

# Thermal Pump Material List and Assembly Instruction

## Structural Parts

Name	Model	Process Suggestions
Body	Body Pump.stl	3D print
Lid	Lid Thermal Pump.dxf	Laser cut, 3mm thick Acrylic
Check Valve	McMaster 47245K114	
Sealing Ring	Mold Sealing Ring.stl	Cast, Smooth-On Ecoflex 00-30
Bolt	M2, L 15mm	
Nut	M2	
Bladder	Bladder.dxf	Heat Seal, Thermal Plastic
Copper Plate	Diameter 60mm, Thickness 1mm	

## Working Medium

Low boiling point liquid: Novec family, acetaldehyde, 1,2-Butadiene, etc. Must check the SDS and handle them accordingly

## Assemble Instruction

