

## Dairy Soaking System

Air movement cools cows that are soaked to the hide more effectively than cows that are dry. Schaefer's Dairy Soaking System soaks cows to the hide and, in conjunction with Schaefer circulation fans, lowers cow temperatures and increases milk production and reproductive rates.

The Soaking System showers the animals for a short period of time while at the feed line, in the holding pen or returning from milking. After the shower shuts off, Schaefer circulation fans blow across the cows' backs to increase evaporative cooling.

Systems can be designed for any dairy layout using standard components including controllers/timers, PVC piping, valves and filters, shower nozzles and check valves.

### Features and Benefits

- Extremely cost effective cow-cooling solution
- High capacity, low pressure, large droplet soaker nozzles for effective, quick soaking
- 110V or 220V controllers; controlling 1 to 4 zones
- Time activated or motion activated sprinklers



Roof Vent RV-3000

## Air Inlets and Vents

Animal confinement facilities require weather-proof inlets and vents to maintain healthy and comfortable environments. Choose from Schaefer's wide selection of cost effective, long-lived, polyethylene roof, ceiling and wall inlets and vents.

## Standard and Motorized PVC Shutters

Schaefer's white exterior grade PVC shutters are maintenance free, resistant to rust and corrosion and have an efficient, aerodynamic design. Louvers are curved for a tight seal when closed and corners are fused together for exceptional strength and durability. Optional integrated shutter motors available.



Motorized PVC Shutters and MIT Models



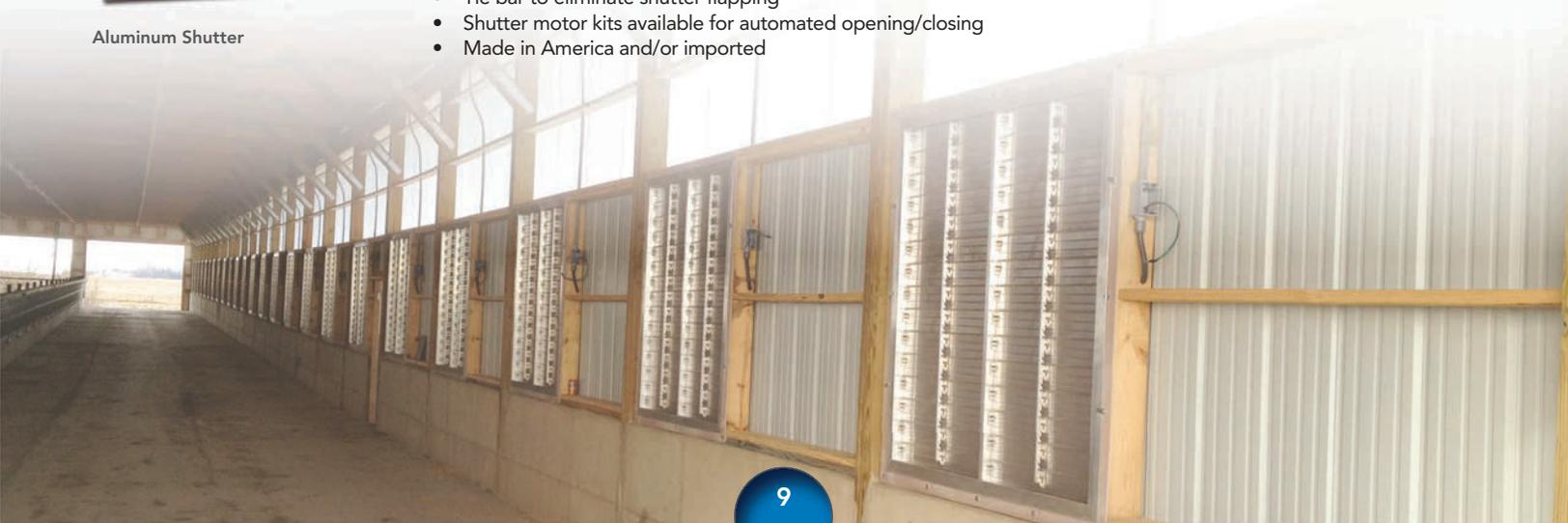
Aluminum Shutter

## Aluminum Shutters

Schaefer's aluminum shutters allow airflow in a single direction and are used as building air inlets to feed Schaefer exhaust fans, or on exhaust fans to prevent air entry when the fan is not operating. Aluminum shutters are built tough for long life in the most demanding environments, all at an affordable price.

