



FOR GUARDAIR STANDARD AND STATIC CONDUCTIVE COMPRESSED AIR-POWERED VACUUMS

DO NOT DISCARD THESE INSTRUCTIONS

FOR YOUR SAFETY

Turn off all compressed air connections to the compressed air source at the nearest valve. Disconnect compressed air connections only after the compressed air supply has been turned off and the air supply hose has been vented by opening the valve on the vacuum head. NEVER disconnect a pressurized compressed air hose.

AIR SUPPLY

An adequate supply of compressed air is essential for the proper performance of your Guardair vacuum. Compressed air requirements for vacuum units and vacuum generating heads equipped with the following Venturi types are listed below:

"Dual B" Venturi

N552B Series
"B" Type Venturi
N551B Series, N301B Series
"D" Type Venturi
N551D Series, N301D Series, N201DC, N101DC47 cfm
"S" Type Venturi
N201SC, N101SC20 cfm
"M" Type Venturi
N101MC, N051MC20 cfm

Please note that these requirements are for compressed air volume, not pressure. The recommended compressed air inlet operating pressure is 100 psi for all vacuum units. All units will function at lower operating pressures, but with a corresponding reduction in performance.

Units featuring a "Dual B", "B" or "D" Type Venturi include a Chicago-style connector. 3/4" ID or larger compressed air supply hose is recommended for these models.

Units featuring an "S" Type Venturi include a ½" industrial interchange male connector. ½" ID or larger compressed air supply hose is recommended for these models. Units featuring an "M" Type Venturi include a ¾"

industrial interchange male connector. %" ID or larger compressed air supply hose is recommended for these models.

FOR ALL MODELS: To ensure maximum performance, clean or replace the internal filter as necessary. In addition, clean or replace the exhaust silencer (inside the exhaust housing) as necessary. Inspect the cover gasket for deterioration and replace if necessary. On all vacuum units, use of a smaller diameter air supply hose or smaller diameter air fittings will seriously restrict performance. Use the recommended hoses and fittings.

Be certain that the drum has no dents along the seams and is airtight. The cover gasket under the vacuum generating head must form a complete seal with the top edge of the drum.

CAUTION: Drums used with Guardair vacuum generating heads must meet the gauge (thickness) requirements in the table below. Thinner gauges of steel run the risk of drum collapse.

DRUM	55 gal	30 gal	20 gal	10 gal	5 gal
GAUGE	19	18	18	20	20

REPLACING GASKETS

On 55, 30 & 20 Gallon Models, remove the gasket to be replaced. Remove the protective tape covering the adhesive on the new gasket, then apply to lid.

On 10 & 5 Gallon Models, the lid gasket is adhered to the lid by hot glue. The hot glue can easily be removed with rubbing alcohol. Let the rubbing alcohol sit for one minute, then peel off with a flat head screwdriver. We recommend using hot glue when installing new gasket.



SET-UP AND OPERATION, 55-GALLON, 30-GALLON AND 20-GALLON MODELS:

Place the vacuum generating head on the drum. There are no clamps required to form an airtight seal. When the vacuum is in operation, the negative pressure within the drum will create the airtight seal between the head and drum.

Connect the vacuum hose to the vacuum generating head by inserting the hose adapter into the inlet elbow. Slip the hose end onto the adapter. Connect vacuum attachments to the vacuum hose.

Turn off the compressed air supply valve at the compressor.

Dual B, B & D Venturis

Connect the compressed air supply hose to the vacuum generating head via the Chicago-style coupler. Twist together and be sure they lock. Install the safety clips. Connect the compressed air supply hose to the compressor. Turn on the compressed air supply. Open the shut-off valve to operate.

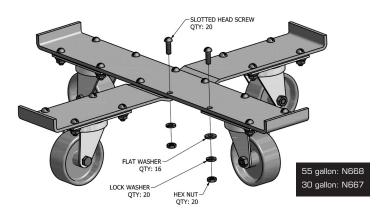
S Venturis

Connect the compressed air supply hose to the vacuum generating head via the 1/2" industrial interchange male connector. Connect the compressed air supply hose to the compressor. Turn on the compressed air supply. Open the shut-off valve to operate.

