

The background of the advertisement is a close-up photograph of a Yellow Jacket SUPEREVAC vacuum pump system. The pump is a large, white, rectangular unit with a silver-colored metal handle and a pressure gauge on its side. It is connected to a network of copper and aluminum refrigerant lines. A yellow and blue digital vacuum gauge is being held by a hand, displaying a reading on its screen. The gauge has a yellow face with blue text and a blue handle. The overall scene is set in a workshop or service area, with various tools and equipment visible in the background.

YELLOW JACKET®
SUPEREVAC™ Systems –
faster calls,
fewer call backs

Manufactured in U.S.A.

NEW
Vacuum Pump page 16

NEW
Digital Vacuum Gauge
page 21

YELLOW JACKET® SUPEREVAC™ Systems Approach – protect your profits, reputation and customer's system

Competition, increasing refrigerant cost and legislation, higher customer expectations...all that and more combine to squeeze your profits.

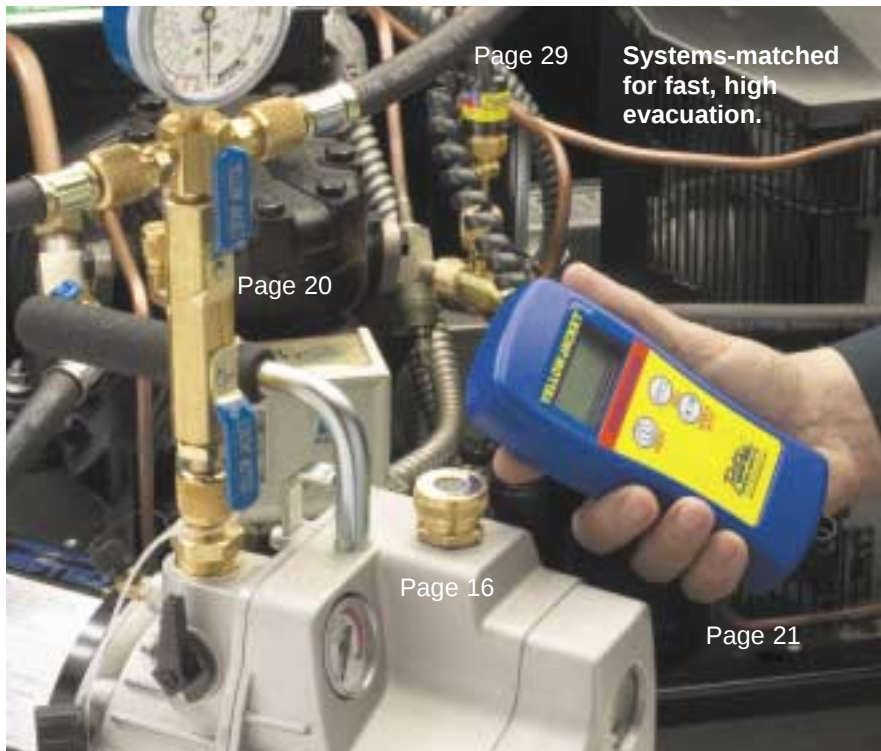
Plus, three more situations are now pressuring you to reconsider how to evacuate systems.

- Today's higher efficiency systems are more sensitive to damage from contaminants.
- Newer oils require deeper vacuum for contaminant removal.
- Triple evacuation and purging are considered venting.

With so many challenges to the success of your business, it's simply not enough to work hard. It's also a matter of working smarter by taking advantage of every advanced technology such as the **SuperEvac™ System**, that offer service techniques like **fast, low vacuum**.

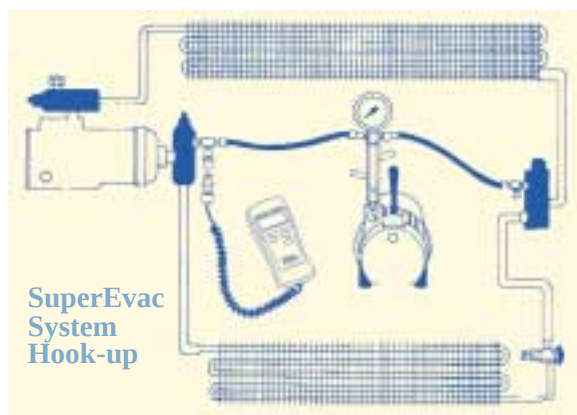
The SuperEvac System pulls a fast vacuum to 15 microns and better. **Fast** gives you more time for more calls. And 15 microns and better is **deep** enough to get rid of contaminants that could cause system failure, customer dissatisfaction, and no-charge rework.

The heart of the system is the new, improved YELLOW JACKET pump. But not even the best pump can give



you the most cost effective and efficient evacuation unless properly used.

Proper use begins with the systems approach with pump, manifold, hoses, valves, and more – all engineered and matched for fast, unrestricted evacuation.



Pump Design Details Matter

Attention to details makes a YELLOW JACKET Vacuum Pump your best long term investment:

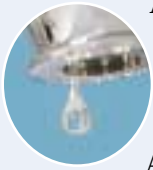
- Large intake fitting to maximize flow and decrease vacuum time.
- Filter screen keeps large particles from entering the pump mechanism.
- Isolation valve to allow oil change during lengthy evacuations without losing vacuum.

