

## IE5 Efficiency Powerpack

for the Vacumobil  
Jx/Vx 350, Jx/Vx 300,  
Jx/Vx 250

Dedusting with IE5

**HÖCKER®**  
**POLYTECHNIK**

*Always one idea ahead*

## Vacumobil deduster: Next Generation

# The IE5-Efficiency Powerpack

### Extraction with highest energy efficiency (IE5)

The Vacumobil deduster series is characterised by excellent extraction performance with minimum energy consumption. With the newly developed IE5-Efficiency Powerpack for the Vacumobile 350, 300 and 250 the Höcker Polytechnik energy saving professionals make full use of the possibilities of modern permanent magnet technology.

#### Vacumobil deduster with the best possible motor

With 11 kW motor power, we now achieve the extraction capacity where a 15 kW drive was previously required! A 7.5 kW motor (IE5) can replace an 11 kW motor (IE3), and a 5.5 kW motor (IE5) does the job of a 7.5 kW motor (IE3).

This pays off for you and also for the environment.

#### How did we manage to achieve that?

Our intelligent electronic control utilises a modern frequency inverter with a permanent magnet motor of the highest energy efficiency class IE5. Each of these three components reduces energy consumption, but the decisive step is the control process. Permanent magnet motors have specific characteristics that require high control intelligence. The control system for the IE5 efficiency power pack was therefore perfectly matched up with this type of motor by our technicians.

#### Successful practical and stress test

This IE5 efficiency power pack can pay for itself in a few months. **From day one you will benefit from low energy costs and stronger suction power.** This product also underwent several months of practical and stress testing at a major furniture manufacturer.

A Vacumobil 350 with IE5 efficiency Powerpack worked 5 days a week in two shifts under full load and production conditions.

**The result: More performance with reduced energy consumption.**

#### The permanent magnet motor

**More range for electric cars as well as more efficiency for your Vacumobil**

IE5 permanent magnet motors are characterised by their very high efficiency of approx. 94 %. In electric cars, this increases the range and boosts the efficiency of our vacuum vehicle dust extractors by up to 25 %.

#### Vacumobil. The safe deduster

The design principle of our Vacumobiles, briquetting presses and rotary valves has been proven 1000 times and has been officially tested.

All relevant laws and standards (ATEX, DIN EN 16770, industrial safety regulations, VDI guidelines, trade association regulations and rules as well as the eco-design guideline) can be complied with easily and safely.



Energy-efficient performance  
Permanent magnet motors

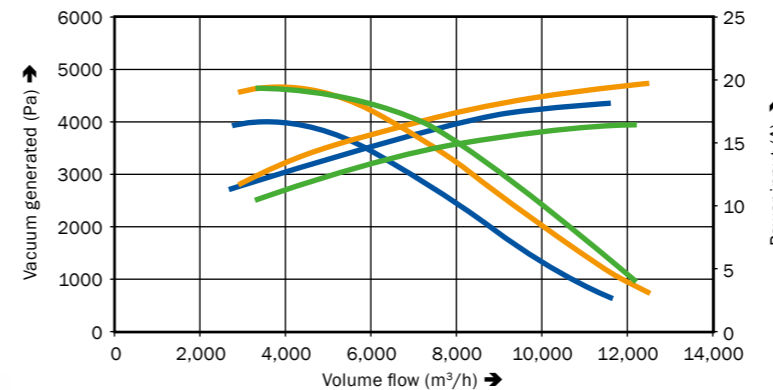


**Dedusting at the highest energy efficiency level**  
Vacumobil JP350 with IE5 efficiency power pack with jet/compressed air pulse cleaning and integrated briquetting press.

## Vacumobil with Powerpack

# Up to 30% more vacuum

In principle quite simple... The frequency converter gently increases the speed of the motor and provides a power boost.



- Vacumobil JT 350 with Powerpack IE5
- Vacumobil JT 350 with Powerpack IE3
- Vacumobil JT 350 without Powerpack

#### Example calculation:

- Vacumobil dust collector JP 350 with Powerpack IE5  
Application with a volume flow of 8,000 m³/h  
Productive time: 250 working days @ 8 h per year  
Efficiency advantage electricity and air: 25%

**Reduction of electricity costs: 1,200 € / per year**

*Electricity price: 0.24 Euro/kWh (average commercial Germany)*



It pays off for you.

## Vacumobil with Powerpack

### The advantages:

- increased negative pressure compared to comparable standard Vacumobil
- Efficiency advantage ensures a worthwhile return on investment
- most modern technology available on the market
- all Vacumobil options available
- supports ISO 50001 energy management systems
- supports sustainability through resource conservation

## Technical data

	11 kW IE5 Efficiency Powerpack 11 kW permanent magnet motor (IE5), frequency converter, control electronics	7.5 kW IE5 Efficiency Powerpack 7.5 kW permanent magnet motor (IE5), frequency converter, control electronics	5.5 kW IE5 Efficiency Powerpack 5.5 kW permanent magnet motor (IE5), frequency converter, control electronics
<b>Energy saving option for</b>	<b>Vacumobil 350</b>	<b>Vacumobil 300</b>	<b>Vacumobil 250</b>
Motor power	11 kW / 400 V / 50 Hz (IE5) <sup>(1)</sup>	7,5 kW / 400 V / 50 Hz (IE5) <sup>(1)</sup>	5,5 kW / 400 V / 50 Hz (IE5) <sup>(1)</sup>
Motor efficiency	max. 94 %	max. 94 %	max. 94 %
Nom. Volume Flow (V Nom)	6,927 m³/h at 20 m/s	5,100 m³/h at 20 m/s	3,535 m³/h at 20 m/s
Max. Volume Flow (V Max)	10,000 m³/h	9,000 m³/h	7,500 m³/h
Vacuum generated V Nom <sup>(2)</sup>	ca. 3,800 Pa	ca. 3,400 Pa	ca. 3,600 Pa
Vacuum generated V Max <sup>(2)</sup>	ca. 2,400 Pa	ca. 2,500 Pa	ca. 2,800 Pa
Maximum sound pressure level <sup>(3)</sup>	≤ 73 dB(A)	≤ 73 dB(A)	≤ 73 dB(A)
<b>Options for your Vacumobil</b>	Configure your energy-efficient Vacumobil as you wish: Choose the optimum filter cleaning jet or vibration and the desired discharge via chip bin, briquetting press or rotary valve.  Please also refer to the product brochures for the Vacumobil 350, 300 or 250.		

<sup>(1)</sup> In exchange for the standard IE3 motor <sup>(2)</sup> In delivery status - non-impinged filter hoses

<sup>(3)</sup> measured according to the EU Machinery Directive subject to free field conditions with 1 m distance of 1.6 m height at V Nom



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