

Spirax Sarco

Research activities, energy recovery and heat exchangers

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First for Steam Solutions



Insertion Steam Dryness Meter

Passive ultrasonic measurement of condensate in steam.

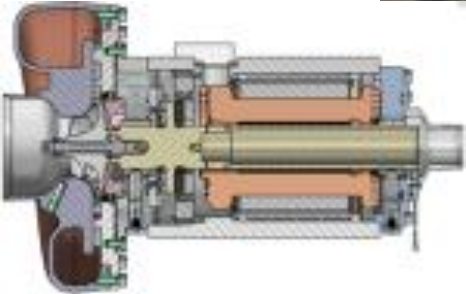
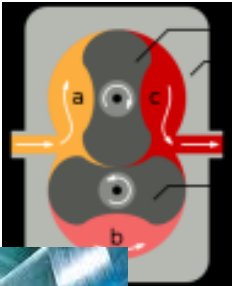
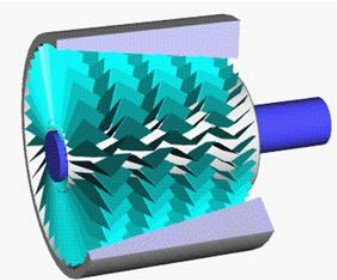
Differentiating our metering range to measure the true energy content of steam.

Steam dryness can vary between 90% and 100% typically with comparative variation in energy content.



Background	Target Benefits
Based on proven piezoelectric materials	In-line energy metering unique to Spirax, adding significant value to the range
Robust technology allows for a range of configurations	Integration with our existing flow meters allowing one meter to measure both mass flow and dryness for true energy metering
Driven by our customers' need for energy monitoring and carbon reduction	Continuous dryness monitoring with no need to sample
	More reliable than manual methods of dryness testing

