AIRCOM SERIES KNOCK-OUT POT / INLET FILTER

CONNECTION SIZE: 1” TO 18 "
FLOW RATES: 135 TO 4000 SCFM

Aircom Technologies’s **KNOCK-OUT POT / INLET** Filter Series are designed to effectively removes liquids an/or particulate from the process gas of industrial equipment.

CONSTRUCTION

Standard operating pressure and temperature of all models is 15 PSIG and 300 degrees Fahrenheit. Inlet/Outlet connections are 150# ANSI raised face slip-on flanges. The vessel design provides for mechanical separation of mist, liquid and other contaminants into a large volume sump area, reducing the contaminant load and increasing the filter element life.

OPERATION

The separation of entrained materials is accomplished in three stages. The first stage removes the bulk liquid by the centrifugal motion of the gas stream as it enters the vessel through a tangential inlet. In the second stage, a demister removes small liquid particles of mist and also acts as a pre-filter for particulate. Properly selected, conventional pads are ideal in most applications. At the moderate vapor velocity and liquid load for which a pad is designed, liquid trying to escape collects in a thin, flooded layer at the bottom of the pad. Bubbling causes re-entraininment of liquid, compounding the mist load. Virtually all droplets large enough for the wire to capture are eliminated in the lower half of the pad. The upper part, inactive as yet, is available for increased loads. The third stage is a particulate filter which removes solids with a standard efficiency of 98% of 5 microns.

ELEMENT CONSTRUCTION

Radial Fin filter element standard construction includes a durable felted polypropylene medium rated at 98% efficiency on 4 microns and larger. When conditions demand, alternate media of synthetic fibers or glasses can be supplied from .3 to 100 microns nominal retention.

FEATURES

- ✔ TANGENTIAL INLET
- ✔ DEMISTER PAD
- ✔ LARGE DIRT AND LIQUID RESERVOIR
- ✔ 3” DRAIN AND 3/4” VENTS
- ✔ CONNECTIONS FOR SIGHT GLASS AND LEVEL SWITCHES
- ✔ QUICK OPEN LID FOR EASE OF FILTER CHANGE OUT

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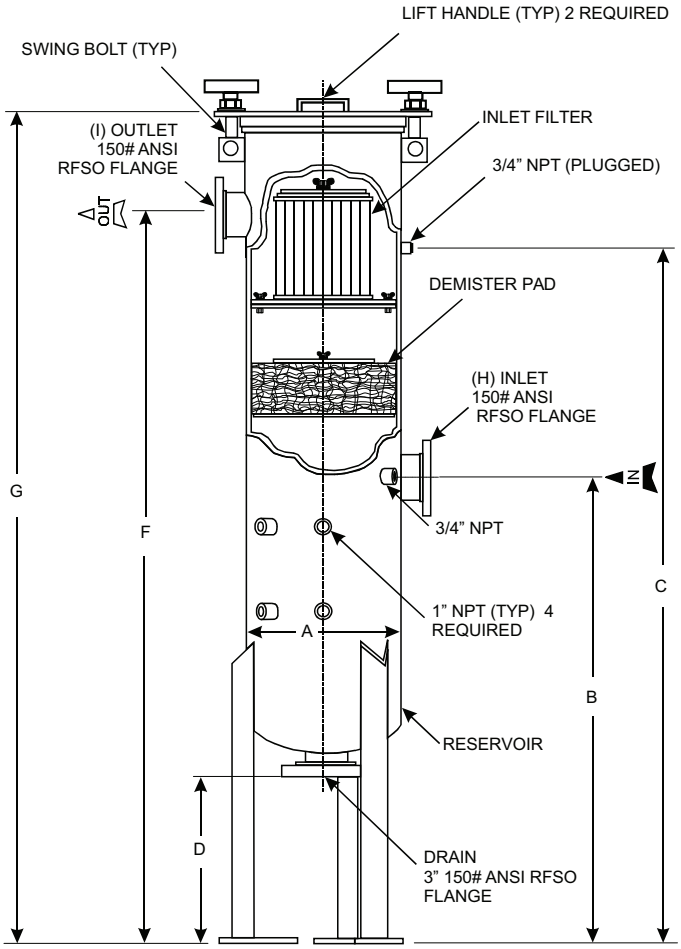

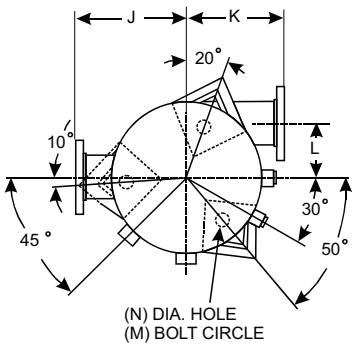

TOP VIEW
W/O LID

PLEASE FILL IN WITH AVAILABLE DATA.

PROCESS CONDITIONS

OPERATING TEMPERATURE: ____°F(____°C)
OPERATING PRESSURE _____ psia

GAS CONDITIONS

GAS TYPE:_____
DENSITY:_____lb/cu.ft.
SG:_____
MAX FLOW RATE:_____cu.ft/min ☐ ACFM
☐ SCFM

LIQUID CONDITIONS

LIQUID TYPE:_____
DENSITY: _____ lb/cu.ft.
SPECIFIC GRAVITY: _____
LIQUID LOAD _____ lb/hr
VISCOSITY: _____ cp

OTHER INFORMATION

SOLIDS PRESENT: yes ☐ no ☐
HIGHLY VISCOUS: yes ☐ no ☐
% REMOVAL OF_____ μ PARTICLES

SPECIFICATIONS

MODEL	FLOW (SCFM)	ELEMENT NO	DEMISTER NO	A	B	C	D	F	G	H	I	J	K	L	M	N	RESERVOIR VOL. (GAL)	SHIPPING WEIGHT (LBS)
U8	150	M515-142	DP084-40	8 5/8	35	45	15	51	57	2	2	8	8	2 7/8	7 ¾	11/16	3	200
U12	350	M595-142	DP124-40	12 ¾	41	59	15	63	71	3	3	10 ½	10 ½	4 5/8	9 ¼	1	9	300
U16	600	SPM195	DP164-40	16	41	69	15	73	81	4	4	14	14	5 7/16	12	1	15	450
U24	1500	M558-142	DP244-40	24	47	75	15	81	93	6	6	18	18	8 11/16	21 ½	1	40	700
U30	2700	M443-142	DP304-40	30	55	91	15	97	111	8	8	21	21	10 11/16	26 ½	1	80	1000
U36	3700	M137-142	DP364-40	36	64	108	15	114	128	10	10	24	24	12 5/8	33 ½	1	150	1400

DIMENSIONS AND CONNECTION SIZES ARE STANDARD, OPTIONAL CONFIGURATIONS AND CONNECTION SIZES ARE AVAILABLE.