The Busch MM series positive displacement vacuum pumps feature a compact rotary claw design that is air-cooled, dry-running and non-contacting. These features, along with quality construction, result in a pump that offers extremely high reliability and a long service life.

**MM 1142 BV**

- Non-contacting design, eliminates internal wear and parts to replace
- Air-cooled, requiring no water
- Dry-running, no sealing or lubricating oil is needed in the pumping chamber
- Minimal maintenance
- Economical, reduced power requirements
- High volumetric efficiency

**Mink MM 1104 - 1142 BV**

**Mink MM 1324 - 1402 AV**

**MM 1142 BV**

**Mink MM 1104 - 1142 BV**

**Mink MM 1324 - 1402 AV**

**Description**

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**Features**

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- Dry-running, no sealing or lubricating oil is needed in the pumping chamber
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- Economical, reduced power requirements
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**Standard Equipment**

- Acoustic enclosure
- Base frame
- Vibration isolators
- TEFC motor
- Oil sight glass
- Inlet screen
- Anti-suck back valve on inlet (except AVH models)
- Vacuum relief valve (models MM 1202 AV, MM 1252 AV, MM 1322 AV, MM 1402 AV only)
- Discharge silencer
- Threaded NPT inlet/outlet connections
Dry rotary claw vacuum pumps

Operating Principle

Inside the pump housing, two claw-shaped rotors take in air as they rotate in opposite directions. The air is compressed by the rotors, then discharged through a silencer to atmosphere.

The non-return valve incorporated into the inlet flange prevents air from back flowing into the vacuum chamber when the pump is turned off.

Mink MM rotary claw vacuum pumps are directly driven by a flanged motor, and the two rotors are synchronized by gears.

A wide range of accessories allow optimum adaptation to many applications.

Accessories
- Inlet filters
- Liquid separators
- Knock-out pots
- High-volume bag filters
- Control valves
- Gauges
- Switches and transmitters
- Motor starters
- Variable speed drives
- Vacuum receivers

Applications
- Food packaging
- Food processing
- Medical
- Laboratory
- Plastics
- Automation
- Packaging
- Electronics
- Pneumatic conveying
- Printing
- Environmental
- Woodworking
- Renewables
- Paper
- Central systems
## Technical Data

### Operation duty in dashed area not allowed. Vacuum relief valve to maintain maximum continuous operating pressure included as a standard feature.

### Technical Data

<table>
<thead>
<tr>
<th></th>
<th>1104 BV</th>
<th>1144 BV</th>
<th>1102 BV</th>
<th>1142 BV</th>
<th>1324 AV</th>
<th>1202 AV</th>
<th>1252 AV</th>
<th>1322 AV</th>
<th>1402 AVH</th>
<th>1402 AV</th>
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<tbody>
<tr>
<td><strong>Nominal pumping speed</strong></td>
<td>ACFM</td>
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<td>continuous duty</td>
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</table>

All performance data is based on ambient conditions of 14.7 PSIA and 70° F, and has a tolerance of ±/- 10%.

*DIN EN ISO 2151, at 300 Torr inlet pressure*
Dry rotary claw vacuum pumps

Dimensions

**MM 1104-1142 BV**

<table>
<thead>
<tr>
<th>Dimensions</th>
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</thead>
<tbody>
<tr>
<td>MM 1104 BV</td>
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<td>MM 1144 BV</td>
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**MM 1324-1322 AV**

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<th>B</th>
<th>C</th>
<th>D</th>
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<tbody>
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<td>MM 1202 AV</td>
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</table>

**MM 1402 AVH-AV**

<table>
<thead>
<tr>
<th>Dimensions</th>
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</thead>
<tbody>
<tr>
<td>MM 1402 AVH</td>
<td>54</td>
<td>17(\frac{1}{4})</td>
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<td>MM 1402 AV</td>
<td>51(\frac{5}{8})</td>
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</tbody>
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*All dimensions in inches unless otherwise noted.*