

Mink Vacuum Systems



Busch Mink Vacuum Systems

Description

Busch Mink vacuum systems use the advanced technology of a non-contacting, oil-free, rotary claw design for outstanding reliability and low cost of ownership. Mink systems are available in a variety of vertical and horizontal configurations and are designed for easy expansion using mechanical and electrical expansion modules.

The Busch Mink is a rotary claw-type, positive displacement, dry pump designed for either pressure or vacuum applications. The Mink is available as a single-stage or two-stage vacuum pump. Vacuum or pressure is produced by two non-contacting rotors in an oil-free pumping chamber. The dry, non-contacting design, along with quality construction, results in a system that offers extremely high reliability and a long pump life with low maintenance.



Duplex Vertical Tank Mounted
Lab System



Mink MI

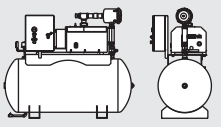
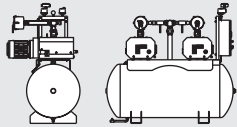
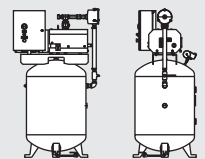
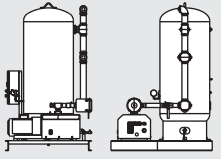
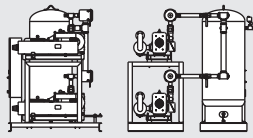


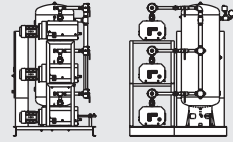
Mink MM

Busch Advantages

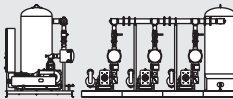
- Expandable systems with easy-to-install mechanical and electrical modules
- Proven reliable pump designs
- Low cost of ownership
- ISO 9001 Registered Company
- Lower operation and energy costs
- Dedicated engineering support
- Nationwide service network
- On-time production and delivery
- Dry systems eliminate expense of water use and disposal
- Backup pump eliminates downtime
- Easy access for servicing

Systems Configurations and Sizes

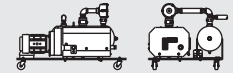
 <p>OTMS Horizontal Tank Mounted Simplex</p>	<p>OTMS Systems – with Motor Control Center</p> <table border="1"> <thead> <tr> <th>Model</th> <th>kW</th> <th>ACFM</th> <th>Total ACFM</th> <th>Tank Size (gal)</th> <th>LxWxH (inches)</th> </tr> </thead> <tbody> <tr><td>OTMS-1-MM1104</td><td>1.5</td><td>40</td><td>40</td><td>120</td><td>70x27x52</td></tr> <tr><td>OTMS-1-MM1144</td><td>2.2</td><td>53</td><td>53</td><td>120</td><td>70x27x53</td></tr> <tr><td>OTMS-1-MM1102</td><td>3.0</td><td>74</td><td>74</td><td>200</td><td>73x31x61</td></tr> <tr><td>OTMS-1-MM1142</td><td>4.0</td><td>97</td><td>97</td><td>200</td><td>73x31x61</td></tr> <tr><td>OTMS-1-MM1202</td><td>4.8</td><td>135</td><td>135</td><td>200</td><td>73x35x62</td></tr> <tr><td>OTMS-1-MM1252</td><td>5.5</td><td>165</td><td>165</td><td>200</td><td>73x35x62</td></tr> <tr><td>OTMS-1-MM1322</td><td>6.5</td><td>200</td><td>200</td><td>200</td><td>73x35x62</td></tr> <tr><td>OTMS-1-MI1352</td><td>7.5</td><td>216</td><td>216</td><td>200</td><td>73x40x71</td></tr> <tr><td>OTMS-1-MI1502</td><td>11.2</td><td>325</td><td>325</td><td>200</td><td>73x40x76</td></tr> </tbody> </table>	Model	kW	ACFM	Total ACFM	Tank Size (gal)	LxWxH (inches)	OTMS-1-MM1104	1.5	40	40	120	70x27x52	OTMS-1-MM1144	2.2	53	53	120	70x27x53	OTMS-1-MM1102	3.0	74	74	200	73x31x61	OTMS-1-MM1142	4.0	97	97	200	73x31x61	OTMS-1-MM1202	4.8	135	135	200	73x35x62	OTMS-1-MM1252	5.5	165	165	200	73x35x62	OTMS-1-MM1322	6.5	200	200	200	73x35x62	OTMS-1-MI1352	7.5	216	216	200	73x40x71	OTMS-1-MI1502	11.2	325	325	200	73x40x76
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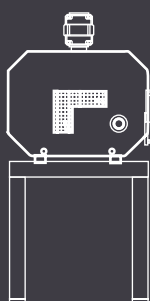
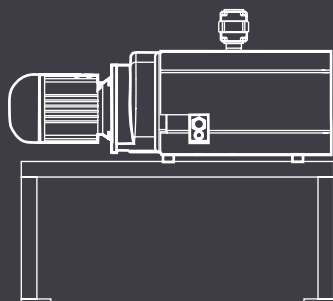
DVET
Vertically Expandable
Triplex



