

# Technical Data sheet

## MICRO-IN-A-BOX

COMPLETE RECYCLING SYSTEM - 5 M<sup>3</sup>/HOUR CAPACITY



Brand name KBM MICRO-IN-A-BOX	A complete system to convert moulded EPS/EPP/ EPE/NEOPOR/ARCEL packaging and insulation materials into individual beads ready to be mixed with virgin beads to mould new products.
Material	Cabinet is made of galvanized steel.
Density range	Standard EPS version < 35-40 Kg/m <sup>3</sup> (< 2,2-2.5 lb/ft <sup>3</sup> ) High density version (HD) < 70 Kg/m <sup>3</sup> (< 7.5 lb/ft <sup>3</sup> )
Capacity by volume (Granulated EPS)	
6mm screen	2-3 m <sup>3</sup> per hour (70-105 ft <sup>3</sup> /hour)
8mm screen	3,5-5 m <sup>3</sup> per hour (120-175 ft <sup>3</sup> /hour)
10mm screen	4-6 m <sup>3</sup> per hour (140-210 ft <sup>3</sup> /hour)
Capacity weight (EPP+HD EPS) 5mm screen	20-50 Kg/m <sup>3</sup> per hour (44-110 lb/hour)
Screen surface	0.18 m <sup>2</sup> (1.8 ft <sup>2</sup> )
Space required (without optional pre-crusher)	5 m <sup>2</sup> (52 ft <sup>2</sup> )
Measurements L x W x H	
Fully mounted	2.2 x 1.9 x 3.7 m (87x75x146")
Dismounted for transport	2.2 x 1.9 x 2.35 m (87x75x93")
Hopper inlet height (from floor)	1600 mm (63")
Silo for pre-crushed material installed on top of the system	2.4 x 1.8 x 6 m (96x72x240") (14 m <sup>3</sup> )
Storage silo (optional)	Any size available
Pipe connections	160 mm (6")
Hopper opening	780 x 400 mm (30x15")
Estimated conserved material	Min. 85-95%
Extracted dust & particles	Max 5-15%
Dust content after processing	Max 1%



KBM APS | VOELUNDSVEJ 13 | 3400 HILLEROED | DENMARK  
Phone +45 4826 8090 / [www.kbm.dk](http://www.kbm.dk) / [kbm@kbm.dk](mailto:kbm@kbm.dk)

KBM ApS guarantees that the product meets the specification above. The keeping, handling and use of the products are beyond the control of KBM ApS, and therefore shall not invoke any responsibility of the company. This TD substitutes and deletes all previous versions.



