



KEEP HANDS OUT OF HOPPER

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Intec appreciates your business

Thank you for purchasing an Intec insulation system. 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. We take pride in making your job as easy and profitable as possible.

The right system for your needs: Intec strives to provide you with the best combination of portability, functionality, and installation versatility to surpass your desired success. From lightweight polyethylene units with removable hoppers, to larger units with increased production rates and installation versatility, all of our durable systems are made to maximize your profit generating potential.

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. In addition to blowing machines, Intec produces a range of accessories that will increase your productivity when dense packing, damp spraying, and installing net and blow.

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

Ray Lavallee President



When working with insulation, always wear a long sleeve shirt, gloves, a hat, goggles or safety glasses for eye protection. Use 3M brand #8710 nose/mouth dust mask or a Niosh N95 (or equivalent) for respiratory protection. Safety rules:

- Do not operate the machine without the hopper firmly attached to the base.
- Always use the supplied extension cord with this machine at all times.
- Never reach into the hopper while operating.
- Rotating agitator blades can cause severe injury. Stop all motors and disconnect the extension cord before attempting to remove any foreign object or jam.
- Never operate this equipment if the operator or the machine is in standing water, snow or rain.
- Never point insulation hose in the direction of people or pets.
- Do not operate this equipment when minors are present or leave unattended. Always disconnect power from machine before leaving unattended.

SYMBOLS

The following signal words and meanings are intended to explain the levels of risk associated with the use of product.

MEANING **SIGNAL SYMBOL**



DANGER: Indicates an immediate hazardous situation which, if not avoided, could 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.

SERVICE:

Servicing requires extreme care and knowledge and should be performed only by a qualified service technician. For service we suggest you return the product to the nearest AUTHORIZED SERVICE CENTER for repair. When servicing, use only original equipment replacement parts.

WARNING:

To avoid personal injury, do not attempt to operate this equipment until you thoroughly read and completely understand the operator's manual. Save this operator's manual and review for continuing safe operation and instructing others who may operate this equipment.



WARNING:

Observe all normal safety precautions related to avoid electrical shock.



WARNING:

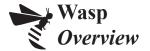


The operation of any products can result in foreign objects being thrown into your eyes, which can result in severe eye damage. Before beginning operation, always wear safety goggles or safety glasses with side shields and a full face shield when needed. We recommend Wide Vision Safety Mask for use over eyeglasses or standard safety glasses with side shields. Always wear eye protection which is marked to comply with ANSI Z87.1.



Height	44"
Width	31-1/2"
Length	32-3/4"
Weight	
Hopper Capacity	11 cu. ft.
Hose Size	
Blowers (2)	101 CFM x 2 = 202 CFM @ 3.2 PSI
Agitator Motor	1-1/2 hp
Gearbox	
Airlock	
Electric	(2)-115V/20 amp 60Hz
Agitator	Vertical style
Wheels	8"
Warranty	90 days limited on electric, blower and airlock system.
31-1/2"	27" 44" 17"

Specifications are subject to change without notice.



Three subsystems make up your Wasp:

THE AGITATOR AND AIRLOCK

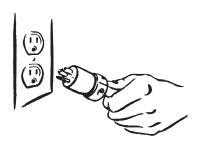
The Wasp runs on a 1-1/2 horsepower motor driving an enclosed gearbox. The airlock positions the material for proper distribution by the blower.

THE BLOWER MOTOR

Your Wasp is equipped with two 101 CFM two-stage blower motors to push the material through the hose and into the attic with optimum pressure and output. The blower is connected to the air intake port of the airlock by a hose.

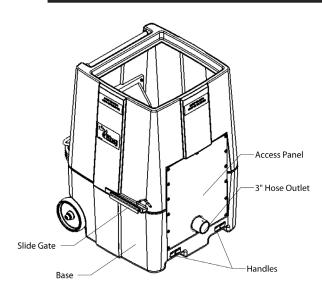
ELECTRICAL COMPONENTS

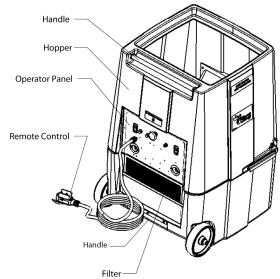
We recommend two dedicated 20 amp grounded outlets to run your Wasp. Less amperage will possibly trip circuit breakers due to variances in amperage while running the machine. Always disconnect the power source before beginning any maintenance. And as with all electrical systems, never attempt to operate your Wasp with either the operator or the machine standing in water.

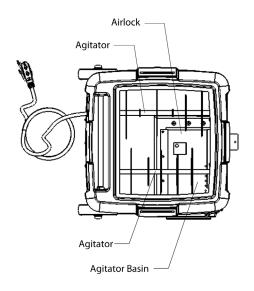


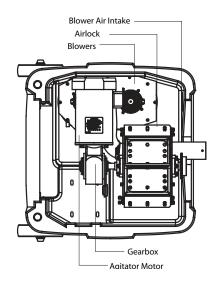
- A. Hopper: upper component of the Wasp where insulation is loaded.
- B. Base: lower component of the Wasp houses power components, blower and airlock.
- C. Slide gate: increases or decreases the amount of material entering the airlock.
- D. Electrical: on/off function of both the blower and agitator motor.













HOPPER: upper component of the machine that holds insulation material.

BASE: lower component of machine which houses the power transmission components, agitator motor, gearbox, airlock, blowers and filter.

FILTER: filters out the dirty air and protects the motors. It is located below the electrical panel.

AGITATOR/AIRLOCK: works in combination to break up the material and condition it while feeding a pre-determined amount of material into the air stream of the blower.

BLOWER MOTOR: provides the air make up to propel the material through the hose. The WASP has two blowers which are recessed into the base and pull fresh air within the double wall of the base. Blowers cannot be run independently.

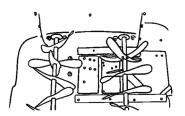
SLIDE GATE: controls the material flow into the airlock by the means of increasing or decreasing the open area to the airlock.

AGITATOR MOTOR/GEARBOX: 1-1/2 hp motor in combination with the worm drive gearbox create the necessary horse power and torque to drive the airlock and agitation system.

ELECTRICAL: input voltage, 115VAC, control voltage, 24VAC. Houses the contactors, transformer, variable speed and all other control components to operate the Wasp.

REMOTE CONTROL: is designed to be operated either from the ground or may be controlled from a remote control cord which is permanently mounted by 100' control cord.

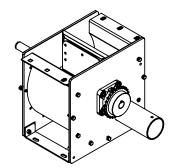
EMERGENCY STOP BUTTON: allows the ground operator to shut off the machine in the case of an emergency.



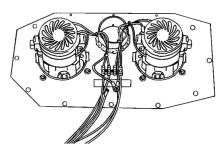
AGITATORS



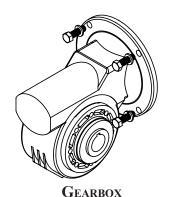
AGITATOR MOTOR



AIRLOCK



BLOWERS



AGITATORS

The agitation system expands and conditions the insulation to an optimum density, then sweeps the material into the airlock for distribution through the hose.

