



ROOTS Condenser Systems

Integrated High-Efficiency Vacuum Solutions
for Maximum Process Yield

Roots Condenser System

At Toshniwal Vacuum, our systems are designed to meet the evolving demands of modern industry, delivering precision, reliability, and energy efficiency across a wide spectrum of applications. From pharmaceuticals to plastics, food processing to leather chemicals, our vacuum technologies are deployed wherever performance and process integrity are non-negotiable.

Whether it's a centralized vacuum system or a standalone pump, each solution is optimized based on specific operating parameters, vacuum level, gas load, and process conditions, to ensure seamless integration and measurable results.

Technical Features:

- **Wide Pumping Capacity Range:** From 250 m³/hr to 35,000 m³/hr to suit varied industrial scales
- **Deep Vacuum Capability:** Achieves ultimate pressure as low as 1×10⁻³ mbar (based on pump selection)
- **Versatile Pump Options:** Includes OLVP, Hybrid LRVP, Piston Vacuum Pumps, and Oil-Immersed models
- **High-Quality ROOTS Boosters:** Ensures stable, reliable system performance under demanding conditions
- **Efficient Condenser Design:** Extended residence time enables optimized vapor condensation and recovery
- **Advanced Solvent Recovery System:** Unique drain architecture maximizes solvent reclamation efficiency
- **Extended System Longevity:** Optimized piping and condenser layout enhances pump lifespan
- **Precision Component Engineering:** Internal piping, flanges, and seals built for safety and peak performance

Core Applications

- Vacuum Transfer
- Distillation & Drying
- Coating & Impregnation
- Solvent Recovery
- Dehydration & Filtration