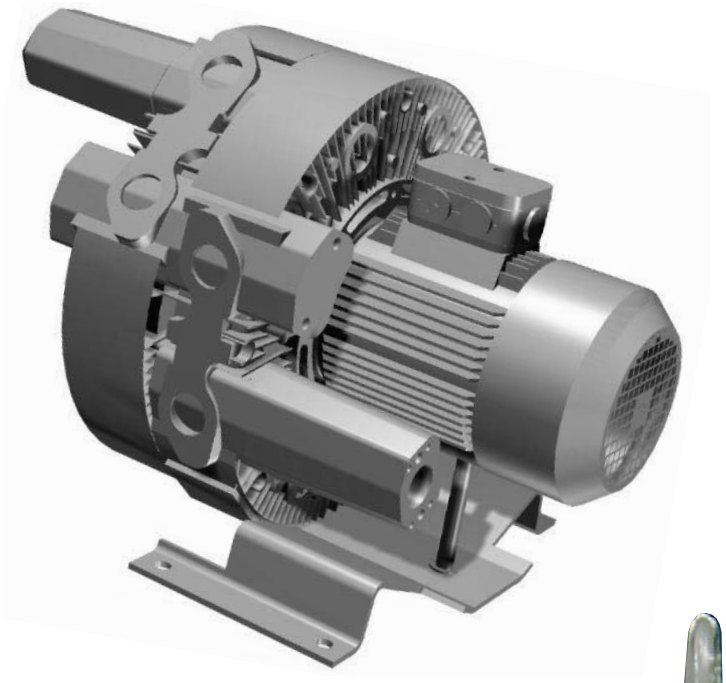
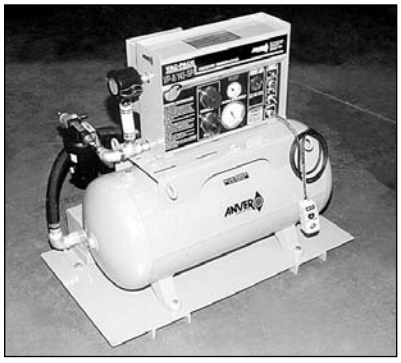
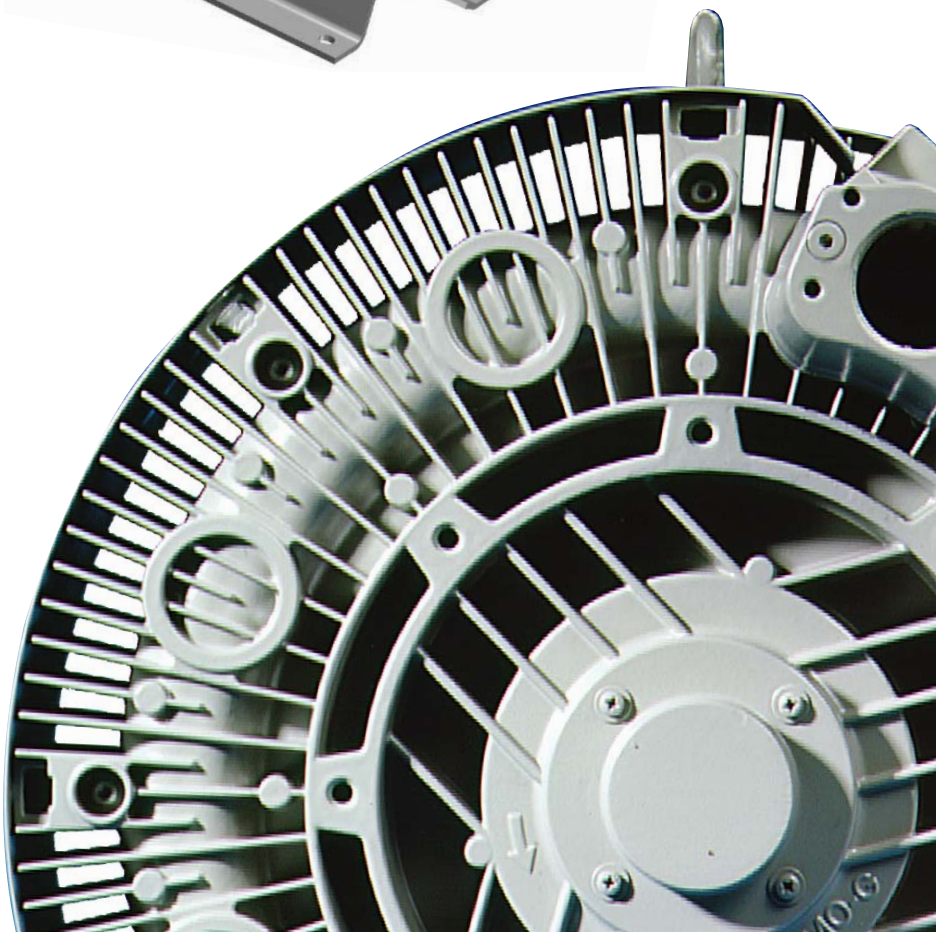
4

Section

Vacuum Pumps and Stations







Vacuum Pumps & Stations

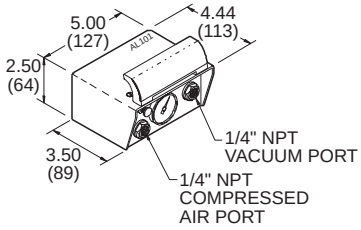
Air-Powered Mini-Vacuum Stations

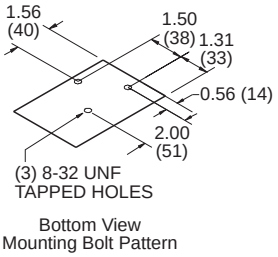
132 00 158 • Revision H
Control Number: 111504

ANVER AL101, AL1001/20 and AL1001/25 Series of Mini-Vacuum Stations

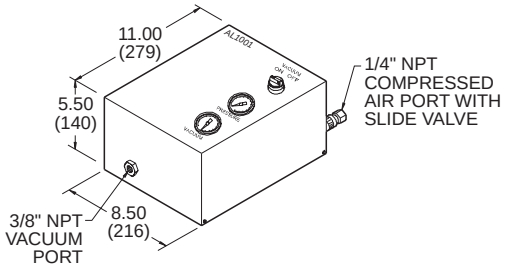
ANVER Air-Powered Mini-Vacuum Stations are low cost, compact, require little maintenance and feature quality ANVER venturi vacuum generators. A vacuum check valve maintains vacuum in case of power failure. On clean, smooth, non-porous material, the unit will hold vacuum per ASME Standard B30.20a-2001 for Vacuum Lifting Devices allowing the operator to put down the load safely. A vacuum release/blow-off valve ensures a quick and consistent attach and release for high production usage. Air supply must be clean, dry and regulated.

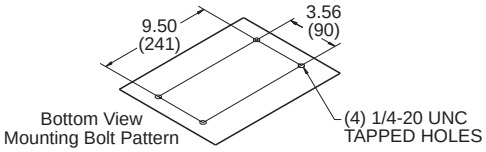
AL101 Features:
Stainless Steel Enclosure and Plated Components





AL1001 Features:
- Include a pressure gauge for monitoring incoming compressed air
- These Mini-Vacuum Stations also perform well on slightly porous material
- An internal air filter with replaceable element on vacuum port protects against contamination





Specifications:

ANVER Item No.	Vacuum Generator Model Number	Vacuum Flow SCFM (l/min.)	Air Consumption SCFM (l/min.)	Optimum Supply Pressure (PSI)	Maximum Vacuum in. Hg (mm Hg)	Weight lbs. (kg)
AL101	VR09	0.74 (21)	1.27 (36)	72.5	27 (686)	7 (3)
AL1001/20	JE20H	4.30 (122)	7.00 (198)	72.5	27 (686)	16 (7)
AL1001/25	JE25H	7.00 (198)	9.50 (269)	72.5	27 (686)	16 (7)

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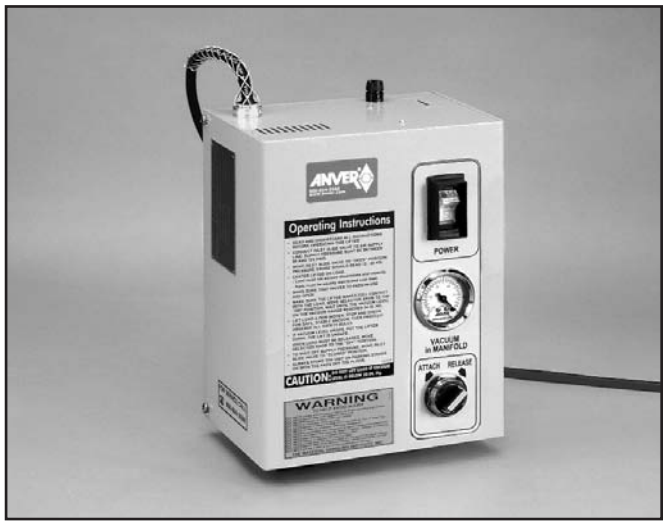
132 00 387 • Revision B

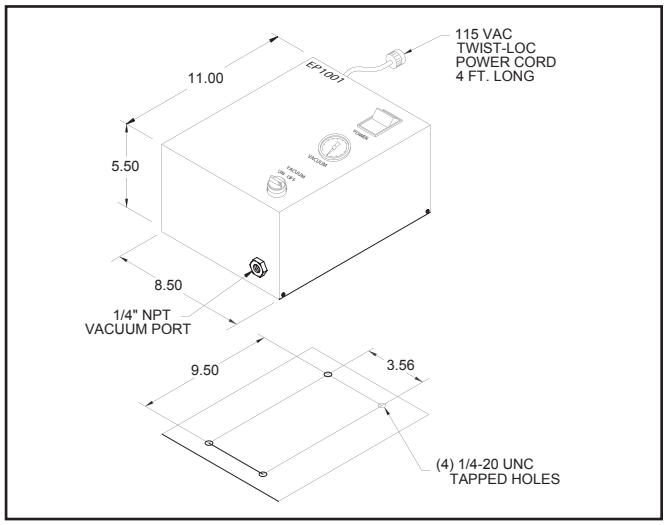
Control Number: 030104 • Supersedes 132 00 199

ANVER EP1001 Series of Mini-Vacuum Stations

These low cost, compact electric-powered vacuum stations require little maintenance. A vacuum check valve is provided to maintain vacuum in case of power failure. On clean, smooth, non-porous material, the unit will hold vacuum per ASME Standard B30.20a-2001 for Vacuum Lifting Devices allowing the operator to put down the load safely. A vacuum attach/release valve is included to ensure a consistent attach/release.

Features a quality ANVER electric vacuum pump and a vacuum gauge to monitor vacuum level. Continuously running vacuum pump makes this vacuum station perform well on slightly porous material. An internal vacuum filter with replaceable element protects against contamination.





Specifications:

Model Number	Vacuum Pump No.	Supply Voltage	Vacuum Flow SCFM (l/min.)	Max. Vacuum * in. Hg (mm Hg)	Weight lbs. (kg)
EP1001	**PMP-085-115**	**115-60-1**	**0.85 (24.12)**	**44 (610)**	**16 (7)**

s (13200387)

Air Powered Vacuum Pumps and Stations

Mitey-AirVac Air Powered Vacuum Stations

MTY-1 Air Powered Vacuum Station

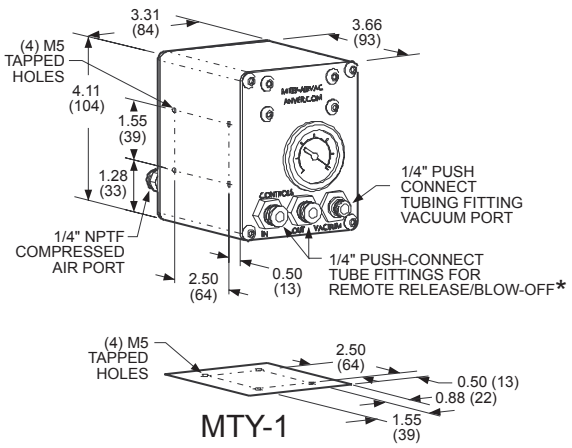
Features:

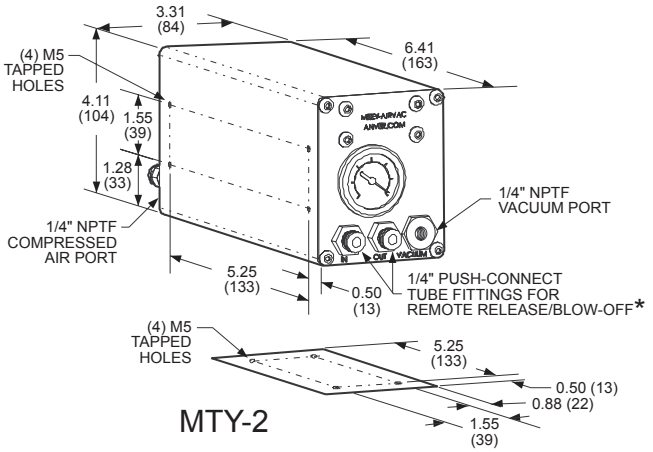
- Low cost, light weight, subcompact size, requires little or no maintenance.
- Internal vacuum check valve maintains vacuum in case of power loss. On clean, smooth, non-porous material, the unit will hold vacuum per ASME Standard B30.20a-2001 for vacuum lifting devices, allowing the operator to put down the load safely.
- Available in a panel face mounted push-button switch for release/blow-off (shown at left) or with a remote switch which activates a blow-off for quick release.
- Vacuum gauge for monitoring manifold vacuum level.
- Low compressed air consumption. No moving parts to create heat of any type.
- Symmetrical mounting hole locations for multiple mounting orientations.

MTY-2 Air Powered Vacuum Station

Features:

- Higher flow version of the MTY-1.
- Available in four flow rates and generating capacities.
- Higher flow for faster evacuation.
- Good for use on non-porous to slightly porous materials.





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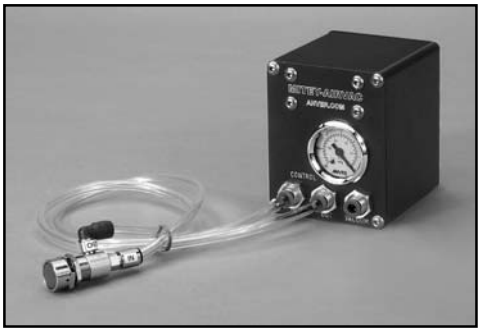
Air Powered Vacuum Pumps and Stations

Mitey-AirVac Air Powered Vacuum Stations

ANVER® CORPORATION

Station Number	Generator Number	Compressed Air Consumption SCFM (l/min.)	Vacuum Flow SCFM (l/min.)	Supply Pressure PSI	Rated Vacuum in. Hg (mm Hg)	Unit Weight Lbs. (Kg)
MTY-1-09	VR09	1.27 (36)	0.74 (21)	72	26 (660)	2 (0.9)
MTY-1-09-FB	VR09	1.27 (36)	0.74 (21)	72	26 (660)	2 (0.9)
MTY-2-12	JE12H	2.37 (67)	1.59 (45)	72	26 (660)	3 (1.4)
MTY-2-12-FB	JE12H	2.37 (67)	1.59 (45)	72	26 (660)	3 (1.4)
MTY-2-15	JE15H	3.53 (100)	2.47 (70)	72	26 (660)	3 (1.4)
MTY-2-15-FB	JE15H	3.53 (100)	2.47 (70)	72	26 (660)	3 (1.4)
MTY-2-20	JE20H	6.36 (180)	4.41 (125)	72	26 (660)	3 (1.4)
MTY-2-20-FB	JE20H	6.36 (180)	4.41 (125)	72	26 (660)	3 (1.4)
MTY-2-25	JE25H	9.53 (270)	7.06 (200)	72	26 (660)	3 (1.4)
MTY-2-25-FB	JE25H	9.53 (270)	7.06 (200)	72	26 (660)	3 (1.4)

Optional Remote Mounted Switch and Tubing	
MTY-SW	Optional Remote Mounted Switch Mounted - Mounts in a 5/8" Hole.
PC-T14	Remember to purchase PC-T14 Tubing - Sold Separately - (Keep in mind that you need to specify a length of tubing long enough for both incoming and outgoing control)



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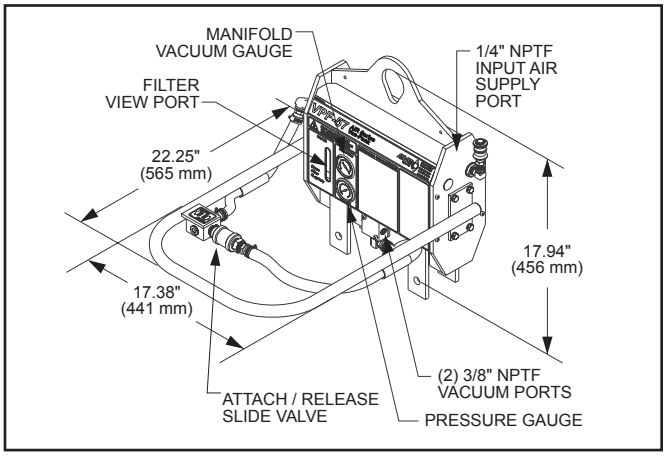
ANVER CORPORATION

Vac-Pack Vacuum Generator

Air Powered

132 00 367
Control Number 022704C



VPF-57 AIR Series

ANVER's latest models of vacuum generators feature high capacity pumps, valves, filters and gauges for trouble-free operation in the most demanding production environments. Designed for use with a wide assortment of vacuum lifter assemblies and interchangeable pad attachments. These high quality Vac-Packs are ruggedly built, yet affordably priced for unmatched value. The VPF-57 AIR Series features a sturdy welded frame construction for heavy weight load lifting capability.

Features:

- **Air Powered Vacuum Generator**
  No electric power required, operates using dry, clean compressed air for vacuum generation. The vacuum generator is a single stage unit with no moving parts or rubber gaskets to maintain or replace.

- **Front Mounted Gauges**
  Includes both an input air pressure and vacuum indicator gauges, front mounted for continuous monitoring by the operator. Also included is a filter view port to monitor filter for cleaning.

- **Ergonomic Front Handlebar**
  Easy to grasp, large loop handlebar allows the operator to easily and safely maneuver the attached load without pushing on the load itself.

- **Slide Control Valve**
  The slide valve permits rapid vacuum attach and release and is mounted to the handlebar for convenient access by the operator.

- **Vacuum Check Valve and Reservoir**
  A check valve and a vacuum reservoir help to maintain vacuum if the supply of compressed air is interrupted, for safe handling of non-porous loads.

- **Takes Standard Dry, Clean Shop Air**
  Input Pressure to be regulated to 75 psi. Provided with 1/4" NPT input air supply connector and shut-off slide valve.

Maintenance:

- **Air Filter**
  Oversized air filter provided inside the front cover features a screw-on clear filter bowl for easy filter cleaning.

General:

- **Standard Frame Construction**
  The VPF-57 AIR Series has a fully welded frame with a vacuum reservoir and load lifting capacity rating of 2,200 lb. (998 kg) for 3" sq. beams.

- **(Optional) Heavy Duty Frame Construction Available**
  Load lifting capacity rating of 4,100 lb. (1,860 kg) for 3" x 6" beams. Consult factory for application requirements.

- **Versatility**
  For larger load lifting capability or alternate power requirements, ANVER offers electric powered and self-powered mechanical vacuum generators, all with standard mounting designs for interchangeability.

Options:

- **Optional Vacuum Leakage Sensing System (VLS-07)**
  The VLS-07 Series are battery powered units consisting of solid state circuitry with microcontroller, pressure sensor, LCD digital display of inches of Hg, warning audible horn and red light. System is plumbed to the Vac-Pack and monitors vacuum level triggering the alarm in the event of unsafe vacuum level.

- **Optional Water Trap (WT-PF)**
  For wet applications: prevents saturation of filter and possible damage to vacuum generator.

Specifications:

Vac-Pack Model No.	Vacuum Flow (scfm)	Air Consumption (scfm)	Req. Input Pressure (psi)	Unit Weight lb. (Kg)	Vacuum Level (Sea Level)	Application	Beam Size
VPF-57/20-AIR (Standard)	4.3	6.5	75	60 (27.2)	24" Hg	Most smooth, non-porous materials	3" Sq.
VPF-57/25-AIR	7.0	9.5			Consult Factory	Rough or semi-porous materials, wood, stone etc.	
VPF-57/30-AIR	9.2	14.0					
VPF-57/20HD-AIR	4.3	6.5	75	60 (27.2)	24" Hg	Most smooth, non-porous materials	3" x 6"
VPF-57/25HD-AIR	7.0	9.5			Consult Factory	Rough or semi-porous materials, wood, stone etc.	
VPF-57/30HD-AIR	9.2	14.0					

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Vacuum Pumps and Vacuum Generators

Compressed Air Powered Vacuum Stations

AP Series Vacuum Stations

With Unique All Pneumatic Energy Saver Circuitry that Shuts Off the Compressed Air Supply Line When Vacuum Is Achieved for More Economical Operation

Features:

- All Pneumatic Energy Saver Circuitry automatically shuts off the compressed air consumption when the proper vacuum level is achieved
- A Complete Vacuum Station with whisper-quiet air pump, vacuum reservoir, muffler and controls
- Dry, oil-free air pump avoids contamination
- Generates Vacuum Levels of up to 27 in. Hg

AP Series Vacuum Station Controls include:

- Ball valve for Vacuum Attach-Release
- Adjustable vacuum switch to control vacuum level
- Vacuum gauges, vacuum reservoir and manifolds
- Air Regulator with gauge and check valve
- Vacuum Line Filter
- 10, 20, and 30 gallon reservoirs are standard. For custom sizes, please consult factory.

ANVER Item No.	Reservoir Size Gallons (liters)	Output Pipe	Venturi Type	Flow scfm (L/min)	Consumption scfm (L/min)	Length in (mm)	Dia. in (mm)	Height in (mm)	Weight lb (kg)
AP-10G30	10 (38)	1/2” NPT	JB30	9.25 (394)	13.9 (590)	36 (914)	10 (254)	17.5 (445)	50 (23)
AP-20G30	20 (76)	1/2” NPT	JB30	9.25 (394)	13.9 (590)	38 (965)	14 (356)	24 (610)	76 (34)
AP-30G30	30 (114)	3/4” NPT	JB30	9.25 (394)	13.9 (590)	43 (1092)	16 (406)	25 (635)	113 (51)

*scfm flow and consumption shown at optimum operating pressure of 5bar = 72.5 psi.

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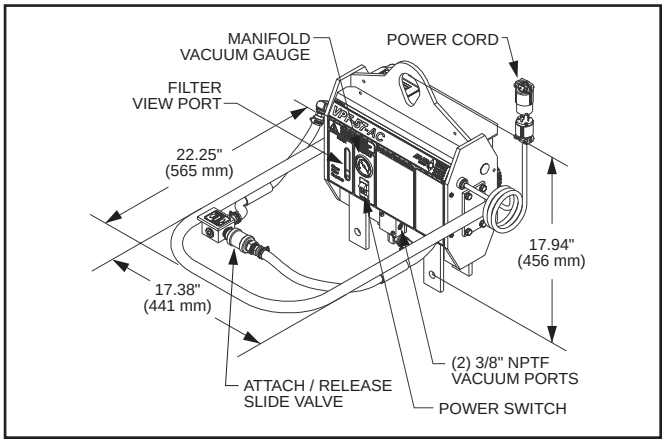
Vac-Pack Vacuum Generator

Electric Powered

132 00 330

Control Number: 112403C

VPF-57-AC Series



ANVER's latest models of vacuum generators feature high capacity pumps, valves, filters and gauges for trouble-free operation in the most demanding production environments. Designed for use with a wide assortment of vacuum lifter assemblies and interchangeable pad attachments. These high quality Vac-Packs are ruggedly built, yet affordably priced for unmatched value. The VPF-57-AC features a sturdy welded frame construction for heavy weight load lifting capability.

Features:

- **Front Mounted Controls and Gauges**
  Vacuum gauge is mounted on front cover for continuous monitoring by operator. The power switch includes built-in circuit breaker. Also included is a filter view port to monitor filter for cleaning.

- **Ergonomic Front Handlebar**
  Easy to grasp, large loop handlebar allows the operator to easily and safely maneuver the attached load without pushing on the load itself.

- **Slide Control Valve**
  The slide valve allows rapid vacuum attach and release and is mounted to the handlebar for convenient access by the operator.

- **Vacuum Check Valve and Reservoir**
  A check valve with vacuum reservoir helps to maintain vacuum if electrical power is interrupted, for safe handling of non-porous loads.

- **Twistlock Power Cord Plug and Receptical**
  Both Twistlock plug and receptical are provided to prevent accidental power cord separation.

Maintenance:

- **Oil-Less Dry Piston Vacuum Pump Motor**
  Powerful ½ horsepower motor drives a high-performance 4.3 CFM dry piston vacuum pump.

- **Air Filter**
  Oversized air filter provided inside the front cover features a screw-on clear filter bowl for easy filter cleaning.

General:

- **Vacuum Pump Description**
  High-performance oil-less dry piston pump has a ½ hp motor capable of generating 4.3 cfm. Motor is thermally protected and is rated for 100% duty cycle.

- **Standard Frame Construction**
  The VPF-57-AC Series has a fully welded frame with a vacuum reservoir and load lifting capacity rating of 2,200 lb. (998 kg) for 3" sq. beams.

- **(Optional) Heavy Duty Frame Construction Available**
  Load lifting capacity rating of 4,100 lb. (1,860 kg) for 3" x 6" beams. Consult factory for application requirements.

- **Versatility**
  For larger load lifting capability or alternate power requirements, ANVER also offers other electric, air powered, and self-powered mechanical vacuum generators. All units are provided with modular standard mounting designs for interchangeability.

Options:

- **Optional Vacuum Leakage Sensing System (VLS-07)**
  The VLS-07 Series are battery powered units consisting of solid state circuitry with microcontroller, pressure sensor, LCD digital display of inches of Hg, warning audible horn and red light. System is plumbed to the Vac-Pack and monitors vacuum level triggering the alarm in the event of unsafe vacuum level.

- **Optional Water Trap (WT-PF)**
  For wet applications: prevents saturation of filter and possible damage to pump.

Specifications:

Vac-Pack Model No.	Pump Cap. (scfm)	Vacuum Pump hp	Vacuum Level (Sea Level)	Unit Weight lb.	(kg)	Incoming Power Requirement AC	Beam Size
VPF-57-AC	4.3	½	24" Hg	68	(30.8)	115V/60Hz/1ph/6amps	3" Sq.
VPF-57-AC240	4.3	½	24" Hg	68	(30.8)	220-240V/50Hz/1ph/3amps	3" Sq.
VPF-57HD-AC	4.3	½	24" Hg	68	(30.8)	115V/60Hz/1ph/6amps	3" x 6"
VPF-57HD-AC240	4.3	½	24" Hg	68	(30.8)	220-240V/50Hz/1ph/3amps	3" x 6"

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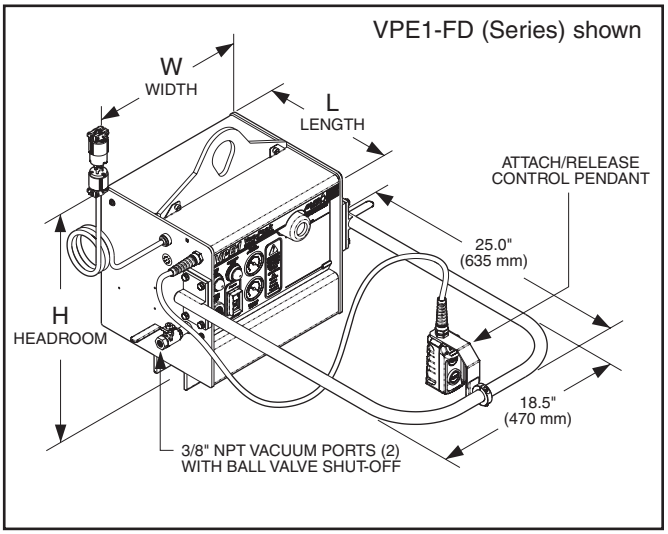
Vac-Pack Vacuum Generator

Electric Powered

132 00 279
Control No.: 061405K



VPE1 Series

with ANVER VacGuard II™ Vacuum Control System

ANVER's VPE1 Series Vac-Packs feature dual vacuum ports, over-sized filters and increased air flow, making them particularly suitable for handling non-porous to semi-porous loads. Designed for use with a wide assortment of vacuum pad attachments and lifter assemblies, these high quality Vac-Packs are ruggedly designed for heavy production use. Units are available with heavy duty frames, for mounting remotely, on pillars, or on overhead trolleys.

Features:

- **VacGuard II Vacuum Control System**
  This revolutionary solid-state Vacuum Control System combines all the required vacuum generator controls in a rugged, compact polycarbonate enclosure. The VacGuard II controls all vacuum pump functions, safety lights and can be fitted with an optional audible vacuum leakage warning system.
- **Front Control Panel and Gauges**
  All gauges, lights and power switches are mounted on the front of the control panel. The two vacuum gauges on the face of the panel display the level of vacuum in the manifold and in the reservoir. The control pendant clip mounts to the front handle on a 10 ft. coiled cord and provides rapid attach and release functions at the operator's fingertips.
- **Indicator Lights**
  Green light indicates, "safe" vacuum level.
  Red light indicates, "unsafe" vacuum level.
- **Vacuum Retention**
  The system includes an internal check valve to halt loss of supply side vacuum in the event of a power failure. A vacuum reservoir assists in maintaining a safe vacuum level during a power failure.
- **Thermal Overload Protection**
  Heat damage is prevented by a thermal sensor that shuts off the motor if the motor temperature exceeds safe limits.
- **Ergonomic Control Handlebar**
  Easy to grasp, large loop handlebar keeps operator safely away from load, holds the control pendant, and positions the operator for easy viewing of all gauges, lights and instructions. Handlebar is removable.
- **Twist-Lock Power Cord Connectors**
  The Twist-lock receptacles, both the male and female are supplied, prevent accidental disconnection from the power source.
- **Audible Vacuum Leakage Warning System (VLS-03E)**
  Integrated electronically controlled vacuum leakage sensor monitors vacuum level and triggers a visual and audible alarm in the event of an unsafe vacuum level.

Maintenance:

- **Bottom Hinged Front Cover & Rear Hinged Top-Back Panel**
  The front cover folds open for easy access to all components.
- **Air Filter**
  Oversized air filter provided inside of front cover features a screw-on clear filter bowl for easy filter cleaning.

Vacuum Pump*:

- Two oil-less pumps are available. Each are thermally overload protected and requires 115V/60HZ-1ph 15 amp service.

  Standard Pump (D):
  Dry piston pump with ½ hp motor shuts off above preset vacuum levels, restarts automatically and generates up to 4.3 cfm.

  Optional Feature (R):
  Continuous running pump in the attach mode for use on semi-porous loads.

*** Note: ANVER VacGuard II Control System not available with vacuum generators used as overhead trolley configuration or pillar mounted configuration.**

Specifications:

- The Standard Duty Frame is nominally rated for 2200 lb (997.9 kg) and is designed for mounting on a 3" x 3" beam. Unit weighs approximately 95 lb (43 kg).
- The Heavy-Duty Frames are nominally rated for 4600 lb (2078 kg), designed for a 3" x 6" or 5" x 7" beam. Unit weighs approximately 115 lb (52 kg).

Options:

- **Optional Water Traps (WT-VP1-[Series])**
  For wet applications: prevents saturation of filters and possible damage to pumps.

Overall Dimensions:

Lifting Frame	W = Width In. (mm)	L = Length In. (mm)	H = Height In. (mm)
* (F) Standard	14.6 (371)	12.4 (315)	19.63 (499)
(H) Heavy Duty	18.9 (479)	12.4 (315)	21.56 (548)
(X) Heavy Duty	18.9 (479)	12.4 (315)	21.94 (557)
(R) Remote	14.6 (371)	12.4 (315)	14.81 (376)

* Note: Front handlebar not supplied with (R) Remote Generator.

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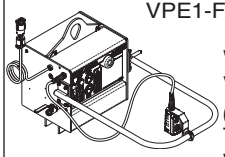
VPE1-XDR

Electric Vacuum Station

VPE1-FD (Series) shown

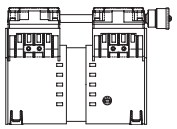


With ANVER VacGuard II™ Vacuum Control System (#VS35000018)
This integrated solid state vacuum control is standard with all VPE1 Series Vac-Packs

VLS-03E is standard on VPE1 Series.

