







## Instruction Manual

Insulation blowing machine Original Language - English

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Rev Date: 20151012





## Introduction

Thank you for purchasing Intec's VORTEC 200<sup>™</sup>, VORTEC 200 flex, VORTEC 390<sup>™</sup>, VORTEC 660<sup>™</sup>, VORTEC 690<sup>TM</sup>, PATRIOT, or BEAST high powered vacuum system powered by HONDA. Users ranging from Rental stores to Professional contractors will increase their Return-On-Investment when using these heavy duty systems for insulation recycling, removal, and for HVAC cleaning applications. The VORTEC 200 flex provides additional uses in lawn & garden & gutter cleaning. The innovative design and engineering of Intec's VORTEC series of vacuums provides you with a high powered system that has exceptionally high productivity, while safeguarding your investment with built-in features to ensure for a long-lasting return that provides for 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!



Ray Lavallee President, Intec



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## **Symbols**

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

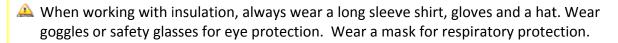


**I** DO NOT place hands or body parts in inlet or outlet pipes during operation.

★ Read and understand Honda's 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 where people may be present. If running vacuum in truck or trailer (or any partially closed area), vent the exhaust outside.
- 📤 Keep the engine at least 3 feet (1 meter) away from buildings & other equipment during operation. Always make sure the exhaust is away from flammable surfaces.
- 📤 Keep flammable materials away, and do not place anything on the engine while it is running.
- 📤 Never operate equipment without safety guards, front plate, heat shield (for turbovac690 only), or outlet section in place.
- Keep away from vacuum's inlet or outlet when machine is running.
- $oldsymbol{\pm}$  Never position the outlet in a direction that can harm people or buildings if a foreign material were to exit at high speed.





- Keep tools and foreign objects out of the hopper.
- A Never leave the machine unattended during operation.
- Do not touch exhaust system during or immediately after use.
- A Have available an appropriately sized, working fire extinguisher in the event of need.



## How the System Works

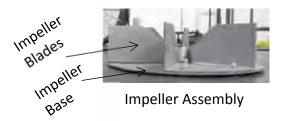
**OVERVIEW:** Intec's VORTEC impeller creates a powerful vacuum that pulls large volumes of air / product into the inlet. The air / product is centrifugally dispersed into the vacuum's shroud and discharged thru the outlet. A removable & reversible handle is attached to simplify portability and storage.

- Intec's VORTEC 200 & VORTEC 200 flex these systems have a 3.3 quart integral gas tank, powered by HONDA's GX200 motor with standard HONDA exhaust.
- Intec's VORTEC 390 this system has a 1.6 gallon integral gas tank, powered by HONDA's GX390 motor with standard HONDA exhaust.
- Intec's VORTEC 660, 690, PATRIOT, & Beast These systems have a 5 gallon gas tank, powered by HONDA's V-Twin motor with an extra quiet exhaust system.

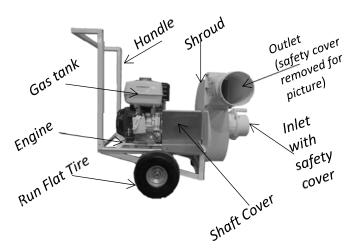
An introduction to key components of the systems follow:

POWERED by HONDA: HONDA engines power Intec's VORTEC high-powered vacuums. Electric start is standard with HONDA's V-Twin; optional with Intec's VORTEC 390; not available with Intec's VORTEC 200 & 200 flex.

**Impeller:** The impeller is comprised of a base, blades, and some impellers have a top. Together, the impeller assembly spins at very high rates (2500 to 3600 rpms during typical operation) creating a vacuum due to the centrifugal forces created.



Inlet Tube: The inlet tube is user configurable to 6 inches or 4 inches for Intec's VORTEC 200, 200 flex, & 390 series; 6 or 8 inches for Intec's VORTEC 660, 690, PATRIOT, or BEAST.