### Features and Benefits

- Constructed of heavy-duty brushed aluminum for corrosion resistance and greater durability
- Interlocking louvers for maximum weather protection and lightweight for high efficiency and easy installation
- Tie bar to eliminate shutter flapping
- Shutter motor kits available for automated opening/closing
- Made in America and/or imported



## FlipFan® Dairy Cooling System

FlipFan® from Schaefer is the state-of-the-art in cow cooling. Unlike fixed fan cooling systems, FlipFan adjusts for sun angle, wind speed, temperature and humidity to **keep the cooling on your cows** and provide maximum cow cooling all day and night.

The patented Schaefer FlipFan dairy cooling system consists of advanced 36" high velocity misting fans mounted on a horizontal rotational mounting structure and an advanced control system which adjusts mist output and fan direction to compensate for time of day, wind speed and wind direction, and to "flip" 180 degrees to point outside of the shade for nighttime cow cooling. FlipFans install quickly and easily in the eaves of simple, flat shades that are a minimum of 14' high.



In side-by-side tests against other leading arid climate dairy cooling systems, FlipFan provides equal or greater cow cooling, using less electricity and less water.

### FlipFan Features and Benefits

- 36" diameter high velocity misting fans, with rugged polyethylene housings, 3-wing stainless steel blades, stainless steel air straighteners and choice of ½ hp or ¾ hp harsh duty motors
- 2 to 4 fans per bay, provide an average air velocity of 7 mph across the shade and up to 2 gallon/minute of evaporative cooling per bay
- 2-line, 3-stage, 300 psi stainless steel misting system
- Control System and Pump Station manages up to 84 fans and optional shade curtains, with variable mist (variable cooling) over a broad temperature range
- Environmental inputs include ambient temperature, relative humidity, wind speed and sun angle
- Control System ranges from simple manual controls to tablet or smartphone driven PLCs



## SUPERCOOLER™ SCHAEFER

SuperCooler™ is Schaefer's large, stationary, through-the-roof evaporative cooling fan that has proven to be very effective in maintaining cow comfort and high milk production levels during even the hottest days in extremely hot and arid climates, such as the US Southwest and the Middle East.

SuperCoolers are typically deployed in dairies with high roofs and which are protected from the prevailing wind and sun with shade curtains. Rows of SuperCoolers are installed down both sides of a peaked roof dairy facility, typically at 20' spacing. A single SuperCooler cools an area of up to 1,000 square feet, or enough area for 12 to 15 cows, depending on cow density.

### SuperCooler Features and Benefits

- 54" diameter G90 galvanized housings (stainless steel housings optional)
- Large radius fiberglass inlet and outlet flanges for maximum airflow with UV protective gel-coat finish for long life
- Choice of gear drive or belt drive configuration
- 5 hp, 3-phase motor; TEFC/Class F (GD) or TEAO/Class F (BD)
- 54" diameter, high efficiency, 5-wing cast aluminum blade
- Approximately 25,000 total cfm
- 5-ring, 15-stage, 300 psi stainless steel misting system
- Control System and Pump Station manages up to 33 SuperCoolers and the integrated shade curtains, with variable mist (variable cooling) over a temperature range from 80°F to 110°F for maximum cooling without ground wetting
- Environmental inputs include ambient temperature, relative humidity, wind speed and rain
- Control System utilizes a Wi-Fi network for communication between the PLC, the main office computer, and an optional SCADA-based smartphone app to allow control and maintenance of the system from remote and local locations



Call Customer Care at 1.800.779.3267 to learn how these systems can improve your dairy's bottom line!