Horizontally Expandable
OHES Simplex
DHED Duplex
DHET Triplex

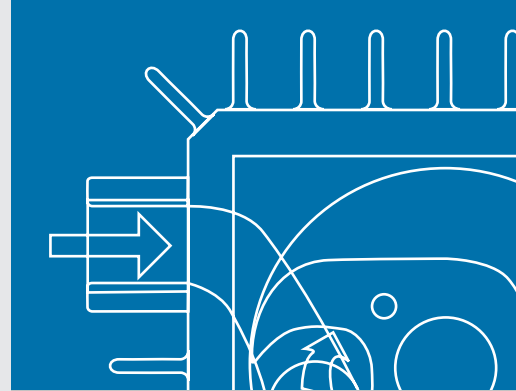


BMV
Mobile Simplex



Expansion Modules

For Busch Mink systems that are expandable, mechanical and electrical expansion modules simplify conversion by including easy-to-install mechanical components, electrical components, and updated programming for motor control centers.



DVET Systems – with Triplex Motor Control Center

Model	kW	ACFM	Total ACFM	Tank Size (gal)	LxWxH (inches)
DVET-3-MM1104	1.5	40	120	120	66x53x85
DVET-3-MM1144	2.2	53	159	120	66x53x85
DVET-3-MM1102	3.0	74	222	200	66x53x85
DVET-3-MM1142	4.0	97	291	200	66x53x85
DVET-3-MM1202	5.5	135	405	200	66x53x85
DVET-3-MM1252	5.5	165	495	200	66x53x85
DVET-3-MM1322	6.5	200	600	200	69x53x90
DVET-3-MI1352	7.5	216	648	200	135x67x89
DVET-3-MI1502	11.2	325	975	200	135x67x89

OHES Systems – with Motor Control Center

Model	kW	ACFM	Total ACFM	Tank Size (gal)	LxWxH (inches)
OHES-1-MI1352	7.5	216	216	200	84x66x89
OHES-1-MI1502	11.2	325	325	200	84x66x89

DHED Systems – with Duplex Motor Control Center

Model	kW	ACFM	Total ACFM	Tank Size (gal)	LxWxH (inches)
DHED-2-MI1352	7.5	216	432	200	119x67x89
DHED-2-MI1502	11.2	325	650	200	119x67x89

DHET Systems – with Triplex Motor Control Center

Model	kW	ACFM	Total ACFM	Tank Size (gal)	LxWxH (inches)
DHET-3-MI1352	7.5	216	648	200	158x67x89
DHET-3-MI1502	11.2	325	975	200	158x67x89

Mobile Vacuum Systems – with Motor Control Center

Model	kW	ACFM	Total ACFM	Tank Size (gal)	LxWxH (inches)
BMV-MM1104	1.5	40	40	9	44x30x27
BMV-MM1144	2.2	53	53	9	44x30x27
BMV-MM1102	3.0	74	74	9	44x30x28
BMV-MM1142	4.0	97	97	9	44x30x28

Quadruplex Systems
 All expandable systems can be expanded up to quadruplex systems by adding mechanical and electrical expansion modules. Systems with more than four pumps are available by special request.

Manual Start Simplex Systems
 Manual start simplex systems are available. Contact your Busch representative for model numbers.