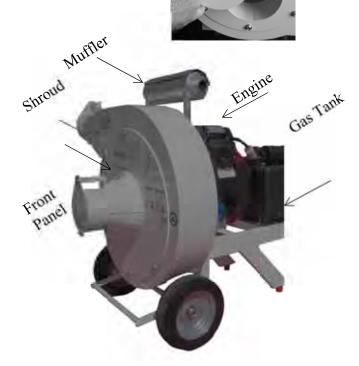
Safety Shield: The safety shield prevents users from placing their hand or a foreign object into the inlet or outlet. This shield swivels out of the way to allow for easy hose connection.

Front Panel: This panel allows access to the impeller assembly.

**Shroud:** The shroud is made of thick gauge steel. The VORTEC 660, 690, PATRIOT, & BEAST have a double steel wall; all others have a sacrificial liner to reduce shroud wear.

Outlet: The 6" outlet section for the VORTEC 200, 200 flex, & 390 can easily be removed to allow for replacement of the shroud's wear liner.

Handle: The handle is reversible and removable allowing for options that may assist in usage and / or storage.



Note: Actual system may have slight differences from pictures.



**Shaft Cover:** The shaft cover protects the user from the engine shaft and hub assembly. This cover can be easily removed if a replacement break-away coupler is required on the VORTEC390 or 200.

Direct Drive: The VORTEC 660, 690, PATRIOT, & BEAST are direct drive with the impeller mounted directly to the oversized engine shaft.

#### PICTURES UNIQUE TO THE VORTEC 200 flex

The VORTEC 200 *flex*'s shroud can be rotated to enable lawn & garden use. The following pictures will depict how to use this system in various applications.

Safety: The VORTEC 200 *flex* has two electronic safety switches – each needs to be engaged (i.e. pushed in fully) for the motor to operate.









**Inlet Safety Switch** 

When selecting the desired inlet & outlet, ensure that assembly of the mating piece pushes the safety switch in to allow for electrical connection.

1. Configuration – Gutter Cleaning, Insulation Removal, or Yard Leaf pick-up: Configuration is as depicted in picture V2f-1. A vacuum hose is attached to the inlet, and a vacuum bag or hose with bag is attached to the outlet.

Gutter cleaning – Use the gutter cleaning kit which is comprised of an extendable pole, curved top piece to allow for vacuum to remove items in the gutter, and various hoses and vacuum bag to allow for movement of product into the hose bag.







### 2. Leaf /Sidewalk / Street Cleaning - Blowing *Inlet Configuration*

Place the inlet with bars to allow for air to enter the impeller freely, while providing user safety.

2Ia: Remove the inlet pipe with safety cover attached by hand turning the four fasteners.

21b: Place the grate inlet in the four guiding bolts.

2Ic: Replace the four fasteners and hand tighten.





#### **Outlet Configuration**

20a. Remove the pin by pulling in the direction of the wire.

20b. Swivel the Outlet Holder up.

20c. Remove the outlet assembly with the circular pipe and safety flap.

20d. Insert the rectangular outlet upside down by pushing the bottom section in the grove, then rotate the top towards the Outlet Safety Switch.

20e. Rotate the Outlet Holder back down into place.

20f. Secure with pin.

20g. Pull the Rotating Knob out, and pull the outlet into position.

20h. Move the outlet to one of the clicks to hold in the blowing direction. Ensure that the rotating know clicks into place to prevent self-adjustment during VORTEC 200 flex movement.

20i. Place curved outlet as desired to allow for blowing of items slightly forward. Beneficial when by a curb or wall.



20a



















## Set up and Operation

Please note that systems may ship without oil in the engine. Prior to your first start, check engine oil and fill with oil if required. Intec will fill with oil to test your vacuum prior to shipment. Refer to HONDA's engine manual for recommended oil.

The HONDA GX200, 200 flex, GX390, GX660, & GX690 engines used with Intec's VORTEC high-powered vacuums have an Oil Alert System. The Oil Alert System will automatically stop the engine before the oil level falls below the safe limit. However, to avoid the inconvenience of an unexpected shutdown, fill to the upper limit, and check the oil level regularly.