AGITATOR MOTOR

The agitator motor is coupled to the gearbox which in turn drives both the airlock and agitation system. No maintenance is required.

AIRLOCK

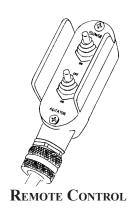
The airlock moves the conditioned material from the agitator system into the air stream. Located within the airlock are 6 airlock seals which are made of urethane material. These seals are a wear item and should be inspected at least every 300 hours of operation for tears, cuts and wear. If the seals are torn, cut or worn, performance of the machine will be decreased.

BLOWERS

The WASP comes standard with two blowers which produce 202 CFM @ 3.2 PSI. Both blowers operate on the same power cord as well as being controlled by the same variable speed blower control.

GEARBOX

The gearbox is a vent-free design and is permanently greased with a synthetic semi-fluid grease for a lifetime lubrication with a wide operation temperature range of (+5F°-220F°). In addition, the gearbox drives the airlock and agitation system which is coupled by a chain drive. A periodic inspection of the agitator chain alignment and tension is strongly recommended.



REMOTE CONTROL

The remote control cord is permanently attached to the electrical panel. The remote cord is 100' (std.) or 150' (opt.) and allows the operator in the attic to control the on/off function of the machine. Both the agitator and blower switches can be independently operated from the remote control. The remote cord will not operate unless the main electrical panel switches/circuit breakers are in the "on" position.

ELECTRICAL CONNECTIONS

The WASP needs two separate electrical outlets for operation. It is strongly recommended that you use a grounded 20-amp service for each extension cord. The Wasp machine comes with (2) 10/3 twist lock power cords. If you require a longer extension cord than 100' consult distributor or INTEC. Never attempt to operate this machine without a ground, bodily injury may occur!

STARTING

Operation from the ground: To operate the machine at the electrical panel, the remote switches must be in the "on" position. Operator at the ground can use the main electrical switches to operate the "on-off" function of both the agitator and blower motors

Operation from the Attic: To operate the machine in the attic, both the agitator and blower switches must be in the "on" position at the main electrical panel. Operator in the attic can use the remote control to operate the "on-off" function of both agitator and blower motors.



BLOWING HOSE

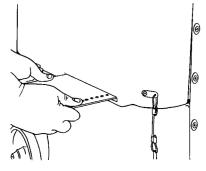
The WASP uses 3" hose for normal applications. For best production and conditioning results, use at least 100' of hose. You may use up to 200' of 3" hose but you will notice a decrease in production as well as the throw out of the end of the hose. It is recommended that if you need to use a hose longer than 150', reduce down to 2-1/2" hose. The reduction of hose size will limit the capacity and increase the throw of the material at the end of the hose. For Spray-on and Wall spray applications you may purchase a hose insert tube for this machine. The hose insert tube will allow you to connect a 2" hose at the machine outlet and eliminate the possibilities of plugging and increasing ease of handling. Call your distributor or INTEC for further details.

ADJUSTING SLIDE GATE

The WASP incorporates a cross flow type slide gate which assists in delivering a smoother feed rate as well as a more accurate means to deliver the fiber into the airlock. This type of slide gate helps regulate the flow of fibers by a means of increasing or decreasing the square area just above the airlock. Each hole (pin) setting adjusts the slide gate by 1" increments.

HOPPER SAFETY

Your safety is the most important consideration whenever you are using any machine. Following the instructions in this manual, along with good common sense, should allow you to complete your job in a safe, efficient manner.



SLIDE GATE



Note: Overloading the hopper or pushing down on the material in the hopper can cause electrical problems or jamming which can damage your machine.



Hopper Safety (Cont'd)

First, before loading your Wasp, follow all safety considerations provided by the manufacturer of the insulation material, including the use of protective masks or respirators. Never wear loose clothing or other items while running this machine. Failure to follow safety precautions may result in bodily injury. Any time you overload the hopper, or place objects other than insulation material into the hopper, you are risking personal injury or equipment failure.

LOADING THE HOPPER

When loading the machine, empty only one bag at a time into the hopper. Wait until half the contents have been used before adding another bag. Always clean unused material out of the hopper, airlock, and hose at the end of each job. Do not put your hands inside the hopper while the machine is running or plugged into the electrical source. If a tool or other foreign object accidentally fall into the hopper, turn the machine off immediately, unplug the machine from electrical source and remove foreign object. Careless operation of this machine can result in bodily injury.





Note: Forcing insulation material or overloading can cause electrical problems or possible machine damage.



INSULATION MATERIALS

Cellulose: When loading cellulose material into hopper make sure you keep your hands away from the rotating agitator blades at all times. Rest the bag on the side of the hopper and cut bag open. With the bag cut open dispense compacted insulation into the hopper gradually and allow the agitation system to break up the material. After initial bag has been loaded. You may open additional bags and dispense. Do not attempt to force feed the fiber into the hopper or possible overloading of the agitator motor may occur!

Fiberglass: When loading fiberglass material into hopper make sure you keep your hands away from the rotating agitator blades at all times. Before loading place bag on flat surface and cut bag in half, see below illustration. With 1/2 bag cut, dispense fiber into the hopper gradually until the agitation system has had sufficient time to break up material. After initial 1/2 bag has been loaded into the hopper cut the remainder of bag and load accordingly to feed rate of material. **Do** not attempt to force feed the fiber into the hopper or possible overloading of the motor may occur!



Cut bag all the wav around. Corte la bolsa alrededor completamente.



Bend bag to break. Turn Doble la bolsa para la máguina.

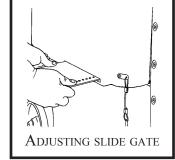
SLIDE GATE / BLOWER

The following instructions are to be used as a general guideline for operation. Application adjustments will vary from job to job depending upon the insulation material you are using. The combination use of the slide gate and the blower speed control changes the product to air ratio, which has a direct result on the density & coverage. If you experience poor coverage with a certain material, push the slide gate in 1-2 pin settings and turn up the blower speed control setting to increase the air to product ratio.



Caution: If you are inexperienced with blowing sidewalls you may loosen or blow off sheetrock, or you may accidentally fill areas such as closets.

