



 **TURBO**<sup>TM</sup>  
**intec FORCE**

&

**TURBO**<sup>TM</sup>  
**FORCE** **hp3**

## TURBO FORCE Instruction Manual

Insulation blowing machine

*Original Language - English*

[Intec Turbo Force Hp3 40009 00 Insulation Blowing Machine](#)

[Intec Turbo Force Hp3 40008 00 Insulation Blowing Machine](#)

[Intec Turbo Force Hp3 40010 00 Insulation Machine Canada](#)

[Intec Turbo Force Hp3 40011 00 Insulation Machine Canada](#)

[Intec Turbo Force Hp3 40012 00 Insulation Machine Canada](#)

[Intec Turbo Force Hp3 40005 00 Insulation Machine Canada](#)

[Intec Turbo Force Hp3 40006 00 Insulation Machine Canada](#)

[Intec Turbo Force Hp3 40007 00 Insulation Machine Canada](#)

## Introduction

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 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



-  Disconnect all power cords prior to working on the equipment. Failure to do so could result in injury or death.
-  Never operate equipment with chain guard off.
-  Never operate equipment with hopper in tilt-back mode.
-  Never operate equipment while standing in water as electrical shock may result.
-  Always use grounded extension cords when operating equipment.



-  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.
-  Never put your hands into the hopper or machine outlet while the machine is operating.
-  Keep tools and foreign objects out of the hopper.
-  Never leave the machine unattended during operation. Disconnect all power to the machine when unattended.
-  Never operate the equipment with the access panels off, possible injury may occur.
-  Prior to use, inspect power cord and remote cord prior to ensure no damage exists.



## How the System Works

**OVERVIEW:** Cellulose, Fiberglass, or Stone Wool insulation is loaded into the hopper. The insulation goes thru or under the Breaker Bar. The agitator breaks-up and conditions the insulation for proper density while also sweeping the insulation into the airlock. The airlock transports the insulation into the airstream created by the blower system. Insulation is discharged from the airlock, through the machine outlet, and into the hose. The insulation is further conditioned as it travels through the hose.

An introduction to key components of the system follows:

**Electrical Panel:** The electrical panel, combined with the wireless remote, provides operation of the machine.

**Loading Platform:** The loading platform acts as a shelf to support the bag of insulation being loaded into the hopper.

**Breaker Bar:** The breaker bar is used to slice through cellulose resulting in enhanced hopper utilization. When using stabilized cellulose, fiberglass, or stone wool, move the breaker bar up to its highest position (or remove bar from system) so product does not contact bar when being loaded into hopper.

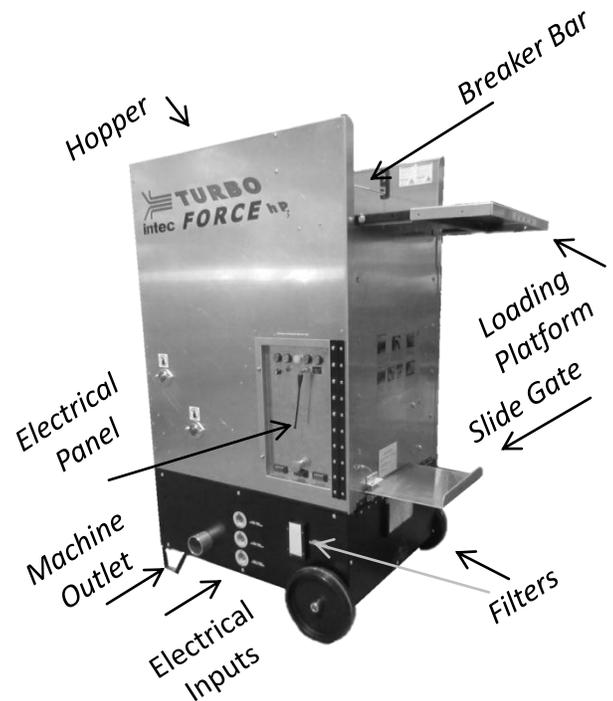
**Hopper:** The hopper contains the insulation being fed into the agitators.