Liquid Shut-off Accessory

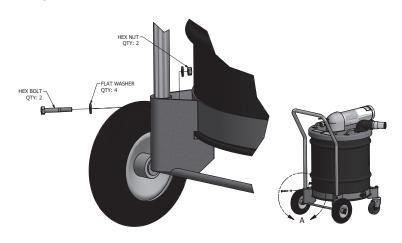
Before picking up liquids, remove the internal filter, which is held in place by three springs. For continuous liquid pick-up, the liquid shut-off accessory (optional) should be installed in place of the internal filter and held in place by the same three springs.

55 & 30 Gallon Drum Dolly Assemble the drum dolly for 55-gallon and 30-gallon models as shown below.



Caution: Dolly maximum load capacity is 1,000 pounds.

20 Gallon Drum Dolly: Assemble the drum dolly for 20-gallon model as shown below (Compatible with 30 gallon).



Caution: Dolly maximum load capacity is 1,000 pounds.

SET-UP & OPERATION, 10-GALLON MODELS:

The vacuum generating head, which mounts on top of the drum, seals to the drum via the lid clamps.

Connect the vacuum hose to the vacuum hose inlet by slipping the hose end onto the connector. This is an intentionally tight fit. Connect vacuum attachments to the vacuum hose.

The vacuum comes with a liquid shutoff assembly built internally within the cartridge filter. The cartridge filter can be removed for maintenance or replacement by removing the wing nut and washer on the bottom of the filter.

Turn off the compressed air supply valve at the compressor.

Model N101DC - Connect the compressed air supply hose to the vacuum generating head via the Chicago-style coupler. Twist together, making sure that they lock. Install the safety clips. Connect the compressed air supply hose to the compressor. Turn on the compressed air supply. Open the shut-off valve to operate.

Model N101SC - Connect the compressed air supply hose to the vacuum generating head via the ½" industrial interchange male connector. Connect the compressed air supply hose to the compressor. Turn on the compressed air supply. Open the shut-off valve to operate.

Model N101MC - Connect the compressed air supply hose to the vacuum generating head via the 36" industrial interchange male connector. Connect the compressed air supply hose to the compressor. Turn on the compressed

air supply. Open the shut-off valve to operate.

SET-UP & OPERATION, 5-GALLON MODELS:

The vacuum generating head, which mounts on top of the drum, seals to the drum via the lid clamps.

Connect the vacuum hose to the vacuum hose inlet by slipping the hose end onto the connector. This is an intentionally tight fit. Connect vacuum attachments to the vacuum hose.

The vacuum comes with a liquid shutoff assembly built internally within the cartridge filter. The cartridge filter can be removed for maintenance or replacement by removing the wing nut and washer on the bottom of the filter.

Turn off the compressed air supply valve at the compressor.

Connect the compressed air supply hose to the vacuum generating head via the %" industrial interchange male connector. Connect the compressed air supply hose to the compressor. Turn on the compressed air supply. Open the shut-off valve to operate.

STATIC CONDUCTIVE MODELS:

Guardair also manufactures Static Conductive, also known as NED (non-electrical discharge) models, designed to eliminate static electricity by incorporating static conductive components to suppress static electricity charges. Should stray static charges become generated, these charges are immediately dissipated through the electrically interconnected, static conductive components. For an added measure of protection, users can ground the vacuum by connecting the grounding lug to an external electrical ground using a grounding clamp and cable (available as an accessory item).

To ensure proper electrical bonding (connectivity between components), make sure that only static conductive, factory-supplied parts and accessories are used with Guardair NED vacuums. All components must fit together firmly, including the static conductive vacuum hose, which must mount securely on the vacuum hose inlet, and all static conductive vacuum accessories.

Always inspect all static conductive vacuum components before use, and replace worn or rusted parts as needed.

If you have questions about the necessity for grounding, consult with a qualified safety engineer.

WARNING

FIRE/EXPLOSION DANGER

Guardair vacuums, like all other pneumatic and electric vacuums, generate static electric charges. Factory installed kits to control static electricity, the use of static conductive hoses and grounding straps, and Guardair Static Conductive Pneumatic Vacuums are intended to control and eliminate static electric shocks only to the operators of the vacuums. Guardair vacuums are NOT APPROVED OR SAFE to use in any hazardous (classified) location, such as locations determined under NFPA 70 (National Electrical Code) to be Class I (flammable liquids, gases and vapors — includes all Class I Divisions and IEC Zones), Class II (combustible dust — includes all Class III Divisions and IEC Zones) and Class III (ignitable fibers and flyings — includes all Class III Divisions and IEC Zones).