Application	Slide gate setting	Blower speed control
Attic	Open	100%
*Wall Spray	4 – 5" Opening	80 - 100%
*Spray wall	3 – 4" Opening	100%
*Retrofit sidewall	3 – 4" Opening	80 - 100%
Fire Proofing	4 – 5" Opening	100%



Construction example: 2 inches x 4 inches x 8 feet on 16 inch centers,

2.8 cubic foot cavity

CELLULOSE COVERAGE

1.6 pound material density, 18.7 pound bag

Wall Pack Density Pounds Per Cavity

4.0 pounds 11.2 pounds 3.5 pounds 9.8 pounds 3.0 pounds 8.4 pounds

Average yield with Cellulose: 1.9 cavities per 18.7 pound bag

FIBERGLASS COVERAGE



JM Product Information: (800) 654-3103

Product:

Johns Manville Climate Pro, 27 pound bag

Wall Pack Density Pounds Per Cavity

1.70 pounds 4.65 pounds

Average yield with Climate Pro: 5.8 cavities per 27 pound bag

CertainTeed H

CertainTeed Technical Services: (800) 233-8990

Product:

CertainTeed InsulSafe SP, 31 pound bag

Wall Pack Density Pounds Per Cavity

1.8 pounds 5.04 pounds

Average yield with InsulSafe SP: 6.15 cavities per 31 pound bag



Guardian Product Information: (800) 748-0035

Product:

Attic Guard PLUS, 33 pound bag

Wall Pack Density Pounds Per Cavity

2.2 lb 6.16

Average yield with Attic Guard Plus: 5.36 cavities per 33 pound bag

These are guidelines only, consult individual manufacturers for specific application information.



FIGURING WALL CAVITY AREA

Measure wall cavity in inches. Multiply depth x width x height.

Example:

- (1) 3-1/2" deep x 14-1/2" wide x 92-5/8" tall = 4,700 cubic inches
- (2) Divide 4,700 by 1,728 = 2.72 cubic feet in the cavity.

 Each wall cavity may vary slightly.

 (1,728 equals the number of cubic inches in a cubic foot.)

Actual lumber dimensions:

2 x 4 x 8: 1-1/2 inches x 3-1/2 inches x 92-5/8 inches 2 x 6 x 8: 1-1/2 inches x 5-1/2 inches x 92-5/8 inches

The WASP may be run on any commercial size generator. Most household generators will not run the WASP due to the high in rush requirements needed to start the agitator motor. The following generators are not recommended; Honda, Yamaha, Coleman, Generac. The aforementioned units are of high quality but do not have the in rush protection devices necessary to start the WASP and protect the windings on the generator. Recommended generator size for the WASP is 9000 watts or greater @ 115 VAC.

A NOTE: If you plan on running additional equipment off the generator you will need to know the current draw before selecting the correct size.

A NOTE: Using a generator of insufficient size will void the Warranty.

EXTENSION CORDS

The Wasp machine is shipped with two 10/3 x 100', power cords. If additional extension cord is required, use 8/3 or larger - beyond the supplied 100' power cord. See table below for adding an extension cord. Use only those extension cords meeting these specifications. Always use a 3-conductor extension cord.

Extension Cord Current Capacities

Wire AWG Max Size	AMP Rating
8 AWG 100'	30
10 AWG 50'	25



ROUTINE INSPECTION & MAINTENANCE

DISCONNECT ALL ELECTRICAL POWER BEFORE PERFORMING ANY MAINTENANCE

3/6/12 MONTH MAINTENANCE

- ✓ Check alignment of chains and wear on all sprockets.
- ✓ Check chain tensioner and alignment.
- ✓ Check all Screws and bolts for tension, tighten if necessary.
- ✓ Check airlock seals for wear.
- ✓ Check blower brushes for wear, replace if necessary.
- ✓ Lubricate all chains. Use general-purpose dry chain lube.
- ✓ Clean hopper/base. Use Armor All plastic cleaner.
- ✓ Clean filter with compressed air or soap and water.

GENERAL MAINTENANCE

Preventative maintenance will add years of life to your new WASP. Cleaning the outside of the hopper and base with a de-greasing soap and applying Armor All type plastic cleaner will add years to the appearance. Cleaning the base filter every 40 hours or less will help ensure that you get the maximum life of the blower brushes and minimize any overheating condition. Your remote cord and box takes a lot of abuse over the coarse of time. To ensure their life, inspect all cords and remote box switches once a week for cuts, tears, or electrical terminals becoming loose. If any cuts, tears or loose switches are found, repair or replace the damaged area immediately!

BLOWERS

Always keep the blowers as clean as possible to avoid overheating. If the base filter has not been cleaned as recommended overheating will develop and cause lower production and possible system failure. Inspect blower brushes every 3 months or 100 hours of use. Replace brushes if they are 1/4" in length or shorter.

When brush change is required brushes should be changed BEFORE the brush stunt touches the commutator. On reassembly and handling, the lead wires must be kept away from the rotating parts and motor frame. For best blower performance, the new brushes must be seated against the commutator before full voltage is applied. After replacing brushes, set blower control to fifty percent (50%) and run for thirty minutes (30 minutes) to seat new brushes. Blower will return to full performance after forty-five minutes of running at 100% on the blower control. Damage will occur (Arcing, commutator pitting, and reduced overall life) if you immediately run blower at 100% after replacing brushes.



BLOWERS

Blower motors showing any of the following signs of abuse will not be considered in-warranty failures:

- ✓ Damage in shipment.
- ✓ Moisture damage (visible)
- ✓ Rust or corrosion on outside of motor.
- ✓ Dirty motor, inadequate filtration.
- ✓ Broken components on motor, brushes, brush holder etc.
- ✓ Modification of blower, holes, silicone, etc.
- ✓ Rewound armatures or fields
- ✓ Evidence of disassembly
- ✓ Evidence of foreign object introduced into fan end of motor.

GEARBOX / CHAIN ALIGNMENT

Primary drive refers to the drive that connects the gearbox to the airlock. Agitator drive refers to the drive that connects the airlock to the agitation system. Both the primary and the agitator drives need to be periodically inspected for alignment and lubrication. Loosening four (4) bolts on the gearbox (See exploded view drawing), and the two bolts on the airlock assembly may adjust the primary drive. Agitator drive is a self-tensioning drive. The tensioner (See exploded view drawing) keeps constant pressure on the chain at all times during operation. Caution: If you rotate the agitation system backward you will loosen the chain tensioner and cause possible damage to the agitator drive system. If agitator drive system is rotated backwards, remove front panel cover and adjust as per the original manufactures guidelines. Reminder: Always disconnect the electrical before attempting to repair. Periodically use dry graphite spray lube on chain to prolong the life of both the chain and sprockets.

BILLIBER

The WASP filter has been designed to be cleaned with either compressed air or soap and water. We recommend that the filter be cleaned at least every 50 hours of operation. If you experience over heating of motors or tripping circuit breakers check to make sure filter is clean.



NOTE: Always remove filter from base housing before cleaning, failure to do so may cause bodily injury or harm to internal components. After cleaning with water allow sufficient time for filter to dry. Never run the WASP without the filter!



CORDS AND SWITCHES

The remote cord and switches are subject to considerable wear and tear during normal use. Inspect all cords and switches each week for cuts or loose connections. Repair or replace any damaged components at once to avoid possible injury.

AIRLOCK SEALS & BLOW BACK

Airlock seals are the most important component of keeping your Wasp running in original condition. Airlock seals function much like the piston rings in a car engine, keeping pressure and air from escaping. When a seal or plate is damaged, air from the blower will escape back into the hopper causing "blow back." Blow back will result in a considerable decrease in production.

