

# VACUUM PUMPS

**LIGHT WEIGHT DESIGN  
HEAVY WEIGHT PERFORMANCE**



# Pro-Set®

## PRO-SET® VACUUM PUMPS

There are good pumps, better pumps, then Pro-Set Vacuum Pumps! Innovative changes in vacuum cartridge design, materials, lubrication and cooling enable Pro-Set vacuum pumps to achieve incredibly deep vacuum performance ratings that are unmatched in the industry. Pro-Set has the product line breadth and depth to suit just about any HVAC/R job or fit any job site requirement you might have!

Pro-Set vacuum pumps are offered in a variety of single and dual stage models with numerous voltage, horsepower and free air displacement (CFM) options, while contained in either standard size or compact size housings to suit your work environment. All Pro-Set vacuum pumps boast the same high quality, high value features engineered into all of our products, providing years of reliable performance while servicing air conditioning and refrigeration equipment.

## PRO-SET® VACUUM PUMP KEY FEATURES

- All models are for use with class A1 (non-toxic, non-flammable), class A2 (non-toxic, low-flammable) refrigerants
- Air cooled, thermally protected motors encased in a durable aluminum housing
- Oil filled rotary vacuum pump cartridge construction
- Large oil-fill port with proprietary, mist-free exhaust cap
- Easily accessible oil drain port
- Large oil sight glass
- Multiple SAE and ACME intake fittings with check valve
- On/Off power switch
- Rubber lined handle, skid resistant rubber feet
- Gas ballast valve

**SMALL SIZE,  
BIG  
PERFORMANCE**



### PRO-SET® DUAL STAGE VACUUM PUMPS

Pro-Set dual stage vacuum pumps are your premium solution for obtaining the deepest ultimate vacuum (10 to 25 microns, depending on model), the greatest range of horsepower (1/3 to 1) and free air displacement (from 2 CFM to 12 CFM) within the Pro-Set line. These pumps also include a gas ballast valve which speeds attainment of deep vacuum and are offered in both single and dual voltage models. All models are for use with Class A1 (non-toxic, non-flammable) and A2 (non-toxic, low flammable) refrigerants. The VPS Series with its sealed components is also for use with Class A3 (non-toxic, explosive) refrigerants and ammonia systems.

### PRO-SET® DUAL OR SINGLE STAGE COMPACT VACUUM PUMPS

The Pro-Set line of dual or single stage compact vacuum pumps provide an ultimate vacuum ranging from 15 to 100 microns, horsepower ratings from 1/5 to 1/4, and free air displacement from 2 CFM to 4 CFM. These pumps offer dedicated 115VAC or 220-240VAC operation and are hardwired with either NEMA 115VAC or 220-240VAC plugs. Best of all, these pumps feature some the smallest, lightest and most compact aluminum housings in the industry.

### PRO-SET® SINGLE STAGE VACUUM PUMPS

Pro-Set single stage standard size vacuum pumps provide a deep vacuum (down to 50 microns), with horsepower ratings from 1/3 to 1, and free air displacement from 2 CFM to 12 CFM. These pumps include a gas ballast valve and are offered in both single and dual voltage and have a voltage selector switch.



# Pro-Set® DUAL STAGE VACUUM PUMPS

Pro-Set® dual stage vacuum pumps are your premium solution for obtaining the deepest ultimate vacuum (10 or 25 microns, depending on model) and provide the greatest range of horsepower (1/3 to 1) and free air displacement (from 2 CFM to 12 CFM) within the Pro-Set line. These pumps also include a gas ballast valve which speeds attainment of deep vacuum and are offered in both single and dual voltage models. All models are for use with Class A1 (non-toxic, non-flammable) and A2 (non-toxic, flammable) refrigerants. Model VPS6DU with its sealed components is also for use with Class A3 (non-toxic, explosive) refrigerants and ammonia systems.