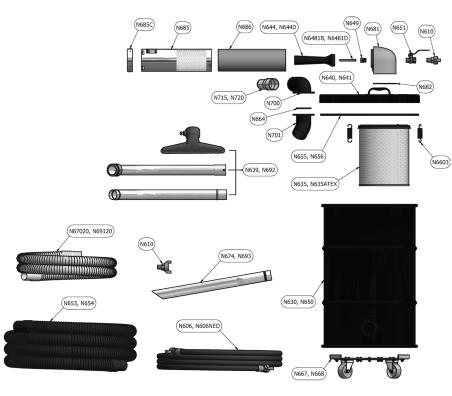
FOREVER WARRANTY:

Guardair Corporation ("Guardair") warrants that its compressed air-powered vacuums are free from defects in materials and workmanship for as long as the original end-user purchaser owns the product, except as provided below. Guardair will, at its option, repair or replace with a comparable product, any product, part, or component that fails under normal use as a result of such defect. This warranty does not apply to damage caused by the carrier; normal wear and tear; deterioration due to solvents, corrosives, environmental conditions, or harsh vacuumed material; soiling, saturation, or perforation of filters or exhaust silencers; consumable components; modifications to the product; attachments to the product not sold by Guardair; or any product not installed, used, or maintained in accordance with the foregoing and other published Guardair instructions and warnings. Consumables purchased from Guardair, including attachments, vacuum hose, filters, exhaust silencers, and cover gaskets are warrantied for a period of 90 days against defects in materials and workmanship, subject to the same exclusions noted above.

This warranty covers the original purchase of a new product by an end-user for normal industrial or commercial use only when installed and used as specified and in accordance with published operating instructions and within all applicable regulatory rules, limits, and guidelines.

PARTS LISTS

55 AND 30 GALLON SINGLE VENTURI VACUUM KIT



14010	172 TVI T Grilledge Godpiel
N630	30 Gallon Steel Drum
N635	Standard Cartridge Filter For 30/55 Gallon Vacuums
N635ATEX	ATEX Bonded Cartridge Filter
N639	12" Wide Aluminum Floor Tool With 4' Steel Double Curved Wand For 2" Vacuum Hose
N640	Lid For 30 Gallon Drum`
N641	Lid For 55 Gallon Drum
N644	B Series Venturi
N644D	D & S Series Venturi
N6481B	B Series Orifice
N6481D	D Series Orifice
N649	1/2" X 1/8" NPT Brass Hex Reducing Bushing For Air Jet
N650	55 Gallon Steel Drum
N651	1/2" NPT Ball Valve, Brass For Compressed Air Shut-Off
N653	1.5" X 20' Static Conductive Vacuum Hose
N654	2" X 20' Static Conductive Vacuum Hose
N655	30 Gallon Vacuum Lid Gasket
N656	55 Gallon Vacuum Lid Gasket
N6603	Retaining Spring (Set of 3)
N664	Elbow Gasket
N667	30 Gallon Dolly Assembly
N668	55 Gallon Dolly Assembly
N67020	2" X 20' Standard Duty Vinyl Vacuum Hose
N674	24" Steel Crevice Tool For 2" Vacuum Hose
N681	Venturi Box
N682	Venturi Box Gasket
N685	Exhaust Housing-Long
N685C	Exhaust Housing End Cap
N686	Exhaust Silencer Foam Insert
N69120	1.5" X 20' Standard Duty Vinyl Vacuum Hose
N692	12" Wide Aluminum Wet/Dry Floor Tool Kit For 1.5" Vacuum Hose
N693	24" Aluminum Crevice Tool For 1.5" Vacuum Hose
N700	Inlet Elbow For 30/55 Gallon Vacuums
N701	Discharge Elbow For 30/55 Gallon Vacuums
N715	1.5" Vacuum Hose Adapter
N720	2" Vacuum Hose Adapter

