



IAQ

Ceiling Panels

- MERV 8 and LEED Projects
- Low Pressure Drop Ceiling Panels
- Enhanced Air Filtration



IAQ Series Ceiling Panels

The IAQ series ceiling panels are for exclusive use with First Co. HX(X) and CDX(Q/-HW) series ceiling fan coils.

CEILING FAN COIL ADVANTAGES:

Traditional upflow air handlers require large equipment closets that are costly to build and use a significant amount of valuable floor space that could otherwise be used as additional square footage of living space. In addition to eliminating the need for a costly mechanical closet, First Co. ceiling fan coils offer architects, engineers, and developers much more flexibility in efficient floor plan design without compromising overall HVAC performance.

THE PROBLEM:

With the proliferation of advanced building code standards (i.e. CalGREEN) and above-code building programs (i.e. LEED, Energy Star) across the country, HVAC systems must deliver increased efficiency and cleaner indoor air without compromising system airflow and overall performance. In the past, selection of filtration for space-constrained ceiling fan coils has been limited to “throw-away” 1” filters with a minimal pressure drop and, generally speaking, minimal filtration efficiency. Ceiling fan coils with limited free area for return air inside the access panel simply don’t have the capability of overcoming the higher initial static resistance of high efficiency filter media (i.e. MERV 8 and above) required by several advanced building code programs. Static resistance exceeding the system’s design capabilities often results in reduced airflow, shorter equipment life, and an increase in operating costs to building occupants.



965-M8



966-M8, 967-M8,
967-6-M8, 967-8-M8

THE SOLUTION:

First Co. is pleased to introduce the IAQ Series of low pressure drop ceiling panels for applications that require enhanced air filtration without compromising system efficiency and design flexibility! These panels are laboratory tested and approved for use with specific models of First Co. cased and uncased ceiling fan coils (see p. 2). In order to maximize filtration efficiency and minimize initial static pressure drop, each First Co. IAQ Series panel is designed to perform effectively with high efficiency filter media (field supplied). Available free return air surface area is enhanced on the IAQ Series by adding substantially more louvers without compromising the structural integrity of the panel.

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PANEL FEATURES:

- Heavy gauge galvanized steel construction
- Attractive and durable baked on powdered epoxy coating (off-white)
- Enhanced louver design for minimum air restriction
- Hinged door panels with captive screws for easy filter access
- The door panels can be removed from the frame and reversed for better clearance
- Filter clips accept two 1" filters per panel (one filter on 965-M8)

DIMENSIONS AND FAN COIL MATCHES							
IAQ Panel #	Filter Thickness	Panel Frame Dimensions	FOR HX / HXX FAN COILS		FOR CDXQ / CDX-HW FAN COILS		Accepts Filter Size (Qty)
			Case #	Unit Model	Case #	Unit Model	
965-M8	1"	43 X 27.5	9EHX01	18,19,24HX(X)(-C)			20 X 30 X 1 (1)
965-M8-2	2"						20 X 30 X 2 (1)
966-M8	1"	49 x 27.5	9EHX02	20,25,30HX(X)(-C)	9ECDX01	18,19CDXQ(-C)(-HO) / CDX-HW(-C)(-HO)	20 X 20 X 1 (2)
966-M8-2	2"						20 X 20 X 2 (2)
967-M8	1"	55.5 x 27.5	9EHX03	26,31,36HX(X)(-C)	9ECDX02	20,24,25CDXQ(-C)(-HO) / CDX-HW(-C)(-HO)	20 X 20 X 1 (2)
967-M8-2	2"						20 X 20 X 2 (2)
967-6-M8	1"	63 x 27.5	9EHX04	32,37HX(X)(-C)	9ECDX03	26,30,31CDXQ(-C) / CDX-HW(-C)	20 X 25 X 1 (2)
967-6-M8-2	2"						20 X 25 X 2 (2)
967-8-M8	1"	70 x 27.5			9ECDX04	32,36,37CDXQ(-C)(-HO) / CDX-HW(-C)(-HO)	20 X 30 X 1 (1)
976-8-M8-2	2"						20 X 30 X 2 (1)

NOTES:

- (1) These panels are only approved for use with the listed First Co. Cased or Uncased ceiling fan coils.
- (2) Filters are not shipped with these panels. They must be field supplied.
- (3) First Co. recommends replacing these filters every month, or more frequently if necessary.