Checking for blow back; unplug the machine from electrical power and empty all insulation material from the hopper. Block the hose outlet with duct tape, or use the palm of your hand. Reconnect the power and turn on both the blower and agitator motor. A hissing or puffing sound of air escaping into the hopper indicates blow back. In addition, any insulation material remaining in the airlock will blow back into the hopper, creating dust. To remedy blow back, it is necessary to replace the Airlock seals or plates. For related information, taking a pressure reading and changing seals, see next two pages.



PRESSURE GAUGE TESTING

Objective:

Ensure your Intec Insulation Machine is operating at peak performance levels to provide optimal production levels and allow for proper arc length and coverage of material.

Process:



1. Make sure before using pressure gauge that the machine is cleaned out of any material.



2. Turn blower and agitator "on".



3. Hold pressure gauge to exit tube and apply slight hand pressure.



4. Read pressure gauge and record findings.



5. Pressure reading will very a little, normally a couple of tenths on a new machine.

If the pressure varies between 2/10-3/10ths between each seal, check for the following issues:

- · Worn or cut seals.
- · Bent rotor plates.
- · Material wedged in on side of
- · Blower intake is dirty or built up with insulation.
- · Blower brushes worn.

Dense Pack applications:

The Department of Energy (DOE) requires minimum outlet pressure (at the machine) of 2.9 psi or 80 inches of water. Failure to follow the recommended minimum outlet pressure may cause improper cavity fill and will not meet DOE guidelines for Dense pack sidewall applications.

Expectations: Standard pressure readings on Intec equipment when

shipped from our factory are the following:

Standard (PSI): System: Minimum (PSI): **WASP 3.2 - 3.52.8

** Recommended Machine for Dense pack

REPLACING AIRLOCK SEALS

Objective:

Ensure your Wasp Insulation Machine is operating at peak performance levels to provide optimal production levels and allow for proper arc length and coverage of material.

Tools Required for job:

- 7/16" Socket & Rachet
- Airlock rotor plate gauge
- 7/16" Open-end wrench
- Torque wrench, in/lbs

Process:





1. Make sure before replacing the seals that you unplug the power from the machine.



2. Remove all insulation material from hopper and airlock.



3. Using the airlock rotor plate gauge, check to make sure that there are no bent rotor plates.

(replace airlock rotor or airlock rotor plates if bent.)



4. With the machine in an upright position, locate the bolts holding the seal. Loosen and remove the fasteners using a 7/16" socket and ratchet, and a 7/16" openended wrench.



5. Remove the old seal from the airlock rotor shaft and replace with new airlock seal. Make sure the seal is going in the correct direction.

(See manual for correct rotation.)



Note: Installing the airlock seal backwards will cause excessive air to leak out of airlock.



6. Re-install bolts, hand tighten. Tighten the bolts but be sure not to over tighten. (Overtightening will cause the seal to bow out at the ends producing uneven wear and premature failure and excess amperage.)



Note: Installing the airlock seal backwards will cause excessive air to leak out of airlock.



7. Set torque wrench to 30 in/lbs setting. Tighten each airlock seal bolt down until torque wrench "breaks".



8. Re-connect electrical power, using the remote switch, move the airlock seal into the position for removal.



9. Again, disconnect from electrical power and repeat steps 1-7.

Qty Needed: Part Number: **Description:**

• 22013 Wasp Seal • 12229 Airlock Rotor Plate Tester

A Note: We Recommend changing the airlock seals every 300 hours, 200,000 lbs of insulation or once a year, whichever comes first.



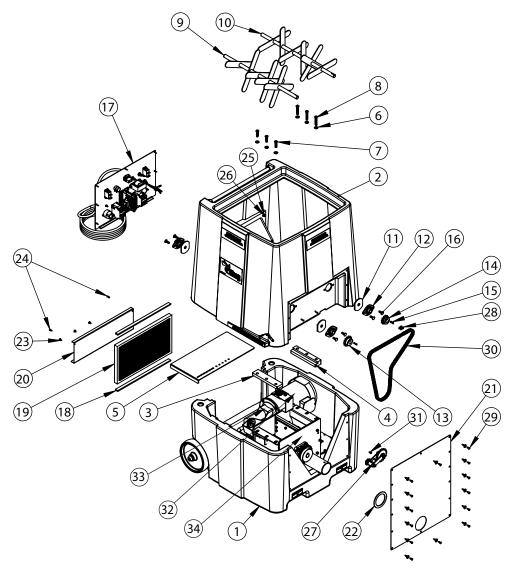
Problem	Likely Cause	Remedy	
Agitator does not operate.	Power cords not plugged in.	Check cord and plug in.	
	Loose power cord/extension cord at electrical connection.	Check condition of electrical plug blades.	
	Rocker switch for agitator is not "on" at main panel.	Depress rocker switch to "on" position,	
	Circuit breaker tripped on main panel.	Push to reset tripped circuit breaker.	
Machine turns on and makes ratcheting noise from behind electrical operator panel.	Agitator or Blower contactor not receiving full power.	Use shorter extension cord to operate machine.	
	Extension cord to long.	Shorten extension cord at least 25 feet.	
	Electrical supply to machine is low or low voltage.	Plug agitator into either the washing machine or refrigerator outlet.	
Agitator arms run slow.	To many electrical devices on circuit.	Unplug other electrical devices on the circuit or re-locate extension cord to either the washing machine or refrigerator outlet.	
	Extension cord not correct size.	Use the following extension cords: 12/3 x 50' 10/3 x 100'	
	Agitator chain mis-aligned.	Remove front panel by hose outlet tube and inspect alignment of chain. Have a qualified technician adjust alignment.	
Insulation drips out of hose.	Worn airlock seals.	Inspect seals for tears or cuts, replace as necessary. Minimum PSI, 2.8 for blowing attics.	



Problem	Likely Cause	Remedy	
Insulation drips out of hose.	Clogged hose.	Remove insulation from hose. Check for possible block at machine outlet connection or between both hoses.	
	Kink in hose.	Run hose as straight as possible. This will help maintain production.	
	Excess air leakage into hopper.	Inspect seals for cuts, replace as necessary. Have a qualified technician replace and adjust.	
	Blower speed control to low.	Check blower speed control on electrical panel. Adjust to 100%.	
	Blower brushes worn.	Check blower brushes in motor. Replace if 1/4" or shorter.	
Machine does not run.	Emergency Stop depressed.	Pull emergency stop out to restart machine.	
	No power to machine.	Check electrical source. Possible blown circuit breaker / Fuse.	
	Circuit breakers on machine. "tripped" or in "off" position.	Check circuit breakers on electrical panel are in the "on" position.	
No material comes out end of hose. Air only!	Agitator not plugged in.	Plug in extension cord or check electrical power source.	
	Bridge (air pocket in hopper).	Turn "off" all switches and disconnect power. Push downward on material and stir material in hopper.	
Blower will not turn on.	Tripped blower circuit breaker.	Reset blower circuit breaker on electrical panel.	



