

Viledon® pocket filters are made from non-breaking synthetic-organic fibers and microfibers. The pockets are welded and foamed into the front frame in a leakproof configuration so as to provide maximized security against dust breakthrough. Their high cost-efficiency is rooted in low average pressure drops and optimized aerodynamics coupled with full utilization of the filtering area available.

energy efficiency

### **COMPACT | COARSE DUST**





| SPECIFICATIONS                  |                      |
|---------------------------------|----------------------|
| Filter medium                   | Polyester            |
| Recommended final pressure drop | 250 Pa               |
| Thermal stability               | 70 °C                |
| Moisture resistance             | 100 % rel. hum.      |
| Frame                           | Polyurethane         |
| Fire class                      | F1 acc. to DIN 53438 |
|                                 |                      |
|                                 |                      |

### Special features of all Compact coarse dust pocket filters

- Progressively structured high-performance nonwovens made from non-breaking synthetic-organic fibers.
- Low pressure difference and a high dust storage capacity guarantee a very long service life and high efficiency of the filter system.
- · Free of glass-fibers.
- · Non-corroding materials.
- · Moisture-resistant up to 100 % rel. humidity.
- Self-extinguishing according to DIN 53438 (fire class F1)
- Microbiologically inactive materials and the design meet all the criteria laid down in VDI Guideline 6022 "Hygiene requirements for ventilation and air-conditioning systems and units".
- High functional dependability thanks to the leakproof welded configuration of the filter pockets, foam-sealed into a robust PUR front frame.
- Leak-free aerodynamic spacers ensure an optimal flow through the pockets.

### Application

- Compact coarse dust pocket filters are used in intake, exhaust and recirculating air filtration for air-conditioning systems of all kinds.
- As prefilters for fine and ultra-fine filters in industrial processes (metalworking, chemicals, pharmaceuticals, food and beverages, optics, electronics, etc.), in ventilation and air-conditioning systems, in paint shops/booths and in turbomachinery.
- For the filtration of process air with high dust loading or coarse particles.

### Features and benefits of G 35 series

- The robust filter series for heavy coarse dust loadings, even at high air flow rates. The filters achieve medium clean air quality coupled with particularly cost-efficient operating behavior and low energy costs.
- High functional dependability even when subjected to extreme humidity and moisture.
- By reason of their shorter pockets, the G 35 S provide a space-saving solution for systems in which the G 35 SL long-pocket filters cannot be used due to space constraints.
- For applications with extremely high dust quantities, the G 35 SEL with 8 long-pockets is recommended.

### **Delivery notes**

Customized dimensions are available on request.

### EN 779:2012 ISO 16890

| ARTICLE      | ARTICLE<br>NUMBER | DIMENSIONS<br>(W×H×D)<br>[mm] | NUMBER OF<br>POCKETS | FILTER AREA<br>[m²] | NOMINAL<br>VOLUME FLOW<br>[m³/h] | DUST HOLDING<br>CAPACITY<br>(AC FINE/300 PA)<br>[g] | INITIAL<br>PRESSURE DROP<br>[Pa] | FILTER CLASS<br>ACC. TO<br>EN 779:2012 | CLASS TO<br>ISO 16890 | INITIAL GRAV.<br>ARRESTANCE<br>[%] | PARTICULATE MATTER EFFICIENCY ISO ePM10 [%] |
|--------------|-------------------|-------------------------------|----------------------|---------------------|----------------------------------|---|----------------------------------|--|-----------------------|------------------------------------|---|
| G 35 S 1/1   | 7515413           | 592×592×330                   | 5                    | 2.0                 | 3,400                            | 3,000   | 20                               | G3                                     | ISO coarse 65%        | 67                                 | 44  |
| G 35 S 5/6   | 7521289           | 492×592×330                   | 4                    | 1.6                 | 2,700                            | 2,400   | 20                               | G3                                     | ISO coarse 65%        | 67                                 | 44  |
| G 35 S 1/2   | 7521389           | 289×592×330                   | 3                    | 1.2                 | 2,000                            | 1,800   | 20                               | G3                                     | ISO coarse 65%        | 67                                 | 44  |
| G 35 SL 1/1  | 7579317           | 592×592×650                   | 5                    | 4.0                 | 4,250                            | 6,500   | 30                               | G3                                     | ISO coarse 60%        | 64                                 | 42  |
| G 35 SL 5/6  | 7599437           | 492×592×650                   | 4                    | 3.2                 | 3,400                            | 5,200   | 30                               | G3                                     | ISO coarse 60%        | 64                                 | 42  |
| G 35 SL 1/2  | 7580138           | 289×592×650                   | 3                    | 2.4                 | 2,500                            | 3,900   | 30                               | G3                                     | ISO coarse 60%        | 64                                 | 42  |
| G 35 SL 1/4  | 7580238           | 289×289×650                   | 4                    | 1.5                 | 1,500                            | 2,400   | 30                               | G3                                     | ISO coarse 60%        | 63                                 | 42  |
| G 35 SE 1/1  | 8929206           | 592×592×510                   | 8                    | 4.7                 | 4,250                            | 7,500   | 40                               | G3                                     | ISO coarse 65%        | 66                                 | 43  |
| G 35 SEL 1/1 | 53307071          | 592×592×650                   | 8                    | 6.2                 | 4,250                            | 9,000   | 45                               | G3                                     | ISO coarse 60%        | 63                                 | 41  |

