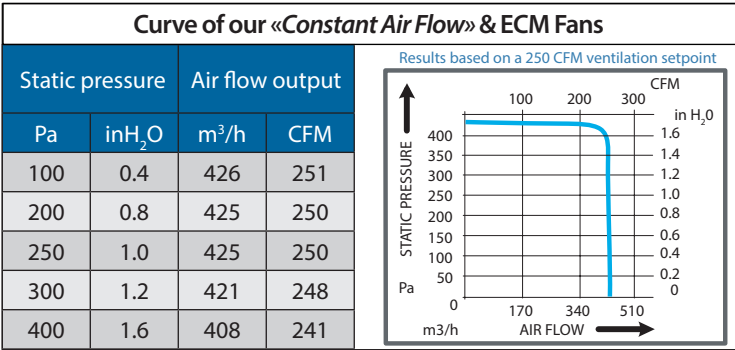


AHRI 210/240 Protocol Test Results			All the information on this page is related to model #CATU-V12					
Heat pump heating test conditions	BTU/H	COP	HSPF					
			Region I	Region II	Region III	Region IV	Region V	Region VI
Outdoor 47°F/43°F Indoor 70°F/60°F Airflow 250 CFM, 1 H ₂ O	8700	3.3	11.6	11.3	11.0	10.5	9.5	11.4
Outdoor 35°F/33°F Indoor 70°F/60°F Airflow 250 CFM, 1 H ₂ O	6700	2.9						
Outdoor 17°F/15°F Indoor 70°F/60°F Airflow 250 CFM, 1 H ₂ O	5600	2.7						
Heat pump cooling test conditions	BTU/H	EER	SEER					
Outdoor 95°F/75°F Indoor 80°F/67°F Airflow 250 CFM, 1 H ₂ O	11200	11.6	14.1					
Outdoor 82°F/65°F Indoor 80°F/67°F Airflow 250 CFM, 1 H ₂ O	11500	13.4						

AHAM DH-1 Protocol Test Results		
Test conditions	Air exchange mode	Heat pump mode (recirculation)
Outdoor 80°F/60% RH Indoor 80°F/60% RH Airflow @ 180 CFM (in Cooling)	118 pints per day (56 liters per day)	118 pints per day (56 liters per day)



Energy Recovery Performance in air exchange mode using CSA 439-09 Protocol Test Results (the one that HVI uses)							
Fresh air from outside				Fresh air to building	EC	ASRE	SRE
Heating							
°F	% RH	m³/h	CFM	°F	W	%	%
32	75	170	100	104	652	182	124
32	75	425	250	74	671	107	84
-13	75	170	100	67	437	95	76
Cooling							
°F	% RH	m³/h	CFM	°F	W	ATRE (%)	TRE (%)
95	50	425	250	68	909	135	63
86	55	425	250	61	865	233	96
RH = Relative Humidity m³/h = Cubic meter per Hour CFM = Cubic Feet per Minute EC = Energy Consumption				ASRE = Adjusted Sensible Recovery Efficiency SRE = Sensible Recovery Efficiency ATRE = Adjusted Total Recovery Efficiency TRE = Total Recovery Efficiency			

Sound Pressure Level (SPL) Results	
Test conditions	SPL
100 CFM @ 0.2 H ₂ O (with compressor ON and fully ducted)	35 dB(A)
150 CFM @ 0.3 H ₂ O (with compressor ON and fully ducted)	37 dB(A)
180 CFM @ 0.4 H ₂ O (with compressor ON and fully ducted)	39 dB(A)
250 CFM @ 0.7 H ₂ O (with compressor ON and fully ducted)	43 dB(A)



Dimensions & Weight			
Dimensions			Weight
Length	Height	Width	
40.5 in	16.25 in	18 in	110 lbs
1029 mm	413 mm	457 mm	50 kg
Power consumption when unit is off with one wallmount control: 10w			

Electrical Specifications				Electronically Commutated Motor Fans [x2]			Fresh Air Range ASHRAE 62.2 & CSA F326 Compliant	Hermetic Rotary Compressor			Refrigerant
Tension	Phase/Hz	Circuit	Breaker	Power	FLA	Airflow Range		Power	RLA	LRA	
120 V	1/60	12.3 A	15 A	136 W max.	2 A	80-250 CFM ± 9 %		20-180 CFM	725 W	6.6 A	
Coils Filters rating				High Efficiency Filter rating		Case		Color		Round Ports [x4]	
MERV 8 (EN G4)				HEPA MERV 15 (EN F9)		100% Aluminium		Glossy White		ø 6-8 in (150-200 mm)	



5-YEAR LIMITED WARRANTY. Please refer to the User Guide for more detail.