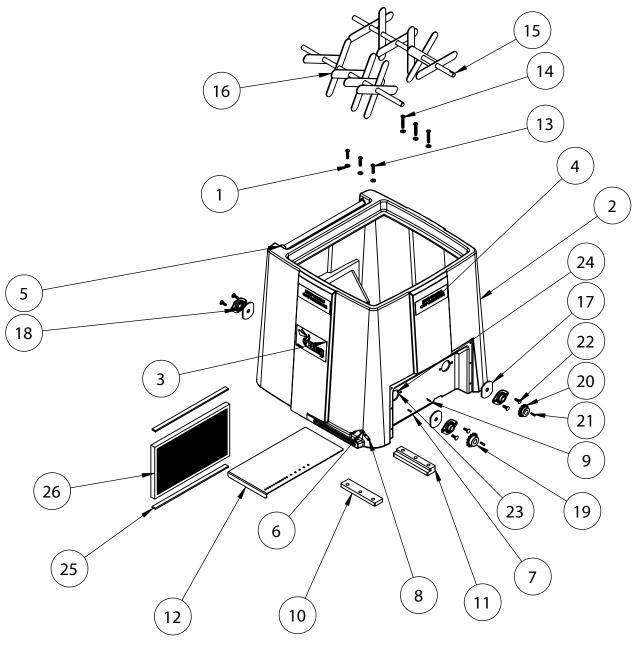
Problem	Likely Cause	Remedy
Blower will not turn "on" (Cont'd)	Blower speed control in "off" position.	Locate control knob on front electrical panel and rotate clockwise until knob is positioned at 100%.
	Tripped blower circuit breaker.	Reset blower circuit breaker on electrical panel.
	Loose or disconnected extension cord.	Check extension cord for poor connection or disconnected.
	Low voltage.	Blower needs to run on a minimum of 115 VAC @ 15 amps. Preferred, 20 amp circuit.
	Incorrect size of extension cord.	If possible, use only the supplied extension cord with the machine.
	Using same electrical outlet for both extension cords.	Discontinue pushing down on the fiberglass while feeding material into hopper.
Blower trips circuit breaker.	Low voltage.	Remove one of the extension cords from power source and relocate to a known separate outlet.
	Using same electrical outlet for both extension cords.	Blower needs to run a minimum of 115 VAC @ 20 amps. (use a refrigerator outlet).
		Remove one of the extension cords from power source and relocate known separate outlet.
Person in the attic is getting static electricity from material.	Use of Fiber glass material.	Mix 1/2 water 1/2 fabric soft- ener in spray bottle. Mist onto insulation while loading. Excess water / fabric softener will cause jamming of machine.



Item #QTY. PART NUMBER DESCRIPTION
11
210521-0100-00Hopper, Std
310525-1600-00Airlock Hopper Urethane Spacer Left
410525-1500-00 Airlock Hopper Urethane Spacer Right
510521-0400-00Slide Gate Std Wasp
6
73
8
910524-1700-00Agitator Assm Left 9-1/2"
1010524-1701-00Agitator Assm Right 10-1/2"
1140524-0602-00Agitator Bearing Felt Seal, 5/8 ID
1240524-0600-00Agitator Bearing Assm
131
1410524-0900-00Sprocket Agitator 12 Tooth
15
168
1710506-0000-01Elec Panel ASSM 115VAC

Item # QTY. PART NUMBER DESCRIPTION
1820522-1100-00Filter Gasket, 3/4" X 17-1/8"
19
20
21RP522-0700-01Front Panel Painted
2210522-1300-00Front Panel, Seal
233F22410*32 X 3/8" Phil Truss
244
257F1591/4" SAE Flat Washer
267F1141/4*20 Nylon Locknut
2710504-0700-00Tensioner ASSM W/19T Sprocket #40
2810523-0500-00Chain Master Link #40
2914F139Push Type Retainer .030 X .700 X .118 X .898
3010524-1100-00Chain Agitator 48-3/4"
31F1428*32 X 1/2" PP Type F Self Tapping Screw
321
33
3410505-0100-01Airlock Assembly W/SS Inserts

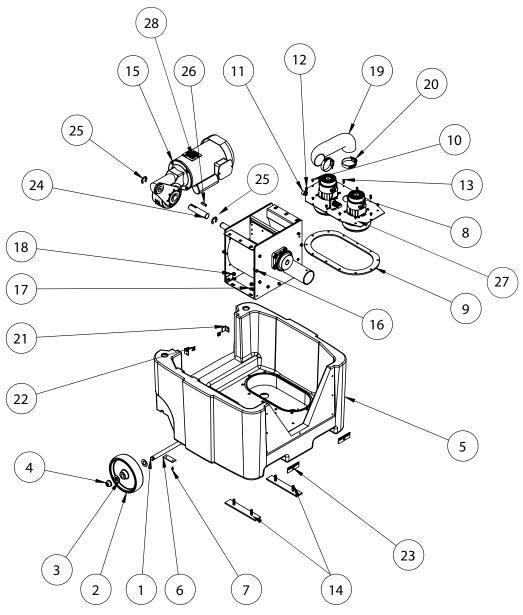
Wasp Mechanical Drawings (Cont'd)



Item # QTY. PART NUMBER DESCRIPTION
134F1083/8" Flat Washer SAE
210521-0100-00Hopper, Standard
320521-0800-00Sticker, Wasp Logo
430521-1000-00Sticker, Keep Hands Out!
5
61
7Airlock Gasket
81
97
1010525-1600-00Airlock Hopper Spacer Left
1110525-1500-00Airlock Hopper Spacer Right
1210521-0400-00Slide Gate Standard Wasp
13

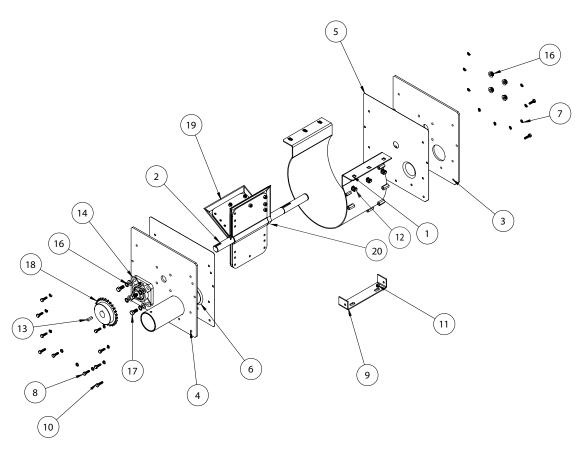
ı	Item # QTY. PART NUMBER DESCRIPTION
I	14
I	15
I	1660524-1701-00Agitator Assm Right 10-1/2"
I	1740524-0602-00Agitator Bearing Felt Seal, 5/8" ID
I	1840524-0600-00Agitator Bearing Assembly
I	1910524-1000-00Sprocket Agitator 14 tooth
I	2010524-0900-00Sprocket Agitator 12 tooth
I	21
I	228F3175/16" X 1" Carriage Bolt
I	238
I	248F3185/16*18 Nylon Insert Lock Nut
I	2520522-1100-00Filter Gasket, 3/4" X 17-1/8"
I	26

Wasp Mechanical Drawings (Cont'd)

