



*Patent D738406S &  
Patents Pending*

## Instruction Manual

*Original Language – English*

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## Introduction

Thank you for purchasing Intec's *VORTEC*<sup>®</sup> *CANNON* high powered vacuum system. Users -- ranging from Rental stores to Professional contractors -- will increase their Return-On-Investment when using this heavy duty system for insulation recycling, removal, and for HVAC cleaning applications. The innovative design and engineering of Intec's *VORTEC* series of vacuums results in a high powered system that has exceptionally high productivity, while safeguarding your investment with built-in features to ensure a long-lasting return providing exceptional value.

Since 1977, both professional contractors and do-it-yourself equipment users have looked to Intec as the industry leader in the design and manufacture of innovative portable insulation blowing equipment. Now those same individuals are profiting thru the use of our high powered vacuums that are Engineered for High Productivity and Built-to-Last for High Value Generation. We take pride in making your job as easy and profitable as possible thru our machines and accessories.

Best-in-class Customer Service: Total ease of use extends beyond your initial purchase of an Intec system to your evolving needs thru the entire lifecycle. Both before and after the sale service is important to keep you running at peak operating capabilities. Intec's technical team provides installation assistance in addition to maintenance suggestions and trouble-shooting support.

Thank you for partnering with Intec. We appreciate the confidence and trust you have placed in us, and wish you many profit-generating opportunities!

A handwritten signature in black ink, appearing to read "Ray".

Ray Lavallee  
President, Intec

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## Symbols

SYMBOL	SYMBOL	MEANING
	Danger	Indicates an imminently hazardous situation, which, if not avoided, will result in death or serious injury.
	Warning	Indicates a potentially hazardous situation, which, if not avoided, could result in death or serious injury.
	Caution	Indicates a potentially hazardous situation, which, if not avoided, may result in minor or moderate injury.

## Safety First

-  Keep hands, shirt, and other foreign objects away from machine during operation. 
-  DO NOT place hands or body parts in inlet or outlet pipes during operation.

-  Read and understand Vanguard's Engine Owner's Manual Prior to using system. 
-  Stop engine and keep heat, sparks and flames away when refueling.
-  Refuel only outdoors when engine is cool.
-  Keep gas can a safe distance away from vacuum during operation.
-  Wipe up fuel and oil spills immediately.
-  Never run the engine in a closed or even partially closed area; take out of trucks & trailers.
-  Keep the engine at least 3 feet (1 meter) away from buildings & other equipment during operation.
-  Keep flammable materials away; do not place anything on the engine while it is running or warm.
-  Never operate equipment without safety guards, front plate, or other orig. components in place.
-  Keep away from vacuum's inlet & outlet when machine is running.
-  Never position the outlet in a direction that can harm people or buildings if a foreign material were to exit at high speed.

-  When working with insulation, always wear a long sleeve shirt, gloves and a hat. Wear goggles or safety glasses for eye protection. Wear a mask for respiratory protection. 
-  Keep tools and foreign objects out of the hopper.
-  Never leave the machine unattended during operation.
-  Do not touch exhaust system during or immediately after use.
-  Have available an appropriately sized, working fire extinguisher in the event of need.

## How the System Works

**OVERVIEW:** The *VORTEC CANNON* impeller creates a powerful vacuum that pulls large volumes of air and product into the inlet. The air and product is centrifugally dispersed into the vacuum's shroud and discharged thru the outlet. "Cannon Mount" design provides for an exceptionally stable system. The *VORTEC CANNON* has a very powerful Vanguard Commercial Grade V-Twin engine, an oversized gas tank, and extra quiet exhaust.

An introduction to key components of the system follows:

**Vanguard 18hp - 570cc Commercial Grade V-Twin engine:** Powers the *VORTEC CANNON* high-powered vacuum. Electric start is standard.

**Impeller:** The proprietary impeller is comprised of a base, blades, gussets, & center hub. Together, the impeller assembly spins at very high rates (up to 3600 rpm) creating a vacuum due to the centrifugal forces created.

**Engine inlet air filter:** Limits foreign materials from being pulled into the engine's cooling air to assist in keeping engine cooling fins clean.