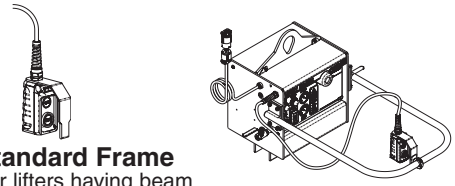
R — **Optional Feature**
Continuous running pump in the attach mode for use on semi-porous loads.

Truncate 'R' if feature is not needed.

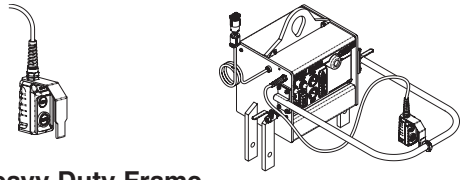


D — **Dry Piston Pump (Standard)**
Dry Piston Pump with ½ hp motor shuts off and restarts at preset vacuum levels, generating up to 4.3 cfm. Power supply required: 115V-60Hz-1ph 15 amp circuit.

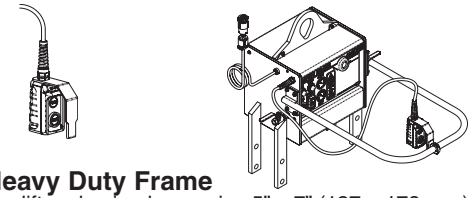
F — **Standard Frame**
For lifters having beam size 3" x 3" (76 mm sq.) and lifting capacity* up to 2200 lb (997.9 kg).



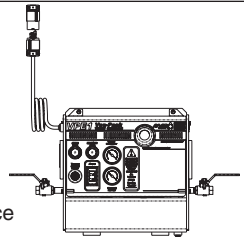
H — **Heavy Duty Frame**
For lifters having beam size 3" X 6" (76 x 152 mm) lifting capacity up to 4600 lb (2078 kg).



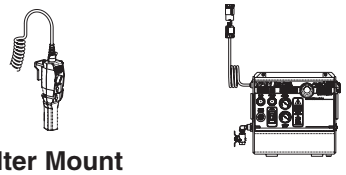
X — **Heavy Duty Frame**
For lifters having beam size 5" x 7" (127 x 178 mm) and lifting capacity up to 4600 lb (2078 kg).



R — **Remote Mount**
This unit has no bail, and will mount on a flat surface with (4) 5/16-18 UNC tapped holes.

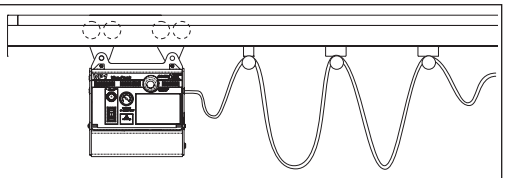


T — **Tilter Mount**
Same as remote mount, but pendant has an extra switch to control an electric tilt actuator. Mounted with (4) 5/16-18 UNC tapped holes.

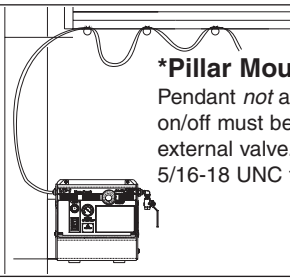


*** Note: ANVER VacGuard II Control System not available with vacuum generators used as overhead trolley configuration or pillar mounted configuration.**

O — ***Overhead Trolley** (Model VP1-OD)*
Pendant *not* available, vacuum on/off must be controlled by an external valve.



P — ***Pillar Mounted** (Model VP1-PD)*
Pendant *not* available, vacuum on/off must be controlled by an external valve. Mounted with (4) 5/16-18 UNC tapped holes.

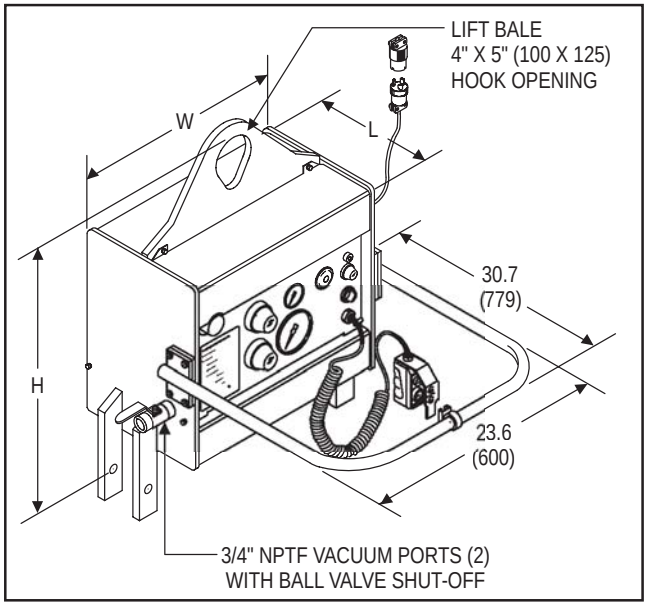


Note: Capacities shown are approximations, actual capacity is dependent upon the lifting application.

Vac-Pack Vacuum Generator

Electric Powered

132 00 280
Revision: B
January 3, 2002



VPE3 Series

with ANVER VacGuard™
Vacuum Control System

ANVER's VPE3 Series Vac-Packs are exceptionally versatile. They have many built-in safety features, and can be configured for remote operation.

Options

- Heavy-Duty Frame
- Optional Water Traps for Wet Applications: Prevents Saturation of Filters and Possible Damage to Pumps
- Remote Configuration

Safety Features

- **VacGuard Vacuum Control System**
  This revolutionary solid-state Vacuum Control System combines all the required vacuum generator controls in a rugged, compact ABS enclosure. The VacGuard controls all vacuum pump functions, safety lights and includes an audible vacuum leakage warning system.
- **Audible Vacuum Leakage Warning System**
  Integrated electronically controlled vacuum leakage sensor monitors vacuum level and triggers a visual and audible alarm in the event of an unsafe vacuum level.
- **Indicator Lights**
  Green light indicates, "safe" vacuum level.
  Red light indicates, "unsafe" vacuum level.
- **Vacuum Retention**
  The system includes an internal check valve to halt loss of supply side vacuum in the event of a power failure. A 3.5 gallon, 822 cu. in. (13 liter) vacuum reservoir assists in maintaining a safe vacuum level during a power failure.
- **Front Control Panel and Gauges**
  All gauges, lights and power switches are mounted on the front of the control panel. The two vacuum gauges on the face of the panel display the level of vacuum in the manifold and in the reservoir. The control pendant clip mounts to the front handle on a 12 ft. coiled cord and provides rapid attach and release functions at the operator's fingertips.
- **Thermal Overload Protection**
  Heat damage is prevented by a thermal sensor that shuts off the motor if the motor temperature exceeds safe limits.
- **Twist-Lock Power Cord Connectors**
  The Twist-lock receptacles, both the male and female are supplied, prevent accidental disconnection from the power source.

Maintenance

- **Gull-Wing Covers, Front and Rear**
  Enclosure folds open to allow easy access to all components.
- **Clear Filter Cover, 2 Places**
  Located on the front and at the rear of the unit, the filter covers are clear for quick inspection and screw off for easy cleaning.

Vacuum Pump

- Pump has a 3/4 Hp oil-less motor and requires 115V-60Hz-1 phase 13 amp power supply.
  Pump shuts off above preset vacuum levels, restarts automatically, and generates up to 10 cfm.

Specifications

- Standard Frame is rated up to 6900 lb (3130 kg), for 3" x 6" beam. Unit weight is approximately 185 lb (84 kg).
- Heavy-Duty Frame is rated for 8000 lb (3629 kg), for 5" x 7" beam. Unit weight is approximately 195 lb (88 kg).
- Remote mount frame (No Lift Bail). Unit weight is approximately 165 lb (75 kg).

Overall Dimensions:

Lifting Frame	W = Width In. (mm)	L = Length In. (mm)	H = Headroom In. (mm)
(S) Standard	24.4 (619)	12.4 (315)	28.6 (726)
(H) Heavy Duty	24.4 (619)	12.4 (315)	29.1 (739)
(L) Light Duty	20.4 (518)	12.4 (315)	26.8 (681)

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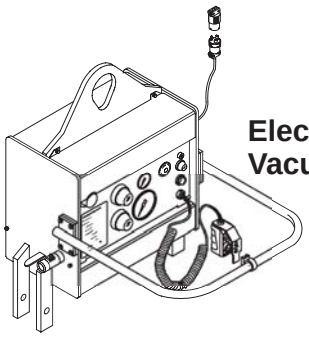
VPE3-X



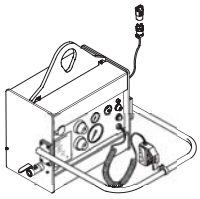
Electric Vacuum Generator

VPE3-S shown

With ANVER VacGuard™ Vacuum Control System (VS31000010)

This integrated solid state vacuum control with leakage sensor warning system is standard on all VPE3 Series Vac-Packs.

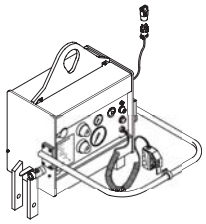
L



Light Duty Frame

For use with lifters typically using the VPE1 series mounting, but with the benefit of larger pump, indicating lights and vacuum reservoir. 3” (76 mm) square beam and lifting capacity up to 2200 lbs (1000 Kg).

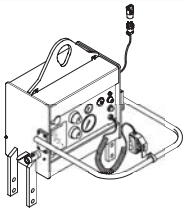
S



Standard Duty Frame

For lifters having a beam size of 3” x 6” (76 X 152 mm) rectangular tubing and lifting capacity up to 6,900 lb (3130 kg).

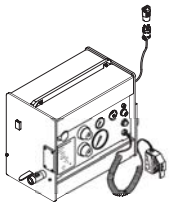
H



Heavy Duty Frame

For lifters having beam size of 5” x 7” (127 X 178 mm) and lifting capacity up to *8,000 lb* (3629 kg) or more. Check with factory.

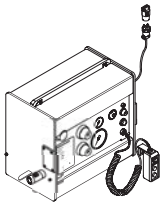
R



Remote Mount

This unit has no bale and will mount on a flat surface using four (4) 5/16-18 UNC tapped holes.

T



Remote Mount For Tilter

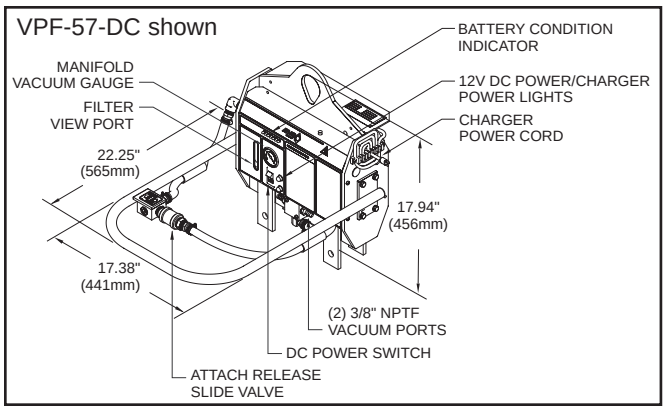
Same as the Remote Mount, but pendant has an extra switch to control an electric tilt actuator or hydraulic cylinder.

Vac-Pack Vacuum Generator

Battery Powered

132 00 388

Control Number: 081104H



VPF-57-DC Series

ANVER's VPF-57-DC Series Vac-Pack Vacuum Generator contains the same features as the standard VPF-57-AC Series but includes a heavy duty rechargeable 12 volt DC battery, making it suitable for handling non-porous loads. It is commonly used for special applications where AC power is not readily available.

Features:

- **Front Mounted Controls and Gauges**
  Vacuum gauge is mounted on front cover for continuous monitoring by operator. Also included is a filter view port to monitor filter for cleaning.
- **Indicator Lights**
  - Amber light indicates "power on" for Vac-Pack Vacuum Generator.
  - Red light indicates "charger-on" for battery charger.
- **Ergonomic Front Handlebar**
  Easy to grasp, large loop handlebar allows the operator to easily and safely maneuver the attached load without pushing on the load itself.
- **Attach and Release Controls**
  VPF-57-DC (Standard): Slide valve allows rapid vacuum attach and release.
  VPF-57-DCP (Optional): Attach and release push-button located on control pendant with 8ft long coiled cord.
  Both styles are mounted to the handlebar for convenient access by the operator.
- **Vacuum Check Valve and Reservoir**
  A check valve with vacuum reservoir helps to maintain vacuum if electrical power is interrupted, for safe handling of non-porous loads.
- **Automatic Vacuum Control for Vacuum Pump**
  When Vac-Pack reaches preset vacuum level, the vacuum pump will automatically stop running. During the lift cycle, if the Vac-Pack resevoir loses some of its vacuum, the vacuum pump will automatically restart and run until original preset vacuum level is attained. This control will reduce battery draw to acheive full-shift operation.
- **Battery Charger (GC-CHARGE-15)**
  Integrated 1.5 amp battery charger is an advanced battery charger designed specifically for today's high performance deep-cycle AGM batteries. It provides microprocessor controlled three-step charging. A male receptacle is supplied to plug into a standard outlet. The charger is interlocked to prevent Vac-Pack from being used during charging. A "charger on" indicator light located on front cover of Vac-Pack will illuminate when battery is being charged.

Maintenance:

- **Oil-Less Diaphragm Vacuum Pump Motor**
  Powerful 1/5 horsepower motor drives a 1.12 CFM diaphragm vacuum pump.
- **Air Filter**
  Oversized air filter provided inside the front cover features a screw-on clear filter bowl for easy filter cleaning.

General:

- **Vacuum Pump Description**
  High-performance oil-less diaphragm pump has a 1/5 hp motor capable of generating 1.12 cfm. Motor is rated for 100% duty cycle.
- **Standard Frame Construction**
  The VPF-57-DC Series has a fully welded frame with a vacuum reservoir and load lifting capacity rating of 2,200 lb. (998 kg) for 3" sq. beams.
- **Battery Specifications**
  - 12 amp hour, sealed battery can provide full 8 hour shift operation in many applications.
- **Versatility**
  For larger load lifting capability or alternate power requirements, ANVER also offers other electric, air powered, and self-powered mechanical vacuum generators. All units are provided with modular standard mounting designs for easy interchangeability.

Options:

- **Optional Vacuum Leakage Sensing System (VLS-07)**
  The VLS-07 Series are battery powered units consisting of solid state circuitry with microcontroller, pressure sensor, LCD digital display of inches of Hg, warning audible horn and red light. System is plumbed to the Vac-Pack and monitors vacuum level triggering the alarm in the event of vacuum leakage detection.
- **Optional Water Trap**
  For wet applications: prevents saturation of filter and possible damage to pump.

Specifications:

Vac-Pack Model No.	Attach/Release Control	Pump Cap. (scfm)	Vacuum Pump hp	Vacuum Level (Sea Level)	Unit Weight lb. (kg)	Generator Power	Incoming Power Requirement for Charger	Beam Size
VPF-57-DC (Standard)	Slide Valve	1.12	1/5	24" Hg	80 (36)	12V DC @ 12amp	120V/1PH/60Hz	3" Sq.
VPF-57-DCP (Optional)	Control Pendant							

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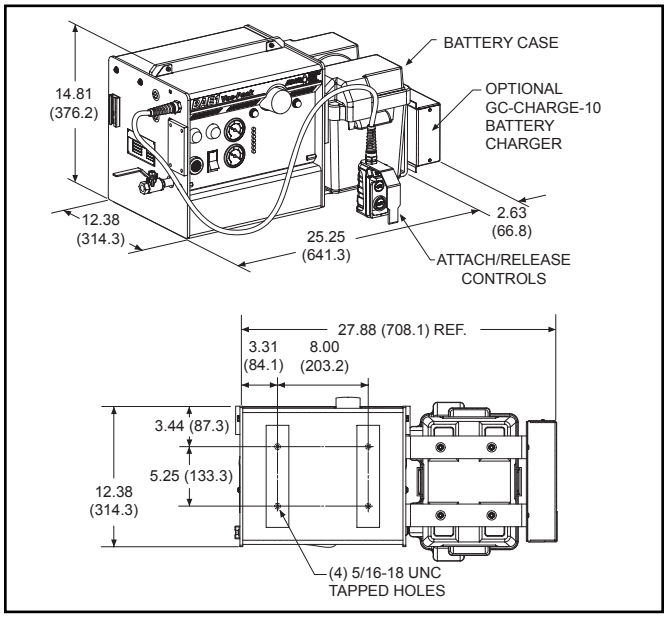
Vac-Pack Vacuum Generator

Battery Powered



132 00 296 • Revision: B
Effective Date: 02-11-03

BAE1 Series

with ANVER VacGuard™ Vacuum Control System

ANVER's BAE1 Series Vac-Pack Vacuum Generator contains the same features as the standard VPE1 Series but includes a heavy duty rechargeable 12 volt DC battery, making it suitable for handling non-porous loads. It is commonly used for special applications where AC power is not readily available.

ANVER Item No.	Description
BAE1-RA	Remote Vacuum Station, Battery Powered

Features:

- **VacGuard™ Vacuum Control System**
  This revolutionary solid-state Vacuum Control System combines all the required vacuum generator controls in a rugged, compact ABS enclosure. The VacGuard controls all vacuum pump functions, safety lights and can be fitted with an optional audible vacuum leakage warning system.
- **Front Controls and Gauges:**
  All controls and gauges are mounted on the front of the unit for easy access and viewing. The control pendant provides attach/release at the operator's fingertips. Gauges indicate the level and stability of vacuum in the manifold and vacuum reservoir.
- **Indicator Lights**
  - Amber light indicates "power on" for Vac-Pack Vacuum Generator.
  - Green light indicates, "safe" vacuum level.
  - Red light indicates, "unsafe" vacuum level.
  - Battery charge indicator.
- **Vacuum Retention**
  An internal check valve is included to prevent vacuum loss through the manifold in the event of a power failure. A vacuum reservoir assists in maintaining a safe vacuum level during a power failure.

Maintenance:

- **Bottom Hinged Front Cover and Removable Top Back Cover**
  For easy access to all components
- **Clear Air Filter Cover:**
  Located on the front of the unit, the filter cover is clear for quick inspection and unscrews for easy cleaning.

Frame Configuration:

- **Standard Vac-Pack frame arranged for remote mounting**

Vacuum Pump Specifications:

- The 2.2 CFM piston pump is driven by a 1/3 HP motor that operates on 12 volts DC. The VacGuard Vacuum Control System continuously attempts to maintain a safe vacuum level by cycling the vacuum motor/pump on or off as required. The VacGuard high and low vacuum limits are preset at the factory.
- Weight: 156 lb

Battery Specifications:

- 80 amp hour, sealed battery can provide full 8 hour shift operation in many applications.
- Includes battery case with mounting brackets.

Options:

- **Audible Vacuum Leakage Warning System (VLS-03E)**
  Integrated electronically controlled vacuum leakage sensor monitors vacuum level and triggers a visual and audible alarm in the event of an unsafe vacuum level.
- **Other BAE1 Series Frame Configurations**
  Different frame configurations are available - consult factory for further information.
- **Battery Charger (GC-CHARGE-10)**
  Integrated 10 hw battery charger is an advanced battery charger designed specifically for today's high performance deep-cycle lead-acid batteries. It provides microprocessor controlled three-step charging. The Twist-lock receptacles, both the male and female are supplied, prevent accidental disconnection from the 110V AC power source. The charger is interlocked to prevent Vac-Pack from being used during charging. A "charger on" indicator light located on front cover of Vac-Pack will illuminate when battery is being charged.
- **Other Batteries**
  100 amp hour sealed batteries are available to increase operation duration or for heavy duty applications.

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Vacuum Pumps and Vacuum Generators

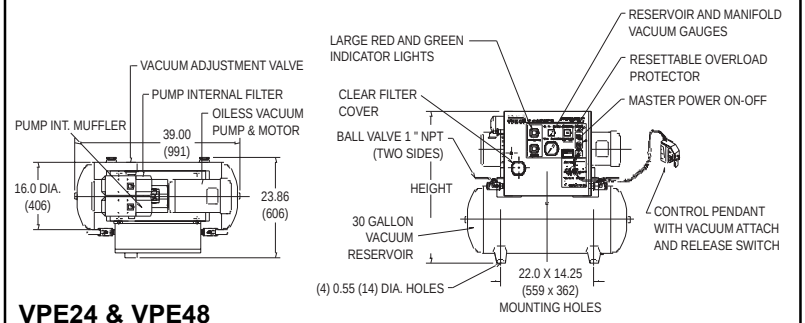
Electric Vac-Packs

VPE Series Self-Contained Vacuum Stations

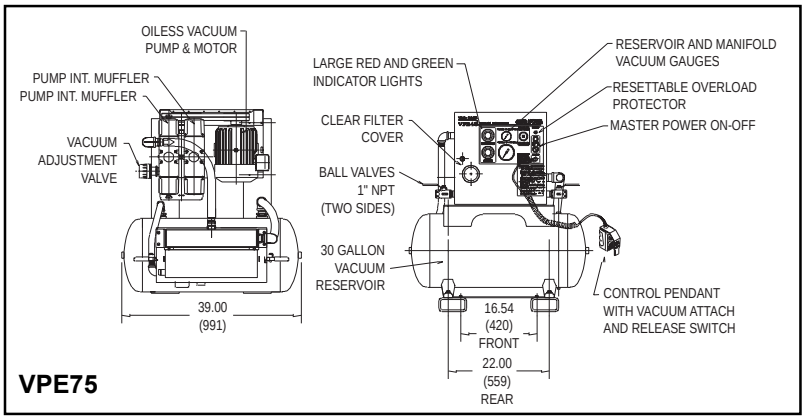
Features:

- Complete Vacuum Station with quiet pump, reservoir and all necessary controls
- Dry, oil-free pump avoids contamination
- Controls include:
  - Power on-off switch
  - Adjustable vacuum switch to control vacuum level
  - Vacuum gauges, reservoir and manifolds
  - Adjustable red/green indicator lights and adjustable low vacuum warning horn
  - Pendant switch attach/release

Available Voltage	PMP-24	PMP-48	PMP-75
115-1-60	X	X	
230-1-60	X	X	X
230-3-60	X	X	X
460-3-60	X	X	X
575-3-60	X	X	X
110-1-50	X	X	
220-1-50	X	X	X
220-3-50	X	X	X
380-3-50	X	X	X
440-3-50	X	X	X
575-3-50	X	X	X



VPE24 & VPE48



VPE75

ANVER Item No.	Vacuum Flow at 60 Hz SCFM (l/min.)	Vacuum Flow at 50 Hz SCFM (l/min.)	Max. Vacuum in. Hg (mm Hg)	Motor HP (kW)	H Height in. (mm)	Weight lb. (Kg)
VPE24	24 (680)	20 (566)	26.5 (67.3)	1.5 (1.1)	35.38 (899)	295 (134)
VPE48	50 (1416)	40 (1133)	25.0 (63.5)	3 (2.2)	35.38 (899)	425 (193)
VPE75	75 (2124)	65 (1841)	25.0 (63.5)	5 (3.7)	43.13 (1100)	655 (297)

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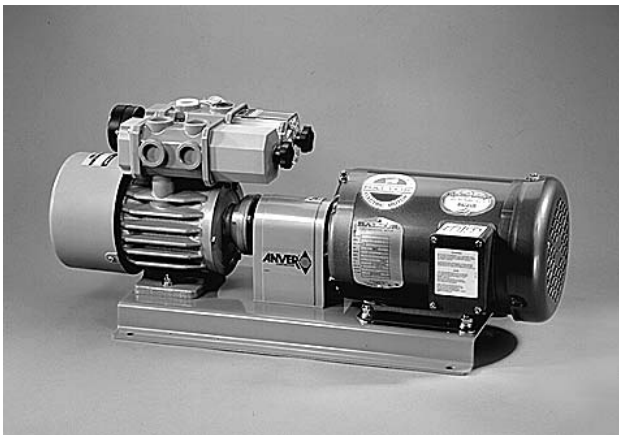
Vacuum Pumps and Generators

PMP Series Dry Rotary Vane Vacuum Pumps

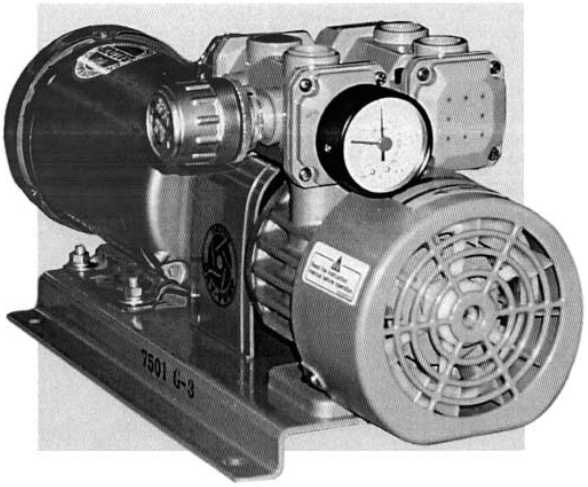


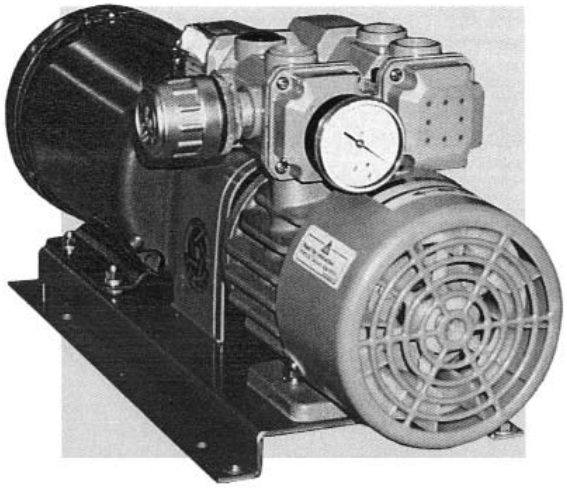
ANVER's PMP-17, 24, 48, 75 and 100 Series Rotary Vane Electric Vacuum Pumps

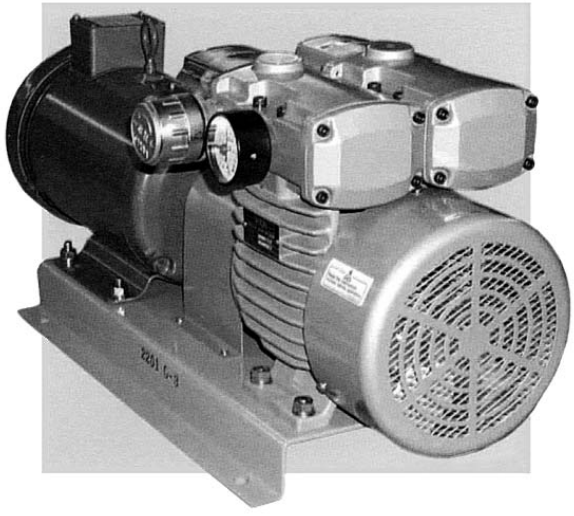
are quiet and durable vacuum pumps offering superior performance and exceptional reliability.

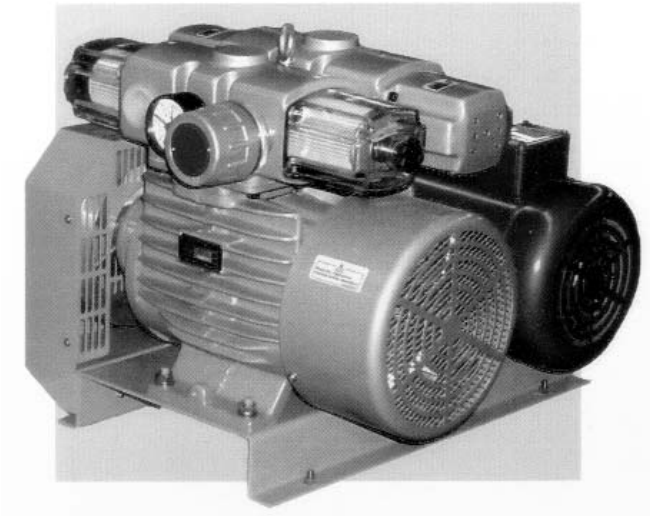
These state-of-the-art oil-free pumps compare favorably with lubricated pumps in noise levels and service, while eliminating the danger of contamination.

The pumps do not emit oil fumes, thereby creating a safer working environment and ensuring the purity of product so important in the food, medical, electronics and printing industries.









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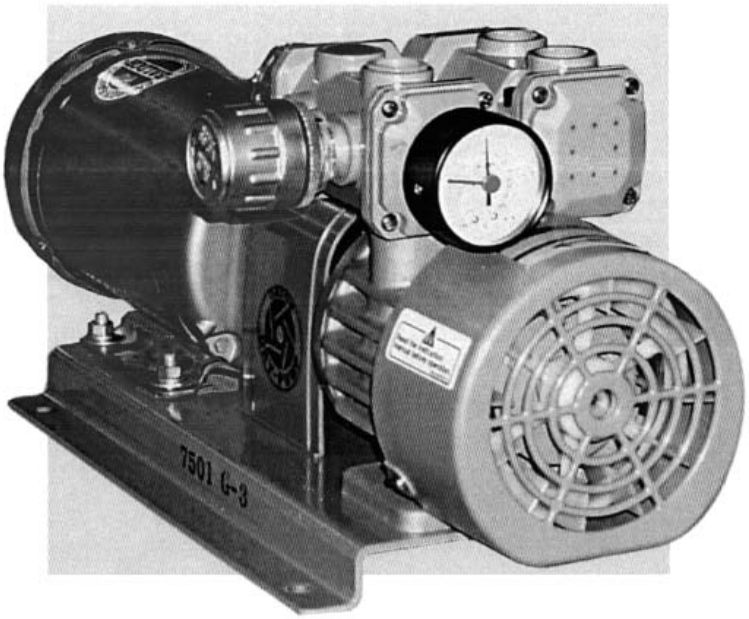
Vacuum Pumps and Vacuum Generators

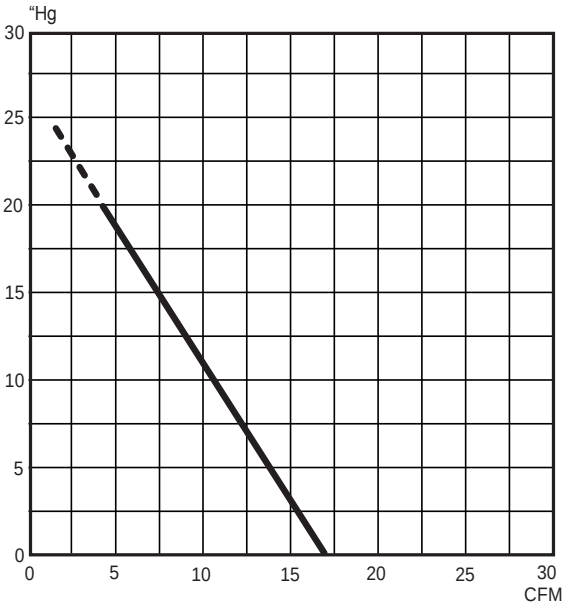
Dry Rotary Vane Vacuum Pumps / PMP-17



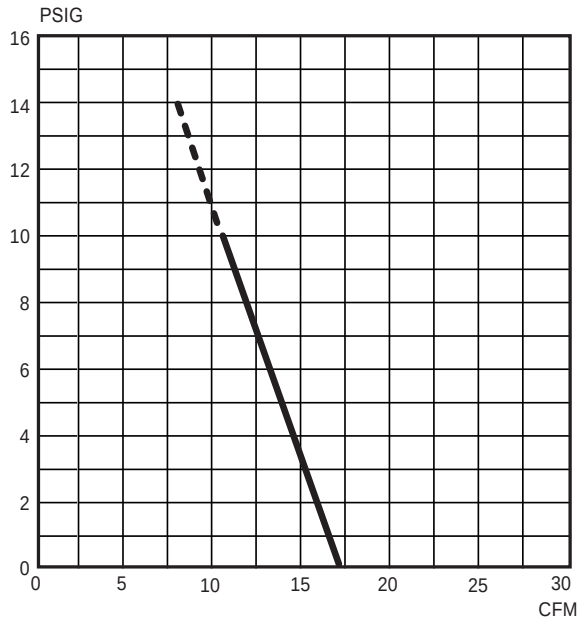
Features:

- Oil free
- Maintenance free
- Operates quietly-maximum 70 dB (A)
- Cooler running outboard bearings increase service life
- Built-in particulate filters and silencers
- Compact lightweight design
- Handles vacuum and/or pressure applications
- Ideal alternative to standard oil sealed rotary vane pumps

Performance Curves: 60Hz
Vacuum



Pressure



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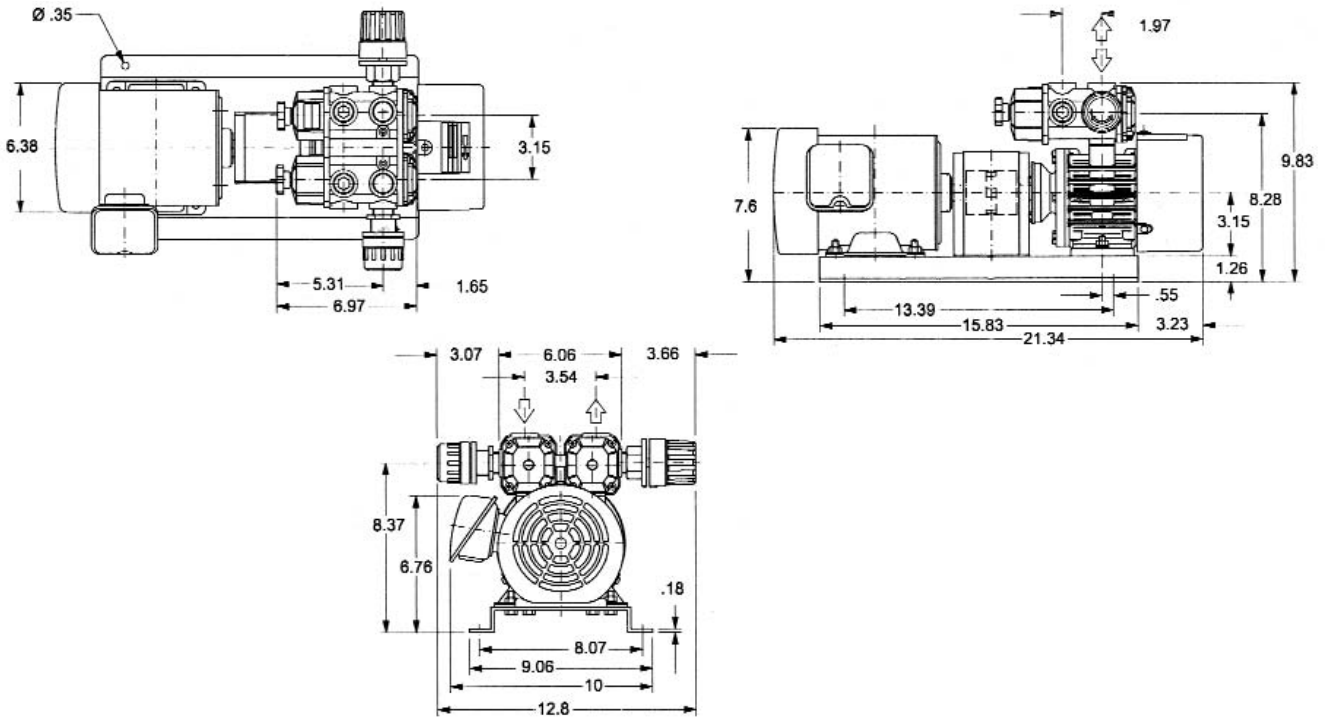
Vacuum Pumps and Vacuum Generators

Dry Rotary Vane Vacuum Pumps / PMP-17



Motor	RPM	Motor HP (Kw)	Vacuum Flow (CFM)	Max. in. Hg	lb (kg)
w/o motor	-	-	17	25"	55 (25)
230/460V	1750	1	17	25"	72 (20)
115/230V	1750	1	17	25"	72 (20)

Motor	RPM	Motor HP (Kw)	Vacuum Flow (CFM)	Max. PSI	lb (kg)
w/o motor	-	-	17	14psig	55 (25)
230/460V	1750	1	17	14psig	72 (20)
115/230V	1750	1	17	14psig	72 (20)

NOTES:
a. Standard voltage for three phase pump is 230/460V 3ph 60Hz
b. Standard voltage for single phase pump is 115/230/1ph 50/60Hz
c. All pumps available in 208V/3ph/60Hz and 575 Volt 50/60 Hz. Contact factory for more information.

