

Quality Air Solutions

Activated Carbon Tower



Ultimate oil removal

The high efficiency carbon filter is capable of removing oil vapour and odour from compressed air. The activated carbon towers will, by the use of adsorption, reduce the residual oil content to lower than 0.003 mg/m³ at 35°C and 7 bar inlet pressure. The pressure drop is low and stays minimal during the lifetime of the filter. Within the specialised pharmaceutical, food and beverage, electronic and other industries where air purity is critical, there is often a requirement to remove residual oil vapours and odours from the compressed air supply.

Only an activated carbon tower is able to provide class 1 clean air (acc. ISO 8573-1).



YOUR BENEFITS:

- Maximum oil vapour removal
- Pressure drop stays low
- Very high reliability
- Easy maintenance



Technical specifications

QDT

FILTER SIZE	Nominal capacity ⁽¹⁾		Connections G or NPT	Dimensions						Weight	
				H height		L length		W width			
	l/s	cfm		mm	in	mm	in	mm	in	kg	lbs
QDT 20	20	42	1/2	490	19	223	9	190	7	10	22
QDT 45	45	95	1	715	28	223	9	190	7	15	33
QDT 60	60	127	1	840	33	223	9	190	7	18	40
QDT 95	95	201	1	715	28	387	15	190	7	29	64
QDT 125	125	265	1 1/2	840	33	387	15	190	7	34	75
QDT 150	150	318	1 1/2	715	28	551	22	190	7	42	93
QDT 185	185	392	1 1/2	840	33	551	22	190	7	50	110
QDT 245	245	519	1 1/2	840	33	715	28	190	7	67	148
QDT 310	310	657	1 1/2	840	33	879	35	190	7	84	185

⁽¹⁾ At reference conditions:
Inlet pressure 7 bar(g)/102 psig, inlet temperature 35°C/95°F

For other compressed air inlet temperatures, please multiply the filter capacity by the following correction factor (Kt):

Inlet temperature °C	20	25	30	35	40	45	50	55	60
Inlet temperature °F	68	77	86	95	104	113	122	131	140
Correction factor	1.67	1.43	1.25	1	0.71	0.56	0.37	0.25	0.19

For other compressed air inlet pressures, please multiply v the filter capacity by the following correction factor (Kp):

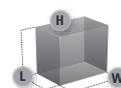
Inlet pressure bar	3	4	5	6	7	8	9	10	11	12	13
Inlet pressure psi	44	58	73	87	102	116	131	145	160	174	189
Correction factor	0.57	0.77	0.83	1	1	1	1	1.05	1.05	1.11	1.18

Example:

What is the capacity of a QDT 60, working at 8 bar(g)/116 psig with an inlet temperature of 40°C/104°F?

$K_p = 1$ $K_t = 0.71$

Actual capacity = $60 \times 1 \times 0.71 = 42.6$ l/s or 90.3 cfm



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Never use compressed air as breathing air without prior purification in accordance with local legislation and standards.

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