



Did You
Know...
April 2018 Edition

Featured Unit: Rooftop ERV Air Handler with an AIRotor 3Å Enthalpic Energy Wheel and a Changeover Water Coil

Contact us at
sales@xetexinc.com

Big Energy Wheels

As the saying goes “Go Big or Go Home!” and in this case XeteX went really big. This project required a 12 foot AIRotor all aluminum sectionalized 3Å enthalpic energy wheel.

The highlighted unit this month was used in a higher education lecture hall application that required 80,000 cfm of ventilation air to be brought into the space in an energy efficient way. The energy wheel in this unit uses several of AIRotor’s features to help accomplish this such as an adjustable purge, a compact motor drive system that is coupled with a VFD. The VFD is not only used to adjust the wheel speed, but also assists with frost protection and economizer control.

Another benefit of using the energy wheel in this unit design was the reduction of the cooling and heating load capacities because the total energy recovered by the enthalpic wheel was 3,080 MBH.

Unit highlights include:

- 2” double wall casing with polyiso foam board insulation
- Sectioned unit construction, 3 pieces for shipping and lifting on the jobsite
- Single changeover water coil for chilled and hot water
- Direct drive fans on 1” seismic isolation springs with VFD control
- Supply and exhaust fans with airflow measuring ring
- Single point power connection
- Service lights
- 120V GFCI Outlets
- 304 Stainless steel drain pans

If you need assistance on any application you are currently working on please contact XeteX Sales at 612-724-3101 or email us at sales@xetexinc.com.

Unit Specification:

Model:	AVR-3600-RT-CW-FF		
Height:	152”	Width:	168”
Length:	288”	Weight:	22,000 lbs.
OA Summer Design:	91°Fdb / 63°Fwb	OA Winter Design:	7°Fdb
Supply CFM:	40,000	Energy Recovery:	3Å Energy Wheel
Cool Type:	Chilled Water	Heat Type:	Hot Water
Leaving Cooling Temp:	65.8°Fdb / 57.8°Fwb	Leaving Heating Temp:	107.5°Fdb

