

Titus Quick Reference Guide

ADVANCING THE SCIENCE OF AIR DISTRIBUTION



Terminal Units / Underfloor Products

Chilled Beams /
Displacement Ventilation

Fan Coils / Air Handlers





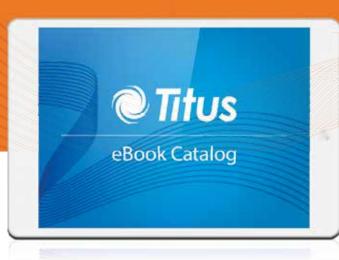






Click. Touch. Scan. Know.







Titus air management products come with a complete suite of digital support tools: QR codes, our proprietary AR app, and eBook Catalog. So you're just a click, touch,

or scan away from videos, installation instructions, and full technical details about Titus products. It's just another way we're redefining how you work with air management products.



More Information on Titus E-Tools

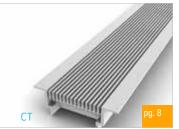




Diffusers



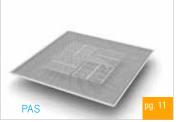








































Grilles & Accessories



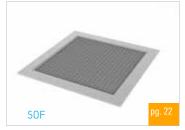




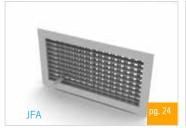


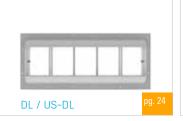
















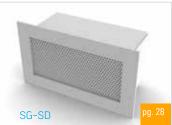


















Displacement & Chilled Beams / Underfloor / Terminal Units / Fan Coils & Air Handlers











































Architectural Ceiling



- » Strong, clean, unobtrusive lines harmonize with the ceiling system, without sacrificing performance
- » Delivers a uniform 360° horizontal air pattern, without excessive noise or pressure drop
- » Excellent choice for variable air volume systems
- MRI compatible (OMNI-AA / OMNI-AA-NT)
- Standard sizes: 6", 8", 10", 12" / Module sizes: 12" x 12", 20" x 20", 24" x 24"





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- » Excellent choice for VAV systems
- » Delivers a tight 4-way horizontal air discharge pattern
- Unique architectural face design with center appliqué (nine standard colors or custom colors and logos)
- Standard sizes: 6", 8", 10", 12" / Module size: 24" x 24"









- » Satisfies architectural as well as engineering criteria
- » Plaque face allows the diffuser to harmonize with ceiling systems without sacrificing performance
- » Deep backpan designed to ensure optimum performance without excessive noise or pressure drop
- » Standard sizes: 6", 8", 10", 12" / Module size: 24" x 24"





- » Designed for architectural ceilings and facilities with exposed ductwork
- » Can be used effectively in heating or cooling applications
- » Uniform 360° discharge pattern
- » Standard sizes: 6", 8", 10", 12"





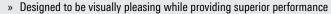


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SUPPLY DIFFUSERS







- » Designed so that a ceiling tile (by others) can be field cut and inserted into the face of the diffuser
- » Excellent choice for VAV systems
- » Standard sizes: 8", 10", 12", 14"









open ceiling

quick ship



» Designed for an architectural look and engineered performance

- » Clean, unobtrusive lines harmonize with ceiling systems without sacrificing performance
- » Delivers a 360° tight horizontal air pattern without excessive noise or pressure drop
- » Standard sizes: 6", 8", 10", 12" / Module size: 24" x 24"











open ceiling

MRI compatible woodgrains retrofit metric sizes op



» Designed to provide a tight 360° circular pattern

- » Provides excellent performance in variable air volume systems
- » Inlet collar is 1 7/8" deep to allow for easy duct connection
- » Standard sizes: 6", 8", 10", 12" / Module size: 24" x 24"





Linear

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- » Designed for variable air volume systems
- » Available with one to eight slots
- » Ideal for continuous length applications



- » Designed for both heating and cooling applications, supply as well as return
- » Available in eight different core styles plus a wide selection of frames and borders
- » Can be selected for ceiling, side wall, or sill installations











- » Designed for both heating and cooling applications, supply as well as return
- » Combines crisply sculptured styling, careful workmanship, and effective air distribution
- » Excellent performance in variable air volume systems





MRI compatible



- » Designed specifically for field attachment of ML or MLR Modulinear diffusers
- » End caps can be turned up to allow installing the MP on continuous runs of ML diffuser
- » Can be used as supply or return

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Round Ceiling



- » Designed for cooling applications
- » Uniform 360° discharge pattern
- » The two horizontal discharge settings allow the diffuser to be adjusted for two different flow rate conditions
- » Standard sizes: 6", 8", 10", 12"









energy solutions

open ceiling



- » Designed for both heating and cooling applications
- » Uniform 360° discharge pattern
- Suitable for factories, warehouses, convention halls, coliseums, shopping malls, and other applications where ceilings are high and conditions are variable
- Standard sizes: 10", 12", 14", 16"







open ceiling



- » Designed for both heating and cooling applications
- » Uniform 360° discharge pattern
- » Suitable for foyers, waiting rooms and other areas with recessed lighting fixtures
- » Standard sizes: 6", 8", 10", 12"





Architectural Linear



- » Fully integrating and complementing the ceiling system and other ceiling components
- » All FlowBar linear systems are available curved
- » Allows supply, return and exhaust air all from one diffuser, reducing ceiling clutter
- Slot widths: 1", 11/2", 2", 21/2"



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- » Designed so the ceiling tile material can be field cut and inserted into the face of the diffuser
- » Field adjustable for 1-, 2-, 3-, or 4-way directional air patterns
- » Engineered to handle large capacities of air using a single slot
- » Slot width: 1" / Plenum inlet: 6", 8", 10", 12"







- » Utilizes the HighThrow and/or JetThrow pattern controllers
- » Excellent selection for variable air volume system applications
- » Allows designer to maintain linear appearance with a lay-in diffuser
- » Slot width: 1" / Plenum inlet: 6", 8", 10", 12" / Lengths: 2', 4'



Perforated Ceiling





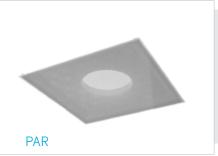
- » A tight, uniform, horizontal blanket of air protects the ceiling against smudging
- Discharge pattern can be adjusted to vertical as well as to one-, two-, three- or four-way horizontal
- » Fire rated option not available on quick ship
- » Standard sizes: 6", 8", 10", 12" / Module size: 12" x 12", 16" x 16", 20" x 20", 24" x 12"

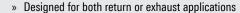












- » Provides matching return for all of Titus' perforated diffusers
- Several border styles to choose from
- » Fire rated option not available on quick ship
- » Standard sizes: 6", 8", 10", 12" / Module size: 12" x 12", 16" x 16", 20" x 20", 24" x 12"



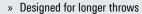
SUPPLY DIFFUSERS











- » Good performance in variable air volume systems
- » Discharge pattern can be adjusted from horizontal to vertical
- » Standard sizes: 6", 8", 10", 12" / Module Sizes: 12" x 12" and 24" x 24"



PCS



- » Generates a high induction air pattern that maximizes throw
- Delivers a horizontal blanket of air that adheres to the ceiling even at varying volumes
- Pressure drop and noise levels are lower than typical curved blade perforated diffusers
- » Standard sizes: 6", 8", 10", 12"



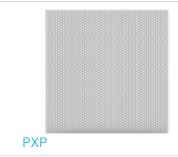


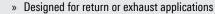


- » Can be adjusted for a one-, two-, three- or four-way discharge pattern after it has been installed
- » Perforated face provides the architectural advantage of blending the diffuser into the ceiling system
- » Offers the performance of the modular core diffuser for variable air volume applications
- » Standard sizes: 6" x 6", 8" x 8", 10" x 10", 12" x 12"