**Inlet:** The inlet tube diameter is 6 inches.

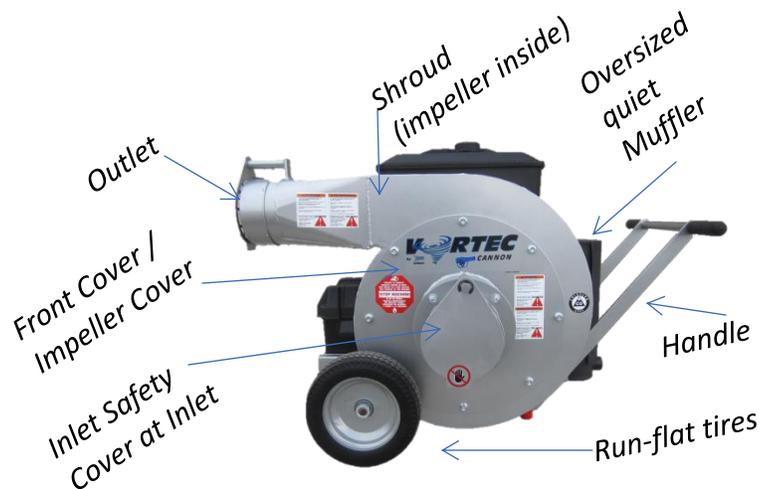
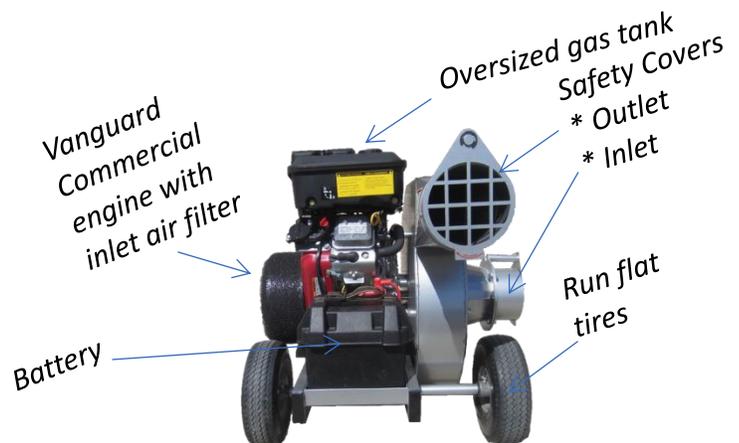
**Front Cover:** This panel allows access to the impeller assembly.

**Shroud:** The shroud is made of thick gauge steel and is 2X thick abrasive resistant steel in wear area.

**Outlet:** The 6" diameter outlet section features a safety shield that pivots out of the way to allow for a hose or vacuum bag to easily be mounted onto the outlet.

**Handle:** The handle assists with moving the vacuum.

**Run Flat Tires:** The 10" tires provide for ease in mobility while never needing air since they are filled with foam and will not go flat.



*Note: Actual system may have slight differences from pictures.*

## Set up and Operation

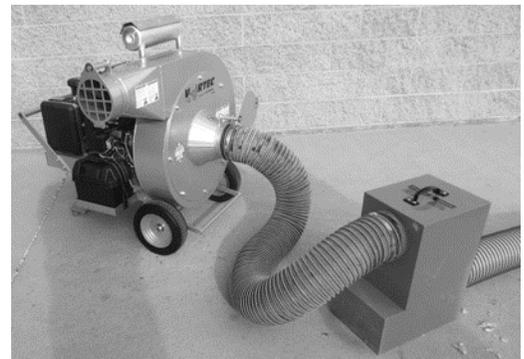
Please note that all *VORTEC CANNON*'s are tested prior to shipment. Each system has 5W30 oil installed. *It is recommended to check engine oil and fill with oil as required prior to each day's use.* Refer to Vanguard's engine manual for recommendations regarding oil use and timing to change.

The Vanguard Commercial V-Twin engine used with each *VORTEC CANNON* high-powered vacuum has an *Oil Pressure Switch* which will prevent the engine from starting when oil is low. To ensure long engine life and avoid the inconvenience of not being able to start, check oil prior to each use and ensure oil is fill to the upper limit.

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### System Set-Up:

1. Periodically check all fasteners for tightness. Due to the natural vibration associated with vacuums, some fasteners may become loose over time.
2. Obtain appropriate protective equipment.
3. Set system on a dry, level surface.  
*Note: The incline position of the engine should not exceed 20 degrees in any direction. If it does, oil can mix with the gas causing harm to the engine.*
4. Attached vacuum hose to the inlet pipe using a hose clamp.  
*Note: It is highly recommended to use a VORTEC vacSHIELD when using the VORTEC CANNON. Install the vacuum hose to the inlet of the vacSHIELD. Then, connect a piece of vacuum hose from the vacSHIELD's outlet to the vacuum's inlet (you can cut a short section from your main vacuum hose, or purchase a short section of hose to meet this need).*
5. Attach hose or vacuum bag to the machine's outlet using a hose clamp.



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### System Operation:

1. Review Vanguard's engine manual prior to starting the engine to review safety and operation procedures.
2. Remember when stopping engine, slow engine and let idle for a few minutes prior to stopping. This shut-down methodology is good for your engine. ***Please avoid shutting the engine from a state of fast throttle (and associated high operation speeds) to off.***

3. Hour meter operation – Please reference Tiny Tach’s on-line instructions at <http://tinytach.com/installation-gas.php>.

