

# Panel goffered prefilters of type PGPF

**Panel prefilters of type PGPF** are used for cleaning of supply and recirculation air in systems of general ventilation and air-conditioning in rooms of various purposes in household, administrative and industrial buildings.

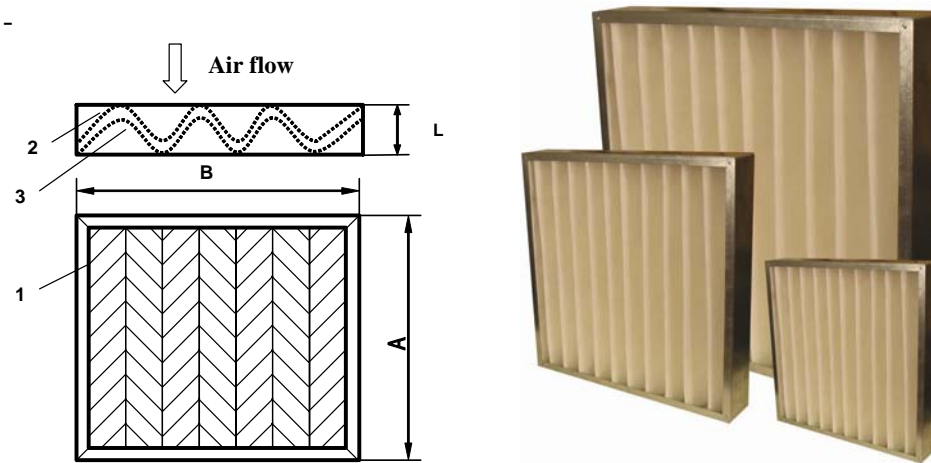


Fig. 1 Scheme of filter PGPF.

## CHARACTERISTICS

Table 1

| Class of filter<br>PGPF by EN 779 | Specific air flow,<br>$\text{m}^3/\text{h}\cdot\text{m}^2$ | Pressure drop, Pa |       |       |
|-----------------------------------|--|-------------------|-------|-------|
|                                   |  | Initial           |       | Final |
|                                   |  | Depth, L, mm      |       |       |
|                                   |  | 48                | 100   |       |
| G3 (EU3)                          | 7000-10000   | 40-70             | 30-55 | 250   |
| G4 (EU4)                          | 7000-10000   | 50-80             | 40-60 | 250   |

The filters are operational and keep their characteristics at air temperature from  $-40^{\circ}\text{C}$  to  $+90^{\circ}\text{C}$ .

## BASIC DIMENSION-TYPES

Table 2

| Filter index<br>PGPF  | Dimensions, mm |         |         | Air flow,<br>m <sup>3</sup> /h | Weight,<br>kg |
|---|----------------|---------|---------|--------------------------------|---------------|
|   | Height A       | Width B | Depth L |                                |               |
| 3(4)050   | 500            | 500     | 48      | 1750-2500                      | 1,4           |
| 3(4)052   | 592            | 592     | 48      | 2500-3500                      | 1,7           |
| 3(4)051   | 592            | 287     | 48      | 1250-1750                      | 1,0           |
| 3(4)054   | 592            | 490     | 48      | 2000-2900                      | 1,4           |
| 3(4)053   | 287            | 490     | 48      | 1000-1800                      | 0,9           |
| 3(4)056   | 610            | 610     | 48      | 2600-3700                      | 1,8           |
| 3(4)055   | 610            | 305     | 48      | 1300-1850                      | 1,1           |
| 3(4)0501  | 287            | 287     | 48      | 570-850                        | 0,5           |
| 3(4)0505  | 305            | 305     | 48      | 650-930                        | 0,6           |
| 3(4)058   | 892            | 287     | 48      | 1800-2500                      | 1,7           |
| 3(4)059   | 892            | 490     | 48      | 3100-4400                      | 2,8           |
| 3(4)057   | 892            | 592     | 48      | 3700-5300                      | 3,4           |
| 3(4)100   | 500            | 500     | 100     | 1750-2500                      | 2,5           |
| 3(4)102   | 592            | 592     | 100     | 2500-3500                      | 2,8           |
| 3(4)101   | 592            | 287     | 100     | 1250-1750                      | 1,8           |
| 3(4)104   | 592            | 490     | 100     | 2000-2900                      | 2,5           |
| 3(4)103   | 287            | 490     | 100     | 1000-1800                      | 1,6           |
| 3(4)106   | 610            | 610     | 100     | 2600-3700                      | 3,0           |
| 3(4)105   | 610            | 305     | 100     | 1300-1850                      | 1,9           |
| 3(4)1001  | 287            | 287     | 100     | 570-850                        | 1,6           |
| 3(4)1005  | 305            | 305     | 100     | 650-930                        | 0,9           |
| 3(4)108   | 892            | 287     | 100     | 1800-2560                      | 2,8           |
| 3(4)109   | 892            | 490     | 100     | 3100-4400                      | 3,8           |
| 3(4)107   | 892            | 592     | 100     | 3700-5300                      | 4,1           |
| Other dimension-types of filters can be manufactured by request |                |         |         |                                |               |

### GENERAL DESIGN

Filters PGPF (fig.1) consists of framework (1) made of cardboard or galvanized steel, inside which goffered filtering medium (2) is laid, supported on the air outlet side by mesh of goffered shape (3).

### MAINTENANCE

When filters are in operation it is necessary to check their pressure drop by readings of manometer attached to connecting pipes, arranged in walls of air cleaning chambers before and after filters.

Upon reaching pressure difference recommended for this filter, or based on available system pressure, it is necessary to replace filters.