

# Hydrostatic Pressure Kit

Quantum Design offers an easy to use hydrostatic pressure kit for preparation of feed material suitable for use in the Quantum Design IR Image Furnace.

This pressure kit creates “feed rods” with diameters from 4 - 8 mm, and lengths up to 150 mm.



## Specifications

Applied Pressure	30 MPa
Pressure to Sample	100 MPa
Stroke	50 mm
Pressure Vessel	Stainless Steel
Pressure Vessel Internal Diameter	20 mm
Pressure Vessel Depth	220 mm
Seal	O-ring

Press kit includes:

100 rubber tubes, 100 O-rings and 100 back up rings.

# Feed Rod Preparation Process



1. Cut suitable length of rubber tube and tie off one end.



2. Insert material into rubber tube, roll into a cylindrical shape, then tie off.



3. Fill pressure vessel with water and drop in the rubber tube.



4. Insert piston into the pressure vessel. Set into press unit and apply desired load.



Feed rod cut from rubber tube, ready for sintering.



Groove cut at end of feed rod for later wiring.