**Filters:** Ensure clean air is being used for blower intake and cooling.

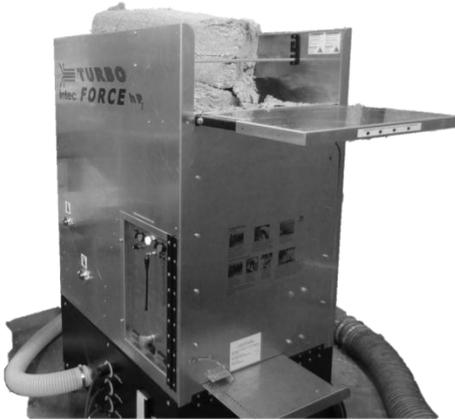
**Agitators:** The agitators condition the fibrous insulation. The configuration of the agitators enable high production rates and appropriate insulation conditioning. The agitators also transport the insulation into the airlock.

**Slide Gate:** The slide gate is between the agitators and the airlock. The slide gate allows insulation to fall into the airlock. The slide gate is opened fully during typical operation. Close the gate slightly to increase the conditioning of the insulation and alter ratio of insulation to airflow.

**Airlock:** The airlock transfers the insulation from the agitation system into the airstream without coming into contact with the blower. Insulation is discharged from the airlock into the hose.



## Set up and Operation



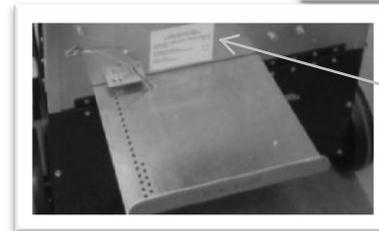
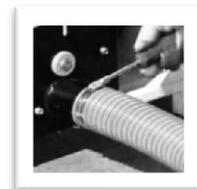
### System Set-Up:

Set system on a dry, level surface.

1. Obtain appropriate protective equipment.
2. Attach hose to machine outlet using a hose clamp.

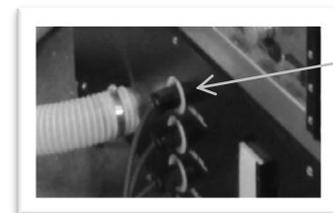


3. Open slide gate & place pin in desired opening.



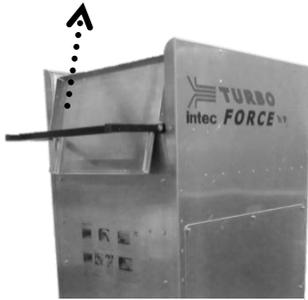
*Suggested slide gate settings for desired applications*

4. Connect 12 gauge heavy duty power cords; each power source is required to be an independent circuit. LED lights will glow indicating power to agitator and blower(s) circuit breakers. *Note: If cannot find 3 independent circuits, or desire is to use 1 blower vs. 2 blowers, then do not need to connect the second blower (i.e. only 2 independent circuits required).*

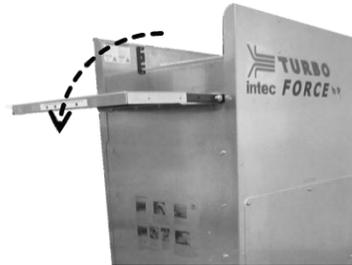


*Optional circuit; required if using 2<sup>nd</sup> blower.*

- Place the Loading Platform in down position by first lifting up, then rotating downwards to rest on top of the system's handle.



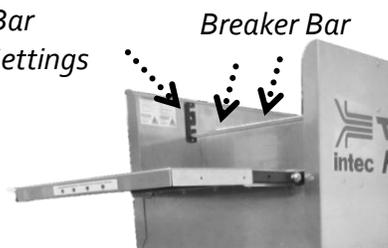
1. Lift Loading Platform up.



2. Rotate downwards to rest on system's handle.

- Set Breaker Bar: The breaker bar is used to slice through cellulose resulting in enhanced hopper utilization. When using stabilized cellulose, fiberglass, or stone wool, move the breaker bar up to its highest position (or remove bar from system) so it does not interfere with product when loading hopper.

