



VARIABLE SPEED, COMPACT  
VERTICAL FAN COIL UNIT



USES INCLUDE:

- Condominiums
- Apartments
- Student Residences
- Hotel Rooms
- Aged-Care Facilities
- Showrooms
- Armed Forces Barracks



Engineered to provide quiet, efficient  
climate-control in commercial  
and multi-unit spaces.



**TEMSPEC.COM**

**The Temspec LEAF is the ideal HVAC solution for both new construction and renovation projects and is ideal for use in condominiums, hotels, student residences, armed forces barracks and assisted living residences.**

### Swaged Riser Ends

The Swaged Riser Ends allow for quick installation with no couplings, saving time money. It's estimated that installation time is reduced by 30 minutes per unit by having to solder only one joint.



### Hinged Filter Access Panel

Filter changes are quick and easy and does not require any tools.



### A Small Footprint

The 300-400CFM Leaf footprint is 15% smaller than most competitors. In a 250 suite project this represents 60 sq. ft. of leasable savings and allows the unit to fit any retrofit application.



## QUIET COMFORT WITH SIMPLE INSTALLATION & EASY MAINTENANCE

### Exceptionally Quiet

The new vertical stacked fan coil unit was designed with the target of being the quietest unit on the market. The cabinet size and shape, fan design and location, and cabinet acoustic treatments all play a role in achieving a quiet space.

### Excellent Humidity Control

(Eliminates the need for reheat control strategy)

The Temspec Leaf fan coil offers a unique ability to control humidity. With the chilled valve open, the fan speed can slow to 10%, lowering the discharge air temperature to wring the moisture out of the air. The lower discharge air temperature does not create discomfort from drafts due to the low air velocity (less than 50 FPM).

#### - Leaf Fan Coil

SAT= 50F   RAT = 75F   RAH = 60%  
Grains of moisture removed = 78-54  
= 24

#### - Conventional Fan Coil

SAT= 55F   RAT = 75F   RAH = 60%  
Grains of moisture removed = 78-64  
= 14

## TECHNICAL SUPPORT

888-TEMSPEC • 888-836-7721

# THE MOST Energy Efficient FAN TECHNOLOGY on the market today

## High-efficiency ECM Impeller Fans

Electronically commutated motors (ECM), with backward inclined fans are typically 40% more efficient than PSC motors and forward-curved fans at full load and up 70% more efficient at part load. In a typical 500 suite condominium or hotel in climate zone 5, this represents energy savings of more than 200,000kWH annually. A significant maintenance cost reduction. The 0-10VDC variable speed fan operates at the lowest speed possible to maintain the room temperature for quiet, efficient operation.



**Variable Speed  
250 mm Backward  
Inclined ECM  
Impeller Fan**



**Variable Speed  
310mm Backward  
Inclined ECM  
Impeller Fan**



## Thermostat Control

Our standard thermostat is digital, programmable with 0-10VDC variable speed fan control. WiFi, BACnet and hospitality options are available.

**100%  
Corrosion  
Resistant  
Polymer  
Drain Pan**



## Calculate Your kW Demand & kWh Reduction

FAN COIL FAN ENERGY - WATTS			
CFM	PSC with *FC Fan	ECM with *FC Fan	**ECM with BI Impeller Fan
300	68	41	11
400	88	52	19
600	121	96	31
800	193	155	49
1000	261	209	88
1200	360	288	119

\*FC=Forward Curved

\*\*BI=Backward Inclined Impeller

Note: Annualized average comparing forward curved-fan and multi-speed PSC and ECM with BI ECM fan.

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## SPECIFICATIONS & PERFORMANCE

	Size 03-04	Size 06-08	Size 10-12
Dimensions	84" H x 16" W x 16" D 2133mmH x 406mmW x 406mmD	84" H x 20" W x 18" D 2133mmH x 508mmW x 457mmD	84" H x 24" W x 18" D 2133mmH x 609mmW x 457mmD
MAX Airflow	100-400CFM, (47 - 189l/s)	200-800CFM, (94 - 378l/s)	300-1200CFM, (142 - 566l/s)
MAX ESP @ design airflow	.2" wc, (50pa)	.4" wc, (100pa)	.4" wc, (100pa)
Weight	170lbs, ( 59kg)	170lbs, (77kg)	210lbs, (95kg)
Cooling	Hydronic		
Heating	Hydronic, Electric		
Construction	20 Gauge galvanized metal		
Insulation	1" (25mm) Glass fibre with acrylic facing or 1/2" (12mm) Closed cell		
Condensate Drain	Polymer or or 304 Stainless steel	Acrylic coated galvanized or 304 Stainless steel	Acrylic coated galvanized or 304 Stainless steel
Filter	12" x 20" x 1" MERV 10	14" x 25" x 1" MERV 10	16" x 25" x 1" MERV 10
Coils	0.0045" Aluminum fins mechanically boded to to 1/2" diameter x 0.015" copper tube. 16 gauge galvanized or optional 304 SS coil casing		
Voltage	100-130VAC, 200-240VAC, 277VAC	100-130VAC, 200-240VAC, 277VAC	100-130VAC, 200-277VAC
Disconnect Switch	Yes		
Piping Packages	Shut-off valve, strainer, manual or autoflow balancing valve, stainless braided hoses		
Control Valves	2-way, 3-way, 6-way, 2 position, 0-10VDC modulating, floating point control, pressure independent control (PIC)		
Fresh Air Opening	4" H x 6" W, manual or motorized damper		
Raised Bases	4.0", 8.0", or 12.0" High, with optional access door		
Condensate Pump	Optional with 8.0" or 12.0" H raised base		
Fan Motor	ECM		
Operating Temp. Range	-25C to +60C		-13F to 140F
Fan Speed Control Input	0-10VDC	0-10VDC	0-10VDC
ECM Output	10VDC, 10mA	10VDC, 10mA	10VDC, 10mA
Soft Start	Yes		
Motor Current Limit	Yes		
Power Limiter	Yes		
Thermal Overload Protection	Yes		
Line Under Voltage Protection	Yes		
Integrated PID Controller	Yes		
Unit Mounted Risers	3/4" to 3.0" Type M or L Copper		
Riser Insulation	1/2" to 2" Fibreglass, Polyolefin, Elastomeric K-Flex, Armaflex (thickness restrictions based on riser diameters)		



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