## *Maintenance*

Preventative maintenance will provide for many years of trouble-free use.

### Cleaning

**Clean the exterior of the machine weekly** by wiping with a rag and/or blowing with compressed air; this will help maintain the longevity of the mechanical components in addition to the system’s finish. It is important to keep the engine clean so it will cool appropriately.

Clean the engine’s inlet air filter prior to each use if dirty. The filter can be washed and is easily replaceable.



### Engine Oil Changes

Reference Vanguard’s engine manual for recommended oil at typical operating temperatures in your area & suggested oil change intervals.

### Air Filter Cleaning & Replacement

Reference Vanguard’s engine manual for recommended air filter cleaning and replacement schedule.

## TroubleShooting

<i><b>Problem</b></i>	<i><b>Likely Cause</b></i>	<i><b>Remedy</b></i>
Vacuum on, yet limited production of fibrous insulation.	Throttle speed in idle mode.	Increase throttle speed. Note: throttle does not need to be a full speed for effective vacuuming.
	Kink in hose.	Review your hose assembly to ensure no kinks in hose.
	Small diameter hose used on system's inlet.	Utilize the largest diameter hose the system will allow. Utilize largest diameter hose for the longest length possible from the vacuum to the point of material pick-up.
White smoke coming from exhaust.	Engine tilted over 20 degrees and oil entered carburetor.	Run engine until oil burns out of carburetor.
Static Electricity shocking operators.	Movement of insulation material thru hose – more pronounced during times of low humidity – creates static electricity build-up in vacuum hose.	Contact Intec technical service at 800-666-1611. Options include: -Spraying warm water on hose. -Grounding hose to dissipate static electricity.

## Specifications

Weight	270 lbs; 123 kg
Wheels	10" diameter run-flat
Engine	Vanguard Commercial 18hp - 570cc V-Twin <ul style="list-style-type: none"> <li>• Electric start V-Twin</li> <li>• Extra quiet muffler</li> <li>• Hour meter</li> <li>• Oil Pressure Switch</li> </ul>
Gas Tank Size	6.95 quarts

## Dimensions



## Electrical Drawings

See Vanguard's manual

## Parts and Accessories

Description	Part Number	Quantity
16" Impeller 1/4" thick abrasive resistant steel for long life	74107-16	1
Engine inlet air filter	74318-74	1
Engine inlet air filter screen	74318-76	1

## Vacuum Accessories

Description	Part Number	Quantity
VORTEC vacTUBE 4.4 4" diameter, 4' long pick up tube	74106-00	1
VORTEC vacTUBE 4.2 4" diameter, 2' long pick up tube	74126-00	1
VORTEC vacTUBE 6.4 6" diameter, 4' long pick up tube	74108-00	1
VORTEC vacTUBE 6.2 6" diameter, 2' long pick up tube	74128-00	1
VORTEC vacSHIELD	74660-00	1
Vacuum Bags <i>Platinum &amp; Better</i>	74004 Black 74004 Platinum 74004 Better 74004 Standard	10 bags per case
Numerous Hose Packages featuring long lasting <b>VORTEC vacTUFF™</b> hose to enhance your savings	various	Call Intec 303-833-6644

## Making a Claim for Damage or Loss

Your Intec products were carefully packed and thoroughly inspected before leaving our factory. We understand that damage to or defects with your system may unfortunately occur. Please inspect your shipment carefully upon arrival and save the shipping containers and packaging materials in case of damage.

The following table provides you with appropriate actions to take when certain issues are realized.

<b>ISSUE</b>	<b>Action to Take</b>
<p><b>1</b> <i><b>DAMAGE in Transit</b></i></p> <p>A Visible <b>PRIOR</b> to unpacking (Damage to carton or packing material).</p> <p>B Visible <b>AFTER</b> unpacking (Only apparent when unpacked).</p> <p>C Shortage (# containers does not agree to transportation bill).</p> <p>When items leave our warehouse, the shipper assumes responsibility. It is the responsibility of the consignee to file a claim. Proper documentation is necessary to support the claim. Please inspect all items properly prior to signing for them.</p>	<p>File Claim with appropriate freight carrier.</p> <p>File Claim with appropriate freight carrier.</p> <p>File Claim with appropriate freight carrier.</p>
<p><b>2</b> <i><b>Items received not correct</b></i></p> <p>A Incorrect items received.</p> <p>B Incomplete order received (not backordered).</p>	<p>Contact Intec Customer Service</p> <p>Contact Intec Customer Service <b>303.833.6644</b> <b>info@inteccorp.com</b></p>
<p><b>3</b> <i><b>Issue within the warranty period</b></i></p> <p>A Troubleshooting (machine or part not operating as intended).</p> <p>B Replacement part(s).</p> <p>Intec can assist with troubleshooting your issue, and can get you back up and running. If warranty parts are required, a return material authorization (RMA) will be issued by technical service.</p>	<p>Contact Intec Customer Service</p> <p>Contact Intec Customer Service <b>303.833.6644</b> or <b>info@inteccorp.com</b></p>
<p><b>4</b> <i><b>Issue outside of warranty period</b></i></p> <p>A Replacement part, troubleshooting.</p> <p>B Need assistance from a service center.</p>	<p>Contact Intec Customer Service</p> <p>Contact Intec Customer Service <b>303.833.6644</b></p>