Breaker Bar Adjustment Settings

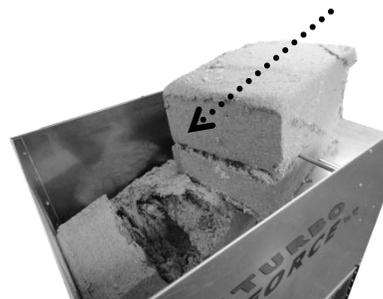


- Load Insulation -- Remove packaging and load insulation.

Cellulose:



1. Set bag on platform & remove plastic wrapping. Be sure no plastic goes into hopper.



2. Turn agitator on. Push bale thru bar & into hopper.

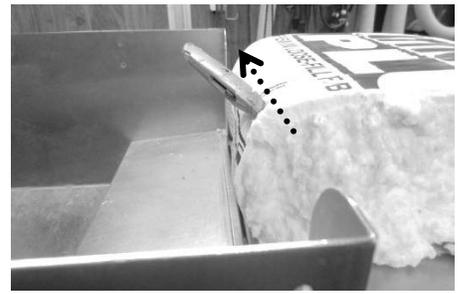
Fiberglass or Stone Wool:



1. *Cut bag in ½ all the way around.*



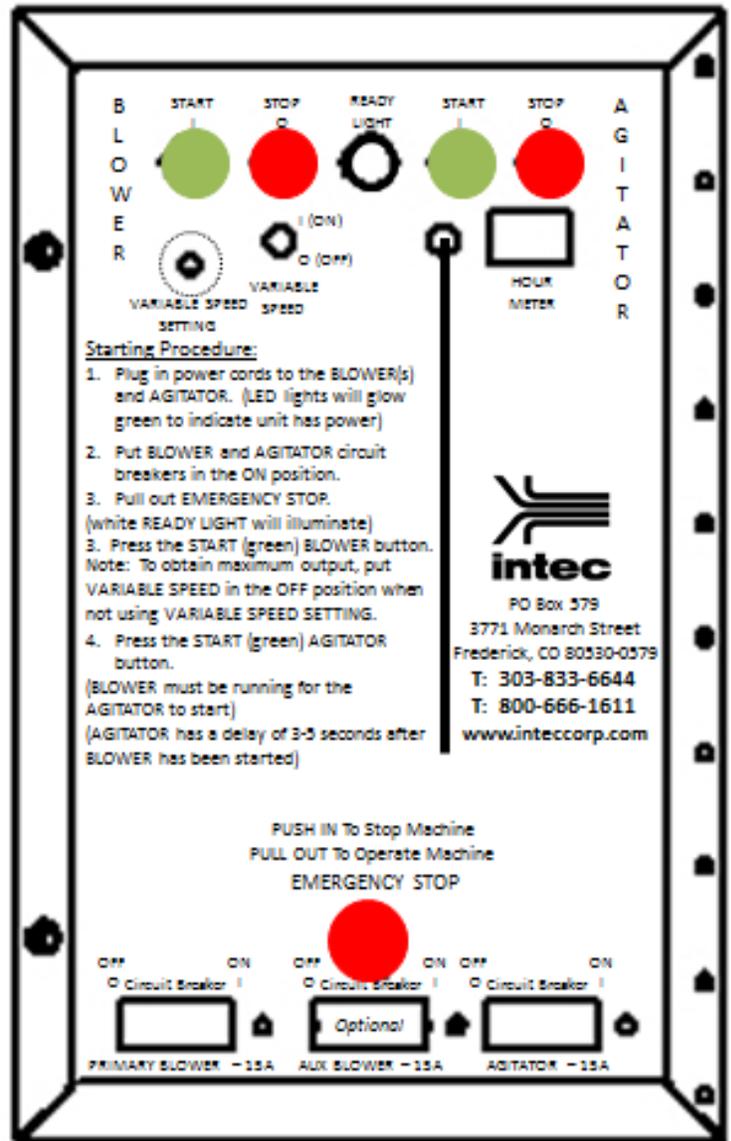
2. *Bend bag to break.*



3. *Place ½ bag on loading platform with open end facing towards a side & not into the hopper. Turn machine on. Slice wrapper in direction shown to allow product to expand into hopper. Keep plastic out of hopper.*

