

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



Gotek Vietnam Ltd.
www.gotek.com.vn
(090) 695 6595 or (093) 820-5599

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):

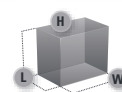
| | | | | | | | | | | | |
|--------------------|------|------|------|----|-----|-----|-----|------|------|------|------|
| Inlet pressure bar | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| Inlet pressure psi | 44 | 58 | 73 | 87 | 102 | 116 | 131 | 145 | 160 | 174 | 189 |
| Correction factor | 0.57 | 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



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

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