

## Technical Data of Andair Gasfilter Type GF 75

|                                                                                          |                       |              |
|------------------------------------------------------------------------------------------|-----------------------|--------------|
| <b>1. Homologation</b>                                                                   | No.                   | BZS T 92-009 |
| nominal air rate                                                                         | m <sup>3</sup> /h     | 75           |
| pressure drop                                                                            | Pa                    | 450 - 550    |
| <b>2. Activated carbon filter (4 Elements)</b>                                           |                       |              |
| activated carbon homologation                                                            | No.                   | BZS T 88-001 |
| specific carbon volume, theoretical                                                      | l/(m <sup>3</sup> /h) | 0,44         |
| specific carbon volume, effective                                                        | l/(m <sup>3</sup> /h) | 0,481        |
| carbon volume, theoretical                                                               | l                     | 33,0         |
| carbon volume, effective                                                                 | l                     | 36,0         |
| bed thickness                                                                            | mm                    | 152          |
| average flow velocity                                                                    | cm/s                  | 8,79         |
| contact time                                                                             | s                     | 1,65         |
| max. carbon humidity                                                                     | %                     | 3            |
| carbon weight approx.                                                                    | kg                    | 18,68        |
| gas separation: all known war gases (see page 1.05.076)                                  |                       |              |
| spring system of the activated carbon filter bed:                                        |                       |              |
| total force on the carbon bed with 10 mm expansion                                       | N                     | 4'400        |
| spring pressure on the carbon bed with 10 mm expansion                                   | mbar                  | 208          |
| spring distance to carbon bed height                                                     | %                     | 28,2         |
| <b>3. Aerosol filter (4 Elements)</b>                                                    |                       |              |
| aerosol filter paper homologation                                                        | No.                   | BZS T 98-007 |
| separation in the particle range 0,1-0,3 µm<br>(also after the pressure and shock tests) | %                     | ≥ 99,995     |
| filter area                                                                              | m <sup>2</sup>        | 1,40         |
| flow velocity                                                                            | cm/s                  | 1,49         |
| <b>4. Dust protection (between activated carbon and perforated steel)</b>                |                       |              |
| carbon dust separation with a grain size ≤ 0,3 mm                                        | %                     | ≥ 90         |
| <b>5. Casing tightness</b>                                                               |                       |              |
| gastight in the pressure range                                                           | Pa                    | ± 3'000      |
| <b>6. Casing pressure resistance</b>                                                     |                       |              |
| due to temperature variations in the pressure range                                      | Pa                    | ± 50'000     |
| <b>7. Blast pressure resistance</b>                                                      |                       |              |
| of the casing and aerosol filter                                                         |                       |              |
| peak over pressure                                                                       | bar                   | 0,78         |
| impulse                                                                                  | Pa.s                  | 279          |
| <b>8. Shock resistance (basic protection)</b>                                            |                       |              |
| the gasfilter is tested in the 3 main axis in ± directions                               |                       |              |
| velocity                                                                                 | m/s                   | 1,0          |
| acceleration                                                                             | m/s <sup>2</sup>      | 125 (12,5 g) |

