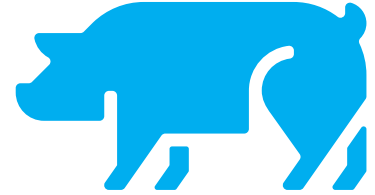


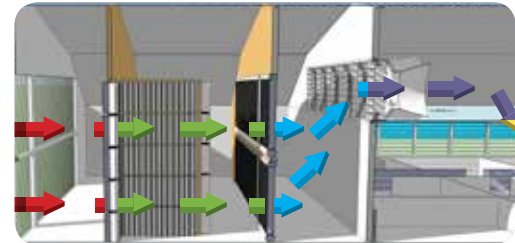
OVER  
350,000 SOWS



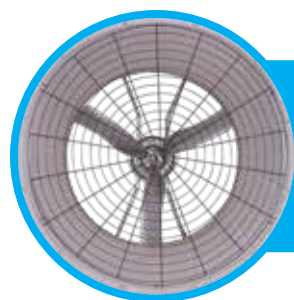
PROTECTED BY  
MUNTERS

# Positive Pressure Filtered Swine Facilities

## Trust Experience



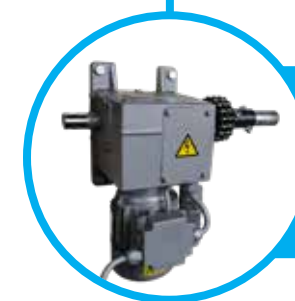
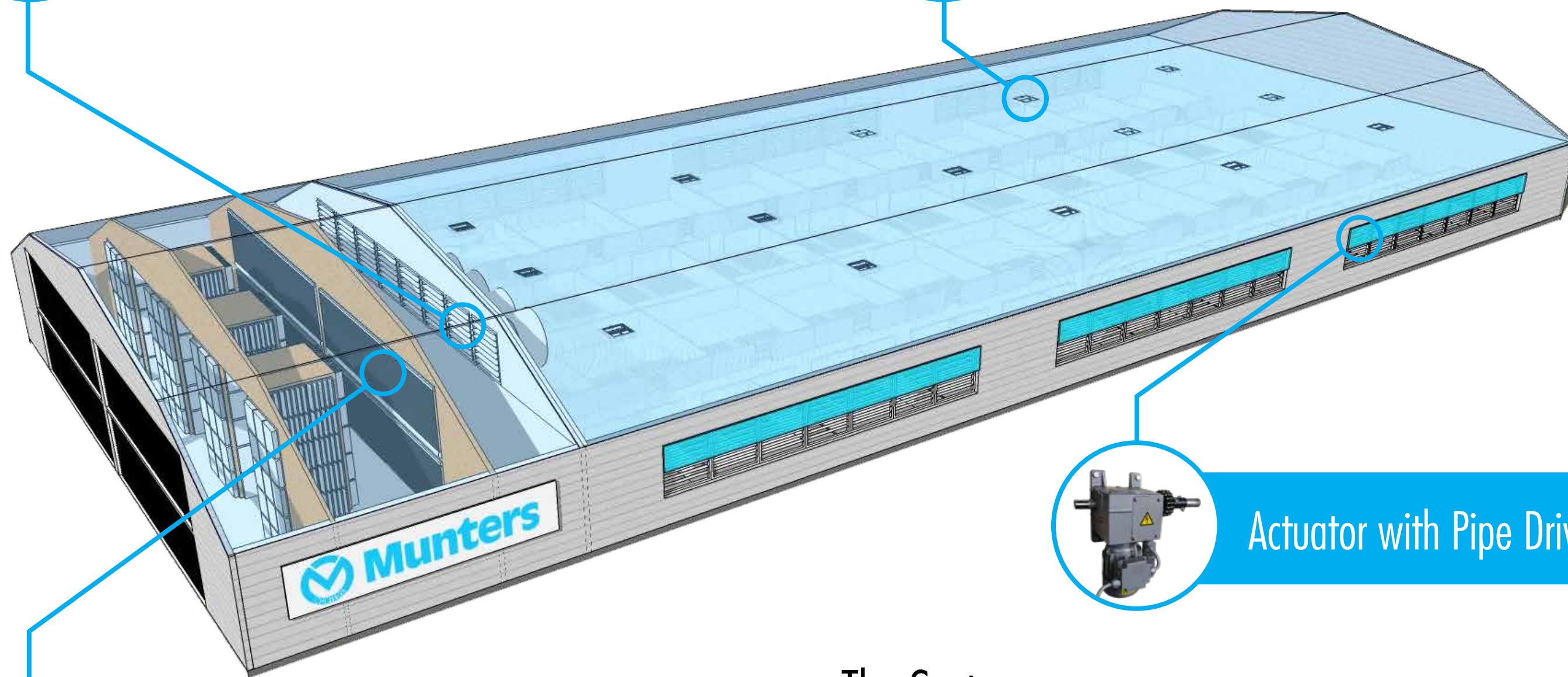
- 95% of all positive pressure filtered buildings in the US are designed and equipped with Munters Ventilation Systems.
- Used by the top producers in the US
- System gives you the best chances of eliminating a breach of non-filtered air
- Unique multi-stage design using a pressurized attic for precision control over airflow
- Munters Experience
- Munters Drive EC technology fans
  - » Handles the higher static pressures like no other
  - » Ensures fan operates at precise speed regardless of interference
  - » High efficiency, for maximum energy savings
  - » Little to no maintenance