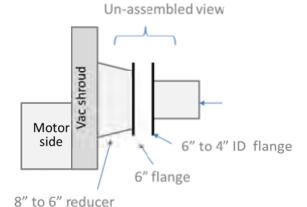
#### System Set-Up:

- 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 will mix with gas in the carbaretur causing blue smoke.

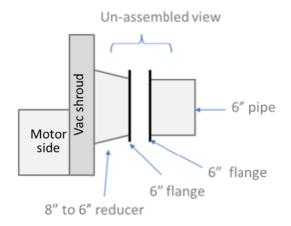
4. Configure the inlet to the desired diameter of hose that you will be utilizing.

Example 1: Intec's VORTEC 200, 200 flex, or 390 with 4" inlet desired

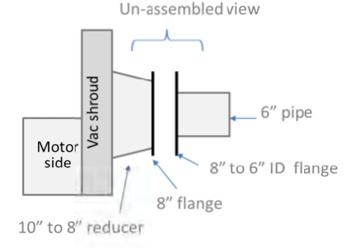




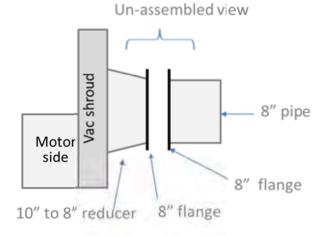
Example 2: Intec's VORTEC 200, 200 flex, or 390 with 6" inlet desired



Example 3: Intec's VORTEC 660, 690, PATRIOT, & BEAST with  $6^{\prime\prime}$  inlet desired



Example 4: Intec's VORTEC 660, 690, PATRIOT, & BEAST with 8" inlet desired





- 5. Attach vacuum hose to the inlet pipe using a hose clamp.
  - a. Note: Slide the safety shield to either side to move out of the way when placing hose on inlet.
  - b. Note: Hose clamp is optional as the vacuum effect will keep the hose on the inlet.
- 6. Attach vacuum hose or vacuum bag to the machine's outlet.
  - a. Note: Slide the safety shield to either side to move out of the way when placing hose or vacuum bag on outlet.

#### **System Operation:**

- 1. Review HONDA's engine manual prior to starting the engine to review safety and operation procedures.
- 2. Due to the load on the system upon start-up, recommendation is to use the choke irrelevant if first start of the day or if engine is already warm. Using the choke will alter the fuel / air mixture and provide appropriate power to start engine. Shut choke once no longer required.
- 3. Stopping System When stopping engine, slow engine and let idle for a few minutes prior to stopping. Recommended procedure is to lower throttle to medium and wait for 3-5 seconds. Then reduce throttle to slow and wait for 3-5 seconds. Then turn ignition off. 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.
- 4. Hour meter operation
  - a. Reference HONDA's engine manual for the meter used on Intec's VORTEC 660, 690, PATRIOT, & BEAST.
  - b. Intec's VORTEC 200, 200 flex, and 390 tachometer and hour meter operation follows:





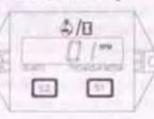
## Tachometer and Hour Meter

INTRODUCTION: THE ENGINE MONITOR is a self powered LCD Hour meter. Tachometer and Maintenance Meter. An Internal lithium battery furnishes the power for the monitor. A wire around the spark plug wire of the engine provides both a tachometer signal an indicator that the engine is running. The maintenance meter is used to alert maintenance personnel that a time interval has expired and maintenance should be performed on the engine. Before changing any settings to the ENGINE MONITOR, ensure that the engine is off.

INSTALLATION Unpack and attach the unit to a location where it can be easily read. Wrap 3 or 4 turns of the wire around the engine's spark plug wire. The LCD will display the accumulated hours on the hour meter and HOURS icon.

#### TO SET THE TACHOMETER (SPARK PLUG FIRING REVOLUTION):

Press and hold the S1 button for 4 seconds. The LCD will display 01 (spark plug fires twice per revolution), 02(once per revolution), 03(every other revolution). 04(hour only, will not display RPM). Once you find your desired spark plug firing pattern, release the S1 button. The LCD will blink for 8 to 10 seconds and return to total hour meter mode. The default for the standard model is 02(once per revolution).



