Enviro-Equipment Inc.
10120 Industrial Drive
Pineville NC 28134

Stock#: 1998

Dimensions: 8x20' Trailer (plus 4' tongue), 9,990lb GVWR

Description: Air Sparge and Soil Vapor Extraction Trailer

*****SVE EQUIPMENT*****

- Rotron EN909BG72MWL Regenerative Blower with 15HP 3PH XP Motor
  - 615 SCFM MAX Flow, 112" WC Max Vacuum
- 2" Vacuum Relief Valve
- 4" Aluminum Inline Vacuum Filter Housing
- Solberg 2" Dilution Air Filter Silencer with Brass Gate Valve
- AWS80-4 Air Water Separator Tank with Sight Glass, LL, HL, HLA Float Tree
- Goulds 1ST1C0F4 KO Tank Transfer Pump with 1/2HP 1PH XP Motor
- Dwyer 1950 Low Vacuum Alarm Switch
- 4" Oxidizer Bypass Piping to Exterior of Trailer for Vapor Control Valve
- 4" Steel Exhaust Line with Silencer, Pressure Gauge, Temp Gauge, Tee with Ball Valves to Exhaust either through trailer roof to atmosphere or through trailer wall to vapor treatment.
- 4" Aluminum Manifold Header with 12x Zones
- 12x 1.5" SCH 80 PVC Manifold Zones each with:
  - Brass Gate Valve
  - 0-100" WC Vacuum Gauges
  - Pitot Tube Flow Meter with Magnehelic Gauge
  - Clear Sight Glass
  - Sample Port

*****AIR SPARGE EQUIPMENT*****

- Busch MM1102BP06ZZJK Rotary Claw Air Compressor with 10 3PH TEFC Motor
  - 79 CFM Max Flow, 22 PSIG Max Pressure
- AKG CC100-3-R Heat Exchanger
- 0-30 PSIG Gauges, Temperature Gauges, Pressure Relief Valve
- High Temperature Switch and High Pressure Switch
- Main Line Flow Meter and Pressure Regulator
- Manifold Header with 5x Solenoid Valve Zones (3 Legs On One Zone, 2 Legs on the other 4 zones)
- 11x 1.5" Manifold Legs Each With:
  - 0-30 PSIG Pressure Gauge
  - 1" Brass Ball Valve

*****CONTROL PANEL*****

- 200 Amp 208V 3PH Weatherproof Disconnect on Front of Trailer
- Nema 4 Control Enclosure with Controls on Outer Door
- Air Sparge Motor, SVE Motor, Transfer Pump Motor and Heat Exchanger Motor Each Have:
  - Hour Meter
  - Hand/Off/Auto Switch
  - Contactor/Overload/Circuit Breaker
- Control Alarms with Red Alarm Lights for:
  - Air Sparge High Temperature and High Pressure (Shuts down Air Sparge Compressor)
  - SVE Low Vacuum (Interlock To Shut Down Air Sparge Compressor)
  - AWS Tank High Level (Shuts down SVE Blower)
- Timer Relays for Air Sparge Solenoid Valve Zone Control

Enviro-Equipment Inc.
10120 Industrial Drive
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- Sensaphone Sentinel 4G LTE Cellular Telemetry System
- 75 Amp Fuses for Falco 300 Oxidizer Hookup

*****SYSTEM TRAILER*****

- 2013 Diamond Cargo Trailer
    - 8’ wide x 20’ long plus 4’ tongue
    - 5000lb tandem axles (9990 GVWR)
    - Side Access Door on Driver’s Side for AS and SVE Room
    - Exterior Rain Hoods over Intake / Exhaust Fan Openings
    - Interior Divider Wall Separating AS and SVE Rooms
    - SVE Room Explosion Proof Exhaust Fan with Thermostat, Explosion Proof Heater with Thermostat, XP Lights
    - Air Sparge Room Weatherproof Light Fixture, Fan Forced Ceiling Mount Heater and Exhaust Fan with Thermostat
    - SVE Room Wiring Class 1 Div 2 Group D, Air Sparge Room Wiring General Industrial NON-XP.

