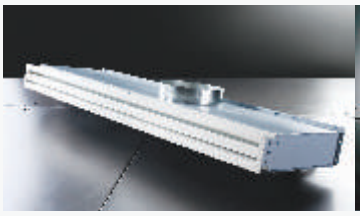
acutherm™
The Individual
Temperature Control People

EVEN
TEMPERATURE
EVEN
COMFORT

Therma-Fuser™ Systems

Variable Air Volume Systems Optimized



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About Acutherm

Founded in 1978, Acutherm designs, manufactures, and distributes a line of modular VAV systems and thermally powered VAV diffusers for use in HVAC systems. The company maintains its own research & development and manufacturing facilities in order to have total control over production lead time and quality. Our dedication to innovation began with the Acutherm Therma-Fuser™ diffuser and continues with our Associated Products and Accessories. This policy has made Acutherm the decisive leader in the VAV diffuser market.

Linear VAV Diffusers

Stand Alone Therma-Fuser™ diffusers provide individual temperature control to precisely match the comfort requirements of each space. Every Therma-Fuser™ diffuser has its own VAV zone of control. The thermostat actuator and damper are built into each diffuser.

15% to 50% Energy Savings over Traditional VAV Box Systems

Adjuster-W
(Wireless Wall Adjuster)

Adjuster-D
(Digital Wall Adjuster)

Control

Individuals have different comfort requirements. The Therma-Fuser™ diffuser allows individuals to select their own comfort setting (temperature).

Comfort

With each Therma-Fuser™ diffuser acting as an individual VAV zone of control, no over cooling or over heating of the occupied space will occur.

Therma-Fuser™ diffuser provides a constant discharge velocity with the benefits of higher throws.

Consistency

Variable discharge opening equals constant discharge air velocity. This creates no air dumping, better room air movement and uniform temperature distribution.

Sustainability

Unlike conventional building controls, Therma-Fuser™ thermally-powered diffusers have no complicated electronics and as a result require no maintenance. We are so confident of their reliability that we warrant them for 10 years.

Energy Saving

Therma-Fuser™ diffusers allow for all low-pressure system designs. No energy is required to operate the diffuser's controls. As Green Building Council members and Energy Star partners, Acutherm is proud to produce the most energy efficient VAV diffusers.

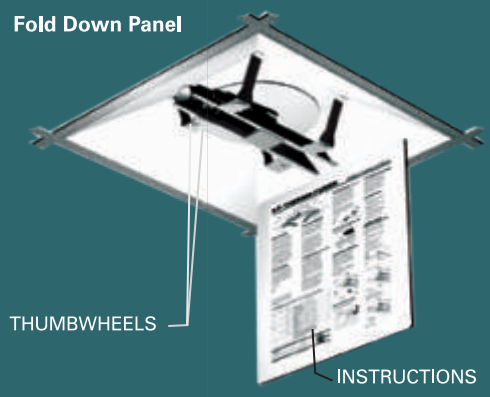
U.S. GREEN BUILDING COUNCIL MEMBER SM

26 LEED Credits

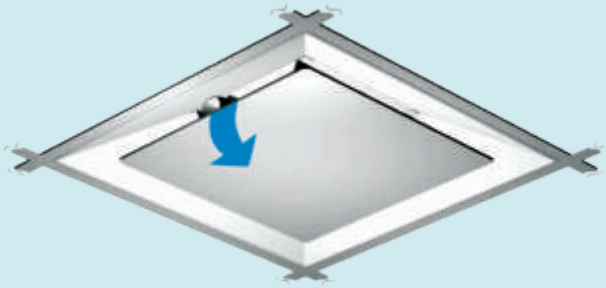
Can be influenced by specifying an Acutherm Therma-Fuser system

"Acutherm thermostat actuators are a more robust version of those used in jet engines."