#### TO SET THE MAINTENANCE INTERVAL TIMER:

Press and hold down the S2 button for 4 seconds. The right most digit on the LCD will flash and the SERVICE icon will be displayed. Pressing and holding the S1 button will cause the flashing digit to automatically increment When the desired number has been reached release the S1 button and press the S2 button for 1 second to increment to the next digit. Repeat above steps until the service time interval has been entered. After 14-16 seconds, no buttons pressed, the LCD display will return to total hours mode.





#### ACTIVATING THE MAINTENANCE INTERVAL TIMER:

Press and hold the S1 and S2 button simultaneously for 4 seconds. The two digits will increment to 09 seconds and then return to total hours mode. When the engine is running and the maintenance time has reached zero, the service icon will come on

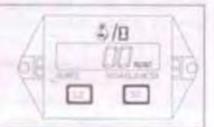


#### VIEWING MAINTENANCE INTERVAL:

Press and hold the S2 button for 4 seconds to view remaining time of your maintenance interval. To continue current maintenance do nothing. If you would like to start a new maintenance interval repeat steps 4 and 5 again. Each time you want to view the remaining time of your maintenance press and hold \$2.

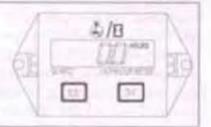
#### RESETTING THE SERVICE ICON:

Press and hold the S1 and S2 buttons for 20. seconds. The service icon will shut off. The maintenance time will automatically default to the number previously programmed.



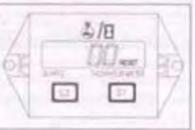
#### TO DISPLAY HOURS ONLY:

Press and hold the S1 button until 04 is displayed. Release the S1 Button and the display returns to total hours after 8 to 10 seconds. When the engine is running the display will show hours only, no RPM and the Hour Icon will blink



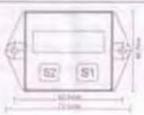
#### TO RESET TOTAL HOURS AND MAINTENANCE TIME:

Press and hold the S1 button until 05 is displayed. Release the S1 button and after 8 seconds the display will return to total hours. Press and hold S1 and S2 simultaneously for 20 seconds and the meter will perform a total reset.











#### Maintenance

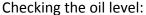
Preventative maintenance will provide for many years of trouble-free use.

#### 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.

#### **Engine Oil Changes**

Reference HONDA's engine manual for recommended oil & suggested oil change intervals.







Dipstick for 660 & 690; fill cap

Oil level should be checked before each use. Engine oil should be changed out after the first 20 hours and then every 100 hours (Or 6 months) after that.

### Air Filter Cleaning & Replacement

Reference HONDA's engine manual for recommended air filter cleaning and replacement schedule.

The areas below, as shown in the photos, should be cleaned on a weekly basis. Failure to do so can cause overheating of the engine, as well as other preventable damage. If equipped with an air cleaner, it should be cleaned every 100 hours and replaced every 300 hours. Using compressed air is an effective method of removing dust and debris from the motor.





### **Dust particles**

HONDA engines are made to work in demanding conditions. This said, the operator should limit the amount of fibrous particles from the HONDA engine area. Cellulose, fiberglass, or stonewool entering the engine cooling fan will gather over time and limit the engine's effectiveness in cooling itself.

#### Wear Liner

The Intec's VORTEC wear liner – VORTEC 200, 200 flex, and 390 -- adds years to the vacuum's shroud life since typical wear points are absorbed by the replaceable liner. The following six steps show how to install the wear liner.



Liner ready to be inserted



Liner pushed against upper section of vacuum housing. The inserted into vacuum.



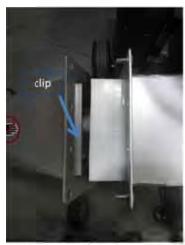


Liner in latched position



Liner at outlet position when fully inserted





Outlet Tube being re-assembled with clip to support and push liner into final position.