Authorized Reseller:

WWW.MINOTAIR.COM

HEAD OFFICE: 1.819.777.2454

TOLL FREE: 1.855.888.2292

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CATU-V12-ENG-102017-USA1



Compact ATU® (Air Treatment Unit) Series

Bringing unrivaled levels of indoor comfort & health

For Single House,
Multifamily and
Light Commercial Applications



The Most Compact, Complete and Intelligent “All-in-one”
HVAC solution for Passive House

PASSIVE HOUSE & HVI CERTIFICATIONS PENDING
ASHRAE 62.2 + CSA F326 COMPLIANT

Our PentaCare Formula[®] : bringing the Most Complete “all-in-one” Intelligent HVAC Solution for Passive House

Fi HIGH EFFICIENCY HEPA AIR FILTRATION

Our quality HEPA filter is made with a rigid metal frame and has **top of its class** MERV 15/F9 filtration level. This very high level of air filtration is made possible in part by our powerful and energy-efficient ECM Constant Airflow fan technology. And with us it's not an option like most others with only MERV 13 filtration level: it's standard with all our units.

Hu HUMIDITY MANAGEMENT WITH AUTOMATIC DEHUMIDIFICATION IN HOT AND HUMID WEATHER

Our “Compact ATU[®]” uses our **HUMIWATCH 365[®]** exclusive system to eliminate excessive moisture better than all other types of equipments as HRV, ERV or heat pump based models. It's done by the recirculation mode made possible by our proprietary motorized damper, our Axis Damper[®]. The end result: Minotair gets rid of up to 118 pints of water per day (it's about 50% more than our closest competitor!). That's comforting! Moreover, humidity management will contribute to frost-free windows during winter.

PLUS HEAT & HUMIDITY RECOVERY WITH OUR INNOVATIVE AND PIONNEERING ASD[®] (AUTOMATIC SHOWER DETECTOR)

Another first that we brought to the market over a year ago: our “Automatic Shower Detector” function automatically recirculates the warm moist air from your shower only when your indoor air is too dry. Because you pay to heat this air, may as well keep it inside, especially in winter! If the inside humidity level is normal, this moisture is exhausted outside instead (like it's mostly the case during summer) and the heat recuperated if needed.

MANY ADDITIONAL BENEFITS & OPTIONS LIKE...

CONSTANT AIR FLOW FANS: Again another first that we brought in the residential market: the most powerful fans using the latest constant airflow ECM technology. We don't control your duct installation but we can compensate as much as possible to deliver the right amount of fresh air in your ducts like no others. Our fans do **REAL-TIME CALIBRATION OF INTAKE & EXHAUST AIR FLOWS** to help your home achieve balanced air flow pressure.

HUMIDIFIER MODULE: For the homes still having too dry indoor climate in winter. Fully managed by our controller. Available end of 2017. (OPTION)

VOC AND CO² POLLUTANT SENSORS: Key word here is flexibility! You can choose your own sensors made by renown and specialized manufacturers and easily connect them to our machines. So you can do precise IAQ Multi-Room Sensing. Like monitoring a new-born bedroom in priority. (OPTION)

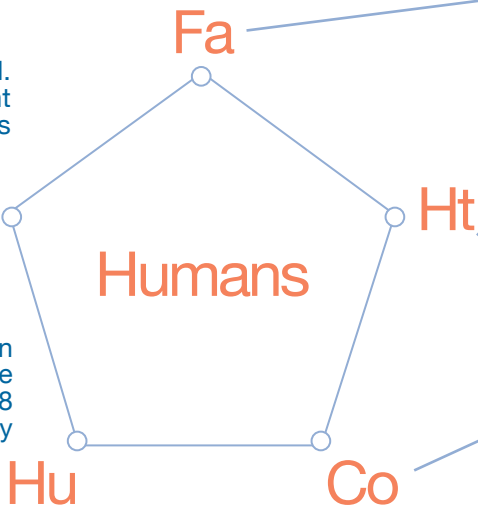
DUCTWORK DESIGN AND LOAD CALCULATIONS SERVICES AVAILABLE. By partnering up with engineering and other technical firms we can offer you many of those advanced technical services throughout the USA and Canada. (FEES APPLICABLE)

ENERGY-EFFICIENT FREE COOLING MODE
Useful during some cool nights (in summer for example) to both cool and freshen your home naturally at almost no cost! And for a maximum effect you can also use the **Turbo Cooling mode** that will add cooling to that already naturally cool night air!

UPDATABLE CONTROLLER (*updates done by USB key*). Our controller is the only one in the industry to be updatable and of industrial grade. Over time, not only will you benefit from the latest features and updates, but you will also stay away from obsolescence. In this regard our “Compact ATU[®]” is in a league of its own once again!

MULTIFAMILY REMOTE MANAGEMENT: With BACnet[™] & Modbus[®] connectivity, building managers will be able to monitor and even control remotely our units. Its included “**Tenant Mode[®]**” will also provide tenants a simpler user interface to use. (OPTION)

5000 WATTS ELECTRICAL DUCT HEATER (EDH): Intensity is 100% variable to get only the precise amount of auxiliary heat required during the heating season. Totally controlled by our main controller. (OPTION). **NOTE:** The EDH is mandatory to use along with our units when they are used as the main HVAC system to provide heating in a home (ie: Passive House, etc.).