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IAQ PANEL PERFORMANCE DATA										
MERV 8 STD (1")	CFM									
	500	600	700	800	900	1000	1100	1200	1300	1500
965-M8 (20X30) Filters (1)	0.04	0.06	0.07	0.08	---	---	---	---	---	---
966-M8 (20X20) Filters (2)	---	0.04	0.05	0.06	0.07	0.08	0.09	---	---	---
967-M8 (20X20) Filters (2)	---	0.04	0.05	0.06	0.07	0.08	0.09	---	---	---
967-6-M8 (20X25) Filters (2)	---	---	0.03	0.04	0.05	0.06	0.06	0.07	0.08	---
967-8-M8 (20X30) Filters (2)	---	---	---	0.03	0.04	0.04	0.05	0.06	0.06	0.08

IAQ PANEL PERFORMANCE DATA										
MERV 8 HIGH CAPACITY (1")	CFM									
	500	600	700	800	900	1000	1100	1200	1300	1500
965-M8 (20X30) Filters (1)	0.03	0.04	0.06	0.07	0.08	0.10	---	---	---	---
966-M8 (20X20) Filters (2)	---	---	0.03	0.04	0.05	0.06	0.07	0.08	0.10	---
967-M8 (20X20) Filters (2)	---	---	0.03	0.04	0.05	0.06	0.07	0.08	0.10	---
967-6-M8 (20X25) Filters (2)	---	---	---	---	0.04	0.04	0.05	0.06	0.07	0.08
967-8-M8 (20X30) Filters (2)	---	---	---	---	---	0.03	0.04	0.04	0.05	0.06

IAQ PANEL PERFORMANCE DATA										
MERV 11 STD (1")	CFM									
	500	600	700	800	900	1000	1100	1200	1300	1500
965-M8 (20X30) Filters (1)	0.04	0.05	0.06	0.08	0.09	---	---	---	---	---
966-M8 (20X20) Filters (2)	---	0.03	0.04	0.05	0.06	0.07	0.08	0.09	---	---
967-M8 (20X20) Filters (2)	---	0.03	0.04	0.05	0.06	0.07	0.08	0.09	---	---
967-6-M8 (20X25) Filters (2)	---	---	---	0.04	0.04	0.05	0.06	0.07	0.07	0.09
967-8-M8 (20X30) Filters (2)	---	---	---	---	0.03	0.04	0.04	0.05	0.06	0.07

NOTES:

- (1) The above is the actual laboratory test data for these panels.
- (2) Refer to fan coil specification sheets for fan coil blower data.

For questions regarding panel applications and specifications, please contact your local representative or First Co. at 214-388-5751

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IAQ PANEL PERFORMANCE DATA										
MERV 11 HIGH CAPACITY (1")	CFM									
	500	600	700	800	900	1000	1100	1200	1300	1500
965-M8 (20X30) Filters (1)	0.03	0.04	0.06	0.07	0.08	0.10	---	---	---	---
966-M8 (20X20) Filters (2)	---	---	0.03	0.04	0.05	0.06	0.07	0.08	0.10	---
967-M8 (20X20) Filters (2)	---	---	0.03	0.04	0.05	0.06	0.07	0.08	0.10	---
967-6-M8 (20X25) Filters (2)	---	---	---	---	0.04	0.04	0.05	0.06	0.07	0.08
967-8-M8 (20X30) Filters (2)	---	---	---	---	---	0.03	0.04	0.04	0.05	0.06

IAQ PANEL PERFORMANCE DATA										
MERV 13 (1")	CFM									
	500	600	700	800	900	1000	1100	1200	1300	1500
965-M8 (20X30) Filters (1)	0.06	0.08	0.09	---	---	---	---	---	---	---
966-M8 (20X20) Filters (2)	0.04	0.05	0.06	0.08	0.09	0.10	---	---	---	---
967-M8 (20X20) Filters (2)	0.04	0.05	0.06	0.08	0.09	0.10	---	---	---	---
967-6-M8 (20X25) Filters (2)	0.03	0.04	0.05	0.06	0.07	0.08	0.09	0.10	---	---
967-8-M8 (20X30) Filters (2)	---	0.03	0.04	0.05	0.05	0.06	0.07	0.08	0.08	0.10

IAQ PANEL PERFORMANCE DATA										
MERV 13 (2")	CFM									
	500	600	700	800	900	1000	1100	1200	1300	1500
965-M8-2 (20X30) Filters (1)	0.04	0.05	0.07	0.09	---	---	---	---	---	---
966-M8-2 (20X20) Filters (2)	0.04	0.05	0.05	0.07	0.08	0.09	0.10	---	---	---
967-M8-2 (20X20) Filters (2)	0.03	0.04	0.05	0.06	0.07	0.09	0.10	---	---	---
967-6-M8-2 (20X25) Filters (2)	---	---	---	0.03	0.04	0.04	0.05	0.06	0.07	0.10
967-8-M8-2 (20X30) Filters (2)	---	---	0.03	0.04	0.04	0.05	0.06	0.07	0.08	0.10

NOTES:

- (1) The above is the actual laboratory test data for these panels.
- (2) Refer to fan coil specification sheets for fan coil blower data.

Catalog No. **IAQ1118** (replaces IAQ917)



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