Subject to technical changes.



## COMPACT | COARSE DUST

| Polyester            |
|----------------------|
| 250 Pa               |
| 70 °C                |
| 100% rel. hum.       |
| Polyurethane         |
| F1 acc. to DIN 53438 |
|                      |



### Features and benefits of F 40/45 series

- Stable arrestance performance even with high coarse dust loadings and high air flow rate.
- F 40 and F 45 SEL are particularly energy-efficient, thus ensuring reduced energy costs and downsized CO, emissions.
- High functional reliability, even under extremely moist and wet operating conditions.
- Thanks to their shorter pockets, F 45 S filters offer a space-saving solution for plants where the use of long-pocket filters would not be possible.
- F 45 R in reverse flow design offers the possibility of a prefilter stage on the raw-gas side and therefore the expansion of the filter system.

### **Delivery notes**

Customized dimensions are available on request.

### EN 779:2012 ISO 16890

| ARTICLE      | ARTICLE<br>NUMBER | DIMENSIONS<br>(W×H×D)<br>[mm] | NUMBER OF<br>POCKETS | FILTER AREA<br>[m²] | NOMINAL<br>VOLUME FLOW<br>[m³/h] | DUST HOLDING<br>CAPACITY<br>(AC FINE/300 PA)<br>[g] | INITIAL<br>PRESSURE DROP<br>[Pa] | FILTER CLASS<br>ACC. TO<br>EN 779:2012 | CLASS TO<br>ISO 16890 | INITIAL GRAV.<br>ARRESTANCE<br>[%] | PARTICULATE MATTER EFFICIENCY ISO ePM10 [%] |
|--------------|-------------------|-------------------------------|----------------------|---------------------|----------------------------------|---|----------------------------------|--|-----------------------|------------------------------------|---|
| F 45 S 1/1   | 7526134           | 592×592×330                   | 5                    | 2.0                 | 3,400                            | 1,700   | 35                               | G4                                     | ISO ePM10 50%         | 71                                 | 52  |
| F 45 S 5/6   | 7528456           | 492×592×330                   | 4                    | 1.6                 | 2,700                            | 1,350   | 35                               | G4                                     | ISO ePM10 50%         | 71                                 | 52  |
| F 45 S 1/2   | 7529267           | 289×592×330                   | 3                    | 1.2                 | 2,000                            | 1,000   | 35                               | G4                                     | ISO ePM10 50%         | 71                                 | 52  |
| F 45 R 1/1*  | 7526134           | 592×592×330                   | 5                    | 2.0                 | 3,400                            | -   | 35                               | G4                                     | ISO coarse 70%        | 70                                 | 49  |
| F 45 R 5/6*  | 7528456           | 492×592×330                   | 4                    | 1.6                 | 2,700                            | -   | 35                               | G4                                     | ISO coarse 70%        | 70                                 | 49  |
| F 45 R 1/2*  | 7529267           | 289×592×330                   | 3                    | 1.2                 | 2,000                            | -   | 35                               | G4                                     | ISO coarse 70%        | 70                                 | 49  |
| F 40 1/1     | 8256138           | 592×592×650                   | 5                    | 4.0                 | 4,250                            | 4,400   | 30                               | G4                                     | ISO ePM10 50%         | 71                                 | 51  |
| F 40 5/6     | 8500259           | 492×592×650                   | 4                    | 3.2                 | 3,400                            | 3,500   | 30                               | G4                                     | ISO ePM10 50%         | 71                                 | 51  |
| F 40 1/2     | 8498114           | 289×592×650                   | 3                    | 2.4                 | 2,500                            | 2,600   | 30                               | G4                                     | ISO ePM10 50%         | 71                                 | 51  |
| F 40 1/4     | 8500359           | 289×289×650                   | 4                    | 1.5                 | 1,500                            | 1,650   | 30                               | G4                                     | ISO ePM10 50%         | 71                                 | 51  |
| F 45 SEL 1/1 | 53457509          | 592×592×650                   | 8                    | 6.2                 | 4,250                            | 5,600   | 50                               | G4                                     | ISO coarse 70%        | 70                                 | 48  |