**System Operation:**

1. Energize System
  - a. Place *Primary Blower Circuit Breaker* in the 'on' position.
  - b. Place *Agitator Circuit Breaker* in the 'on' position.
  - c. For those having the hP3 system: If you desire to use the auxiliary blower, place *Aux Blower Circuit Breaker* in the 'on' position. If you do not desire to use the Auxiliary Blower, place the *Aux Blower Circuit Breaker* in the 'off' position.
  - d. Pull *Emergency Stop* out. *Ready Light* will glow white indicating system is ready for operation.
  
2. Activate System from either Electrical Panel or Wireless Transmitter
  - a. Press *Start Blower* button. Blower(s) that are energized will start. If you desire to run the *Primary Blower* only, then place the *Auxiliary Blower Circuit Breaker* in "off" position.
  - b. Press *Start Agitator* button. The blower has to be running for 3-4 seconds for the agitator to be able to start.
    - i. Note: The agitator will not start if the blower is not on.
    - ii. Note: The agitator has a delay of 3-5 seconds after BLOWER has been started.
    - iii. Note: Pressing the *Stop Agitator* button will stop the agitator only.
    - iv. Note: Pressing the *Stop Blower* button will shut the entire system since the agitator can only run when the blower is on.



Electrical Panel



Wireless Transmitter

3. Variable Speed Selection: The *Variable Speed* switch is a three position switch: 'on', neutral, and 'off'. The *Variable Speed* can be used to vary the speed of the *Primary Blower*. The *Variable Speed* does not control the *Auxiliary Blower*; the *Auxiliary Blower* is either full on, or off. To use the *Variable Speed*:
  - a. Place the *Variable Speed* switch in the 'on' position.

i. Note: It is typical to place the *Auxiliary Blower Circuit Breaker* in the 'off' position when using the *Variable Speed*.

b. Adjust the *Variable Speed Setting* to desired setting ranging from 100% to near 0%.

Note 1: To obtain maximum blower velocity and pressure, place the Variable Speed control in the off position. Placing the *Variable Speed* in the 'off' position provides more power to your system's blowers when compared to having the *Variable Speed* 'on' and *Variable Speed Setting* at 100%.

## Maintenance

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

### Cleaning

Clean the interior and 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. The machine has been designed to work in a dusty environment. However, without periodic cleaning and maintenance, the performance of the machine will decline potentially leading to failure.

### Cords

Your 12 gauge power cords are subject to considerable wear and tear during normal operation. Inspect all cords prior to use to ensure safe operation. If any damage is observed, be sure to repair or replace before operating the machine to avoid personal injury. Note: Do not pull on power cords while plugged into machine as damage may occur.

### Airlock and Seals

The airlock assembly is one the most important items to keep in good condition. Foreign objects in the airlock can cause damage and reduce the machine's production. Seal failure is the most common airlock assembly failure. Seal failure prevents the airlock from holding the proper pressure. Seal failure will reduce the machine's production. A machine with seal failure will have air blow out of the airlock into the hopper, reducing the amount of air exiting the machine outlet. It is recommended to visually inspect seals each week to ensure proper running condition. Replace airlock seals if a cut or tear is evident. Airlock seals should be replaced every 300 hours of operation, or once per year. Visit [www.inteccorp.com](http://www.inteccorp.com) or contact Intec for replacement instructions.

### Chain

Clean and lubricate the chain once per year. Use a dry lubricant when lubricating the chain; do not use oil as oil will attract foreign particles like dust to chain. If the machine is often used in dusty conditions, then clean and lubricate the chain more frequently than once per year.

### Blower Filters

The blower's air intake and fan motor filters should be cleaned every use to avoid potential blower motor overheating. Simply slide filter from holder, use compressed air or knock filter on a hard surface to remove contaminants, and replace filter in the appropriate holder on machine.

