

The CondensSyn Distillation Adapter

New application tool developed in partnership with the University of East Anglia

The CondensSyn Distillation Adapter allows chemists to use the CondensSyn waterless air condenser in a vertical orientation for distillation purposes.

This new application represents an extension to the capabilities and potential water savings delivered by the CondensSyn in laboratories worldwide.

Our customers are concerned about both the environmental impact and indeed running costs of running a research facility where a condenser is considered an essential tool. The water-free alternative, CondensSyn, not only reduces water waste dramatically but is easy to clean, fast to set up, simple to swap between sizes, and has a handy non-roll feature to stop accidents when left on a bench.

Paired with the new Distillation Adapter, CondensSyn provides unbeatable value for the planet and for your budget!



Data:

Tests were completed using an IKA RCT basic with PT1000 temperature probe, DrySyn Scholar heat block, 250 ml round bottom flask, cone thread adapter fitted with thermometer and 100 ml round bottom collection flask. For experiments using the conventional apparatus a still head, water condenser, and vented bend were used. For the CondensSyn experiments the distillation attachment and a CondensSyn replaced these items, pictured right.

The CondensSyn Distillation Adapter

Test Data

| Experiment | Duration (mins) | Condenser Type | % Loss |
|---|-----------------|-----------------|--------|
| Clove oil distillation | 90 | CondensSyn | 0.88 |
| | | Water Condenser | 1.40 |
| Ethanol removal (50:50 aqueous base/ ethanol) | 60 | CondensSyn | 0.63 |
| | | Water Condenser | 1.17 |
| Methanol removal (90:10 ethan-1,2-diol/ methanol) | 60 | CondensSyn | 0.62 |
| | | Water Condenser | 0.72 |
| Cyclopentadiene distillation | 60 | CondensSyn | 0.64 |
| | | Water Condenser | 0.51 |
| Pyrrole vacuum distillation | 30 | CondensSyn | 2.01 |
| | | Water Condenser | 1.66 |



Purchase options

Choose your CondensSyn:

GB-C-200-B24: 200mm CondensSyn with B24 socket

GB-C-350-B24: 350mm CondensSyn with B24 socket

GB-C-450-B24: 450mm CondensSyn with B24 socket

Then add the Distillation Adapter

GB-C-DIST-B24 CondensSyn Distillation Adapter with B24 fittings