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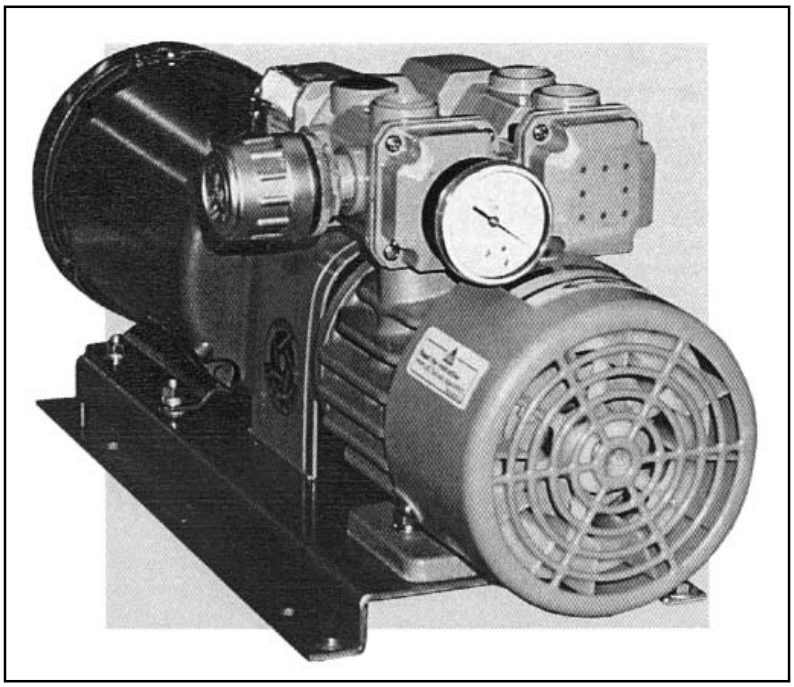
Vacuum Pumps and Vacuum Generators

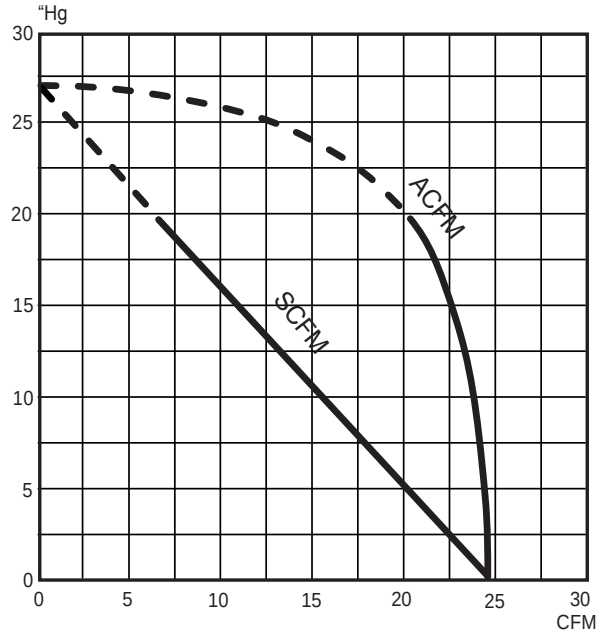
Dry Rotary Vane Vacuum Pumps / PMP-24



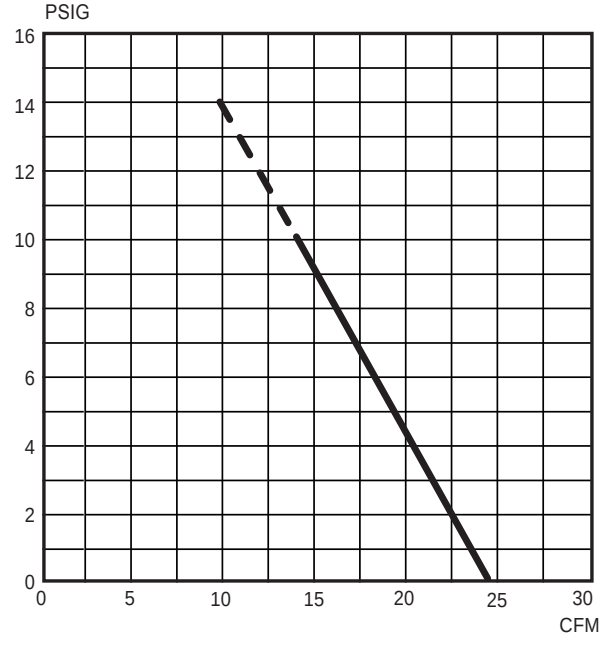
Features:

- Oil free
- Maintenance free
- Operates quietly-maximum 70 dB (A)
- Cooler running outboard bearings increase service life
- Built-in particulate filters and silencers
- Compact lightweight design
- Handles vacuum and/or pressure applications
- Ideal alternative to standard oil sealed rotary vane pumps

Performance Curves: 60Hz
Vacuum



Pressure



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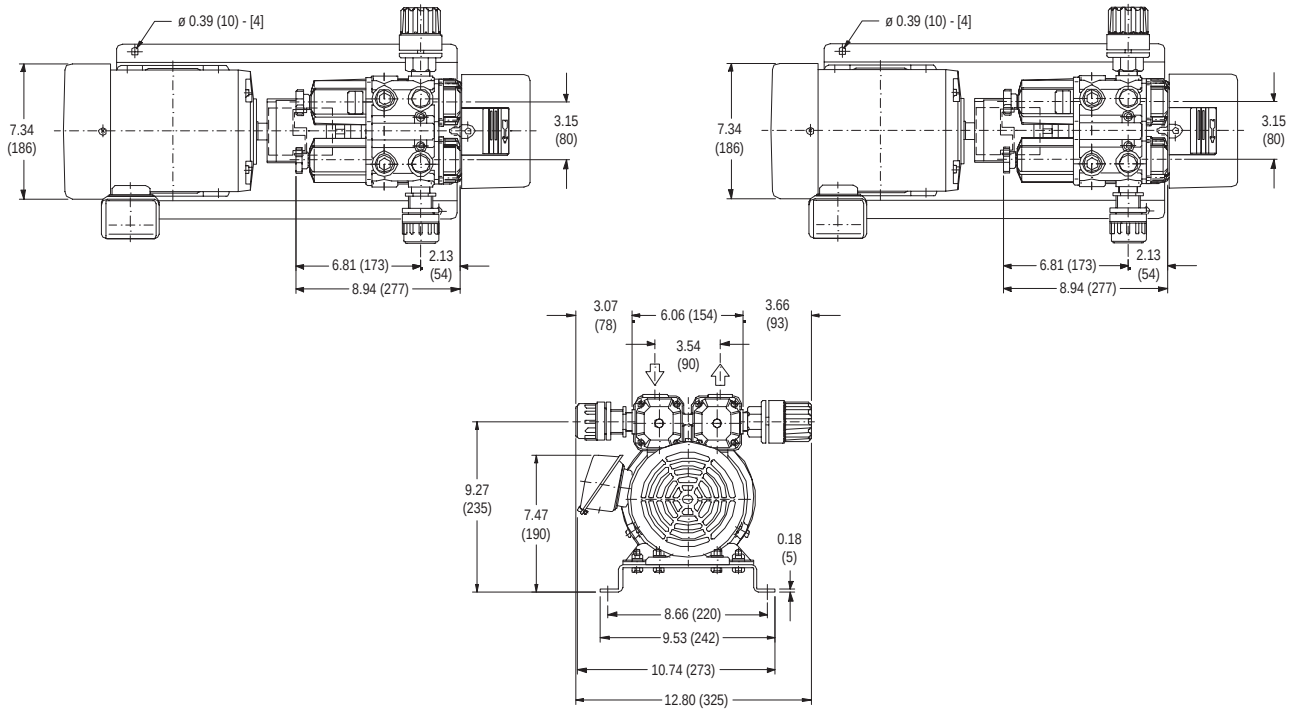
Vacuum Pumps and Vacuum Generators

Dry Rotary Vane Vacuum Pumps / PMP-24



Motor	RPM	Motor HP (Kw)	Vacuum Flow (CFM)	Max. in. Hg	lb (kg)
w/o motor	-	-	24	27.5"	66 (30)
230/460V	1750	1.5	24	27.5"	97 (44)
115/230V	1750	1.5	24	27.5"	97 (44)

Motor	RPM	Motor HP (Kw)	Vacuum Flow (CFM)	Max. PSI	lb (kg)
w/o motor	-	-	24	14psig	66 (30)
230/460V	1750	1.5	24	14psig	97 (44)
115/230V	1750	1.5	24	14psig	97 (44)

NOTES:
a. Standard voltage for three phase pump is 230/460V 3ph 60Hz
b. Standard voltage for single phase pump is 115/230/1ph 50/60Hz
c. All pumps available in 208V/3ph/60Hz and 575 Volt 50/60 Hz. Contact factory for more information.

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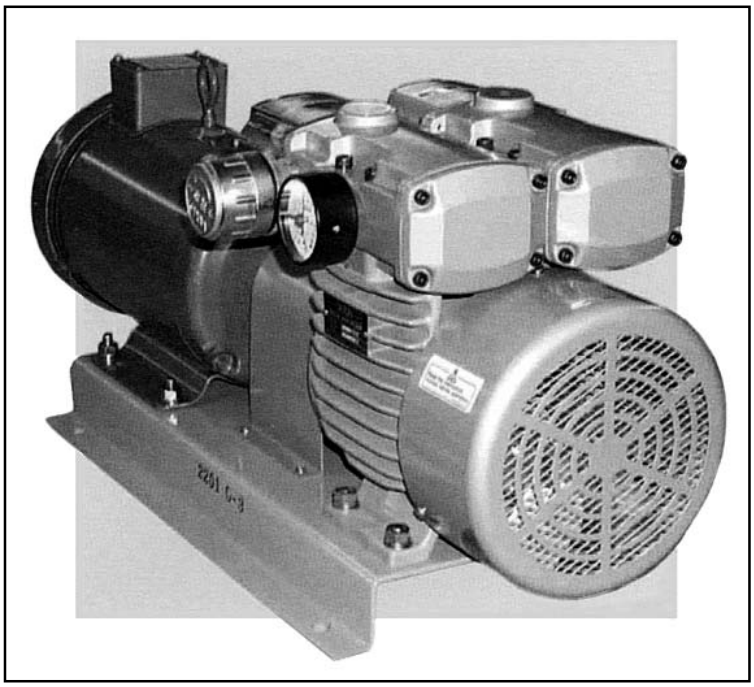
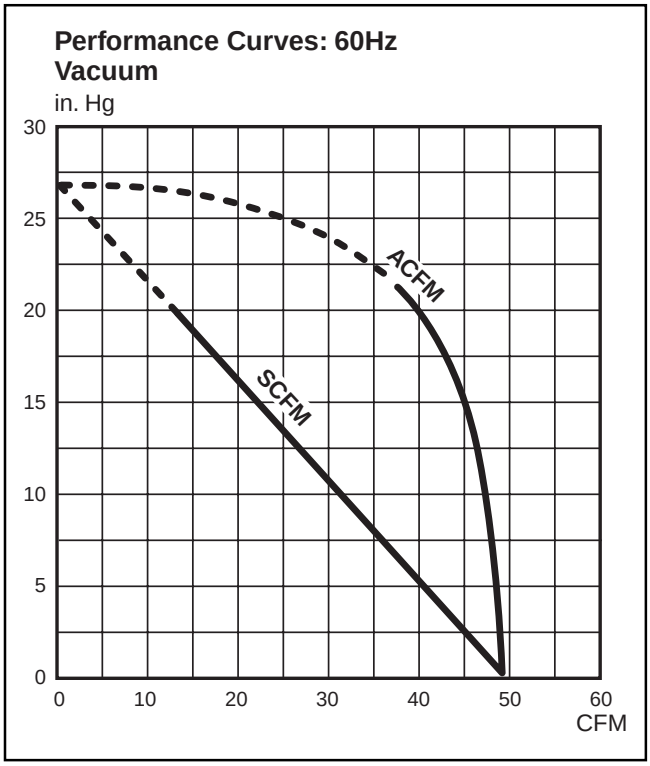
Vacuum Pumps and Vacuum Generators

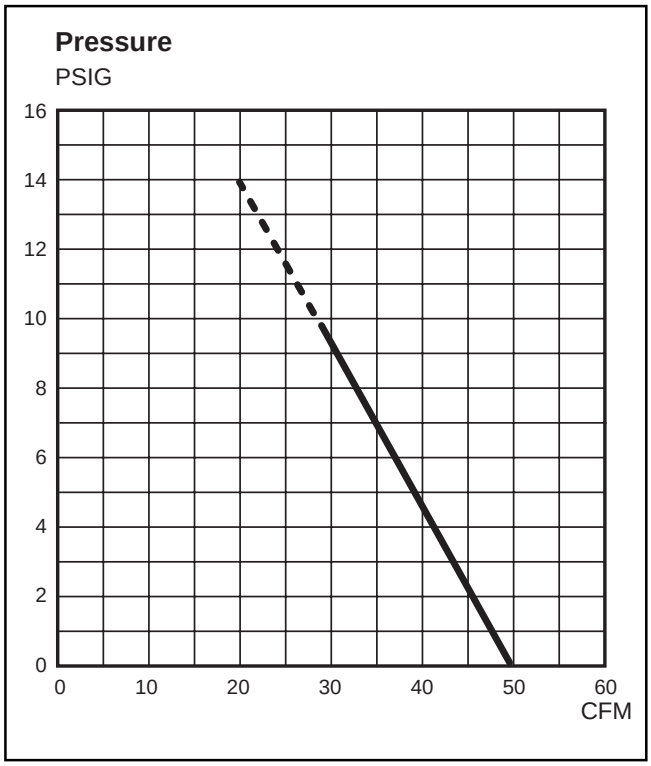
Dry Rotary Vane Vacuum Pumps / PMP-48



Features:

- Oil free
- Maintenance free
- Operates quietly-maximum 70 dB (A)
- Cooler running outboard bearings increase service life
- Built-in particulate filters and silencers
- Compact lightweight design
- Handles vacuum and/or pressure applications
- Ideal alternative to standard oil sealed rotary vane pumps





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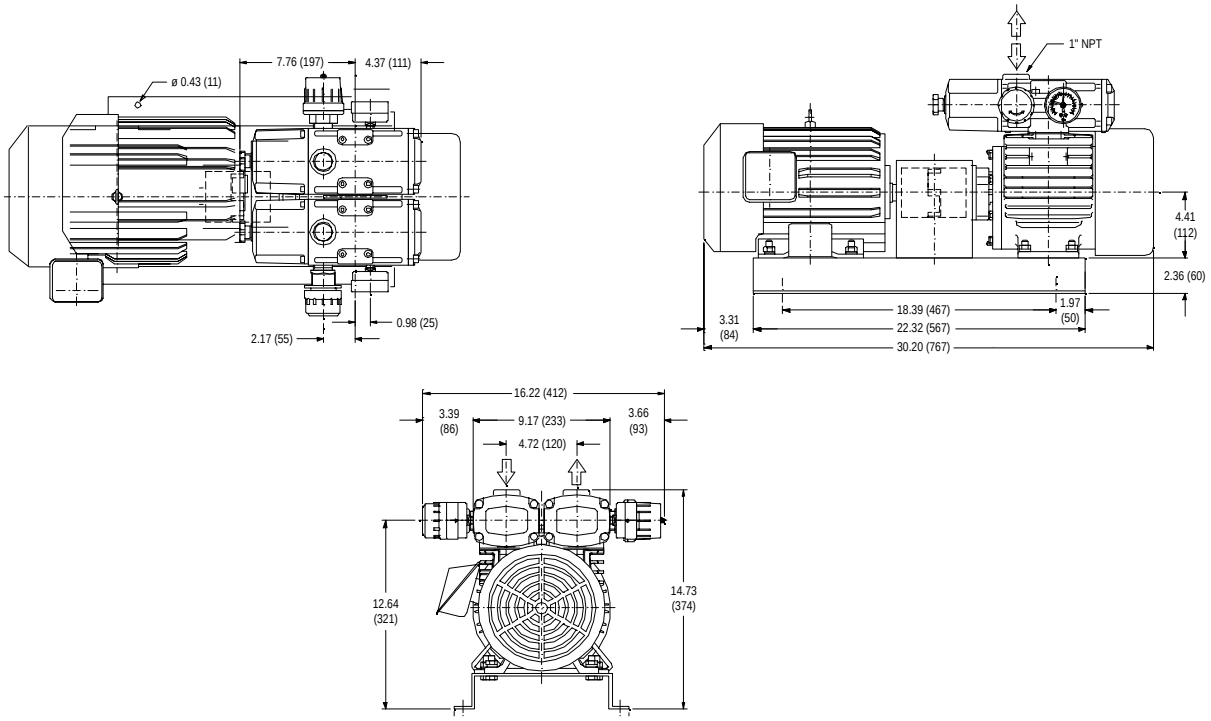
Vacuum Pumps and Vacuum Generators

Dry Rotary Vane Vacuum Pumps / PMP-48



Motor	RPM	Motor HP (Kw)	Vacuum Flow (CFM)	Max. in. Hg	lb (kg)
w/o motor	-	-	50	27.5"	170 (77)
230/460V	1200	3	50	27.5"	220 (100)
115/230V	1200	3	50	27.5"	235 (107)

Motor	RPM	Motor HP (Kw)	Vacuum Flow (CFM)	Max. PSI	lb (kg)
w/o motor	-	-	50	14psig	170 (77)
230/460V	1200	3	50	14psig	220 (100)
115/230V	1200	3	50	14psig	235 (107)

NOTES:
a. Standard voltage for three phase pump is 230/460V 3ph 60Hz
b. Standard voltage for single phase pump is 115/230/1ph 50/60Hz
c. All pumps available in 208V/3ph/60Hz and 575 Volt 50/60 Hz. Contact factory for more information.

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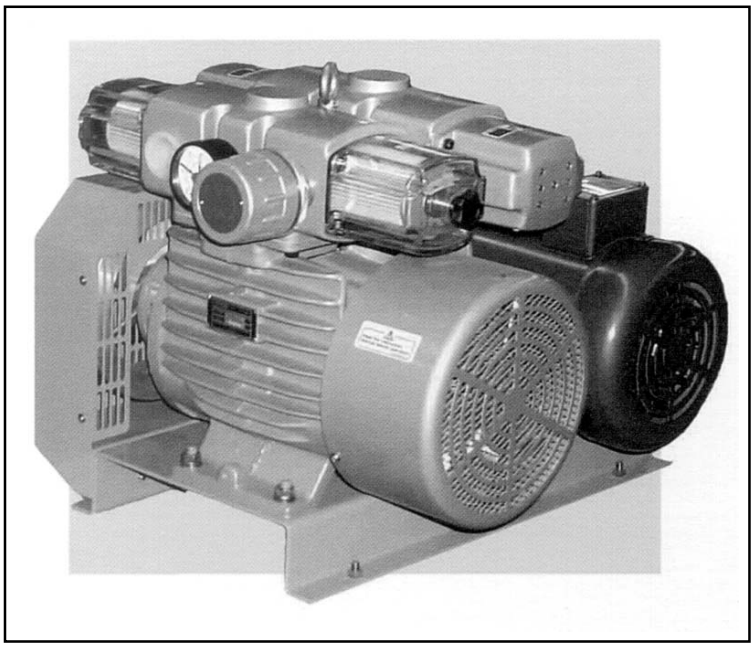
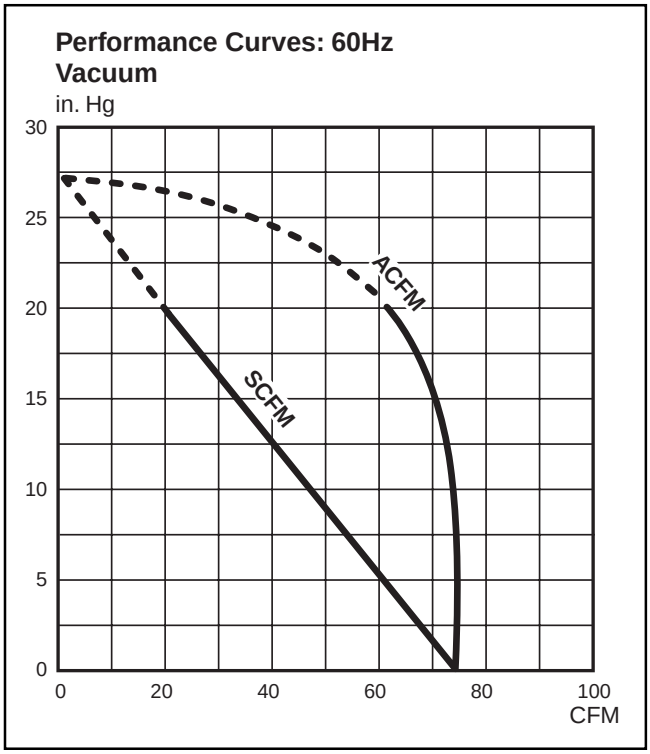
Vacuum Pumps and Vacuum Generators

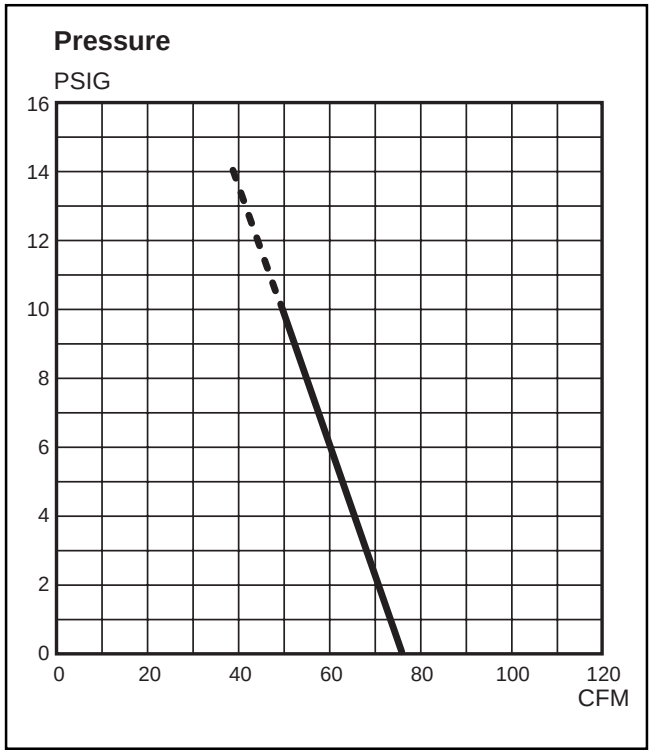
Dry Rotary Vane Vacuum Pumps / PMP-75



Features:

- Oil free
- Maintenance free
- Operates quietly-maximum 70 dB (A)
- Cooler running outboard bearings increase service life
- Built-in particulate filters and silencers
- Compact lightweight design
- Handles vacuum and/or pressure applications
- Ideal alternative to standard oil sealed rotary vane pumps





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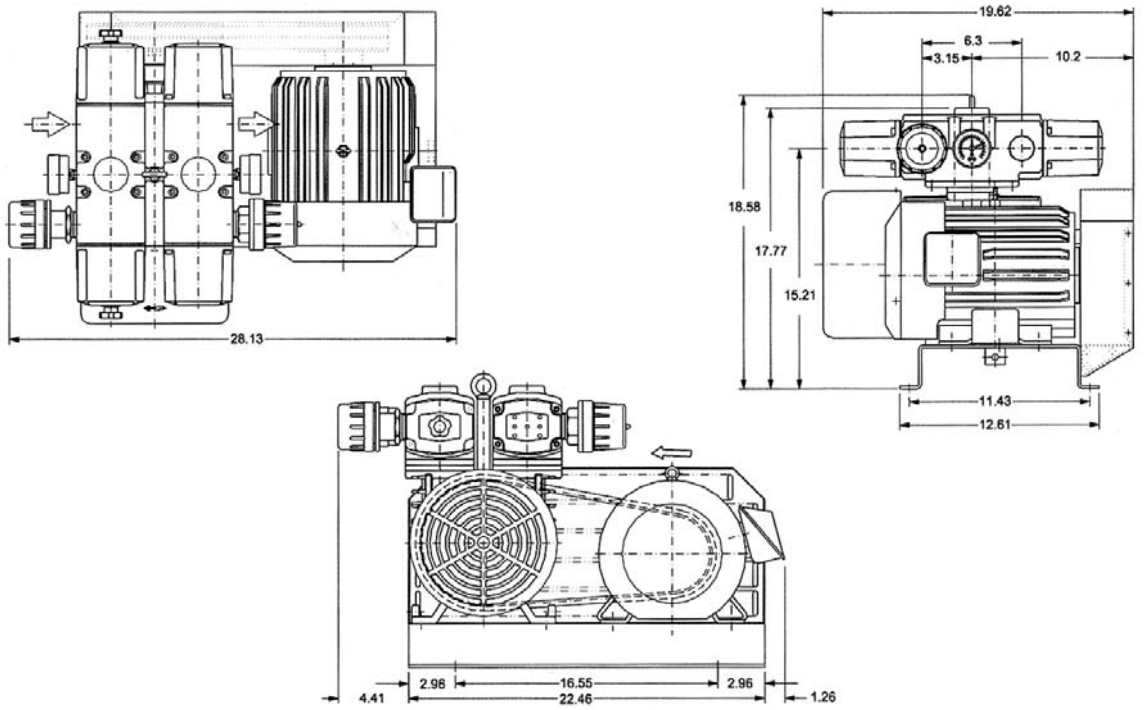
Vacuum Pumps and Vacuum Generators

Dry Rotary Vane Vacuum Pumps / PMP-75



Motor	RPM	Motor HP (Kw)	Vacuum Flow (CFM)	Max. in. Hg	lb (kg)
w/o motor	-	-	75	25"	240 (109)
230/460V	1200	5	75	25"	288 (127)
115/230V	1200	5	75	25"	310 (141)

Motor	RPM	Motor HP (Kw)	Vacuum Flow (CFM)	Max. PSI	lb (kg)
w/o motor	-	-	75	14psig	240 (109)
230/460V	1200	5	75	14psig	288 (127)
115/230V	1200	5	75	14psig	310 (141)

NOTES:
a. Standard voltage for three phase pump is 230/460V 3ph 60Hz
b. Standard voltage for single phase pump is 115/230/1ph 50/60Hz
c. All pumps available in 208V/3ph/60Hz and 575 Volt 50/60 Hz. Contact factory for more information.