- Internal check valve to prevent oil from backing up into the system during a power failure.
- Hardened drive shaft and large bearing contact areas extends pump service life.
- Precisely machined and fitted parts assembled with running clearances of less than .001" to generate a deep vacuum.

- Specially designed high-torque motor for starting when the pump is cold, or when an extension cord is used.

As the only manufacturer that completely tests and runs in every pump, Ritchie Engineering ships with the confidence that each pump will meet your expectations.

How and why one small drop dampens your profits.



A drop of moisture can hurt your profits and reputation. And with the increased moisture sensitivity of modern A/C and refrigeration systems, proper evacuation is essential. Most system complaints can be attributed to moisture. Here's how and why.

During new system set-up, all protective caps are removed allowing moisture and air into the system components.

If air – a non-condensable – remains in the system, it collects on the high side reducing system efficiency. This causes a rise in head pressure. The discharge valve gets hotter than normal and organic solids form causing compressor failure.

Moisture in the system can form ice

which closes off openings in expansion valves and cap tubes, and prevents adequate cooling.

Ultimately moisture and air combined with refrigerants containing chlorine can produce acids and sludge which could cause in-warranty failures.

During service and parts replacement, the same contaminants get in again, and you could be called back for repairs by a dissatisfied customer.

Moisture and air can even enter through system leaks. And as the moisture in the air increases, so does the amount of contamination. The higher the humidity, the bigger your problem.

A vacuum pump "pulls" air and moisture out of the system before the system is damaged. The deeper and

more complete the vacuum, the more moisture is removed. That's why the SuperEvac™ pump is specifically engineered for deep vacuums of 15 microns and better.

What is a micron as a unit of measurement for a vacuum?

When referring to microns as a unit of measurement for vacuum, the reference is to microns of mercury in the same way as you would refer to atmospheric pressure in inches of mercury on a barometer. One inch Hg is about 25,000 microns.

To help clarify terminology, remember that the deeper the vacuum, the more complete the vacuum; and the more complete the vacuum, the lower the number of microns.

Refer to www.yellowjacket.com for other technical articles.

Frequently Asked Questions

1. How can I select the right pump cfm?

The following guidelines are for domestic through commercial applications.

System size (tons)	Pump cfm
1-10	1.5
10-15	2.0
15-30	4.0
30-45	6.0
45-60	8.0
60 and above	11.0

2. How much of a vacuum should I pull?

A properly evacuated system is at 2500 microns or less. This is 1/10 of one inch and impossible to detect without an electronic vacuum gauge (see pages 21-22). For most refrigeration systems, ASHRAE recommends pulling vacuum to 1000 microns or less. Most system manufacturers recommend pulling to an even lower number of microns between 300 and 500.

3. Do I connect an electronic vacuum gauge to the system or pump?

To monitor evacuation progress, connect it *to the system* with a vacuum/charge valve (see page 20).

4. Why does the gauge micron reading rise after the system is isolated from the vacuum pump?

This indicates that water molecules are still detaching from the system interior surfaces. The rate of rise indicates the level of system contamination and if evacuation should continue.

5. Does extension cord length affect performance?

Increased length can decrease voltage, so use this as a voltage guide for selecting wire gauge.

Distance	Wire Gauge
25'	16
50'	14
100'	12

6. How can I speed evacuation?

A. Use clean vacuum pump oil (see page 18). Milky oil is water saturated and limits pump efficiency.

B. Remove valve cores from both high and low fittings with a vacuum/charge valve tool (see page 20) to reduce time through this orifice by at least 20%.



C. Evacuate both high and low sides at the same time. Use short, 3/8" diameter and larger hoses.

D. SuperEvac Systems (see page 20) can reduce evacuation time by over 50-60%. SuperEvac pumps are rated at 15 microns (or less) to pull a vacuum quickly.

E. Use a heat gun (see page 19).

YELLOW JACKET® 4, 6, 8, and 11 CFM SUPEREVAC™ VACUUM PUMPS – designed inside and out for reliable performance day after day

FULL QUALITY CHECK

Each YELLOW JACKET pump is thoroughly “run in” and tested to insure that it meets or exceeds our quality specifications – and our customers’ expectations.

EXCLUSIVE

Built-in vacuum indicator gauge –

Every YELLOW JACKET pump features an exclusive built-in indicator gauge to monitor the evacuation progress down to the green (29"-30") range. If the reading stays in the mid range, there is either high contamination or a large leak in the system.



