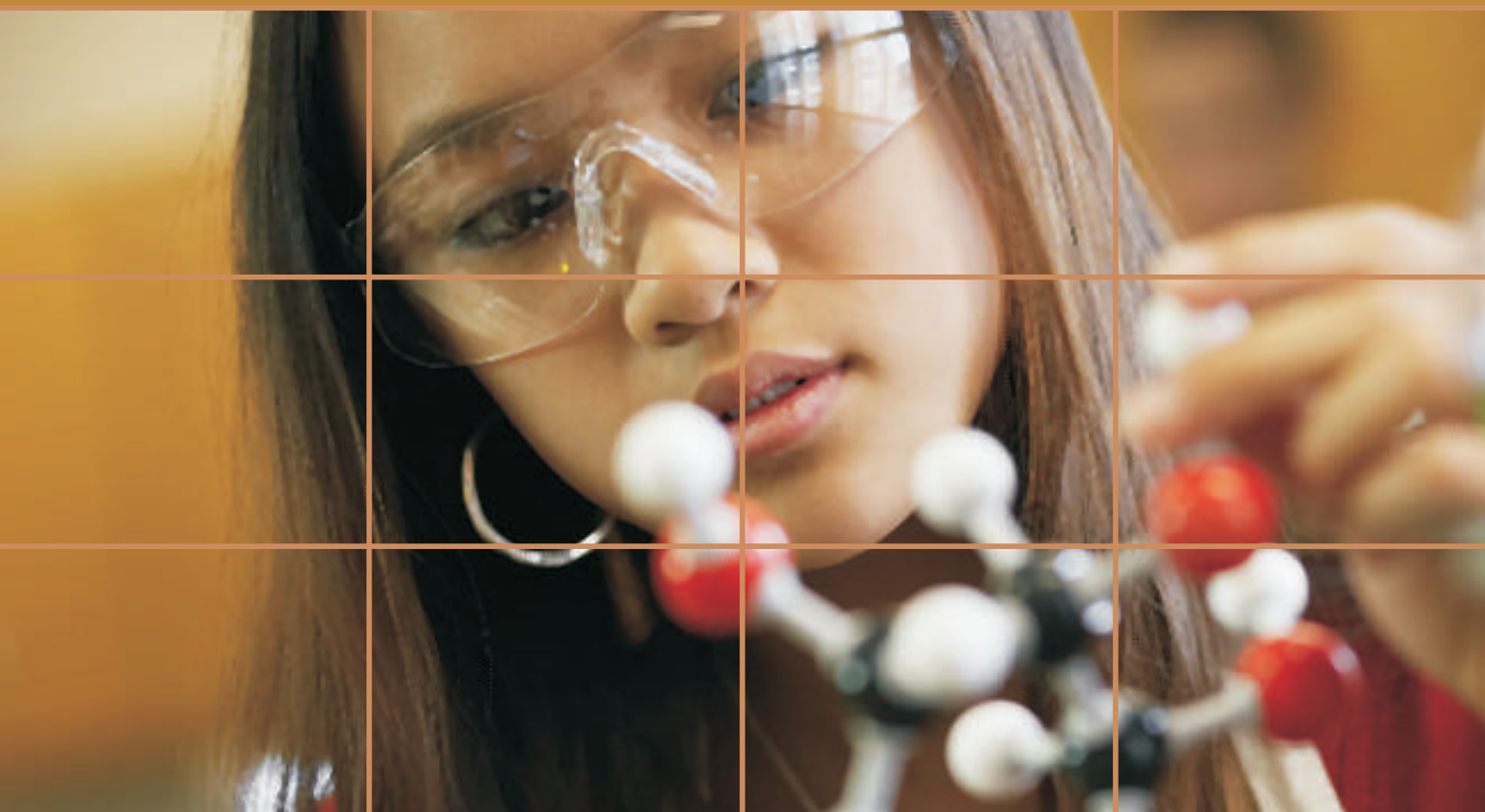
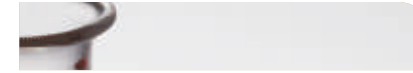
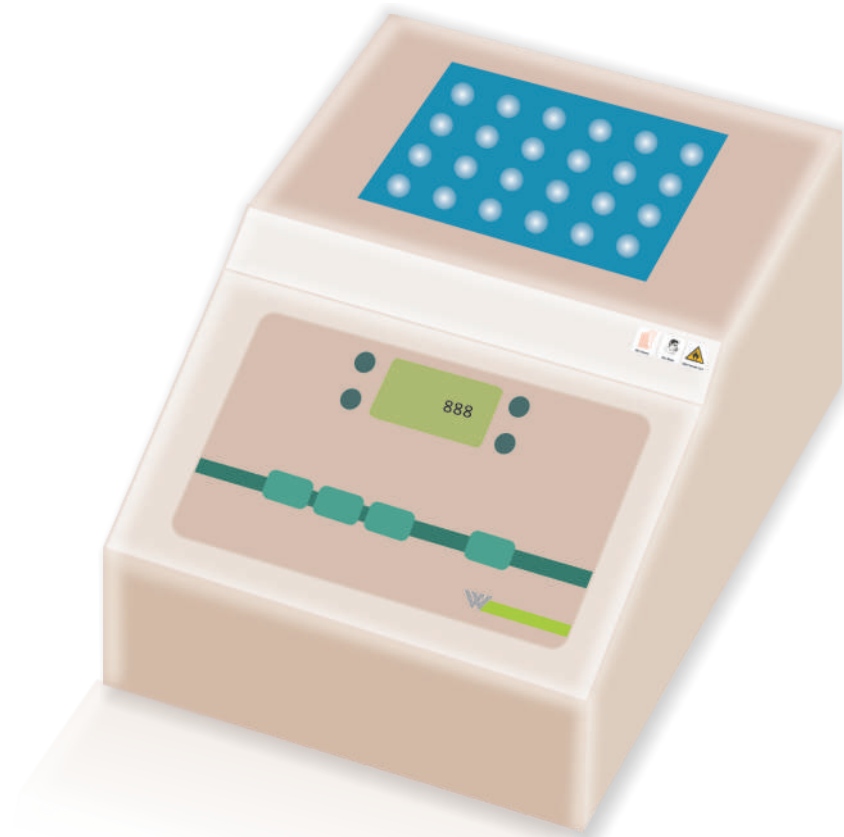


