

INSPECTIONS - RECOMMENDATIONS

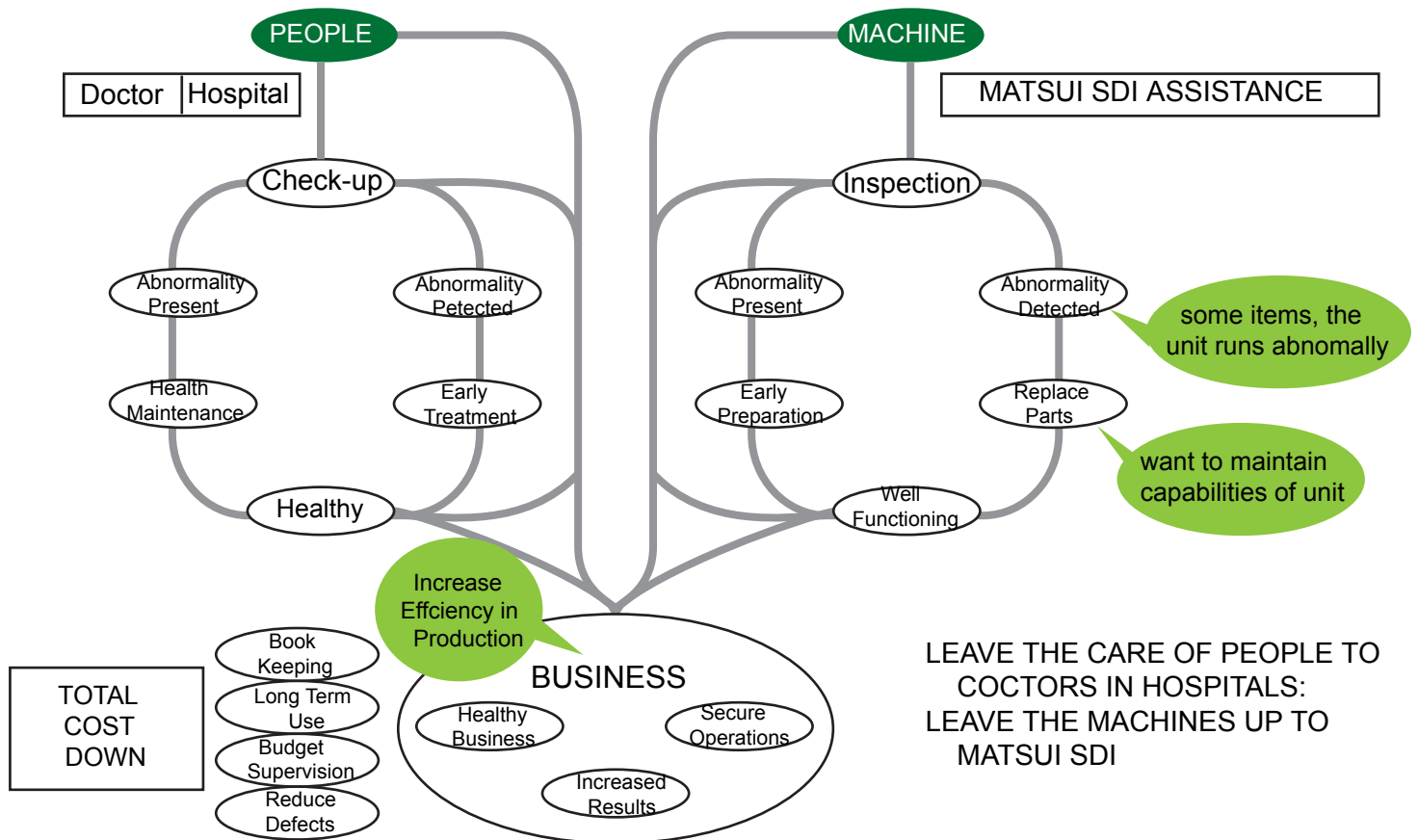
(for all types of motors)

ABOUT THE ITEMS PURCHASED:

We recommend periodic inspections in order for customers to be able to use the items under stable conditions

STRIVING FOR GOOD BUSINESS AND PROPERITY

Labor and Machines together.....
The periodic "check-ups" both need are.....



Please use for maintenance and preservation after obtaining ISO 9000 license

FOUR "SAFETIES" FROM PERIODIC INSPECTIONS

Maintenance of Capabilities

- * Through periodic maintenance, unit will keep characteristics and capabilities.

Increase in production rate

- * Unit will constantly run in top conditions and improve productivity.
- * Should unexpected issues take place, we will set up the best service that will respond promptly to one phone call.