Fold Down Panel

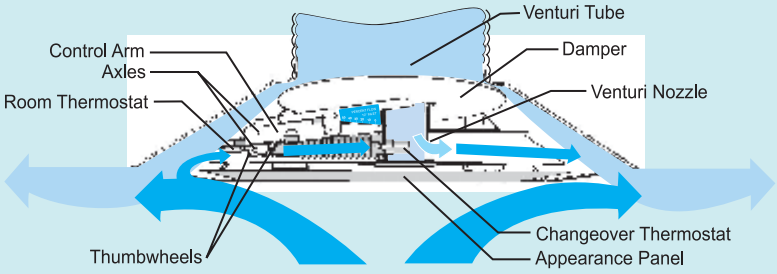


Therma-Fuser™ Diffuser



Only Therma-Fuser™ VAV offers these benefits

- Separate temperature set points for VAV heating & cooling.
- Superior air distribution, longer throws, no dumping, more entrainment, even temperature distribution, higher Air Diffusion Performance Index and better ventilation effectiveness.
- Lowest cost per zone of control.
- Lowest energy VAV terminal - Green VAV.
- Low to no maintenance - 10 year warranty.
- Easily adapts to office changes.



How It Works

Air circulates around the room in a circular motion. Secondary air rises under the diffuser, passes beneath the appearance panel and entrains with the primary air at the outside edge of the diffuser. This secondary air best represents average room temperature. The room thermostat/actuator is a large brass cylinder containing a petroleum based wax, which expands or contracts according to the room temperature, and adjusts the damper position.

Quick Reference Guide & Associated Products

SIZE	MODEL	VAV Cooling and Warm up (-CW)	NECK	SLOTS	DAMPER	AIR FLOW CFM @ in wg	SPECIAL FEATURES
2' x 2' Square	ST		6", 8", 10" & 12"	—	Disc	105 @ 0.05 to 740 @ 0.25	Adjustable minimum flow dial "One Step" lever for balancing
	TF	✓	6", 8", 10" & 12"	—	Blade	100 @ 0.05 to 720 @ 0.25	Superior throw with 66 linear inches of variable discharge area
	TB	✓	6", 8", 10" & 12"	—	Disc	100 @ 0.05 to 780 @ 0.25	Lower Cost VAV Cooling only (warm up option)
	VA	✓	6", 8", 10" & 12"	—	Blade	100 @ 0.05 to 568 @ 0.25	Separate inlet for outside air (ASHRAE 62)
	LT	✓	6", 8", 10" & 12"	—	Blade	100 @ 0.05 to 720 @ 0.25	Low Temperature (40°F) application
	EF	✓	6", 8", 10" & 12"	—	Blade	100 @ 0.05 to 720 @ 0.25	DDC interoperable LonWorks® compatible unit
24", 36", 48" & 60" Linear	TL	✓	6", 8", 10" & 12"	1,2,4 Slots 1 & 2 way	Blade	45 @ 0.05 to 903 @ 0.25	Elegant Linear Design VAV cooling only (warm up option)
	TLC	✓	6", 8", 10" & 12"	1,2,4 Slots 1 & 2 way	Blade	45 @ 0.05 to 903 @ 0.25	Continuous Look Linear
	TLW	✓	6", 8", 10" & 12"	1,2,4 Slots 1 & 2 way	Blade	100 @ 0.05 to 903 @ 0.25	Side Wall Linear

• Energy Efficiency • Individual Control • Thermal Control
• Measurement & Verification • Innovation

ENERGY STAR PARTNER

Thousands of Successful Projects Worldwide...

Infosys, Mysore

Adobe, Noida

NIIT, Greater Noida

iGATE, Pune

Commercial Buildings • Hospitals • Airports • Institutions

EXCLUSIVE BUSINESS ASSOCIATES IN INDIA

CANI MERCHANDIZING PVT. LTD.
CANI MARKETING PVT. LTD.

CANI is an exclusive business associate for several high technology companies related to HVAC industry in India. We bring to the HVAC industry highly energy efficient solutions and a wide range of innovative products that are considered the best in the world.

In a short span of time, CANI redefined the insulation business in India with the successful launch of Trocellen Polyolefin Material which has since become an industry standard.

Therma-Fuser VAV Diffusers from Acutherm, USA offer uniform temperature distribution for individual comfort while enabling increased energy savings.These devices contribute significantly to LEED points.

Nihon Spindle cooling towers are CTI / JCI certified for guaranteed performance.They have low noise levels, low energy consumption and innovative space saving design.

CANI is an acronym for Continuous and Never Ending Improvement. Our endeavour is to constantly upgrade the industry with current and innovative technologies from across the world.

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OUR PRINCIPALS : TROCELLEN, acutherm, NihonSpindle, CUBE DX-Central Systems, FabricAir