- » Panels match models PAS supply diffusers in appearance after installation
- » Installed by laying between T-bars
- » MRI compatible (PXP-AA)
- » Module sizes: 12" x 12", 16" x 16", 20" x 20", 24" x 12"







- » Delivers supply air in a true 360° pattern without streaking and smudging the ceiling
- » Excellent performance in variable air volume systems
- All sizes have three cones, giving a uniform appearance where different neck sizes are used in the same areas
- » Fire rated option not available on quick ship
- » Standard sizes: 4", 5", 6", 7" / Module sizes: 12" x 12", 20" x 20", 24" x 24"















» Can be adjusted for a one-, two-, three-, or four-way pattern after it has been installed

- » Maintains a horizontal flow pattern from maximum to minimum cfm
- » Excellent choice for variable air volume systems
- » Standard sizes: 6" x 6", 8" x 8", 10" x 10", 12" x 12"

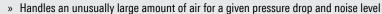
MCD

SUPPLY DIFFUSERS



Square & Rectangular Ceiling





- Pleasing appearance harmonizes with various architectural details especially modular ceiling systems
- » Maintains an unbroken horizontal flow from maximum cfm down to minimum
- » Fire rated option not available on quick ship
- Inlet sizes (Rnd. Neck): 6", 8", 10", 12" / Module sizes (Rnd. Neck): 12" x 12", 24" x 24"









- » High capacity ceiling diffuser
- » Louvered face with integrated induction vanes for exceptional air mixing
- » Extremely flexible, with cores available for one-, two-, three- or four-way horizontal flow
- » Inlet sizes (Rnd. Neck): 6", 8", 10", 12" / Module sizes (Rnd. Neck): 12" x 12", 24" x 24"





- » Louvered face with integrated induction nozzles for exceptional air mixing
- » A high capacity ceiling diffuser that maintains a continuous horizontal flow from maximum cfm down to minimum cfm
- » Extremely flexible with cores available for one-, two-, three- or four-way horizontal flow
- » Inlet sizes (Rnd. Neck): 6", 8", 10", 12" / Module size: 24" x 24"





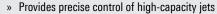


- » Presents a clean, functional, strong appearance, along with high performance
- » Designed for ceiling, high side wall and low side wall installations
- » Louvers are individually adjustable from the face of the diffuser
- » Duct sizes: 1-way, 6" x 4" through 36" x 36" / 2-, 3-, 4-way, 6" x 6" through 36" x 36"



Nozzle





- » For demanding spot cooling and heating HVAC applications, such as industrial or large open areas
- » Deep deflection rings in each nozzle are designed to maintain directional control at high velocities up to 30 degrees in any direction
- » Nozzle sizes: 6", 8", 10", 12" (up to 4 nozzles)



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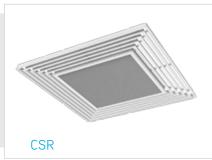


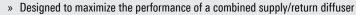


duct mounted

unted ope

Concentric





- » Supply and return air are handled through one air device
- » Ideal for applications requiring a system that provides equal distribution on all four sides while maintaining low noise levels
- » Module sizes: 48" x 24", 48" x 36", 48" x 48", 60" x 60"



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SUPPLY DIFFUSERS



Plenum Slot



- » Ideal for the restricted ceiling spaces in many modern buildings
- Excellent choice for variable air volume operation and has the extra advantage of minimizing smudges on the ceiling
- » Handles a large volume of air at low pressure drop and noise level
- » Fire rated option not available on quick ship
- Slot width: 1", 11/2" / Plenum inlet: 6", 8", 10", 12" / Lengths: 24", 36", 48", 60"









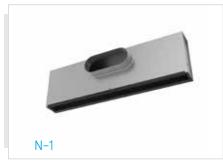


energy solutions



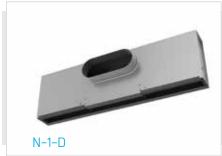
- » Designed to blend with the symmetry of typical ceiling grid systems
- » Handles large volumes of air at low pressure drop and noise level
- Excellent choice for variable air volume operation
- » Plenum inlet: 6", 8", 10" / Lengths: 24", 36", 48", 60"





- » High induction, single-slot diffuser that incorporates a fixed discharge slot design
- » For use in standard lay-in ceilings
- » Excellent for variable air volume systems
- » Plenum inlet: 6", 8", 10" / Lengths: 24", 36", 48", 60"





- » Down blow delivers air in two seperate discharge patterns
- » For use in standard lay-in ceilings
- » Excellent for variable air volume systems
- » Plenum inlet: 6", 8", 10" / Down blow lengths: 8", 12", 15", 18" /
- » Lengths: 24", 36", 48", 60"







- » For cooling and heating applications
- » Utilizes SMA technology
- » Operates on a narrow temperature band (62° F to 82° F)
- » Plenum inlet: 6", 8", 10", 12" / Lengths: 24", 48"





energy solutions

dual-function



» Utilizes energy harvesting technology from solar and ambient room light to power an internal actuator

- » Operates on a narrow temperature band (71° F to 78° F)
- Smart logic programming on internal P.C. board checks supply air temperature in 10 minute intervals
- » Plenum inlet: 6", 8", 10", 12" / Lengths: 24", 48"









light powered

energy solutions

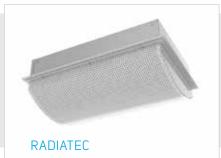
dual-function

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RADIAL PATTERN

Critical Environment

Titus



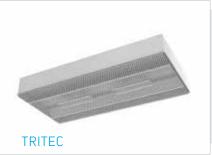
- » Designed to meet the challenge of diluting airborne contaminants by supplying high-volume, low-velocity airflow to displace impurities
- » Applications include labs with exhaust fans, pharmaceutical manufacturing, and biotechnology
- » Airflow pattern is designed to produce a uniform pattern to prevent dead spots where contaminants can linger
- » Inlet sizes: 8", 10", 12" / Module sizes: 24" x 24", 48" x 24"











- » Designed to allow large volumes of air to be brought into the environment with very short throws
- » Applications include labs with exhaust hoods, pharmaceutical manufacturing, telephone switching rooms, and biotechnology research
- » Its unique design allows it to create a full pattern in the middle of the diffuser as well as on the ends
- » Inlet sizes: 8", 10", 12" / Module sizes: 24" x 48", 24" x 24"











- Features adjustable pattern control technology for delivering high volumes of low velocity air in a radial pattern
- Choose between VersaTec with an optional adjustable blade face or VersaTec with a perforated center section
- » Applications include labs with exhaust fans, pharmaceutical manufacturing, and biotechnology research
- » Inlet sizes: 10", 12" / Module sizes: 24" x 24", 48" x 24"









- » Laminar flow diffuser
- » Ideal for installation in hospital operating rooms
- Generates a low velocity, evenly distributed, downward moving "piston" of conditioned air
- » Use with a linear air curtain
- » Inlet sizes: 6", 7", 8", 9" / Module sizes: 24" x 12", 24" x 24", 36" x 12", 36" x 24"

LAMINAR PATTERN









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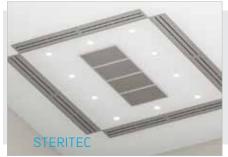




- » Excellent for use as a perimeter air curtain in clean air environments such as operating rooms
- » Provides a curtain of supply air
- » Typically used to surround TLF diffusers in operating rooms to reduce internal contaminates
- » Specify the length, the number of inlets, and the inlet width







» Combines the features of the TLF and the LineaTec to form a clean zone within a cleanroom

