

TAC SERIES

ACTIVATED CARBON TOWER

operating pressure range **0-16 bar**

temperature oper. range **1,5 to 45°C**

High pressure version available on request.



APPLICATIONS

- automotive
- electronics
- food & beverage
- chemical
- petrochemical
- plastics
- paint
- general industrial application

DESCRIPTION

TAC activated carbon towers have been developed for separating oil vapours from compressed air (dry type separation). TAC series is made from high quality carbon steel. Flow distributors ensure uniform distribution of air flow through activated carbon bed. Oil vapours as well as some other hydrocarbons are separated due to adsorption process. Super fine coalescing filter is required upstream TAC and 1 µm dust filter is recommended downstream to intercept activated carbon dust. High pressure version is available on request.

TECHNICAL DATA - TAC

Filter housing size	Pipe size	Operating pressure	Flow rate at 7 bar(g), 20°C		Dimensions [mm]			Mass	Cartridge number
	inch		Nm³/h	scfm	A	B	C		
TACm 6	3/8	16	6	3,5	404	188	100	3,5	1 x ø80
TACm 12	3/8	16	12	7	638	188	100	5,3	2 x ø80
TACm 23	3/8	16	24	14,1	1106	188	100	6,5	4 x ø80
TACm 35	3/8	16	36	21,1	1574	188	100	12	6 x ø80
TACm 56	1/2	16	60	35,3	1106	270	148	15	4 x ø129
TACm 70	1/2	16	75	44,1	1340	270	148	18	5 x ø129
TACm 105	1/2	16	105	61,8	1808	270	148	22	7 x ø129
TAC 10	3/4	16	100	59	1369	300	261	44	-
TAC 18	1	16	175	103	1380	300	315	51	-
TAC 30	1	16	275	162	1391	338	370	69	-
TAC 47	1 1/2	16	475	280	1466	432	449	110	-
TAC 94	2	16	900	530	1485	574	580	186,5	-
TAC 150	2	16	1500	882	1586	712	724	310	-
TAC 200	3	16	2200	1294	1631	910	852	440	-
TAC 240	3	16	2800	1646	1656	1010	952	586	-
quality class - solids (ISO 8573-1)									-
quality class - water (ISO 8573-1)									-
quality class - oils (ISO 8573-1)									0/1
pressure drop - new element-dry [mbar / psi]									20 / 0,29
filter media									act. carbon
residual oil vapour content (nominal) [mg/m³]									<0,003

CORRECTION FACTORS

Operating pressure [bar]	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Operating pressure [psi]	29	44	58	72	87	100	115	130	145	160	174	189	203	218	232
Correction factor	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

CORRECTION FACTORS

Operating temperature [°C]	20	25	30	35	40	45	50	55	60
Correction factor	1	0,98	0,97	0,92	0,86	0,75	0,60	-	-

Replace activated carbon every 12 months or sooner if required. Check residual oil content with oil indicator monthly.