### **COMPACT | FINE DUST**









| SPECIFICATIONS                  |                        |
|---------------------------------|------------------------|
| Filter medium                   | Polyester (F 50, T 60) |
| Recommended final pressure drop | 450 Pa                 |
| Bursting pressure               | >3,000 Pa              |
| Thermal stability               | 70 °C                  |
| Moisture resistance             | 100% rel. hum.         |
| Frame                           | Polyurethane           |
| Fire class                      | F1 acc. to DIN 53438   |
|                                 |                        |

### Special features of all fine dust Compact pocket filters

High-performing, extremely cost-effective and energy efficient: Viledon® Compact pocket filters offer dependable operating characteristics plus freedom from maintenance over the entire operational lifetime. They constitute an optimum combination of stable arrestance performance for fine dusts, high dust holding capacity, low pressure drop and long operational lifetime.

- Single- or multi-layered progressively structured high-performance nonwovens made from non-breaking synthetic-organic fibers.
- High arrestance, low pressure drop, long operational lifetime, high cost-efficiency.
- Free of glass-fibers, non-corroding, moisture-resistant up to 100% relative humidity, self-extinguishing according to DIN 53438 (fire class F1) and microbiologically inactive. They meet all criteria laid down in VDI Guideline 6022 "Hygiene requirements for ventilation and air-conditioning systems and units".
- High functional dependability thanks to filter pockets welded in a leakproof configuration foamed onto a PUR front frame, with welded-in aerodynamic spacers and a dimensionally stable construction of the entire filter element.

#### F 50 und T 60

### Application

F 50 and T 60 are used for filtering intake, exhaust and recirculating air in air-conditioning systems with stringent requirements for sturdiness and cost-efficiency, e.g.

- in industrial processes (chemicals, pharmaceuticals, food and beverages, optics, electronics, etc.),
- in intake and exhaust air filtration for paint shops,
- in intake air filtration for gas turbines and turbocompressors onshore and offshore (especially T 60),
- for intake and exhaust air filtration in sophisticated air-conditioning technology (hospitals, laboratories, libraries, museums, airports), plus production facilities and factory halls (especially F 50).

### Features and benefits

- T 60 and F 50 pocket filters are robust in continuous operation and achieve superlative performance even during temporary overload operation in terms of high clean air quality.
- Both pocket filter series achieve energy efficiency class A and thus ensure reduced energy costs and downsized CO<sub>2</sub> emissions.

### **Delivery notes**

Customized dimensions are available on request.

