

## The Original 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 \$2.03 per cubic metre supply and \$2.16 per cubic metre waste which is equivalent to 0.42c per litre.

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

See table (below) for savings.

	5 hours per day	24 hours per day
<b>Water used per day</b>	600 litres	2880 litres
<b>Cost per day</b>	\$2.52	\$12.10
<b>Cost per month (working days)</b>	\$50.40	\$242.00
<b>Cost per year (working days)</b>	\$604.80	\$2,904.00

**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 .



“The CondensSyn condensers have been placed into service and have been successfully used for multiple courses (organic; organometallics) over the course of the last semester. We have used the condensers with success to reflux such solvent systems as THF, dichloromethane, toluene, and even diethyl ether. The ether reflux was handled through the used of supplemental cooling by simple opening the hood sash to allow cool from air to sweep across the condenser resulting in minimal losses over a 1 h time period. We plan to purchase additional condensers in the near future.”

David A. Hunt, Ph.D., Professor, Department of Chemistry, The College of New Jersey



### 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-A14** 200 mm with 14/20 socket    **GB-C-450-A14** 450 mm with 14/20 socket  
**GB-C-200-B19** 200 mm with 19/26 socket    **GB-C-450-B19** 450 mm with 19/26 socket  
**GB-C-200-A24** 200 mm with 24/40 socket    **GB-C-450-A24** 450 mm with 24/40 socket  
**GB-C-450-B29** 450 mm with 29/32 socket

**GB-C-350-A14** 350 mm with 14/20 socket    **GB-C-DIST-A24** Distillation adapter for use with  
**GB-C-350-B19** 350 mm with 19/26 socket    24/40 socket CondensSyn  
**GB-C-350-A24** 350 mm with 24/40 socket    † Not more than half full.