Gross leak

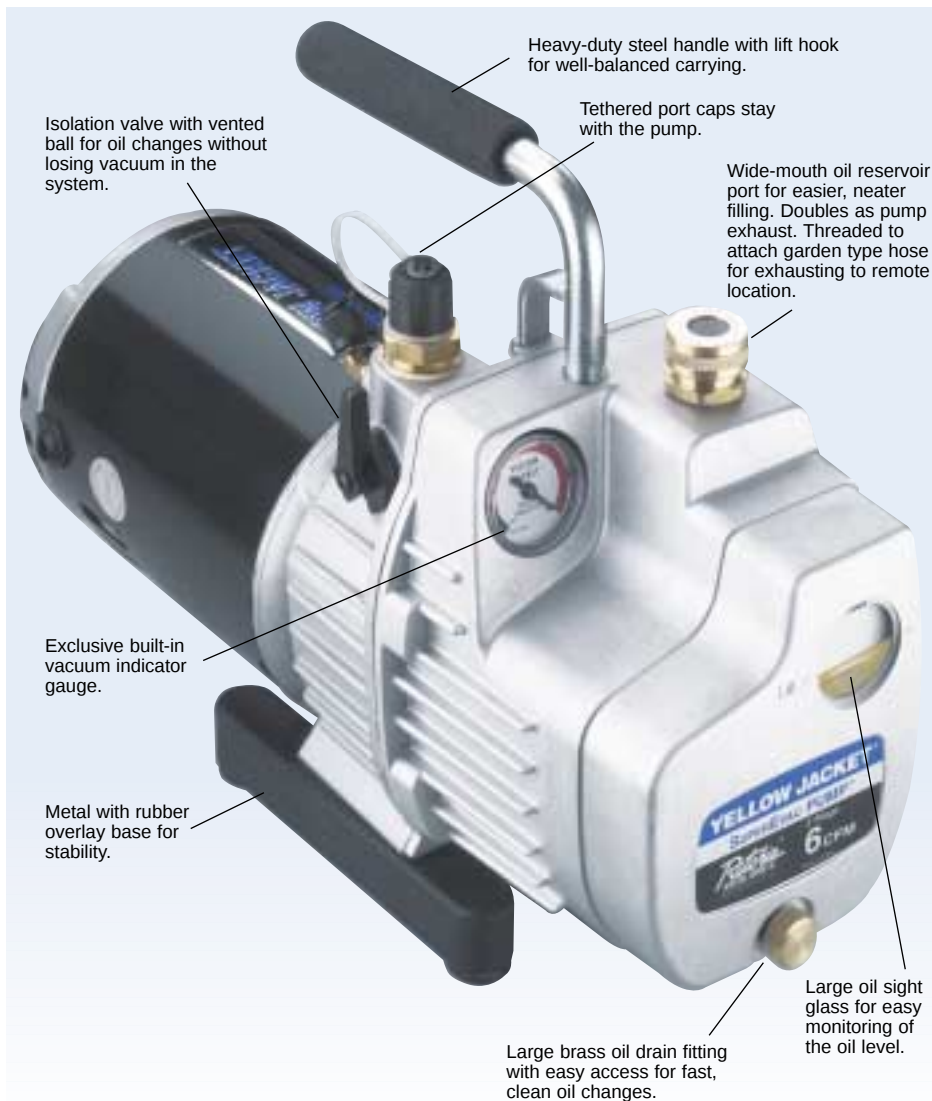
If you think there is excessive moisture, blow out the AC&R system with dry nitrogen before connecting the vacuum pump to the system wherever possible. This reduces the amount of contaminants that must be “pulled” into the pump and increases evacuation speed.

Use a nitrogen regulator valve with pressure limited to 150 psi, and a frangible disc device set at 175 psig.



Turn on electronic gauge.

When the indicator reaches the green (29"-30") range, the electronic micron gauge must be used for more precise readings. See pages 21-22.



INSIDE

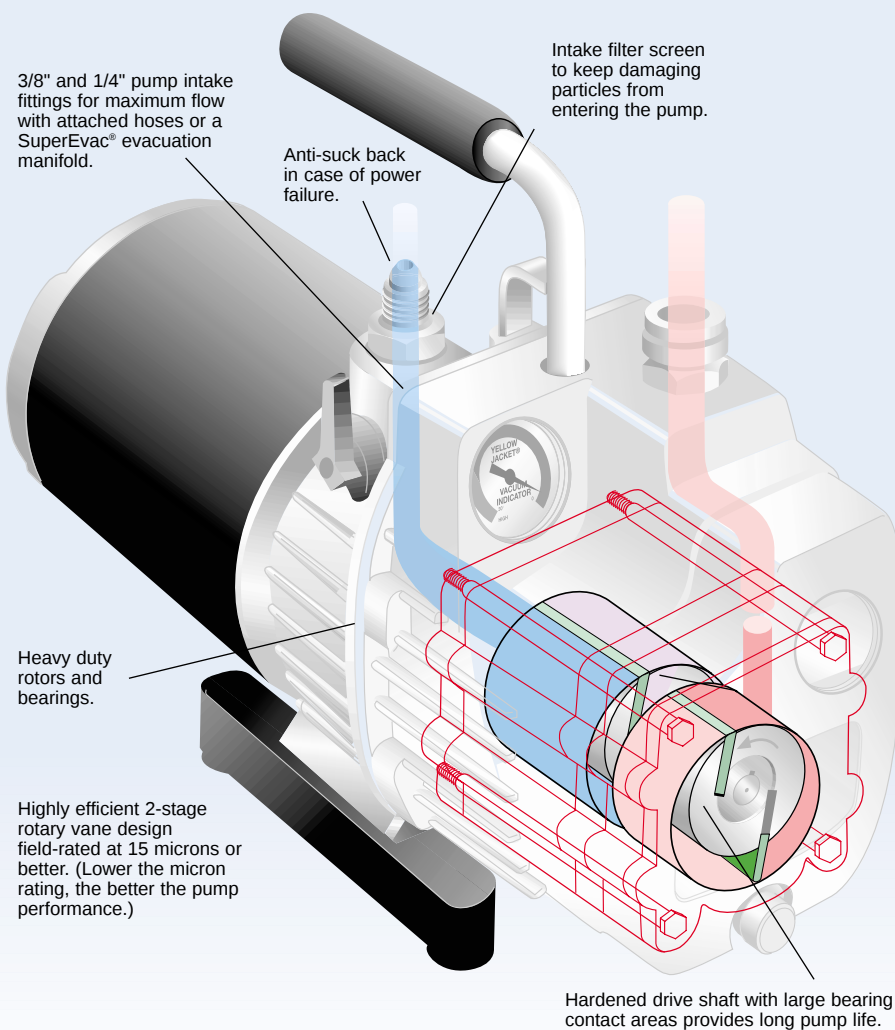
- **Internal intake check valve** prevents oil back-up into the system during a power failure.
- **Precisely machined and assembled** parts with tight clearances for a deep vacuum.
- **Hardened cap screws** keep the pumping mechanism tight.