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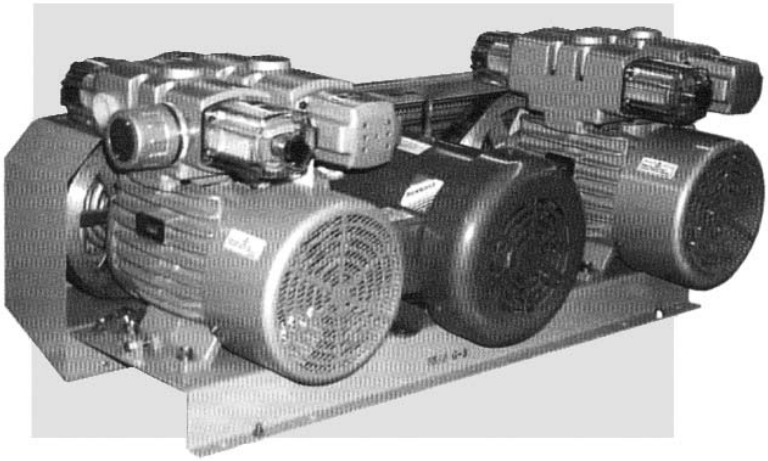
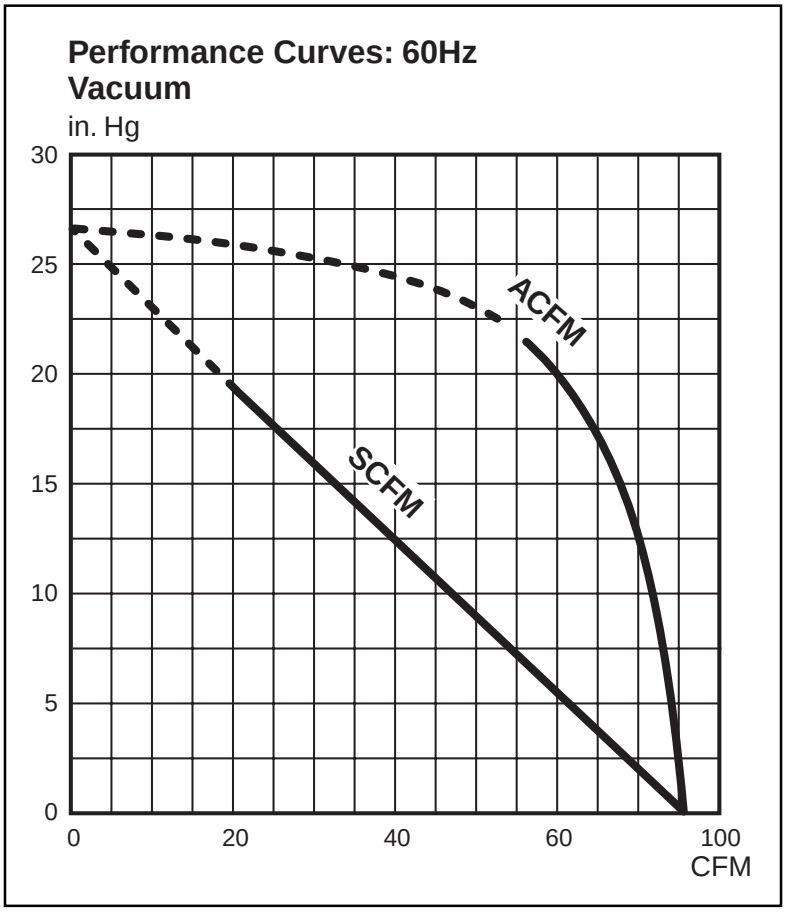
Vacuum Pumps and Vacuum Generators

Dry Rotary Vane Vacuum Pumps / PMP-150



Features:

- Oil free
- Maintenance free
- Operates quietly-maximum 70 dB (A)
- Cooler running outboard bearings increase service life
- Built-in particulate filters and silencers
- Compact lightweight design
- Handles vacuum and/or pressure applications
- Ideal alternative to standard oil sealed rotary vane pumps



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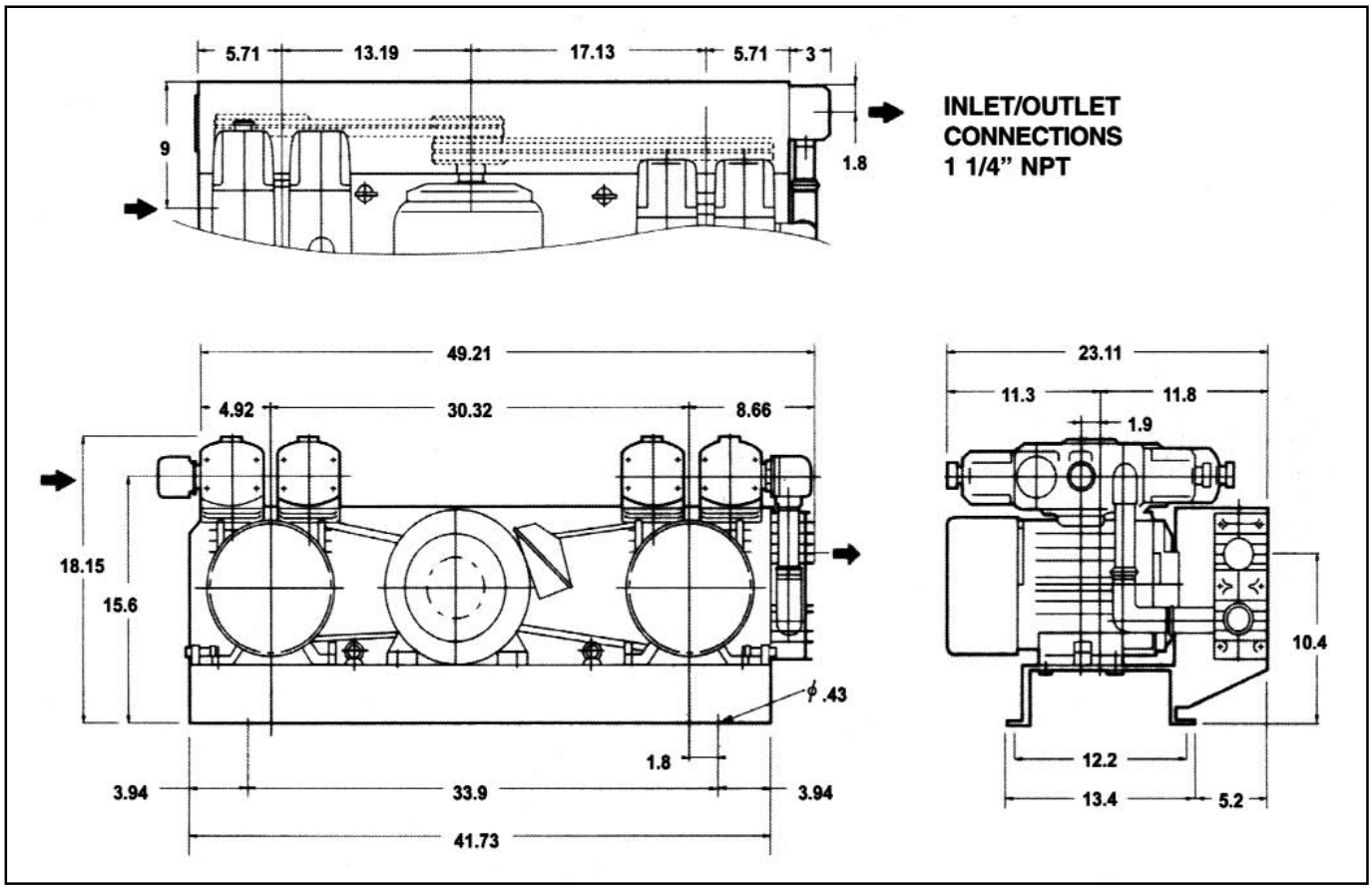
Vacuum Pumps and Vacuum Generators

Dry Rotary Vane Vacuum Pumps / PMP-150



Vacuum Specifications

Motor	RPM	Motor HP (Kw)	Vacuum Flow (CFM)	Max. in. Hg	lb (kg)
w/o motor	-	-	150	27.5"	450 (205)
208-230/460V	1200	10	150	27.5"	522 (237)

NOTES:
a. Standard voltage for three phase pump is 208-230/460V/3ph 60Hz.
b. Standard voltage for single phase pump is 115/230/1ph 50/60Hz or 115V/1ph 60Hz or 230V/1ph 60Hz.
c. All pumps available in 50Hz frequency, and with other voltages. Contact Factory for more information.

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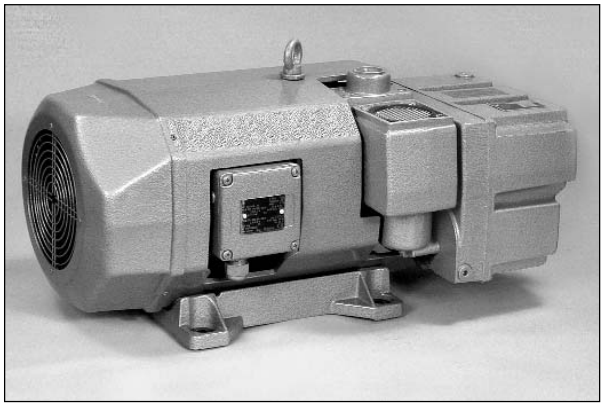
Vacuum Pumps and Generators

Becker Oil Lubricated Rotary Vane Vacuum Pumps



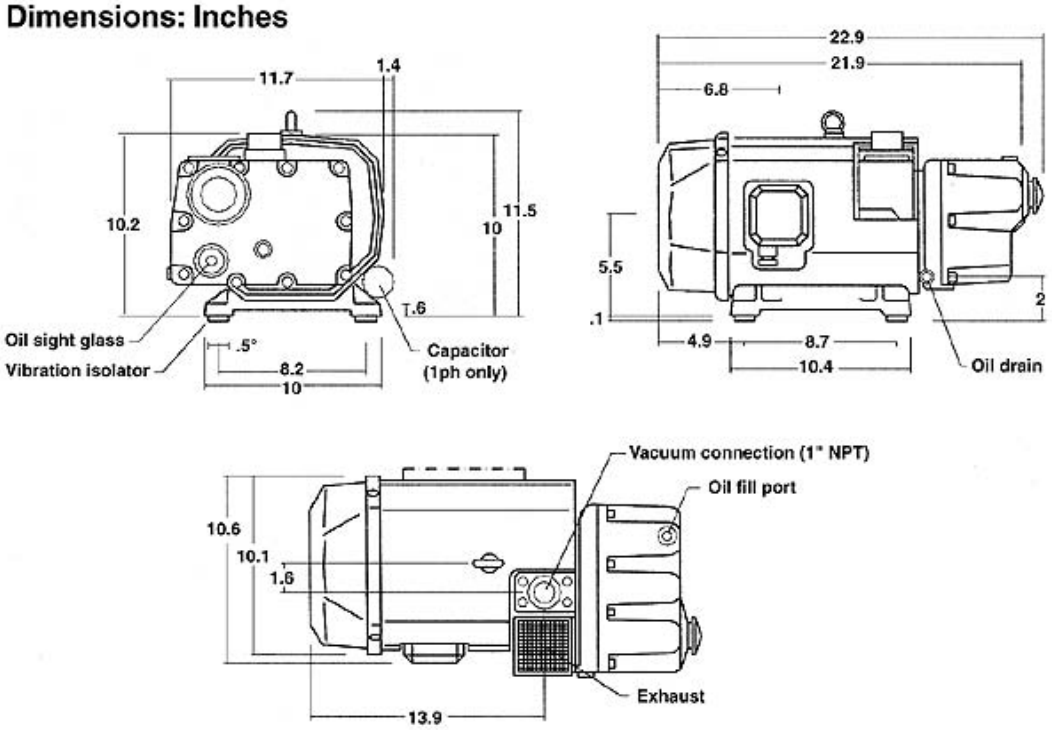
The Becker AFM325 Oil Lubricated Vacuum Pump is a quiet, high quality, rotary vane pump suited for most vacuum applications. Single Stage and Air cooled, this direct driven pump ensures the reliability and durability required in the vacuum industry.

Features:

- Composite Vane Material for long life
- Oil level sight glass
- Vibration isolators
- Anti-suck back valve
- Integral exhaust filters
- Can be wired to 230V or 460V

Model Number	Voltage	HP	Flow SCFM (l/min.)	Sound Level dB	Max. Vacuum in. Hg (mm Hg)	Speed RPM	Oil Qty. Quarts	Shipping Weight lb (kg)
AFM325-230	230	1.5	18 (510)	66.5	29.8 (757)	1725	1	92 (42)
AFM325-460	460	1.5	18 (510)	66.5	29.8 (757)	1725	1	92 (42)

Dimensions: Inches



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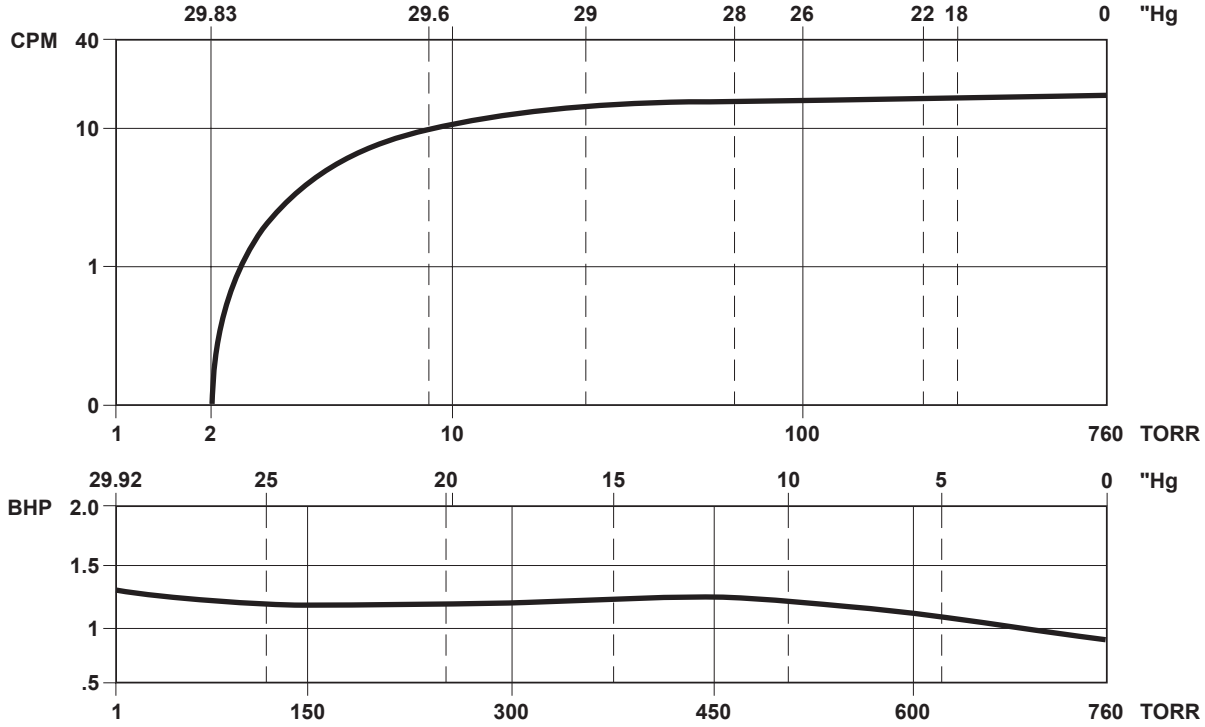

Specifications

Free Air Displacement [CFM] 60 Hz	18
Motor Capacity	1.5
Speed [RPM] 60 Hz	1725
Sound Level [dB(A)] 60 Hz	66.5
End Vacuum [Torr] - SA	2.0
Weight [Lb] [with motor]	92
Oil Quantity [Qt]	1

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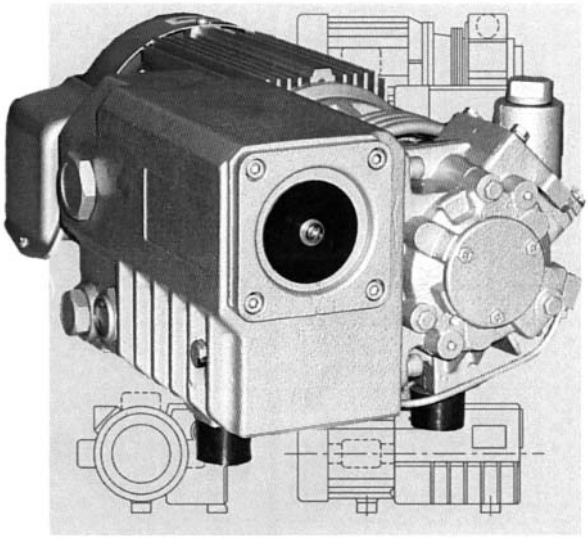
Vacuum Pumps and Generators

Small Oil Lubricated Rotary Vane Vacuum Pumps

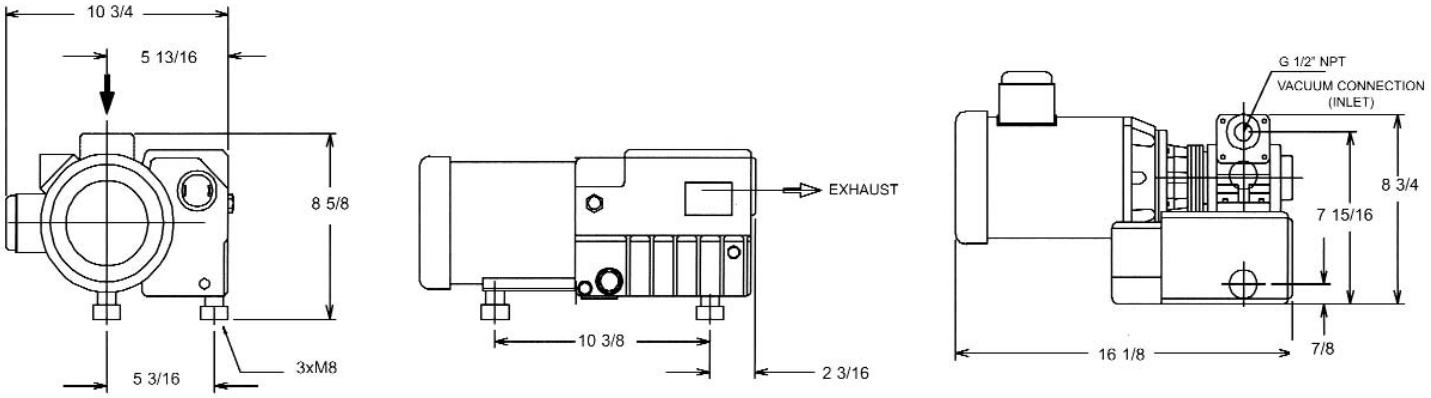


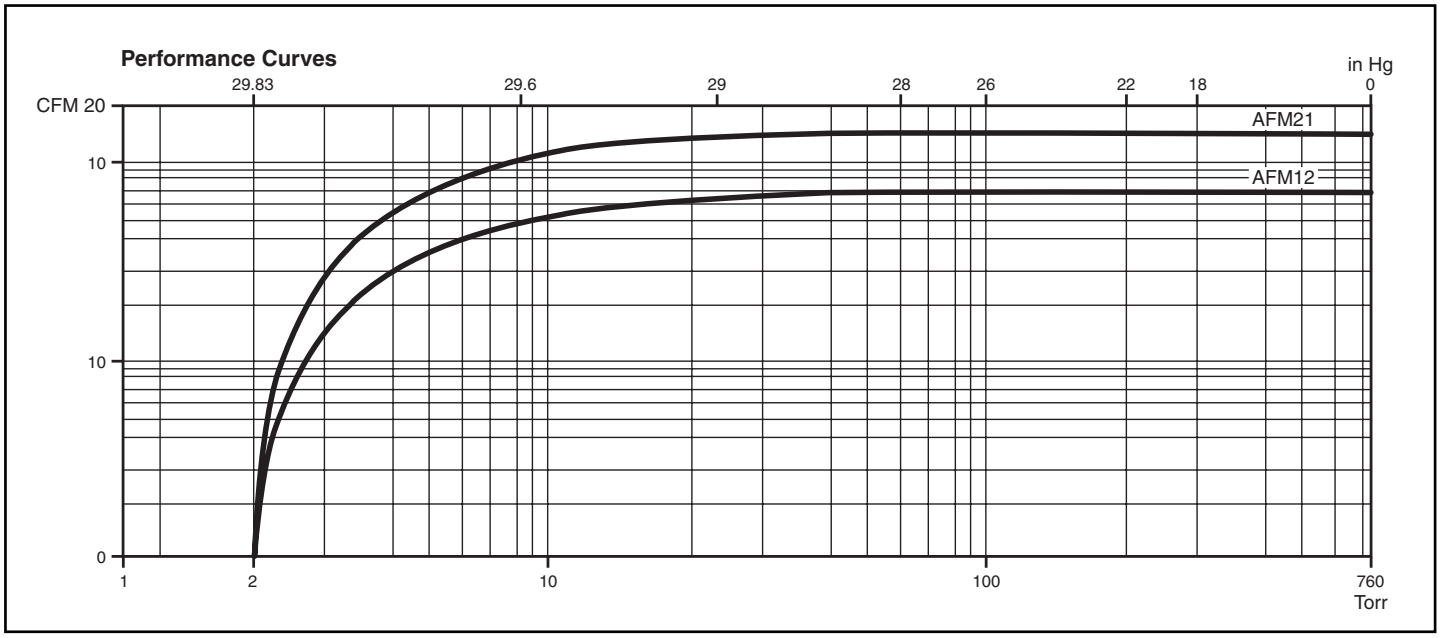
ANVER's oil-flooded, multi-vane vacuum pumps are single stage, air-cooled and direct driven. This simple design ensures the reliability and durability that is required in the vacuum industry.

Features:

- Composite vane material for long life
- Non metal or asbestos
- Oil level site glass
- Vibration isolators
- Anti-suck back valve
- Integral exhaust filters
- TEFC high efficiency tri-voltage motors (208-230/460V 50.60)
- Wire mesh inlet screen
- Excellent performance for the price

AFM12 and AFM21 Series *(Shown Above)*





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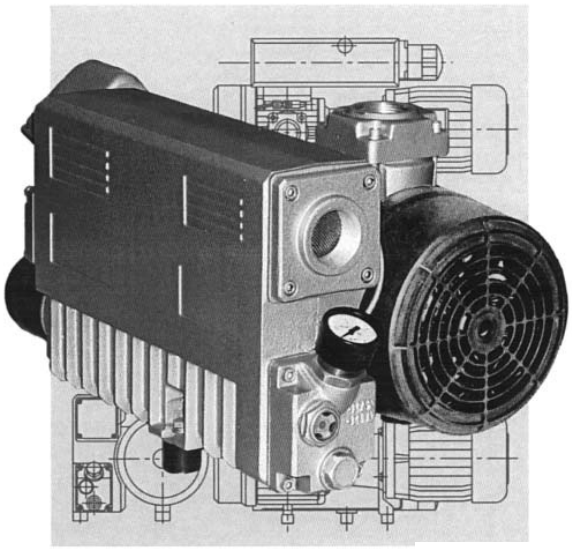
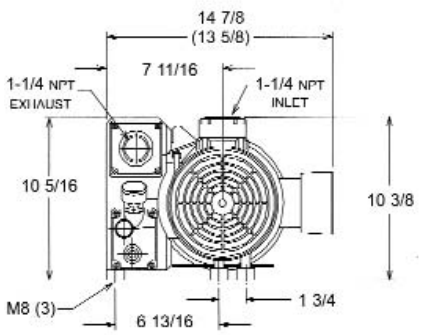
Vacuum Pumps and Generators

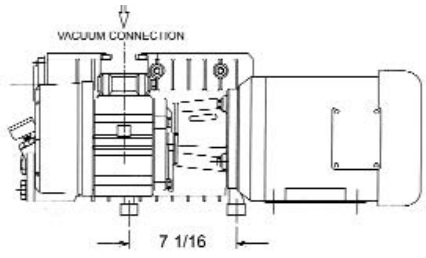
Oil Lubricated Rotary Vane Vacuum Pumps

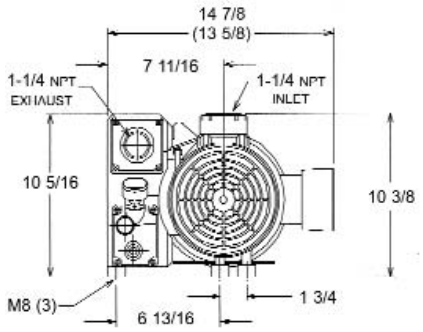
Model Number	Voltage	Free Air Displacement 60 Hz SCFM (l/m)	Motor Capacity (HP) 60 Hz	Sound Level dB	End. Vacuum Standard	Speed RPM	Oil Qty. Quarts	Shipping Weight lb (kg)
AFM12-230	230	7 (198)	0.75	59	2.0 Torr 29.84” Hg	1750	.05	42 (19)
AFM12-460	460	7 (198)	0.75	59	2.0 Torr 29.84” Hg	1750	.05	42 (19)
AFM21-230	230	15 (425)	1.00	62	2.0 Torr 29.84” Hg	3600	.05	42 (19)
AFM21-460	460	15 (425)	1.00	62	2.0 Torr 29.84” Hg	3600	.05	42 (19)

AFM25 and AFM40 Series *(Shown Below)*









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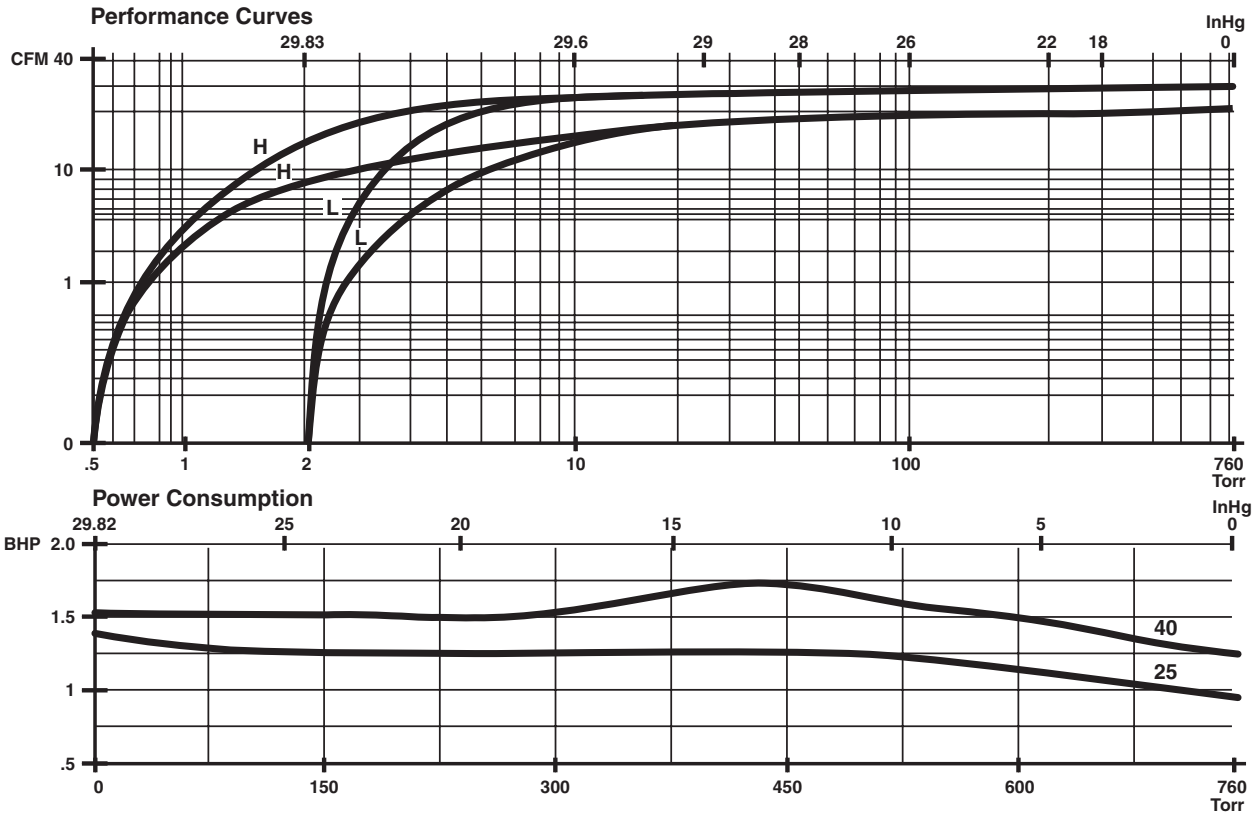
Vacuum Pumps and Generators

Oil Lubricated Rotary Vane Vacuum Pumps



Model Number	Voltage	Free Air Displacement 60 Hz SCFM (l/m)	Motor Capacity (HP) 60 Hz	Sound Level dB	End. Vacuum Standard	Speed RPM	Oil Qty. Quarts	Shipping Weight lb (kg)
AFM25-230L	230	21 (595)	1.5	67	2.0 Torr 29.84" Hg	1725	1.0	103 (46.8)
AFM25-230H	230	21 (595)	1.5	67	2.0 Torr 29.90" Hg	1725	1.0	103 (46.8)
AFM25-460L	460	21 (595)	1.5	67	2.0 Torr 29.84" Hg	1725	1.0	103 (46.8)
AFM25-460H	460	21 (595)	1.5	67	2.0 Torr 29.90" Hg	1725	1.0	103 (46.8)
AFM40-230L	230	31 (878)	2.0	67	2.0 Torr 29.84" Hg	1725	1.0	116 (52.7)
AFM40-230H	230	31 (878)	2.0	67	2.0 Torr 29.90" Hg	1725	1.0	116 (52.7)
AFM40-460L	460	31 (878)	2.0	67	2.0 Torr 29.84" Hg	1725	1.0	116 (52.7)
AFM40-460H	460	31 (878)	2.0	67	2.0 Torr 29.90" Hg	1725	1.0	116 (52.7)

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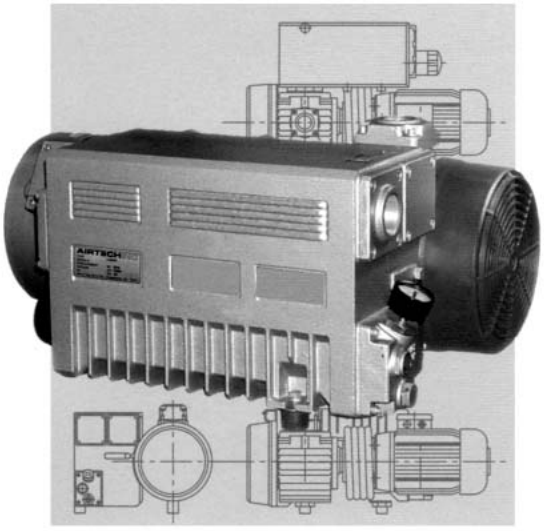
Vacuum Pumps and Generators

Medium Oil Lubricated Rotary Vane Vacuum Pumps

AFM63 and AFM100 Series



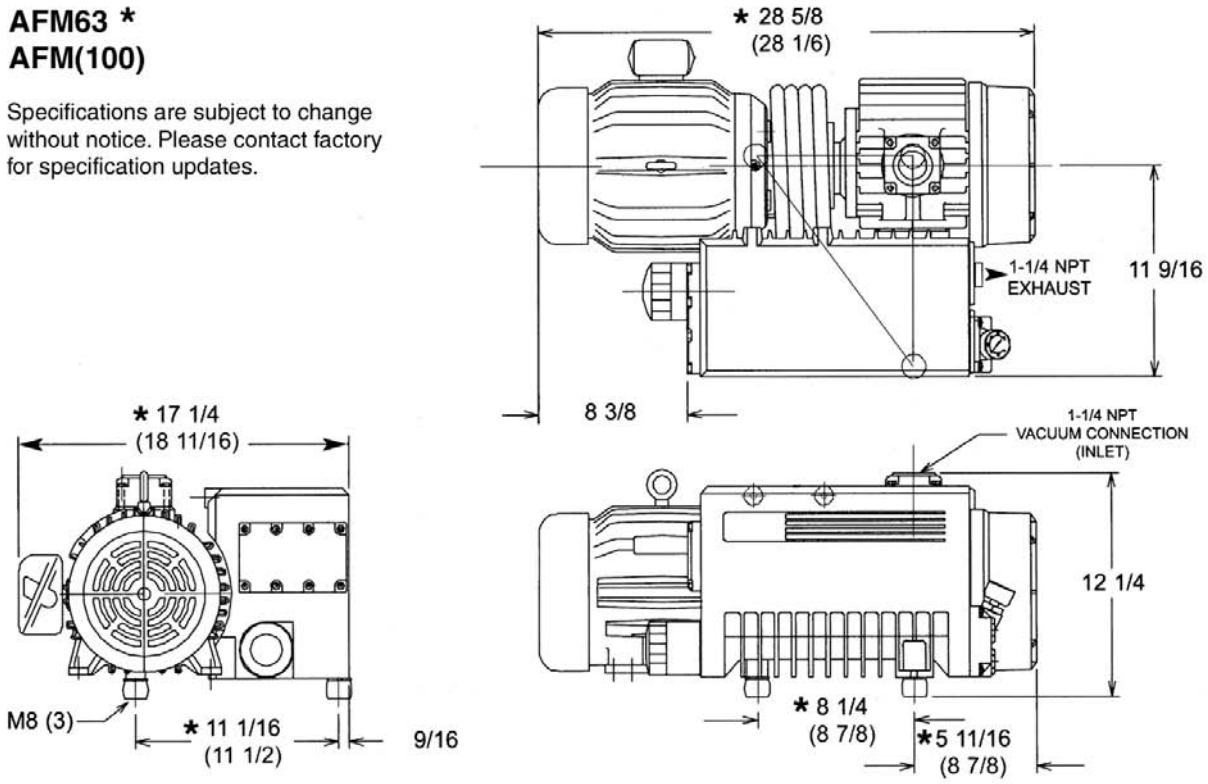
ANVER's oil-flooded, multi-vane vacuum pumps are single stage, air-cooled and direct driven. This simple design ensures the reliability and durability that is required in the vacuum industry.

Features:

- Composite vane material for long life
- Non metal or asbestos
- Oil level site glass
- Vibration isolators
- Anti-suck back valve
- Integral exhaust filters
- TEFC high efficiency tri-voltage motors (208-230/460V 50.60)
- Wire mesh inlet screen
- Excellent performance for the price

AFM63 *
AFM(100)

Specifications are subject to change without notice. Please contact factory for specification updates.



