

TO: All Greenheck Representatives  
FROM: Brina Frank  
Application Engineer II, Tempered Air Products  
DATE: March 30, 2020  
SUBJECT: Model ECV-40



We are excited to introduce a four-core preconditioner, model ECV-40. Effective with CAPS® 4.32 (April release) model ECV-40 will be available with fiber (-FM) or polymer (-PM) membrane cores with airflow capacity up to 5,000 cfm. As with all ECV models, the ECV-40 has AHRI Certified performance!

Model	Maximum CFM	
	Fiber Membrane (-FM)	Polymer Membrane (-PM)
ECV-10	1,000	1,300
ECV-20	2,000	2,750
ECV-30	3,300	3,750
ECV-40	4,400	5,000

Model ECV-40 has a new design that features a dual-fan arrangement consisting of mixed flow plenum fans with variable frequency drives (VFDs). This replaces the previous design using a forward-curved fan. The mixed flow fan is a hybrid design between an axial propeller and centrifugal fan and is currently used in models DGX, IGX, and MSX. The mixed flow fan has numerous benefits including:

- Reduced brake horsepower requirements of up to 50%
- Ease of maintenance with no belts
- VFDs to facilitate ease of balancing at start-up
- Reduced sound power levels

The overall size of the ECV-40 is optimized to ensure the best unit performance in the smallest unit footprint available. As with other ECV models, options for frost/economizer control, hinged access, double wall construction, and stand-alone microprocessor controls are available.



Additionally, specifying a polymer core model provides the following competitive advantages that remain unmatched by the competition:

- Increased airflow with lower air-side pressure differentials
- Smaller housing size
- Washable polymer core with increased thermal effectiveness
- Direct drive fan arrangement (no more belts!)
- Specifiable mixed flow plenum fans

As Greenheck continues as the leading manufacturer in energy core ventilators, all ECV housing sizes will be redesigned in the future with the mixed flow fan arrangement and reduced unit sizes. For additional information, please contact TAP support at 1-800-240-0870, extension 3 or [TAP@greenheck.com](mailto:TAP@greenheck.com).