Vacuum Pumps

Model	VP2D	VP2DE	VP4D	VP4DE	VP6D	VP6DE	VPS6DE	VPS6DU
Stage	2							
Ultimate Vacuum	10 Microns							
Refrigerant Class	A1, A2						A1, A2, A3	
Dimensions (Inches)	12.2" x 5" x 9.6"		13.1" x 5.5" x 10"					
Weight	17.7 lb (8.0 kg)		22.1 lb (10.0 kg)			22.5 lb (10.2 kg)		
Free Air Displacement	2 CFM @ 60Hz (48 l/m @ 50Hz)		4 CFM @ 60Hz (96 l/m @ 50Hz)			6 CFM @ 60 Hz (144 l/m @ 50 Hz)		
Motor Size (HP), RPM @ 50/60Hz	1/3 HP (1440, 1720 RPM)		1/2 HP (2880, 3440 RPM)					
Voltage	110-120V Or 220-240V @ 50/60Hz	220-240V, 50 Hz	110-120V Or 220-240V @ 50/60Hz	220-240V, 50 Hz	110-120V Or 220-240V @ 50/60Hz	220-240V, 50 Hz	220-240V, 50Hz	115V 60Hz
Power Cord Connection to Pump	Universal IEC Socket & Voltage Selector Switch	Universal IEC Socket	Universal IEC Socket & Voltage Selector Switch	Universal IEC Socket	Universal IEC Socket & Voltage Selector Switch	Universal IEC Socket	Hard Wired Schuko Plug	Hard Wired
On/Off Power Switch	Yes						Yes (Ignition-proof sealed starting components)	
Operating Temperature Range	32°F to 125°F (0°C to 52°C)							
Pro-Set® Vacuum Pump Oil Capacity	11.5 oz (330 ml)		15.5 oz (450 ml)			16 oz (470 ml)		
Gas Ballast Valve	Yes							
Intake Fittings	SAE: 1/4", 3/8", ACME: 1/2"						SAE 1/4", 3/8", 1/2"	
Warranty (Years)	2	1	2	1	2	1		

**Legend:** VP= Vacuum Pump, VPS = Ignition Proof VP; **2,4,6,8,10,12** = CFM; **D** = Dual stage; **A or E** = 220-240VAC 50 Hz; **J** = 100VAC 50/60 Hz; **U**=115VAC 60Hz, **No Consonant After "D"** =Dual Voltage 110-120VAC or 220-240VAC 50/60Hz. **Refrigerant Classes: A1** (non-toxic, non-flammable); **A2** (non-toxic, flammable); **A3** (non-toxic, explosive)

For more information visit [www.cpsproducts.com](http://www.cpsproducts.com)



### PRO-SET® PREMIUM VACUUM PUMP OIL

Pro-Set Premium Vacuum Pump Oil is an extremely high quality, severely hydro-treated vacuum pump oil. The oil is compatible for use in pumps made by most manufacturers. Pro-Set Premium Vacuum Pump Oil should always be clean and free of contaminants such as moisture, acids, vapors, dirt etc. It is strongly recommended that the vacuum pump oil be changed after each use to improve service and the life of the pump.

VPO12

VPOQ12

VPO66

Model	VP8D	VP8DE	VP10D	VP10DE	VP12D	VP12DE	VPS12DE	VPS12DU
Stage	2							
Ultimate Vacuum	25 Microns							
Refrigerant Class	A1, A2							
Dimensions (Inches)	14.9" x 5.7" x 10.6"							
Weight	29.8 lb (13.5 kg)		30.3 lb (13.7 kg)			30.9 lb (14.0 kg)		
Free Air Displacement	8 CFM @ 60 Hz (192 l/m @ 50 Hz)		10 CFM @ 60Hz (240 l/m @ 50Hz)			12 CFM @ 60Hz (288 l/m @ 50Hz)		
Motor Size (HP), RPM @ 50/60Hz	2/3 HP (2880, 3440 RPM)		3/4 HP (2880, 3440 RPM)			1 HP (2880, 3440 RPM)		
Voltage	110-120V Or 220-240V @ 50/60Hz	220-240V, 50 Hz	110-120V Or 220-240V @ 50/60Hz	220-240V, 50 Hz	110-120V Or 220-240V @ 50/60Hz	220-240V, 50 Hz		115V 60Hz
Power Cord Connection to Pump	Universal IEC Socket, Voltage Selector Switch	Universal IEC Socket	Universal IEC Socket, Voltage Selector Switch	Universal IEC Socket	Universal IEC Socket, Voltage Selector Switch	Universal IEC Socket	Hard Wired Schuko Plug	Hard wired
On/Off Power Switch	Yes						Yes (Ignition-proof sealed starting components)	
Operating Temperature Range	32°F to 125°F (0°C to 52°C)							
Pro-Set® Vacuum Pump Oil Capacity	29 oz (860 ml)		28 oz (830 ml)			27 oz (800 ml)		
Gas Ballast Valve	Yes							
Intake Fittings	SAE 1/4", 3/8", 1/2"							
Warranty (Years)	2	1	2	1	2	1		





# Pro-Set<sup>®</sup> DUAL OR SINGLE STAGE COMPACT VACUUM PUMPS

The Pro-Set<sup>®</sup> line of dual or single stage, compact vacuum pumps provide an ultimate vacuum ranging from 15 to 100 microns, horsepower ratings from 1/5 to 1/4, and free air displacement from 2 CFM to 4 CFM. These pumps offer dedicated 115VAC or 220-240VAC operation and are hardwired with either NEMA 115VAC or 220-240VAC plugs. Best of all, these pumps feature some the smallest, lightest, most compact aluminum housings in the industry.