EN 779:2012 ISO 16890

**EUROVENT 4/21** 

|                     |                   |                               |                     |                     |                                  |  |  |                             |  | 150 10050             |             |                             |              | — .                  |
|---------------------|-------------------|-------------------------------|---------------------|---------------------|----------------------------------|--|--|-----------------------------|--|-----------------------|-------------|-----------------------------|--------------|----------------------|
|                     |                   | NS NS                         | OF                  | ⋖                   | -0w                              | OING<br>(00 Pa)                                    | DING<br>800 Pa)                                    | PRESSURE                    | SS<br>.2                               |                       |             | CULATE N<br>FFICIENC<br>[%] |              | EFFICIENCY           |
| ARTICLE             | ARTICLE<br>NUMBER | DIMENSIONS<br>(W×H×D)<br>[mm] | NUMBER O<br>POCKETS | FILTER AREA<br>[m²] | NOMINAL<br>VOLUME FLOW<br>[m³/h] | DUST HOLDING<br>CAPACITY<br>(AC FINE/300 P:<br>[g] | DUST HOLDING<br>CAPACITY<br>(AC FINE/800 Pa<br>[g] | INITIAL PRE<br>DROP<br>[Pa] | FILTER CLASS<br>ACC. TO<br>EN 779:2012 | CLASS TO<br>ISO 16890 | ISO<br>ePM1 | ISO<br>ePM2,5               | ISO<br>ePM10 | ENERGY EF<br>CLASS** |
| F 50 1/1            | 7581349           | 592×592×650                   | 5                   | 4.0                 | 4,250                            | 3,200  | -  | 50                          | M5                                     | ISO ePM10 55%         | 7           | 15                          | 58           | А                    |
| F 50 5/6            | 7581449           | 492×592×650                   | 4                   | 3.2                 | 3,400                            | 2,550  | -  | 50                          | M5                                     | ISO ePM10 55%         | 7           | 15                          | 58           | Α                    |
| F 50 1/2            | 7582150           | 289×592×650                   | 3                   | 2.4                 | 2,500                            | 1,900  | -  | 50                          | M5                                     | ISO ePM10 55%         | 7           | 15                          | 58           | Α                    |
| F 50 1/4            | 7582250           | 289×289×650                   | 4                   | 1.4                 | 1,525                            | 1,100  | -  | 50                          | M5                                     | ISO ePM10 55%         | 7           | 15                          | 58           | Α                    |
| F 50 SE 1/1         | 53457510          | 592×592×510                   | 8                   | 4.7                 | 4,250                            | 3,600  | -  | 60                          | M5                                     | ISO ePM10 55%         | 7           | 15                          | 56           | Α                    |
| F 50 SEL 1 /2 horiz | 53473137          | 592×289×650                   | 8                   | 3.0                 | 2,100                            | 1,600  | -  | 60                          | M5                                     | ISO ePM10 55%         | 5           | 14                          | 56           | Α                    |
| F 50 S 1/1*         | 53456360          | 592×592×330                   | 5                   | 2.0                 | 3,400                            | 1,900  | -  | 65                          | M5                                     | ISO ePM10 60%         | 7           | 18                          | 64           |                      |
| T601/1              | 8473449           | 592×592×650                   | 8                   | 6.2                 | 4,250                            | 3,000  | 5,000  | 65                          | M6                                     | ISO ePM10 60%         | 8           | 18                          | 61           | Α                    |
| T 60 5/6            | 8474150           | 492×592×650                   | 4                   | 3.2                 | 2,175                            | 1,600  | 2,550  | 65                          | M6                                     | ISO ePM10 60%         | 8           | 18                          | 61           | Α                    |
| T 60 1/2            | 8474250           | 289×592×650                   | 3                   | 2.4                 | 1,600                            | 1,200  | 1,900  | 65                          | M6                                     | ISO ePM10 60%         | 8           | 18                          | 61           | Α                    |
| T 60 1/2 horiz      | 53471177          | 592×289×650                   | 8                   | 3.0                 | 2,100                            | 1,450  | 2,200  | 65                          | M6                                     | ISO ePM10 60%         | 8           | 18                          | 61           | Α                    |
| T 60 1/4            | 8474350           | 289×289×650                   | 4                   | 1.5                 | 975                              | 750  | 1,150  | 65                          | M6                                     | ISO ePM10 60%         | 8           | 18                          | 61           | Α                    |
| T 60 OG             | 53430681          | 618×578×605                   | 8                   | 5.5                 | 3,925                            | 2,700  | 4,600  | 65                          | M6                                     | ISO ePM10 60%         | 8           | 18                          | 61           | Α                    |

<sup>\*</sup> also available as reverse-flow version

<sup>\*\*</sup> rated at 3,400 m³/h (further information at www.eurovent-certification.com)







### **COMPACT | FINE DUST**

| SPECIFICATIONS                  |                      |
|---------------------------------|----------------------|
| Filter medium                   | Polyolefin           |
| Recommended final pressure drop | 450 Pa               |
| Bursting pressure               | >3,000 Pa            |
| Thermal stability               | 70 °C                |
| Moisture resistance             | 100% rel. hum.       |
| Frame                           | Polyurethane         |
| Fire class                      | F1 acc. to DIN 53438 |
|                                 |                      |



In the intake air systems of gas turbines, T 60 filters can be relied upon
to retain aggressive, abrasive particles, to minimize blade fouling and
erosion, thus enhancing the efficiency and availability of turbomachinery. They give excellent service even under extreme weather
conditions, and in intake air systems on offshore installations, not least
when subjected to increased volume flows.

#### **T90 PRE**

### **Application**

T 90 PRE with proven jetSpin technology are used in intake air filtration for gas turbines and turbocompressors onshore and offshore.

### Features and benefits

 In intake air filtration for gas turbines, T 90 filters can be relied upon to arrest aggressive, abrasive particles, to minimize blade fouling and erosion, and thus to upgrade the efficiency and availability of turbomachinery.

### T 90, MF 90 and MF 95

### **Application**

T 90, MF 90 and MF 95 filters are used for intake, exhaust and recirculating air filtration in air-conditioning systems with special requirements for arrestance performance, e. g.

- in sophisticated air-conditioning technology (hospitals, laboratories, libraries, museums, airports, etc.),
- in industrial processes (chemicals, pharmaceuticals, food and beverages, optics, electronics, etc.),
- as prefilters for EPA | HEPA | ULPA filters (MF 90 and MF 95),
- as downstream "police filters" in dust removal systems.

### Features and benefits

- T 90, MF 90 and MF 95 pocket filters featuring Nano jetSpin technology provide a sustainedly high level of mechanical filtering performance under all duty conditions. The advantage for the user: maximized operational reliability.
- The filters meet the toughest of requirements in terms of fine filtration and create very high clean air quality, thus making a crucial contribution to cost-efficient operation of sensitive lines and processes.

