

SENTINEL™ VACUUM CONTROLLERS



L. J. ENGINEERING, INC.

The **Sentinel Vacuum Controller** helps maintain a stable and consistent vacuum essential to proper functioning of a milking system.

Use the **Sentinel** as your primary vacuum controller to maintain stable vacuum or, use with existing variable frequency drive systems to provide: 1) security, 2) a stand-by or secondary vacuum controller, 3) control for wash-up, 4) a secondary relief valve.

The **Sentinel Vacuum Controller** reacts to vacuum change (as little as .1" Hg) in milliseconds and eliminates extreme fluctuations, allowing a pre-set vacuum level to be maintained within ± 0.2 " Hg.

Because each dairy has different vacuum requirements, **Sentinel** provides four models to cover all possible system needs up to 500 CFM ASME.

The **Sentinel Vacuum Controller** is a diaphragm-operated pneumatic valve. With proper installation, it is capable of maintaining a stable vacuum within ± 0.2 " Hg over an adjustable range of 8"-15" Hg at the controller.

The **Sentinel** will return to its set-point within .1" Hg after a drop in vacuum level caused by a leak into the system.

The **Sentinel** is easy to



adjust. It may be set to within .1" Hg of the desired level with a special wrench supplied with each controller (Models 100, 350, 500 only). This key is designed to prevent unauthorized personnel from changing the vacuum level.

Adjustments to the Mark II are made by turning the rubber knob on top of the controller. Clockwise increases vacuum and counter clockwise lowers it. The rubber knob also acts as a seal and provides friction so that the adjustment will not change.

Features:

- Allows a pre-set vacuum level to be maintained within ± 0.2 " Hg
- Sensitive to 0.1" Hg of vacuum change

- Responds in milliseconds
- American made
- 4 Models

SPECIFICATIONS:

Model 100

- Sensitive to 0.1" Hg change
- Adjustment range 8" – 15" Hg
- Reaction time to change: 50 milliseconds or less
- Finish: Hard anodized aluminum for maximum durability and corrosion resistance
- Adjustment screw (with special wrench to restrict unauthorized tampering).
- 1½" female NPT mounting
- Size: 5" diameter x 12¾" high
- Filters: a. Top dome filter, submicron (LJE Part# 348-33) b. Main filter, standard paper cartridge type (LJE Part# AP-107)

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- Maximum capacity: 150 CFM ASME at 15" Hg
- Direct Sensing
- Weight: 4 lbs.
- Nominal Air Pass-by: 10 CFM ASME
- PEACEKEEPER 462-100: Available noise suppressor with added filtration

Model 350

- Sensitive to 0.1" Hg change
- Adjustment range 8" - 15" Hg
- Reaction time to change: 50 milliseconds or less
- Hard anodized aluminum for maximum durability and corrosion resistance.
- Adjustment screw (with special wrench to restrict unauthorized tampering).
- 3" female NPT mounting
- Size: 7" diameter x 13¼" high
- Filters: a. Top dome filter, submicron (LJE Part# 348-33) b. Main filter, standard paper cartridge type (LJE Part# AP-58)
- Mounting: Quick-disconnect stainless steel clamp
- Maximum capacity: 350 CFM ASME at 15" Hg
- Direct Sensing
- Weight: 10 lbs.
- Nominal Air Pass-by: 15 CFM ASME
- PEACEKEEPER 462-350: Available noise suppressor with added filtration

Model 500

- Sensitive to 0.1" Hg change

- Adjustment range 8" - 15" Hg
- Reaction time to change: 50 milliseconds or less
- Hard anodized aluminum for maximum durability and corrosion resistance.
- Adjustment screw (with special wrench to restrict unauthorized tampering).
- 3" female NPT mounting
- Size: 7" diameter x 13¼" high
- Filters: a. Top dome filter, submicron (LJE Part# 348-33) b. Main filter, standard paper cartridge type (LJE Part# AP-58)
- Mounting: Quick-disconnect stainless steel clamp
- Maximum capacity: 500 CFM ASME at 15" Hg
- Direct Sensing
- Weight: 10 lbs.
- Nominal Air Pass-by: 25 CFM ASME
- PEACEKEEPER 462-350: Available noise suppressor with added filtration

Mark II

- Sensitive to 0.1" Hg change
- Adjustment range 10" - 15" Hg
- Minimum flow while operating: 1 CFM ASME
- Finish: ABS and Lexan plastics
- Adjustment knob

- 2" male NPT mounting
- Size: 6" diameter x 11¼" high
- Filters: a. Top dome filter, submicron (LJE Part# 406-22) b. Main filter, sponge type (LJE Part# 406-21)
- Maximum capacity: 150 CFM ASME at 15" Hg
- Direct Sensing
- Weight: 1¼ lbs.
- PEACEKEEPER 462-200: Available noise suppressor with added filtration

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