Clip in position - simply push to close.

### **Check Fasteners**

Periodically check all fasteners for tightness. Due to the natural vibration associated with vacuums, some fasteners may become loose over time.



# TroubleShooting

Problem	Likely Cause	Remedy
Vacuum on, yet limited production of fibrous insulation.	Throttle speed in idle mode.	Increase throttle speed.
	Kink in hose.	Review your hose assembly to
		ensure no kinks in hose.
	Foreign object clogging baffle system – either fully or partially.	Turn engine off.
		Remove hose on inlet.
		Clean foreign materials from
		baffle. (If desire to remove
		baffle, see system set-up to
		open inlet flange system,
		remove baffle, and fasten inlet
		back onto system.)
	Small diameter hose used on	Utilize the largest diameter hose
	system's inlet.	the system will allow. Utilize
		largest diameter hose for the
		longest length possible from the vacuum to the point of material
		pick-up.
Motor spinning, yet impeller not	Break-away coupler needs	Refer to Intec's technical manual
spinning.	replacement.	to replace break-away coupler.
	·	Call Intec at 800-666-1611 ext:
		130 or visit www.inteccorp.com
Static Electricity shocking	Movement of insulation material	Contact Intec technical service
operators	thru hose – more pronounced	at 800-666-1611. Options
	during times of low humidity –	include:
	creates static electricity build-up	- Spraying warm water on
	in vacuum hose.	hose.
		- Grounding hose to
		dissipate static
		electricity.



# Specifications

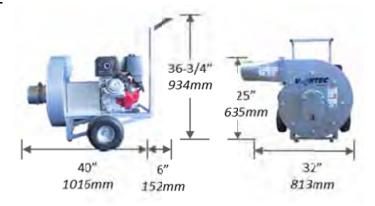
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Weight	
Intec's VORTEC 200	138 lbs; 63 kg
Intec's VORTEC 390	278 lbs; 126 kg
Intec's VORTEC 660, 690, & PATRIOT	362 lbs; 165 kg
Intec's VORTEC Beast	362 lbs; 165 kg
Wheels	10" diameter run-flat
Engine	
Intec's VORTEC 200	HONDA GX200 with 3/4" shaft
	<ul> <li>Manual start standard</li> </ul>
	<ul> <li>Hour meter – after market</li> </ul>
	<ul> <li>Oil Alert System (engine shutdown)</li> </ul>
	Dual element air cleaner
Intec's VORTEC 390	HONDA GX390 with 1.0" shaft
	Manual start standard
	Electric start optional
	Hour meter
	Oil Alert System (engine shutdown)
	Dual element air cleaner
Intec's VORTEC 660, 690, PATRIOT, BEAST	HONDA GX660 or 690 with 1.125" or 1.438" shaft
	Electric start V-Twin
	Extra quiet muffler
	Hour meter
	<ul><li>Oil Alert System (engine shutdown)</li></ul>
	Dual element air cleaner
Gas Tank Size	• Dual element air cleaner
Intec's VORTEC 200	2.2 quarte
	3.3 quarts
Intec's VORTEC 660, 600, DATRIOT, REAST	1.6 gallons
Intec's VORTEC 660, 690, PATRIOT, BEAST	5 gallons



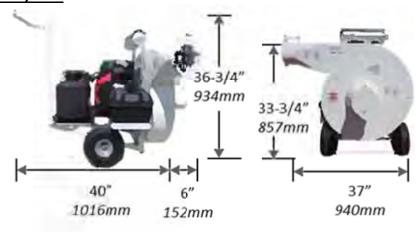
### Intec's VORTEC 200 & 200 flex



## Intec's VORTEC 390



### Intec's VORTEC 660, 690



## **Electrical Drawings**

See HONDA'S manual page 19.



## Parts and Accessories

For Honda certified parts, please contact Intec at 1-800-666-1611. We can refer you to a certified Honda repair facility.