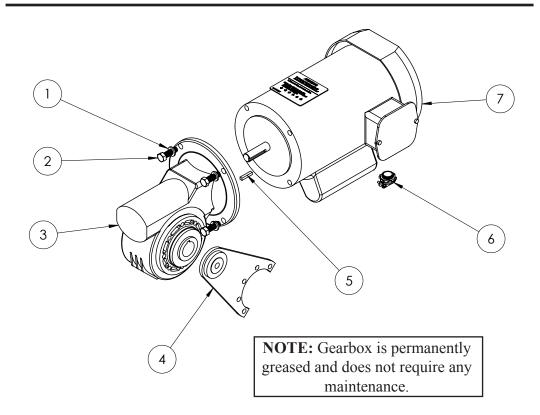


Item # QTY. PART NUMBER DESCRIPTION
1
2
34F305Wheel Washer 3/4"
4
5
620522-0400-00Axle Support Bracket
74
81
9
108
11
121
133
14
15

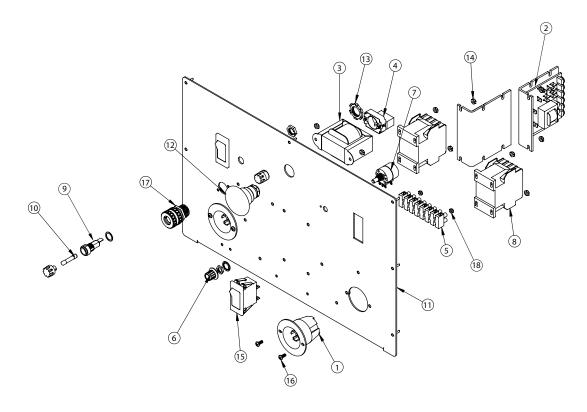
Item #QTY. PART NUMBER DESCRIPTION
161
174F1083/8" Flat Washer SAE
184F1093/8*16 Nylon Lock Nut
1910507-0701-00Airlock Rubber Connector 2-1/2 X 16-1/2"
2022050-04Hose Clamp Stainless 2-1/2"
2120522-1500-00Filter, Support Bracket 1"
224F324#6 X 5/8" PP ZN Plastiloc
2320522-1400-00Sticker, Lift Handle
2410523-0202-00Gearbox Output Shaft Sleeve 1-1/8 to 1"
2520523-0118-00Gearbox Shaft E-Ring
26
2710518-0000-00Blower 115VAC 60 HTZ 101 CFM ASSM
281



Item #	QTY.	PART NUMBER	DESCRIPTION
1	1	22005-09	Airlock Tube 12"
2	1	0525-0300-01	Airlock Rotor Assm W/Seal
3	1	0525-0100-00	Airlock Inlet Plate Assm.
4	1	0525-0200-00	Airlock Outlet Plate Assm.
5	1	0525-0103-00	Airlock Insert Stls 2.5" Wasp Inlet Plate
			Airlock Insert Stls 3" Wasp Outlet Plate
			1/4" Split Lock Washer
			1/4*20 X 7/8" Hex Cap Grd 5
			Airlock Mount Bracket
			1/4*20 X1" Grd 9 Yell
			1/4 20 Nr Gru / Ten
		F221	
		0523-0126-00	S .
			Airlock Bearing Flange 4 Hole
			3/8" Flat Washer SAE
			3/8" SAE Internal Lock Washer
17	8	F105	3/8*24 X 7/8" Grd 5 Hex
18	1	0524-1500-00	Sprocket Airlock 26 tooth X 1"
		22013	
20	2	22116	Airlock Rotor

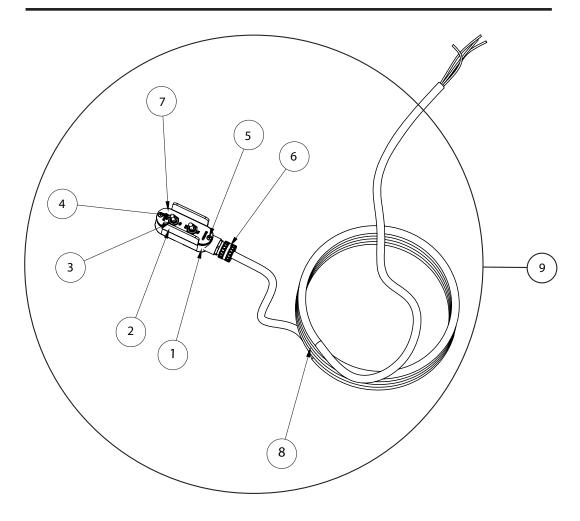


Item #	QTY.	PART NUMBER	DESCRIPTION
1	4	F107	3/8" Split Lock Washer
2	4	F330	3/8*16 X 1-1/4" Grd 5 Hex Bolt
3	1	0523-0100-00	Gearbox, Wasp
4	1	0523-0201-00	Gearbox, Reaction Arm
5	1	02005-02	Key 3/16 X 7/8"
			Strain Relief, Agitator, 1/2"
			Agitator Mtr 1 5 Hn 115/220VAC 60 Hz



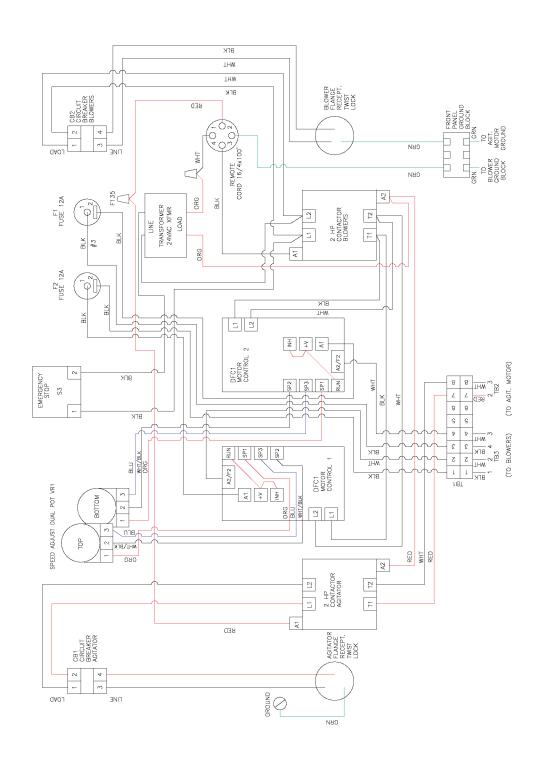
Item #	QTY.	PART NUMBER	DESCRIPTION
1	2	21010	Elec Flange Recep Twist 15 Amp
2	2	21143-06	Variable Speed Control
3	1	21002	Transformer 115 VAC
4	1	0516-0202-00	Emergency Stop Contact Block
5	1	0516-0402-00	Barrier Strip 8 Position
			Variable Speed Knob
			Variable Speed Pot, Dual
			Elec Contactor 24 VAC Coil
			Fuse Holder, Blower
		0516-2301-00	
		0516-1100-01	
			Emergency Stop Button, Maintained, Red
			Strain Relief, Lock Nut, 1/2"
			6*32 Nylon Insert Lock Nut
			Circuit Breaker/Switch 20 AMP
		F119	
			Strain Relief, Aluminum, 1/2"
			4*40 Nylon Insert Lock Nut