### **Delivery notes**

Customized dimensions are available on request.

EN 779:2012 ISO 16890

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|              |                   | NS                            | OF                  | ⋖                   | MO-                              | 00 Pa)   | .DING<br>800 Pa)                                   | SSURE                            | SS                                     |                       | PARTICULATE MATTER EFFICIENCY [%] |               |              | EFFICIENCY          |
|--------------|-------------------|-------------------------------|---------------------|---------------------|----------------------------------|--|--|----------------------------------|--|-----------------------|-----------------------------------|---------------|--------------|---------------------|
| ARTICLE      | ARTICLE<br>NUMBER | DIMENSIONS<br>(W×H×D)<br>[mm] | NUMBER O<br>POCKETS | FILTER AREA<br>[m²] | NOMINAL<br>VOLUME FLOW<br>[m³/h] | DUST HOLDING<br>CAPACITY<br>(AC FINE/300 P.<br>[g] | DUST HOLDING<br>CAPACITY<br>(AC FINE/800 Pa<br>[g] | INITIAL PRESSURE<br>DROP<br>[Pa] | FILTER CLASS<br>ACC. TO<br>EN 779:2012 | CLASS TO<br>ISO 16890 | ISO<br>ePM1                       | ISO<br>ePM2,5 | ISO<br>ePM10 | ENERGY EF<br>CLASS* |
| T 90 PRE 1/1 | 53449490          | 592×592×650                   | 12                  | 9.0                 | 4,250                            | 1,900  | 3,300  | 80                               | M6                                     | ISO ePM10 75%         | 38                                | 47            | 77           |                     |
| T 90 PRE 1/2 | 53449491          | 289×592×650                   | 4                   | 3.1                 | 1,450                            | 650  | 1,100  | 80                               | M6                                     | ISO ePM10 75%         | 38                                | 47            | 77           |                     |
| T 90 1/1     | 53444184          | 592×592×650                   | 12                  | 9.0                 | 4,250                            | 1,800  | 3,000  | 115                              | F7                                     | ISO ePM2,5 70%        | 65                                | 74            | 91           | В                   |
| T 90 5/6     | 53444180          | 492×592×650                   | 6                   | 4.7                 | 2,200                            | 950  | 1,600  | 115                              | F7                                     | ISO ePM2,5 70%        | 65                                | 74            | 91           | В                   |
| T 90 1/2     | 53444179          | 289×592×650                   | 4                   | 3.1                 | 1,450                            | 600  | 1,100  | 115                              | F7                                     | ISO ePM2,5 70%        | 65                                | 74            | 91           | В                   |
| MF 90 1/1    | 53444178          | 592×592×650                   | 8                   | 6.2                 | 4,250                            | 1,200  | 2,000  | 140                              | F7                                     | ISO ePM2,5 70%        | 64                                | 74            | 91           | C                   |
| MF 90 5 / 6  | 53444175          | 492×592×650                   | 6                   | 4.7                 | 3,175                            | 950  | 1,500  | 140                              | F7                                     | ISO ePM2,5 70%        | 64                                | 74            | 91           | C                   |
| MF 90 1/2    | 53444172          | 289×592×650                   | 4                   | 3.1                 | 2,125                            | 600  | 1,000  | 140                              | F7                                     | ISO ePM2,5 70%        | 64                                | 74            | 91           | C                   |
| MF 90 1/4    | 53444170          | 289×289×650                   | 4                   | 1.5                 | 975                              | 300  | 450  | 140                              | F7                                     | ISO ePM2,5 70%        | 64                                | 74            | 91           | C                   |
| MF 95 1/1    | 53444168          | 592×592×650                   | 12                  | 9.0                 | 4,250                            | 1,250  | 2,200  | 190                              | F8                                     | ISO ePM1 80%          | 81                                | 86            | 95           | C                   |
| MF 95 5/6    | 53444167          | 492×592×650                   | 6                   | 4.7                 | 2,200                            | 650  | 1,150  | 190                              | F8                                     | ISO ePM1 80%          | 81                                | 86            | 95           | С                   |
| MF 95 1/2    | 53444166          | 289×592×650                   | 4                   | 3.1                 | 1,450                            | 400  | 800  | 190                              | F8                                     | ISO ePM1 80%          | 81                                | 86            | 95           | C                   |
| MF 95 1/4    | 53444165          | 289×289×650                   | 4                   | 1.5                 | 675                              | 200  | 350  | 190                              | F8                                     | ISO ePM1 80%          | 81                                | 86            | 95           | C                   |

### WINAIR | COARSE DUST





| SPECIFICATIONS                  |                      |
|---------------------------------|----------------------|
| Filter medium                   | Polyester            |
| Recommended final pressure drop | 250 Pa               |
| Thermal stability               | 70 °C                |
| Moisture resistance             | 100% rel. hum.       |
| Frame                           | Polyurethane         |
| Fire class                      | F1 acc. to DIN 53438 |
|                                 |                      |
|                                 |                      |

### **Application**

The WinAir 35 and WinAir 45 coarse filters provide stable arrestance of coarse dusts, and are particularly suitable as prefilters.