- Perforated pressure induction plate facilitates balancing
- Non-contaminate airflow protects the patient, the equipment, and the personnel
- Specify the length, the number of inlets, and the inlet width







- » Fan filter unit for cleanroom environments
- » Low profile design
- » PSC or ECM motor
- » Module sizes: 24" x 24", 48" x 24"





HEPALERT / HEPA FILTER

- » Designed for Titus TLF and RadiaTec diffusers with HEPA filters
- » LED lights illuminate from green to red when the pressure set point for filter replacement has been reached
- » HEPALERT switch activates LED when filter free area becomes fifty percent restricted
- » Nominal filter sizes: 24" x 12", 36" x 12", 48" x 12", 60" x 12"









FAN FILTER DIFFUSERS

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AeroBlade



- » Blades: 3/4" spacing, individually adjustable, parallel to the long or short dimension
- » 271 Single Deflection / 272 Double Deflection
- » Available in steel, aluminum
- Sizes: 6" x 6", 8" x 6", 10" x 6", 8" x 8"







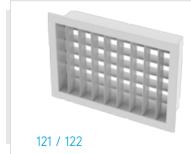


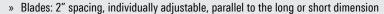
- » Blades: 11/4" spacing, individually adjustable, parallel to the long or short dimension
- » 111 Single Deflection / 112 Double Deflection
- » Available in steel
- » Nominal duct sizes: 6" x 6", 8" x 6", 10" x 6", 8" x 8"











- » 121 Single Deflection / 122 Double Deflection
- » Available in steel
- » Nominal duct sizes: 6" x 6", 8" x 6", 10" x 6", 8" x 8"









- » Blades: 3" spacing, individually adjustable, parallel to the long or short dimension
- » 131 Single Deflection / 132 Double Deflection
- » Available in steel
- » Nominal duct sizes: 6" x 6", 8" x 6", 10" x 6", 8" x 8"











- » Blades: 3/4" spacing, parallel to the long or short dimension
- » 45° fixed deflection
- » Available in steel
- » Nominal duct sizes: 6" x 6", 8" x 6", 10" x 6", 8" x 8"



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- » Blades: 3/4" spacing, parallel to the long or short dimension
- » 45° fixed deflection
- » Available in aluminum
- » Nominal duct sizes: 6" x 6", 8" x 6", 10" x 6", 8" x 8"







MRI compatible

25

- » Blades: 1/2" spacing, parallel to the long or short dimension
- » 30° fixed deflection
- » Available in steel
- » Nominal duct sizes: 6" x 6", 8" x 6", 10" x 6", 8" x 8"







- » Blades: 1/2" spacing, parallel to the long or short dimension
- » 45° fixed deflection
- » Available in aluminum
- » Nominal duct sizes: 6" x 6", 8" x 6", 10" x 6", 8" x 8"









300 / 350



- » Blades: 3/4" spacing, individually adjustable, parallel to the long or short dimension
- » 301 Single Deflection / 300 Double Deflection
- » Available in steel, aluminum, and stainless steel
- » Nominal duct sizes: 6" x 6", 8" x 6", 10" x 6", 8" x 8"

SUPPLY GRILLES

RETURN GRILLES









- » Blades: 3/4" spacing, parallel to the long or short dimension
- » 350 35° fixed deflection / 350ZRL 0° fixed deflection
- » Available in steel, aluminum, and stainless steel
- » Nominal duct sizes: 6" x 6", 8" x 6", 10" x 6", 8" x 8"







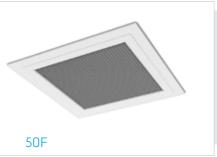
- » Blades: 1/2" spacing, parallel to the long or short dimension
- » 355 35° fixed deflection / 355ZRL 0° fixed deflection
- » Available in steel and aluminum
- » Nominal duct sizes: 6" x 6", 8" x 6", 10" x 6", 8" x 8"







Specialized



- » High free area core, minimized pressure drop
- » Matches general appearance of parabolic lighting fixtures
- » Core sizes: ½" x ½" x ½" x ½" , ½" x ½" x 1", 1" x 1" x 1" aluminum
- Nominal duct sizes: 6" x 6", 8" x 6", 10" x 6", 8" x 8"

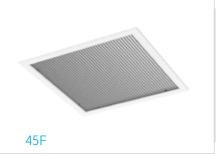
EGGCRATE GRILLES







MRI compatible



- » Sight proof design
- » 45° fixed deflection
- Core sizes: 1/2" x 1/2" x 1/2"
- » Available in aluminum or stainless steel
- » Nominal duct sizes: 10" x 10", 22" x 10", 22" x 22", 46" x 22"







MRI compatible sight proof design



- » 51% free area perforated face
- » Matches general appearance of industry standard perforated diffusers
- » Available in steel, aluminum and stainless steel
- » Nominal duct sizes: 6" x 6", 8" x 6", 10" x 6", 8" x 8"





- » Blades: 33 $\frac{1}{2}$ " spacing 30 $\frac{3}{8}$ ", blades parallel to the long or short dimension
- » 33 38° fixed deflection / 30 0° fixed deflection
- » Available in steel
- » Nominal duct sizes: 6" x 6", 8" x 6", 10" x 6", 8" x 8"

HEAVY DUTY GRILLES









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SPIRAL GRILLES





- » Great for areas with high humidity
- » Heavy duty design stands up to abuse
- » Blades: 1/2" spacing, blades parallel to the long or short dimension
- » 63 30° fixed deflection / 60 0° fixed deflection
- » Nominal duct sizes: 6" x 6", 8" x 6", 10" x 6", 8" x 8"



HEAVY DUTY GRILLES











MRI compatible



- » Blades: 3/4" spacing, individually adjustable, blades parallel to the long or short dimension
- » S301 Single deflection / S300 Double deflection
- » Radius endcaps match duct to avoid installation cost of duct taps
- » Nominal duct sizes: 10" x 3", 12" x 3", 10" x 4", 12" x 4" / Heights: 3", 4", 6", 8"





quick ship

duct mounted



- » Has 3/16" perforated holes on 1/4" staggered centers
- » Radius endcaps match duct to avoid installation cost of duct taps
- » Available with universal endcaps
- » Heights: 3", 4", 6", 8"







- » Sight proof
- » Used in doors and partitions
- V-blades block vision and provide extra strength
- » T-700: Steel / CT-700: Aluminum
- » Nominal duct sizes: 6" x 6", 8" x 6", 10" x 6", 8" x 8"

DOOR RETURN GRILLES











- » Remove, invert, or reverse the core for four different vertical deflections
- Offers a look of refinement backed with strength, versatility and superb performance
- » Core is easily removed with one pull on the detachable operating lever
- » Nominal duct sizes: 8" x 4", 7" x 5", 6" x 6", 12" x 4"



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» Individually adjustable extruded aluminum front blades, 3/4" centers, parallel to the long or short dimension

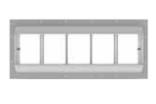
- » Steel rear blades gang operated
- » Pole operator handle for adjusting rear blades
- Nominal duct sizes: 7" x 4", 6" x 5", 8" x 4", 7" x 5"







metric sizes



» Designed to handle large air capacity requirement and long throws

- » Felt seal between the drum and border to stop leakage and hold the drum securely in the position selected
- » Can be operated at high discharge velocities
- » Available with / without split vanes
- » Sizes: 9"x 6", 12"x 6", 18"x 6, 24"x 6"

DL / US-DL

















» Designed to handle large air capacity requirement and long throws

- Felt seal between the drum and border to stop leakage and hold the drum securely in the position selected
- » Can be operated at high discharge velocities
- Available with / without split vanes
- » Sizes: 9"x 6", 12"x 6", 18"x 6, 24"x 6"