Steam Compressor



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Market Requirements

Small-scale unit – 1000 to 3000 Kg/hr steam nominal flow rate

Between 50-300kW

Suitable for steam

High isentropic efficiency

Low cost

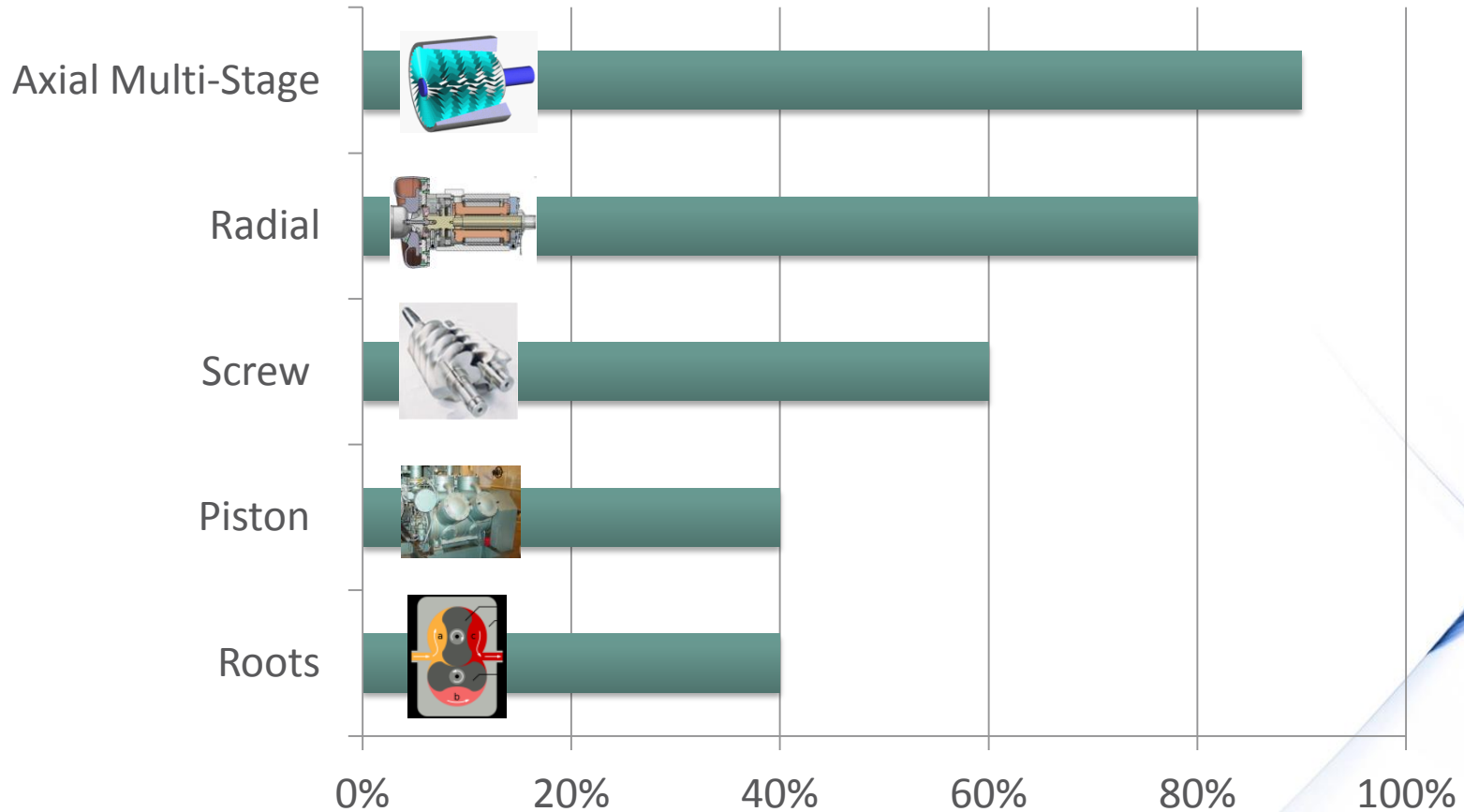
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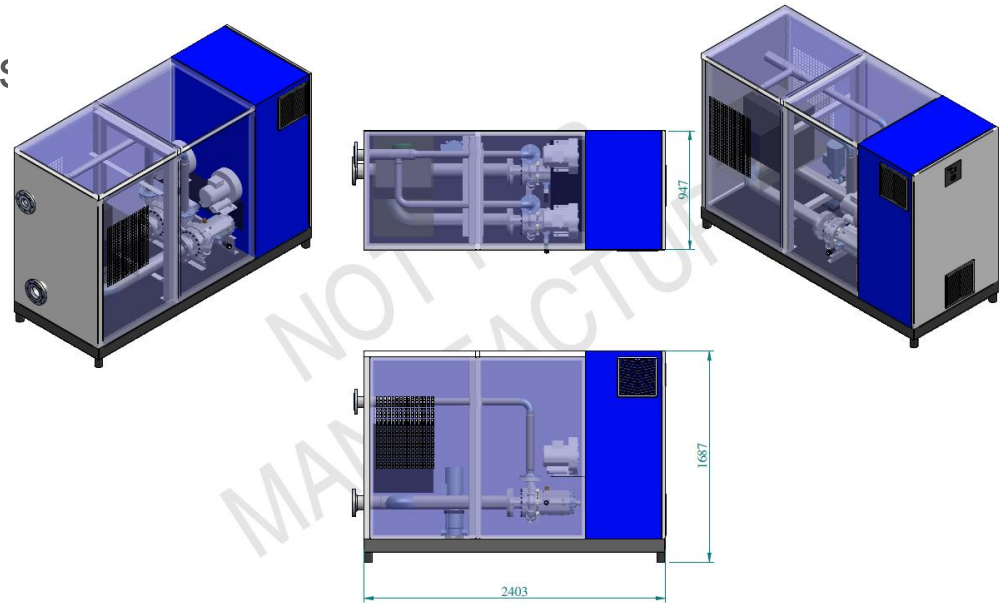
Max. Efficiency By Type

Isentropic Efficiency



Radial Compressor/Expander

- Offers lowest repeat cost
- High efficiency (up to 80%).
- Proven air bearings NO OIL
- Seal problem simplified
- Compact and lightweight
- Configurable in 50 kW Stages



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Compressor Applications

Process Specific applications include:-

Flash Steam Recovery

Process exhaust heat recovery to steam

Concentration processes (use of evaporators)

Super Heated Steam Drying

MVR