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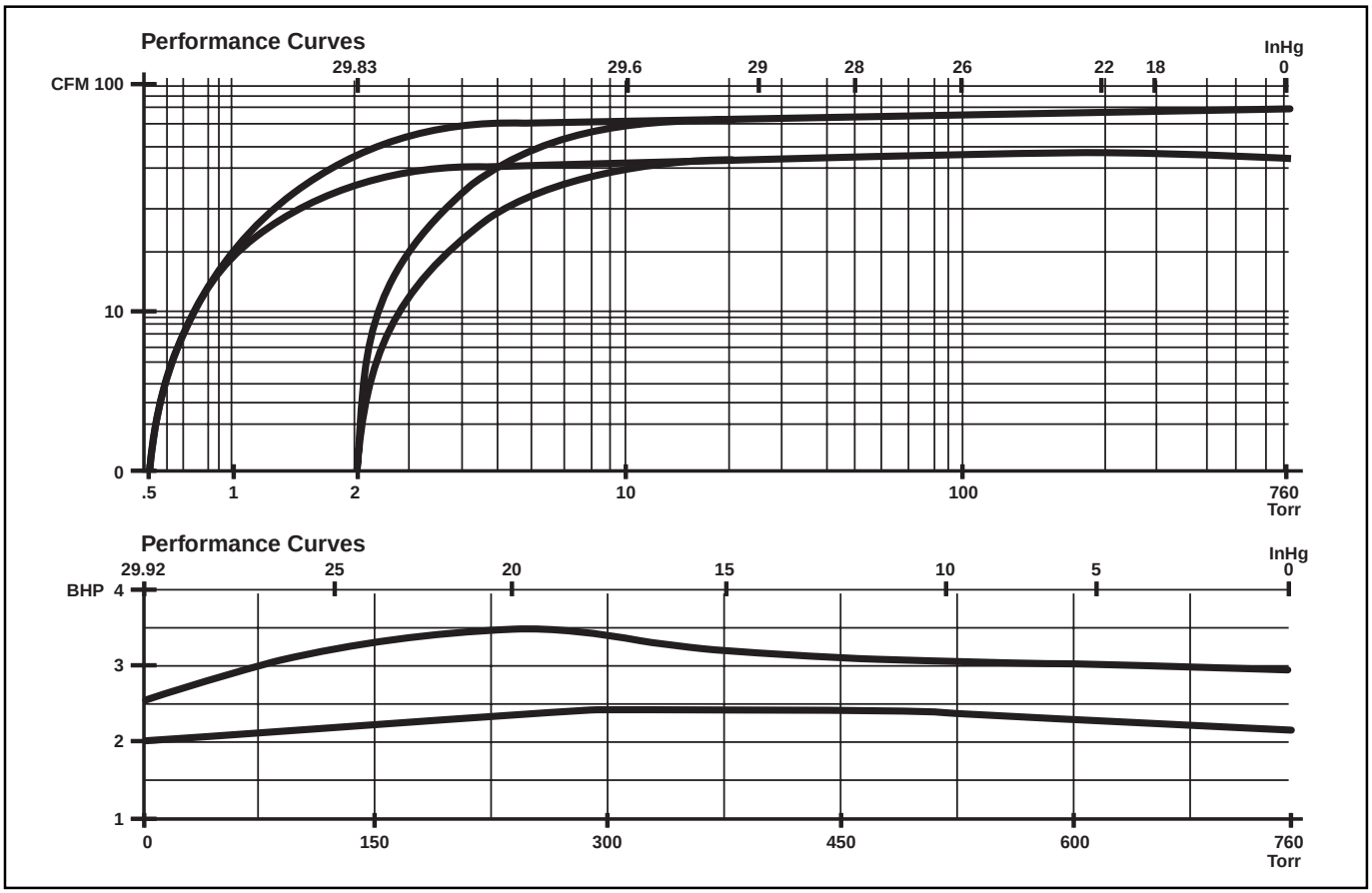
Vacuum Pumps and Generators

Medium Oil Lubricated Rotary Vane Vacuum Pumps



Model Number	Voltage	Free Air Displacement 60 Hz SCFM (l/m)	Motor Capacity (HP) 60 Hz	Sound Level dB	End. Vacuum Standard	Speed RPM	Oil Qty. Quarts	Shipping Weight lb (kg)
AFM63-230L	230	45 (1275)	3.0	70	2.0 Torr 29.84" Hg	1725	2.0	168 (74.6)
AFM63-230H	230	45 (1275)	3.0	70	0.5 Torr 29.90" Hg	1725	2.0	168 (74.6)
AFM63-460L	460	45 (1275)	3.0	70	2.0 Torr 29.84" Hg	1725	2.0	168 (74.6)
AFM63-460H	460	45 (1275)	3.0	70	0.5 Torr 29.90" Hg	1725	2.0	168 (74.6)
AFM100-230L	230	70 (1982)	5.0	70	2.0 Torr 29.84" Hg	1725	2.0	185 (82.2)
AFM100-230H	230	70 (1982)	5.0	70	0.5 Torr 29.90" Hg	1725	2.0	185 (82.2)
AFM100-460L	460	70 (1982)	5.0	70	2.0 Torr 29.84" Hg	1725	2.0	185 (82.2)
AFM100-460H	460	70 (1982)	5.0	70	0.5 Torr 29.90" Hg	1725	2.0	185 (82.2)

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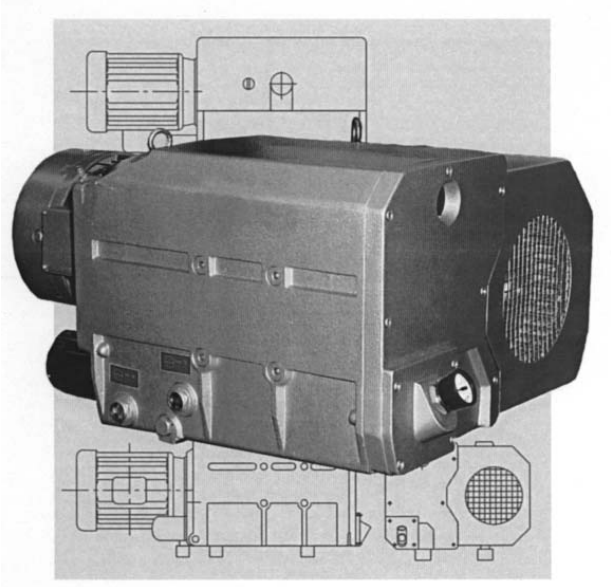
Vacuum Pumps and Generators

Medium Oil Lubricated Rotary Vane Vacuum Pumps

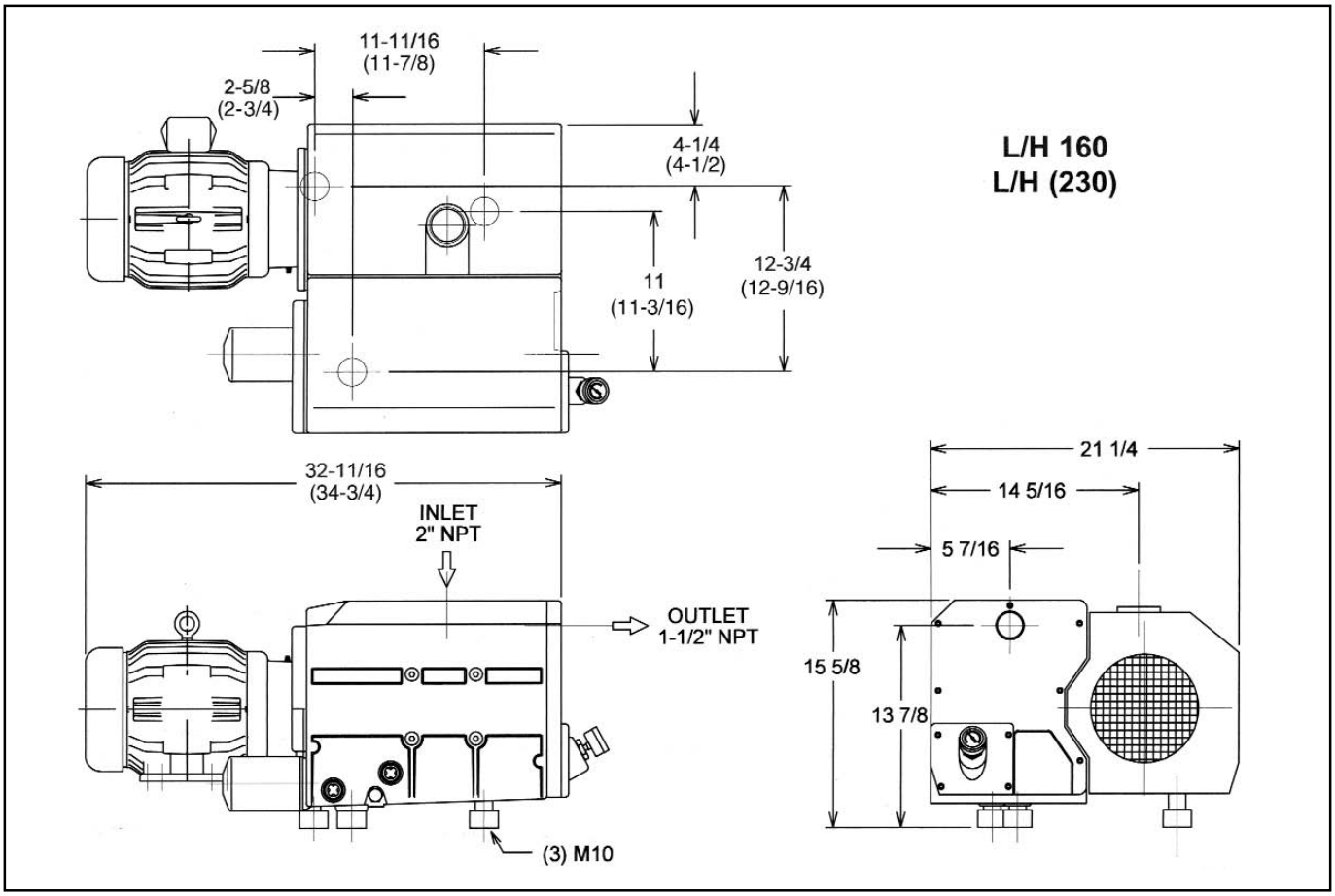
AFM160 and AFM230 Series



ANVER's oil-flooded, multi-vane vacuum pumps are single stage, air-cooled and direct driven. This simple design ensures the reliability and durability that is required in the vacuum industry.

Features:

- Composite vane material for long life
- Non metal or asbestos
- Oil level site glass
- Vibration isolators
- Anti-suck back valve
- Integral exhaust filters
- TEFC high efficiency tri-voltage motors (208-230/460V 50.60)
- Wire mesh inlet screen
- Excellent performance for the price



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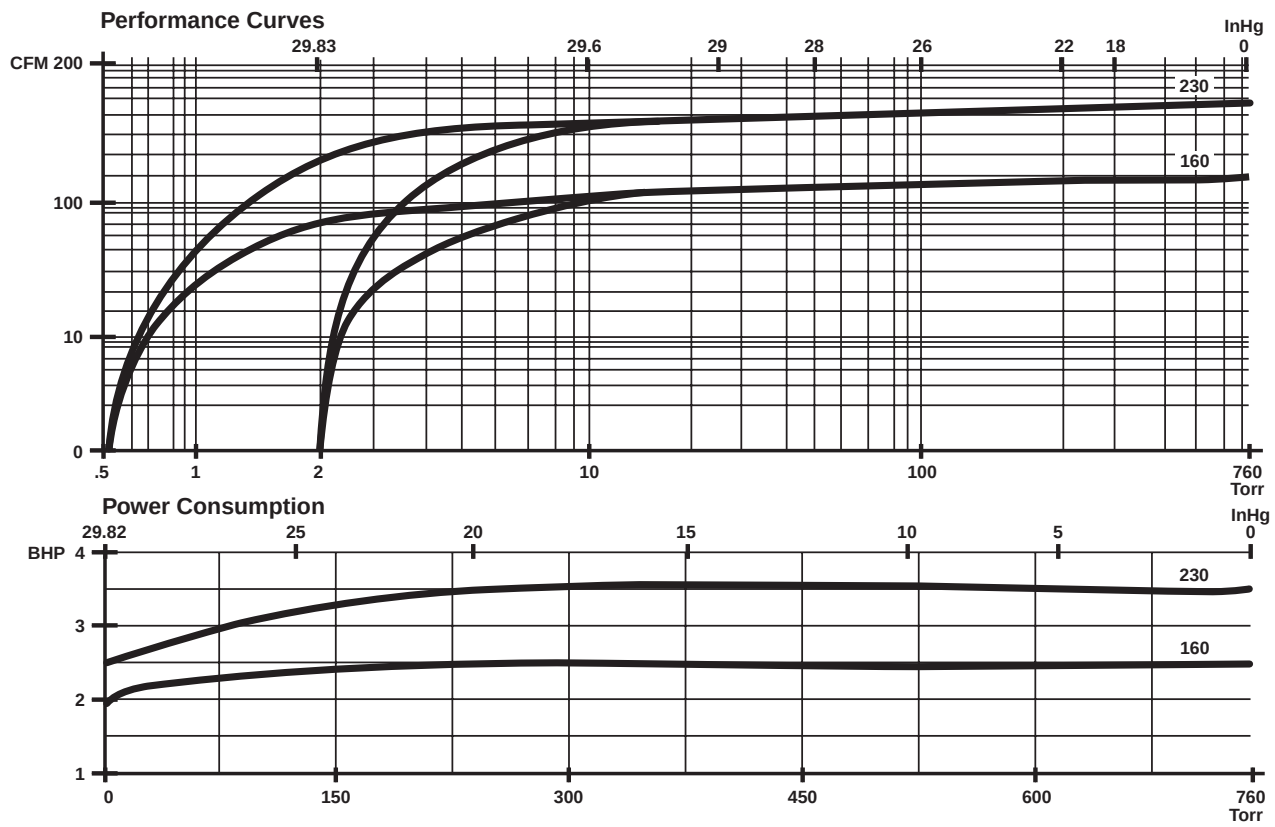
Vacuum Pumps and Generators

Medium Oil Lubricated Rotary Vane Vacuum Pumps



Model Number	Voltage	Free Air Displacement 60 Hz SCFM (l/m)	Motor Capacity (HP) 60 Hz	Sound Level dB	End. Vacuum Standard	Speed RPM	Oil Qty. Quarts	Shipping Weight lb (kg)
AFM160-230L	230	112 (3172)	5.0	73	2.0 Torr 29.84" Hg	1725	7.0	306 (139)
AFM160-230H	230	112 (3172)	5.0	73	0.5 Torr 29.90" Hg	1725	7.0	306 (139)
AFM160-460L	460	112 (3172)	5.0	73	2.0 Torr 29.84" Hg	1725	7.0	306 (139)
AFM160-460H	460	112 (3172)	5.0	73	0.5 Torr 29.90" Hg	1725	7.0	306 (139)
AFM230-230L	230	155 (4390)	7.5	74	2.0 Torr 29.84" Hg	1725	7.0	377 (171)
AFM230-230H	230	155 (4390)	7.5	74	0.5 Torr 29.90" Hg	1725	7.0	377 (171)
AFM230-460L	460	155 (4390)	7.5	74	2.0 Torr 29.84" Hg	1725	7.0	377 (171)
AFM230-460H	460	155 (4390)	7.5	74	0.5 Torr 29.90" Hg	1725	7.0	377 (171)

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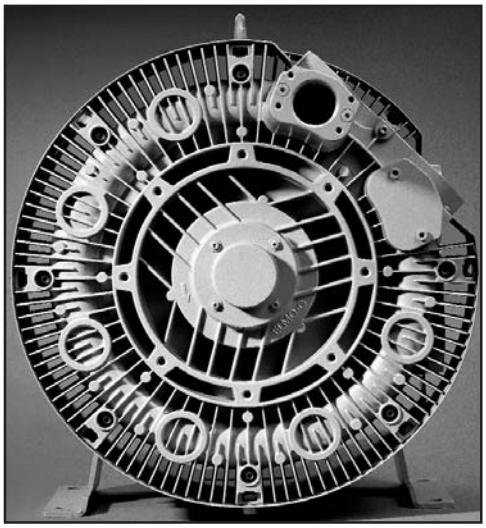
Vacuum Pumps and Generators

Vacuum Pumps with Standard and Explosion Proof Motors



ANVER, in close cooperation with Siemens, offers select models of high efficiency vacuum pumps specially designed for ANVER, and used as part of its vacuum lifting systems. These revolutionary regenerative pumps offer a compact, reliable source of quiet, vibration-free vacuum. ANVER's quality vacuum pumps are made from tough, high-strength materials for long life, and are lightweight and virtually maintenance free. Their highly efficient, state-of-the-art design has rendered the older designs of conventional side-channel blowers obsolete. Vacuum pumps are available in capacities of up to 480+ cfm flow and 18 in. Hg vacuum. Powered by high quality TEFC Siemens motors, they are more energy efficient, require less horsepower to operate than competitive models, and are offered in a variety of sizes to match your vacuum lifting requirements.

ANVER's high efficiency vacuum pumps are also known as Regenerative Blowers, Ring Compressors, Vortex Blowers, and Side-Channel Blowers by other manufacturers. The difference with these pumps is the precision and quality of parts used, allowing vacuum level and flow to be achieved with lower noise levels. Most of these pumps can be used to create either vacuum or pressure flow. The pumps ANVER offers are the highest quality on the market, with surprisingly low prices in relation to their performance. These pumps are available as both complete vacuum stations (which feature heavy duty mufflers and all appropriate connection fittings), and as replacement units.

NOTE: Optional vacuum or pressure relief valves are also recommended.

Standard Regenerative Direct-Drive Vacuum Pumps and Vacuum Station Specifications

Note: Vacuum Stations include a large muffler and fittings

Complete Station Part Number	HP (KW)	SCFM (l/min.)	Max. Vacuum in. Hg (mm Hg)	Pump Part Number	Sound Enclosure	Shipping Wt. lb (kg)
VB3HF-S	3.4 (2.53)	142 (4021)	8 (203)	VB3HF	SDE-3	53 (23.5)
VB4HF-S	5.0 (3.73)	220 (6230)	12 (305)	VB4HF	SDE-4	75 (33.3)
VB7HV-S	5.0 (3.73)	98 (2775)	18 (457)	VB7HV	SDE-7	94 (41.70)
VB8HF-S	8.5 (6.34)	320 (9061)	12 (305)	VB8HF	SDE-8	277 (122.89)
VB9HV-S	7.5 (5.59)	124 (3511)	18 (457)	VB9HV	SDE-9	112 (49.69)

Explosion Proof Regenerative Vacuum Stations

Note: Vacuum Stations include a large muffler and connection fittings

Station Part Number	HP (KW)	Class1/ Division1/ Group D	Class 1/ Division 1/ Group C&D	Class 1/ Division 1/ Group F&G
VB4HF-S	4.8	VB4HF-S-X11D	VB4HF-S-X11CD	VB4HF-S-X21FG
VB7HV-S	5.0	VB7HV-S-X11D	VB7HV-S-X11CD	VB7HV-S-X21FG
VB8HF-S	8.5	VB8HF-S-X11D	VB8HF-S-X11CD	VB8HF-S-X21FG
VB9HV-S	7.5	VB9HV-S-X11D	VB9HV-S-X11CD	VB9HV-S-X21FG

Explosion Proof Regenerative Vacuum Pumps Only

Pump Part Number	HP (KW)	Class1/ Division1/ Group D	Class 1/ Division 1/ Group C&D	Class 1/ Division 1/ Group F&G
VB4HF	4.8	VB4HF-X11D	VB4HF-X11CD	VB4HF-X21FG
VB7HV	5.0	VB7HV-X11D	VB7HV-X11CD	VB7HV-X21FG
VB8HF	8.5	VB8HF-X11D	VB8HF-X11CD	VB8HF-X21FG
VB9HV	7.5	VB9HV-X11D	VB9HV-X11CD	VB9HV-X21FG

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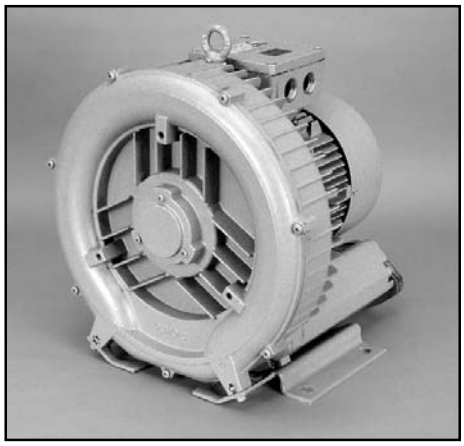
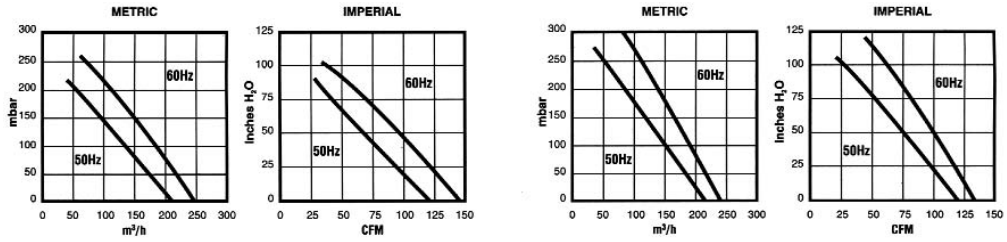
Vacuum Pumps and Generators

VB Series Explosion-Proof Regenerative Pump VB3HF

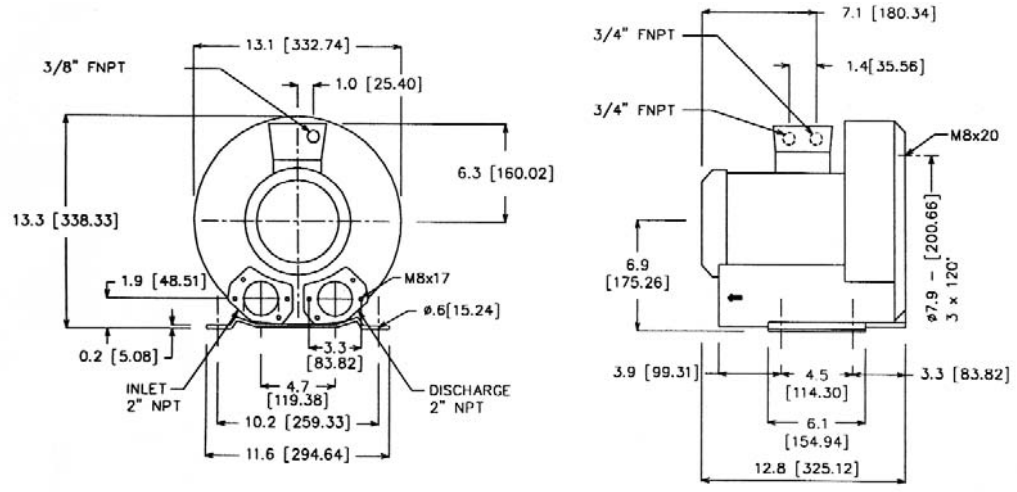


Features:

- Cooler running, outboard bearing provides virtually maintenance-free operation in continuous duty service.
- Environmentally friendly oil-free design prevents downstream contamination of gas or components.
- Quiet operation; as low as 73 dB(A)
- Easily mounts in any axle orientation.
- Shock absorbing mounting plate design reduces transmission of vibration between process machinery and the blower.
- Thermal overload protection standard on all models.
- Equipped with high quality TEFC motors manufactured by Siemens, sized to match your operating requirements providing for superior power efficiency.
- IP54 with Class F insulation.
- Quality assured; manufactured in accordance with ISO 9001.
- UL Recognized, CE Compliant. DNE VDE 0530



VACUUM PRESSURE



Hz	Voltage Range	Rated Amps	Rated HP	RPM	Maximum Vacuum in H_20 mbar	Maximum Pressure in H_20 mbar	Maximum Flow CFM m^3h	Net Weight lb kg
60	208-230/415-460	10.0/5.0	3.42	3600	105 (260)	120 (300)	145 (250)	53 (24)
50	220/380/415	10.8/4.8/5.0	2.95	3000	90 (220)	110 (270)	125 (210)	53 (24)

NOTES:

A) Performance tolerance is ±10%.

B) Performance curves are based on an air temperature of 60° F (15° C) at the inlet connection and 29.92 Hg abs (1013 mbar) at the discharge connection.

Specification and performance data are subject to change without notice. Please contact factory for specification updates.

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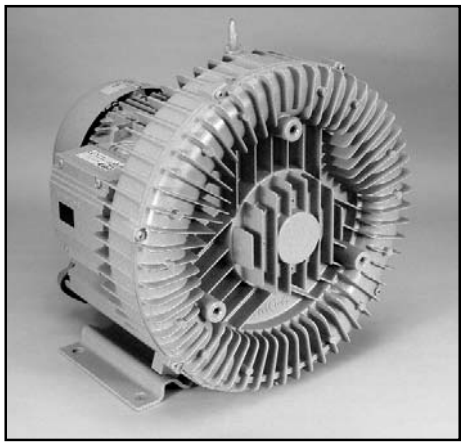
Vacuum Pumps and Generators

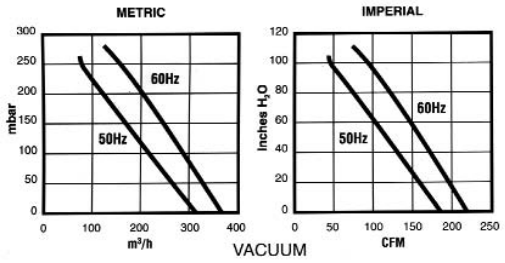
VB Series Explosion-Proof Regenerative Pump VB4HF

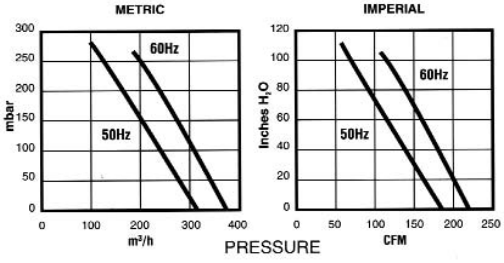
ANVER® CORPORATION

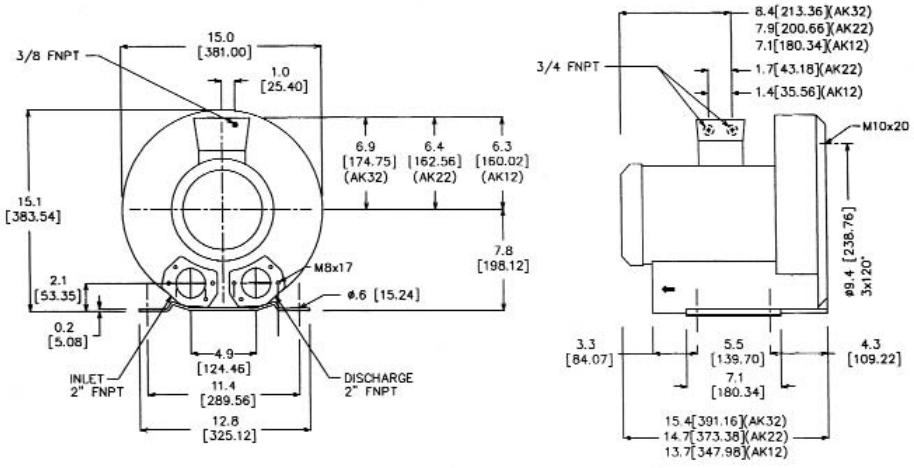


Features:

- Cooler running, outboard bearing provides virtually maintenance-free operation in continuous duty service.
- Environmentally friendly oil-free design prevents downstream contamination of gas or components.
- Quiet operation; as low as 80 dB(A)
- Easily mounts in any axle orientation.
- Shock absorbing mounting plate design reduces transmission of vibration between process machinery and the blower.
- Thermal overload protection standard on all models.
- Equipped with high quality TEFC motors manufactured by Siemens, sized to match your operating requirements providing for superior power efficiency.
- IP54 with Class F insulation.
- Quality assured; manufactured in accordance with ISO 9001.
- UL Recognized, CE Compliant. DNE VDE 0530







Hz	Voltage Range	Rated Amps	Rated HP	RPM	Maximum Vacuum in H_20 mbar	Maximum Pressure in H_20 mbar	Maximum Flow CFM m^3h	Net Weight lb kg
60	208-230/415-460	13.6/6.8	4.6	3600	112 (280)	107 (266)	220 (375)	75 (34)
50	220/380/415	15.0/6.8/6.6	4.0	3000	104 (260)	112 (280)	187 (320)	75 (34)

NOTES:

A) Performance tolerance is ±10%.

B) Performance curves are based on an air temperature of 60° F (15° C) at the inlet connection and 29.92 Hg abs (1013 mbar) at the discharge connection.

Specification and performance data are subject to change without notice. Please contact factory for specification updates.

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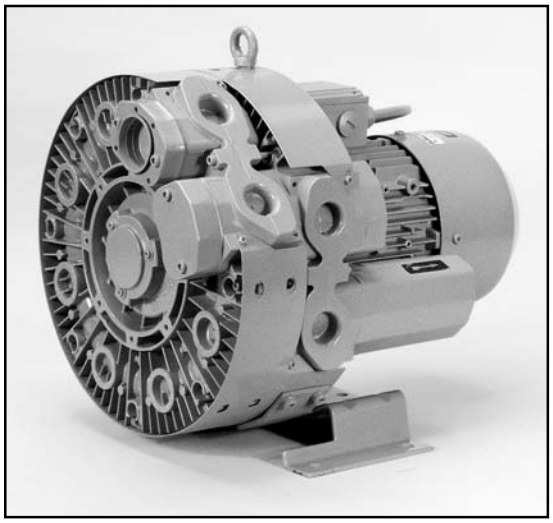
Vacuum Pumps and Generators

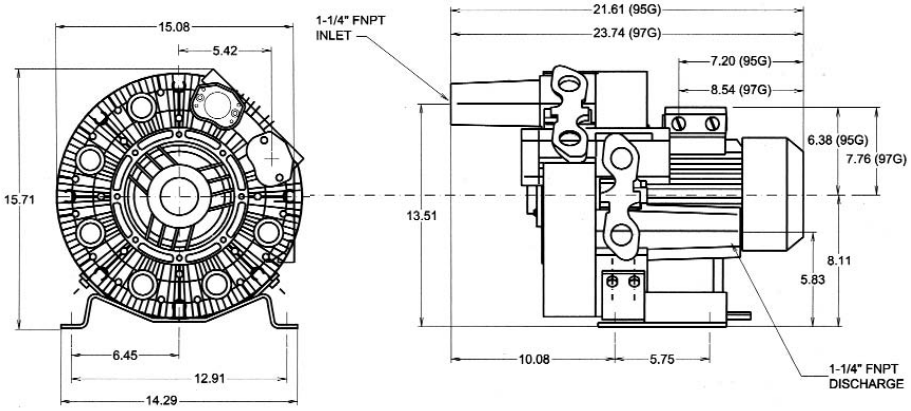
VB Series Explosion-Proof Regenerative Pump VB7HV

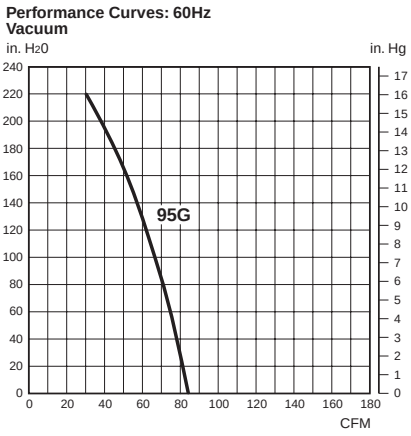
ANVER® CORPORATION



Features:

- Oil free
- Maintenance free
- Operates quietly - maximum 70 dB (A)
- Cooler running outboard bearings increase service life
- Easy to install, close-coupled construction
- Compact lightweight design
- Ideal alternative to standard rotary vane pumps and PD/rotary lobe blowers





Curve No.	Motor Type	Motor HP (Kw)	Voltage	Phase-Frequency	Rated Motor Amps	Shipping Weight lb (kg)	Sound Level
95G	TEFC	3.50	208-230/415-460	3-60Hz	10.1/5.0	88 (39.9)	70 dB(A)

NOTES:

A) Standard voltage for three phase blowers is 208-230/415-460V 3ph/ 60Hz.

B) Standard voltage for single phase blowers is 115/230/1ph/50/60Hz or 115V/1ph/60Hz or 230V/1ph/60Hz.

C) AII blowers available in 50Hz frequency and with other voltages.

D) All blowers operate at 3600 RPM.

Specifications subject to change without notice. • Please contact factory for specification updates.