S-DL









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GRD Accessories



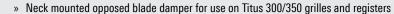
- » Duct mounted sliding blade damper used in round duct applications
- » Gang operated radial blades
- Blades slide at right angles to the duct, allowing the damper to work effectively in flexible duct applications
- » Sizes: 6", 8", 10", 12"











- » Gang opposed blades meter air volume with minimum disturbance
- » Mounts using spring steel S-clips
- » Sizes: Up to 24" x 18"









» Can be specified for either factory or field installation on grille

- » Gang opposed blades meter air volume with minimum disturbance
- Slot-Face Operator (Type 1) is for supply grilles and Lever Operator (Type 8) is for return grilles
- » Sizes: 6" x 3" to 48" x 48"









- » Duct mounted damper with grid used in round duct applications
- » Performs as a tuming vane, damper and equalizing grid
- Field installs at the transition between the primary rectangular duct and the round duct take off
- » Sizes: 4", 5", 6", 7"







- » Duct mounted equalizing grid used in round duct applications
- » Vanes give maximum control of airflow with minimum noise and turbulence
- Individually adjustable vanes with friction pivots to hold the desired settings and provide rattle free performance
- » Sizes: 4", 5", 6", 7"



- » Duct mounted volume extractors with 1" blade spacings
- Can adjust both air volume and flow in duct systems around problem areas such as elbows, tees and take offs
- » Can adjust the contour of airflow to fill the duct, thus reducing noise and pressure drop
- » Duct Sizes: 6" x 4" to 36" x 12"



AG-45





- » Duct mounted turning vanes used in square and rectangular duct applications
- » Deflects air in a curved path with minimum pressure drop
- » Can be adjusted to provide uniform air distribution in take off duct
- » Sizes: 6" x 4" to 36" x 36"









- » For special applications, where it is necessary to baffle one or more quadrants of the diffuser inlet to achieve a desired air pattern
- » Used to block a 90° section within a round neck
- » Baffles help prevent maximum airflow in the direction where it is installed
- » Inlet sizes: 6", 8", 10", 12"

MOUNTING FRAMES

DUCT ACCESSORIES

27





- » Rapid mount frame allows quick installation of lay-in type diffusers in hard ceilings
- » Installed in opening and secured in place using security clips
- » Rapid mount frame can be mounted in plaster or sheet rock ceiling
- » Ceiling module: 12" x 12", 16" x 16", 20" x 20", 24" x 12"





mounting frames

quick ship



- » Manufactured of roll-formed material
- » Can be installed on the surface of the wall or embedded in the plaster
- » Manufactured for use with 300/350, 50F, 50R, 8R and 8F series of grilles and registers
- » Sizes: 6" x 6" to 48" x 48"





nounting frames

mounting frames



FLEXABOOT

- » An acoustical return sound boot
- » Designed for ceiling plenum return air applications
- » Eliminates sound transfer in open plenum ceiling
- » Sizes: 10" diameter and 16" diameter





duct accessories



- » Designed to form flexible duct into highly efficient 90° elbows
- » Improves airflow and saves energy by eliminating kinks and restrictions $% \left(1\right) =\left(1\right) \left(1\right)$
- » Great for retrofit applications or new building construction
- » Universal design fits flexible sizes: 4" 16"









Security Products



- » Designed to deter suicide attempts
- The design of the grille minimizes the hole openings in the face of the grille while still providing airflow and without compromising security and safety
- » Complies with NIC Guidelines for Suicide Prevention and California Title 24
- » Dimensions: Widths 6" to 30", heights 4" to 30" / Sleeve lengths: 6", 8", 10", 12"



- » The design of the grille allows a greater effective free area and airflow without compromising security and safety
- » Face place is ³/₁₆" steel with ⁵/₁₆" diameter holes on ⁷/₁₆" staggered centers and 1"border
- SG-PRA is used in areas where moisture may cause a problem with standard steel grilles
- Dimensions: Widths 6" to 30", heights 4" to 30" / Sleeve lengths: 6" to 18" in 1" increments



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suicide deterrent prevents corrosion



humid areas







maximum security quick ship



- » SG-PS is the industry standard used in areas of maximum security and/or minimum supervision where absolute grille integrity must be maintained
- Effectively prevents the concealment of dangerous or potentially lethal objects or any other contraband of concern to authorities
- » Steel, square perforated
- » Dimensions: Widths 6" to 30", heights 4" to 30" / Sleeve lengths: 6", 8", 10", 12", or 18"

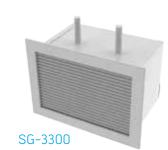












- » A medium security grille for sidewall applications
- » Effectively prevents the concealment of dangerous or potentially lethal objects or other contraband
- Heavy guage steel louvers welded to a steel sleeve that extends through the wall makes this an exceptionally strong bar type grille
- » Dimensions: Widths 6" to 30", heights 4" to 30" / Sleeve lengths: 6", 8", 10", 12", or 18"











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MINIMUM SECURITY





- » A minimum security grille ideal for shower areas
- The rust proof construction makes the SG-1500 an excellent choice for exposure to constant humidity or frequent hosing down
- » All aluminum security grille
- » Dimensions: Widths 6" to 30", heights 4" to 30" / Sleeve lengths: 6", 8", 10", 12"











monitoring areas minimum security



» Used in areas of constant supervision or lobbies or entryways

- Contains Titus model TDC border 1 (surface mount) with 1, 2, 3, or 4 way blow pattern
- Designed where minimum security is still necessary and maximum performance is required
- Standard sizes: 6" to 24" (3" increments)





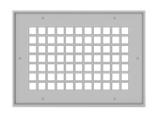






monitoring areas minimum security

metric sizes



SG-LF0

- » Can be used in any area where additional security is required
- » Lattice face with plaster frame available
- » Available in stainless steel for corrosive environments
- » Dimensions: Widths 6" to 30", heights 4" to 30" (2" increments)













» A framed barrier grille typically provided in wall openings between secure and nonsecure areas

- » Available with sleeve
- All junction points welded
- » Dimensions: Widths 6" to 30", heights 4" to 30" (2" increments)









Displacement Ventilation



- » Curved face for wall mount applications
- » Designed to supply a large volume of air at low velocity to the occupied zone
- » Includes integral variable air pattern controllers for easy adjustment of the airflow spread pattern
- » Inlet Sizes: 8", 10", 12", 16" / Unit Sizes: 36" x 37", 36" x 60", 36" x 79"









- » 1-way discharge designed for flush mount applications
- » Designed to supply small to medium volumes of air at low velocity to the occupied zone
- Includes integral variable air pattern controllers for easy adjustment of the airflow spread pattern
- » Inlet Sizes: 8", 12", 14", 16" / Unit Sizes: 12" x 10", 12" x 12", 16" x 10", 16" x 12"







- » Can be positioned against the wall in a flush or surface mount orientation
- » Designed to supply a large volume of air at low velocity to the occupied zone
- » Includes integral variable air pattern controllers for easy adjustment of the airflow spread pattern
- » Inlet Sizes: 8", 10", 12", 16" / Unit Sizes: 24" x 24", 24" x 47", 24" x 48", 24" x 79"





DVRI

DVR3

- » 3-way air discharge pattern for wall or surface mount applications
- » Designed to supply a large volume of air at low velocity to the occupied zone
- Includes integral variable air pattern controllers for easy adjustment of the airflow spread pattern
- » Inlet Sizes: 8", 10", 12", 22" / Unit Sizes: 24" x 24", 24" x 48", 24" x 60", 36" x 48"





