

The CondensSyn® & CondensSyn MINI Waterless Reflux Condensers

Simple, safe and no risk of flooding

Registered
Community
Design



Benefits:

- Robust
- Easy to clean
- High performance
- Simple and safe to use
- Environmentally friendly
- Short pay-back time
- No risk of flooding
- Available in the 3 lengths to suit all R&D scales, all with standard socket sizes

Save money, save water, save the planet!

The smart solution for everyone

The average rate of water used in a condenser is 2 litres per minute. The water costs used below are at £1.50 per cubic metre supply and £1.60 per cubic metre waste which is equivalent to 0.31p per litre.

This commercial rate cost is from a water supplier here in the UK, Anglian Water (Wave) in March 2022.

See table (below) for savings.

	5 hours per day	24 hours per day
Water used per day	600 litres	2880 litres
Cost per day	£1.86	£8.93
Cost per month (working days)	£37.20	£178.60
Cost per year (working days)	£446.40	£2,143.20

NEW adapter available to allow the CondensSyn to be used for distillation

See details overleaf



Ask for a demonstration online/in your laboratory today!

CondensSyn & CondensSyn MINI

Independent tests were performed by a leading UK University to evaluate the performance for safe use in their research and teaching laboratories. Evaluations were based upon a basic 350 mm effective length CondensSyn and a 250 mL round bottom flask with 150 mL of solvent.



Solvent	DCM	Acetone	THF	Ethanol	Acetonitrile	Water	Toluene
bp [°C]	40	56	66	78	82	100	110
oil bath [°C]	50	71	78	100	100	120	125
difference [°C]	10	15	12	22	18	20	15
time [min]	240	360	300	300	300	240	300
%-loss (total)*	-0.8%	-1.3%	-1.4%	-0.5%	-0.9%	-1.6%	-0.9%
%-loss per hour	-0.2%	-0.2%	-0.3%	-0.1%	-0.2%	-0.4%	-0.2%

*It is recommended that to prevent further losses a temperature differential is kept below 10 °C, especially when using solvents below 60 °C boiling point.



“Since receiving the CondensSyn waterless condenser, we have substituted standard water condensers for the waterless counterpart in a number of reactions, including overnight refluxes and Soxhlet extractions. We have found the transition to CondensSyn seamless! In our tests, CondensSyn has been as efficient as traditional condensers, however, the waterless setup is safer, greener and easier to use without loss of performance. The lack of tubing also allows for a tidier and safer working area and the sleek shape of the condensers would allow for multiple condensers to be setup on the same hot plate, vastly enhancing productivity!”

Dr Panagiotis Manesiotis Research Team, Queen’s University Belfast



Popular Purchase Options

Key sizes shown below but other sizes are also available

200 mm recommended for use with flasks up to 100 mL in size†
 350 mm recommended for use with flasks up to 500 mL in size†
 450 mm recommended for use with flasks up to 1000 mL in size†

GB-C-200-B14 200 mm with B14 socket
GB-C-200-B19 200 mm with B19 socket
GB-C-200-B24 200 mm with B24 socket
GB-C-350-B14 350 mm with B14 socket
GB-C-350-B19 350 mm with B19 socket
GB-C-350-B24 350 mm with B24 socket
GB-C-350-B29 350 mm with B29 socket

GB-C-450-B14 450 mm with B14 socket
GB-C-450-B19 450 mm with B19 socket
GB-C-450-B24 450 mm with B24 socket
GB-C-450-B29 450 mm with B29 socket

GB-C-DIST-B24 Distillation adapter for use with B24 socket CondensSyn
GB-C-DIST-THERM Thermometer and adapter set with B24 socket

† Not more than half full.