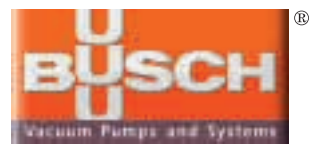
Mink System Advantages

- Lower overall energy use than individual point-of-use pumps
- Heat and noise removed from point-of-use location
- Easy access for servicing
- Automatic alternation between pumps for even wear
- Easy modular expansion
- Backup pump eliminates downtime
- Low maintenance

Laboratory Systems

All Mink systems are available as laboratory systems. Mink lab systems have pneumatically or electrically actuated isolation valves along with a purge arrangement. The system program includes an automatic purge cycle. For Mink lab system model numbers, insert "LAB" in the part number as shown in the following example.

For a Lab version of ATMD-2-MM1104, specify ATMD-2-LABMM1104.

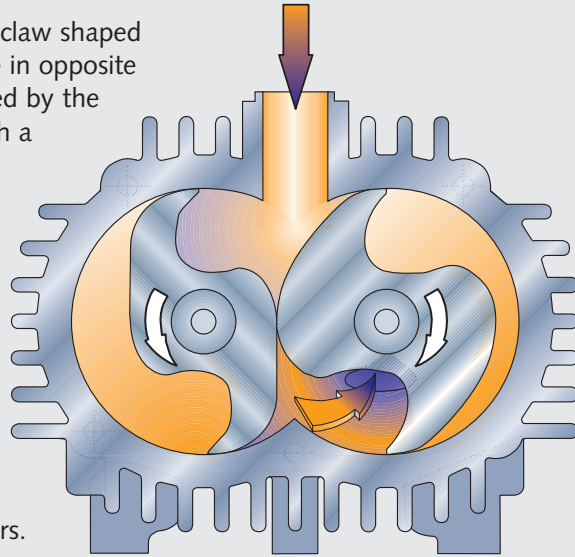


Operating Principle

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 rotary claw vacuum pumps are directly driven by a flanged motor, and the two rotors are synchronized by gears. A wide range of accessories allows optimum adaptation to many applications.



Custom Engineered Systems

Busch provides complete vacuum systems that include instrumentation, controls, alarms, computer hardware and software, and other special equipment. Busch's highly experienced application engineering staff will work with you to determine which pump system configuration will meet your specific needs.



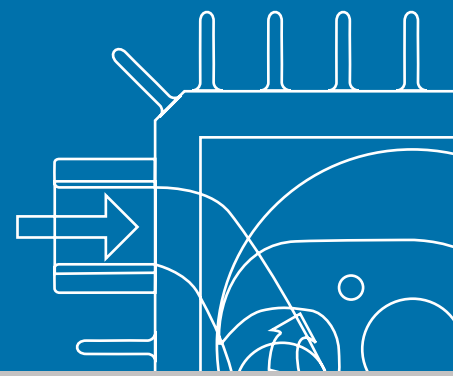
Custom Engineered
Expandable Triplex System



Custom Engineered
Enclosed System

Applications

- Beverage Industry
- Central Vacuum Systems
- Ceramics and Brick Industry
- Environmental Technology
- Food Industry
- Medical Technology
- Packaging Industry
- Paper Industry
- Plastics Industry
- Pneumatic Conveying
- Printing Industry
- Textile Industry
- Transport and Lifting Systems
- Vacuum Sewage
- Wood Industry
- Hospitals



Cost of Ownership

The Busch Mink is a real standout when comparing cost of ownership to other pump designs. The non-contacting design of the Mink pumps means that the rotors do not touch each other or the pump housing. By not touching, no lubrication is needed, there is no power robbing friction and there is no wear.

In day-to-day operations, that means there is no oil disposal problems, lower energy use, and low maintenance.



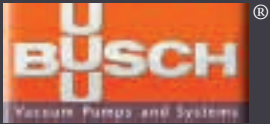


Busch - all over the world in industry

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ISO 9001 Registered Company

Nationwide Sales, Distribution and Service Centers



Strategically located regional service centers maintain a wide selection of in stock pumps, systems, and parts and are staffed with factory trained service technicians, who are ready to assist you with all your equipment needs.

Busch Factory Service Offers

- Technical assistance
- Spare parts service
- Repairs on-site or in one of our service facilities
- Maintenance training
- Replacement units
- On-site inspections
- One year repair warranty
- Fast turnaround times
- Maintenance contracts

Pump Exchange Program

With the Busch pump exchange program, a remanufactured replacement pump with a 12 month warranty is quickly shipped to you in exchange for your pump.

