

635-0850 (35-085) Hand Crank Vacuum Pump

Description: Our high quality vacuum/pressure pump is a practical alternative to the flimsy plastic or expensive electric models on the market. Its heavy steel construction ensures it won't bounce around as lighter models might. Because it is geared to suck vacuum pressure through the same port regardless of which way the handle is cranked, the pump action is highly efficient. The unit is ideal wherever a vacuum or pressure is required. Use it for experiments with vacuum tubes, vacuum filters, Magdeburg hemispheres, bell jars, density experiments, and many others.

Warranty and Parts:

We replace all defective or missing parts free of charge. Additional replacement parts may be ordered toll-free. We accept MasterCard, Visa, checks and School P.O.s. All products warranted to be free from defect for 90 days. Does not apply to accident, misuse or normal wear and tear. Intended for children 13 years of age and up. This item is not a toy. It may contain small parts that can be choking hazards. Adult supervision is required.

Related Products:

Science First[®] is a designer and manufacturer of hands-on science labs. Our products are available from most science education distributors. For more information contact us.

611-2325 Magdeburg Hemisphere - Duplicate the experiment of 1652 in Magdeburg, Germany - try to pull these spheres apart. Astonish your class with the force of air pressure. In the original experiment, a hollow sphere 22" in diameter was cut in two and then placed together. The air was pumped out and the valve closed. The force of the atmosphere was strong enough to hold both halves together despite sixteen horses (8 to a side) harnessed to pull them apart. When air was let inside the hemispheres, they fell apart from their own weight.

Now priced for the tightest budget and almost indestructible, this plastic science lab withstands 180 pounds of force. Includes: Two ABS plastic hemispheres, 4.75" in dia; plastic exhaust valve to fit 1/4" dia pressure tubing; molded handles; illustrated instructions. Needs hand pump. Wt: 11 oz. Box: 8" x 6.

611-2340 Bell in a Vacuum - Nature, of course, abhors a vacuum - and sound waves won't travel through one. Prove it with a ringing bell inside a sealed glass jar. As air is gradually pumped out of the jar, the bell becomes faint, then dies. Includes jar, vacuum plate with valve, rubber seal, bell system, and instructions. You need a vacuum pump and 2 AA batteries, not included. Bell may be removed for other vacuum experiments. The inside height is 8 inches, and the diameter is 8 inches.