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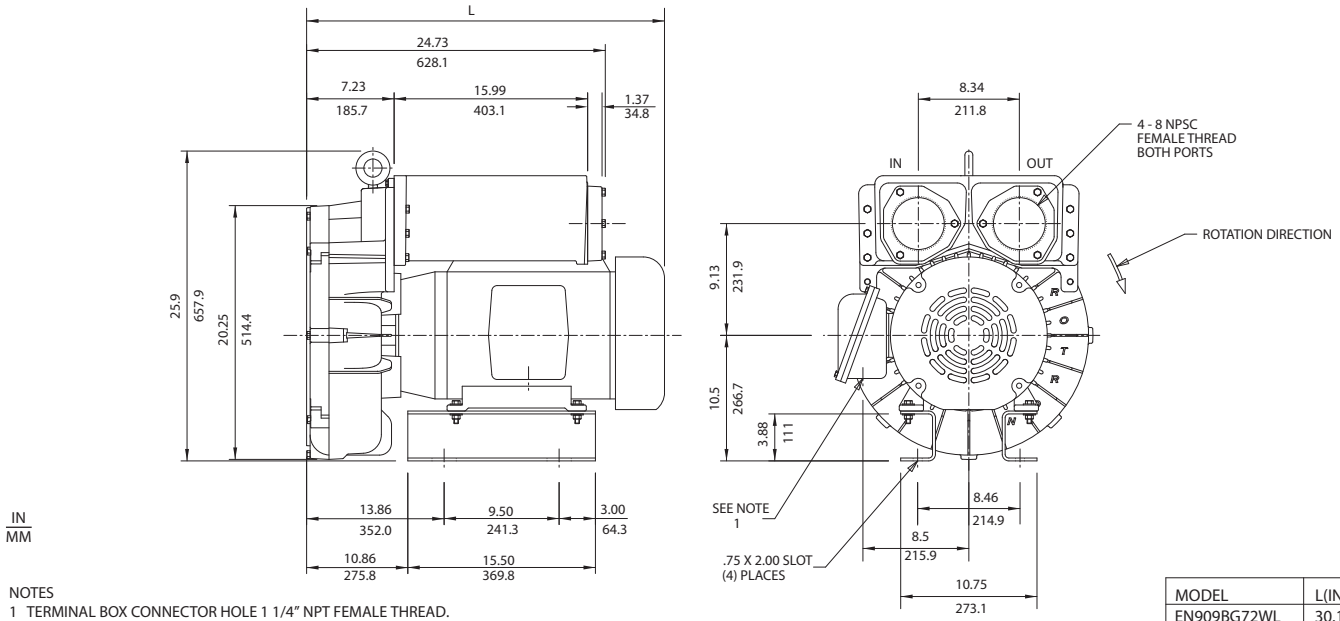
EN 909 & CP 909

ROTRON®

10.0 / 15.0 HP Sealed Regenerative w/Explosion-Proof Motor



NOTES
1 TERMINAL BOX CONNECTOR HOLE 1 1/4" NPT FEMALE THREAD.
2 DRAWING NOT TO SCALE, CONTACT FACTORY FOR SCALE CAD DRAWING.
3 CONTACT FACTORY FOR BLOWER MODEL LENGTHS NOT SHOWN.

