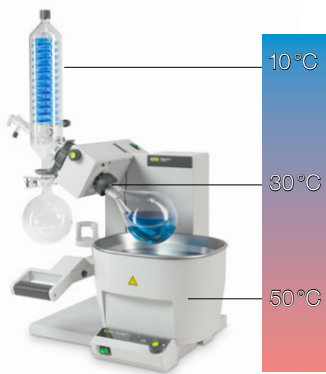


Increase your distillation efficiency

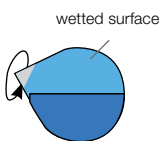
The following tips help you improve the efficiency of your evaporation process, to save time, to conserve energy and to reduce the environmental impact.

$\Delta 20^\circ\text{C}$ rule - 10/30/50 $^\circ\text{C}$



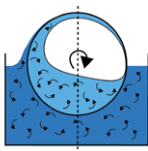
1. Set heating bath temperature 50 $^\circ\text{C}$
2. Cooling water temperature 10 $^\circ\text{C}$ or lower
3. Adjust needed vacuum for a boiling point of 30 $^\circ\text{C}$ according to the list of solvents

Immersion angle



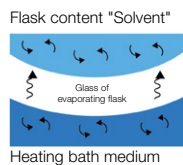
Use standard position (25 $^\circ$) for best efficiency without jeopardizing the sample

Rotation speed



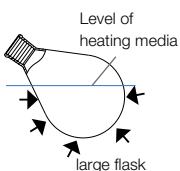
Use 250 to 280 rpm for maximum turbulence at high durability

Flask thickness



Use 1.8 mm thick flasks (1 L) for best temperature exchange at high safety

Flask sizes



Select a flask that accommodates approximately twice the starting sample volume

Download the comprehensive evaporation guide white papers:
www.buchi.com/application



| Solvent | Formula | Vacuum* |
|--|--------------|---------|
| Acetic acid | $C_2H_4O_2$ | 26 |
| Acetone | C_3H_6O | 370 |
| Acetonitrile | C_2H_3N | 153 |
| Benzene | C_6H_6 | 162 |
| <i>n</i> -Amyl alcohol, <i>n</i> -pentanol | $C_5H_{12}O$ | 6 |
| <i>n</i> -Butanol | $C_4H_{10}O$ | 14 |
| <i>tert</i> -Butanol, 2-methyl-2-propanol | $C_4H_{10}O$ | 78 |
| Chlorobenzene | C_6H_5Cl | 22 |
| Chloroform | $CHCl_3$ | 332 |
| Cyclohexane | C_6H_{12} | 154 |
| Dichloromethane, methylene chloride | CH_2Cl_2 | 699 |
| Diethylether | $C_4H_{10}O$ | 838 |
| <i>trans</i> -1,2-Dichloroethylene | $C_2H_2Cl_2$ | 317 |
| Diisopropylether | $C_6H_{14}O$ | 251 |
| Dioxane | $C_4H_8O_2$ | 68 |
| Dimethylformamide (DMF) | C_3H_7NO | 6 |
| Ethanol | C_2H_6O | 97 |
| Ethylacetate | $C_4H_8O_2$ | 153 |
| Heptane | C_7H_{16} | 77 |
| Hexane | C_6H_{14} | 264 |
| Isopropyl alcohol | C_3H_8O | 78 |
| Isoamyl alcohol | $C_5H_{12}O$ | 9 |
| Methanol | CH_4O | 218 |
| Pentane | C_5H_{12} | 834 |
| Propionic acid | C_3H_6O | 8 |
| <i>n</i> -Propylalcohol | C_3H_8O | 37 |
| Pentachloroethane | C_2HCl_5 | 8 |
| 1,1, 2,2-Tetrachloroethane | $C_2H_2Cl_4$ | 16 |
| 1,1,1-Trichloroethane | $C_2H_3Cl_3$ | 204 |
| Tetrachloromethane | CCl_4 | 179 |
| Tetrahydrofurane (THF) | C_4H_8O | 249 |
| Toluene | C_7H_8 | 48 |
| Trichloroethylene | C_2HCl_3 | 119 |
| Water | H_2O | 42 |
| Xylene | C_8H_{10} | 15 |

*Pressure in mbar for boiling point at 30 °C (heating bath 50 °C)

