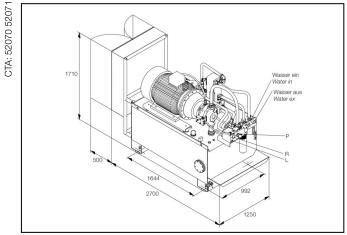
#### **Advantages and features**

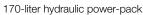
- Variable-capacity pump automatically adjusts, consuming only sufficient electrical power to maintain the required flow at any given moment.
- 9piston pump delivers an oil flow with minimal pressure fluctuations.
- Power packs have multiple vibration isolation.
- All connections, including pressure filter, feature operator-friendly front mounting.
- Integrated oil collection pan catches minor drips and leakages during hose and filter changes.
- Power packs are multiple-operation-ready, allowing an additional power pack to be connected if required.
- Modern power-pack control with SPS for convenient operation, including monitoring and status display.
- Wide range of monitoring functions available, including oil pressure, oil level, oil temperature, filter.
- Power pack can be operated either directly from the electrical cabinet or by remote control from the test stand (optional).
- The power packs are supplied ready for fitting of an acoustic hood. This can also be retrofitted.
- Vibration stabilizer can be retrofitted in order to damp disruptive vibrations in pipework installations where necessary.

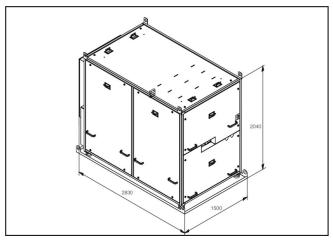


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#### **Technical data**

System pressure	210	280	bar
Item No.	068882	029981	
Nominal flow-rate	170	170	l/min
Oil temperature range	4060	4060	°C
High-pressure filter to ISO 16889, absolute	3	3	μm
Oil reservoir max. volume	1240	1240	1
Noise level (distance approx. 1 meter)	82	82	dB(A)
Motor output at nominal flow rate	73	95.5	kW
Electrical supply <sup>1)</sup>	400, 3PH/N/PE, 50 Hz	400, 3PH/N/PE, 50 Hz	V
Wire cross-section (up to 35m cable length)	4 x 70	4 x 95	mm²
Fuse protection provision by customer	160	200	Α
Protection class	IP 55	IP 55	
Weight (including oil)	3150	3150	kg
Hydraulic connections for:			
P (high pressure)	G 1 1/4"	G 1 1/4"	BSP P
R (return flow)	G 1 1/2"	G 1 1/2"	BSP P
L (leak oil)	G 1"	G 1"	BSP P
Radiated heat loss	8.4	11	kW
Coolant water req. at 25°C	90	120	l/min
Coolant water supply connection (inlet/outlet)	G 1 1/2" / G 1 1/2"	G 1 1/2" / G 1 1/2"	
Oil types	HLP-46 or HVLP-46	HLP-46 or HVLP-46; suggest Mobil DTE 25	

<sup>1)</sup> Alternative supply voltages and frequencies (60 Hz) available on request