OUTSIDE

- **Rugged metal construction** for long-lasting durability in the field, with no flimsy plastic parts that are easily damaged.
- **Updated, lighter housing** with larger fins for cooler running.

OILING SYSTEM

- **Large oil reservoir** helps reduce operating temperature and dilute corrosive contaminants.
- **Gas ballast valve** keeps oil cleaner, longer during evacuation of wet systems.
- **YELLOW JACKET mineral-based vacuum pump oil** is recommended whether working with traditional or new alternative refrigerants, regardless of the oil used in the system.



For increased efficiency, the first stage exhausts into the second stage similar to using two single stage pumps connected together.

- Pump and first stage intake
- First stage compression
- Second stage intake
- Second stage compression
- Exhaust to atmosphere

DRIVE TRAIN

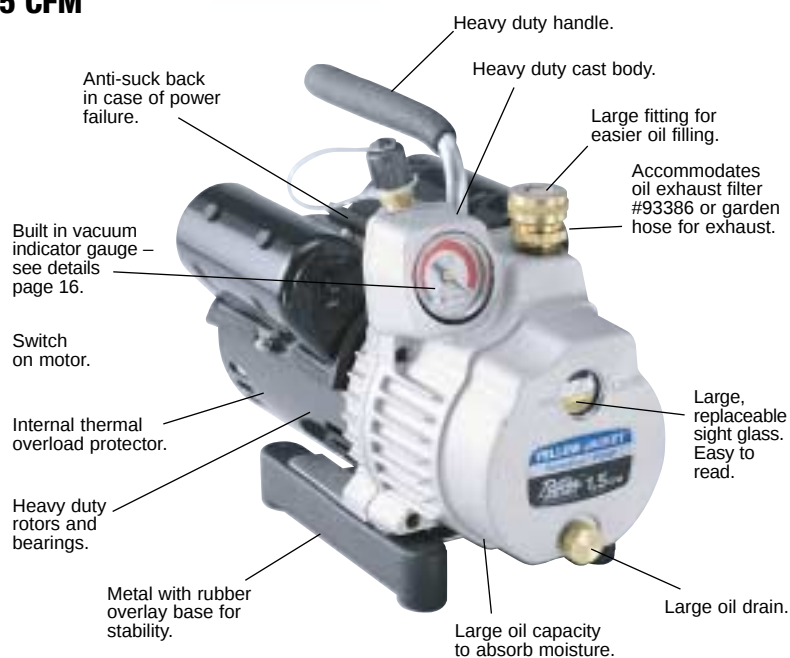
- **Heavy-duty, high torque 1/2 hp, 1725 rpm motor** assures cold weather starting.
- **Advanced engineering** for quieter operation.

YELLOW JACKET® SuperEvac™ PUMP 1.5 CFM

A more compact 2-stage 1.5 cfm vacuum pump for the smaller jobs such as appliance and small residential. Designed and built to the same quality specifications as the larger YELLOW JACKET pumps.

- Evacuate quickly to ultimate vacuum of 15 microns.
- Heavy duty construction includes all metal parts and a rugged 1/6 hp motor. Capacitor start.
- Compact size for easy handling.
- Offset vanes maximize capacity.
- Fully tested, inspected and run-in.
- Supplied with 3/8", 1/4" flare and 1/2" Acme intake fittings

Complete specifications on page 18.



