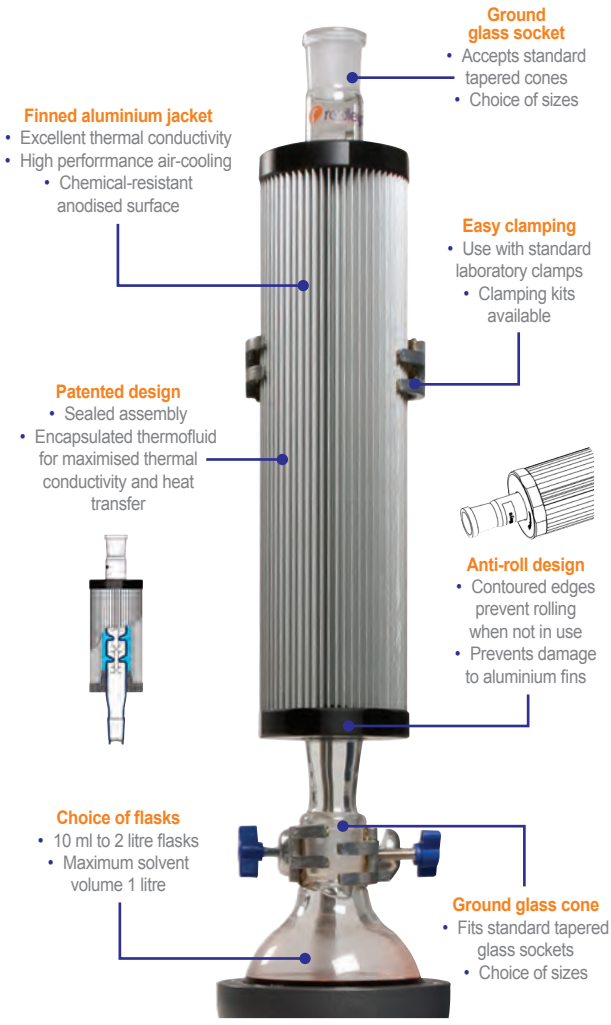
Findenser™ - *prevents flooding and saves water*

Replaces water-cooled condensers in over 95% of common chemistry applications

How does Findenser work?

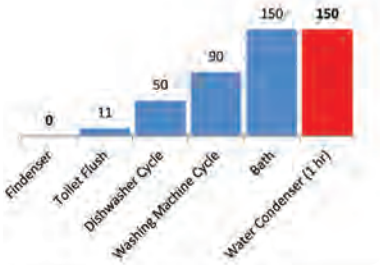
- Findenser comprises an internal glass condenser and an external, finned aluminium jacket, between which a small amount of water is permanently sealed.
- The glass condenser design has a greater internal surface area than traditional air condensers, increasing heat transfer capacity.
- The finned jacket fits around the glass condenser, further increasing the external surface area.
- The result is a 'SUPER air condenser'.



What are the benefits?

- No risk of flooding from running water
- Eliminate the cost of water purchase and disposal
- For solvent volumes from 5 ml up to 1 litre
- Helps meet sustainable water reduction targets

Average water consumption of common household appliances compared to a Findenser and water condenser



Findenser requires no running water to operate. Water is a precious resource. It makes little economic or environmental sense to waste thousands of litres just to cool a single condenser.

Performance testing

A range of solvents, in identical flasks and set-ups, were tested with a Findenser, water condenser and air condenser to record solvent loss by weight.

Findenser compared to an air condenser

For synthesis with low boiling point solvents, Findenser showed a significant improvement in solvent retention. With acetone or DCM the reaction boiled dry when using an air condenser, yet Findenser retained 95% of the solvent under the same conditions.

For synthesis with medium boiling point solvents, Findenser delivered improved solvent retention particularly with larger volumes and high temperatures.

Choice of B14, B19, B24 and B29 joint sizes


B14

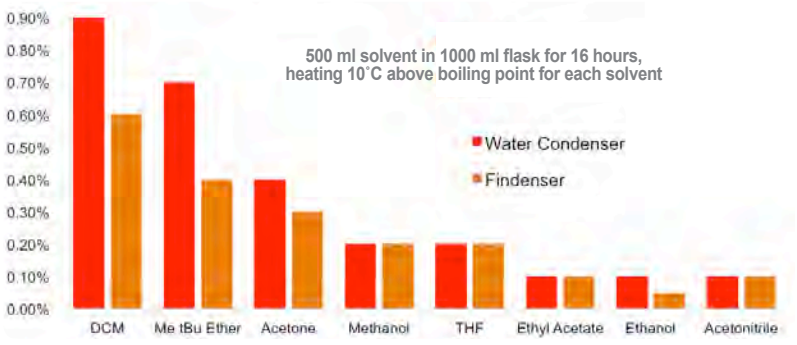

B19


B24


B29

Findenser compared with a water condenser

Under identical conditions, a standard Findenser retained solvent to the same level as a water condenser (with the exception of diethyl ether).



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