

Operating Manual

HPP09 Hydraulic Powerpack

From serial
number 1188-1278

Revised
December 2003



Prior to Operation

We thank you for choosing a HYCON powerpack.

Please note that the powerpack is delivered without hydraulic oil, and therefore it must be filled up with hydraulic oil prior to operation.

To ensure smooth operation and long-lasting performance of your new powerpack, we recommend you to study this operating manual carefully and pay special attention to the

Safety and Service Precautions

We hope you will be satisfied with your new HYCON powerpack.

Best regards
HYCON A/S



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Safety Precautions

1. Always use protective earplugs. The powerpack complies with the EU noise limits of max. 104 dB, but by daily long-lasting operation there is a risk of hearing defects.
2. Always connect hoses before starting.
3. Never add fuel and oil when the engine is running.
4. In case of non-operation or performance of service, always turn off the engine.
5. Never start the engine without side covers.
6. Operation of the powerpack without tool connected and with lever at "ON" may cause overheating of the system and damage to the powerpack.
7. When lifting the powerpack from a vehicle, we recommend the use of a crane.
8. The pressure relief valve is set at 150 bar from our plant. Never set it higher.
9. Always use filters with by-pass. The use of filters without by-pass may involve a danger of explosion.

Technical Data

Hydraulics

The HYCON HPP09 open centre hydraulic powerpack is designed in accordance with the EHTMA category C, which prescribes a minimum performance of 20 l.p.m. at 138 bar. The HYCON powerpack is fully compatible with and sufficient for the common European tools.

The powerpack is mounted with a pressure relief valve to avoid a too high pressure. Furthermore, the very efficient air cooling protects the powerpack against super-heating.

Oil flow	20 l.p.m at 3300 r.p.m.
Working pressure nominal	120 bar
Pressure relief valve	Set at 150 bar
Pump	Gear pump
Oil temperature	Max. 70° C
Hydraulic oil tank capacity	Min. 4½ litres/max. 7 litres
Hydraulic system compl.	Max. 8 litres
Filter system (filter cartridge)	25 Micron with by-pass
Engine	Honda GX270QXB7 9 HP 4-stroke petrol with oil alert system Petrol - normal or unleaded Engine oil 1.1 litres
Measured sound power level L_{WA}	101 dB
Sound pressure level 1 m L_{PA}	90 dB
Dimensions (LxWxH)	680x575x593 mm
Weight, without hydraulic oil	68 kg

Starting Instructions

Please observe the starting instructions on the front of the powerpack.

- Start:**
- Check engine oil level
 - Check hydraulic oil level at sight glass
 - Connect hoses and tool
 - Switch fuel tap to "ON"
 - Activate choke
 - Turn ignition switch to "1"
 - Pull recoil starter
 - Move the lever to "ON"
- Stop:**
- Move the lever to "OFF"
 - Turn off the ignition switch
 - Turn the fuel tap to "OFF"

Service, Maintenance and Hydraulic Settings

Service/Maintenance	Daily	Weekly	Yearly
Engine oil	Check		1 x replacement
Hydraulic oil	Check		1 x replacement
Hydraulic oil filter *)			1 x replacement
Check hoses		(tighten up if needed)	
Air filter			1 x replacement
Fuel filter			1 x replacement

*) Use only filters with by-pass

Hydraulic Settings

Check the working pressure by means of test equipment. The test equipment must comprise a pressure gauge, a flow meter and a valve for adjustment of the flow.

The pressure relief valve is placed on the right side of the valve block.

1. Connect the test equipment, start the powerpack and move the lever to "ON". Then close the flow valve - the pressure gauge must show between 145 and 150 bar.

Adjust the pressure relief valve by loosening the lock nut and turning the adjustment screw in or out. "In" increases the pressure, and "out" decreases the pressure.

Retighten the lock nut after adjustment.

2. When the pressure relief valve has been adjusted correctly, the working pressure must be set at 100 bar by means of the flow valve. At 100 bar, the oil flow should be 20 l. p.m.

If the oil flow is not correct, loosen the POD cylinder in the bracket and push it to the left (higher flow) or to the right (lower flow).

Secure the POD cylinder in the bracket again after adjustment.

If correct pressure/oil flow cannot be achieved by following the above instructions, the powerpack must be re-adjusted. If the pressure/oil flow is then still incorrect, the pump is defect and must be replaced.

Oil Types

The HYCON powerpack uses standard hydraulic oil, i.e. all types of mineral oil and biodegradable oil, which comply with the following values:

Recommended viscosity	20-40 cSt
Permitted viscosity	15-1000 cSt
Viscosity index	Min. 100
Temperature area	-20° to +70° C



EC-Declaration of Conformity

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From Serial No.

We hereby declare that the **HPP09 hydraulic powerpack**
(with 6.6 kW petrol engine)

1188-1278

is manufactured in conformity with the EC Directives 98/37/EC and 2000/14/EC.

Notified Body 404:

SMP Svensk Maskinprövning AB
Fyrisborgsgatan 3
S-754 50 Uppsala
Sweden

Measured sound power level: 101 dB
Guaranteed sound power level: 104 dB

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A handwritten signature in blue ink, appearing to read "Henrik Steen".

Henrik Steen
General Manager

15.04.2003

Warranty Conditions

We grant 12 months warranty from the first date of operation – however, not more than 18 months from the date of delivery.

The warranty applies to faults that can be related to construction and production errors.

Faults caused by incorrect operation, incorrect handling, lack of maintenance or the like will not be accepted as warranty.

The warranty covers the parts necessary for repair and the suggested average time needed for repair.

For further warranty details, please contact your local dealer.