### Features and benefits

- Good filtration characteristics thanks to progressively structured filter media made of synthetic-organic fibers.
- Filter pockets foamed into the PU front frame, and welded in a leakproof configuration.
- Pocket forming through integrated welded seams.
- The pocket filters are microbiologically inactive and meet all hygiene requirements of the German VDI Guideline 6022 "Hygiene requirements for ventilation and air-conditioning systems and units".
- Free of glass-fibers, non-corroding, moisture-resistant up to 100% relative humidity, self-extinguishing under DIN 53438 (fire class F1).
- Simple, secure installation, suitable for all commonly used mounting frames.

### **Delivery notes**

Customized dimensions are available on request.

| ΕN | 779:2012 | ISO 16890 |
|----|----------|-----------|
|    |          |           |

| ARTICLE                | ARTICLE<br>NUMBER | DIMENSIONS<br>(W×H×D)<br>[mm] | NUMBER<br>OF POCKETS | FILTER AREA<br>[m²] | NOMINAL<br>VOLUME FLOW<br>[m³/h] | INITIAL<br>PRESSURE DROP<br>[Pa] | HLTER CLASS<br>AC., TO<br>EN 779:2012 | CLASS TO<br>ISO 16890 | INITIAL GRAVIMETRIC<br>ARRESTANCE<br>[%] | PARTICULATE MATTER<br>EFFICIENCY ISO EPM10<br>[%] |
|------------------------|-------------------|-------------------------------|----------------------|---------------------|----------------------------------|----------------------------------|---------------------------------------|-----------------------|--|---|
| WinAir 35 1/1 330 mm   | 53393071          | 592×592×330                   | 5                    | 2.0                 | 3,400                            | 28                               | G3                                    | ISO coarse 60%        | 64                                       | 42  |
| WinAir 35 5 / 6 330 mm | 53393073          | 492×592×330                   | 4                    | 1.6                 | 2,700                            | 28                               | G3                                    | ISO coarse 60%        | 64                                       | 42  |
| WinAir 35 1/2 330 mm   | 53393072          | 289×592×330                   | 3                    | 1.2                 | 2,050                            | 28                               | G3                                    | ISO coarse 60%        | 64                                       | 42  |
| WinAir 35 1/4 330 mm   | 53393159          | 289×289×330                   | 4                    | 0.7                 | 1,200                            | 28                               | G3                                    | ISO coarse 60%        | 64                                       | 42  |
| WinAir 45 1/1 330 mm   | 53390774          | 592×592×330                   | 5                    | 2.0                 | 3,400                            | 30                               | G4                                    | ISO coarse 65%        | 66                                       | 45  |
| WinAir 45 5/6 330 mm   | 53390780          | 492×592×330                   | 4                    | 1.6                 | 2,700                            | 30                               | G4                                    | ISO coarse 65%        | 66                                       | 45  |
| WinAir 45 1/2 330 mm   | 53390777          | 289×592×330                   | 3                    | 1.2                 | 2,050                            | 30                               | G4                                    | ISO coarse 65%        | 66                                       | 45  |
| WinAir 45 1/4 330 mm   | 53393160          | 289×289×330                   | 4                    | 0.7                 | 1,200                            | 30                               | G4                                    | ISO coarse 65%        | 66                                       | 45  |
| WinAir 45 1/1 510 mm   | 53390775          | 592×592×510                   | 5                    | 3.1                 | 3,400                            | 30                               | G4                                    | ISO coarse 65%        | 68                                       | 44  |
| WinAir 45 5/6 510 mm   | 53390781          | 492×592×510                   | 4                    | 2.5                 | 2,700                            | 30                               | G4                                    | ISO coarse 65%        | 68                                       | 44  |
| WinAir 45 1/2 510 mm   | 53390778          | 289×592×510                   | 3                    | 1.9                 | 2,050                            | 30                               | G4                                    | ISO coarse 65%        | 68                                       | 44  |
| WinAir 45 1/4 510 mm   | 53393161          | 289×289×510                   | 4                    | 1.1                 | 1,200                            | 30                               | G4                                    | ISO coarse 65%        | 68                                       | 44  |
| WinAir 45 1/1 625 mm   | 53390776          | 592×592×625                   | 5                    | 3.8                 | 3,400                            | 25                               | G4                                    | ISO coarse 70%        | 70                                       | 43  |
| WinAir 45 5/6 625 mm   | 53390782          | 492×592×625                   | 4                    | 3.0                 | 2,700                            | 25                               | G4                                    | ISO coarse 70%        | 70                                       | 43  |
| WinAir 45 1/2 625 mm   | 53390779          | 289×592×625                   | 3                    | 2.3                 | 2,050                            | 25                               | G4                                    | ISO coarse 70%        | 70                                       | 43  |
| WinAir 45 1/4 650 mm   | 53393162          | 289×289×650                   | 4                    | 1.4                 | 1,250                            | 25                               | G4                                    | ISO coarse 70%        | 70                                       | 43  |