VX51 with Munters Drive



BI28 Ceiling Inlet



Actuator with Pipe Drive

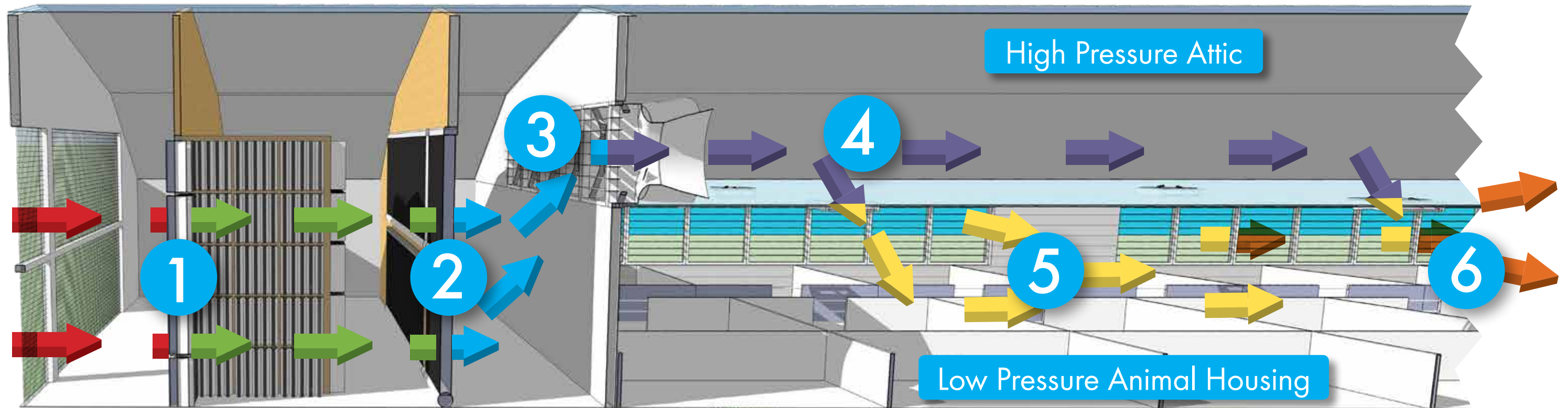


CT Cooling with CELdek

## The System

Munters has been designing and refining filtered swine facility ventilation for many years. Our design engineers have worked with some of the top hog producers in the world leading us to our Positive Pressure Ventilation Design. This is not a new concept. In fact, Munters/Aerotech was designing positive pressure systems nearly 50 years ago. However, with the development of filtration for animal health, positive pressure gives you the best results for healthy livestock. Our latest design incorporates filters, cooling, Munters Drive VX Fans, BI28 Inlets and actuated outlet walls. All carefully engineered to create a Positive Pressure Ventilation System that will protect your animals.

# Munters Positive Pressure Filter Design



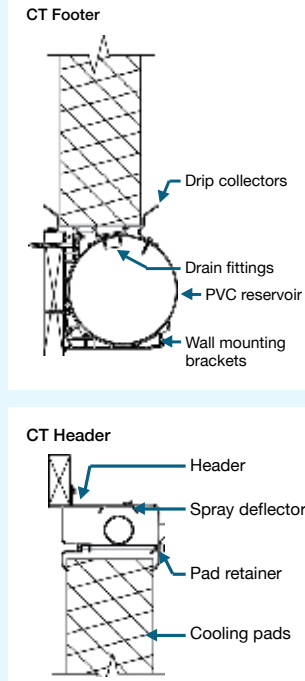
- 1 Outdoor unfiltered ambient temperature air passes through filter wall, removing airborne pathogens.
- 2 Filtered air passes through cooling wall, cooling the air to the perfect temperature.
- 3 Munters Drive VX fans precisely pressurize the attic with filtered & cooled air.

- 4 Ventilation flows through BI28 Inlets responding to pressure difference from attic to Animal Housing, maintaining a consistent pressure difference between the attic and animal housing.
- 5 Munters backdraft shutters prevent pressure drops and back drafts in windy conditions.
- 6 Actuator with pipe drive system adjusts curtain openings to maintain constant room pressure and provide outlet for metabolic gases and moisture.