YELLOW JACKET® SUPEREVAC PUMPS SPECIFICATIONS (4-11 CFM)

Domestic	Model 93540	Model 93560	Model 93580	Model 93590
Free air displacement	4.0 cfm	6.0 cfm	8.0 cfm	11.0 cfm
Number of stages	2 stage rotary vane	2 stage rotary vane	2 stage rotary vane	2 stage rotary vane
Field blankoff	15 microns	15 microns	15 microns	15 microns
Intake	1/4" and 3/8" Male flare	1/4" and 3/8" Male flare	1/4" and 1/2" Male flare	1/4" and 1/2" Male flare
Motor	1/2 hp - 1725 rpm	1/2 hp - 1725 rpm	1/2 hp - 1725 rpm	1/2 hp - 1725 rpm
Internal capacitor thermal overload	Temperature rise 40° C	Temperature rise 40° C	Temperature rise 40° C	Temperature rise 40° C
Voltage (single phase)	115 Volt - 60 cycle	115 Volt - 60 cycle	115 Volt - 60 cycle	115 Volt - 60 cycle
Power cord	8' - motor mounted switch	8' - motor mounted switch	8' - motor mounted switch	8' - motor mounted switch
Oil capacity	36 oz.	34 oz.	43 oz.	39 oz.
Dimensions	15.25" L x 6.75" x 12" H	16.25" L x 6.75" x 12" H	16.75" L x 6.75" x 12" H	16.75" L x 6.75" x 12" H
Net weight	29.5 lbs. (13.4 kg)	31.5 lbs. (14.3 kg)	34.0 lbs. (15.4 kg)	31.0 lbs. (14 kg)

Export	Export	Export	Export	Export
Model #	93542 (95 L/M at 50 Hz) (113 L/M at 60 Hz)	93562 (142 L/M at 50 Hz) (170 L/M at 60 Hz)	93582 (190 L/M at 50 Hz) (225 L/M at 60 Hz)	93592 (260 L/M at 50 Hz) (310 L/M at 60 Hz)
Voltage	115/220V, 50/60 Hz	115/220V, 50/60 Hz	115/220V, 50/60 Hz	115/220V, 50/60 Hz
Model # ☼ Euro plug	93543 (95 L/M at 50 Hz) (113 L/M at 60 Hz)	93563 (142 L/M at 50 Hz) (170 L/M at 60 Hz)	93583 (190 L/M at 50 Hz) (225 L/M at 60 Hz)	93593 (260 L/M at 50 Hz) (310 L/M at 60 Hz)
Voltage	230V, 50 Hz	230V, 50 Hz	230V, 50 Hz	230V, 50 Hz
Model # ☼ UK plug	93547 (95 L/M at 50 Hz) (113 L/M at 60 Hz)	93567 (142 L/M at 50 Hz) (170 L/M at 60 Hz)	93587 (190 L/M at 50 Hz) (225 L/M at 60 Hz)	93597 (260 L/M at 50 Hz) (310 L/M at 60 Hz)
Voltage	230V, 50 Hz	230V, 50 Hz	230V, 50 Hz	230V, 50 Hz
Model #	93544 (95 L/M at 50 Hz) (113 L/M at 60 Hz)	93564 (142 L/M at 50 Hz) (170 L/M at 60 Hz)	93584 (190 L/M at 50 Hz) (225 L/M at 60 Hz)	93595 (260 L/M at 50 Hz) (310 L/M at 60 Hz)
Voltage	115/240V, 50/60 Hz	115/240V, 50/60 Hz	115/240V, 50/60 Hz	115/240V, 50/60 Hz

Will not work with ammonia.

YELLOW JACKET® VACUUM PUMP OIL – now available in pints

YELLOW JACKET vacuum pump oil is specially refined and formulated for extremely low vapor pressure and high pump efficiency at all temperature conditions. This means that with proper maintenance you will get a **continued return on your pump investment.**

UPC #	Description
93091	Pint of vacuum oil - 24 per case
93092	Quart of vacuum oil - 12 per case
93094	Gallon of vacuum oil - 4 per case
93095	55 gallon drum

MSDS sheet on website.



3 sizes

VACUUM FITTING SEALANT



Use vacuum sealant around threads, through flared connections, face joints, wherever metal

joins metal. Sets up quickly, and

remains flexible for easy disconnection. Seal to down to 1 micron. 4 ounce can with brush applicator.

UPC#	Description	Quantity
93090	Vacuum sealant	1 can
93089	Vacuum sealant	12/case

PUMP SPECIFICATIONS (1.5 CFM)

Domestic	Model 93350
Free air displacement	1.5 cfm
Number of stages	2 stage rotary vane
Field blankoff	15 microns
Intake	1/4" and 3/8" Male flares and 1/2" Acme Male
Motor	1/6 hp 1725 rpm
Thermal overload	Temperature rise 40° C
Voltage	115 Volt - 60 cycle
Power cord	8' foot cord
Oil capacity	16 oz.
Dimensions	10.5" L x 5.1" x 9.2" H
Net weight	20 lbs. (9.1 kg.)

Export	Export
Model	93352
Voltage	230V, 50 Hz

OIL EXHAUST FILTER

Screws onto the pump exhaust to eliminate oil mist. Use on 1.5, 2, 4, 6, 8 cfm pumps as well as new 11 cfm pump.



