InterFold Pleated Disposable

Primary/Pre-Filters – G4 MERV7-8, M5 MERV8-10, MERV11, MERV13

General Characteristics

Interfold Pleated Disposable filters have an extended surface and is fully disposable. They are widely used as primary or pre-filters in Fan Coil Units (FCU), Air Handling Units (AHU) or Fresh Air Fans (FAF) in both new or existing air filtration systems. The greater extended surface allows higher dust holding capacity and extends replacement intervals compared to flat panel filters. It is used as a pre-filter which considerably extends the life of other secondary filters in the filtration system and is used to prevent dust build-up on heating and cooling coils, fans and ducts.

+ Primary Filters with G4 – F8 Efficiencies

+ Synthetic Polyproylene Pleated Media

+ Corrosion-Resistant Expanded Mesh

+ Moisture-Resistant Kraft Board

+ Extended Surface Media Area

+ ElectroStatic (ES) Media MERV10,11,13,14

Model: **IF30**
Description: Pleated Disposable 25-35%/ 40-45%
MERV7-8
Thiclness available 1” 2” 4”
White Colour replaced Blue colour

Model: **IF40**
Description: Pleated 40-55%
MERV8-10
Thickness available 1” 2” 4”

Model: **ES65 IF, ES13 IF**
ES14 IF
Description: ES Pleated MERV11
ES Pleated MERV13
ES Pleated MERV14
Thickness available 1” 2” 4”
Replaced Model IF55

Model: **30CG , 40CG**
Description: Gi Pleated HC
IF30/ IF40/ES65/ES13/ES14 media
Thickness available 1” 2” 4”
Anti-corrosion Gi/Al frame for
Rigidity use in high moisture area
or high airflow eg. CRAC,near
outdoor
Cross Support Bracers:Downstream
Optional Mesh Dowstream/Airout

Construction

IF Interfold filter media comprises non-woven, reinforced polyster or Electrostatic Polypropylene. The filter class is G4 with improved Average Dust Spot efficiency >1um particle size >35-45% and average arrestance efficiency of 92%, achieving MERV8. Improved IF40 Filters with dust spot efficiencies of 45-55 is interchangeable to use, MERV8 to 10. ES65 IF Electrostatic Pleated can achieve Average Composite Particle Size Efficiency >65-85% (1.0-3.0um) rating of MERV11. ES13 Pleated of MERV13 of Efficiency>85% (1-3um) is available.

The media support is an expanded diamond grid with effective open area of more than 98%. The corrosion-resistant galvanised expanded mesh grid is laminated to the filter media to maintain pleat shape and to reduce media oscillation.

The radial ‘V’ pleated design increases the filter media area to maximise the dust holding capacity and extends the service life.

The enclosing frame is made of heavy duty moisture-resistant Kraft board with diagonal support members bonded to each pleat on the upstream and downstream sides. This ensures pleat spacing and stability. Finally the filter pack is tightly bonded to the enclosing frame to eliminate the possibility of air bypass. Pleat stablilisers are included for 4” filters to ensure pleat spacing and rigidity.
Optional Gi/Al frame high capacity rated is available used for CRAC units which has high velocity or high humidity

IF International Filtration

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Specifications

Model	IF30			IF40			ES65 IF			ES13 IF		
Description	Pleated 25-35%/ Pleated 40-45%			Pleated 40-55%			ES65 Pleated			ES13 Pleated		
Nominal Thickness	1”	2”	4”	1”	2”	4”	1”	2”	4”	1”	2”	4”
Inital Pressure Drop at 1.9m/s	50	39	33	59	46	38	59	46	38	91	63	52
Initial Pressure Drop at 2.5m/s	70	57	47	90	69	58	90	69	58	115	95	76
Filter Class EN779 / Eurovent 4/4	G4 / EU4			M5 / EU5			M6 / EU6			F7 / EU8		
ASHRAE 52.1-1992 Average Dust Weight Arrestance >10um	92%			95%			95%			98%		
ASHRAE 52.1-1992 Average Atmospheric Dust Spot Efficiency >1um	35-45%			45-55%			60-65%			80-85%		
ASHRAE 52.2-2015 MERV Removal of Efficiency by Particle Size	MERV 7 to 8			MERV 8 to 10			MERV 11 >65%@1-3um			MERV 13 >85%@1-3um		
Media Area sqft	6.4	17	27	6.4	17	27	6.4	17	19	6.4	17	19
Pleats per 24x24” for HC	24	24	21	24	24	21	24	28	16	24	28	16
Pleats per 24x24” for SC	NA	16	16	NA	16	16	-	-	-	-	-	-

