

## Dantherm (Norican) Model MJX (B) 145/XL/14-11 Extractor

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Stock No	<a href="#">ES1193</a>
Manufacturer	<a href="#">Dantherm (Norican)</a>
Model	MJX (B) 145/XL/14-11
Year of Manufacture	1995
Approx Duty CFM / M <sup>3</sup> /Hr	9250 // 15700
Filter Area ft <sup>2</sup> / m <sup>2</sup>	1475 // 145
External Dimensions (WxDxH mm)	3250 x 2095 x 5595 mm

### Description

A MJX ( B ) range of reverse jet cleaned tubular bag filters, are designed and suitable for extracting dust from continuous processes.

They operate as free standing filter unit complete with hopper and discharge devices.

- Suitable for many different applications that generate light to heavy volumes of any dust.
- Robust welded steel construction.
- Replacement filter media from clean air side.
- Weatherproof for exposed locations.
- Full range of filter materials available.
- Build-in pre-separation with cross flow air distribution
- Efficient ground mounted Combifab fan.
- Normal maximum working temperature 80°C.
- Normal maximum negative pressure 8000 Pa.
- Normal maximum positive pressure 2000 Pa.
- Cleaning controller type NF8HD250 in IP65 enclosure, supply voltage 230/220/110V.
- Typical air flow volumes 15,700 m<sup>3</sup>/h per filter unit.

#### How MJX (B) Filter works

...during normal operation

1. During normal operation, the dust laden air from the plant travels down the supply duct
2. A vertical slotted baffle separates the inlet section that slows the airstream and directs dust downward into the hopper, protecting the bags from direct abrasion but allowing air to pass horizontally between the bags.
3. The lighter dust collects on the outside of the tubular bag as clean air passes through to the inside of the bags to the clean air chamber . Finally, the clean air travels through the air outlet where it may be returned to the plant or exhausted outdoors .
4. The heavier dust settles in the hopper section where it can be discharged into a metal bin or other waste discharge system.

...while cleaning

1. The MJB can utilise a differential pressure gauge to control the compressed air cleaning. In essence, the filter cleans itself when it needs to!
2. A compressed air line must be connected to one end of the compressed air manifold
3. A solenoid valve opens to allow compressed air from the manifold into the jet tubes .The jet tubes are aligned above each row of filter bags.
4. The downward blast blows the dust off the tubular filter bag (from the inside out) where it settles into the hopper section to be collected in a metal bin or other waste discharge system.

MJB reverse jet tubular bag filters typical utilise robust high efficiency nonwoven needlefelt materials incorporating a woven scrim for stability, with various finishes to suit the application and materials to be filtered or collected. The material may have a glazed dust collection surface. This improves the dust release properties for use with “difficult” dust materials.

The basic material is polyester needlefelt with a singed dust collection surface. However, many other base materials are available to suit particular applications.

There are materials to resist attack from acidic and alkaline atmospheres; with enhanced abrasion resistance; for higher

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temperatures; with anti-static properties; with flame retardant treatments and with other special properties.

Needlefelt can be made from many other kinds of fiber for example:

- Polypropylene (PP)
- Polyamide (NOMEX)
- Polyphenyl Sulphide (PPS) (Ryton)
- Polyimide (P84)
- Homopolymer-acrylic (PAN) (Dralon)
- PTFE (Gore-Tex) (Ravlex)

Self supported (scrimless) materials are economic for many general applications including.

- Extraction of cleaning and packing process
- Rice mills,
- Agriculture industry
- Fume extraction from hot-dip galvanizing process
- Conveying and handling hydrated lime for steel production
- Cement uploading and conveying for production and distribution
- Waste gas cleaning for garbage disposal plant separating of dust and sulphur dioxide
- Dockside handling, conveying and storage, of grain
- Cutting, trimming and finishing gypsum products
- Cement Plant / Belt Conveyor
- Process, Cement / Lime industry

Typical process applications:

- All powder, pellets and granulated material
- Agriculture
- Ceramic
- Chemicals & Pharmaceutical
- Food processing
- Foundry
- Galvanizing
- Metal & Casting
- Shot blast
- Surface finishing, decorative coating
- Conveying, mixing, blending
- Bag filling and emptying
- Blast cleaning
- Crushing, screening, sieving
- Milling
- Melting and sand reclamation to fettling and finishing
- Hot metal processes
- Grinding, polishing, finishing
- Machines and booths.

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- Powder coating

Fan Details

Type R 0.63 560/63  
Motor size 30kW  
rated duty 16.500 m<sup>3</sup>/h

Length of Filter Bags  
Type XL = 2400 mm  
# of filter fitted 154

**Photographs taken prior refurbishment. Our refurbishment service is not available on all machines.**