Fa FRESH AIR SUPPLY + AIR POLLUTANTS REDUCTION

At this time our “Compact ATU[®]” is able to accomplish all these tasks of bringing in fresh air and getting ride of stale air with its pollutants in it with flying colors.

Active Heat Recovery: 21st Century new standard

Once again our “Compact ATU[®]” brings you in the 21st century by making efficient use of our Active Heat Recovery made possible by our thermodynamic state of the art subsystem. It permits, with the rest of our “Compact ATU[®]” components, to do the job of 4 different machines: HRV/ERV + Heat Pump + Dehumidifier + HEPA Air Filtration device. So it saves time and money while increasing your comfort level!

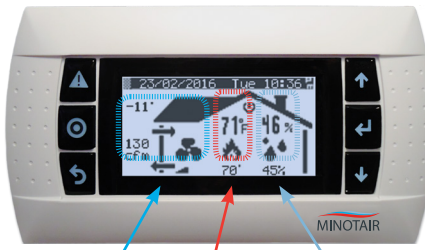
Ht + Co HEATING AND COOLING DIRECTLY WHERE IT MATTERS

The “Compact ATU[®]” performs a very precise distribution of treated fresh air (filtered + cooled or heated or dehumidified) directly to all the rooms serviced by the ductwork. All of which is contrary to a ductless mini-split heat pump that is limited to recirculating the stale air present in the room where it is installed. That means more efficient heating, cooling and fresh air delivery in all the dwelling.

FRESH AIR with “NET BTU” COOLING & HEATING

The “Compact ATU[®]” performs like no other by being able to feed you fresh air AND cooling it at the same time (within a certain temperature range). That's multitasking at its best!

Experience unrivaled levels of **indoor** comfort & health!



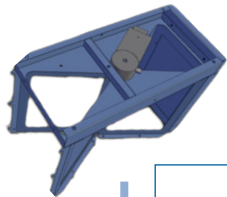
Ventilation - Temperature - Humidity

USER-FRIENDLY WALLMOUNT CONTROL. Remotely access the same information and functionality provided by the integrated “Compact ATU[®]” controller. So you can see factors affecting comfort and air quality of your home at a quick glance.

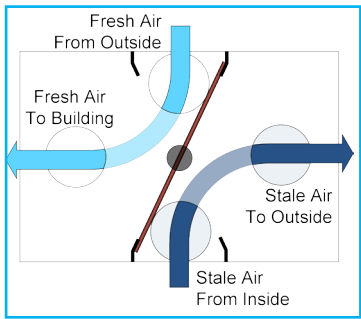


Our Axis Damper[®]

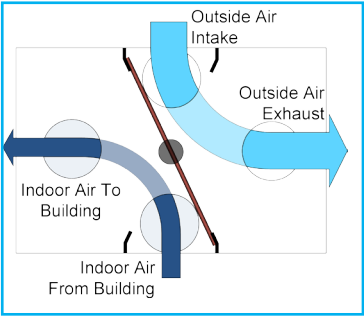
Centerpoint of our Compact ATU[®], this unique damper system makes possible all the modes of operation.



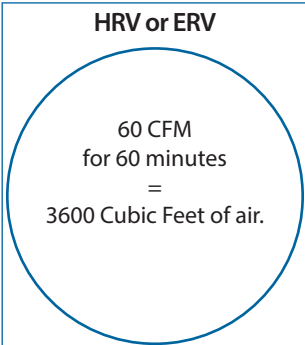
Below is a simple example of how our Axis Damper[®] permits multiple functions. For ease of explanation we use here a one-hour window.



AIR EXCHANGE MODE
For fresh air, pollutants removal, active heat recovery, “net BTU” heating & cooling and summer fresh air free cooling & turbo cooling.

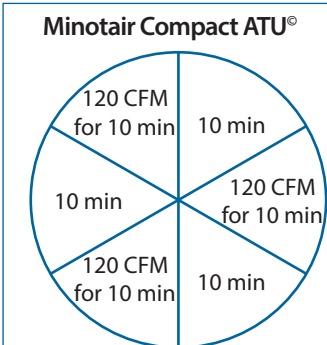


RECIRCULATION MODE
For heating, cooling, dehumidification and added filtration.



60 minutes @ 60 CFM = **3600 Cubic Feet of air.**

This example above is **one of many multiple ways** on how our Compact ATU[®] very effectively manage all the aspects of indoor climate. **Our advanced algorythms make a great difference!**



30 minutes @ 120 CFM = **3600 Cubic Feet of fresh air.**

PLUS
30 minutes available to manage other important aspects of your comfort and your health like humidity management, heating, cooling and added air filtration.