# Micro Distillation **Unit**





- Models:
- ACM-54091 W



#### Introduction And Process Explanation

The Kjeldahl method for the determination of organic nitrogen is the worldwide standard for the purpose of calculating the protein content in both human food and animal food. Additionally, Kjeldahl has been adapted as a standard method of nitrogen analysis in water, wastewater, fertilizer, and fossil fuels, to name a few.

The Kjeldahl method for nitrogen analysis is composed of three distinct steps. These are digestion, distillation, and titration.

#### The Distillation Step

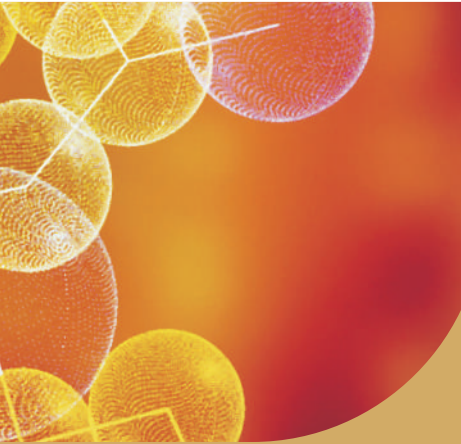
Distillation involves separation of ammonia - nitrogen from the digestate. This is accomplished by raising the pH with sodium hydroxide (NaOH). This changes the ammonium ( $\text{NH}_4^+$ ) ion to ammonia ( $\text{NH}_3$ ). Now it is possible to separate the nitrogen by distilling the ammonia and collecting the distillate in a suitable trapping medium. Today collection of ammonia is usually done by absorption into a solution of four percent boric acid. The ammonia is bound to the boric acid in the form of ammonium borate.

#### Product Details and Over View



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# Micro Distillation Unit

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The equipment has a very heavy casted top made of high grade stainless steel block of grade SS-304 with room for heating 40 digestion tubes made of highly energy efficient borosilicate glass of 75 ml each. The suitable value heating element are made of high grade kanthal A-I non magnetic wire. These heaters are strategically placed throughout the chamber for uniform temperature distribution through the chamber. The outer casing of the equipment is made of thick PCRC sheet duly pre treated with primers for rust proofing and painted with attractive stove enamel paint or powder coated. The 75mm gap between the two walls is filled with mineral wool to have minimal thermal loss and maximum energy efficiency.

**Temperature Range :**  
**Temperature Range : 50°C to 350°C**



### **Temperature Control:**

Temperature is controlled through electronic solid state temperature controller cum indicator or micro processor based digital temperature controller cum indicator.

### **Temperature Sensitivity**

The temperature is controlled with an efficiency of + 2% (Set Value)

### **Control Panel**

The control panel is fitted at the side of the equipment, it comprises of mains on/off switch, neon power indicator light, heater on/off indicator light, digital temperature controller cum indicator.

### **Model**

Model Acm-54096- W -20 T(For 20 tubes)  
 Model Acm-54096- W -36 T(for 36 tubes)



# Micro Distillation Unit

# WEIBER®



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