Increased safety

- * Service person will check the condition of the unit and will either repair, adjust or replace parts immediately.

Economic

- * Reduction in per call service fees.
- * More efficient in maintenance.

INSPECTIONS - RECOMMENDATIONS

(for all types of motors)

INSPECT UNITS BEFOREHAND

(Recommending Prevention and Periodic Inspection)

Increase production capabilities by early detection of worn parts and signs of regression during daily usage



By observation and periodic checks by observation and use of measuring devices, check noise, temperature, vibrations and bearing noise.

- * Periodic measurements using measuring units
- * Check functions, breakage and damage

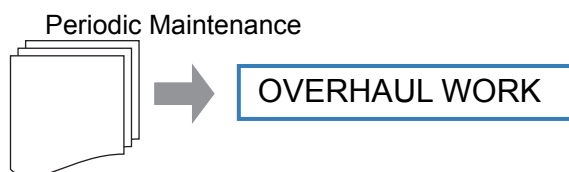
POINT INSPECTION

M/C TYPE	MODEL	INSPECTION	OVERHAUL
JET LOADER	JL-V, VC, VBF Series JL-2V, VC Series	*Check function and conveyance *Check hose damage *Loose bolts *Check air leaks *Check noise *Inspect Collecting Hoppers *Measure every electrical item	*Repair function of collector *Disassemble blower and replace bearing *Cleaning, coat part of unit *Replace filter
HOPPER DRYER	HD, HD-2 Series MGD (plas-aid series)	*Check function and conveyance *Check hose damage *Loose bolts *Check air leaks *Check noise *Inspect Collecting Hoppers *Measure every electrical item	*Disassemble heater and heater box *Disassemble blower *Clean inside of hopper *Replace packing parts
DEHUMIDIFYING DRYER	MJ, DMZ, DMZ2 Series MJ3 (plas-aid series)	*Check function and conveyance *Check hose damage *Loose bolts *Check air leaks *Check noise *Inspect Collecting Hoppers *Measure every electrical item *Measure dew point and air flow	*Disassemble honeycomb rotor *Disassemble heater and heater box *Disassemble blower *Clean inside of hopper *Replace packing parts *Check changeover valve
MOLD TEMPERATURE CONTROLLER	MC3, MCN, MCJ, MCQ Series GMC (plas-aid series)	*Check function and conveyance *Check damage on fluid hose *Check noise, looseness at each area *Measure actual temperature *Measure every electrical item	*Disassemble tanks, pumps and maintain *Clean/replace heater *Disassemble solenoid valve and clean *Replace packing parts

* On other units, there are special cautionary points involved. Please review action items separately.

[PERIODIC OVERHAUL- RECOMMENDATIONS]

Use the point inspection list to periodically inspect the units inside based on needs, check worn areas and overhaul by checking life span. Also replace defective parts and renew unit.



- * Disassemble blower motor, pump and replace worn internal parts, bearing and seals.
- * Clean the tanks, hopper areas and scales.

INSPECTIONS - RECOMMENDATIONS

(for all types of motors)

OVERHAULS - EXAMPLES

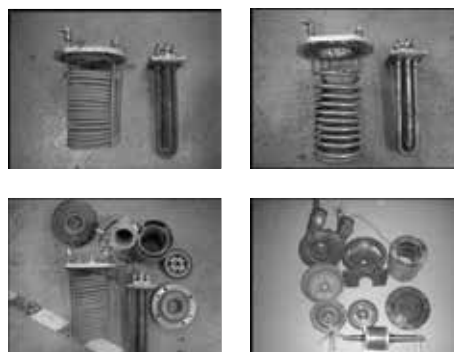
MOLD TEMPERATURE CONTROLLER

BEFORE	AFTER
<p>[ISSUES]</p> <ul style="list-style-type: none"> * Difficulty in increasing temperatures * Capabilities declining, slower temperature increases * More water leaks * Declining capabilities 	<p>[RESULTS]</p> <ul style="list-style-type: none"> * clean & replace electrical parts and solenoid valves * Clean heater to speed up temperature increase * Clean out scales in pipes to restore flow * Recovery of capabilities by breaking down and cleaning pumps

[BEFORE WORK]



[DURING OVERHAUL]



RESULTS

- * Flow rate recovery, unit has capabilities back (i.e. pressure back to initial settings)
- * Faster temperature rising time, shorter steps for changes
- * Reduced solenoid valve troubles