### CT Cooling with CELdek

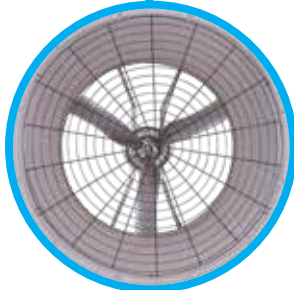
- CT Cooling frame system is the benchmark of the industry
- Corrosion resistant extruded aluminum header
- Designed to assure even and complete water coverage for max performance
- Custom designed drip collect for maximum water capacity and easy installation
- UV resistant PVC reservoir
- Heavy duty extruded aluminum wall mounting brackets
- Proven performance and durability



### BI28 Ceiling Inlet - Positive Pressure Model

- Aerodynamic frame and door design
- Doors are insulated and close tightly to prevent condensation
- Stainless steel door hinges and closure latch hardware
- Special Positive Pressure version available to handle the unique environment

Catalog No.	0.1" SP	0.125" SP	0.15" SP
BI28SP/SPM	2,100 CFM	2,575 CFM	3,000 CFM
BI28M-PP01	2,700 CFM	3,050 CFM	3,300 CFM
BI48M-01	4,900 CFM	5,500 CFM	6,100 CFM

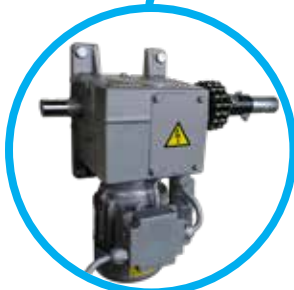


### VX51 with Munters Drive

- Direct Drive EC Motor Technology
- Nearly Maintenance Free, no bearing maintenance, no belts to replace
- Variable Speed option
- Handles the higher pressures of Positive Pressure buildings
- Precise control over airflow, using feedback on drives
- Extreme durability and reliability with over 20,000 units in the field

Performance Information: 51" VX, Three Phase - 460 Volt Motor and Drive

		0.00" SP			0.05" SP		0.10" SP		0.15" SP		0.20" SP		
	RPM	CFM	CFM/Watt		CFM	CFM/Watt	CFM	CFM/Watt	CFM	CFM/Watt	CFM	CFM/Watt	BESS Lab Test
High Efficiency - HE	540	28,300	30.4		26,700	27.1	24,700	23.9	22,500	20.9	19,900	18.0	12679
High Rebate - HR	595	31,200	25.8		29,900	23.3	28,200	21.1	26,300	18.9	24,100	16.7	12680
High Output - HO	655	34,800	21.1		33,300	19.4	31,900	17.7	30,400	16.2	28,700	14.8	12681



### Actuator with Pipe Drive Kit

- Self-braking transmission
- Precision Dual limit switches
- Manual Override switch on machine
- Pipe Drive operation
- Thermally protected motor
- 100% Sealed Components (IP55 rating)
- Easy to use and install
- Optional Potentiometer



[www.munters.com/ppswine](http://www.munters.com/ppswine)

The Positive Pressure Ventilation System is designed by Munters



**Australia** Phone +61 2 8843 1594, [agh.info@munters.com.au](mailto:agh.info@munters.com.au), **Brazil** Phone +55 41 3317 5050, [contato@munters.com](mailto:contato@munters.com), **Canada** Phone +1 517 676 7070, [aghort.info@munters.com](mailto:aghort.info@munters.com), **China** Phone +86 10 8048 3493, [marketing@munters.cn](mailto:marketing@munters.cn), **Denmark** Phone +45 98 623 311, [aghort@munters.dk](mailto:aghort@munters.dk), **Germany** +49 (0) 25 58 - 93 92-0, **India** Phone +91 20 6681 8900, [info@munters.in](mailto:info@munters.in), **Indonesia** Phone +66 2 642 2670, [info@munters.co.th](mailto:info@munters.co.th), **Israel** Phone +972 3 920 6200, [info@munters.co.il](mailto:info@munters.co.il), **Italy** Phone +39 0183 5211, [info@munters.it](mailto:info@munters.it), **Japan** Phone +81 3 5970 0021, [mkk@munters.jp](mailto:mkk@munters.jp), **Korea** Phone +82 27618701, [munters@munters.co.kr](mailto:munters@munters.co.kr), **Mexico** Phone +52 8182625400, [dhinfo@munters.com](mailto:dhinfo@munters.com), **Singapore** Phone +65 7446 828, [info@munters.com.sg](mailto:info@munters.com.sg), **South Africa and Sub-Sahara Countries** Phone +27 11 997 2000, [info@munters.co.za](mailto:info@munters.co.za), **Spain** Phone +39 0183 5211, [info@munters.it](mailto:info@munters.it), **Sweden** Phone +46 8 6266 300, [info@munters.se](mailto:info@munters.se), **Thailand** Phone +66 26422670, [info@munters.co.th](mailto:info@munters.co.th), **Turkey** Phone +90 2627513750, [info@muntersform.com](mailto:info@muntersform.com), **USA** Phone +1 517 676 7070, [aghort.info@munters.com](mailto:aghort.info@munters.com), **Export & Other countries** Phone +39 0183 5211, [info@munters.it](mailto:info@munters.it)

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