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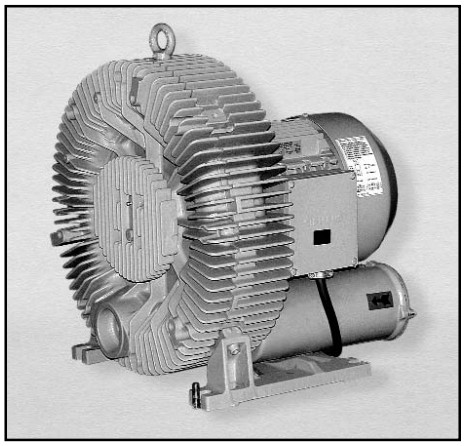
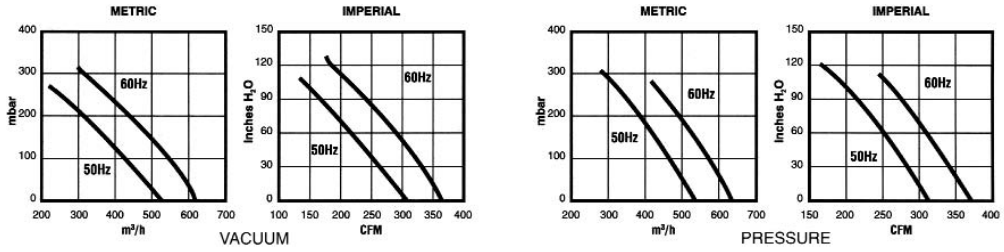
Vacuum Pumps and Generators

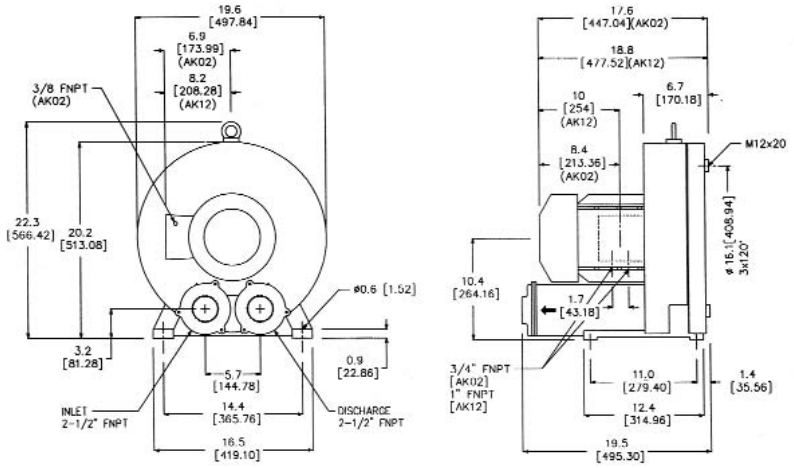
VB Series Explosion-Proof Regenerative Pump VB8HF



Features:

- Cooler running, outboard bearing provides virtually maintenance-free operation in continuous duty service.
- Environmentally friendly oil-free design prevents downstream contamination of gas or components.
- Quiet operation; as low as 75 dB(A)
- Easily mounts in any axle orientation.
- Shock absorbing mounting plate design reduces transmission of vibration between process machinery and the blower.
- Thermal overload protection standard on all models.
- Equipped with high quality TEFC motors manufactured by Siemens, sized to match your operating requirements providing for superior power efficiency.
- IP54 with Class F insulation.
- Quality assured; manufactured in accordance with ISO 9001.
- UL Recognized, CE Compliant. DNE VDE 0530





Hz	Voltage Range	Rated Amps	Rated HP	RPM	Maximum Vacuum in H_20 mbar	Maximum Pressure in H_20 mbar	Maximum Flow CFM m^3h	Net Weight lb kg
60	208-230/415-460	24.0/12.0	8.5	3600	127 (315)	112 (280)	370 (630)	277 (126)
50	380/415	13.5/12.0	4.0	3000	108 (270)	122 (305)	312 (530)	277 (126)

NOTES:

A) Performance tolerance is ±10%.

B) Performance curves are based on an air temperature of 60° F (15° C) at the inlet connection and 29.92 Hg abs (1013 mbar) at the discharge connection.

Specification and performance data are subject to change without notice. Please contact factory for specification updates.

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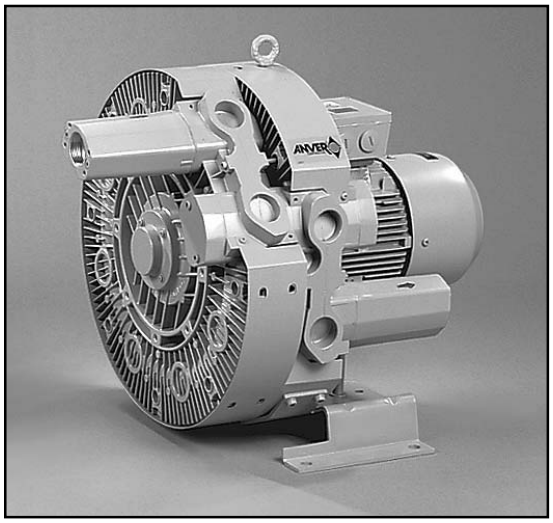
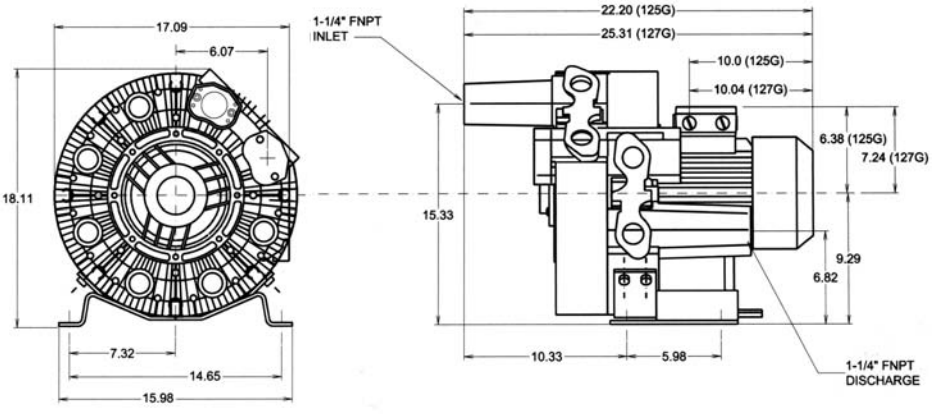
Vacuum Pumps and Generators

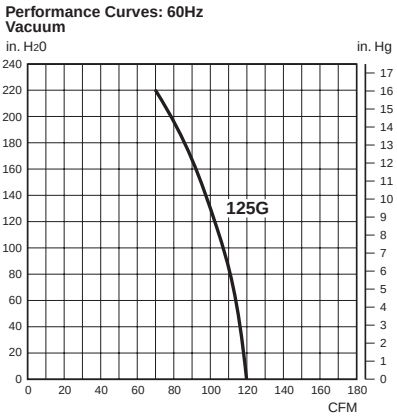
VB Series Explosion-Proof Regenerative Pump VB9HV



Features:

- Oil free
- Maintenance free
- Operates quietly - maximum 71 dB (A)
- Cooler running outboard bearings increase service life
- Easy to install, close-coupled construction
- Compact lightweight design
- Ideal alternative to standard rotary vane pumps and PD/rotary lobe blowers





Curve No.	Motor Type	Motor HP (Kw)	Voltage	Phase-Frequency	Rated Motor Amps	Shipping Weight lb (kg)	Sound Level
125G	TEFC	5.1	208-230/415-460	3-60Hz	14.9/7.5	106 (48.1)	71 dB(A)

NOTES:

A) Standard voltage for three phase blowers is 208-230/415-460V 3ph/ 60Hz.

B) Standard voltage for single phase blowers is 115/230/1ph/50/60Hz or 115V/1ph/60Hz or 230V/1ph/60Hz.

C) AII blowers available in 50Hz frequency and with other voltages.

D) All blowers operate at 3600 RPM.

Specifications subject to change without notice. • Please contact factory for specification updates.

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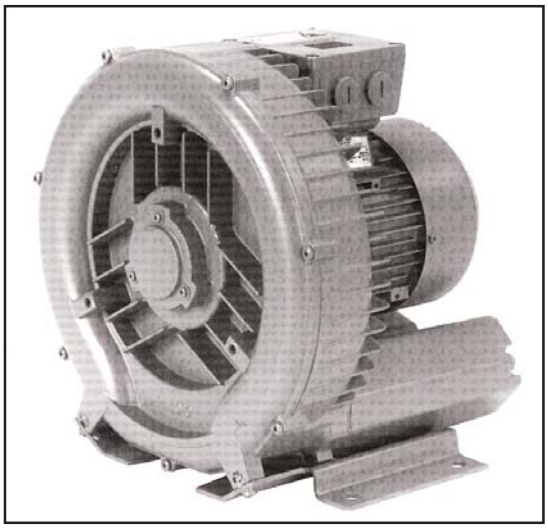
Vacuum Pumps and Generators

High Flow RB Series Regenerative Vacuum Pumps

ANVER CORPORATION



ANVER, in close cooperation with Siemens®, now introduces an extended range of our High Flow series Regenerative Vacuum Pumps. These pumps offer an incredibly compact, quiet, reliable source of vacuum and compressed air. We now carry eight new models, making it easy to find the pump best suited for your vacuum or pressure needs.

Features:

- Oil and Maintenance Free
- Operates Quietly - as low as 80 dB
- Outboard Bearings increase service life - runs cooler
- Compact, Light-weight design - Easy to Install
- Good for both Vacuum and Pressure Applications
- Ideal Alternative to standard Rotary Vane Pumps and PD/Rotary Lobe Blowers
- Wired to 230/460 Volts

Anver Part Number	Seimens Part Number	HP	SCFM (l/min.)	Max. Vacuum in. Hg (mm Hg)	Amps	Shipping Wt. lb (kg)
RB-053-05	2BH13007AH16	0.87	53 (1500)	4.5 (114)	2.8 / 1.4	22 (10)
RB-100-10	2BH14107HH46	3.40	106 (3002)	10.5 (267)	10.0 / 5.0	59 (27)
RB-122-10	2BH15107HH46	4.60	152 (4305)	12.5 (318)	13.0 / 6.5	84 (38)
RB-175-11	2BH16107HH46	8.50	225 (6372)	13 (330)	23.0 / 11.5	154 (70)
RB-330-14	2BH18107HH36	17.00	335 (9487)	14.5 (368)	46.0 / 23.0	452 (205)
RB-735-08	2BH19007AH16	21.00	690 (19540)	9 (229)	48.0 / 24.0	420 (191)
RB-750-11	2BH19107HH	27.00	780 (22090)	11 (279)	72.0 / 36.0	612 (278)

Typical Applications:

- Material Handling
- Packaging Machinery
- Vacuum Chucking
- Bagging & Bottling
- Thermoforming
- Medical Equipment
- Pneumatic Conveying

Note: Not Recommended for use with Vacuum Tube Lifting Systems. See our Standard VB Series Regenerative Vacuum Stations specifically designed for use with vacuum tube lifting systems.

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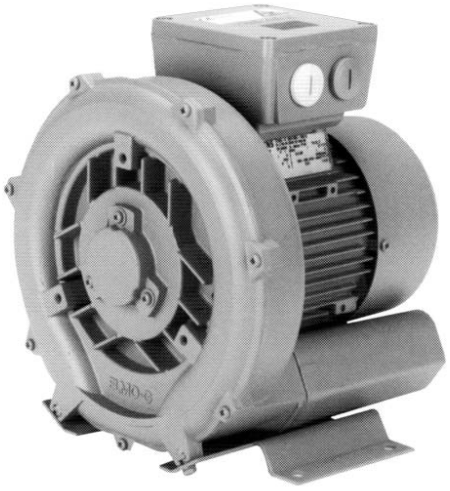
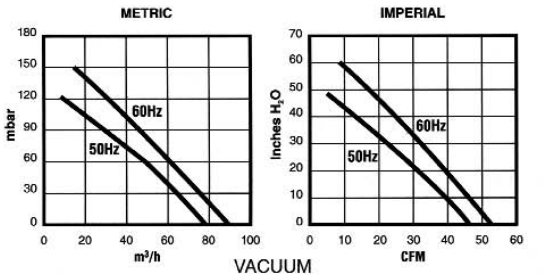
Vacuum Pumps and Generators

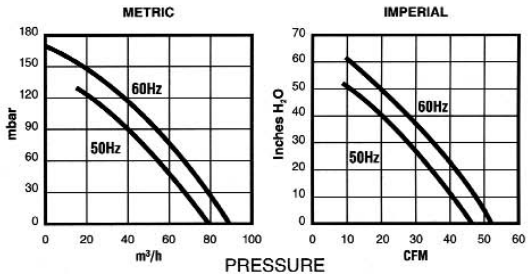
RB Series High Flow Regenerative Pump RB-053-05

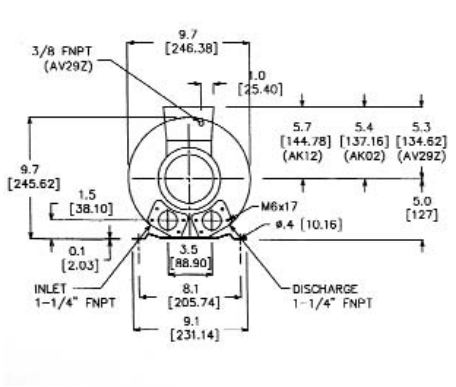


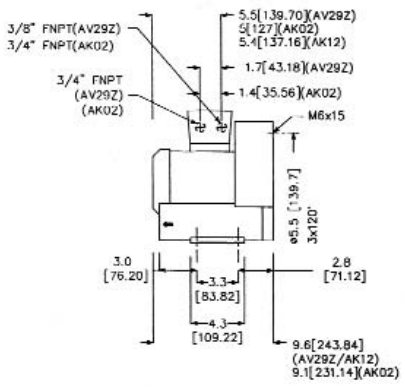
Features:

- Cooler running, outboard bearing provides virtually maintenance-free operation in continuous duty service.
- Environmentally friendly oil-free design prevents downstream contamination of gas or components.
- Quiet operation; as low as 61 dB(A)
- Easily mounts in any axle orientation.
- Shock absorbing mounting plate design reduces transmission of vibration between process machinery and the blower.
- Thermal overload protection standard on all models.
- Equipped with high quality TEFC motors manufactured by Siemens, sized to match your operating requirements providing for superior power efficiency.
- IP54 with Class F insulation.
- Quality assured; manufactured in accordance with ISO 9001.
- UL Recognized, CE Compliant. DNE VDE 0530









Hz	Voltage Range	Rated Amps	Rated HP	RPM	Maximum Vacuum in H_20 mbar	Maximum Pressure in H_20 mbar	Maximum Flow CFM m^3h	Net Weight lb kg
60	208-230/ 415-460	2.8/1.4	.67	3600	60 (150)	68 (170)	53 (89)	22 (10)
50	220/380/415	2.1/1.1/1.0	.54	3000	48 (120)	52 (130)	46 (78)	22 (10)

NOTES:

A) Performance tolerance is ±10%.

B) Performance curves are based on an air temperature of 60° F (15° C) at the inlet connection and 29.92 Hg abs (1013 mbar) at the discharge connection.

Specification and performance data are subject to change without notice. Please contact factory for specification updates.

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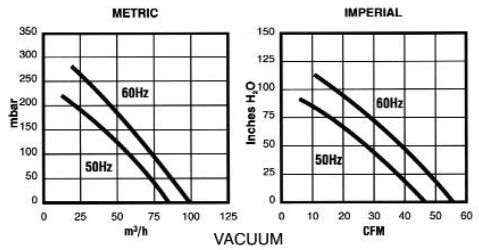
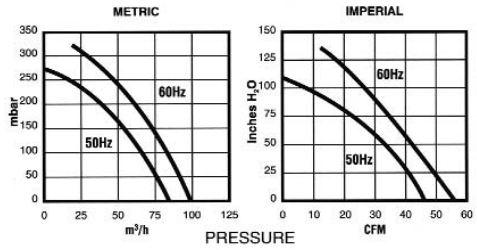
Vacuum Pumps and Generators

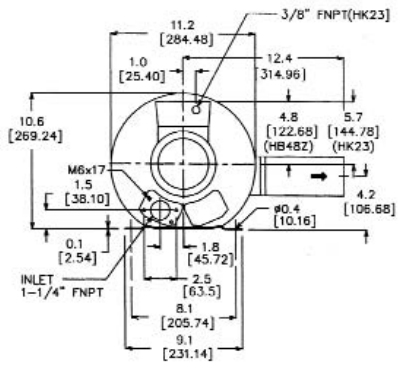
RB Series High Flow Regenerative Pump RB-059-08

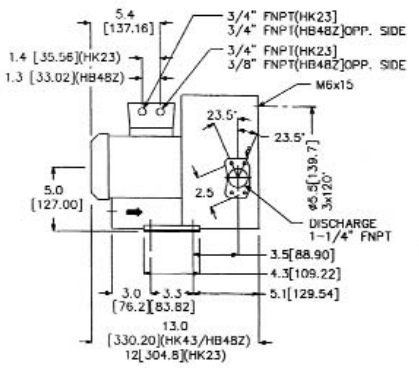
Features:

- Cooler running, outboard bearing provides virtually maintenance-free operation in continuous duty service.
- Environmentally friendly oil-free design prevents downstream contamination of gas or components.
- Quiet operation; as low as 66 dB(A)
- Easily mounts in any axle orientation.
- Shock absorbing mounting plate design reduces transmission of vibration between process machinery and the blower.
- Thermal overload protection standard on all models.
- Equipped with high quality TEFC motors manufactured by Siemens, sized to match your operating requirements providing for superior power efficiency.
- IP54 with Class F insulation.
- Quality assured; manufactured in accordance with ISO 9001.
- UL Recognized, CE Compliant. DNE VDE 0530









Hz	Voltage Range	Rated Amps	Rated HP	RPM	Maximum Vacuum in H_20 mbar	Maximum Pressure in H_20 mbar	Maximum Flow CFM m^3h	Net Weight lb kg
60	230/460	5.6/2.8	1.88	3600	110 (280)	135 (335)	59 (100)	37 (17)
50	200/400	5.8/2.9	1.6	3000	110 (280)	110 (270)	50 (85)	37 (17)

NOTES:

A) Performance tolerance is ±10%.

B) Performance curves are based on an air temperature of 60° F (15° C) at the inlet connection and 29.92 Hg abs (1013 mbar) at the discharge connection.

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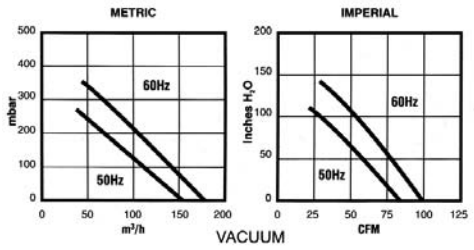
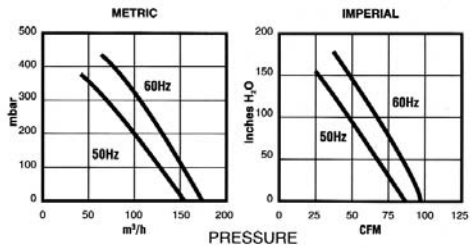
Vacuum Pumps and Generators

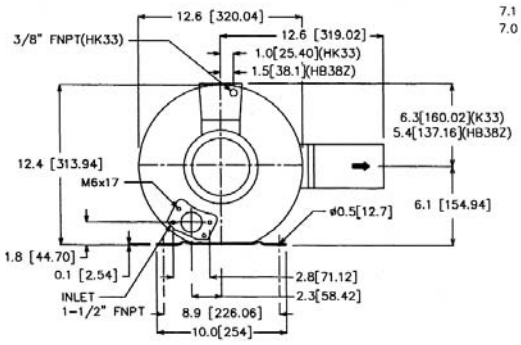
RB Series High Flow Regenerative Pump RB-100-10

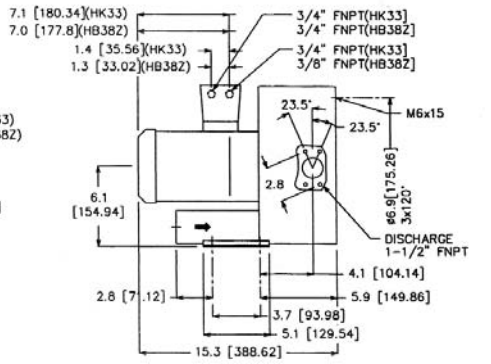
Features:

- Cooler running, outboard bearing provides virtually maintenance-free operation in continuous duty service.
- Environmentally friendly oil-free design prevents downstream contamination of gas or components.
- Quiet operation; as low as 69 dB(A)
- Easily mounts in any axle orientation.
- Shock absorbing mounting plate design reduces transmission of vibration between process machinery and the blower.
- Thermal overload protection standard on all models.
- Equipped with high quality TEFC motors manufactured by Siemens, sized to match your operating requirements providing for superior power efficiency.
- IP54 with Class F insulation.
- Quality assured; manufactured in accordance with ISO 9001.
- UL Recognized, CE Compliant. DNE VDE 0530









Hz	Voltage Range	Rated Amps	Rated HP	RPM	Maximum Vacuum in H_20 mbar	Maximum Pressure in H_20 mbar	Maximum Flow CFM m^3h	Net Weight lb kg
60	230/460	10.0/5.0	3.4	3600	140 (350)	175 (440)	100 (175)	59 (27)
50	200/400	10.0/5.0	2.95	3000	110 (280)	150 (375)	85 (155)	59 (27)

NOTES:

A) Performance tolerance is ±10%.

B) Performance curves are based on an air temperature of 60° F (15° C) at the inlet connection and 29.92 Hg abs (1013 mbar) at the discharge connection.

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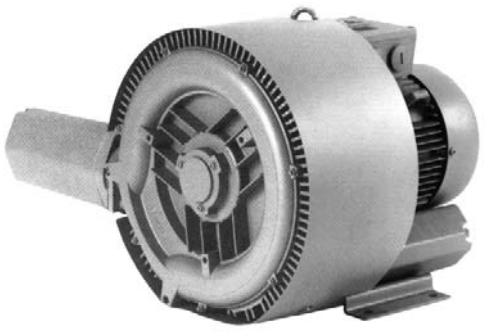
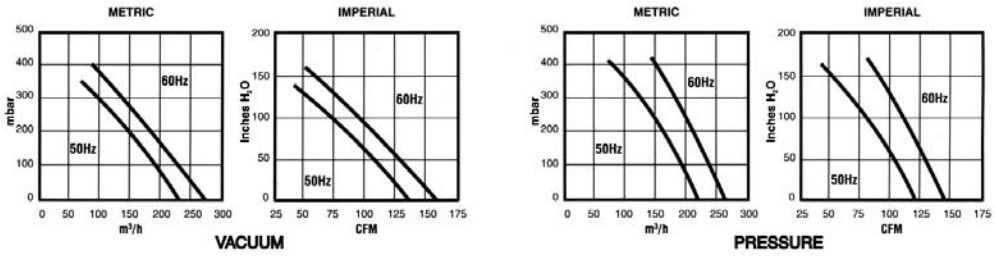
Vacuum Pumps and Generators

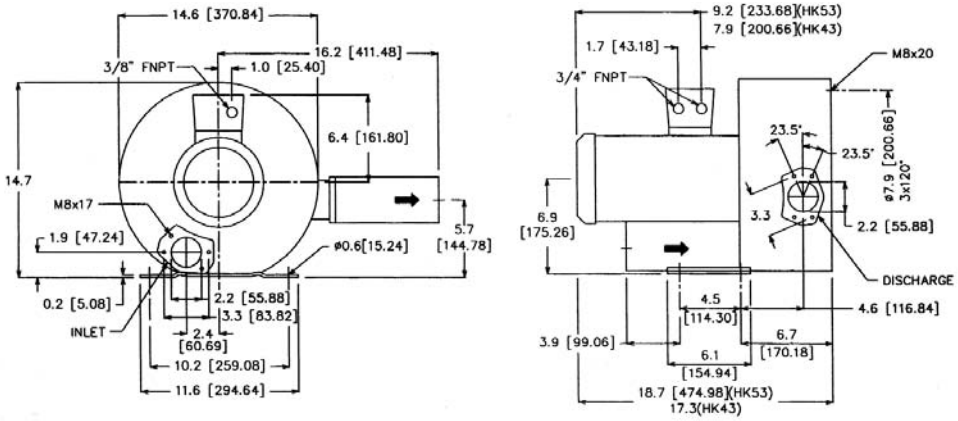
RB Series High Flow Regenerative Pump RB-122-10



Features:

- Cooler running, outboard bearing provides virtually maintenance-free operation in continuous duty service.
- Environmentally friendly oil-free design prevents downstream contamination of gas or components.
- Quiet operation; as low as 77 dB(A)
- Easily mounts in any axle orientation.
- Shock absorbing mounting plate design reduces transmission of vibration between process machinery and the blower.
- Thermal overload protection standard on all models.
- Equipped with high quality TEFC motors manufactured by Siemens, sized to match your operating requirements providing for superior power efficiency.
- IP54 with Class F insulation.
- Quality assured; manufactured in accordance with ISO 9001.
- UL Recognized, CE Compliant. DNE VDE 0530





Hz	Voltage Range	Rated Amps	Rated HP	RPM	Maximum Vacuum in H_20 mbar	Maximum Pressure in H_20 mbar	Maximum Flow CFM m^3h	Net Weight lb kg
60	230/460	13.0/6.5	4.6	3600	165 (400)	170 (425)	145 (260)	84 (38)
50	200/400	13.0/6.5	4.0	3000	140 (350)	170 (420)	122 (220)	84 (38)

NOTES:

A) Performance tolerance is ±10%.

B) Performance curves are based on an air temperature of 60° F (15° C) at the inlet connection and 29.92 Hg abs (1013 mbar) at the discharge connection.

Specification and performance data are subject to change without notice. Please contact factory for specification updates.

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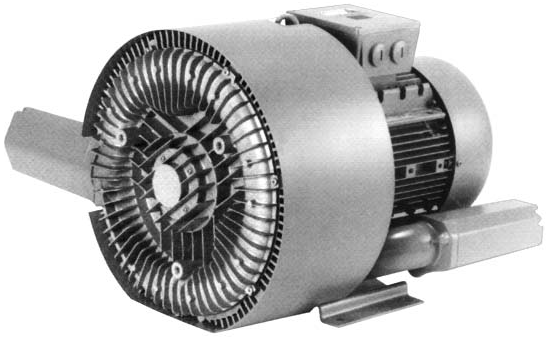
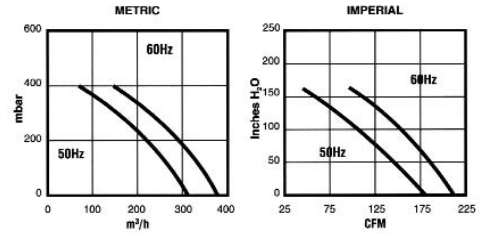
Vacuum Pumps and Generators

RB Series High Flow Regenerative Pump RB-175-11

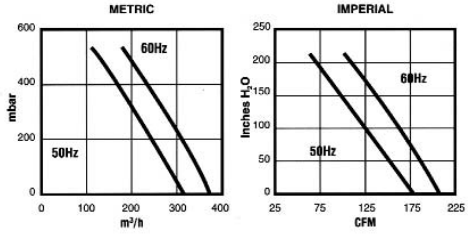


Features:

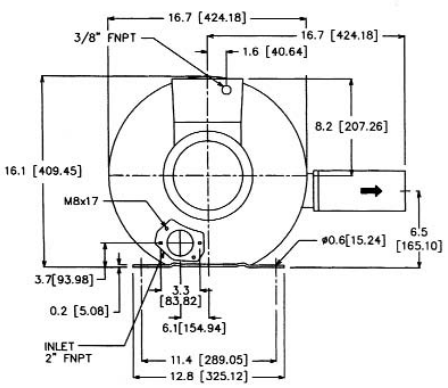
- Cooler running, outboard bearing provides virtually maintenance-free operation in continuous duty service.
- Environmentally friendly oil-free design prevents downstream contamination of gas or components.
- Quiet operation; as low as 79 dB(A)
- Easily mounts in any axle orientation.
- Shock absorbing mounting plate design reduces transmission of vibration between process machinery and the blower.
- Thermal overload protection standard on all models.
- Equipped with high quality TEFC motors manufactured by Siemens, sized to match your operating requirements providing for superior power efficiency.
- IP54 with Class F insulation.
- Quality assured; manufactured in accordance with ISO 9001.
- UL Recognized, CE Compliant. DNE VDE 0530

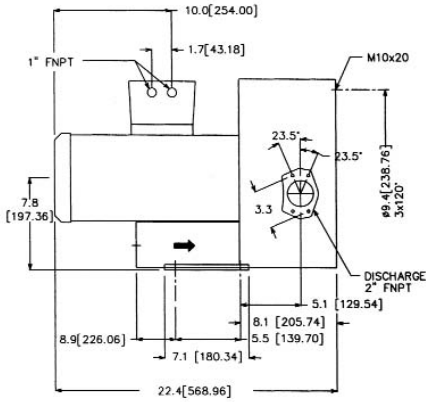


VACUUM



PRESSURE





Hz	Voltage Range	Rated Amps	Rated HP	RPM	Maximum Vacuum in H_20 mbar	Maximum Pressure in H_20 mbar	Maximum Flow CFM m^3h	Net Weight lb kg
60	230/460	23.0/11.5	8.5	3600	175 (430)	215 (530)	210 (375)	154 (70)
50	345-380	23.0/11.5	7.4	3000	165 (400)	215 (530)	175 (315)	154 (70)

NOTES:

A) Performance tolerance is ±10%.

B) Performance curves are based on an air temperature of 60° F (15° C) at the inlet connection and 29.92 Hg abs (1013 mbar) at the discharge connection.

Specification and performance data are subject to change without notice. Please contact factory for specification updates.

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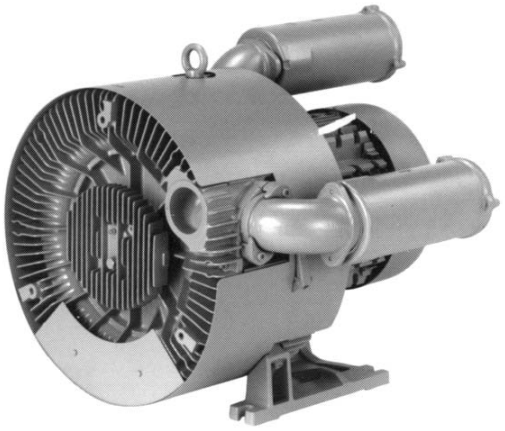
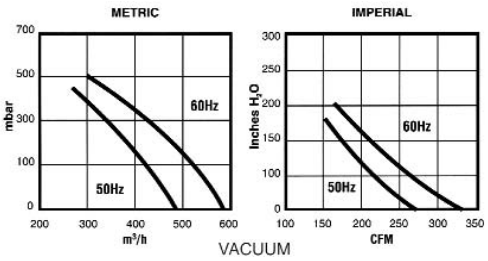
Vacuum Pumps and Generators

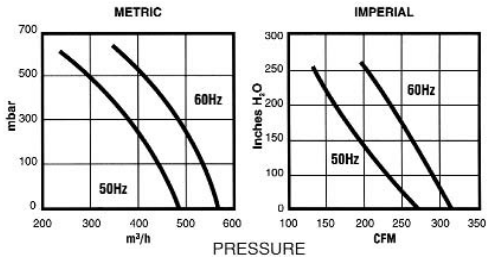
RB Series High Flow Regenerative Pump RB-330-14

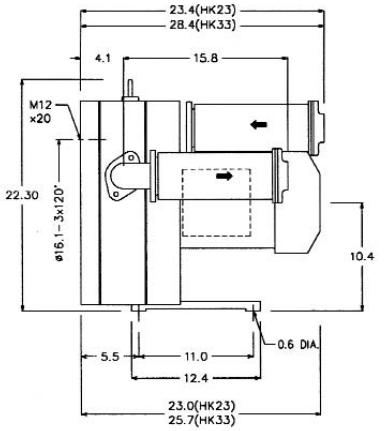


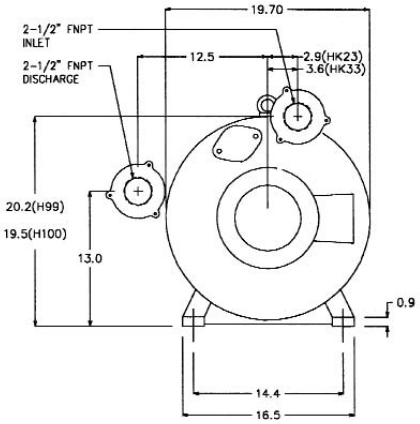
Features:

- Cooler running, outboard bearing provides virtually maintenance-free operation in continuous duty service.
- Environmentally friendly oil-free design prevents downstream contamination of gas or components.
- Quiet operation; as low as 75 dB(A)
- Easily mounts in any axle orientation.
- Shock absorbing mounting plate design reduces transmission of vibration between process machinery and the blower.
- Thermal overload protection standard on all models.
- Equipped with high quality TEFC motors manufactured by Siemens, sized to match your operating requirements providing for superior power efficiency.
- IP54 with Class F insulation.
- Quality assured; manufactured in accordance with ISO 9001.
- UL Recognized, CE Compliant. DNE VDE 0530









Hz	Voltage Range	Rated Amps	Rated HP	RPM	Maximum Vacuum in H_20 mbar	Maximum Pressure in H_20 mbar	Maximum Flow CFM m^3h	Net Weight lb kg
60	230/460	46.0/23.0	17	3600	200 (500)	265 (660)	330 (590)	452 (205)
50	200-400	46.0/23.0	14.75	3000	185 (460)	260 (640)	275 (490)	452 (205)

NOTES:

A) Performance tolerance is ±10%.