Part Number

N606NED

N606

N610

Description

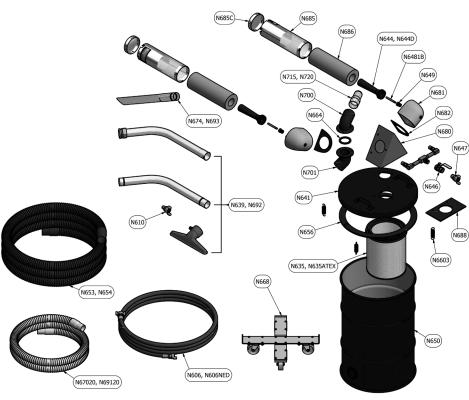
3/4" ID X 20' Air Supply Hose

1/2" NPT Chicago Coupler

3/4" ID X 20' Static Conductive Air Supply Hose

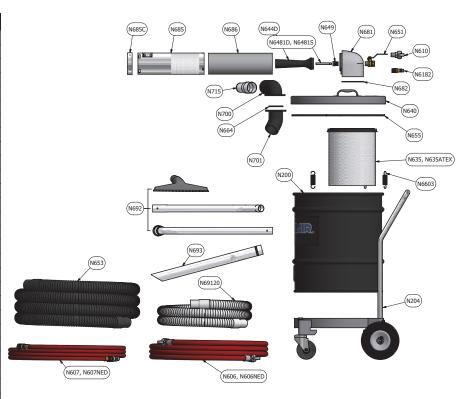
55 AND 30 GALLON DUAL VENTURI VACUUM KIT

Part Number	Description
N606	3/4" ID X 20' Air Supply Hose
N606NED	3/4" ID X 20' Static Conductive Air Supply Hose
N610	1/2" NPT Chicago Coupler
N635	Standard Cartridge Filter For 30/55 Gallon Vacuums
N635ATEX	ATEX Bonded Cartridge Filter
N639	12" Wide Aluminum Floor Tool With 4' Steel Double Curved Wand For 2" Vacuum Hose
N641	Lid For 55 Gallon Drum
N644	B Series Venturi
N644D	D & S Series Venturi
N6481B	B Series Orifice
N649	1/2" X 1/8" NPT Brass Hex Reducing Bushing For Air Jet
N650	55 Gallon Steel Drum
N653	1.5" X 20' Static Conductive Vacuum Hose
N654	2" X 20' Static Conductive Vacuum Hose
N655	30 Gallon Vacuum Lid Gasket
N656	55 Gallon Vacuum Lid Gasket
N6603	Retaining Spring (Set of 3)
N664	Elbow Gasket
N668	55 Gallon Dolly Assembly
N67020	2" X 20' Standard Duty Vinyl Vacuum Hose
N674	24" Steel Crevice Tool For 2" Vacuum Hose
N681	Venturi Box
N682	Venturi Box Gasket
N685	Exhaust Housing-Long
N685C	Exhaust Housing End Cap
N686	Exhaust Silencer Foam Insert
N688	Dual Venturi Box Gasket
N69120	1.5" X 20' Standard Duty Vinyl Vacuum Hose
N692	12" Wide Aluminum Wet/Dry Floor Tool Kit For 1.5" Vacuum Hose
N693	24" Aluminum Crevice Tool For 1.5" Vacuum Hose
N700	Inlet Elbow For 30/55 Gallon Vacuums
N701	Discharge Elbow For 30/55 Gallon Vacuums
N715	1.5" Vacuum Hose Adapter
N720	2" Vacuum Hose Adapter