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SEMI-CIRCULAR





- » 1-way discharge designed for flush mount applications in the risers of steps or stairs
- » Designed to supply a large volume of air at low velocity to the occupied zone
- Includes integral variable air pattern controllers for easy adjustment of the airflow spread pattern
- » Unit Sizes: 6" x 18", 12" x 12", 18" x 6", 18" x 8"









- » 180° air discharge pattern for wall or surface mount applications
- » Designed to supply a large volume of air at low velocity to the occupied zone
- Includes integral variable air pattern controllers for easy adjustment of the airflow spread pattern
- » Inlet Sizes: 6", 8", 10",12" / Unit Sizes: 18" x 24", 24" x 24", 24" x 36", 24" x 48"









» 180° air discharge pattern for wall or surface mount applications

- » Designed to supply a large volume of air at low velocity to the occupied zone
- » Includes integral variable air pattern controllers for easy adjustment of the airflow spread pattern
- » Inlet Sizes: 5", 6", 8", 10" / Unit sizes: 10" x 25", 11" x 25", 13" x 37", 15" x 37"









- » Flat face displacement diffuser with 90° air discharge pattern for corner mount applications
- » Designed to supply a large volume of air at low velocity to the occupied zone
- Includes integral variable air pattern controllers for easy adjustment of the airflow spread pattern
- » Inlet Sizes: 8", 10", 12" / Unit Sizes: 24" x 24", 24" x 36", 24" x 48", 24" x 60"



CORNER MOUNT









- » Curved face displacement diffuser with 90° air discharge pattern for corner mount applications
- » Designed to supply a large volume of air at low velocity to the occupied zone
- Includes integral variable air pattern controllers for easy adjustment of the airflow spread pattern
- » Inlet Sizes: 5", 6", 8", 10" / Unit Sizes: 10" x 25", 11" x 25", 13" x 37", 15" x 37"

CORNER MOUNT



DVVC





» 360° air discharge pattern for floor installations

- » Designed to supply a large volume of air at low velocity to the occupied zone
- Includes integral variable air pattern controllers for easy adjustment of the airflow spread pattern
- » Inlet Sizes: 5", 6", 8", 10" / Unit Sizes: 11" x 24", 12" x 24", 14" x 36", 16" x 36"





DVCP

energy solutions











DVRI-HCS - SOLAR PLEXICON

- » Can be positioned against a wall in flush or surface mount applications
- » Combines displacement principles and mixed airflow principles in a single device for optimum comfort
- » Heating / cooling unit that provides heating for displacement ventilation applications
- » Inlet Sizes: 14", 32" / Unit Sizes: 36" x 79", 47" x 79"

- » Can be positioned against a wall in flush or surface mount applications
- » Features energy harvesting technology from solar and ambient room light to power actuators
- » Combines displacement principles and mixed airflow principles in a single device for optimum comfort
- » Heating / cooling unit that provides heating for displacement ventilation applications
- » Inlet Sizes: 14" round, 24" x 8" rectangular
- » Unit Sizes: 36" x 79" round, 47" x 79" rectangular













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Chilled Beams



- » 1-way and 2-way air patterns
- » Multiple nozzles providing low sound levels
- » 2-pipe or 4-pipe for heating and cooling
- » Beam widths: 12" / Nominal lengths: 2 to 10 ft. with 1 ft. increments









- » 1-way and 2-way air patterns
- » Multiple nozzles providing low sound levels
- » 2-pipe or 4-pipe for heating and cooling
- » Beam widths: 24" / Nominal lengths: 2 to 10 ft. with 1 ft. increments



energy solutions



- » Linear sidewall active chilled beam diffuser with horizontal air distribution
- » Multiple nozzles providing low sound levels
- » Designed to be recessed into a sidewall, soffit, or bulkhead
- » Nominal lengths: 3 to 10 ft. with 1 ft. increments





- » Design accommodates both recessed and exposed mounting
- » Used for cooling only
- » Available as diffuser shell (no coil/piping)
- » Beam widths: 12", 17" / Nominal lengths: 4 to 14 ft.



SPB





- » Simultaneous heating and cooling
- » Low noise levels, conforms to ANSI Standard S12.60
- » Designed to fit below windowsills
- » Multiple 5 or 6 ft. units can be connected in series











» Single circuit for each sail as ordered; hard copper connection between individual blades

- » 15mm diameter pipe connections
- » Available with hinged mounting equipment allowing sails to swing down to 45°
- » Nominal lengths: 2', 4', 6', 8' / Blade widths: 51/4", 7"

ALPETY (FKL / HKL)





- » Operational perforated face pattern includes acoustical fleece to enhance room sound absorption
- » Single water circuit per panel
- » 15mm diameter pipe connections
- » Nominal lengths: 2', 4', 6', 8'



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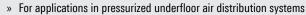
ROUND PRODUCTS

TAF-L PERIMETER SYSTEM



UnderFloor Air Distribution (UFAD)





» Constructed of a high impact polymeric material designed to resist damage from traffic

» Constructed of a high impact polymeric material designed to resist damage from traffic

- » Relocation to another zone is simply done through relocating the floor panel
- The trim ring's extra wide flange is designed to prevent carpet from pulling away from the diffuser

» It allows "through-the-floor" power/data/phone cable access

zone is simply done through relocating the floor panel The trim ring's extra wide flange is designed to prevent

carpet from pulling away from the diffuser

With the grommet installed in the floor panel, relocation to another

- » Fire rated option not available on quick ship
- Dimensions: 8"







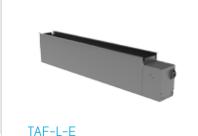


energy solutions



TAF-G







- - TAF-L-R

- » Designed to be integrated with the CT-TAF-L linear bar grille
- Drops into perimeter slot and sits on top of the raised floor tile (by others) and a perimeter angle
- » Has an SCR electric heat fin tube assembly in the plenum
- » ETL listed at 120V, 208V, 240V, 277V at 1.1 kw maximum output
- » Unit Size: 48" length

Dimensions: 8"

- » A fixed linear bar diffuser plenum for underfloor perimeter return applications
- » Designed to be integrated with the CT-TAF-L linear bar grille
- Drops into perimeter slot and sits on top of the raised floor tile (by others) and a perimeter angle
- » 20"x 8" inlet can be used for ducted or non-ducted applications
- » Unit Size: 48" length







- » A variable linear bar diffuser plenum for underfloor perimeter supply applications
- » Designed to be integrated with the CT-TAF-L linear bar grille
- » Designed to provide a uniform throw pattern throughout its operating range
- » 24 volt electric damper actuator is supplied with the assembly
- Unit Size: 48" length





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- » A fixed linear bar diffuser plenum for underfloor perimeter heating applications
- » Designed to be integrated with the CT-TAF-L linear bar grille
- Drops into perimeter slot and sits on top of the raised floor tile (by others) and a perimeter angle
- » Has a fin tube assembly in the plenum
- » Unit Size: 48" length



energy solutions



- » Designed to be integrated with the TAF-L-V, TAF-L-E, TAF-L-R, and TAF-L-W plenums
- » CT-TAF-L core drops into frame which drops into perimeter slot and sits on top of carpeting
- » Installs into the TAF-L plenums from the top surface, removal of the flooring is not required
- » Sections can be joined end-to-end for continuous appearance using alignment clips
- Dimensions: Order continuous length; 6" width











TAF-D

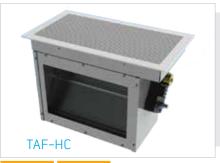
- » Designed for floor applications and utilized for ducted applications
- » Heavy guage steel plenum
- » Installs into access flooring from top surface
- » CT-TAF diffuser and TAF-D are sold as seperate units
- » Inlet Size: 8" / Unit Size: 8" x 16"

