HEBERLEIN® HEMAJET-EO52.

AIR TEXTURING.

ADVANCED PRODUCTION OF BULK AIR TEXTURED YARNS.

The HemaJet-EO52 is used in the production of high grade bulk air textured yarns such as Polyester, Nylon, polypropylene and glass fibre. Air textured bulk yarns are used for upholstery in the automotive industry and more widely in furnishing fabrics. Glass fibres are used in flame retardant fabrics, thermal, electrical and acoustical insulation products.

Air Texturing

The objective of air texturing is an increased volume of the yarn, but also the blending of several yarns with different characteristics

Features and Benefits

- **High production speed up to 500meters per minute**
- **Excellent performance from jet to jet without adjustment**
- **Very low energy consumption**
- **High functionality, long life, reliability and simple maintenance**
- **Suitable for all air texturing machines**
- **Effect yarn overfeeds from 60 - 300%**
- **Produces a wide range of yarns for automotive seat fabrics, curtains, furnishing fabrics, carpet backing and technical specialities**

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Saurer Components, Switzerland
becomes
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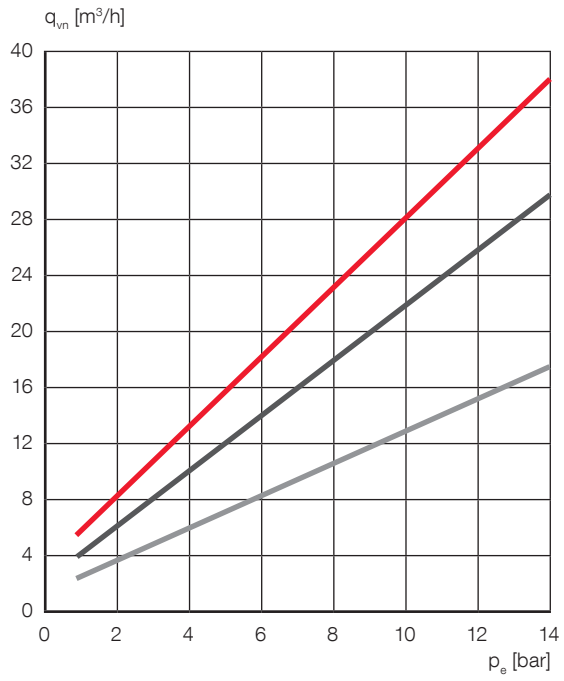
Heberlein® HemaJet-EO52

Technical data

Type		N50/V180	N70/V180	N110/V220	N180/V250
Colour of identification ring		white	blue	yellow	black
Pressure range p_e [bar]		6 - 14	6 - 14	6 - 14	6 - 14
Total feeder range [dtex]	PES/PA	156 - 500	500 - 1320	1300 - 2000	2500 - 3500
	PP		78 - 150	150 - 1300	1200 - 2500
Final yarn range [dtex]	PES/PA	300 - 850	850 - 1200	1200 - 3200	3200 - 6000
	PP			300 - 2500	2000 - 5000
	Glass			- 1500	- 10000
Production speed vww [m/min]		50 - 500	50 - 500	50 - 500	50 - 500
Single filament count [dtex] [1]		1.5 - 5.5	1.5 - 5.5	2.2 - 7.0	3.0 - 10.0
Yarn overfeed [1]	core	8 - 20%	8 - 20%	8 - 20%	8 - 20%
	effect	60 - 300%	60 - 300%	60 - 300%	60 - 300%
	single/parallel	< 30%	< 30%	< 30%	< 30%
Formula for air consumption	q_{vn} [m³/h]	1.2 x (p_e+1)	1.2 x (p_e+1)	1.95 x (p_e+1)	2.55 x (p_e+1)

[1] Approximate values: Depend on the properties of the feeder yarn used, on the machine set-up and the thread guiding. (den = 0.9 x dtex).

Air consumption



N180/V250
N110/V220
N50/V180, N70/V180

p_e = gauge pressure [bar]
q_{vn} = air consumption [m³/h]*
psi = 14.7 x bar
CFM = 0.588 x m³/h

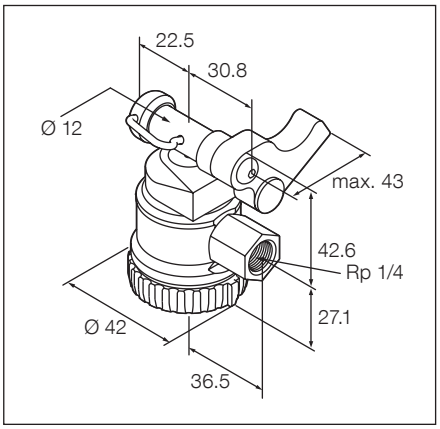
* Standard conditions according to DIN 1343:
Temperature = 0 °C
Pressure = 1.01325 bar

Compressed air requirements

- Max. residual oil: 0.1 mg/m³ (class 2*)
- Max. residual particles: (class 2*)
  - Particle size 1 µm
  - Particle density 1 mg/m³
- Max. residual water: (class 5*)
  - Residual water 7.732 g/m³
  - Dew point + 7 °C

* According to DIN ISO 8573-1

Dimensions and weight



Weight 400 g (dimensions in mm)