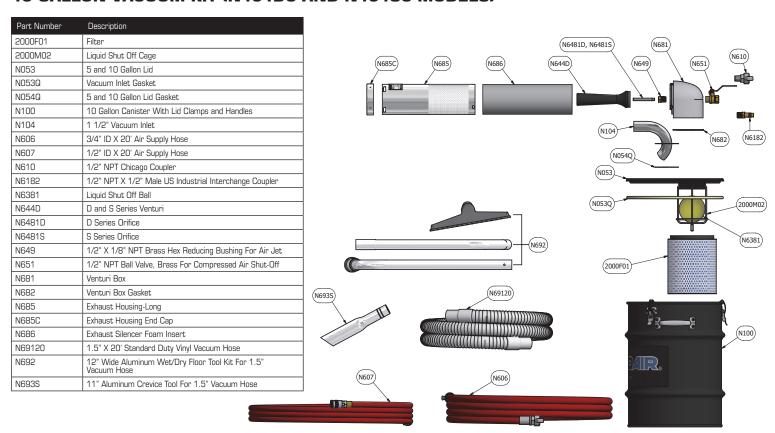


20 GALLON VACUUM KIT

D . M .	
Part Number	Description
N200	20 Gallon Drum
N204	20 Gallon Dolly
N606	3/4" ID X 20' Air Supply Hose
N606NED	3/4" ID X 20' Static Conductive Air Supply Hose
N607	1/2" ID X 20' Air Supply Hose
N607NED	1/2" ID X 20' Static Conductive Air Supply Hose
N610	1/2" NPT Chicago Coupler
N6182	1/2" NPT - 1/2" Male Us Industrial Interchange Coupler
N635	Standard Cartridge Filter
N635ATEX	ATEX Bonded Cartridge Filter
N640	20 Gallon Lid
N644D	D & S Series Venturi
N6481D	D Series Orifice
N6481S	S Series Orifice
N649	1/2" X 1/8" NPT Brass Hex Reducing Bushing for Air Jet
N651	1/2" NPT Ball Valve, Brass For Compressed Air Shut-Off
N653	1.5" X 20' Static Conductive Vacuum Hose
N655	30 Gallon Lid Gasket
N6603	Retaining Spring (Set of 3)
N664	Elbow Gasket
N681	Venturi Box
N682	Venturi Box Gasket
N685	Exhaust Housing-Long
N685C	Exhaust Housing End Cap
N686	Exhaust Silencer Foam Insert
N69120	1.5" X 20' Standard Duty Vinyl Vacuum Hose
N692	12" Wide Aluminum Wet/Dry Floor Tool Kit For 1.5" Vacuum Hose
N693	24" Aluminum Crevice Tool For 1.5" Vacuum Hose
N700	Inlet Elbow
N701	Discharge Elbow
N715	1.5" Vacuum Hose Adapter

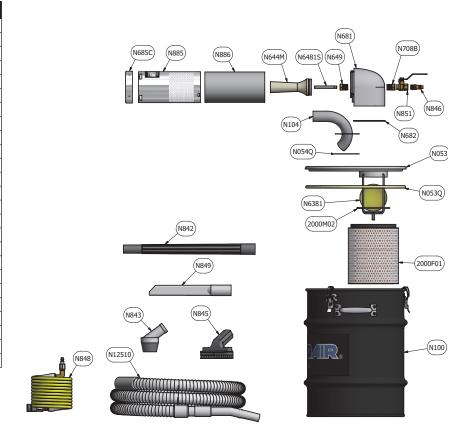


10 GALLON VACUUM KIT (N101DC AND N101SC MODELS)



10 GALLON VACUUM KIT (N101MC MODEL)

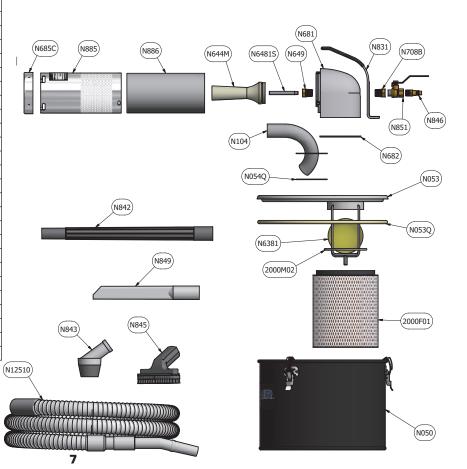
Part Number	Description
2000F01	Filter
2000M02	Liquid Shut Off Cage
N053	5 and 10 Gallon Lid
N053Q	Vacuum Inlet Gasket
N054Q	5 and 10 Gallon Lid Gasket
N100	10 Gallon Canister With Lid Clamps and Handles
N104	1 1/2" Vacuum Inlet
N12510	1.25" X 10' Standard Duty Vacuum Hose
N6381	Liquid Shut Off Ball
N644M	M Series Venturi
N6481S	S Series Orifice
N649	1/2" X 1/8" NPT Brass HEX Reducing Bushing For Air Jet
N681	Venturi Box
N682	Venturi Box Gasket
N685C	Exhaust Housing End Cap
N708B	1/2" Male NPT X 3/8" FNPT Threaded Bushing
N842	20" Plastic Extension For 1.25" Vacuum Hose
N843	3" Plastic Round Brush Tool For 1.25" Vac Hose
N845	5" Wide Plastic Utility Tool With Brush For 1.25" Vacuum Hose
N846	3/8" ID Air Line Coupling
N848	3/8" ID X 12' Air Supply Hose
N849	9" Plastic Crevice Tool For 1.25" Vacuum Hose
N851	3/8" Male NPT Shut-Off Valve
N885	Exhaust Housing - Short
N886	Exhaust Silencer Foam Insert