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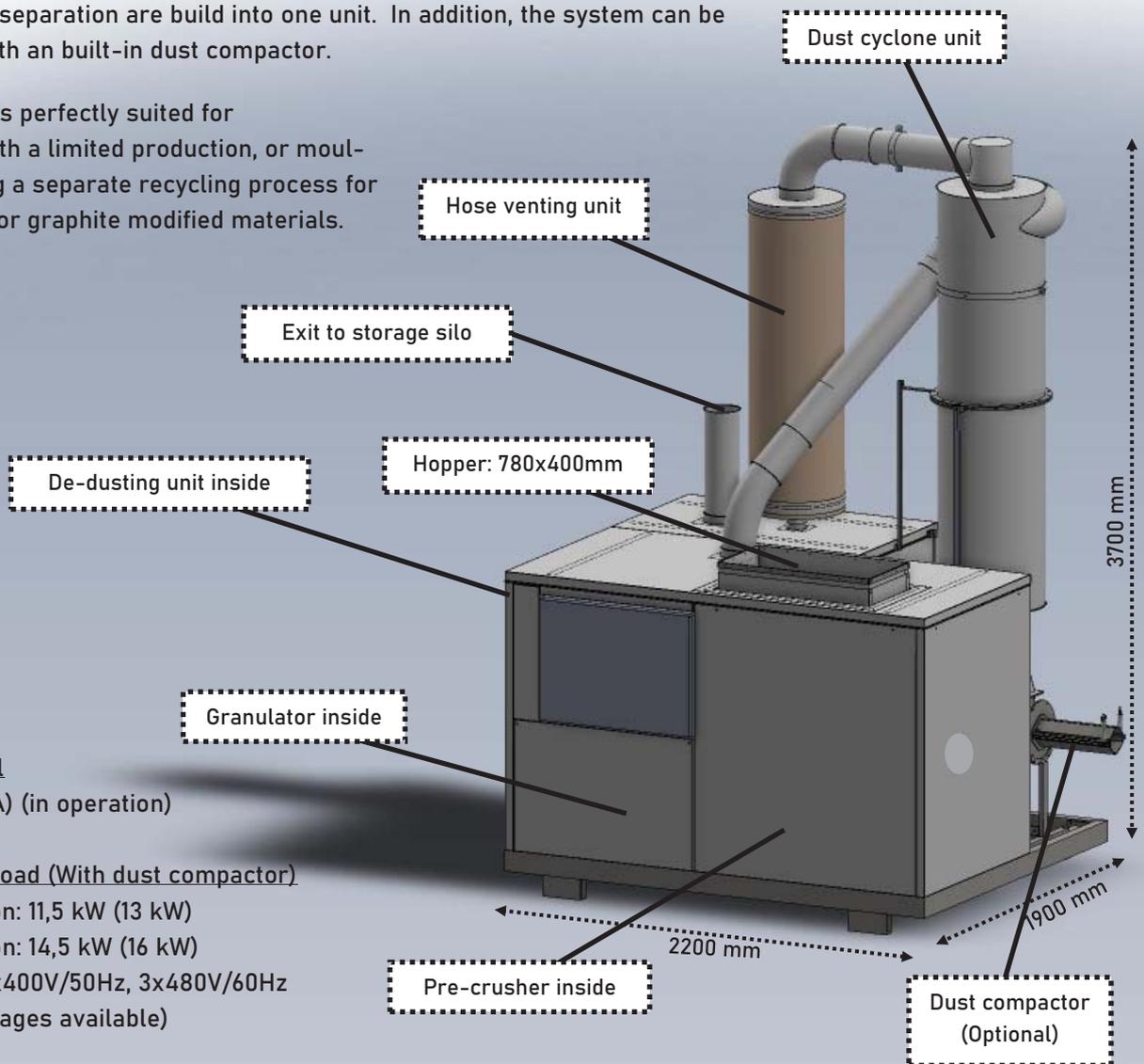
The KBM MICRO-IN-A-BOX complete recycling system is suited for processing EPS/EPP/EPE/NEOPOR/ARCEL. The system is available in 2 versions.

Standard version: Densities < 35-40 kg/m<sup>3</sup>

HD version: Densities < 70 kg/m<sup>3</sup>

The only system on the market (together with the KBM Mini-in-a-box), where pre-crushing, granulation and dust separation are built into one unit. In addition, the system can be delivered with an built-in dust compactor.

The system is perfectly suited for moulders with a limited production, or moulders wanting a separate recycling process for e.g. colored or graphite modified materials.



#### Noise level

70-75 dB(A) (in operation)

#### Electrical load (With dust compactor)

EPS version: 11,5 kW (13 kW)

EPP version: 14,5 kW (16 kW)

Voltage: 3x400V/50Hz, 3x480V/60Hz

(Other voltages available)



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Recycled EPP & EPS.  
Pre-crushed, granulated and de-  
dusted - ready to be reused  
in your production



Styrocrusher MAXI XL (optional)  
Capacity: 8-10 m<sup>3</sup> /hour (280-350 ft<sup>3</sup>)  
Hopper opening: 1400 x 560mm  
4' 8" X 1' 10"