UPC#	Description
93386	Exhaust filter
93387	Replacement element

YELLOW JACKET SUPEREVAC REPLACEMENT PARTS

	OLD 1985-96 3, 5, 7.5 (Ritchie & cfm cast into cover)	1.5 —	Original 1996-97 4, 6, 8 (Ritchie only cast into cover)	Updated 1998-2005 4, 6, 8 (Label on front cover)	New 2005-present 4, 6, 8, 11 —	Large 1997-present 12, 18, 24 (Ritchie cast into cover)
Handle assembly	93042	—	93401	93370	93370	93401
Oil fill cap with seal	93041	93390	93390	93390	93390	—
Oil fill fitting	—	93391	93391	93391	93391	—
Oil sight glass	93039	93340	93403	93365	93365	93812
Oil drain plug	93040	93368	93402*	93368	93368	93368
4 cfm cartridge complete**	—	—	93441	93441	93441	—
6 cfm cartridge complete**	—	—	93461	93461	93461	—
8 cfm cartridge complete**	—	—	93481	93481	93481	—
11cfm cartridge complete**	—	—	—	—	93591	—
Shaft seal	93031	93341	93031	93031	93031	93798
30" vacuum gauge	93011	93011	93011	93011	93011	93011
Vacuum gauge lens	93012	93012	93012	93012	93012	93012
Gas ballast gasket with "O"-ring	93098	93368	—	93368	93509	93402
O-ring for gas ballast	93032	93398	93398	93398	93398	93032
Intake port gasket	93027	—	93393	93393	93508	93799
Toggle style switch	93114	—	93114	—	—	93807
Rocker style switch	—	—	—	93117	93117	—
Oil cover gasket	93048	93344	93404	93369	93507	93810
Drive coupling	93047	—	93047	93047	93047	93811
Leg with screws	93034	93034	93034	93034	93034	93797
SUPEREVAC MODEL#	93420		93440		93460	93480
Set of (4) replacement vanes	93372		93374		93376	93378

* Discontinued **Complete cartridges with oil cover gasket. Completely assembled and pre-tested.

VACUUM PUMP ADAPTER

Convert a 3/8" or 1/2" vacuum pump intake into flare and Acme compatible fittings.



UPC #	Description
36018	1/2" pump adapter with 1/4" flare and 1/2" Acme male fittings
19015	1/2" replacement gaskets for 36018
36019	3/8" pump adapter with 1/4" flare and 1/2" Acme male fittings
19011	3/8" replacement gaskets for 36019

HEAT GUN for faster vacuums

600° and 1000°F settings. Shockproof and tough housing is durable and lightweight. Use for:

- Coil defrosting.
- Faster vacuums.
- Drying out condensation in motors, clutches etc.

Kits include gun, adapters and case.

UPC#	Description
69092	Heat gun kit 115V - UL, CSA, CE
69093	Heat gun kit 230V - Euro plug, CE



VACUUM PUMP INTAKE REDUCER ADAPTER



UPC#	Description
19030	Rubber gasket "O"-ring (10 pak) for 19130 and 19133
19130	3/8" Fe. fl. x 1/4" Male fl. adapter
19131	1/2" Fe. fl. x 3/8" Male fl. adapter
19132	1/2" Fe. fl. x 1/4" Male fl. adapter
19133	3/8" Fe. fl. x 1/2" Male fl. adapter
19160	1/2" Fe. fl. x 1/2" Male Acme adapter
93058	Rubber gasket "O"-ring (1 pak) for 19131, 19132 and 19160

BELT DRIVE VACUUM PUMPS (.88-17.7 cfm) by Hyvac Products



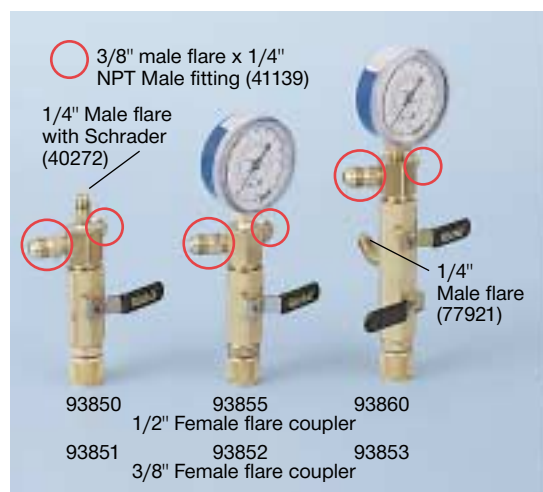
These 2-stage pumps are lab rated at .1 micron and feature

large oil capacity, vented exhaust, standard belt guards, motor capacitors and automatic overload protection. Optional exhaust filters available.