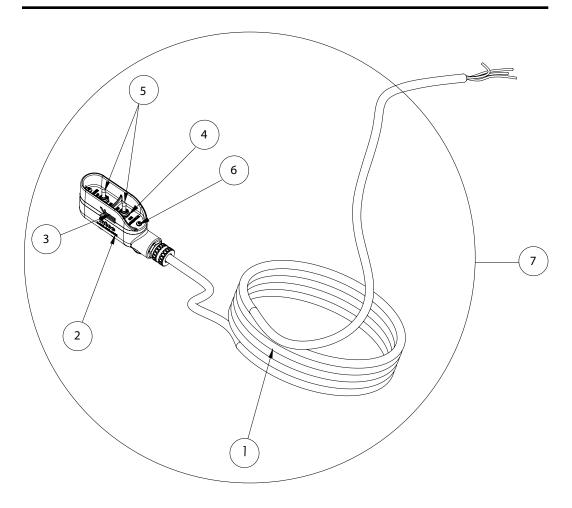


Item #	QTY.	PART NUMBER	DESCRIPTION
1	1	0516-0904-00	Remote Box 1/2" W/Hole
2	1	0516-0902-00	Remote Box 1/2" Shield W/Irriditing W/O Sticker
3	2	11072	Remote Box Toggle Switch Seal
4	2	11071	Remote Box Tog Swt 20 Amp SPST
5	6	F119	8*32 X 3/8" Screw
6	2	21008-02	Strain Relief, Aluminum, 1/2"
7	1	0516-0901-00	Remote Box 1/2" Shield Sticker
8	1	21008-03	Remote Cord 18/4 X 100' (Only)
9	1	0506-3000-00	Remote Cord/Box 18/4 X 100' W/Toggle Switches

115 VAC Electrical Wiring Diagram, 24VAC Electrical with variable speed control Mfg. from 10/02 - Present







Item #	QTY.	PART NUMBER	DESCRIPTION
1	1	21008-03	Remote Cord 18/4 x 100'
2	1	21050	Remote Box, 3/4", Molded
3	1	21051	Remote, Box Shield, 3/4" Molded
4	2	11072	Remote Box Toggle Switch Seal
5	1	21061	Switch Assm, Field Replacement Remote Box Molded
		F119	* *
			Remote Cord Assm Molded, 18/4 x 100'

BEFORE OPERATING EQUIPMENT

Remote control operation:

When starting the machine, FIRST, TURN ON THE BLOWER then the agitator. When shutting the machine off, FIRST, TURN OFF THE AGITATOR then the blower.

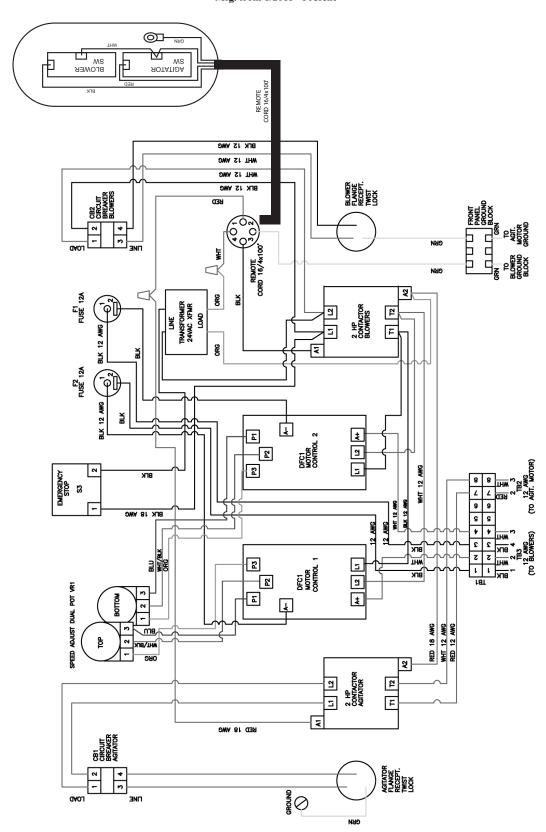
NOTE: Do not allow the agitator to run for more than 5 minutes without the blower running or damage may occur to the blower motor.

ANTES DE UTILIZAR EL EQUIPO

Funcionamiento del control remoto: Cuando arranque el equipo, **PRIMERO ENCIENDA EL COMPRESOR** y luego el agitador. Cuando apague el equipo, **PRIMERO APAGUE EL AGITADOR** y luego el compresor.

IMPORTANTE: no permita que el agitador funcione por más de 5 minutos sin que el compresor esté en funcionamiento; de lo contrario, se pueden producir daños en el motor del compresor.

115 VAC Electrical Wiring Diagram, 24VAC Electrical with variable speed control Mfg. from 1/2011 - Present



These goods were carefully packed and thoroughly inspected before leaving our factory. Responsibility for its safe delivery was assumed by the carrier upon acceptance of the shipment. Inspect shipment carefully on arrival for damage to contents or shortages. In case of damage, save container and packing material for inspection. Claims for loss or damage sustained in transit must be directed to carrier as follows:

CONCEALED LOSS OR DAMAGE

Concealed loss or damage means loss or damage which does not become apparent until the merchandise has been unpacked. The contents may be damaged in transit due to rough handling, even though the carton may not show external damage. When the damage is discovered upon unpacking, call the freight company immediately. Make arrangements for an inspection within 10 days of delivery date. Then, file a claim with the carrier.

VISIBLE LOSS OR DAMAGE

Any external evidence of loss or damage must be noted on the freight bill or the express receipt, and signed by the carrier's agent. Failure to adequately describe such external evidence of loss or damage may result in the carrier refusing to honor a damage claim. The form required to file such a claim will be supplied by the carrier.

SHORTAGE

If the number of containers in the shipment does not correspond with the transportation bill, obtain carrier's notation of shortage and signature on transportation bill. When the number of containers is correct, but there is indication of pilferage, notify carrier in writing with a complete list of missing merchandise.

Claims for loss or damage must be filed with the carrier by the consignee within 24 hours after receipt of goods. We will assist you in every possible manner. Intec cannot be responsible for the collection of a claim or the cost of replacement of the damaged goods.

If you have any questions regarding the above information, please feel free to contact an INTEC representative.



RETURNS

We at INTEC sincerely hope the merchandise you have just received is in excellent condition and satisfies your expectations. If not, please look below and follow the instructions which apply to your particular situation.

MERCHANDISE IS DAMAGED

If the carrier is UPS:

Keep the merchandise in the original packing materials and carton. Call UPS at (800) 742-5877 or contact them using their web address: http://www.ups.com/index.html to notify them of the damaged package.

