

## PneuMAX Nano Pulse Filters Blended Cellulose/Synthetic

**Superior performance when compared to: Donaldson- P19-1280 & P19-1281**

### Description

Pneumafil's PneuMAX Nano filters is a high efficiency filter designed for use in self-cleaning pulse style filter house systems. Our Blended Cellulose/Synthetic fiber design for gas turbine inlet systems. PneuMAX Nano Filters achieve MERV 14 and provide improved capture of submicron particulates at a lower pressure drop when compared to the P19-1280 and P19-1281 filters. This offers improved turbine protection and longer service life.

The durability of our blended media is enhanced by a moisture resistant resin system that yields a higher level of performance in air flow resistance, dust holding capacity and particle capture than conventional cellulose fiber filters.

PneuMax Nano Filters are manufactured to be aggressively pulsed for conditions with high dust concentrations in the ambient air. This typically results in a higher level of physical strength, lower operating pressure drop thus prolonging filter life.

### Construction

Typical Pneumafil manufacturing standards are as shown below:

- The pleated media pack is supported by cylindrical inner and outer cores of flattened expanded galvanized or stainless steel .
- Mechanical seam lock design can be added to eliminate oxidation of spot welds on inner/outer expanded metal liners.
- Pleats are stabilized by embossed pleat separators
- Media is bonded with a spiral of hot-melt adhesive and permanently bonded to the end caps with a two part polyurethane sealant.
- A seamless polyisoprene sponge rubber gasket is applied on each filter to attain a positive seal of the filter to the filter house grid plate.
- Filter set includes a proprietary embossed filter stop on conical filter to provide a safety stop for proper gasket compression.



### PneuMAX Nano Filter Performance Data

Rate Flow Per Set	1630 CFM
Clean Resistance	0.78 (inches of w.g.)
ASHRAE 52.2	MERV 14
E1 (0.3 –1.0 µm)	81%
E2 (1.0 –3.0 µm)	97%
E3 (3.0 –10.0 µm)	100%

### Available in TTD Style Cartridges



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### Replacement for Donaldson DuraTek-SpiderWeb® P19-1280 & P19-1281

Cylindrical	OD 12.75" (325 mm) x L 26" (660 mm)
Conical	OD 12.75" (325 mm) x 17.5" (445 mm), x L 26 (660 mm)

Part No.	Media	Construction
A45311C1	Blended / Synthetic Nano 275 Ft <sup>2</sup>	Cylindrical, galvanized - open/closed 01.18" bolt hole
A45312C1	Blended / Synthetic Nano 226 Ft <sup>2</sup>	Conical, galvanized - open/open
A45322C1	Blended / Synthetic Nano 190 Ft <sup>2</sup>	Cylindrical, galvanized - open/closed 01.18" bolt hole
A45323C1	Blended / Synthetic Nano 230 Ft <sup>2</sup>	Conical, galvanized - open/open

### Other Replacement Donaldson filters

Part No.	Donaldson P/N	Media	Construction
A44428C1	P19-1177	Synthetic Media - MERV 16 - Hydrophobic	Cylindrical, - open/closed 1.18" bolt hole
A44429C1	P19-1178	Synthetic Media - MERV 16 - Hydrophobic	Conical, galvanized - open/open
A45409C1	P19-1177	Synthetic Media - MERV 15	Cylindrical, - open/closed 1.18" bolt hole
A45410C1	P19-1178	Synthetic Media - MERV 15	Conical, galvanized - open/open

#### Filter Sleeve

P/N: S52669A1

- Dimensions - 27.5"F x 130"
- 100% synthetic coalescing filter sleeve, with Tackifier MERV 6
- No Straps

P/N: S52745C1

- Dimensions - 27.5"F x 130"
- 100% synthetic coalescing filter sleeve, with Tackifier MERV 6
- With Straps



#### Filter Tool

P/N: S52725C1

- Pre-filter installation Tool
- Extendable arm