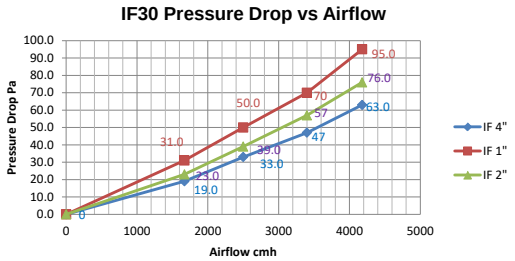
Performance data is based on EN779 & ASHRAE 52.2-2015,2017: Method of Testing General Ventilation Air-Cleaning Devices for Removal Efficiency by Particle Size, ASHRAE 52.1-1992 test method entitled: Gravimetric and Dust-Spot Procedures for Testing Air-Cleaning Devices Used in General Ventilation for Removing Particulate Matter”. Data provided is for comparison and information.
MERV: Minimum Efficiency Reporting Value HC: High Capacity SC: Standard Capacity NR : Not recommended to use
Recommendation Initial Pressure Drop <125Pa for prefiltration use, values provided for reference. Good Design face velocity below 2.5m/s, typically less than 1.8m/s

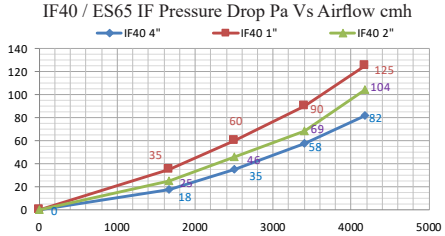
Technical Data

Filter Media
Polyester/ Polypropylene Synthetic

Enclosing Frame
Heavy Duty Moisture-Resistant Kraft Board
Option: Galvanised Steel / Aluminum with one side expanded Mesh

Continuous Operating Temperature	80°C
Relative Humidity	90%
Recommended Final Pressure Drop	150 Pa
Maximum Final Pressure Drop	250 Pa

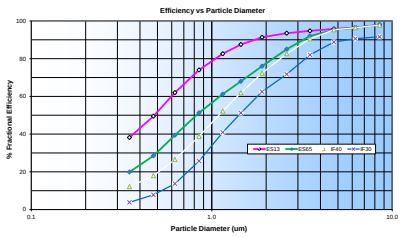




Dimensions

Nominal Size L x W x D in inch	Actual Size L x W x D in mm	Rated Air Flow m^3/h at 1.5 m/s	Rated Air Flow m^3/h at 2.5 m/s	Pleats Standard Cap (SC)	Media Area sqft (SC)	Pleats High Cap (HC)	Media Area sqft (HC)
12 x 24 x 1	289 x 595 x 21	1020	1700	NA		12	3.2
16 x 20 x 1	395 x 495 x 21	1130	1880			16	3.5
16 x 24 x 1	395 x 595 x 21	1360	2265			16	4.3
16 x 25 x 1	395 x 622 x 21	1428	2380			16	4.4
18 x 24 x 1	444 x 595 x 21	1530	2550			18	4.8
20 x 20 x 1	495 x 495 x 21	1428	2380			20	4.4
20 x 24 x 1	495 x 595 x 21	1700	2830			20	5.3
20 x 25 x 1	495 x 622 x 21	1785	2975			20	5.5
24 x 24 x 1	595 x 595 x 21	2040	3400			24	6.4
12 x 24 x 2	289 x 595 x 45	1020	1700	8	4.4	14	8.8
16 x 20 x 2	395 x 495 x 45	1130	1880	9	4.7	18	9.4
16 x 24 x 2	395 x 595 x 45	1360	2265	9	5.6	18	11.3
16 x 25 x 2	395 x 622 x 45	1428	2380	9	6.2	18	12.4
18 x 24 x 2	444 x 595 x 45	1530	2550	10	6.2	21	13.2
20 x 20 x 2	495 x 495 x 45	1428	2380	12	6.2	24	12.5
20 x 24 x 2	495 x 595 x 45	1700	2830	12	7.5	24	15.0
20 x 25 x 2	495 x 622 x 45	1785	2975	12	7.8	24	15.7
24 x 24 x 2	595 x 595 x 45	2040	3400	16	9.4	28	17.6
12 x 24 x 4	289 x 595 x 95	1020	1700	8	9.4	11	13.0
16 x 20 x 4	395 x 495 x 95	1130	1880	9	9.2	14	14.4
16 x 24 x 4	395 x 595 x 95	1360	2265	9	11.1	14	17.3
16 x 25 x 4	395 x 622 x 95	1428	2380	9	11.5	14	18.0
18 x 24 x 4	444 x 595 x 95	1530	2550	10	12.1	16	19.5
20 x 20 x 4	495 x 495 x 95	1428	2380	12	12.0	18	18.0
20 x 24 x 4	495 x 595 x 95	1700	2830	12	14.4	18	21.6
20 x 25 x 4	495 x 622 x 95	1785	2975	12	15.0	18	22.5
24 x 24 x 4	595 x 595 x 95	2040	3400	16	19.8	21	27.0

Additional sizes available in the following diecut sizes: 14x20x1 25x25x1 12x12x1 14x25x1 16x16x1 18x25x1 15x20x2 25x25x2 12x20x2 16x16x2 18x25x2 30x30x4
Odd sizes can be custom fabricated accordingly
Width and height dimensions are interchangeable
Filters may be installed with the pleats either vertical or horizontal
Media with mesh preferably installed at air out/downstream



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