Model	VPC2DU	VPC2DE	VPC2SU	VPC2SE	VPC4SU	VPC4SE
Stage	2			1		
Ultimate Vacuum	15 Microns			100 Microns		
Refrigerant Class	A1, A2					
Dimensions (Inches)	11.3" x 4.5" x 8.0"		9.1" x 4.5" x 8.0"		11.3" x 4.5" x 8.0"	
Weight	12.1 lb (5.5 kg)		9.3 lb (4.2 kg)		11.0 lb (5 kg)	
Free Air Displacement	2 CFM @ 60Hz (48 l/m @ 50Hz)			4 CFM @ 60 Hz (96 l/m @ 50 Hz)		
Motor Size (HP) RPM @ 50/60Hz	1/4 HP (2880, 3440 RPM)		1/5 HP (2880, 3440 RPM)		1/4 HP (2880, 3440 RPM)	
Voltage	115V @ 60 Hz	220-240V @ 50 Hz	115V @ 60 Hz	220-240V @ 50 Hz	115V @ 60 Hz	220-240V @ 50 Hz
Power Cord Connection to Pump (& Plug Type)	Hardwired, Nema 115V Plug	Universal IEC, Schuko Plug	Hardwired, Nema 115V Plug	Universal IEC, Schuko Plug	Hardwired, Nema 115V Plug	Universal IEC, Schuko Plug
On/Off Power Switch	Yes					
Operating Temperature Range	32°F to 125°F (0°C to 52°C)					
Oil Capacity	9 oz (250 ml)	9 oz (250 ml)		10 oz (300 ml)		
Gas Ballast	No					
Intake Fittings	SAE: 1/4", ACME: 1/2"					
Warranty (Years)	1					

**Legend:** VP= Vacuum Pump; C = Compact; 2,4 = CFM; E = 220-240VAC 50 Hz; S = Single Stage; U = 115VAC, 50/60 Hz.  
**Refrigerant Classes:** A1 (non-toxic, non-flammable); A2 (non-toxic, flammable)



**VPAS4 ANTI-SIPHON VALVE KIT**  
1/4" SAE female knurl nut



**VPAS8 ANTI-SIPHON VALVE KIT**  
3/8" SAE female knurl nut



**VPASU ANTI-SIPHON VALVE KIT**  
1/4" SAE, 3/8" SAE, 1/2"-20 UNF female knurl nut

## ANTI-SIPHON VALVE KITS

The CPS anti-siphon valve is an essential accessory to any vacuum pump application. The anti-siphon valve prevents the cross-contamination of vacuum pump oil and the compressor oil in the A/C or refrigeration system being serviced. Mixing of vacuum pump oil and compressor oil can cause premature failure in the A/C or refrigeration system. CPS makes three models that fit all CPS and other brands of vacuum pumps.

For more information visit [www.cpsproducts.com](http://www.cpsproducts.com)



# Pro-Set® SINGLE STAGE VACUUM PUMPS

Pro-Set® single stage, standard size vacuum pumps provide a deep vacuum (down to 50 microns), with horsepower ratings from 1/3 to 1, and free air displacement from 2 CFM to 12 CFM. These pumps include a gas ballast valve and are offered in both single and dual voltage and have a voltage selector switch.

Model	VP2S	VP4S	VP6S
Stage	1		
Ultimate Vacuum	50 Microns		
Refrigerant Class	A1, A2		
Dimensions (Inches)	12.2" x 5" x 9.6"		13.1" x 5.5" x 10"
Weight	13.7 lb (6.2 kg)	15.0 lb (6.8 kg)	18.3 lb (8.3 kg)
Free Air Displacement	2 CFM @ 60Hz (48 l/m @ 50Hz)	4 CFM @ 60Hz (96 l/m @ 50Hz)	6 CFM @ 60 Hz (144 l/m @ 50 Hz)
Motor Size (HP), RPM @ 50/60Hz	1/4 HP (1440 1720 RPM)	1/3 (HP) 2880/3440	1/2 HP (2880, 3440 RPM)
Voltage	Dual (110-120V Or 220-240V @ 50/60Hz)		
Power Cord Connection to Pump (& Plug Type)	Universal IEC Socket, Voltage Selector Switch, Nema 15 Plug		
On/Off Power Switch	Yes		
Operating Temperature Range	32°F to 125°F (0°C to 52°C)		
Oil Capacity	16 oz (470 ml)	19 oz (540 ml)	
Gas Ballast	No		
Intake Fittings	SAE: 1/4" & 3/8", ACME: 1/2"		
Warranty (Years)	2		