UPC#	80200	80210	80220	80230	80240
cfm - free air (L/M)	.88 (25)	2.79 (79)	5.6 (160)	10.6 (310)	17.7 (500)
Ultimate vacuum (lab)	.1 micron	.1 micron	.1 micron	.1 micron	.1 micron
Stages	2	2	2	2	2
Motor hp (ODP)	1/4	1/3	1/2	1	1-1/2
Voltage (single phase)	115 - 60 Hz	115 - 60 Hz	115 - 60 Hz	115 - 60 Hz	115 - 60 Hz
Pump rpm	580	525	525	525	550
Oil capacity	1 quart	1-1/2 quart	5 quarts	7 quarts	9 quarts
Gas ballast	Standard	Standard	Standard	Standard	Standard
Intake O.D.	9/16"	7/8"	1-1/4"	1-5/16"	1-13/16"
Dimensions L x W x H	15" x 10" x 11"	18" x 12" x 11"	18" x 13" x 16"	18" x 16" x 19"	21" x 20" x 20"
Shipping weight	70 lbs.	110 lbs.	135 lbs.	154 lbs.	242 lbs.

* For special electrical requirements, contact factory. Some 50 Hz available for export.

SUPEREVAC™ EVACUATION MANIFOLDS



SuperEvac 1/2" manifolds are engineered as system components for the SuperEvac pumps to help decrease

vacuum time by over 50% and improve micron readings. Mounts with 1/2" or 3/8" Female flare quick coupler and provides easy connections for two 3/8" vacuum hoses. (see pages 28 and 29).

- Flutterless™ gauge
- Non-restricting, full flow valves for fast vacuum
- Convenient 1/4 turn full flow
- Extra port for electronic gauge or charging cylinder (41139)
- Now includes step down adapter to connect to 3/8" pump intake

UPC #	Description
93851	Single valve with 1/4" Schrader mount with 3/8" Female flare
93852	Single valve with low side gauge mount with 3/8" Female flare
93853	Two valves with low side gauge mount with 3/8" Female flare
93850	Single valve with 1/4" Schrader mount with 1/2" Female flare
93855	Single valve with low side gauge mount with 1/2" Female flare
93860	Two valves with low side gauge mount with 1/2" Female flare
93854	1/2" flare connector
77921	1/4" flare x 1/8" NPT Male elbow
19096	Replacement handle for all 3 ball valves
19015	1/2" gasket (10-pak)
19133	Pump step-down adapter. 3/8" Female flare x 1/2" Male flare
19030	3/8" "O"-ring (10 pak)
93211	3/8" flare cap with gasket
40272	1/4" Male flare with Schrader for 93850
41139	3/8" Male flare x NPT Male fitting
49002	Blue compound °F gauge

SUPEREVAC EVACUATION SYSTEMS I, II & III



All system components are available separately, but system pricing makes I, II and III attractive buys.

All systems include a 2-valve manifold and two 3/8" vacuum hoses for a fast vacuum. Vacuum valves, included with all systems, allow core removal and system isolation. This combination reduces vacuum time by over 60% compared to using a regular 1/4" manifold and evacuating through only one side.

System II adds 69075 electronic gauge and service valve wrench to the basic System I.

System III adds a 6 cfm SuperEvac pump to System II.

UPC # for 3/8"	Description	UPC # for 1/2"
93865	System I: 2-valve manifold, two 16248 48" vacuum hoses. 2 valves	93866
93875	System II: all of above plus 69075 electronic vacuum gauge	93876
93885	System III: all of above plus a 6 cfm SuperEvac pump (93560)	93886 (8 cfm)
	1/2" "O"-ring gasket (10 pak)	19015
19030	3/8" "O"-ring gasket (10 pak)	

1/4" BALL VALVE 4-IN-1 VACUUM/CHARGE VALVE & CORE TOOL



UPC #	Description
18971	Vacuum/charge ball valve
18975	Vacuum/charge valve w/side port

This versatile tool for the low or high side of a system does four jobs:

- 1. Vacuum valve.** Extra 1/4" side port on 18975 to attach electronic micron vacuum gauge right at system for greater accuracy.
- 2. Core removal access.** Lets you evacuate and charge through an unrestricted line for increased speed and higher vacuum.
- 3. Core replacement.**
- 4. Recovery valve.** Core removal speeds recovery process.

For more details see page 34.

MECHANICAL VACUUM GAUGES

Mechanical vacuum gauges for system installation. Bourdon tube type gauge. All feature 1/8" NPT Male bottom fitting. CAUTION: Handle gauges carefully to assure full service life. See page 64 for further details.



UPC #	Description
69044	3 1/8" Vacuum gauge 0-30 inHg/760-0 Torr (mm)
69045	3 1/8" Vacuum gauge European version (1000-0 millibar/30-0 inch)

YELLOW JACKET® DIGITAL VACUUM GAUGE with seven units of vacuum for confidence



This easy-to-use gauge helps you to be certain that air and moisture have been removed from the system. Simple push of a button changes the display readout between 7 units of vacuum. **Each displays down to the equivalent of 10 microns of vacuum to let you know that your vacuum pump is clean and performing properly.** If the sensor gets dirty, simply pull a new sensor out of your tool kit, plug it into the gauge, run

through a quick calibration process, and be back on the job within minutes

- Unique patented thermal conductivity sensor automatically compensates for temperature
- Replaceable, cleanable, plug-in sensor (Part #69087) handles 450 psi positive pressure

- Displays 7 different units of vacuum (microns, milliTor, Torr, millimeters of mercury, millibar, kiloPascal and Pascal)