B) Performance curves are based on an air temperature of 60° F (15° C) at the inlet connection and 29.92 Hg abs (1013 mbar) at the discharge connection.

Specification and performance data are subject to change without notice. Please contact factory for specification updates.

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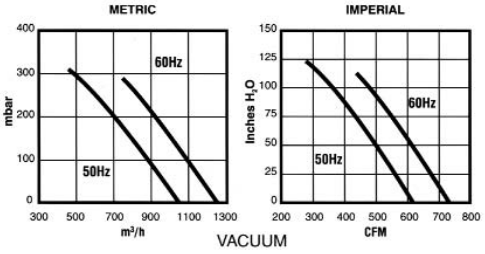
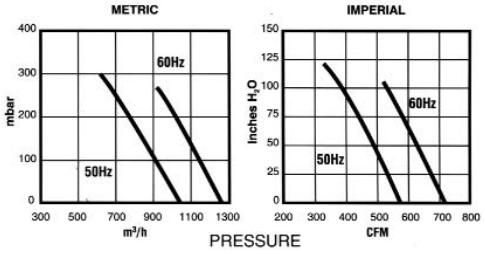
Vacuum Pumps and Generators

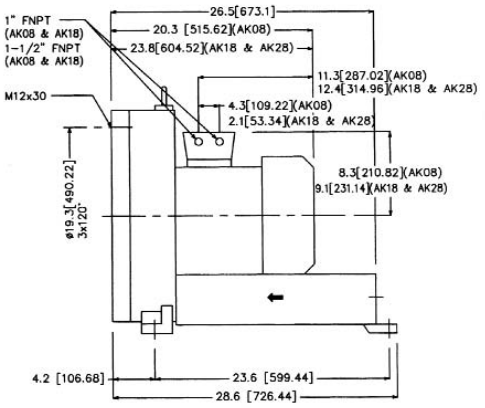
RB Series High Flow Regenerative Pump RB-735-08

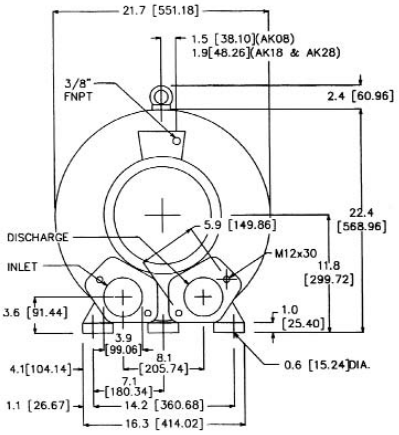
Features:

- Cooler running, outboard bearing provides virtually maintenance-free operation in continuous duty service.
- Environmentally friendly oil-free design prevents downstream contamination of gas or components.
- Quiet operation; as low as 80 dB(A)
- Easily mounts in any axle orientation.
- Shock absorbing mounting plate design reduces transmission of vibration between process machinery and the blower.
- Thermal overload protection standard on all models.
- Equipped with high quality TEFC motors manufactured by Siemens, sized to match your operating requirements providing for superior power efficiency.
- IP54 with Class F insulation.
- Quality assured; manufactured in accordance with ISO 9001.
- UL Recognized, CE Compliant. DNE VDE 0530









Hz	Voltage Range	Rated Amps	Rated HP	RPM	Maximum Vacuum in H_20 mbar	Maximum Pressure in H_20 mbar	Maximum Flow CFM m^3h	Net Weight lb kg
60	230/460	48.0/24.0	21	3600	116 (290)	108 (270)	735 (1250)	420 (191)
50	200-400	48.0/24.0	16.5	3000	124 (310)	120 (300)	617 (1050)	420 (191)

NOTES:

A) Performance tolerance is ±10%.

B) Performance curves are based on an air temperature of 60° F (15° C) at the inlet connection and 29.92 Hg abs (1013 mbar) at the discharge connection.

Specification and performance data are subject to change without notice. Please contact factory for specification updates.

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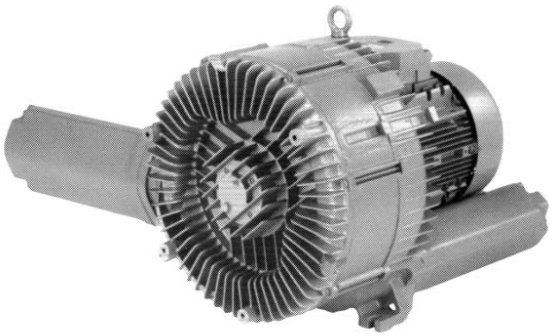
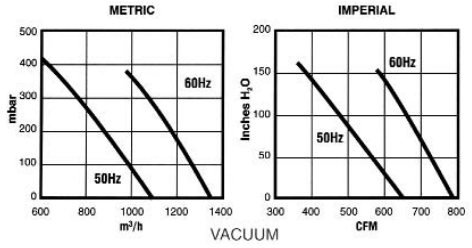
Vacuum Pumps and Generators

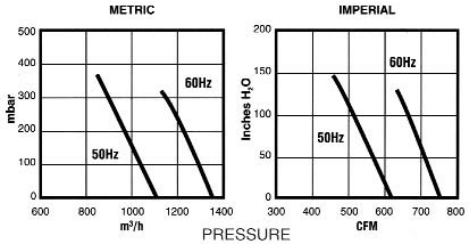
RB Series High Flow Regenerative Pump RB-750-11

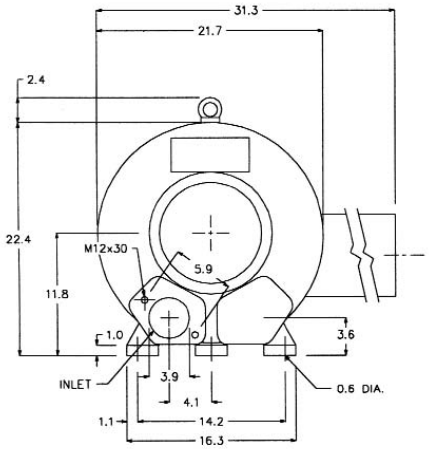


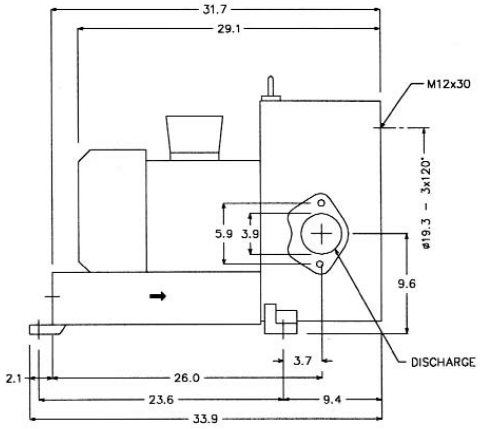
Features:

- Cooler running, outboard bearing provides virtually maintenance-free operation in continuous duty service.
- Environmentally friendly oil-free design prevents downstream contamination of gas or components.
- Quiet operation; as low as 80 dB(A)
- Easily mounts in any axle orientation.
- Shock absorbing mounting plate design reduces transmission of vibration between process machinery and the blower.
- Thermal overload protection standard on all models.
- Equipped with high quality TEFC motors manufactured by Siemens, sized to match your operating requirements providing for superior power efficiency.
- IP54 with Class F insulation.
- Quality assured; manufactured in accordance with ISO 9001.
- UL Recognized, CE Compliant. DNE VDE 0530









Hz	Voltage Range	Rated Amps	Rated HP	RPM	Maximum Vacuum in H_20 mbar	Maximum Pressure in H_20 mbar	Maximum Flow CFM m^3h	Net Weight lb kg
60	230/460	72.0/36.0	26.8	3600	150 (380)	130 (320)	795 (1350)	612 (278)
50	200-400	76.0/38.0	22.8	3000	165 (410)	150 (370)	650 (1100)	612 (278)

NOTES:

A) Performance tolerance is ±10%.

B) Performance curves are based on an air temperature of 60° F (15° C) at the inlet connection and 29.92 Hg abs (1013 mbar) at the discharge connection.

Specification and performance data are subject to change without notice. Please contact factory for specification updates.

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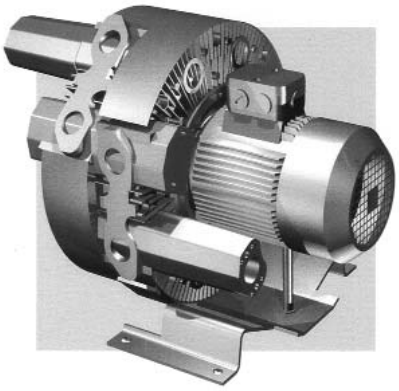
Vacuum Pumps and Generators

High Vacuum RB Series Regenerative Vacuum Pumps



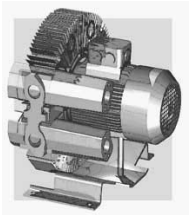
Models: RB-036-11, RB-050-13, RB-061-12

In order to remain a leader in the vacuum equipment field, ANVER is constantly expanding its range of products. We are pleased to announce the addition of nine new models in our High Vacuum / Pressure Regenerative Pump line. Our close relationship with Siemens® allows us to offer these high quality pumps at extremely competitive prices. These pumps are suitable for a variety of vacuum and pressure applications. However, they are not recommended for Vacuum Tube Lifting Systems.

Features:

- Oil and Maintenance Free
- Operates Quietly - maximum 72 dB
- Outboard Bearings increase service life - runs cooler
- Compact, Light-weight design - Easy to Install
- Good for both Vacuum and Pressure Applications
- Ideal Alternative to standard Rotary Vane Pumps and PD/Rotary Lobe Blowers
- Can be wired at either 208-230 or 415-460

Anver Part Number	Seimens Part Number	HP	SCFM (l/min.)	Max. Vacuum in. Hg (mm Hg)	Rated Amps	Shipping Wt. lb (kg)
RB-035-08	2BH7210OAK127	0.85	35 (991)	8 (203)	3.2 / 1.6	35 (16)
RB-036-11	2BH7220OAH267	1.26	35 (991)	12 (304)	4.2 / 2.1	52 (24)
RB-050-09	2BH7310OAK127	0.80	50 (1416)	8 (203)	3.2 / 1.6	35 (16)
RB-050-13	2BH7320OAK42	1.75	50 (1416)	13 (330)	5.4 / 2.7	62 (28)
RB-062-10	2BH7410OAH167	1.75	65 (1841)	10 (254)	6.2 / 3.1	51 (23)
RB-061-12	2BH7420OAH26	2.40	61 (1727)	13 (330)	7.0 / 3.5	73 (33)
RB-090-11	2BH7510OAH168	2.35	90 (2549)	11 (279)	7.2 / 3.6	57 (26)
RB-119-11	2BH7610OAK12	3.50	120 (3398)	11 (279)	10.7 / 5.4	71 (32)
RB-120-20	2BH7630OAH6682	7.60	120 (3398)	20 (508)	20.0 / 10.0	104 (47)



Models:
RB-035-08
RB-050-09
RB-062-10,
RB-090-11
RB-119-11

Model:
RB-120-20

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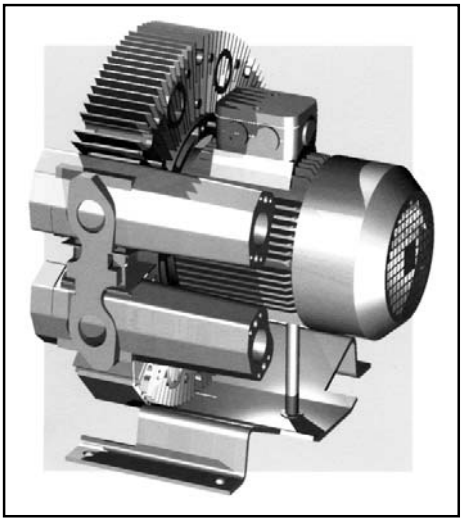
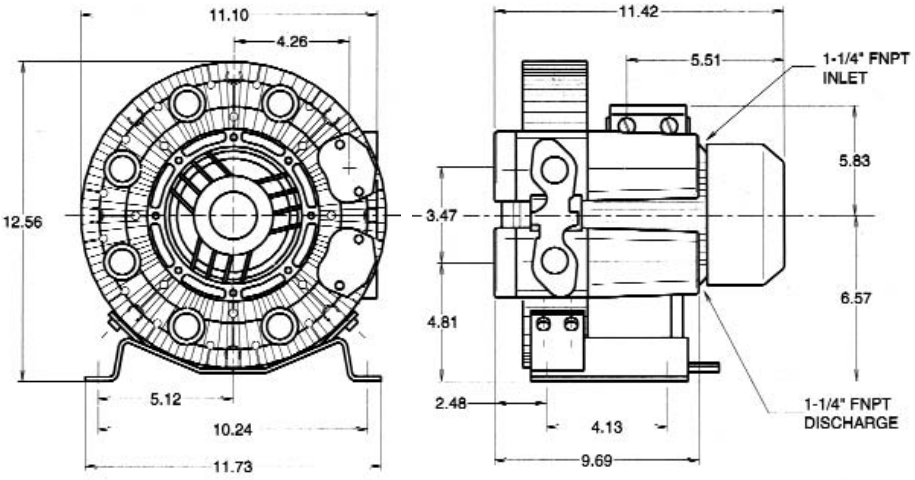
Vacuum Pumps and Generators

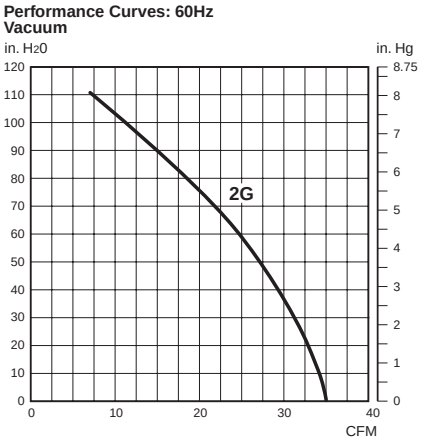
High Vacuum RB Series Regenerative Pump RB-035-08



Features:

- Oil free
- Maintenance free
- Operates quietly - maximum 70 dB (A)
- Cooler running outboard bearings increase service life
- Easy to install, close-coupled construction
- Compact lightweight design
- Ideal alternative to standard rotary vane pumps and PD/rotary lobe blowers





Curve No.	Motor Type	Motor HP (Kw)	Voltage	Phase-Frequency	Rated Motor Amps	Shipping Weight lb (kg)	Sound Level
2G	TEFC	0.85	208-230/415-460	3-60Hz	3.2/1.6	35 (15.9)	62 dB(A)

NOTES:

A) Standard voltage for three phase blowers is 208-230/415-460V 3ph/ 60Hz.

B) Standard voltage for single phase blowers is 115/230/1ph/50/60Hz or 115V/1ph/60Hz or 230V/1ph/60Hz.

C) AII blowers available in 50Hz frequency and with other voltages.

D) All blowers operate at 3600 RPM.

Specifications subject to change without notice. • Please contact factory for specification updates.

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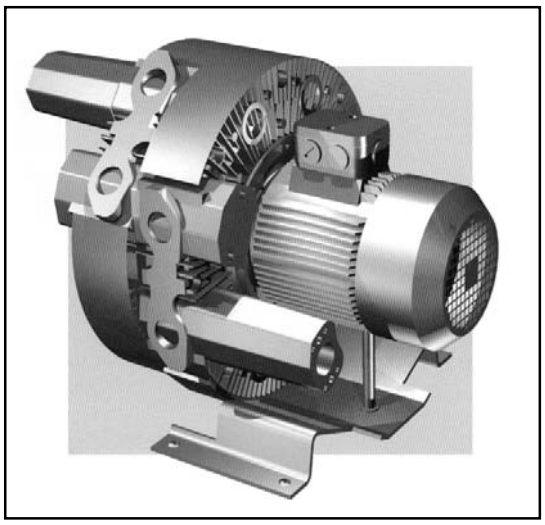
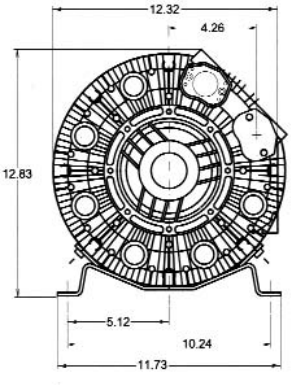
Vacuum Pumps and Generators

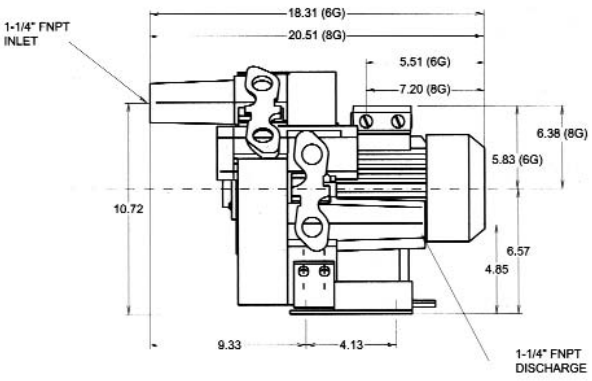
High Vacuum RB Series Regenerative Pump RB-036-11

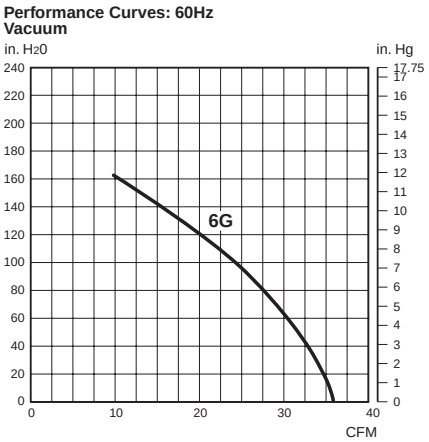


Features:

- Oil free
- Maintenance free
- Operates quietly - maximum 70 dB (A)
- Cooler running outboard bearings increase service life
- Easy to install, close-coupled construction
- Compact lightweight design
- Ideal alternative to standard rotary vane pumps and PD/rotary lobe blowers







Curve No.	Motor Type	Motor HP (Kw)	Voltage	Phase-Frequency	Rated Motor Amps	Shipping Weight lb (kg)	Sound Level
6G	TEFC	1.26	208-230/415-460	3-60Hz	4.2/2.1	52 (23.6)	62 dB(A)

NOTES:

A) Standard voltage for three phase blowers is 208-230/415-460V 3ph/ 60Hz.

B) Standard voltage for single phase blowers is 115/230/1ph/50/60Hz or 115V/1ph/60Hz or 230V/1ph/60Hz.

C) AII blowers available in 50Hz frequency and with other voltages.

D) All blowers operate at 3600 RPM.

Specifications subject to change without notice. • Please contact factory for specification updates.

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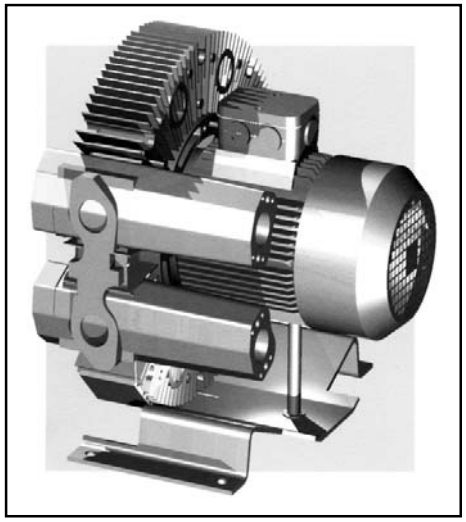
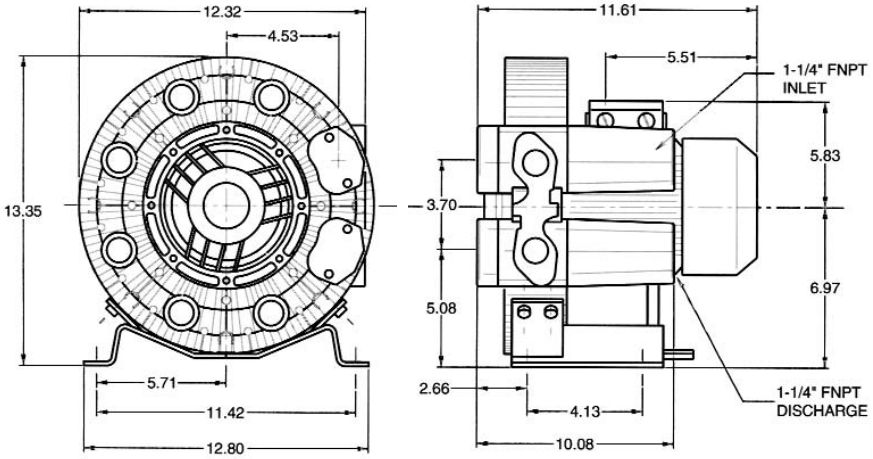
Vacuum Pumps and Generators

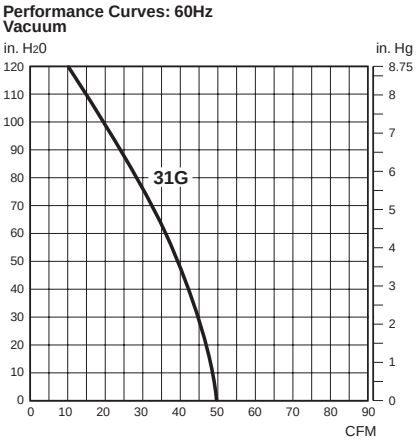
High Vacuum RB Series Regenerative Pump RB-050-09



Features:

- Oil free
- Maintenance free
- Operates quietly - maximum 70 dB (A)
- Cooler running outboard bearings increase service life
- Easy to install, close-coupled construction
- Compact lightweight design
- Ideal alternative to standard rotary vane pumps and PD/rotary lobe blowers





Curve No.	Motor Type	Motor HP (Kw)	Voltage	Phase-Frequency	Rated Motor Amps	Shipping Weight lb (kg)	Sound Level
31G	TEFC	0.80	208-230/415-460	3-60Hz	3.2/1.6	35 (15.9)	62 dB(A)

NOTES:

A) Standard voltage for three phase blowers is 208-230/415-460V 3ph/ 60Hz.

B) Standard voltage for single phase blowers is 115/230/1ph/50/60Hz or 115V/1ph/60Hz or 230V/1ph/60Hz.

C) AII blowers available in 50Hz frequency and with other voltages.

D) All blowers operate at 3600 RPM.

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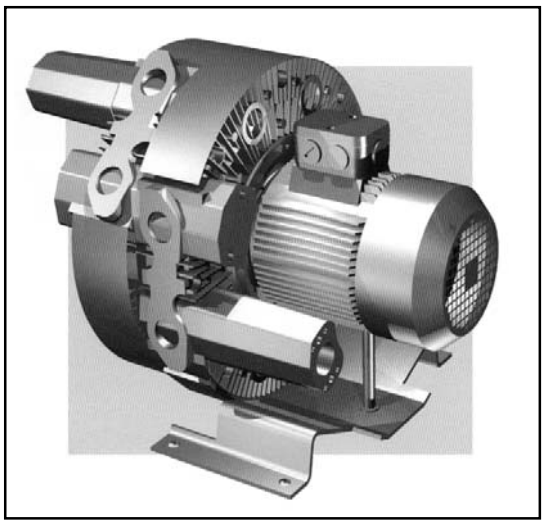
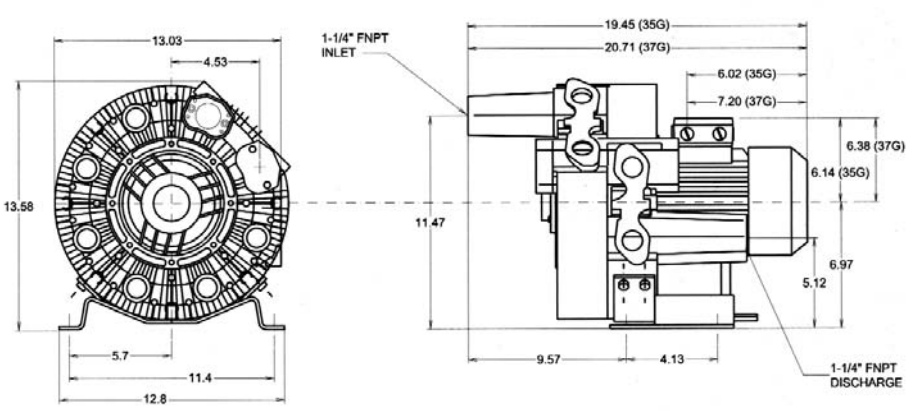
Vacuum Pumps and Generators

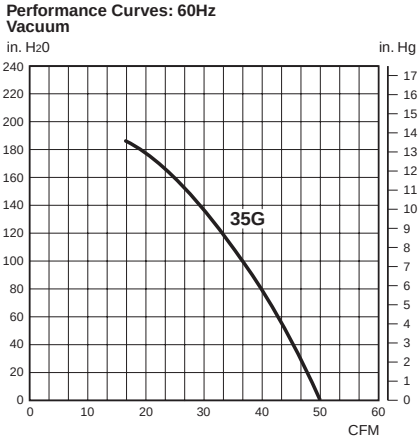
High Vacuum RB Series Regenerative Pump RB-050-13



Features:

- Oil free
- Maintenance free
- Operates quietly - maximum 70 dB (A)
- Cooler running outboard bearings increase service life
- Easy to install, close-coupled construction
- Compact lightweight design
- Ideal alternative to standard rotary vane pumps and PD/rotary lobe blowers





Curve No.	Motor Type	Motor HP (Kw)	Voltage	Phase-Frequency	Rated Motor Amps	Shipping Weight lb (kg)	Sound Level
35G	TEFC	1.75	208-230/415-460	3-60Hz	5.4/2.7	62 (28.1)	62 dB(A)

NOTES:

A) Standard voltage for three phase blowers is 208-230/415-460V 3ph/ 60Hz.

B) Standard voltage for single phase blowers is 115/230/1ph/50/60Hz or 115V/1ph/60Hz or 230V/1ph/60Hz.

C) AII blowers available in 50Hz frequency and with other voltages.

D) All blowers operate at 3600 RPM.

Specifications subject to change without notice. • Please contact factory for specification updates.

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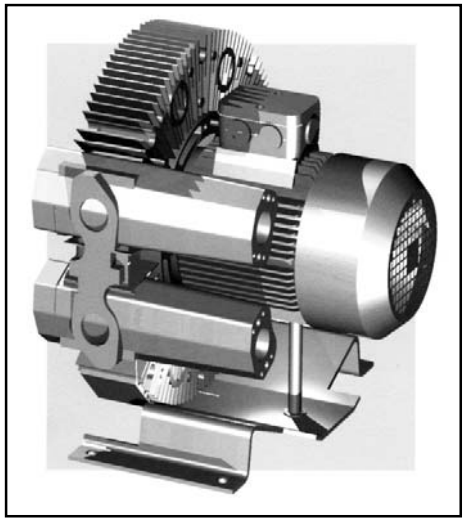
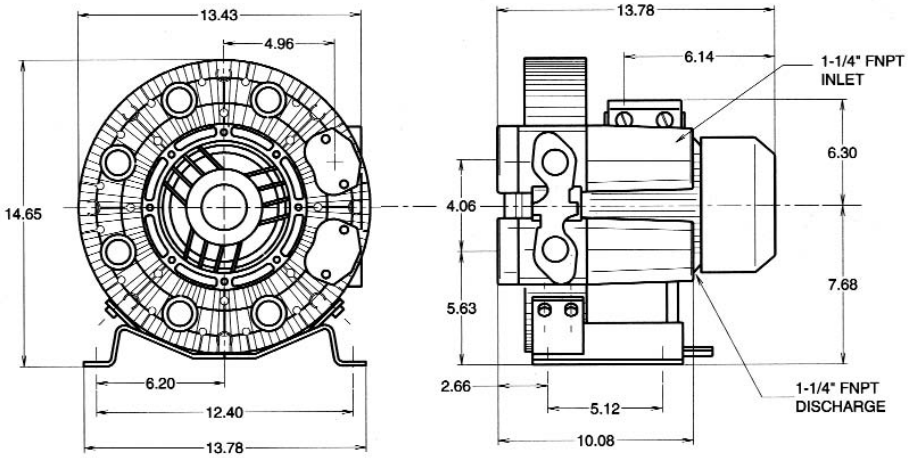
Vacuum Pumps and Generators

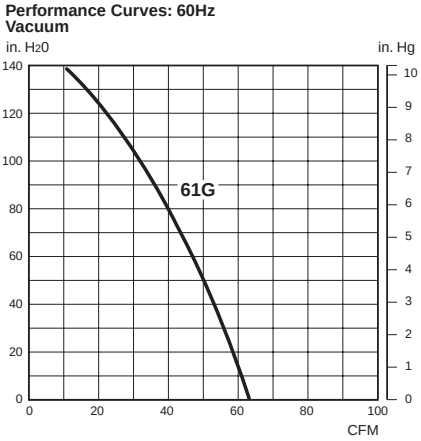
High Vacuum RB Series Regenerative Pump RB-062-10



Features:

- Oil free
- Maintenance free
- Operates quietly - maximum 70 dB (A)
- Cooler running outboard bearings increase service life
- Easy to install, close-coupled construction
- Compact lightweight design
- Ideal alternative to standard rotary vane pumps and PD/rotary lobe blowers





Curve No.	Motor Type	Motor HP (Kw)	Voltage	Phase-Frequency	Rated Motor Amps	Shipping Weight lb (kg)	Sound Level
61G	TEFC	1.75	208-230/415-460	3-60Hz	6.2/3.1	51 (15.9)	62 dB(A)

NOTES:

A) Standard voltage for three phase blowers is 208-230/415-460V 3ph/ 60Hz.

B) Standard voltage for single phase blowers is 115/230/1ph/50/60Hz or 115V/1ph/60Hz or 230V/1ph/60Hz.

C) AII blowers available in 50Hz frequency and with other voltages.

D) All blowers operate at 3600 RPM.

Specifications subject to change without notice. • Please contact factory for specification updates.

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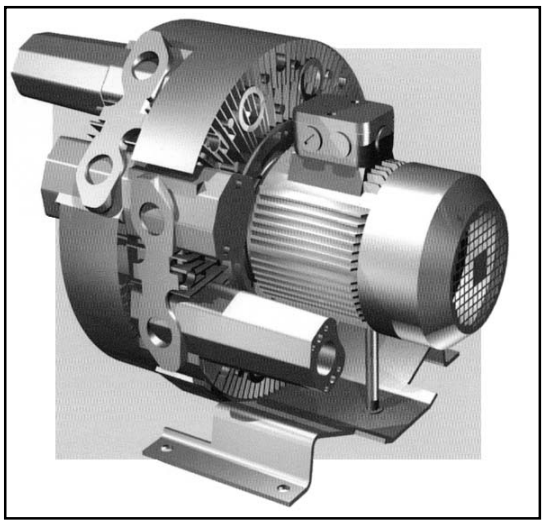
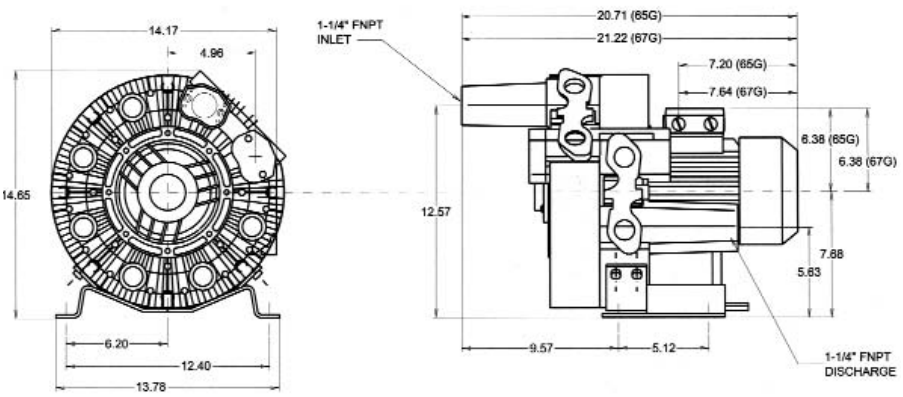
Vacuum Pumps and Generators

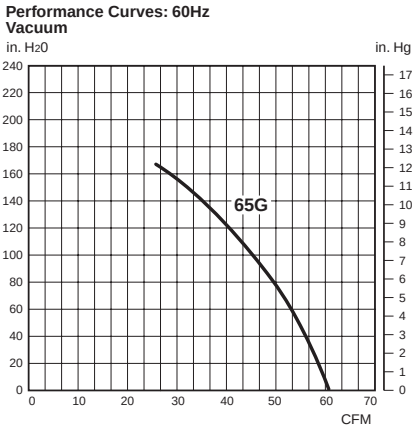
High Vacuum RB Series Regenerative Pump RB-061-12



Features:

- Oil free
- Maintenance free
- Operates quietly - maximum 70 dB (A)
- Cooler running outboard bearings increase service life
- Easy to install, close-coupled construction
- Compact lightweight design
- Ideal alternative to standard rotary vane pumps and PD/rotary lobe blowers





Curve No.	Motor Type	Motor HP (Kw)	Voltage	Phase-Frequency	Rated Motor Amps	Shipping Weight lb (kg)	Sound Level
65G	TEFC	2.40	208-230/415-460	3-60Hz	7.0/3.5	73 (33.1)	66 dB(A)

NOTES:

A) Standard voltage for three phase blowers is 208-230/415-460V 3ph/ 60Hz.