MODEL	L(IN/MM)
EN909BG72WL	30.17/766.3
EN909DB72WL	23.66/601.0

		Part/Model Number			
		EN909BG72WL	EN909BG86WL	EN909BD72WL	CP909GA72WLR
Specification	Units	081741	081736	081743	038982
Motor Enclosure - Shaft Mtl.	-	15	15	10	15
Horsepower	-	Explosion-proof-CS	Explosion-proof-CS	Explosion-proof-CS	Chem XP-SS
Phase - Frequency	-	Three-60 hz	Three-60 hz	Three-60 hz	Three-60 hz
Voltage	AC	230/460	575	230/460	230/460
Motor Nameplate Amps	Amps (A)	36/18	14.4	24/12	36/18
Max. Blower Amps	Amps (A)	48/24	18	32/16	48/24
Inrush Amps	Amps (A)	240/120	100	234/117	240/120
Service Factor	-	2/2	2	2/1	2/2
Starter Size	-	1.0	1.0	1.0	1.0
Thermal Protection	-	Class B - Pilot Duty	Class B - Pilot Duty	Class B - Pilot Duty	Class B - Pilot Duty
XP Motor Class - Group	-	I-D, II-F&G	I-D, II-F&G	I-D, II-F&G	I-D, II-F&G
Shipping Weight	Lbs	524	524	504	524
	Kg	237.7	237.7	228.6	237.7

Voltage - ROTRON motors are designed to handle a broad range of world voltages and power supply variations. Our dual voltage 3 phase motors are factory tested and certified to operate on both: **208-230/415-460 VAC-3 ph-60 Hz** and **190-208/380-415 VAC-3 ph-50 Hz**. Our dual voltage 1 phase motors are factory tested and certified to operate on both: **104-115/208-230 VAC-1 ph-60 Hz** and **100-110/200-220 VAC-1 ph-50 Hz**. All voltages above can handle a ±10% voltage fluctuation. Special wound motors can be ordered for voltages outside our certified range.

Operating Temperatures - Maximum operating temperature: Motor winding temperature (winding rise plus ambient) should not exceed 140°C for Class F rated motors or 120°C for Class B rated motors. Blower outlet air temperature should not exceed 140°C (air temperature rise plus inlet temperature). Performance curve maximum pressure and suction points are based on a 40°C inlet and ambient temperature. Consult factory for inlet or ambient temperatures above 40°C.

Maximum Blower Amps - Corresponds to the performance point at which the motor or blower temperature rise with a 40°C inlet and/or ambient temperature reaches the maximum operating temperature.

XP Motor Class - Group - See Explosive Atmosphere Classification Chart in Section I

AMETEK TECHNICAL & INDUSTRIAL PRODUCTS
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AMETEK® TECHNICAL & INDUSTRIAL PRODUCTS

Environmental / Chemical Processing Blowers

EN 909 & CP 909

ROTRON®

10.0 / 15.0 HP Sealed Regenerative w/Explosion-Proof Motor

FEATURES

- Manufactured in the USA - ISO 9001 and NAFTA compliant
- Maximum flow: 615 SCFM
- Maximum pressure: 140 IWG
- Maximum vacuum: 112 IWG
- Standard motor: 15 HP, explosion-proof
- Cast aluminum blower housing, impeller , cover & manifold; cast iron flanges (threaded); teflon® lip seal
- UL & CSA approved motor with permanently sealed ball bearings for explosive gas atmospheres Class I Group D minimum
- Sealed blower assembly
- Quiet operation within OSHA standards

MOTOR OPTIONS

- International voltage & frequency (Hz)
- Chemical duty, high efficiency, inverter duty or industry-specific designs
- Various horsepowers for application-specific needs

BLOWER OPTIONS

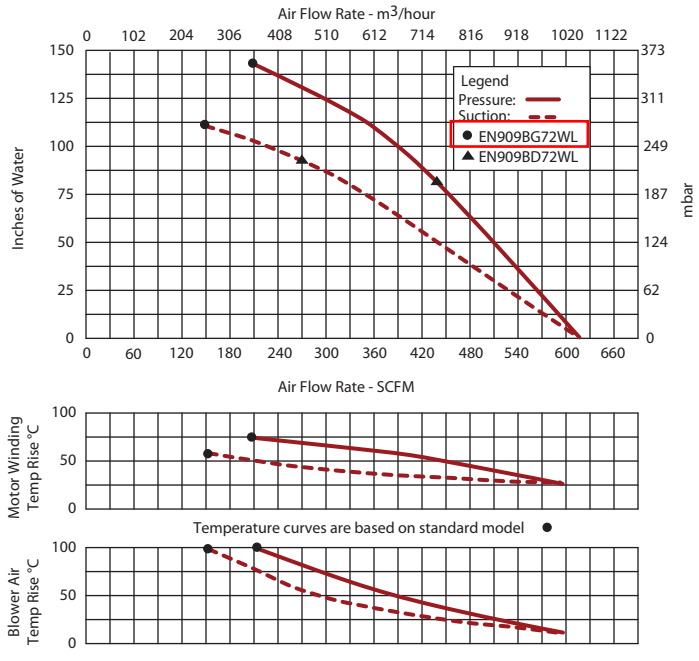
- Corrosion resistant surface treatments & sealing options
- Remote drive (motorless) models
- Slip-on or face flanges for application-specific needs

