



Thermal Recovery Unit - TRU Nano Series

- Highest thermal performance
- Dedicated constant ventilation
- Intermittent high volume exhaust
- User and installation-friendly design
- Low operating cost
- Quiet and reliable operation
- The industry's smallest footprint - compact design, only 9" overall height

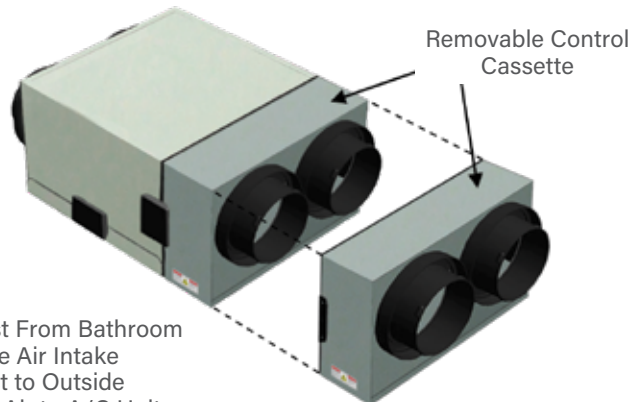
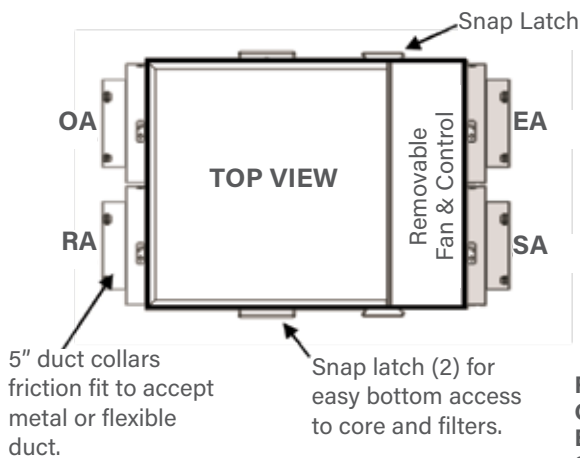
Thermal Recovery Unit - TRU Nano Series

The Nano Series units are the first units designed specifically for multi-family residential applications. The units were also designed to allow for supply air connection to another air-conditioning appliance without any adverse effects to the hydronic coils.

Our mission was to provide a compact energy efficient unit of rugged commercial design to provide indoor environmental solutions and enhance personal comfort, improve indoor air quality and increase energy savings. This was done to accommodate the trend toward improved air quality through whole suite dedicated tempered ventilation air. While the Nano Series was designed for extreme cold climates, it works just as well in warmer climates and higher humidity locations.

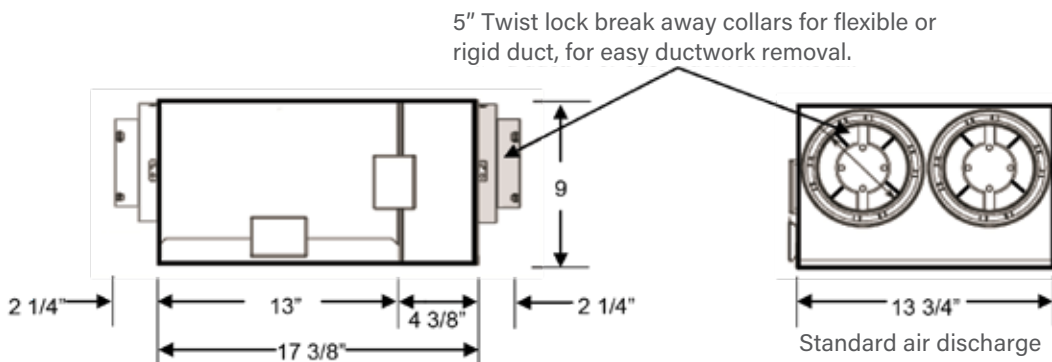


Model TRU-100SA Nano



Power control box with pre-wired 3' cord with plug. Removable bottom cover plate for easy access.

Note: If the unit is closet mounted an optional 18" x 16" snap-off ceiling access panel is available. In all other location an optional 18" x 18" hinged access is available.



Benefits that Make a Big Difference

When you consider all of the features of the TRU Nano unit, it's easy to see why they deliver so many benefits to engineers, contractors and users alike.

Fan Cycle Defrost

With smart sensing safety protocol

High Efficiency Enthalpy Core

With finger/vacuum guard and pull handle

Quiet Operation

Both motors/wheel dynamically and statically balanced

Reverse Flow (mirror image) Air Flow Available

For design and installation

Smart Controls

Simple N Smart line voltage washroom timed exhaust controls

Low Power Consumption

High efficiency external rotor AC motors

Ceiling Access

Multiple styles of optional ceiling access panels available for easy removal and service of units

Ceiling Mounting System

Flush ceiling mounted saddle with integral vibration isolation - no leveling required

TRU Nano Design Conditions

Design Criteria for Various North American Cities	Dedicated Constant Ventilation Volume	W-Sensible	W-Latent	W-Total	S-Sensible	S-Latent	S-Total
Winter -22°F Summer 82°F	50 SCFM	59.4%	51.7%	57.4%	62.8%	39.0%	48.5%
Winter 7.6°F Summer 82.4°F	50 SCFM	60.5%	54.0%	58.0%	63.0%	41.0%	49.0%
Winter 15.8°F Summer 78.8°F	50 SCFM	62.0%	52.0%	59.0%	64.0%	43.0%	52.0%

Certified HVI performance for 50 CFM at 32°F 69% ASE

TRU Nano Ventilation and Exhaust Performance

Dedicated Constant Suite Ventilation				Intermittent Exhaust							
Model	Nominal Factory Set Volumes CFM			External Static Pressure							
	Factory Installed and Calibrated Constant Volume Device Ensure Air Supply will Not Exceed Exhaust			INCH WG	0.1	0.2	.03	0.4	.05	0.6	0.8
TRU-100SA Nano	CFM	35	50	PA	25	50	75	100	125	150	200
	L/S	17	24	CFM	108	96	74	72	61	43	30
				L/S	51	45	35	34	29	20	14

TRU Nano Electrical Data

Electrical Power Typical System Running Load				Rated Electrical Requirements			
Model	Volts	Low Speed Continual	High Speed Int. Exhaust	Model	Volts	HZ	AMPS
TRU-100SA	120	32 watts	69 watts	TRU-100SA	120	60	0.6

Confirms to UL and CSA Standards.

Behind every unit that carries the Whalen name is a singularity of purpose: the engineering and manufacturing of products that improve the quality of life for our customers.

Our long-term commitment to this endeavor assures you of systems that are distinctive in **concept**, **performance**, **reliability** and **value**.

The number of industry “firsts” from Whalen is impressive. They include:

- The industry’s first vertical stack valveless fan coils
- The first vertical stack heat pump offering
- The first removable chassis closet-type heat pumps
- The first AHRI-listed water-cooled air conditioning units with hydronic heat

Let us put Whalen innovation to work for you, too. Find out how our approach to your project will deliver a “perfect fit” solution – and make your life easier.

Need to locate a sales representative? Whalen’s sales rep locator tool was designed to help you easily find a Whalen sales representative within the United States and Canada.

whalencompany.com/relocator



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