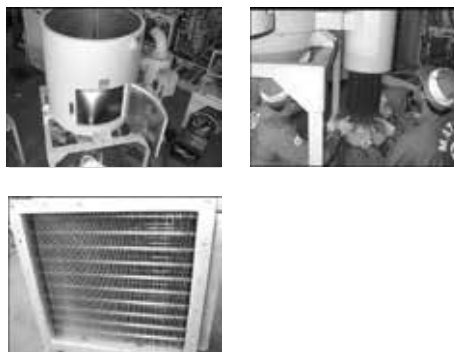
DEHUMIDIFYING DRYER

BEFORE	AFTER
<p>[ISSUES]</p> <ul style="list-style-type: none"> * Decline in drying rate a concern * Temperature control unstable * Poor convey conditions * Defective molds developing from drying defects 	<p>[RESULTS]</p> <ul style="list-style-type: none"> * Check functions by measuring dew point and fluid. Retained capabilities through maintenance work * Recovered regenerate and drying line * After disassembly work of areas such as convey troubles * After inspecting collecting hopper, capabilities recovered * Product quality improved

[BEFORE WORK]



[DURING OVERHAUL]



RESULTS

- * Drying capabilities improved, production rate increased. (i.e. air flow and dew point conditions)
- * Reduced troubles of moving drying materials. (i.e. reduced small stops)
- * Reduced contamination

INSPECTIONS - RECOMMENDATIONS

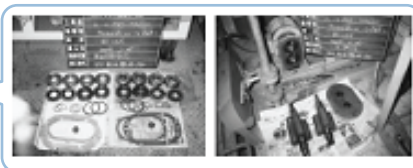
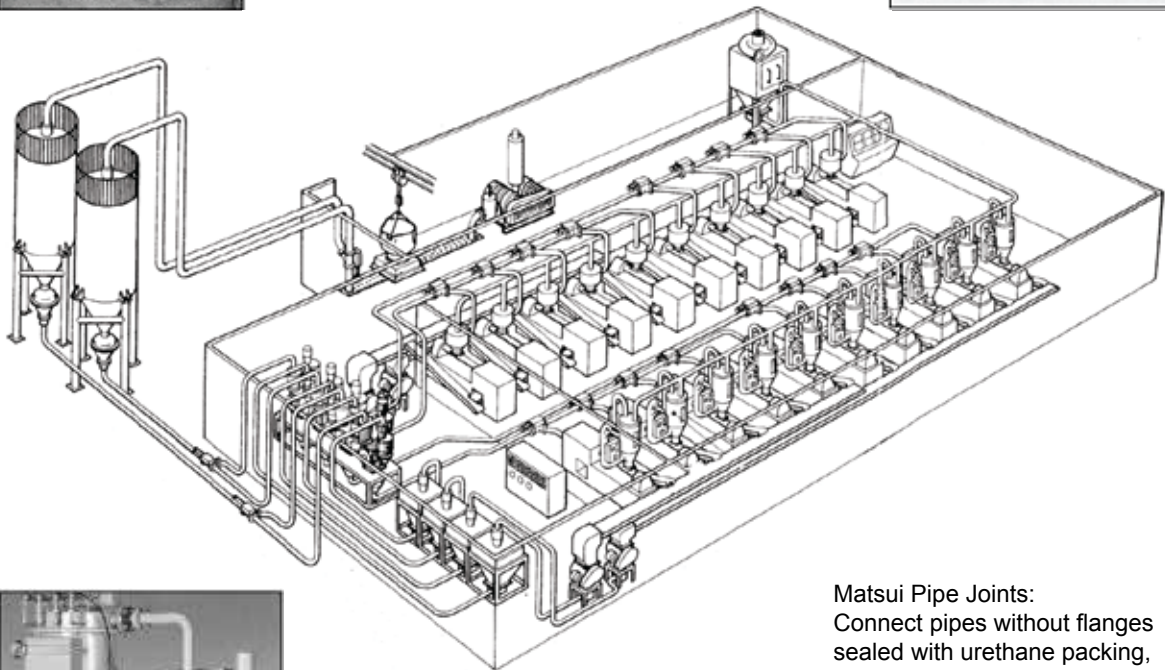
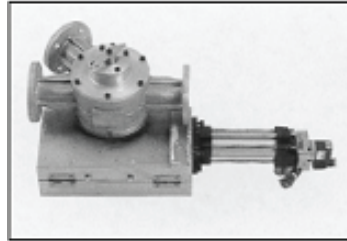
(for all types of motors)

