

ACTIVATED CARBON TOWER - TACm

DESCRIPTION

TACm activated carbon towers have been developed for separating oil vapours from compressed air⁽¹⁾ (dry type separation). TACm series is made from aluminium. Oil vapours as well as some other hydrocarbons are separated due to adsorption process. Super fine coalescing filter is required upstream TACm and 1µm dust filter is recommended downstream to intercept activated carbon dust.

APPLICATIONS⁽²⁾

- Automotive
- Electronics
- Food & Beverage
- Chemical
- Petrochemical
- Plastics
- Paint
- General industrial application

⁽¹⁾For any other technical gas please contact us or your local dealer

⁽²⁾TACm activated carbon towers can be used in variety of applications. For applications not listed please contact us or your local dealer.



ACTIVATED CARBON TOWER RATING ACCORDING TO ISO8573-1

Solid particles	Water	Oil
-	-	0 / 1

TECHNICAL SPECIFICATION

Operating temperature	1,5 - 50 °C	35 – 122 °F
Operating pressure	0 - 16 bar(g)	0 - 232 psi
Differential pressure	Approx. 100mbar	0,29 psi
Oil vapour content (nominal) ⁽³⁾	< 0,003 mg/m ³	

⁽³⁾at inlet concentration < 0,01 mg/m³, liquid content should be removed in advance by fine coalescing filtration

MATERIALS

Housing material	Aluminium
Fittings, Screws	Steel (Galvanized, Stainless)
Sealing	NBR
Outside corrosion protection Column	Powder paint coated (Epoxy-polyester base)
Corrosion protection top/bottom block	Anodised
Lubricant	Shell cassida grease RLS 2

SIZES

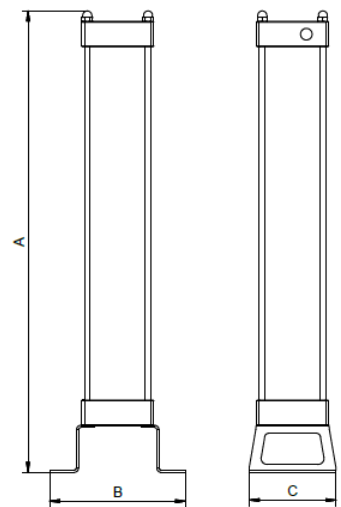
ADSORBER HOUSING	CONN. SIZE ⁽⁵⁾	FLOW CAPACITY ⁽⁴⁾		DIMENSIONS			ACTIVATED CARBON	VOLUME	WEIGHT
		[m ³ /h]	[scfm]	A[mm]	B[mm]	C[mm]			
TACm 6	G 3/8"	6	3,5	492	164	130	0,5	1,3	4
TACm 12	G 3/8"	12	7,1	687	164	130	1	2,2	5,5
TACm 23	G 3/8"	24	14,1	1077	164	130	1,8	3,9	8,2
TACm 35	G 3/8"	36	21,2	1466	164	130	2,7	5,6	11,1
TACm 56	G 3/4"	60	35,3	1082	212	160	4,8	10	17,4
TACm 70	G 3/4"	75	41,1	1277	212	160	5,8	12,2	20,3
TACm 105	G 3/4"	117	61,8	1677	212	160	8	16,6	26
TACm 150	G 1"	150	88,9	1393	328	240	13	26,3	50
TACm 200	G 1"	200	117,7	1608	328	240	15,5	31,2	57,5

⁽⁴⁾Refers to 1bar(a) and 20°C at 7 barg operating pressure and inlet temperature 20°C

⁽⁵⁾Standard connections: inlet top left, outlet bottom right

PRESSURE EQUIPMENT DIRECTIVE PED 2014/68/EU (Fluid group 2)

TACm 6 - 12	Not required
TACm 23-70	Category 1, Module A
TACm 105-200	Category 2, Module H



CORRECTION FACTORS

To calculate the correct capacity of a given tower based on actual operating conditions, multiply the nominal flow capacity by the appropriate correction factor(s).

CORRECTED CAPACITY = NOMINAL FLOW CAPACITY x C_{OP} x C_{OT}

OPERATING PRESSURE

[bar]	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
[psi]	29	44	58	72	87	100	115	130	145	160	174	189	203	218	232
C _{OP}	0,38	0,5	0,63	0,75	0,88	1	1,13	1,25	1,38	1,50	1,63	1,75	1,88	2,0	2,13


OPERATING TEMPERATURE

[°C]	20	25	30	35	40	45	50
C _{OT}	1	0,98	0,97	0,92	0,86	0,75	0,6

MAINTENANCE

Replace activated carbon every 6 months or sooner if required.

INFORMATION IN THIS DOCUMENT IS SUBJECT TO CHANGE WITHOUT NOTICE

	Our quality management system is certified by BUREAU VERITAS in conformity with ISO 9001:2015 Reg. number: 200285
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