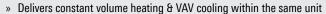




LINEAR PRODUCTS





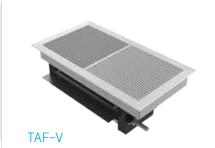


- Can be ducted for heating & provides variable air volume cooling control
- Diffuser core available in single or multi-piece configuration
- » Installs into access flooring from top surface, removal of flooring is not required
- Inlet Sizes: 8" / Unit Sizes: 8" x 16"





energy solutions



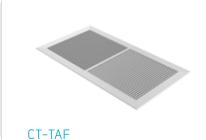
» Designed for areas with frequent changes in heating loads

- » Provides variable air volume cooling only control for non-ducted applications
- Tight close-off damper with optional 24 VAC electric actuator
- » Available with single or multiple diffuser cores
- » Inlet Sizes: 8" / Unit Sizes: 8" x 16"





energy solutions



» Fixed linear bar diffuser for underfloor applications

- » Designed to be integrated with the TAF-HC, TAF-V, and TAF-D plenums
- » Drops into plenum opening and sits on top of carpeting
- » Diffuser cores are available in single, dual, & quad core configurations









» Dual density insulation, coated to prevent erosion meets requirements of NFPA 90A and UL 181

- » Energy efficient fan motor, permanent split capacitor type, mounted in variation isolators
- Pressure independent primary airflow control
- » Adjustable SCR fan speed control, with minimum voltage stop
- » Inlet Sizes: 9", 10" / Unit Sizes: 3, 4





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FAN POWERED





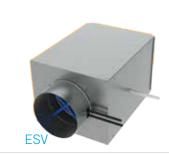
- » Energy efficient fan motor, permanent split capacitor type, mounted in variation isolators
- » Adjustable SCR fan speed control, with minimum voltage stop
- » Single point electrical connections
- » Ultra-high efficiency ECM motor available
- » Unit Sizes: 10, 14, 16







Terminal Units



- » Assured of accurate, AHRI Certified Performance ratings
- » Compact size and easy access for service saves time and expense in installation
- » Rectangular discharge opening is designed for slip and drive cleat duct connection
- » Inlet sizes: 4", 5", 6", 7"





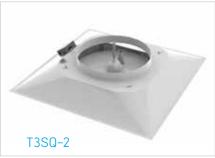
quick ship



- » Used when hot and cold supply air is needed for accurate temperature control with minimum flow requirements
- » Ideal vehicle for alternative ventilation strategies and humidity control
- » Total filteration of all air delivered to the zone is possible
- » Inlet sizes: 4", 5", 6", 7"







- » Brings both accuracy and flexibility to the variable air volume market
- » Combines the functions of a VAV terminal and a high performance diffuser in one
- » Modulates the air volume delivered to a zone to accurately control cooling and heating conditions
- » Neck sizes: 6", 8", 10", 12"







eneray salutions

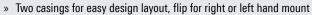
quick ship

SERIES FAN POWERED

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- » Energy-efficient fan motor, permanent split capacitor type, mounted with vibration isolators
- » Adjustable fan speed control
- » Available with standard PSC or high efficiency ECM motor
- » Inlet sizes: 6", 8", 10", 12"



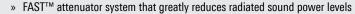






energy solutions





- » Integral external & internal sound attentuator for ultra low sound
- Adjustable fan speed control
- » Available with standard PSC or high efficiency ECM motor
- » Inlet sizes: 6", 8", 10", 12"











open ceiling



» Built-in sound baffle for low sound levels, both radiated and discharge

- » Adjustable fan speed control
- » Available with standard PSC or high efficiency ECM motor
- » Inlet sizes: 6", 8", 10", 12" / Unit sizes: 2, 3, 4, 5











» Fan powered induction unit with sensible cooling coil & drain pan

- » Used with DOAS applications
- » Designed for low profile applications
- » Built-in sound baffle for low sound levels, both radiated and discharge
- » Adjustable fan speed control
- » Available with standard PSC or high efficiency ECM motor
- » Inlet sizes: 6", 8", 10", 12" / Unit sizes: 2, 3, 4, 5





LOW PROFILE SERIES





LOW PROFILE SERIES





- » Useful where building height limits dictate shallow ceiling plenums
- » Energy efficient fan motor, permanent split capacitor type, mounted in vibration isolators
- » Adjustable fan speed control
- » Inlet sizes: 8" dia., and 16" x 8" / Unit sizes: 2, 3, 4



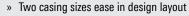






energy solutions





» Energy efficient fan motor, permanent split capacitor type, mounted in vibration isolators

» Energy efficient fan motor, permanent split capacitor type, mounted in vibration isolators

» Adjustable fan speed control

» Adjustable fan speed control

» Inlet sizes: 6", 8", 10", 12" / Unit sizes: 2, 3, 4, 5





CERTIFIED®





energy solutions







- » An air measuring station designed for use in round ducts
- Converts older constant volume systems into modern energy efficient variable air volume systems

» Inlet sizes: 6", 8" dia., and 14" x 8" / Unit sizes: 2, 4

» Flow measurement taps included for easy balancing connections

» Useful where building height limits dictate shallow ceiling plenums

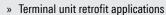
» Inlet sizes: 4", 5", 6", 7"











- Converts older constant volume systems into modern energy efficient variable air volume systems
- » Flow measurement taps included for easy balancing connections
- Simple and easy installation
- » Inlet sizes: 4", 5", 6", 7"







energy solutions



» Terminal unit retrofit applications

- Converts older constant volume systems into modern energy efficient variable air volume systems
- Flow measurement taps included for easy balancing connections
- Variety of control options available
- » Inlet sizes: 4", 5", 6", 7"









energy solutions

retrofit



» Terminal unit retrofit applications

- Converts older constant volume systems into modern energy efficient variable air volume systems
- » The casing can be configured to mount on either the right or left side of the existing duct
- » Variety of velocity control options available







- » Terminal unit retrofit applications
- » Designed to retrofit Anemostat Terminals
- Can be adjusted for a minimum cfm setting of zero (full shutoff)
- » Available with electric actuators for use with electronic or DDC retrofit controls
- » Inlet size: specify W x H





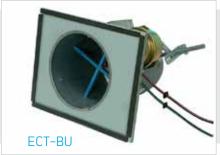
Terminal Unit products continued →





- » Terminal unit retrofit applications
- » Designed to retrofit Barber-Coleman Terminals
- Performance after is similar to Titus ESV for single duct operation & Titus EDV for dual duct operation
- » Minimum airflow can be adjusted for full shutoff
- » Inlet size: specify W x H

energy solutions



- » Terminal unit retrofit applications
- » Designed to retrofit Buensod Terminals
- Can be adjusted for a minimum cfm setting of zero (full shutoff)
- » Available with electric actuators for use with electronic or DDC retrofit controls
- » Inlet size: specify W x H





energy solutions

retrofit



- » Terminal unit retrofit applications
- » Designed to retrofit Connor Terminals
- » Can be adjusted for a minimum cfm setting of zero (full shutoff)
- » Available with electric actuators for use with electronic or DDC retrofit controls
- Inlet size: specify W x H







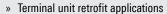
- » Terminal unit retrofit applications
- » Designed to retrofit Titus Terminals
- » High capacity valve can control up to 800 cfm
- » Available with electric actuators for use with electronic or DDC retrofit controls
- » Inlet size: specify W x H











- **Designed to retrofit Krueger Terminals**
- Can be adjusted for a minimum cfm setting of zero (full shutoff)
- » Available with electric actuators for use with electronic or DDC retrofit controls
- Inlet size: specify W x H





energy solutions

retrofit



- » Terminal unit retrofit applications
- » Designed to retrofit Tuttle & Bailey Terminals
- Minimum airflow can be adjusted for full shutoff
- » Available with electric actuators for use with electronic or DDC retrofit controls
- » Inlet size: specify W x H





energy solutions

retrofit



- » Terminal unit retrofit applications
- Pneumatic control kit
- » Pressure independent operation
- Controller can be set to operate with either a direct acting or a reverse acting thermostat
- » Inlet size: specify W x H