SYSTEM UNITS

BEFORE	AFTER
<p>[ISSUES]</p> <ul style="list-style-type: none"> * Decline in conveying strength, material outage a concern * Frequent alarms * Small stops from feeding increasing * Air leaks a concern * Unit as a whole is aging 	<p>[RESULTS]</p> <ul style="list-style-type: none"> * Capabilities to recover after replacing or cleaning the filter * Air leaks from pipes and collecting hopper eliminated * Reduced stops after desassembly work on change-over valves and set-up parts * Maintenance of setup units by point repairs on running conditions of overall system * Production Rate increases and overload from on-site work is initiated

RESULTS

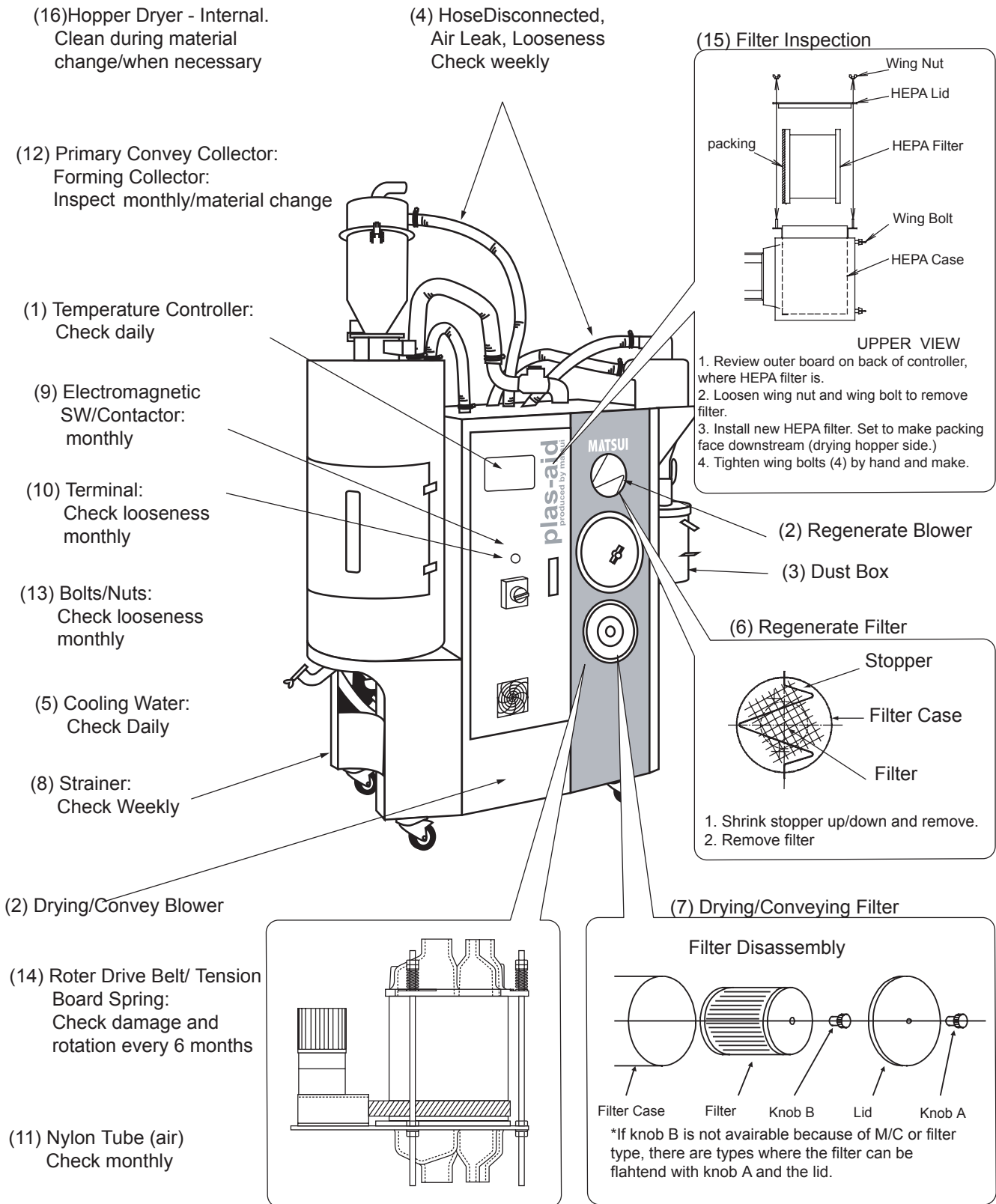
- * System troubles reduced
- * Was able to do maintenance work on areas usually difficult through concentrated maintenance
- * Able to maintain safety functions of the units, reduced small stops and increased productivity