## 660, 690, PATRIOT, BEAST Parts

Description	Part Number	Quantity
5 GALLON GAS TANK	74621-00	1
MUFFLER KIT	74622-10	1
GAS TANK HOLD DOWN STRAP	74023-00	2
BATTERY CABLE, RED	74015-00	1
BATTERY CABLE, BLACK	74016-00	1
WHEEL, FLAT FREE	40381-00	2
GAS TANK GROMMET	74205-00	1
VACUUM IMPELLER ASSEMBLY	74106-00	1

## 390 Parts

Description	Part Number	Quantity
HUB BEARING ASSEMBLY	74100-00	1
BATTERY CABLE, RED	74015-00	1
BATTERY CABLE, BLACK	74016-00	1
WHEEL, FLAT FREE	40381-00	2
WEAR LINER, PLASTIC	74323-01	1
VACUUM IMPELLER ASSEMBLY	74107-00	1

## Vacuum Accessories

Description	Part Number	Quantity
VORTEC vacTUBE 4.4 – 4"	32095	1
diameter pick up tube		
VORTEC vacTUBE 6.4 – 6"	74108-00	1
diameter pick up tube		
VORTEC vacSHIELD with 6" inlet	74660-00	1
& outlet		
Vacuum Bags	74004-00	5 per bundle



## 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.

**ISSUE Action to Take** 

1	DAMAGE in Transit			
	A Visible <b>PRIOR</b> to unpacking (Damage to carton or	File Claim with appropriate freight		
	packing material).	carrier.		
	B Visible <b>AFTER</b> unpacking (Only apparent when	File Claim with appropriate freight		
	unpacked).	carrier.		
	C Shortage (# containers does not agree to	File Claim with appropriate freight		
	transportation bill).	carrier.		
	When items leave our warehouse, the shipper assumes responsibility. It is the responsibility			
	of the consignee to file a claim. Proper documentation i	s necessary to support the claim.		
	Please inspect all items properly prior to signing for them.			
2	Items received not correct			
	A Incorrect items received.	Contact Intec Customer Service		
	B Incomplete order received (not backordered).	Contact Intec Customer Service		
		303.833.6644 ext. 101		
		info@inteccorp.com		
3	Issue within the warranty period			
	A Troubleshooting (machine or part not operating as	Contact Intec Customer Service		
	intended).			
	B Replacement part(s).	Contact Intec Customer Service		
	Intec can assist with troubleshooting your issue, and	303.833.6644 ext. 107		
	can get you back up and running. If warranty parts are	or		
	required, a return material authorization (RMA) will be	info@inteccorp.com		
	issued by technical service.			
4	Issue outside of warranty period			
	A Replacement part, troubleshooting.	Contact Intec Customer Service		
	B Need assistance from a service center.	Contact Intec Customer Service		
		303.833.6644 ext. 107		
Ch:	nning Donartmont nhono: 20	12 022 6644 000 666 1611		

**Shipping Department** 

4040 Kodiak Court Frederick, CO 80504 phone: 303-833-6644, 800-666-1611

fax: 303-833-6650

email: info@inteccorp.com website: www.inteccorp.com



## Warranty

It is expressly understood and agreed that no officer, agent, salesman or employee of the manufacturer 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, the MANUFACTURER provides the following three (1) Year Limited Warranty, and no other, for its high-powered vacuum machines (MACHINE):

- a) MANUFACTURER warrants to the original purchaser that the MACHINE is well made, of good material and durable; but only if the MACHINE is operated and maintained in accordance with the Instruction Manual. This Warranty is void if the MACHINE is not so operated and maintained, or if the MACHINE is used for vacuuming materials other than those which are intended to be used with the MACHINE.
- 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. Honda warrants the engine for three (3) years.
- c) This Warranty shall not apply to any MACHINE or component part which, in the opinion of the MANUFACTURER, has been altered, subject to misuse, negligence, accident, shows signs of typical wear, or operated beyond factory rated capacity. The wear liner, coupler, and impeller are three examples of items that may exhibit 'typical wear' - other examples may exist. 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.
- d) 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.
- e) 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.