- » Terminal unit retrofit applications
- » Limits static pressure in duct systems feeding VAV devices
- » Bypass or discharge pressure control
- » Flow ranges to 4,000 cfm
- » Inlet sizes: 8", 10", 12", 14"









- » Terminal unit retrofit applications
- Limits static pressure in duct systems feeding VAV devices
- Bypass or discharge pressure control
- » Flow ranges to 15,000 cfm
- Unit sizes: Ranges from 5" x 5" to 52" x 26"







energy solutions



- » Terminal unit retrofit applications
- An accurate and convenient means of measuring airflow, as well as balancing the system
- Can be fitted with water reheat coils
- The measuring device provides accurate readings at extremely low pressure drops
- » Inlet size: 4", 5", 6", 7"





quick ship



- » Alpha controller is flexible & can be used in both standalone and network applications
- » Easier to commission through a thermostat and does not require software at the jobsite
- » Integrates universally with all BACnet manufactures' protocols
- Extremely reliable one-piece design enjoys the advantage of an integrated controller, sensor, actuator, & communication



Thermostat





- » Allows the mounting of digital controls on Titus terminals with the assurance of a quality finished product built in a controlled environment
- » Guarantees professional, quality installation of digital control products
- Wiring diagrams and installation methods have been reviewed and approved by control manufacturers for hundreds of standard applications
- Multiple knockouts in sizes from 7/16" to 1 1/8" to accomodate almost any field connection requirement





- » Brings both accuracy and flexibility to the variable air volume market
- » Combines the functions of a VAV terminal and a high performance diffuser in one
- » Modulates the air volume delivered to a zone to accurately control cooling and heating conditions



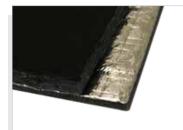


- » Pneumatic terminal unit controller
- » The ideal choice for new construction, retrofit applications, or replacement
- » Accurate control over a duct velocity range of 0 to 3000 fpm
- » Operates at low system pressures
- » Thermostat switch changes the action from direct acting to reverse acting without additional calibration



- » Available on Titus single duct and fan powered terminals
- » Design minimizes stratification and hot spots that can cause nuisance tripping of the thermal cutouts
- » Dust tight construction
- » Each complete terminal with electrical coil installed, is ETL listed and has been tested in accordance with UL statndards





ECOSHIELD



INSULATION CHARACTERISTICS

- » Material: Natural Fiber Duct Liner
- » Thickness: 1/2", 1"
- » R-Value: Differentiate based off of type of material and thickness
- » Density: 3.0 lbs/ft³
- » Flame Spread: less than 25
- » Smoke Density: less than 50
- » Mold Growth: None

LINER





INSULATION CHARACTERISTICS

- » Material: Dual Density Fiberglass
- » Thickness: 1/2", 1"
- » R-Value: Differentiate based off of type of material and thickness
- » Density: 1.5 lbs/ft3 with 4.0 lbs/ft3 face
- » Flame Spread: less than 25
- » Smoke Density: less than 50
- » Mold Growth: None



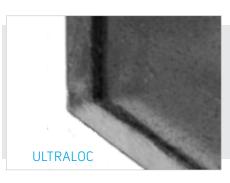
INSULATION CHARACTERISTICS

- » Material: EPFI (Engineered Polymer Foam Insulation)
- » Thickness: ½", 1"
- » R-Value: Differentiate based off of type of material and thickness
- » Density: 1.5 lbs/ft³
- » Flame Spread: less than 25
- » Smoke Density: less than 50
- » Mold Growth: None



INSULATION CHARACTERISTICS

- » Material: Foil Faced Duct Board Insulation
- » Thickness: 13/16"
- » R-Value: 3.5 ft² °F h/Btu @ 75° F
- » Density: 4.0 lbs/ft³



INSULATION CHARACTERISTICS

- » Material: Solid Metal Liner over Fiberglass
- » Thickness: 1" Fiberglass in 3/4" Deep Metal Pan
- » R-Value: Fiberglass 3.9 ft² °F h/Btu @75° F
- » Density: Fiberglass 1.5 lbs/ft³
- » Flame Spread: 25
- » Smoke Density: 50
- » Mold Growth: None

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Fan Coils



- » Designed for free-blow or ducted, concealed installations, suitable for hotel, motel and apartment building applications
- » Automatic 2-pipe changeover switch for heating and cooling applications
- » 300 1200 cfm nominal airflows
- » 0 0.3" external static pressure; 0 0.5" high static option

















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hotels / motels



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Fan Coil products continued \rightarrow





- » Designed for concealed installations above ceilings with ducted air discharge and suitable for projects such as hotels, motels, condominiums and general commercial application
- » High-efficiency 2-row coil suitable for a 2-pipe system
- » 200 1200 cfm nominal airflows
- » 0 0.3" external static pressure













- » Designed for exposed ceiling installations free blowing into the space suitable and for projects such as hotels, motels, condominiums and general commercial application
- » High-efficiency 2-row coil suitable for a 2-pipe system
- 200 1200 cfm nominal airflows
- 0 0.3" external static pressure











hotels / motels



- » Designed for concealed installations above ceilings with ducted return and discharge air and are suitable for projects such as hotels, motels, condominiums and general commercial application
- » High-efficiency 2-row coil suitable for a 2-pipe system
- » 200 1200 cfm nominal airflows
- » 0 0.3" external static pressure

















- » Designed for over ceilings installations with ducted discharge air and suitable for projects such as hotels, motels, condominiums and general commercial application
- » High-efficiency 2-row coil suitable for a 2-pipe system
- 200 1200 cfm nominal airflows
- » 0 0.3" external static pressure









VERTICAL BASIC





- » Designed for exposed floor standing applications such as public buildings, hotels, schools, hospitals, and general commercial applications.
- » High efficiency 2-row coil suitable for a 2-pipe system
- » 200 1200 cfm nominal airflows
- » 0 0.3" external static pressure

















- » Designed for concealed installations inside a closet or furred-in under a window and ducted, for projects such as public buildings, hotels, schools, hospitals, and general commercial applications
- » High efficiency 2-row coil suitable for a 2-pipe system
- » 200 1200 cfm nominal airflows
- 0 0.3" external static pressure













k-12 education

hotels / motels



- » Designed for exposed floor standing applications such as public buildings, hotels, schools, hospitals, and general commercial applications
- » High efficiency 2-row coil suitable for a 2-pipe system
- » 200 1200 cfm nominal airflows
- » 0 0.3" external static pressure

















- » Ideal for exposed applications in public buildings, hotels, schools, hospitals, and general commercial applications where the unit height is restricted
- » High efficiency 2-row coil suitable for a 2-pipe system
- 200 600 cfm nominal airflows
- » 0 0.3" external static pressure





VBL







Fan Coil products continued \rightarrow

HORIZONTAL HIGH OUTPUT

» Designed for concealed installations inside a closet or furred-in under a window installations for applications in public buildings, hotels, schools, hospitals, and general commercial applications where the unit height is restricted.