## Intec Quick-Access™ - IQ<sub>A</sub>

We understand that at times:

- maintenance – no matter how infrequent – is beneficial where you will need to check & replace airlock seals, clean filters, and dry lubricate chains, or
- foreign items enter the hopper and need to be removed, and
- unexpected repairs are required at times.

Making these activities as easy & efficient as possible -- so you can get back up and running in the quickest of manners -- is why Intec Quick-Access was developed. IQ<sub>A</sub>™ was designed to further your efficiencies by reducing the time it takes to access critical system components. From the revolutionary tilt-back design providing access to the airlock, hopper, agitator and airlock motors, and blowers, to the quick-access chains, electrical components, filters, and slide gate settings, we expect you will find value with the IQ<sub>A</sub> features:

### IQ<sub>A</sub> Revolutionary Tilt-Back Design



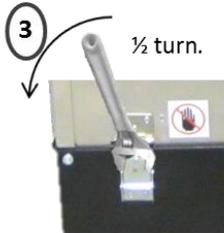
Place system on a level, dry surface.

*Lugar sistema sobre una superficie seca y nivelada.*



Disconnect all power cords.

*Desconecte todos los cables de alimentación.*



Unlock both latches.

*Desbloquear los dos pestillos*



Open both latches.

*Abra los dos pestillos.*



Tilt top section back. Caution: ensure stable footing & adequate space.

*Incline la parte superior atrás. Precaución: asegúrese de equilibrio es estable, y un espacio adecuado para abrir.*



Use handle to support top section of machine.

*Utilice la manija para apoyar sección superior de la máquina.*

**WARNING – Never open system or remove guards when machine is connected to electricity.**

**Be careful of finger pinch points when using Intec Quick-Access.**

**ADVERTENCIA - Nunca sistema abierto o remueva la guarda cuando la máquina esté conectada a la electricidad.**

**Siempre tenga cuidado con los puntos de pellizco del dedo cuando se utiliza Intec Quick-Access.**

### IQ<sub>A</sub> Chains

Removing the access panel provides access to the chain driving the two agitators. The airlock chain is accessed thru the revolutionary tilt-back design.



### IQ<sub>A</sub> Electrical Components

Opening the electrical panel provides access to the electronics controlling your TURBO FORCE.



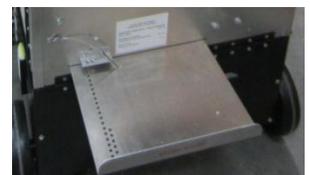
### IQ<sub>A</sub> Filters

Simply slide filter from holder, use compressed air or knock filter on a hard surface to remove contaminants, and replace filter in the appropriate holder on machine.



### IQ<sub>A</sub> Slide Gate Settings

Pull the pin, slide gate to recommended setting, and you are on your way towards obtaining appropriately conditioned insulation for the task at hand.



