

Intercell Al-Sep

Secondary/ Medium Filters F6 60-65%, F7 80-85%, F8 90-95%

General Characteristics

Intercell is used as a secondary filter in general air conditioning systems. Its rigid construction allows it to be used in variable air volume, turbulent conditions where it will not be affected by fan shut down or start up during operation. They are also used for installations where high temperature or humidity is prevalent. They are also suitable for use in oil mist applications.

- + Secondary Filter with F6 - F8 efficiencies
- + Micro Fibreglass with Aluminum Separators
- + Galvanised Steel Frame
- + Extended Surface Media Area
- + HT model of high temperature up to 250°C

Description: Intercell Al-Sep F8 90-95%, Gi, SH
Size: 593x593x290mm

Construction

Filter Media

The filter media is micro fibreglass paper which is water repellent and anti-fungicide. The fibreglass media has graduated density coarse fibres on air in and finer fibres on the air leaving to develop high dust holding capacity.

Separators

The fibreglass paper is deep pleated with aluminum crimped spacers acting as separators.

Enclosing Frame

The filter pack is sealed into a galvanised steel case by lofted glass pad or hotmelt for general applications. In high temperature applications like paint finishings or motor industry, the pack is sealed with 3mm thick binderless glass pads. HT models are High Temperature up to 250°C with red silicone based sealant and gasket.

Filters can be supplied with in single header (SH) or double header (DH). Box or no header (NH) and double flange (DF) can be supplied as well.

Header are 22mm deep to fit most standard installations. Steel Braces are installed downstream to add support for media pack.

Optional expanded mesh faceguard can be installed at downstream or upstream for certain industrial applications like gas turbine and machinery intake systems. Optional gaskets can be installed downstream or upstream.

Intercell Al-Sep - GG Traditional

Secondary/ Medium Filters F6 60-65%, F7 80-85%, F8 90-95%, F9 >95%

Specifications

Model	IC60		IC80		IC90		IC90GT	
	Al-Sep 60-65%		Al-Sep 80-85%		Al-Sep 90-95%		Al-Sep 90-95%	
Nominal Thickness	6"	12"	6"	12"	6"	12"	12"	
Initial Pressure Drop Pa at 2.5m/s for 12" Depth and 1.25m/s for 6" Depth, 3.2m/s for GT models	90		125		140 / 150		125	
Filter Class EN779 / Eurovent 4/4	F6		F7		F8 / F9		F8	
ASHRAE 52.1-1992 Average Synthetic Dust Weight Arrestance	95%		99%		99%		99%	
ASHRAE 52.1-1992 Average Atmospheric Dust Spot Efficiency	60-65%		80-85%		90-95% / >95%		90-95%	
ASHRAE 52.2-2007 MERV	MERV 11		MERV 13		MERV 14 / MERV 15		MERV 14	

Performance data is based on 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

Technical Data

Filter Media

Micro Fibreglass / Synthetic

Enclosing Frame

Galvanised Steel / MDF Particle Board

Sealant

Water based glue / Hotmelt

Options

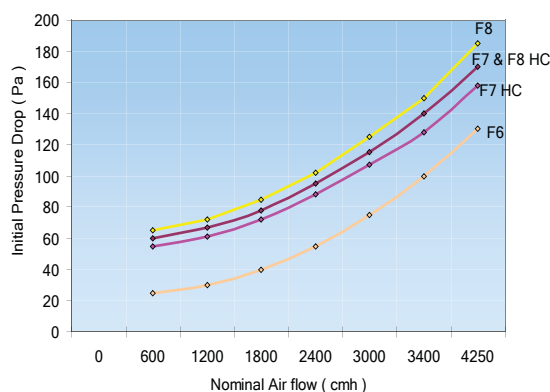
Gaskets downstream or upstream
GT models with Expanded mesh at air downstream

Continuous Operating Temperature	80°C
Maximum Temperature	120°C
HT models peak max temp	250°C
Relative Humidity	90%
Recommended Final Pressure Drop	250-375 Pa
Maximum Final Pressure Drop	450 Pa
Flammability	Class 1

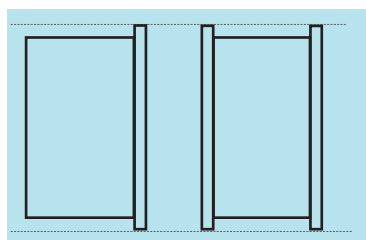
Dimensions

Model	EN770 Filter Grade	Nominal Size L x W x D	Actual Size L x W x D	Rated Air Flow at m ³ /h	Initial Pressure Drop Pa		Media Area m ²		Weight kg
					SC	HC	SC	HC	
Nominal 12" Deep									
IC60	F6	12 x 24 x 12	289 x 593 x 290	1700	100	90	5.1	6.2	3.9
		20 x 24 x 12	492 x 593 x 290	2975	100	90	8.6	10.4	5.4
		24 x 24 x 12	593 x 593 x 290	3400	100	90	10.3	12.6	6.4
IC80	F7	12 x 24 x 12	289 x 593 x 290	1700	140	130	x	6.2	3.9
		20 x 24 x 12	492 x 593 x 290	2975	140	130	8.6	10.4	5.4
		24 x 24 x 12	593 x 593 x 290	3400	140	130	10.3	12.6	6.4
IC90	F8 / F9	12 x 24 x 12	289 x 593 x 290	1700	150	140	5.1	6.2	3.9
		20 x 24 x 12	493 x 593 x 290	2975	150	140	8.6	10.4	5.4
		24 x 24 x 12	593 x 593 x 290	3400	150	140	10.3	12.6	6.4
IC90GT	F8	24 x 24 x 12	593 x 593 x 290	4250	NA	160	NA	12.6	7.4
Nominal 6" Deep									
IC60	F6	12 x 24 x 6	289 x 593 x 150	850	100	90	2.3	3.2	2.0
		20 x 24 x 6	492 x 593 x 150	1450	100	90	4.2	5.3	2.9
		24 x 24 x 6	593 x 593 x 150	1700	100	90	5.2	6.3	2.9
IC80	F7	12 x 24 x 6	289 x 593 x 150	850	140	130	2.3	3.2	2.0
		20 x 24 x 6	492 x 593 x 150	1450	140	130	4.2	5.3	2.9
		24 x 24 x 6	593 x 593 x 150	1700	140	130	5.2	6.3	3.8
IC90	F8 / F9	12 x 24 x 6	289 x 593 x 150	850	150	140	2.3	3.2	2.0
		20 x 24 x 6	492 x 593 x 150	1450	150	140	4.2	5.3	2.9
		24 x 24 x 6	593 x 593 x 150	1700	150	140	5.2	6.3	3.8

GT filter models are for Gas Turbine high airflow applications with high capacity rated. It comes with an expanded mesh at air downstream.
HT filter models are high temperature models with red silicone sealant of continuous temperature up to 250°C.
HC High Capacity rated for longer service lifespan.
All filters can operate up to 125% of the rated airflow.



Header Option



Single Header (SH) Double Header (DH)