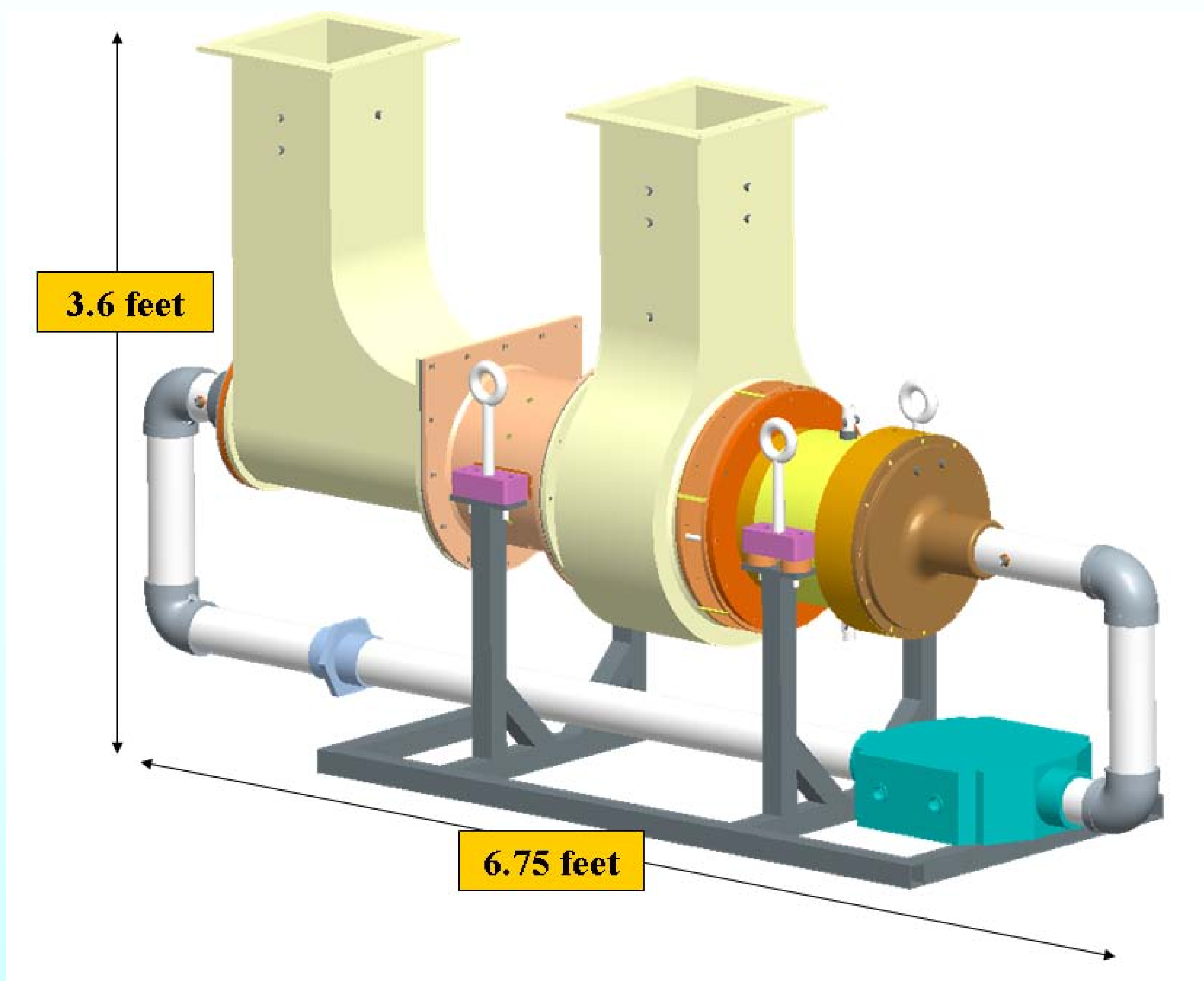