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## Warranty

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It is expressly understood and agreed that no officer, agent, salesman or employee of Intec (MANUFACTURER) has the authority to obligate the MANUFACTURER by any terms, stipulations, or conditions not herein expressed; that all previous representations and agreements, either verbal or written, referring to the machinery and equipment, which is the subject of this Warranty, are hereby superseded and canceled, and that there are no promises or agreements outside of the Warranty agreement. Furthermore, the MANUFACTURER hereby disclaims any implied warranties of merchantability, or implied warranties of fitness for a particular purpose.

With the above understanding, MANUFACTURER provides the following one (1) Year Limited Warranty, and no other, for its VORTEC CANNON branded vacuum machine (MACHINE). Note that VANGUARD provides a three (3) Year Warranty (see VANGUARD manual for details on the engine (ENGINE)).

a) MANUFACTURER warrants to the original purchaser that the MACHINE & ENGINE is well made, of good material and durable; but only if the MACHINE & ENGINE is operated and maintained in accordance with the MANUFACTURER's and VANGUARD's Instruction Manuals. This Warranty is void if the MACHINE & ENGINE is not so operated and maintained, or if the MACHINE & ENGINE is used for vacuuming materials other than loose fill fiberglass, cellulose, and stonewool (i.e. rockwool) – i.e. loose fill fibrous insulation which are the materials which are intended to be used with the MACHINE & ENGINE.

b) MANUFACTURER guarantees the MACHINE to be free from manufacturing defects at the time of shipment, and to remain free from defects when operated under normal use, for a period of one (1) year from the date of factory shipment.

c) This Warranty shall not apply to any MACHINE, ENGINE, or component part which, in the opinion of the MANUFACTURER or VANGUARD, has been altered, subject to misuse, negligence, accident, shows signs of typical wear, or operated beyond factory rated capacity. Some, yet not all, examples of items not covered by warranty are the following:

- Impeller wear – over time the coarse nature of the insulation will wear the impeller.
- Shroud wear – over time the coarse nature of the insulation will wear the shroud.
- If a user vacuums up foreign materials with examples being: brick, conduit, metal, stone, wood, or other non-loose fill insulation materials (FOREIGN MATERIALS). These FOREIGN MATERIALS may cause damage to the impeller, shroud, ENGINE, and MACHINE. Note: it is highly recommended to use a vacSHIELD to reduce / eliminate the potential for FOREIGN MATERIALS from negatively impacting the MACHINE or ENGINE.
- If vacuum is dropped causing wheel, axle, frame, or engine damage.

d) All requested Warranty work should be performed at MANUFACTURER's factory or by an Authorized Factory Service Facility. Failure to have the Warranty work done at MANUFACTURER'S factory or by an Authorized Factory Service Facility will void this Warranty. MANUFACTURER will bear full responsibility to repair or replace, at its option, without charge to the original purchaser, any part that, in the MANUFACTURER'S opinion, is found to be defective.

e) All parts claimed defective by original purchaser shall be returned, properly identified, to MANUFACTURER's factory or Authorized Factory Service facility, freight prepaid. All replacement, repaired or non-defective parts will be returned to purchaser, freight collect. MANUFACTURER will supply replacement parts prior to purchaser, freight collect. MANUFACTURER will supply replacement parts prior to receipt of any parts claimed defective, only with the understanding that such replacement parts will be shipped to purchaser at the then prevailing price of said part, C.O.D., freight collect. MANUFACTURER will reimburse cost of any such part only after receipt and inspection, and finding said part defective.

f) MANUFACTURER's liability is expressly limited to the repair or replacement of defective parts set forth in this Warranty. All other damages and warranties, statutory or otherwise, being waived are original purchaser as a condition of sale and purchase of said machines. Furthermore, the MANUFACTURER shall not be liable for damages or delays caused by defective material or workmanship.

*this Warranty supersedes all prior versions*