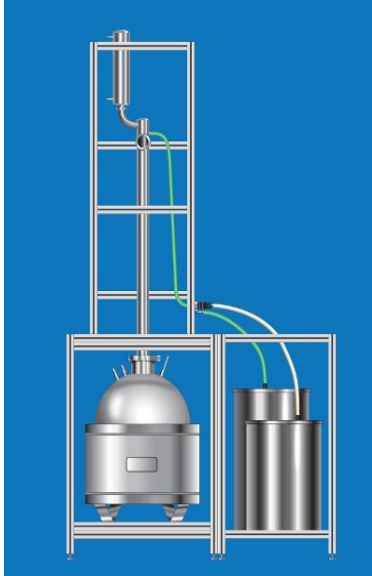


Pilot Scale 50 – 2000 Liters



Pilot Scale Distillation Equipment

Every customer has their own unique needs. Customize the distillation system with the features that are right for you.

High Efficiency: The key to a good fractional distillation system is a high efficiency distillation column. The more efficient the distillation column, the higher the purity of the distilled material.

B/R builds high efficiency distillation columns in 15 theoretical plate sections (approximately 110 cm). Column sections can be stacked 2 or 3 high in order to give 15, 30 or 45 theoretical plates of separating power. You can choose the amount of separating power needed for your application.

Steel Construction: Building a pilot scale distillation system from steel is an important safety feature due to the large volume of flammable material being distilled. Distillation systems can be made from thick carbon steel or stainless steel according to your needs. We can also electropolish the distillation system in order to passivate the contact surfaces.

Customized for your Application: The pilot scale fractional distillation system can be configured according to your needs. Automation, vacuum systems, fraction collectors and other accessories can be integrated into the SPC distillation system as needed. The result is a distillation apparatus customized to your specific needs.

Easy to use: The distillation process is fully automated from beginning to end, minimizing the time needed to operate the equipment. Easy programming of parameters makes you feel like a distillation expert. Heating, collecting of distillate and shut down of equipment at completion are all done automatically. Optional control from a PC.

Common applications include:

- Crude Oil Distillation
- Petroleum Distillation
- Biodiesel Distillation
- High Purity Fractional Distillation
- Essential Oil Purification
- Vacuum Distillation
- Research Applications



Lab Scale 1 – 50 Liters

Lab scale fractional distillation

Specifications for 9600 lab scale fractional distillation by B/R Instrument. Distill samples from 1 to 50 liters

High Efficiency: These lab scale fractional distillation systems have up to 50 theoretical plates at atmospheric pressure. The very efficient distillation column is well suited for producing high purity materials and making difficult separations.

Customized for your Application: The 9600 lab scale distillation system can be configured according to your needs. Automation, vacuum systems, fraction collectors and other accessories can be integrated into the distillation system as needed. The result is a distillation apparatus customized to your specific needs.

Easy to use: The fractional distillation process is fully automated from beginning to end, minimizing the time needed to operate the equipment. Easy programming of parameters makes you feel like a distillation expert. Heating, collecting of distillate and shut down of equipment at completion are all done automatically. Optional control from a PC is available.

Common applications include:

- High Purity Solvent Recycling
- Petroleum Distillation
- Biodiesel Distillation
- Solvent Purification
- High Purity Fractional Distillation
- Essential Oil Purification
- Vacuum Distillation
- Crude Oil Distillation



Lab Scale 100 – 1000 ml



Mini fractional distillation

The 36-100 mini fractional distillation system is designed for difficult separations for samples in the 100-1000 ml range

High Efficiency:

This mini distillation system has up to 200 theoretical plates at atmospheric pressure. The very high number of theoretical plates allows it to produce extremely high purity materials and making difficult separations on small sample sizes.

How Does it Work?

The key to getting a great separation on small samples is spinning band technology. The spinning band combines high efficiency with low “hold up”. Less than 0.1 ml of sample is “held up” in the distillation column. Since the column only holds a small amount of sample, it can distill small sample sizes and give a high degree of separation.



Customized for your Application:

The 36-100 mini distillation system can be configured according to your needs. Automation, vacuum systems, fraction collectors and other accessories can be integrated into the mini distillation system as needed. The result is a distillation apparatus customized to your specific needs.

Easy to use:

The distillation process is fully automated from beginning to end, minimizing the time needed to operate the equipment. Easy programming of parameters makes you feel like a distillation expert. Heating, collecting of distillate and shut down of equipment at completion are all done automatically. Optional control from a PC.

Common applications include:

- Crude Oil Distillation
- Petroleum Distillation
- Biodiesel Distillation
- High Purity Fractional Distillation
- Essential Oil Purification
- Vacuum Distillation
- Research Applications

Lab Scale 7 – 100 ml



Micro fractional distillation

The 800 micro fractional distillation system is designed for challenging separations for the smallest of samples (7-100 ml).

High Efficiency:

This micro distillation system has up to 30 theoretical plates at atmospheric pressure. It is ideal for producing high purity materials and making difficult separations on very small samples.

How Does it Work?

The key to getting a great separation on micro samples is spinning band technology. The spinning band combines high efficiency distillation with low “hold up”. Less than 0.1 ml of sample is “held up” in the distillation column. The micro spinning band distills tiny samples because only 0.1 ml of sample is actually in the distillation column at any time.

Customized for your Application:

The 800 micro distillation system can be configured according to your needs. Automation, vacuum systems, fraction collectors and other accessories can be integrated into the micro distillation system as needed. The result is a distillation apparatus customized to your specific needs.

Easy to use:

The micro distillation process is fully automated from beginning to end, minimizing the time needed to operate the equipment. Easy programming of parameters makes you feel like a distillation expert. Heating, collecting of distillate and shut down of equipment at completion are all done automatically. Optional control from a PC.

Common applications include:

- Crude Oil Distillation
- Petroleum Distillation
- Biodiesel Distillation
- High Purity Fractional Distillation
- Essential Oil Purification
- Vacuum Distillation

