BLACKMAX®

2-STAGE VACUUM PUMPS
VPBM SERIES

A1 / A2L / A2 / A3

REFRIGERANT READY*

ASHRAE STANDARD 34
Refrigerant Safety Classifications
*Residual Amounts-After Recovery

- **Variable-Speed Brushless DC Motor**
  Optimized Performance
  Quieter Operation
  Universal Voltage (100V-240V)
  Light-Weight (up to 20% lighter than competition)
- **Compact Design With Full-Size Performance**
  Ultimate Vacuum: 15 Microns
  Operates in Extreme Temperatures
  Large Built-In Vacuum Gauge
- **Auto Shut-Off Solenoid Valve**
  Prevents backflow and locks in vacuum
- **Mist-Free Oil Cap**
  Get more out of every ounce, with cleaner exhaust
- **Sparkless, Ignition-Proof Start Up**
  Ready for A2L through A3 applications
- **Convenient In-Line Hose Ports**
  1/4", 3/8", & 1/2"
- **Available Sizes**
  4 CFM, 6 CFM, 8 CFM, & 12 CFM

Fast-Vac Connection Fittings*

For all vacuum pumps with 1/4" M - 1/2" M ports
Stainless steel construction
Reduces evacuation time

BTLFV14	BTLFV38	BTLFV12
3/8" Male / 3/8" Male / 1/4" Female	3/8" Male / 3/8" Male / 3/8" Female	3/8" Male / 3/8" Male / 1/2" Female

*Sold Separately

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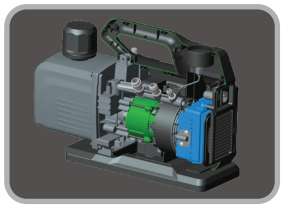
SPECIFICATIONS

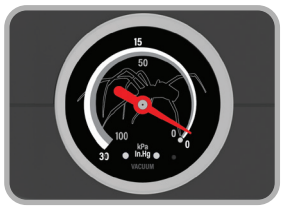
BLACKMAX Model #	VPBM4V	VPBM6V	VPBM8V	VPBM12V
Maximum Free Air Displacement (@ 3200 RPM)	4 CFM	6 CFM	8 CFM	12 CFM
Stages	2			
Ultimate Vacuum	15 Microns			
Refrigerant Class	Compatible With Residual Amounts Of A1, A2L, A2, A3 Refrigerants (Not A Recovery Machine)			
Ignition Proof Construction	Tested To UL12.12.01 Methods For Ignition Proof Requirements Per UL1963 Supplement SB			
Voltage	Universal Voltage 100V Min- 240V Max, @ 50/60Hz			
Motor Type	"BLDC" (Brushless DC Motor With Variable Speed Start Up)			
Maximum RPM	3200			
Motor Size (HP)	1/2 HP		1 HP	
Watts	300		500	
Low Energy Sealed On/Off Switch	Flashing Green LED when connected to Power; Solid Green when pump and fan Running			
Power Cord	Locking 90° IEC Type, 10 Ft (3 m) Length			
Vacuum Pump Oil Capacity (Max)	15.0 Oz (0.44 L)	14.0 Oz (0.41 L)	24.4 Oz (0.72 L)	23.0 Oz (0.68 L)
Vacuum Pump Oil Capacity (Min)	10.5 Oz (0.31 L)	9.5 Oz (0.28 L)	16.4 Oz (0.48 L)	15.0 Oz (0.44 L)
Exhaust/Oil Fill	Mist free			
Vacuum Intake Ports (In Line)	1/4", 3/8" and 1/2" SAE Male Threads			
Analog Vacuum Gauge	Units: kPa, InHg (+/- 2% Accuracy)			
Gas Ballast Valve	(Drys Out The 2nd Stage). Plated Brass			
Solenoid Valve	Normally Closed. Open When Vacuum Pump Is Energized			
Operating Temperature Range	5°F to 130°F (-15°C to 55°C)			
Storage Temperature Range	0°F to 150°F (-17.7°C to 65.5°C)			
Thermal Overload Protection	✓			
Pump Weight (W/o Pkg)	18.2 Lb (8.3 Kg)	19.1 Lb (8.7 Kg)	22.4 Lb (10.2 Kg)	23.2 Lb (10.5 Kg)
Pump Dimensions, Inches (mm)	10"H x 5.8"W x 13.8" L (254 H x 147 W x 352 L mm), 0.48 Cu.Ft.		10.5"H x "6.06" W x 15.5" L (267 x 164 x 394 mm), 0.57 Cu.Ft.	
Approvals	CE and UKCA (Tested to UL 12.12.01 Methods For Ignition Proof Requirements Per UL1963 Supplement SB) EMC (Electro-Magnetic Compatibility): EN IEC 55014-1:2021; EN IEC 55014-2:2021; EN IEC 61000-6-1:2019; EN IEC 61000-6-3:2021			

PACKAGING SPECIFICATIONS

Model #	Description	UPC	Pkg Size (H x W x L), Inches (mm)	Product + Pkg Weight, Lb (Kg)	Product Qty Per Pkg
VPBM4V	4 CFM Vacuum Pump (2-Stage)	750377120978	11.25" H x 8.5" W x 15.3" L (286 x 216 x 391 mm)	20.6 Lb (9.34 Kg)	1
VPBM6V	6 CFM Vacuum Pump (2-Stage)	750377120985		21.32 Lb (9.67 Kg)	1
VPBM8V	8 CFM Vacuum Pump (2-Stage)	750377120992	13.8" H x 8.6" W x 17.1" L (352 x 219 x 436 mm)	25.2 Lb (11.4 Kg)	1
VPBM12V	12 CFM Vacuum Pump (2-Stage)	750377121005		26.0 Lb (11.7 Kg)	1
BTLFV14	¼" Fast-Vac Fitting	750377121340	7" H x 4.5" W x 1" L (178 x 114 x 25 mm)	8 Ozs (227g)	1
BTLFV38	3/8" Fast-Vac Fitting	750377121357		8 Ozs (227g)	1
BTLFV12	½" Fast-Vac Fitting	750377121333		8 Ozs (227g)	1
BTLFVX14	Rep. O-Rings & Gaskets (1/4" Fast-Vac)	750377121906	2" H x 4" W x 1/2" L (51 x 102 x 13 mm)	1 Oz. (28g)	2 Gaskets, 4 O-Rings
BTLFVX3812	Rep. O-Rings & Gasket (3/8"-1/2" Fast-Vac)	750377121913		1 Oz. (28g)	2 Gaskets, 4 O-Rings
BTLFVX38CAP	Rep. Cap & Tether (Fast-Vac)	750377121944		1 Oz. (28g)	2 Caps



Efficient, Quiet, Variable Speed DC Motor

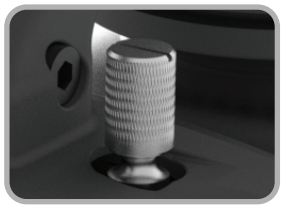


Large Vacuum Gauge - For Quick Reference

Tall Sight Glass - View Oil Level & Purity

For Use In Temperature Extremes 5F To 130F (-15C To 55C)

Ignition-Proof On/Off Switch & Thermal Overload Protection



Gas Ballast Valve - For Deeper Vacuum