ACCESSORIES

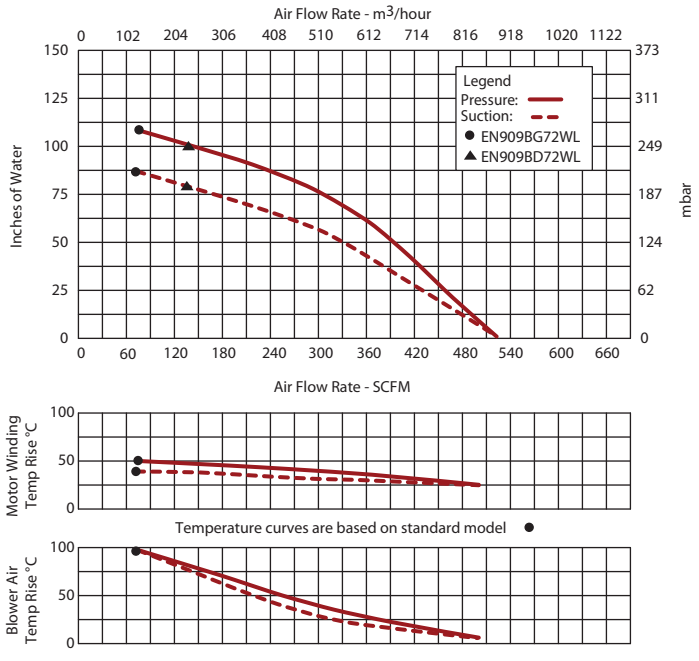
- Flowmeters reading in SCFM
- Filters & moisture separators
- Pressure gauges, vacuum gauges, & relief valves
- Switches - air flow, pressure, vacuum, or temperature
- External mufflers for additional silencing
- Air knives (used on blow-off applications)
- Variable frequency drive package

Blower Performance at Standard Conditions

60 Hz



50 Hz



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AMETEK®
TECHNICAL & INDUSTRIAL PRODUCTS

Mink
MM 1104 – 1142 BP
MM 1202 – 1322 AP

MM 1104 BP

Description

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

Maintenance-Free

Non-contacting design – eliminates internal wear and parts to replace

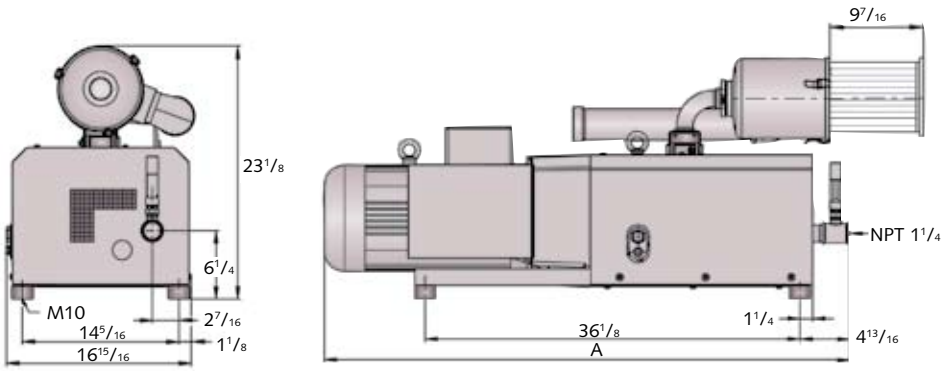
Air cooling – no water levels to check and no cooling system to maintain

