

Digital Vacuum Gauge Operation Instructions



® Registered; ™ Trademark of Dometic Corporation
© Dometic Corporation

Dometic Corporation • Sanitation Systems

13128 State Rt. 226, P.O. Box 38

Big Prairie, OH 44611-0038 USA

330-496-3211

1-800-321-9886 • Fax: 330-496-3097

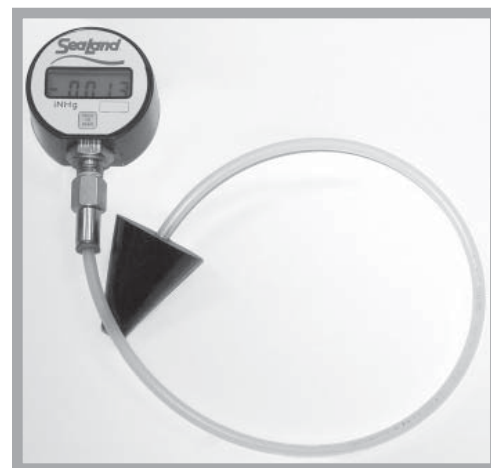
Product Description

The SeaLand Digital Vacuum Gauge (part no. 530003) features a measuring range of 0" to 30" Hg of vacuum. It is ideal for measuring the vacuum levels in a SeaLand® VacuFlush® toilet system.

The accuracy of the gauge is $\pm 1\%$ of full scale, or $\pm .3"$ at 68°F to 72°F (20°C to 22°C).

Temperature has an effect on the gauge – about $\pm .1\%$ of full scale per °F. This would be .03" Hg per °F. If the gauge temperature changes 10°F between readings, the gauge could change as much as .3" Hg due to this temperature change. For highest accuracy, allow the gauge temperature to stabilize if it has been stored in a very cold or very hot environment. Small temperature changes will have minimal effect on the gauge reading.

The Digital Vacuum Gauge operates on a replaceable 9-volt battery.



Digital Vacuum Gauge Operation

To determine system leakage rate and time between pump cycling:

1. Turn off water to toilet.
2. Open the toilet's flush ball and insert the rubber plug into the 1" orifice in the bottom of the base. The vacuum pump will be running.
3. After the vacuum pump shuts off, allow the digital gauge to stabilize for a minute.
4. Push the button on the gauge, and record the vacuum reading to the nearest hundredth of an inch (.01").
5. Keeping the rubber plug in the 1" orifice, wait 15 minutes, and then record a second vacuum reading.
6. Subtract the two readings and record the drop in vacuum.

To identify vacuum leakage point:

1. Turn off water to toilet.
2. Open the toilet flush ball and insert rubber plug into 1" orifice in the bottom of the base (Fig. 1).
If there is no vacuum leak at this point, the leak is above the 1" orifice in the base:
 - Check for a crack in the base, funnel, or flush ball.If there is a vacuum leak, go to next step.
3. Remove inlet hose to vacuum generator and insert rubber plug in the inlet fitting (Fig. 2).
If there is no vacuum leak at this point, the leak is between the toilet and the vacuum generator:
 - Check the hose and clamps between the toilet and the vacuum generator.If there is a vacuum leak:
 - Check duckbill valves for foreign objects or cuts.
 - Check spin nut and fitting between pump and vacuum tank.