Subject to technical changes.





## WINAIR | FINE DUST

| SPECIFICATIONS                  |  |
|---------------------------------|--|
| Filter medium                   | Polyester (WinAir 50), polyolefin (others) |
| Recommended final pressure drop | 450 Pa                                     |
| Thermal stability               | 70 °C                                      |
| Moisture resistance             | 100% rel. hum.                             |
| Frame                           | Polyurethane                               |
| Fire class                      | F1 acc. to DIN 53438                       |
|                                 |  |



### **Application**

The WinAir fine filters create good clean air quality based on good arrestance coupled with a low pressure drop. Used as prefilters, they protect the downstream filter stages.

### Features and benefits

- Very good filtration characteristics thanks to progressively structured filter media made of synthetic-organic fibers.
- Filter pockets foamed into the PU front frame, and welded in a leakproof configuration.
- Pocket forming through integrated welded seams.
- The pocket filters are microbiologically inactive and meet all hygiene requirements of the German VDI Guideline 6022 "Hygiene requirements for ventilation and air-conditioning systems and units".
- Free of glass-fibers, non-corroding, moisture-resistant up to 100% relative humidity, self-extinguishing under DIN 53438 (fire class F1).
- Simple, secure installation, suitable for all commonly used mounting frames.

### EN 779:2012 ISO 16890

| ARTICLE                | ARTICLE<br>NUMBER | DIMENSIONS<br>(W×H×D)<br>[mm] | NUMBER OF<br>POCKETS | FILTER AREA<br>[m²] | NOMINAL<br>VOLUME FLOW<br>[m³/h] | INITIAL<br>PRESSURE<br>DROP<br>[Pa] | FILTER CLASS<br>ACC. TO<br>EN 779:2012 | CLASS TO<br>ISO 16890 | PARTICULATE MATTER EFFICIENCY [%] |               |              |
|------------------------|-------------------|-------------------------------|----------------------|---------------------|----------------------------------|-------------------------------------|--|-----------------------|-----------------------------------|---------------|--------------|
|                        |                   |                               |                      |                     |                                  |                                     |  |                       | ISO<br>ePM1                       | ISO<br>ePM2,5 | ISO<br>ePM10 |
| WinAir 50 1/1 330 mm   | 53390783          | 592×592×330                   | 5                    | 2.0                 | 2,500                            | 40                                  | M5                                     | ISO ePM10 55%         | 5                                 | 12            | 59           |
| WinAir 50 5/6 330 mm   | 53390795          | 492×592×330                   | 4                    | 1.6                 | 2,000                            | 40                                  | M5                                     | ISO ePM10 55%         | 5                                 | 12            | 59           |
| WinAir 50 1/2 330 mm   | 53390787          | 289×592×330                   | 3                    | 1.2                 | 1,500                            | 40                                  | M5                                     | ISO ePM10 55%         | 5                                 | 12            | 59           |
| WinAir 50 1/4 330 mm   | 53393163          | 289×289×330                   | 4                    | 0.7                 | 900                              | 40                                  | M5                                     | ISO ePM10 55%         | 5                                 | 12            | 59           |
| WinAir 50 1/1 510 mm   | 53390784          | 592×592×510                   | 5                    | 3.1                 | 3,400                            | 50                                  | M5                                     | ISO ePM10 55%         | 6                                 | 14            | 58           |
| WinAir 50 5/6 510 mm   | 53390796          | 492×592×510                   | 4                    | 2.5                 | 2,700                            | 50                                  | M5                                     | ISO ePM10 55%         | 6                                 | 14            | 58           |
| WinAir 50 1/2 510 mm   | 53390788          | 289×592×510                   | 3                    | 1.9                 | 2,000                            | 50                                  | M5                                     | ISO ePM10 55%         | 6                                 | 14            | 58           |
| WinAir 50 1/4 510 mm   | 53393169          | 289×289×510                   | 4                    | 1.1                 | 1,200                            | 50                                  | M5                                     | ISO ePM10 55%         | 6                                 | 14            | 58           |
| WinAir 50 1/1 625 mm   | 53390785          | 592×592×625                   | 5                    | 3.8                 | 3,400                            | 45                                  | M5                                     | ISO ePM10 55%         | 7                                 | 15            | 56           |
| WinAir 50 5/6 625 mm   | 53390797          | 492×592×625                   | 4                    | 3.1                 | 2,700                            | 45                                  | M5                                     | ISO ePM10 55%         | 7                                 | 15            | 56           |