Dry running – no sealing or lubricating oil is needed in the pumping chamber, so there is minimal maintenance

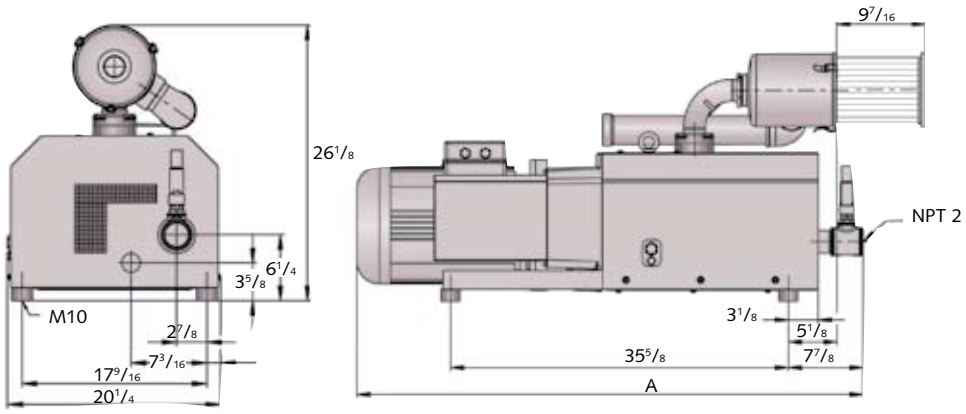
Economical

Operating costs are low because of the maintenance-free design and the reduced power requirements made possible by the Mink's high volumetric efficiency along with a non-contacting pumping chamber.

Dimensions



Dimensions	MM 1104 BP	MM 1144 BP	MM 1102 BP	MM 1142 BP



Dimensions	MM 1202 AP	MM 1252 AP	MM 1322 AP
A	49 1/4	53 3/8	53 15/16

All dimensions in inches unless otherwise noted.

Busch - all over the world in industry

ISO 9001-2000 Registered Company

Busch LLC 516 Viking Drive Virginia Beach, VA 23452
Phone (757) 463-7800 FAX (757) 463-7407

www.buschusa.com
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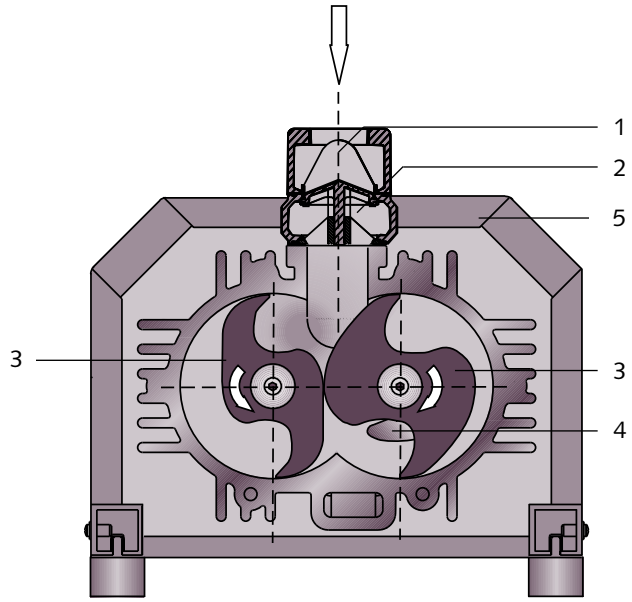
Dry Rotary Claw Pressure Pumps

Operating Principle



1 Gas Inlet
2 Non-return valve
3 Claws
4 Gas outlet
5 Acoustic enclosure

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 through the pump when the pump is turned off.
Mink MM dry rotary claw pressure 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.