## TroubleShooting

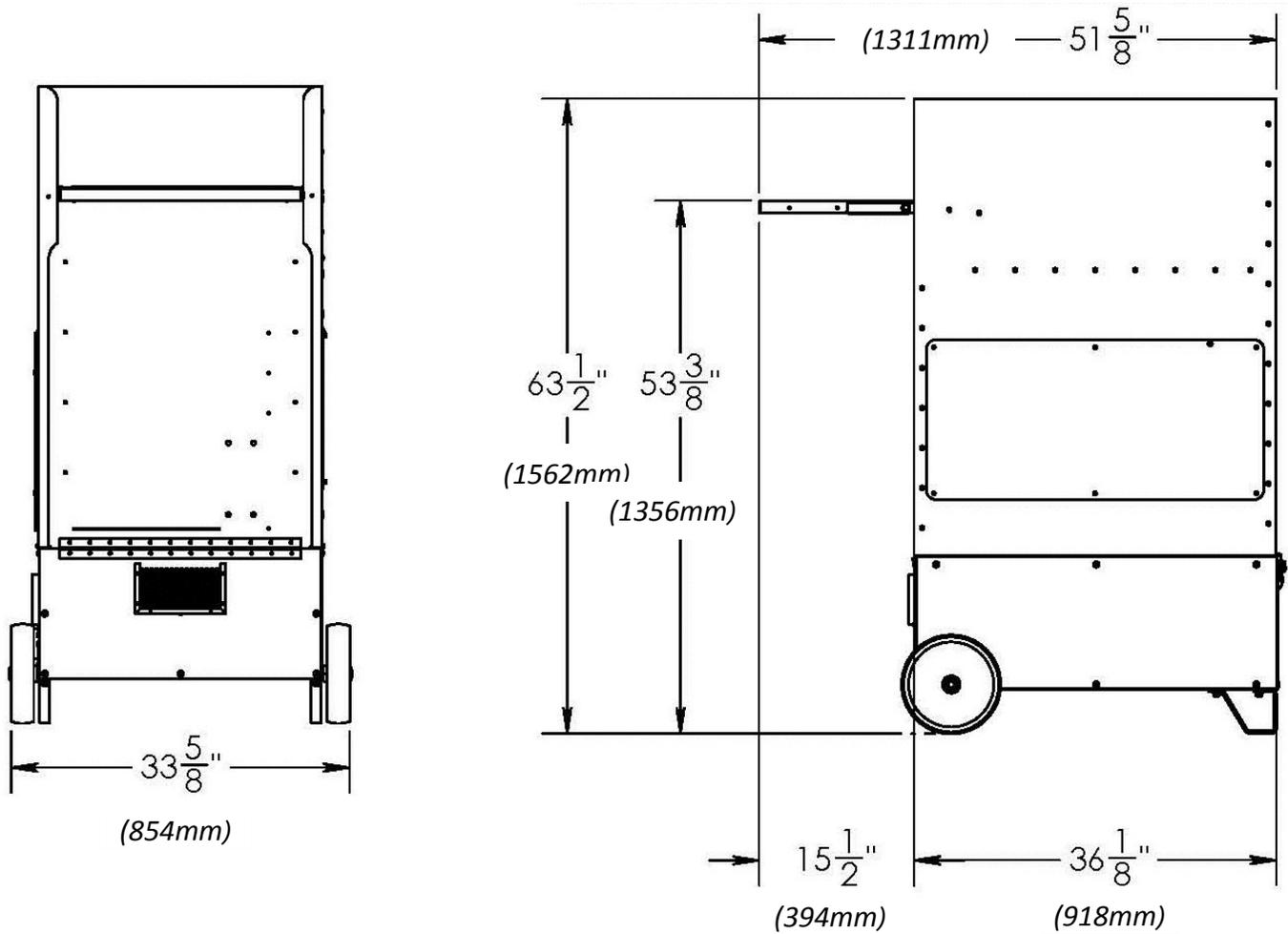
| Problem  | Likely Cause   | Remedy  |
|--|--|---|
| Ready Light does not light up.                                       | Power cord connection is loose.                              | Ensure appropriate power cord connection at machine.<br>Ensure appropriate power cord connection at power source. |
|  | Power cord not connected at machine or power source.         | Connect power cord.   |
|  | Emergency stop button has not been pulled out.               | Pull out emergency stop bottom.   |
|  | Machine's blower or agitator circuit breaker(s) has tripped. | Push to reset circuit breaker(s).   |
|  | Circuit breaker at power source as tripped.                  | Reset circuit breaker.  |
|  | Electrical system may have a loose wire.                     | Have the system inspected by a qualified technician.  |
|  | Blower does not run.   | Primary Blower's circuit breaker needs to be in the 'on' position.  |
| Auxiliary Blower's circuit breaker needs to be in the 'on' position. |  | Place Auxiliary Blower's circuit breaker in the 'on' position.  |
| Variable Speed switch is in the neutral position.                    |  | Place Variable Speed switch in either the 'off' or 'on' position.   |
| Blower contactor overload activated.                                 |  | Let system cool. If happens often, contact Intec for settings.  |
| Worn brushes in blower motor.  |  | Have a qualified technician replace blower brushes or replace blower motor.                                       |
| Agitator does not run.   | Blower has to be on for agitator to come on.                 | Turn blower on.   |
|  | Blower has not been on for 3-4 seconds.                      | Agitator time delay requires blower to be on for 3-4 seconds for agitator to activate.                            |
|  | Agitator circuit breaker needs to be in the 'on' position.   | Place Agitator circuit breaker in the 'on' position.  |
|  | Foreign material causing jam in hopper.                      | Remove power cords, clear jam, and restart system.  |
|  | Blower contactor overload activated.                         | Let system cool. If happens often, contact Intec for settings.  |