B) Standard voltage for single phase blowers is 115/230/1ph/50/60Hz or 115V/1ph/60Hz or 230V/1ph/60Hz.

C) AII blowers available in 50Hz frequency and with other voltages.

D) All blowers operate at 3600 RPM.

Specifications subject to change without notice. • Please contact factory for specification updates.

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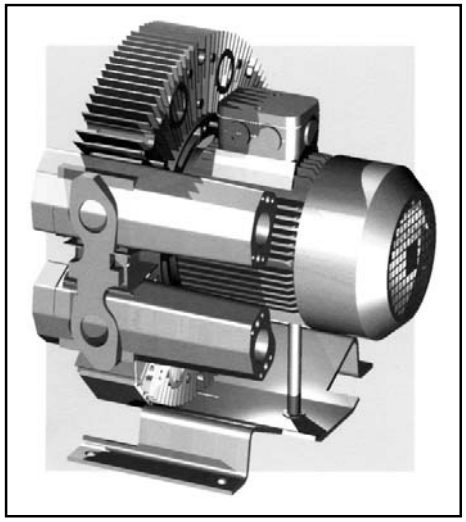
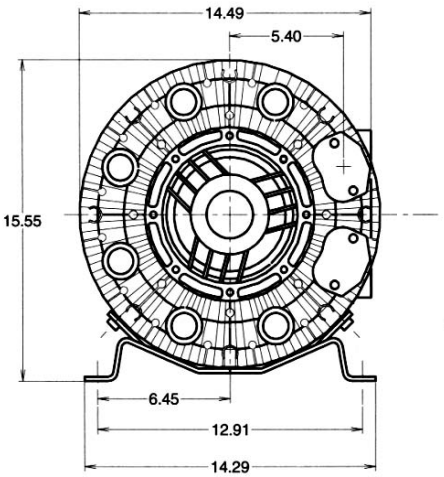
Vacuum Pumps and Generators

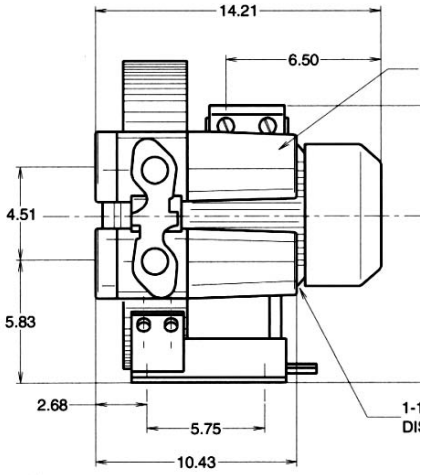
High Vacuum RB Series Regenerative Pump RB-090-11

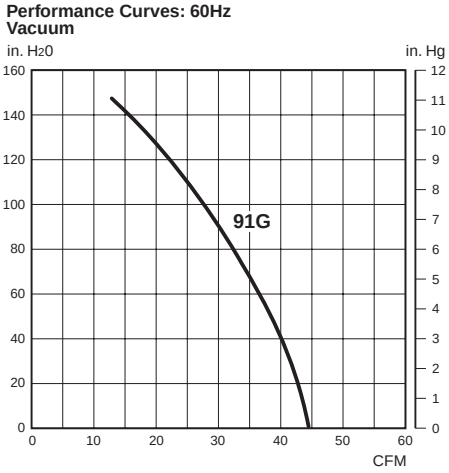


Features:

- Oil free
- Maintenance free
- Operates quietly - maximum 70 dB (A)
- Cooler running outboard bearings increase service life
- Easy to install, close-coupled construction
- Compact lightweight design
- Ideal alternative to standard rotary vane pumps and PD/rotary lobe blowers







Curve No.	Motor Type	Motor HP (Kw)	Voltage	Phase-Frequency	Rated Motor Amps	Shipping Weight lb (kg)	Sound Level
91G	TEFC	2.35	208-230/415-460	3-60Hz	7.2/3.6	35 (15.9)	68 dB(A)

NOTES:

A) Standard voltage for three phase blowers is 208-230/415-460V 3ph/ 60Hz.

B) Standard voltage for single phase blowers is 115/230/1ph/50/60Hz or 115V/1ph/60Hz or 230V/1ph/60Hz.

C) AII blowers available in 50Hz frequency and with other voltages.

D) All blowers operate at 3600 RPM.

Specifications subject to change without notice. • Please contact factory for specification updates.

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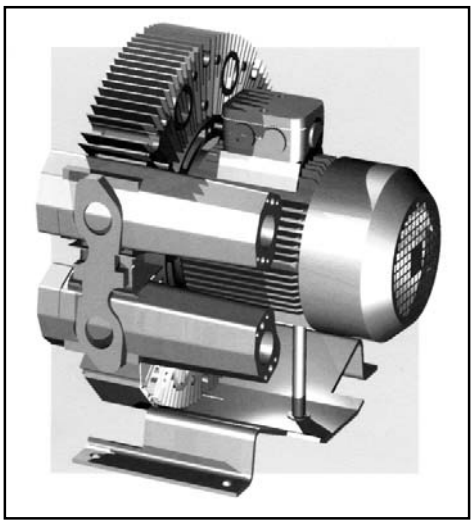
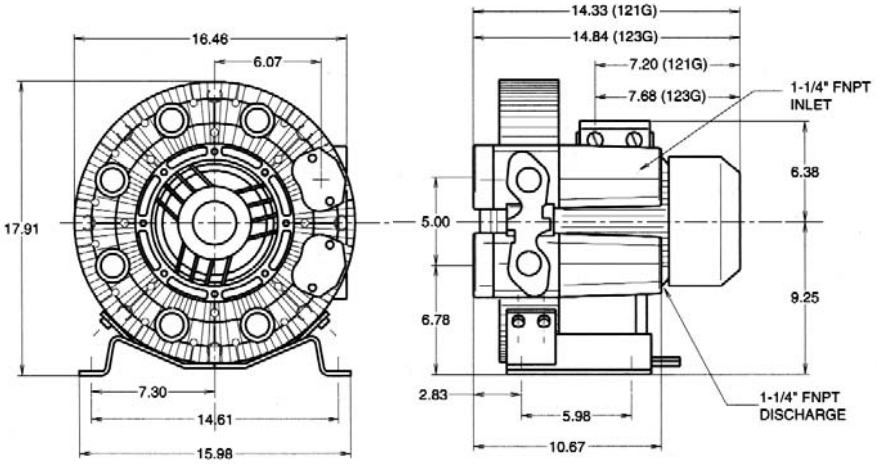
Vacuum Pumps and Generators

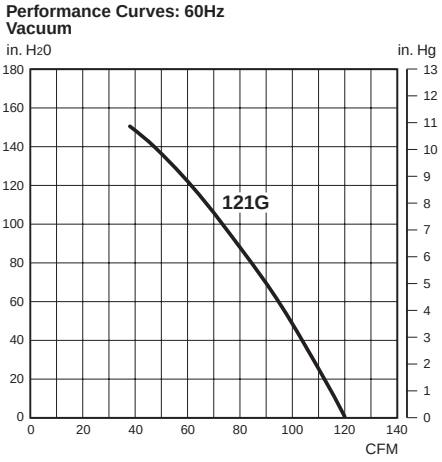
High Vacuum RB Series Regenerative Pump RB-119-11



Features:

- Oil free
- Maintenance free
- Operates quietly - maximum 70 dB (A)
- Cooler running outboard bearings increase service life
- Easy to install, close-coupled construction
- Compact lightweight design
- Ideal alternative to standard rotary vane pumps and PD/rotary lobe blowers





Curve No.	Motor Type	Motor HP (Kw)	Voltage	Phase-Frequency	Rated Motor Amps	Shipping Weight lb (kg)	Sound Level
121G	TEFC	3.5	208-230/415-460	3-60Hz	10.7/5.4	71 (32.2)	71 dB(A)

NOTES:

A) Standard voltage for three phase blowers is 208-230/415-460V 3ph/ 60Hz.

B) Standard voltage for single phase blowers is 115/230/1ph/50/60Hz or 115V/1ph/60Hz or 230V/1ph/60Hz.

C) AII blowers available in 50Hz frequency and with other voltages.

D) All blowers operate at 3600 RPM.

Specifications subject to change without notice. • Please contact factory for specification updates.

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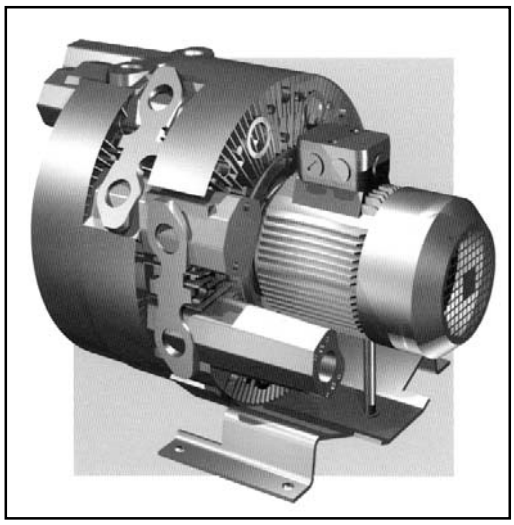
Vacuum Pumps and Generators

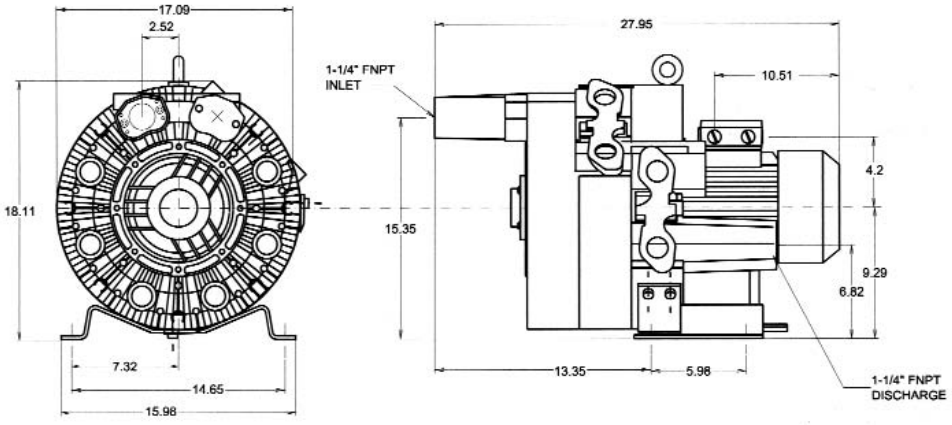
High Vacuum RB Series Regenerative Pump RB-120-20

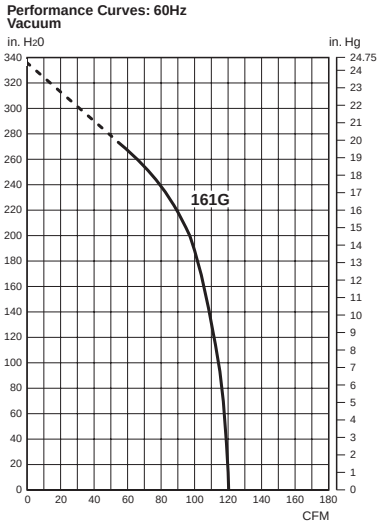
ANVER® CORPORATION



Features:

- Oil free
- Maintenance free
- Operates quietly - maximum 70 dB (A)
- Cooler running outboard bearings increase service life
- Easy to install, close-coupled construction
- Compact lightweight design
- Ideal alternative to standard rotary vane pumps and PD/rotary lobe blowers





Curve No.	Motor Type	Motor HP (Kw)	Voltage	Phase-Frequency	Rated Motor Amps	Shipping Weight lb (kg)	Sound Level
161G	TEFC	7.5	208-230/415-460	3-60Hz	20/10	104 (47.2)	72 dB(A)

NOTES:

A) Standard voltage for three phase blowers is 208-230/415-460V 3ph/ 60Hz.

B) Standard voltage for single phase blowers is 115/230/1ph/50/60Hz or 115V/1ph/60Hz or 230V/1ph/60Hz.

C) AII blowers available in 50Hz frequency and with other voltages.

D) All blowers operate at 3600 RPM.

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Vacuum Pumps and Generators

Water-Cooled Electric Vacuum Pumps

TCP Series

Manufactured by Siemens®, the ANVER TCP Series Electric Vacuum Pumps are ideal alternatives to rotary vane vacuum pumps. This revolutionary product is remarkably easy to use... just plug it in and let it run. Take a close look at the TCP's features and you'll agree that vacuum technology has taken a giant leap forward. With an operating temperature that stays below 110° F (43° C), the patented TCP cools exhausted air below the intake temperature and dries it at the same time. Cool, clean air is the only thing discharged. Condensed water returns to the internal water system, so there is no need for an external water supply. An optional Overflow/Make-Up Valve automatically adds or drains water in order to keep the appropriate level at all times.

Principle of Operation

Heat is removed from the closed loop water circuit by an air-cooled heat exchanger. A small amount of water from the closed loop water circuit is injected at the inlet of the TCP vacuum pump. Under vacuum, this stream is vaporized and, as a result, the inlet air to the pump is cooled. Utilizing a shell and tube heat exchanger, the cooled inlet air in turn cools the exhaust air stream. Water vapor in the exhaust air is condensed and returned to the separator tank.

Typical Application

- Ground Water Extraction
- Food and Pharmaceutical Packaging
- Thermoforming
- Rubber Molding
- Medical and Anesthesia Evacuation
- Pick and Place
- Vacuum Routing
- Pneumatic Vacuum Conveying
- Central Vacuum Systems

Features:

- Oil free
- Maintenance free
- Self-contained internal water circuit
- Compact, quiet, cool running
- Capacity of 20 to 180 cfm; generates 28.5 inches of Hg Vacuum
- Insensitive to dust and water vapor
- Discharges totally clean air

Item Number	HP (Kw)	Max. Vacuum in. Hg (mm Hg)	Max. Flow SCFM (l/min.)	3 Phase Voltage	Amps	Sound dB	Weight lb (kg)
TCP-20	1.4 (1.0)	28.5 (724)	20 (566)	200-275 / 345-480	5.6 / 2.8	66	95 (43)
TCP-35	2.2 (1.6)	28.5 (724)	40 (1133)	200-275 / 345-480	7.2 / 3.6	67	130 (59)
TCP-50	4.7 (3.5)	28.5 (724)	50 (1416)	200-275 / 345-480	13.2 / 6.6	72	191 (87)
TCP-80	6.8 (5.1)	28.5 (724)	80 (2266)	200-275 / 345-480	21.0 / 11.0	73	232 (105)
TCP-105	7.5 (5.6)	28.5 (724)	105 (2973)	208-230 / 415-480	22.0 / 11.0	71	396 (180)
TCP-140	10 (7.5)	28.5 (724)	140 (3964)	208-230 / 415-480	27.8 / 13.9	73	408 (185)
TCP-180	15 (11.2)	28.5 (724)	180 (5047)	208-230 / 415-480	42.0 / 21.0	73	506 (229)

Optional Accessories for TCP Series Vacuum Pumps	
TCP-OV	Overflow / Make-Up Valve for TCP Series Pumps
TCP-MV1	Makeup Valve for TCP-20 and TCP-35 Pumps
TCP-MV2	Makeup Valve for TCP-50 through TCP-180 Pumps

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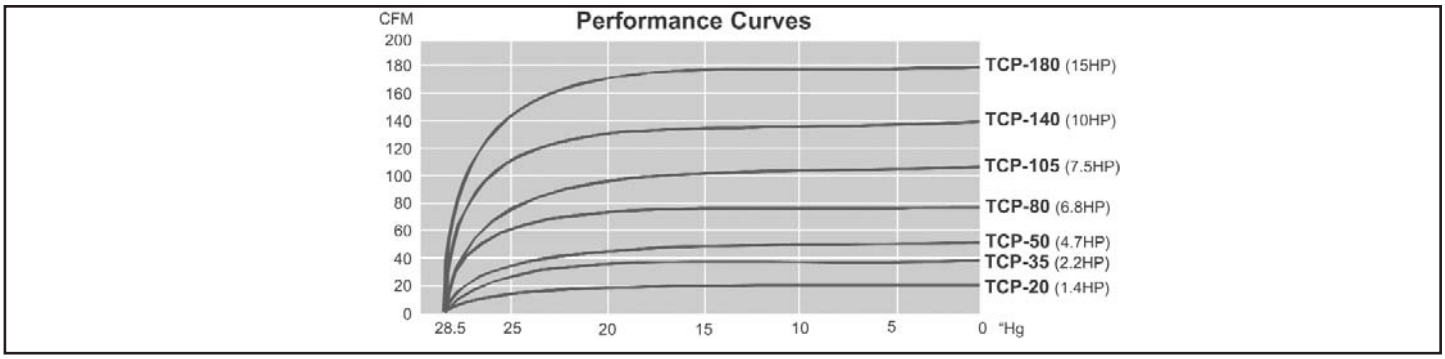
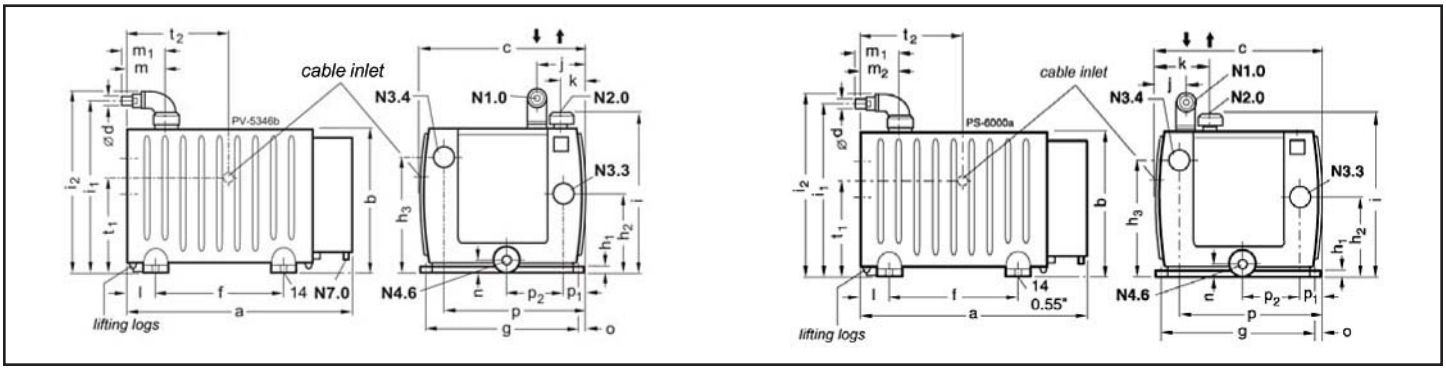
Vacuum Pumps and Generators

Water-Cooled Electric Vacuum Pumps





Item Number	a in. (mm)	b in. (mm)	c in. (mm)	f in. (mm)	g in. (mm)	h1 in. (mm)	h2 in. (mm)	h3 in. (mm)	i1 in. (mm)	i2 in. (mm)	j in. (mm)	k in. (mm)	l in. (mm)	m1 in. (mm)	m2 in. (mm)
TCP-20	23.7 (602)	15.4 (390)	17 (432)	13.6 (345)	14.6 (370)	1 (25)	8.3 (210)	10.7 (272)	18.2 (463)	19.1 (486)	4.8 (121)	2.8 (70)	3.1 (80)	4.8 (122)	4.6 (116)
TCP-35	29.2 (743)	17.2 (436)	22.5 (572)	17.7 (450)	19.5 (495)	1 (25)	8.6 (218)	10.9 (278)	20.6 (522)	21.8 (553)	7 (178)	4.3 (108)	3.3 (85)	6.4 (162)	4.7 (120)
TCP-50	30.0 (761)	17.2 (436)	22.5 (572)	17.7 (450)	19.5 (495)	1 (25)	8.6 (218)	10.9 (278)	20.6 (522)	21.8 (553)	7 (178)	4.3 (108)	3.3 (85)	6.4 (162)	4.7 (120)
TCP-80	36.4 (920)	20.1 (511)	26.9 (682)	22.4 (570)	23.0 (585)	1 (25)	7.0 (179)	9.4 (239)	23.8 (605)	25.0 (636)	4.1 (104)	6.9 (174)	3.5 (90)	8.9 (225)	6.4 (162)

Item Number	n in. (mm)	o in. (mm)	p in. (mm)	p1 in. (mm)	p2 in. (mm)	t1 in. (mm)	t2 in. (mm)	N1.0 in. (mm)	N3.3 in. (mm)	N3.4 in. (mm)	N4.6
TCP-20	1.6 (40)	1.4 (36)	15 (380)	2.5 (63)	5.8 (148)	10.0 (255)	10.8 (274)	G3/4" ø1.2 (G3/4" ø30)	S2.2 x 0.16 (S56 x 4)	S2.2 x 0.16 (S56 x 4)	G1"
TCP-35	1.4 (35)	1.5 (39)	20.2 (514)	4.3 (108)	7.1 (180)	12.4 (314)	13.5 (342)	G1-1/4" ø2 (G1-1/4" ø50)	S2.2 x 0.16 (S56 x 4)	S2.2 x 0.16 (S56 x 4)	G1"
TCP-50	1.4 (35)	1.5 (39)	20.2 (514)	4.3 (108)	13.4 (341)	14.4 (367)	16.5 (419)	G1-1/4" ø2 (G1-1/4" ø50)	S2.2 x 0.16 (S56 x 4)	S2.2 x 0.16 (S56 x 4)	G1"
TCP-80	1.4 (35)	1.9 (49)	22.0 (559)	3.2 (81)	13.4 (341)	14.4 (367)	16.5 (419)	G1-1/4" ø2 (G1-1/4" ø50)	S2.2 x 0.16 (S56 x 4)	S2.2 x 0.16 (S56 x 4)	G1"

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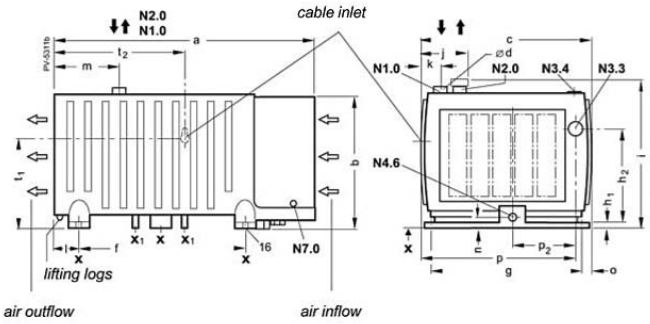
Vacuum Pumps and Generators

Water-Cooled Electric Vacuum Pumps



Item Number	a in. (mm)	b in. (mm)	c in. (mm)	f in. (mm)	g in. (mm)	h1 in. (mm)	h2 in. (mm)	i in. (mm)	j in. (mm)	k in. (mm)	l in. (mm)	m in. (mm)
TCP-105	43.3 (1100)	24.8 (630)	33.3 (845)	29.7 (755)	28.5 (725)	1.2 (30)	13.1 (335)	27.9 (710)	9.4 (240)	4.7 (120)	3.5 (90)	12.2 (310)
TCP-140	43.3 (1100)	24.8 (630)	33.3 (845)	29.7 (755)	28.5 (725)	1.2 (30)	13.1 (335)	27.9 (710)	9.4 (240)	4.7 (120)	3.5 (90)	12.2 (310)
TCP-180	43.3 (1100)	24.8 (630)	33.3 (845)	29.7 (755)	28.5 (725)	1.2 (30)	11.6 (295)	27.9 (710)	9.4 (240)	4.7 (120)	3.5 (90)	12.2 (310)

Item Number	n in. (mm)	o in. (mm)	p in. (mm)	p2 in. (mm)	t1 in. (mm)	t2 in. (mm)	N1.0 in. (mm)	N3.3 in. (mm)	N3.4 in. (mm)	N4.6	N7.0
TCP-105	1.4 (35)	2.4 (60)	29.8 (757)	13.2 (335)	15.9 (406)	21.6 (548)	2.5 (63)	S2.2 x 0.16 (S56 x 4)	S2.2 x 0.16 (S56 x 4)	G1"	G1/8"
TCP-140	1.4 (35)	2.4 (60)	29.8 (757)	13.2 (335)	15.9 (406)	21.6 (548)	2.5 (63)	S2.2 x 0.16 (S56 x 4)	S2.2 x 0.16 (S56 x 4)	G1"	G1/8"
TCP-180	1.4 (35)	2.4 (60)	29.8 (757)	13.2 (335)	15.9 (406)	21.6 (548)	2.5 (63)	S2.2 x 0.16 (S56 x 4)	S2.2 x 0.16 (S56 x 4)	G1"	G1/8"

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Vacuum Pumps and Vacuum Generators

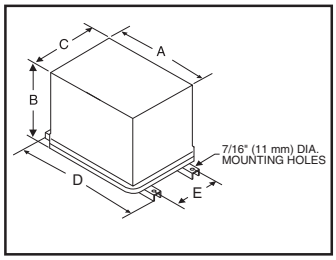
Vacuum Pump Accessories

Sound Enclosures for Vacuum Pump and Vacuum Stations

ANVER Vacuum Tube Lifting Systems use vacuum pumps and vacuum stations that already meet OSHA guidelines for noise levels. For added comfort or for use where low noise is desired as a premium, sound deadening enclosures are available in most common sizes.

As a general rule, sound enclosures reduce sound by 5-7 dB for vacuum pumps operating in the 68-76 dB range. Although this may seem vague, it is true since sound readings can vary by this amount simply by changing the location where you are standing when you are taking the sound readings.

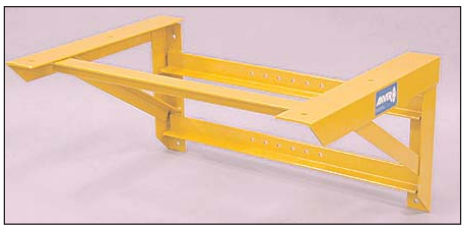
ANVER sound deadening enclosures are built from durable, melt-resistant, industrial-quality plastic. They have a steel plate base and are fully lined with sound deadening foam. It is best to obtain these enclosures when you purchase the vacuum station as they require special plumbing: the intake and exhaust pipes need to be lengthened to port correctly.



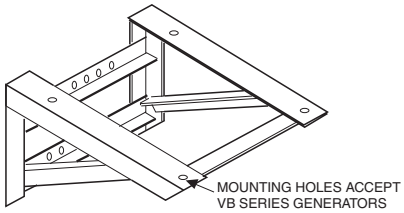
The following enclosure sizes are available from stock. Note that the pricing is for the sound enclosure when sold with the vacuum station. When sold separately, extra pipe fittings, though a small amount, must be added. Check with the factory for details.

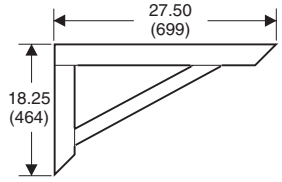
ANVER Item No.	A in. (mm)	B in. (mm)	C in. (mm)	D in. (mm)	E in. (mm)
SDE-3	33.00 (838)	24.00 (610)	21.50 (545)	N/A	N/A
SDE-4	33.00 (838)	24.00 (610)	21.50 (545)	35.00 (889)	11.40 (290)
SDE-5	33.00 (838)	24.00 (610)	21.50 (545)	35.00 (889)	12.92 (328)
SDE-6	33.00 (838)	24.00 (610)	21.50 (545)	35.00 (889)	12.92 (328)
SDE-7	33.00 (838)	24.00 (610)	21.50 (545)	35.00 (889)	12.92 (328)
SDE-8	38.75 (984)	30.00 (762)	29.25 (743)	N/A	N/A
SDE-9	33.00 (838)	24.00 (610)	21.50 (545)	35.00 (889)	14.64 (372)

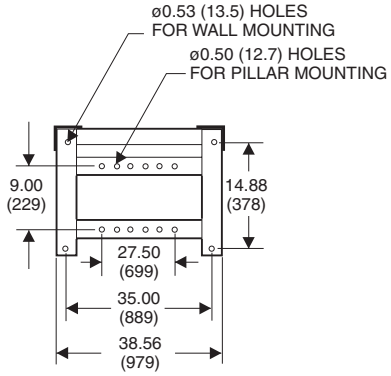
Wall Mount Bracket for Regenerative Vacuum Pumps



ANVER Item No.
ST-W1







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Vacuum Pumps and Vacuum Generators

Motor Starters and Protectors for Vacuum Pumps

ANVER Motor Starters are made for us in Germany to the highest quality standards. The motor circuit controller combines the function of:

- Short circuit protection
- Thermal overload protection
- Switching and
- Signaling

Ideal for group motor installations...

ANVER starters can eliminate the need for larger and more expensive fuse blocks and fused disconnects, or circuit breakers.

ANVER starters offer a wide application range, from 0.1 to 90 FLA in installations up to 600 V. For group motor applications, ANVER starters have up to 2000A group installation rating, one of the highest in the industry.

...or as a manual starter

ANVER starters are also excellent as manual motor starters that employ all of the same motor protection features in one compact unit. ANVER starters are available in a variety of enclosures including general purpose, watertight and explosion-proof (the most compact on the market today).

In the event of a short-circuit, the contacts are opened by magnetic, non-adjusting tripping elements in times approaching 1/1000 of a second. Because of this superb current limiting capability, ANVER starters have a short-circuit capacity of up to 42kA at 600 V.

Because each ANVER starter is individually calibrated at the factory for the smallest and largest current, very accurate thermal overload protection is also obtained. In addition, ANVER starters are Class 10 devices - they trip within 10 seconds under a locked rotor condition (6 X FLA). **Each motor starter must be ordered with an enclosure Part Number ST-ENCL).**

ANVER Item No.	Amperage Range		Phase	Maximum HP		
	Minimum	Maximum		230V	460V	575V
ST-025-040	2.50	4.00	Three	3/4	2	3
ST-040-063	4.00	6.29	Three	1-1/2	3	5
ST-063-100	6.30	9.99	Three	3	5	7-1/2
ST-100-160	10.00	15.99	Three	5	10	10
ST-160-200	16.00	19.99	Three	5	10	15
ST-200-250	20.00	25.00	Three	7-1/2	15	20
ST-ENCL	Enclosure, for Motor Starters (fits all above sizes)					

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Vacuum Pumps and Vacuum Generators

Motor Starters and Protectors for Vacuum Pumps

ANVER Pump No.	HP	Starter No.	Voltage	Amps	Port Size	Hose in. (mm)
VB3HF	3.4	ST-100-160	208-230	10	1-1/4"NPT	1-1/2 (38.1)
		ST-040-063	460	5		
		ST-040-063	575	4		
VB4HF	4.6	ST-100-160	208-230	13.6	2" NPT	2 (50.8)
		ST-063-100	460	6.8		
		ST-040-063	575	5		
VB6	7.5	ST-200-250	208-230	18.5	2" Barb	2 (50.8)
		ST-063-100	460	8.6		
		ST-063-100	575	6.8		
VB7HV	3.5	ST-100-160	208-230	12.2	1-1/4" NPT	2 (50.8)
		ST-063-100	460	6.1		
		ST-025-040	575	3.8		
VB8HF	8.5	ST-200-250	208-230	24	2" NPT	2 (50.8)
		ST-100-160	460	12		
		ST-100-160	575	9.6		
VB9HV	7.5	ST-160-200	208-230	14.9	1-1/4" NPT	2 (50.8)
		ST-063-100	460	7.5		
		ST-040-063	575	5.2		

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