Applications

Busch Mink MM dry rotary claw pressure pumps are used across a broad range of industries for many different applications and are well suited to applications where dust particles may be present. Mink MM pressure pumps are especially suited to:

Beverage industry

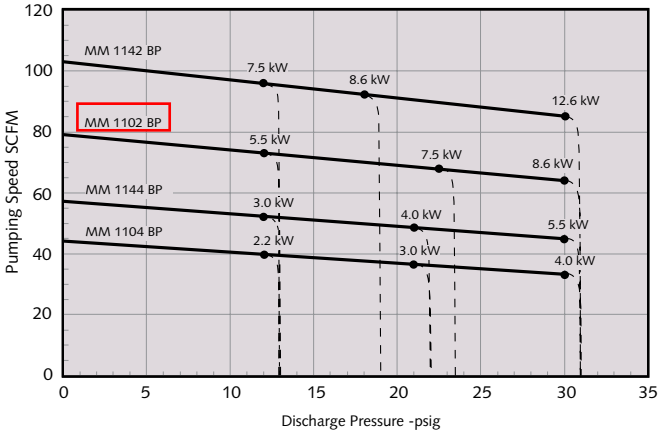
Environmental technology

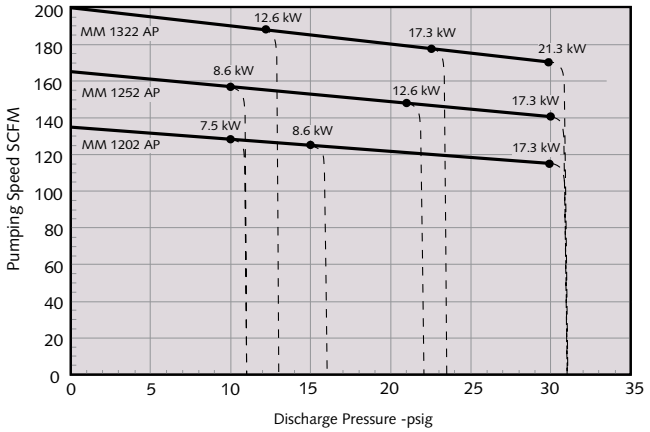
Pneumatic conveying

Printing industry

Technical Data

Pumping Speed vs. Discharge Pressure





Dashed lines represent pump performance for motor chosen.

Technical Data Mink MM Model	Nominal pumping speed SCFM	Motor Size kW (Hp)	Maximum pressure psig	Relief valve cracking pressure psig	Nominal motor speed RPM	Sound rating dBA	Weight approx. Lbs
1104 BP	44	2.2 (3.0)	13.0	12	1800	73	381
	44	3.0 (4.0)	22.0	21	1800	73	388
	44	4.0 (5.4)	31.0	30	1800	73	396
1144 BP	57	3.0 (4.0)	13.0	12	1800	73	403
	57	4.0 (4.4)	22.0	21	1800	73	411
	57	5.5 (7.5)	31.0	30	1800	73	432
1102 BP	79	5.5 (7.5)	13.0	12	3600	81	425
	79	7.5 (10)	23.5	22.5	3600	81	436
	79	8.6 (11.5)	31.0	30	3600	81	444
1142 BP	103	7.5 (10)	13.0	12	3600	81	448
	103	8.6 (11.5)	19.0	18	3600	81	456
	103	12.6 (17)	31.0	30	3600	81	520
1202 AP	135	7.5 (10.0)	11.0	10	3600	82	519
	135	8.6 (11.5)	16.0	15	3600	82	519
	135	17.3 (23.2)	31.0	30	3600	82	519
1252 AP	165	8.6 (11.5)	11.0	10	3600	83	528
	165	12.6 (16.9)	22.0	21	3600	83	528
	165	17.3 (23.2)	31.0	30	3600	83	528
1322 AP	200	12.6 (16.9)	13.0	12	3600	85	550
	200	17.3 (23.2)	23.5	22.5	3600	85	550
	200	21.3 (28.6)	31.0	30	3600	85	550