**Legend:** VP= Vacuum Pump; 2,4,6 = CFM; S = Single Stage; **Dual Voltage:** 110-120VAC or 220-240VAC 50/60 Hz.  
**Refrigerant Classes:** A1 (non-toxic, non-flammable); A2 (non-toxic, flammable)



### AVCVAC VACUUM PUMP CAP KIT

Vacuum pump cap kit with chains on one common ring



# Tech-Set™

## SINGLE STAGE, COMPACT VACUUM PUMPS

The Tech-Set line of vacuum pumps are designed for the working HVAC technician, and feature a core, essential line of good value vacuum pumps that provide affordable, reliable and dependable service. All models are single stage and feature small, lightweight and compact housings with dedicated 115VAC or 220VAC IEC plug configurations. Models range from 1.5, 3 or 5 CFM, 1/5 to 1/3 horsepower, and ultimate vacuum ratings from 50 to 100 microns.



Model	TAVPC48SU	TAVPC48SE	TAVPC96SU	TAVPC96SE	TAVP144SU	TAVP144SE
Stage	1					
Ultimate Vacuum	100 Microns			50 Microns		
Refrigerant Class	A1, A2					
Dimensions (Inches)	8.75" x 4.1" x 9.25"		11.25" x 4.1" x 9.25"		12.62" x 4.8" x 9.62"	
Weight	9.5 lb (4.3 kg)		11 lb (5.0 kg)		14.8 lb (6.7 kg)	
Free Air Displacement	1.5 CFM @ 60 Hz (48 l/m @ 50 Hz)		3 CFM @ 60 Hz (96 l/m @ 50 Hz)		5 CFM @ 60 Hz (144 l/m @ 50 Hz)	
Motor Size (HP) RPM @ 50/60Hz	1/5 HP (2880, 3440 RPM)		1/4 HP (2880, 3440 RPM)		1/3 HP (2880, 3440 RPM)	
Voltage	115V @ 50/60 Hz	220-240V @ 50 Hz	115V @ 50/60 Hz	220-240V @ 50 Hz	115V @ 50/60 Hz	220-240V @ 50 Hz
Power Cord Connection to Pump (& Plug Type)	Hardwired, Nema 115V Plug	Universal IEC, Schuko Plug	Hardwired, Nema 115V Plug	Universal IEC, Schuko Plug	Hardwired, Nema 115V Plug	Universal IEC, Schuko Plug
On/Off Power Switch	Yes					
Operating Temperature Range	32°F to 125°F (0°C to 52°C)					
Oil Capacity	9 oz (250 ml)			14 oz (400 ml)		
Gas Ballast	No					
Intake Fittings	SAE: 1/4", ACME: 1/2"					
Warranty (Years)	1					

**Legend:** **T** = Tech-Set; **VP** = Vacuum Pump; **C** = Compact; 48, 96 or 144 = l/m; **E** = 220-240VAC 50 Hz; **S** = Single Stage; **U** = 115VAC, 50/60 Hz  
Refrigerant Classes: **A1** (non-toxic, non-flammable); **A2** (non-toxic, flammable)

### PORT CAPS

Oil mist preventer exhaust port.

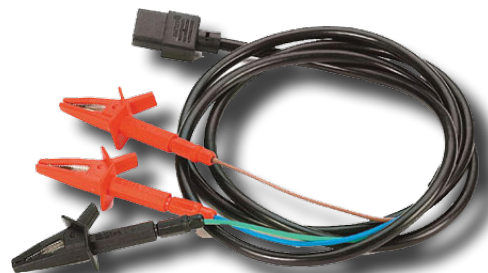
**VPXOMP** for 2-6 CFM Models

**VPXOMP2** for 8-12 CFM Models



### VPXJ220 JUMPER CORD KIT

220 VAC jumper power cord for locations where 110 voltage is not available.



**VPXJ220**