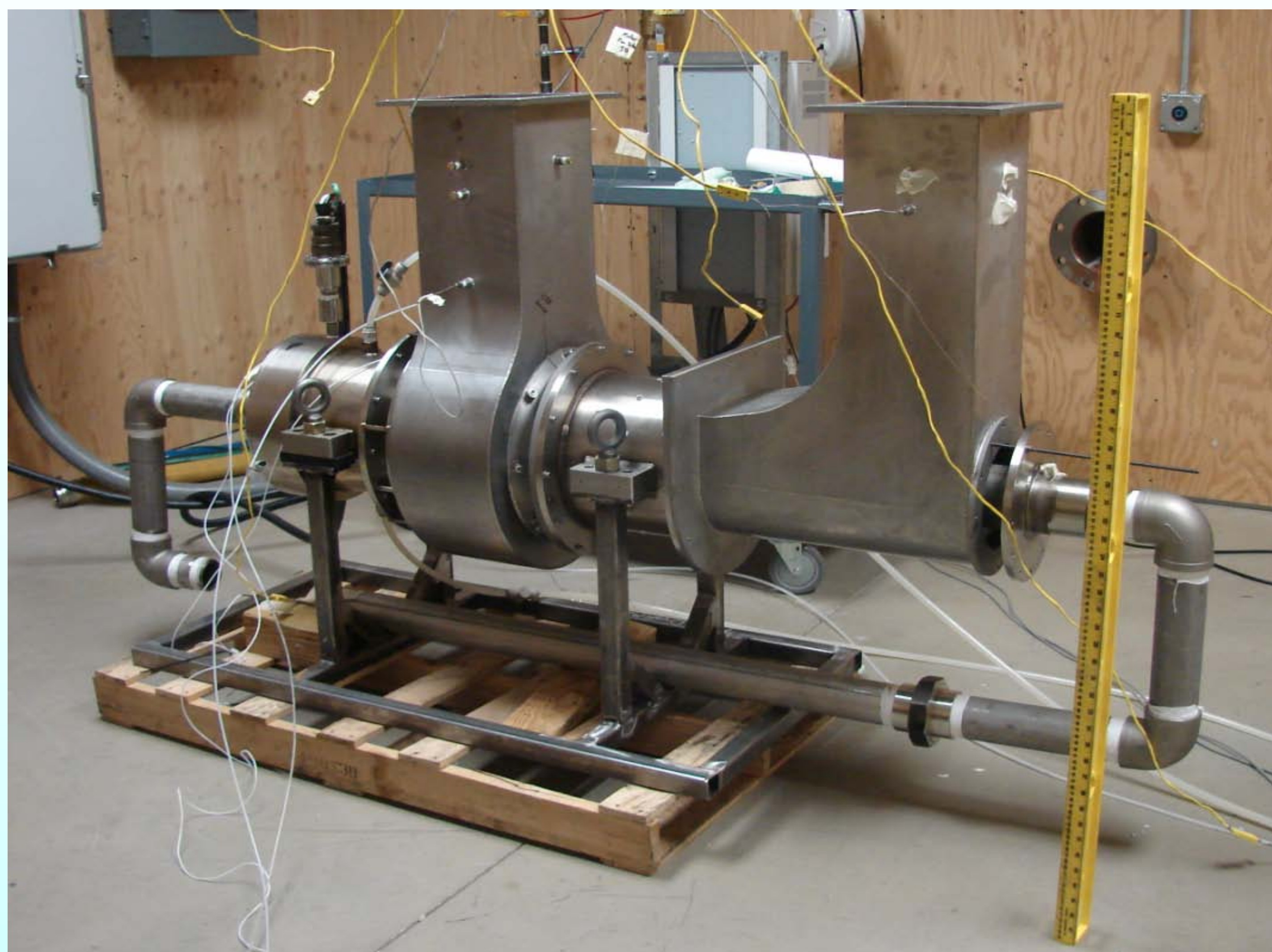