- » High efficiency 2-row coil suitable for a 2-pipe system
- 200 600 cfm nominal airflows
- » 0 0.3" external static pressure







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Titus









- » Designed for concealed installations above ceilings with ducted air discharge and suitable for projects such as hotels, motels, condominiums and general commercial applications
- » High efficiency 3-row coil suitable for a 2-pipe system
- 600 2000 cfm nominal airflows
- 0 0.5" external static pressure











hotels / motels



- » Designed for exposed ceiling installations free blowing into the space and suitable for industrial and commercial applications
- » High efficiency 3-row coil suitable for a 2-pipe system
- 600 2000 cfm nominal airflows
- » 0 0.5" external static pressure









- » Designed for concealed installations above ceilings with ducted return and discharge air and suitable for projects such as hotels, motels, condominiums and general commercial applications
- » High efficiency 3-row coil suitable for a 2-pipe system
- 600 2000 cfm nominal airflows
- » 0 0.5" external static pressure











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VERTICAL HIGH OUTPUT

ACCESSORIES





- » Designed for ducted closet installations and suitable for industrial and commercial applications
- » High efficiency 3-row coil suitable for a 2-pipe system
- 600 2000 cfm nominal airflows
- » 0 0.5" external static pressure









- » Replacement ECMs for all Titus terminal units
- » Has the ability to modulate the airflow to meet partial load requirements
- Reduces the energy requirements of a building
- » Low operating temperature
- » Requires very little energy to offset the heat gain from the motor to the cooled airstream





energy solutions



- » Modulated valve actuator control device
- » Increases chiller and boiler efficiency by 15-20% with substantial energy savings by meeting exact conditioned space load requirements
- » Increases occupant comfort in the conditioned space
- » Reduces system energy costs









- » Programmable thermostat
- » Allows the fan coil unit to be programmed to run only at specific times of the day at specific temperatures
- » Programming for shutdown during unoccupied time reduces energy cost
- » Occupant can temporarily override the program





HORIZONTAL BELT DRIVE

VERTICAL BELT DRIVE





k-12 education









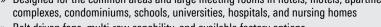


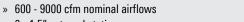




» Designed for the common areas and large meeting rooms in hotels, motels, apartment complexes, condominiums, schools, universities, hospitals, and nursing homes

- » Belt driven fans, multi-row capability, and available factory options
- 0 1.5" external static pressure









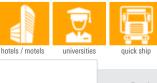
Titus

Air Handlers

HAB



- Belt driven fans, multi-row capability, and available factory options
- 600 8000 cfm nominal airflows
- 0 1.5" external static pressure





- 600 8000 cfm nominal airflows
- » 0 1.5" external static pressure



» Designed for the common areas and large meeting rooms in hotels, motels, apartment complexes, condominiums, schools, universities, hospitals, and nursing homes

- » Belt driven fans, multi-row capability, and available factory options
- 600 5000 cfm nominal airflows
- » 0 1.5" external static pressure











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Application Icons Key



prevents line of sight through the grille





for use in doors and partitions

doors / partitions



for use in factories, warehouses, shopping malls and other large open spaces where long throws are required

factories



used in airport terminals and other large open space: where long throws are required

airport terminals



especially suited to work in areas where high humidity may become a factor

humid areas



for use in hospital operating rooms to protect the patient from contaminated air

surgical



designed for use in cleanroom applications to remove contaminants

cleanrooms



contact Titus for details on quick ship availability

quick ship



designed to make installation of grilles, diffusers and other ceiling components simple in plaster and sheet rock ceilings.

mounting frames



designed for special applications, where it is necessary to baffle one or more quadrants of the diffuser inlet to achieve a desired air pattern

baffle



mounts directly to ductwor

duct mounted



contributes toward energy savings by reducing operating costs of air distribution devices

energy solutions



for use in MRI environments & will not significantly affect the diagnostic information

MRI compatible



for use in gymnasiums, arenas and other large open spaces where long throws are required

gymnasiums



for use in areas where rugged construction is required

rugged areas



great for areas where the conditioned space is large and the ductwork is unable to be brought closer to the occupants

open areas



for use in laboratory environments with exhaust hoods, pharmaceutical manufacturing and other biotechnological facilities

research labs



for use in vital areas within hospitals & patient rooms to remove contaminants from the air

hospitals



designed for quick access, adjustment and are engineered for the least possible noise, turbulence and air resistence

air balancing



for use in new construction or retrofit applications as a unique and inexpensive alternative to remedy the hard duct transitions

duct accessories



can be used in open ceiling environment

open ceiling



for use in all applications that require UL Fire Resistance products

fire rated





additional finish options available for HVAC products that resemble realistic woodgrains, and adds high-end detail quality to any application

woodgrains



energy-harvesting $\boldsymbol{\vartheta}$ savings feature of an HVAC device powered by ambient light

light powered



supplies both heating & cooling from one HVAC device

dual-function



unit contains smart logic mechanism enabling it to adjust the temperature band between heating & cooling

smart logic



long periods without supervision & several opportunities to come into direct contact with the security product

maximum security



intermittent periods without direct supervision & many opportunities to come into direct contact with the security product

medium security



mostly supervised & few opportunities to come into direct contact with the security product

minimum security



maintains security in wall openings between secure and non-secure areas

secure



for use in areas where supervision is required

monitoring areas



for use in corrosive environment applications

prevents corrosion



designed to prevent the occurence of suicide attempts

suicide deterrent



for use in areas to prevent the concealment of harmful or dangerous objects, contraband and any other inappropriate devices from authorities

lethal objects



excellent air distribution device for schools and other educational facilities

k-12 education



for use in colleges & university buildings

universities



for usage in condos and other industrial or commercial building applications

condos



great for apartments or other similar applications

apartments



excellent air distribution device for hotels, motels or any similar commercial building application

hotels / motels



suitable for foyers, waiting rooms and other areas with recessed lighting fixtures

recessed lighting



for use in retrofitting older products into modern designs $\boldsymbol{\vartheta}$ systems

retrofit



Diffuser module sizes are hard metric ϑ inlets are soft. Metric linear and grille products are converted to the nearest \mathcal{V}'' for ordering. Contact us for more information.

metric sizes

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Google Plus - https://plus.google.com/+titushvac/posts#+titushvac/posts

YouTube - http://www.youtube.com/user/TitusHVAC/feed



Woodgrain Finish Options

The Elegance of Wood Meets the Durability of Aluminum

As LEED and GREEN continue to permeate the commercial building industry, building owners, architects and engineers are looking for new and environmentally responsible solutions for everyday building needs without sacrificing performance or aesthetics. Titus' woodgrain finishes offer an appealing substitute for wood and natural stone without harming the environment. Woodgrain finishes allow for conservation of our natural resources while also offering a durable cosmetic alternative to conventional finishes with low-to-no VOCs.

Unlike natural wood, Titus' woodgrain finishes are easy to clean and do not require the constant upkeep as wood products. They are available in either a smooth gloss or textured finish and will not deteriorate due to moisture, temperature extremes or corrosion. And of course you will never have to worry about termites. They will give you the look of high end wood grains, marbles, and granites with the durability of powder coating.

Additionally, woodgrain finishes offer high resistance toward all atmospheric agents and are resistant to heat, acids, humidity, salt, detergents and UV. All of the powders used are made in a TGIC free super durable formulation and meet the performance requirements listed in AAMA 2603 and AAMA 2604-2.

As the architectural industry searches for alternative materials to meet the growing demand for LEED and GREEN builds, Titus is proud to say that we are the first commercial HVAC company to bring this cutting edge technology to the U.S. market.

Redefine your HVAC aesthetics with high-performance metal products that look like wood and stone. There is really no limit to what you can create when you redefine your comfort zone.





At Titus our goal is very clear: to help the people who depend upon us by continuing to innovate and advance the science of air distribution. We are guided in this work by our commitment to building on opportunities that significantly improve the health, efficiency, comfort and aesthetics of the environments in which our products are used.

Contact us for your next air distribution solution!

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web: www.titus-hvac.com