| Problem   | Likely Cause   | Remedy  |
|---|--|---|
| Machine is on, yet no material comes out of hose.   | Slide gate is closed.  | Open slide gate.  |
|   | Insulation blockage in hose.   | Turn system off, remove hose and clear blockage.  |
|   | Blower is off.   | Turn blower on.   |
|   | Air pocket in hopper is preventing insulation from feeding into agitators. | Disconnect electrical power. Redistribute insulation material inside hopper.                |
|   | Airlock seal is worn.  | Inspect airlock seals for cuts and wear. Have a qualified technician replace airlock seals. |
|   | Airlock has an obstruction preventing insulation from exiting.             | Disconnect electrical power, remove obstruction.  |
| Variable Speed is 'on' and Variable Speed Setting is below 100%, yet still a lot of air flow. | Auxiliary blower is on.  | Place the Auxiliary Blower Circuit Breaker in the 'off' position.                           |
|   | Variable Speed Setting needs to be decreased.                              | Reduce Variable Speed Setting closer towards zero.  |

| Problem   | Likely Cause                         | Remedy  |
|---|--------------------------------------|---|
| Insulation exiting hose is dribbling out.                 | Heavy insulation material.           | Push slide gate in 1-2 holes.   |
|   |                                      | Turn on Auxiliary Blower.   |
|   | Kink in hose.                        | Straighten hose.  |
|   | Airlock seal is worn.                | Inspect airlock seals for cuts and wear. Have a qualified technician replace airlock seals. |
| Circuit breakers need resetting often.                    | Low voltage or low amperage.         | System requires 115V / 15amp separate circuit for agitator and each blower.                 |
|   | Extension cord gauge is too small.   | Use a 12/3 heavy duty (i.e. SJ300V) extension cord with 115V.                               |
|   | Chain is not aligned with sprockets. | Disconnect electrical power. Have a qualified technician realign chain and sprockets.       |
| Machine makes a banging noise when agitator is operating. | Chain is loose.                      | Disconnect electrical power. Have a qualified technician adjust chain tensioner.            |
|   |                                      | Adjust chain tensioner.   |
|   | Chain is not aligned with sprockets. | Disconnect electrical power. Have a qualified technician realign chain and sprockets.       |