UPC #	Description
69086	Hand-held vacuum gauge with fabric carry pouch
69087	Replacement sensor
69091	Replacement fabric pouch for 69086

- 12" coiled sensor cord stretches to 24" for easy reach, connectivity, and readability of display
- Low battery indicator
- Automatic shut-off after 20 minutes
- Operating Temperature Range: 32° to 122°F (0° to 50°C)
- Weight: 12 oz. (340 g) with battery
- Calibration standards traceable to (NIST)
- Battery Life: Approximately 25 hours continuous use

YELLOW JACKET® DIGITAL LCD ECONOMY VACUUM GAUGE



Versatile — Connect to the YELLOW JACKET® SuperEvac™ Vacuum Pump, or in line with a tee fitting, or directly to the system with YELLOW JACKET® core removal tool 18975 (at right and on page 34).

For peace of mind, this gauge shows you that air and moisture have been removed from the system. The lower the number of microns, the more complete the vacuum and less chance for no-charge call-backs. Track down 14 increments from atmosphere to 25 microns to know that the system is clean and your vacuum pump is performing properly.



- Unique thermal conductivity sensor automatically compensates for temperature with no calibration
- Simple On/Off controls
- Easy-to-clean sensor handles 450 psi positive pressure

- Rugged contractor-grade construction with tough ABS housing and solid state circuitry for accuracy
- Automatic battery saver shuts gauge off after 20 minutes with no reading changes
- Low battery indicator.
- Calibration standards traceable to the National Institute of Standards and Technology (NIST)
- Patented technology

Packaged complete with 9V alkaline battery and hanging hook

UPC #	Description
69080	Digital LCD vacuum gauge with battery, hook
69081	Optional soft-sided protective case
69079	Replacement battery door and screw

SuperEvac™ LCD VACUUM GAUGE – Full range – atmosphere to 1 micron

Compact design with storage
for sensor, cable and brass
connector.



YELLOW JACKET LCD vacuum gauges combine thermocouple sensor technology with advanced electronics for precise readings and repeatability not found with thermistor sensors or analog meters. The result - accurate readings from atmosphere to 1 micron without recalibration on job after job.

Thermocouple technology has long been proven in laboratory and precision industrial instrumentation for sensing the deep vacuum range. Thermocouple sensors are factory calibrated and exhibit few of the electronic variances of thermistor sensors found in many other electronic gauges.

Thermocouple sensor features:

- No adjustments or warm-up. Stays calibrated after on/off switching and long evacuations.
- Automatic battery compensation
- Automatic ambient temperature compensation

LCD gauge features:

- Normal handling and jarring will not affect the LCD reading
- Rugged molded case protects electronic circuitry and sensor
- Calibration standards traceable to (NIST)

- Precision circuitry controls sensor and translates sensor input into micron readings on the easy-to-read LCD

Specifications

Response time:	3 seconds
Calibration:	Automatic
Warm up:	3 seconds
Sensor cable:	5.5 feet (167 cm) coiled
Sensor connection:	1/4" Male flare
Operating temperatures:	32° to 120°F (0° to 49°C)
Power:	1 "D" cell battery
Battery life:	70 hrs continuous
Battery check:	On LCD display
Dimensions:	9" x 12.25" x 2.37" (230 x 310 x 60 mm)
Accuracy:	± 20% of reading

UPC #	Description
69071	Brass connector 1/4" FF x 1/4" FF
69073	Replacement sensor for 69070, 69075
69075	SuperEvac LCD vacuum gauge full range complete in case (atmosphere to 1 micron)
69067	Optional ball valve to add to sensor 1/8" NPT Female x 1/4" Female flare
19110	Optional coupler to add to sensor 1/8" NPT Female x 1/4" Female flare

YELLOW JACKET® DELUXE LED VACUUM GAUGE – AC powered



Professional laboratory type instrument with .56" high bright LED readout is 100% automatic.

- Thermocouple sensor technology for precise and repeatable accuracy
- Improved software expands sensing range from atmospheric pressure to 1 micron.
- Calibration standards traceable to (NIST)

Complete unit includes aluminum LED display unit, sensor with valve, cable, brass connector and carrying case.

Specifications

Response time:	3 seconds
Calibration:	Automatic
Warm up:	3 seconds
Sensor cable:	9 feet (274 cm)
Sensor connection:	1/4" Male flare with isolation valve
Operating temperatures:	-30° to 150°F (-34° to 65°C)
Storage temperatures:	-30° to 160°F (-34° to 65°C)
Power:	115V 60 Hz (230V available)
Power cord:	6 foot
Dimensions:	4.25" x 5.5" x 1.5" (108 x 140 x 38 mm)
Carrying case:	Heavy duty plastic 12.25" x 8" x 3.5" (310 x 203 x 89 mm)

UPC #	Description
69060	LED vacuum gauge kit complete with case, 115V
69063	LED vacuum gauge kit complete with case, 230V
69064	Sensor for 69060 and 69063
69065	9' sensor cable for above
69066	Carrying/storage case
69067	Ball valve for sensor 1/8" NPT Female x 1/4" Male flare
69071	1/4" Female flare connector
15006	Optional vibration isolation hose