High Temperature Blowers for Coal Based Power Systems



Blower Model



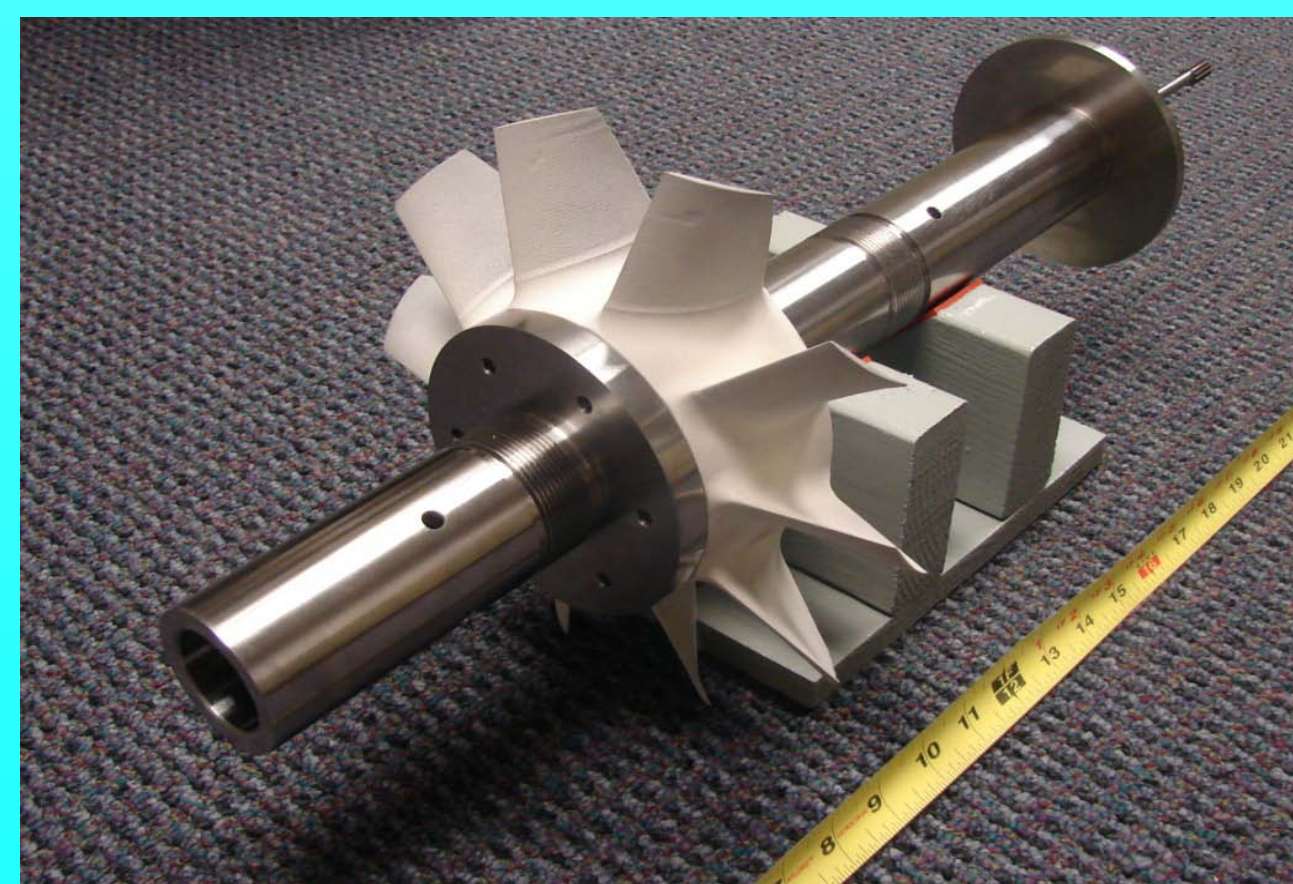
Tested Hardware

“Efficient, Oil-Free, High Temperature (up to 850 °C) Cathode/Anode Recycle Blower” for megawatt size SOFC systems.

- High temperature capable dual use Cathode/Anode recycle blower successfully tested at ambient conditions.
- Blower ready for high temperature system testing to enable SECA goal.

Blower Features:

- ✓ High Temperature Capable (up to 850 °C)
- ✓ Hermetically Sealed
- ✓ Dual Use (cathode/anode recycling)
- ✓ Energy Efficient
- ✓ Oil Free
- ✓ Maintenance Free
- ✓ Design Life (> 10 yrs)
- ✓ Low Noise (< 70 dBA)
- ✓ Scalable
- ✓ Low Cost



Rotating Assembly

Design Specification:

- | | |
|-----------------------|---------------|
| ✓ Process Gas | Anode Gas |
| ✓ Molecular Weight | 28.31 |
| ✓ Specific Heat Ratio | 1.22 |
| ✓ Inlet Pressure | 15.31 psia |
| ✓ Outlet Pressure | 15.77 psia |
| ✓ Pressure Rise | 12 " of Water |
| ✓ Inlet Temperature | 825 °C |
| ✓ Flow | 185 lbm/min |

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