5 GALLON VACUUM KIT

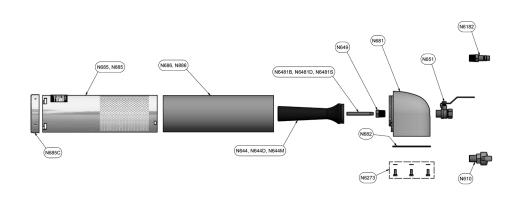
Part Number	Description
2000F01	Filter
2000M02	Liquid Shut Off Cage
N050	5 Gallon Canister With Lid Clamps
N053	5 and 10 Gallon Lid
N053Q	Vacuum Inlet Gasket
N054Q	5 and 10 Gallon Lid Gasket
N104	1 1/2" Vacuum Inlet
N12510	1.25" X 10' Standard Duty Vacuum Hose
N6381	Liquid Shut Off Ball
N644M	M Series Venturi
N6481S	S Series Orifice
N649	1/2" X 1/8" NPT Brass HEX Reducing Bushing For Air Jet
N681	Venturi Box
N682	Venturi Box Gasket
N685C	Exhaust Housing End Cap
N708B	1/2" Male NPT X 3/8" FNPT Threaded Bushing
N831	Handle With Grip For 4 Gallon Vacuum Units
N842	20" Plastic Extension For 1.25" Vacuum Hose
N843	3" Plastic Round Brush Tool For 1.25" Vac Hose
N845	5" Wide Plastic Utility Tool With Brush For 1.25" Vacuum Hose
N846	3/8" ID Air Line Coupling
N848	3/8" ID X 12' Air Supply Hose
N849	9" Plastic Crevice Tool For 1.25" Vacuum Hose
N851	3/8" Male NPT Shut-Off Valve
N885	Exhaust Housing - Short
N886	Exhaust Silencer Foam Insert

(N848)



SINGLE VENTURI VACUUM GENERATING HEAD

Part Number	Description
N610	1/2" NPT Chicago Coupler
N6182	1/2" NPT X 1/2" Male US Industrial Inter- change Coupler
N6273	Venturi Box Mounting Hardware (Set)
N644	B Series Venturi
N644D	D Series Venturi
N644M	M Series Venturi
N6481B	B Series Orifice
N6481D	D Series Orifice
N6481S	S Series Orifice
N649	1/2" X 1/8" NPT Brass HEX Reducing Bushing For Air Jet
N651	1/2" NPT Ball Valve, Brass For Compressed Air Shut-Off
N681	Venturi Box
N682	Venturi Box Gasket
N685	Exhaust Housing-Long
N685C	Exhaust Housing End Cap
N686	Exhaust Silencer Foam Insert
N885	Exhaust Housing - Short
N886	Exhaust Silencer Foam Insert



DUAL VENTURI VACUUM GENERATING HEAD

Part Number	Description
N644	B Series Venturi
N646	Brass Shut-Off Valvce For Dual Venturi Models
N647	3/4" NPT Chicago Coupler
N6481B	B Series Orifice
N649	1/2" X 1/8" NPT Brass HEX Reducing Bushing For Air Jet
N680	Dual Venturi Box
N681	Venturi Box
N682	Venturi Box Gasket
N685	Exhaust Housing-Long
N685C	Exhaust Housing End Cap
N686	Exhaust Silencer Foam Insert
N688	Dual Venturi Box Gasket
N6893	Dual Venturi Box Mounting Hardware (Set)
	(N685C) (N685C)





N600A01-3 **8**