



iPUR®

Flanged Coalescing and Particulate Filters

+ Features and Benefits

ENERGY EFFICIENT BY DESIGN:

*ultra-low differential pressure
for all elements and cartridges*

STANDARD iMAT®:

*true zero air loss condensate technology
can save up to \$600 per year*

MAXIMUM RELIABILITY:

*powder-coated steel housing with unique vessel
design and differential pressure gauge*



COMPREHENSIVE LINE:

*from 1,900 to 21,000 scfm and up to 200 psig
with the widest range of filter grades available*

SIMPLIFIED MAINTENANCE:

*easy to access top load design with
super simple, plug and play element holders*

+ Operating Principle

1 Connections

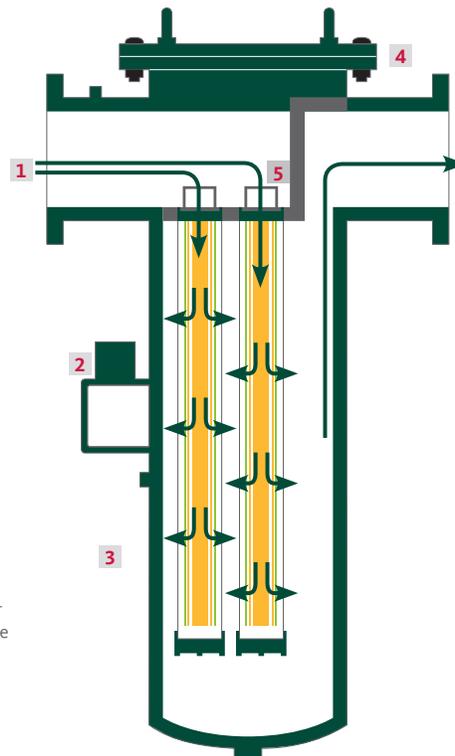
The filter housing has two one-level compressed-air connections enabling easy installation in existing pipeworks.

2 Differential pressure gauge

To be able to also optically monitor the contamination degree of the filter elements when the housings are closed, all filters can be optionally equipped with a differential manometer which is readable from both sides. The scaled indication can be used for the direct energy-cost analysis.

3 Housings

ICP flanged-filter housings receive full-bath galvanising according to the high-temperature method. Prior to the galvanising process, the housings are subject to alkaline degreasing and pickling, which results in high-grade inside and outside surface protection.



4 Easy to maintain

With regards to the iPUR® flanged filters, the replacement of filter elements is easily undertaken from the top. The inconvenient dismantling of condensate drains is therefore no longer necessary. To open the filter housing, only the upper blank flange is loosened, except for one remaining flange screw which is then used like a pivot joint. In smaller device sizes, the blank flange can easily be fully removed.

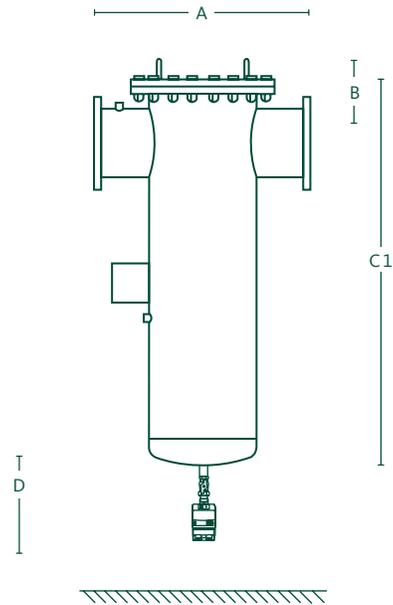
5 Filter element

The large surface of the filter elements reduces the air velocity to energetically favourable values. The cavity volume of the polyfibre filter material of 98% ensures lowest pressure loss. With this, the cross-sectional area free for the through-flow is many times larger in iPUR® filters.

iPUR® Flange Coalescing and Particulate Filters

with iMAT® and connection kit with differential pressure gauge

- Energy efficient filter elements
- Performance-optimized volume flow increased by 30%
- Designed according to ASME Sec. VII, Div. 1
- Fully powder coated vessels
- UM stamp standard and CRN optional
- ANSI Flanges
- iMAT® drain standard
- Max. operating temperature 140°F
- Max. operating pressure 200 psig



iPUR®	iFIL 1900	iFIL 2800	iFIL 3800	iFIL 6500	iFIL 7500	iFIL 9300	iFIL 13000	iFIL 21000
Pipe size (ANSI)	4"	4"	6"	6"	8"	8"	10"	12"
Flow rate (scfm)	1900	2800	3800	6500	7500	9300	13000	21000
Element Size	88*							
Dimension data								
A (inches)	21.25	21.25	23.50	23.75	28.00	30.31	34.65	38.98
B (inches)	6.88	7.13	8.00	8.25	9.50	9.75	9.88	10.87
C1 (inches)	46.50	47.38	46.88	50.38	53.00	56.34	60.18	64.26
D (inches)	13.00	18.00	18.00	18.00	18.00	18.00	18.00	18.00
Weight (lbs)	195	266	283	328	534	623	727	825

* ELEMENT GRADE	ELEMENT TYPE	MICRON RATING	OIL CARRYOVER	OIL VAPOR	DRY Δ PRESSURE (psid)	WET Δ PRESSURE (psid)	APPROVALS
Grade C	Coarse	25 µm	5 mg/m³	-	.44	.73	ASME Coded Vessel with "UM" Stamp as standard (CRN Optional)
Grade G	General	5 µm	1 mg/m³	-	.58	1.74	
Grade F	Fine	1 µm	.1 mg/m³	-	.73	2.17	
Grade S	Superfine	.01 µm	.01 mg/m³	-	.87	2.9	
Grade A	Activated Carbon	.01 µm	-	.003 mg/m³	1.45	-	

Correction Factor

Operating Pressure (psig)	20	40	60	80	90	100	110	120	130	140	160	180	200
Correction Factor	.30	.48	.65	.82	.91	1.00	1.09	1.17	1.26	1.35	1.52	1.70	1.87

Subject to technical errors, changes, omissions and/or corrections without prior notice.