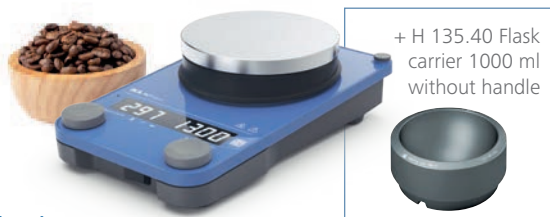


## LAB ESSENTIALS FOR THE NATURAL PRODUCT INDUSTRY



### Magnetic stirrer

#### RCT basic

- > Activation of chemical reactions and synthesis procedures with precise control of the sample temperature
- > Gentle mixing under low shear to promote particle collision for accelerated reaction times



### Dry mill

#### MultiDrive basic M 20 successor package

- > Grinding raw materials for isolation and improved extraction efficiency of natural products
- > Real time temperature measuring and integrated cooling chamber to prevent thermal degradation



### Drying oven

#### IKA Oven 125 basic - dry

- > Gentle heating to remove moisture from lightweight samples such as leaves and powders
- > Thermal pretreatment of biomass for efficient extraction



### Vacuum pump

#### VACSTAR control

- > Fast recovery of extraction solvents under strong vacuum and low heating temperature
- > Automatic boiling point detection to detect and provide an optimum pressure for any known or unknown solvents



### Incubator Shaker

#### KS 4000 ic control

- > Used to support natural product extraction procedures from raw materials
- > Cell culture inoculation for microbial assays



### Temperature control

#### ICC basic eco 18

- > Enzyme kinetics studies and activity testing with a temperature stability of up to +/- 0.02 °C
- > Cell culture, extraction and pretreatment of biomass

# IKA RECOMMENDATION

/// For understanding and analysing natural products



## RV 10 auto pro V Rotary Evaporator

### APPLICATION

Concentration of natural extracts to a predefined sample volume prior to analysis in HPLC and GC/MS

### SOLUTION

> IKA's PATENTED volume dependent distillation function: automatic distillation of the desired volume of natural extracts before sample analysis.



## RV 10.500 Foam brake (NS 29/32)

### APPLICATION

Solvent removal from saponin samples

### SOLUTION

> Rising foam produces burst in the glass ball extension. This stops foam from entering the receiving flask and the condenser.  
> The RV 10 auto pro unit comes with a vent key for instantaneous foam dissipation.



## RV 10.606 Distilling spider with 5 flasks 50 ml (NS 29/32)

### APPLICATION

Distilling many small volume samples at once by removing the same solvent

### SOLUTION

> IKA distilling spider reduces operation time by simultaneous distilling many samples (up to 20).



## RV 10.400 Evaporation cylinder (NS 29/32, 500 ml)

### APPLICATION

Removal of viscous or sticky samples from the evaporation flask after distillation for subsequent analysis

### SOLUTION

> Wide cylindrical flask opening allows easy removal of viscous samples after distillation.

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