| WinAir 50 1/2 625 mm   | 53390794          | 289×592×625                   | 3                    | 2.3                 | 2,000                            | 45                                  | M5                                     | ISO ePM10 55%         | 7                                 | 15            | 56           |
| WinAir 50 1/4 650 mm   | 53393170          | 289×289×650                   | 4                    | 1.4                 | 1,250                            | 45                                  | M5                                     | ISO ePM10 55%         | 7                                 | 15            | 56           |
| WinAir 75 1/1 510 mm   | 53390798          | 592×592×510                   | 8                    | 4.9                 | 3,400                            | 100                                 | M6                                     | ISO ePM10 70%         | 26                                | 38            | 73           |
| WinAir 75 5 / 6 510 mm | 53390803          | 492×592×510                   | 6                    | 3.7                 | 2,550                            | 100                                 | M6                                     | ISO ePM10 70%         | 26                                | 38            | 73           |
| WinAir 75 1/2 510 mm   | 53390801          | 289×592×510                   | 4                    | 2.5                 | 1,700                            | 100                                 | M6                                     | ISO ePM10 70%         | 26                                | 38            | 73           |
| WinAir 75 1/4 510 mm   | 53393171          | 289×289×510                   | 4                    | 1.2                 | 800                              | 100                                 | M6                                     | ISO ePM10 70%         | 26                                | 38            | 73           |
| WinAir 75 1/1 625 mm   | 53390799          | 592×592×625                   | 8                    | 6.0                 | 3,400                            | 75                                  | M6                                     | ISO ePM10 75%         | 31                                | 42            | 76           |
| WinAir 75 5 / 6 625 mm | 53390804          | 492×592×625                   | 6                    | 4.5                 | 2,550                            | 75                                  | M6                                     | ISO ePM10 75%         | 31                                | 42            | 76           |
| WinAir 75 1/2 625 mm   | 53390802          | 289×592×625                   | 4                    | 3.0                 | 1,700                            | 75                                  | M6                                     | ISO ePM10 75%         | 31                                | 42            | 76           |
| WinAir 75 1/4 650 mm   | 53393172          | 289×289×650                   | 4                    | 1.4                 | 800                              | 75                                  | M6                                     | ISO ePM10 75%         | 31                                | 42            | 76           |
| WinAir 90 1/1 N 510 mm | 53464906          | 592×592×510                   | 8                    | 4.9                 | 3,400                            | 170                                 | F7                                     | ISO ePM2,5 70%        | 62                                | 71            | 92           |
| WinAir 90 5 / 6 510 mm | 53390810          | 492×592×510                   | 6                    | 3.7                 | 2,550                            | 170                                 | F7                                     | ISO ePM2,5 70%        | 62                                | 71            | 92           |
| WinAir 90 1/2 510 mm   | 53390808          | 289×592×510                   | 4                    | 2.5                 | 1,700                            | 170                                 | F7                                     | ISO ePM2,5 70%        | 62                                | 71            | 92           |
| WinAir 90 1/4 510 mm   | 53393173          | 289×289×510                   | 4                    | 1.2                 | 800                              | 170                                 | F7                                     | ISO ePM2,5 70%        | 62                                | 71            | 92           |
| WinAir 90 1/1 N 625 mm | 53464907          | 592×592×625                   | 8                    | 6.0                 | 3,400                            | 140                                 | F7                                     | ISO ePM2,5 70%        | 63                                | 72            | 91           |
| WinAir 90 5 / 6 625 mm | 53390811          | 492×592×625                   | 6                    | 4.5                 | 2,550                            | 140                                 | F7                                     | ISO ePM2,5 70%        | 63                                | 72            | 91           |
| WinAir 90 1/2 625 mm   | 53390809          | 289×592×625                   | 4                    | 3.0                 | 1,700                            | 140                                 | F7                                     | ISO ePM2,5 70%        | 63                                | 72            | 91           |
| WinAir 90 1/4 650 mm   | 53393174          | 289×289×650                   | 4                    | 1.4                 | 800                              | 140                                 | F7                                     | ISO ePM2,5 70%        | 63                                | 72            | 91           |