If the carrier is FedEx:

Keep the merchandise in the original packing materials and carton. Call FedEx at (800) GO-FedEx or contact them using their web address: http://www.fedex.com/us/ to notify them of the damaged package.

Other than UPS or FedEx:

Keep the merchandise in the original packing materials and carton.

Call the Shipping Department at the number on the following page for further instructions.

Upon return of this form and/or the damaged merchandise by the carrier, we will send you a replacement or credit your account. Do not return any merchandise through the U.S. Post Office.

MERCHANDISE IS PERSONALLY UNSATISFACTORY TO YOU

You may return the merchandise, along with a RMA number on outside of carton and a copy of your invoice, to the Shipping Department at the address provided on the next page. Upon its return intact, we will send a refund or credit your account. A restocking fee may be charged.

SHIPMENTS TO FACTORY

All shipments to the factory must have a RMA number on the outside of the carton. You will be given a RMA number when you contact the Sales Department. The RMA is the only way to track and assure that your request is handled properly. If you received an invoice with your merchandise, please include a copy of the invoice with all returned materials.

Company Name:		
Contact Name:		
Phone:()	Fax:()	
Address:		
City:	State: Zip:	
Invoice Number:	RMA Number:	

REPLACEMENT PARTS

When you call INTEC, please have available the model number and serial number of your machine, as well as description of the defective part or an explanation of the defect.

We will issue a **Return Merchandise Authorization (RMA)** number and instructions to return the defective part. All shipments must be sent via UPS, except in the case of complete machines, when a common carrier should be used. The warranty on your machine does not cover **freight charges.** All shipments to the factory or service center must be freight prepaid. No freight collect shipments will be accepted without prior approval.



Your RMA number must appear on the outside of any returned cartons. We assume no responsibility for incoming, lost or untraceable shipments. RMA numbers expire 30 days after issue date. Shipments received after the 30-day expiration period may not be credited.

We will repair or replace, at our option, any returned part found to be defective in materials or workmanship – under the terms of our limited warranty. Repaired or replaced parts will be returned to you freight collect.

If we determine the part failure was due to misuse, alteration, negligence, accident or operating beyond rated capacity, we will contact you. At your option, we will send you a new part at the prevailing price, or return the failed part to you. All shipments from the factory are sent freight collect.

If you require a replacement part prior to a warranty decision, we will send the part to you at the prevailing price, under your current terms. When we receive the defective part and a warranty decision has been made, INTEC will either issue a credit to your account or return the failed part to you.

CONTACTING INTEC

We are available, Monday-Friday, excluding holidays. In the United States and Canada, call toll free (800) 666-1611, 7:00 A.M. to 5:00 P.M. Mountain Standard Time. Ask for technical support and one of our people will be glad to help you.



INTEC Shipping Department 3771 Monarch Street Frederick, CO 80530 Phone: 1-303-833-6644 Toll Free: 1-800-666-1611 Fax: 1-303-833-6650 E-mail:info@inteccorp.com



PHONE SUPPORT

Available Monday - Friday, excluding holidays. In the United States and Canada, call (800) 666-1611, 7:00 A.M. to 5:00 P.M. Mountain Time. Ask for technical support and one of our technicians will be glad to help you.

ON-SITE/OFF-SITE REPAIR SUPPORT

Available Monday to Friday, excluding holidays. In the United States and Canada, call (800) 666-1611, 7:00 A.M. to 5:00 P.M. Mountain time. For the latest repair/service centers across the United States visit our web site, www.inteccorp.com and go to service centers. All service centers are independently owned and operated and are not part of INTEC. Consult the nearest service center for the hours of operation and lead time for repair.

WEBSITE SUPPORT

Visit our web site 24/7 at **www.inteccorp.com** and go to the specific model your wanting information on, then go to the technical bulletins section. The technical section of the web site is constantly being updated with new information and technical documents. If you cannot find what you are looking for please contact us Monday - Friday, excluding holidays, in the United States and Canada, call (800) 666-1611, 7:00 A.M. to 5:00 P.M. Mountain Time. Ask for technical support and one of our technicians will be glad to help you.

CONTACTING INTEC



INTEC P.O. Box 579 3771 Monarch Street Frederick, CO 80530 Phone: 1-303-833-6644
Toll Free: 1-800-666-1611
Fax: 1-303-833-6650
E-mail:info@inteccorp.com

R-VALUE: The resistance (R) to heat or cold. The higher the R Value, the greater the resistance the better the insulation factor.

SETTLEMENT: All blown insulation will settle after installation. Your FORCE/2 system installs at settled density. Consult the chart on the material bag for coverage and install accordingly.

COVERAGE: Every bag of material comes with a coverage chart detailing R-Value ratings. Average ratings for various materials are:

Cellulose: R = 3.7 per inch Rockwool: R = 2.6 per inch Fiberglass: R = 2.2 per inch

CFM: Blowers are measured by Cubic Feet per Minute. A low CFM blower reduces "dust" when blowing insulation into an attic.

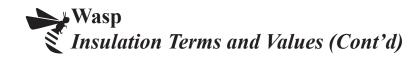
PSI: Blowers are also rated by **P**ounds of pressure per **S**quare **I**nch. A high PSI does a better job of blowing insulation.

BRIDGING: A pocket of air, or void, created by improper agitation in the hopper. A "bridge" can stop production until cleared. Your Wasp system is designed with a non-bridging hopper. However, you may experience a temporary bridge while using your machine. Waiting a few seconds will most likely clear a temporary bridge. If not, unplug your machine and redistribute the material in the hopper.

VENTILATION: Proper air flow requires one square foot of air movement for every 150 square feet of attic area.

AIRLOCK SEAL: Also known as flapper, rubbers, paddles.

DENSE PACK: The term "dense pack" is used by Cellulose industry when insulating a sidewall cavity at blown densities of 3.5-4.0 lbs/cuft. Consult your Insulation manufacturer/supplier for further information and specifications.



COMMON INSULATION VALUES

Material	Thickness	R-Value
Air Space	1"	1.01
Cellulose loose fill	1"	3.70
Celotex	1"	3.03
Concrete block	8", hollow	1.11
Fiberglass batt	31/2"	11.0
Fiberglass batt	8"	19.0
Fiberglass loose fill	1"	2.2
Rockwool batt	3/4"	11.0
Rockwool batt	6 - 7 1/2"	22.0
Rockwool loose fill	1"	2.60
Plywood	1/2"	.62
Polyurethane board	1"	6.25
Vermiculite	1"	2.13



LIMITED WARRANTY

It is expressly understood and agreed that no officer, agent, salesman or employee of the Manufacturer INTEC 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 this 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's Wasp insulation blowing machine is sold with the following one (1) year Limited Warranty, and no other:

- 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 this Operator's Manual and the Maintenance Manual. This Warranty is void if the machine is not so operated and maintained, or if the machine is used for blowing 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, with the exception of the blower, electrical and air look components, which are guaranteed for a period of ninety (90) days from date of factory shipment.
- 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 or operated beyond factory rated capacity. All requested Warranty work shall 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 which, 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 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 by 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 applies only to the original purchaser and is not transferable.