Designed for easy movement  
and high flexibility



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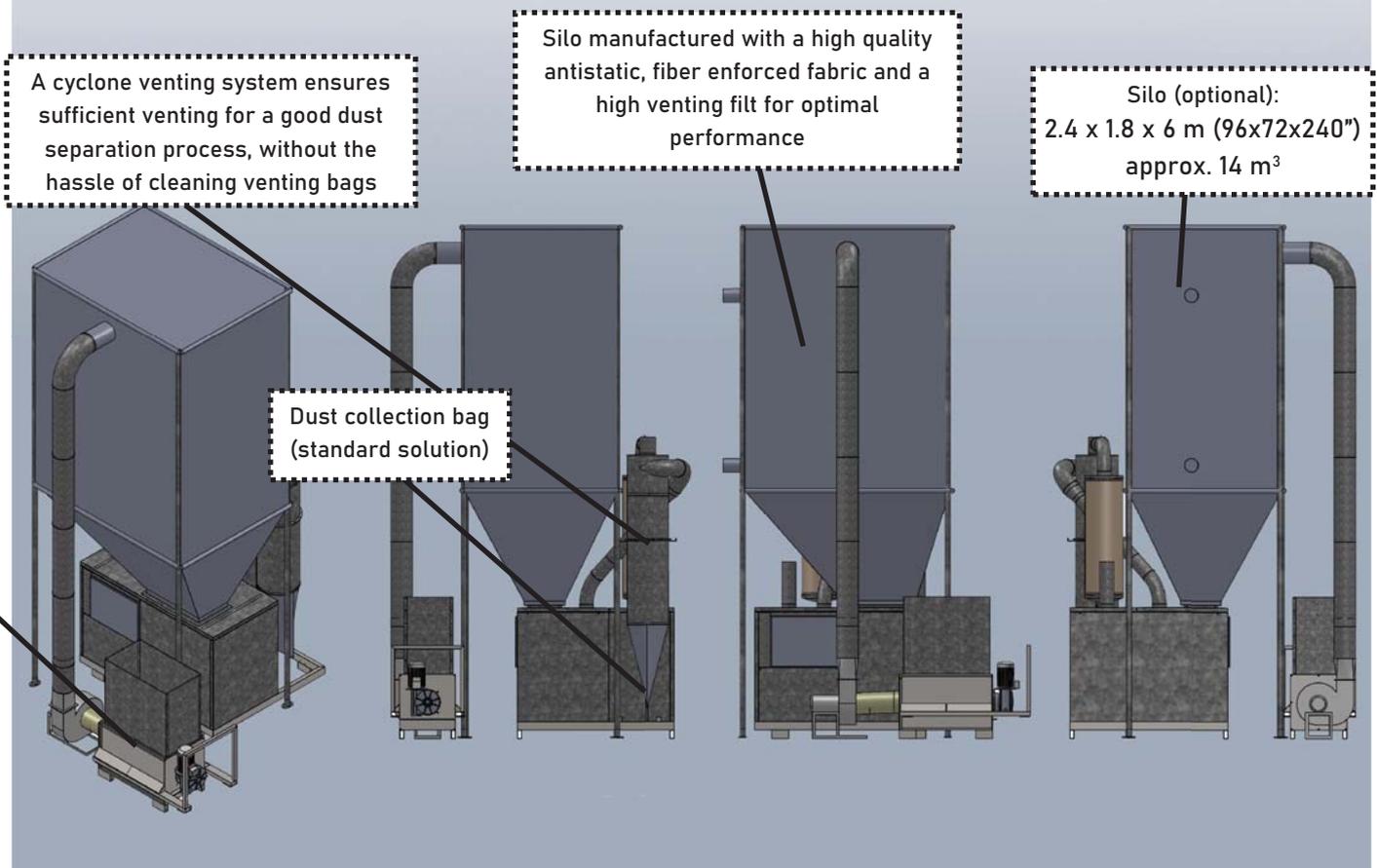
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- Investing in a KBM recycling system, enables you to gain a 85-95% value on your EPS/EPP scrap material.
- High mixing ratios: Add up to 10-20% of recycled material into shape moulding applications and 20-50% in block moulding without de-mixing problems.
- The system generates individual beads from the scrap moulded parts, dust free and ready to be re-inserted into your production.
- A unique design of the granulator and a special process limit the amount of dust and particles to a mere 5-15%
- Very easy installation: Only connect the power and ducting to the silo and pre-crusher. The system can easily be moved around with a forklift, providing great flexibility.
- An efficient dust separation ensures there are very few production stops, due to problems with blocking of core vents in your moulding machines.



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