## Specifications

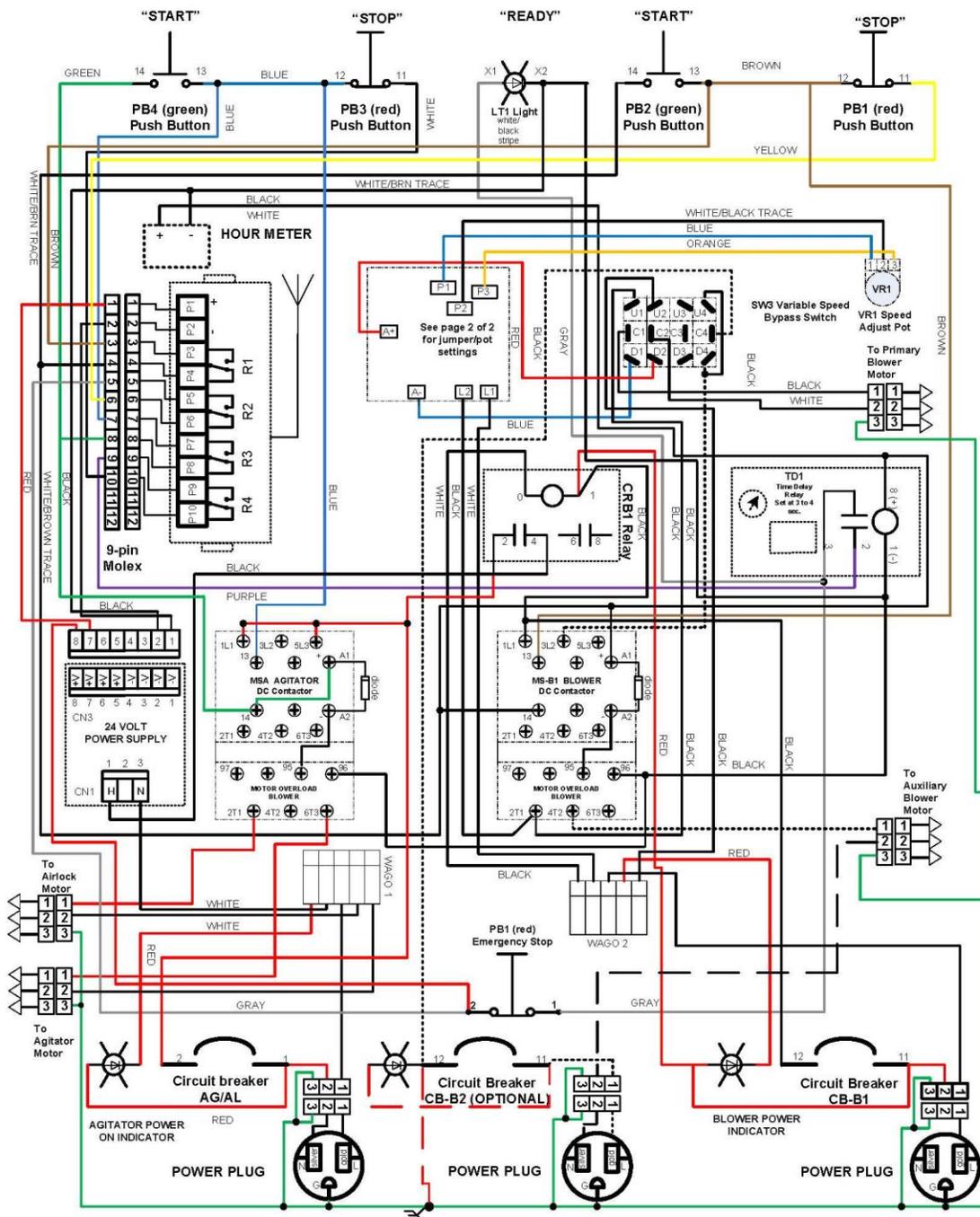
|                    |   |
|--------------------|---|
| Weight             | 385 lbs<br>175 kg   |
| Blower             | 115 VAC, 14.3 amp, single stage   |
| Agitator Motor     | ½ HP, 115VAC, 7.8 amp   |
| Airlock Motor      | ½ HP, 115VAC, 7.8 amp   |
| Power Requirements | 2-115VAC, 60 Hz, 15 amp circuits for standard<br>3-115VAC, 60 Hz, 15 amp circuits for hp <sub>3</sub> |



# Electrical Drawing

**Turbo Force USA Service Wiring Diagram Equipment Interconnections**

Rev 2  
Date: 10/1/12  
Intec



## 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  |
|--|---|
| <p>1 <b><i>DAMAGE in Transit</i></b></p> <p>A Visible <b><u>PRIOR</u></b> to unpacking (Damage to carton or packing material).</p> <p>B Visible <b><u>AFTER</u></b> unpacking (Only apparent when unpacked).</p> <p>C Shortage (# containers does not agree to transportation bill).</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>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>2 <b><i>Items received not correct</i></b></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</p>   |
| <p>3 <b><i>Issue within the warranty period</i></b></p> <p>A Troubleshooting (machine or part not operating as intended).</p> <p>B Replacement part(s).</p>  | <p>Contact Intec Customer Service</p> <p>Contact Intec Customer Service</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>4 <b><i>Issue outside of warranty period</i></b></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</p>   |

## 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 one (1) Year Limited Warranty, and no other, for its insulation blowing machines (MACHINES):

- 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 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 blowers, electrical and air lock components, which are warranted 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 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.