Matsui Pipe Joints:
Connect pipes without flanges
sealed with urethane packing,
preventing air leaks
Clamp version also available

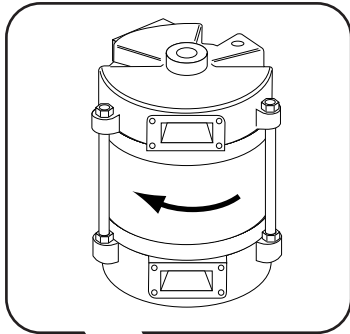


All-In-One Dehumidifier/Dryer/Loader (DMD4) Maintenance

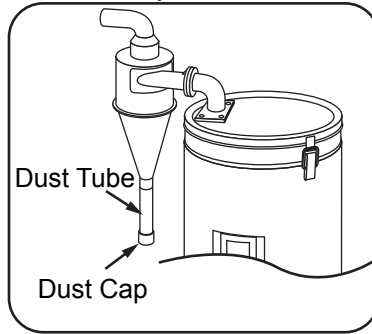


DHEUMIDIFYING DRYER (DMZ) Maintenance

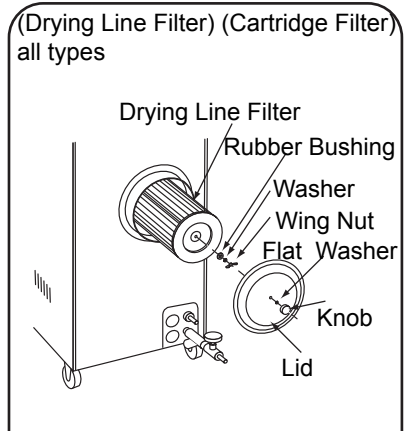
(5) Honeycomb Rotor: Check rotation every six months



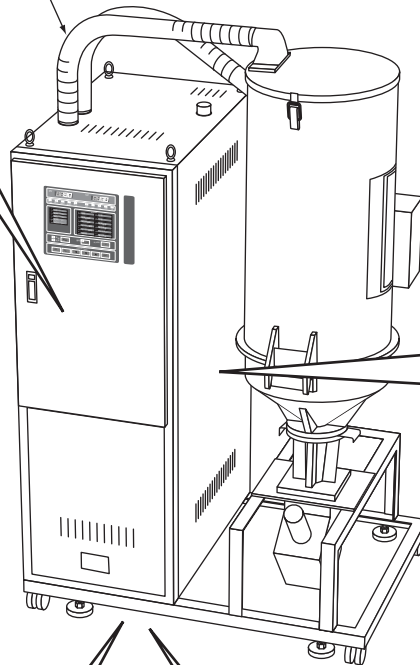
(2) Dust Tube: Clean Daily



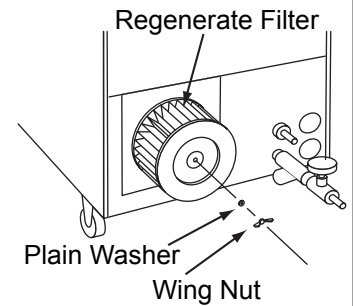
(3) Filter: Clean weekly



(4) Hose Disconnection/Air Leak: Check looseness weekly

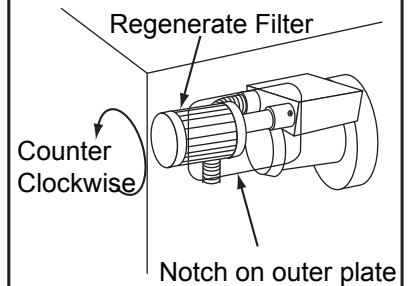


(Regenerate Filter)(Cartridge Filter) for DMZ-40

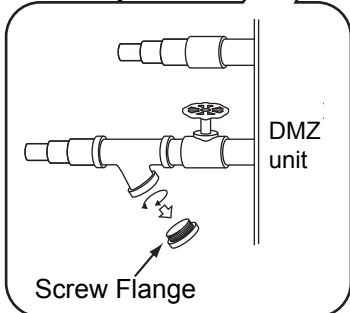


(7) Bolts/Nuts: Check every 6 months

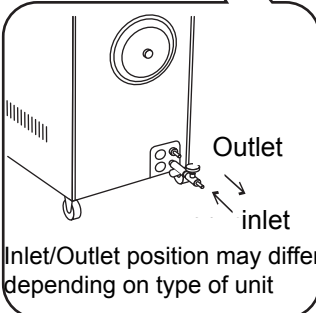
(Regenerate Filter) (Cartridge Filter) for DMZ-80 and 120



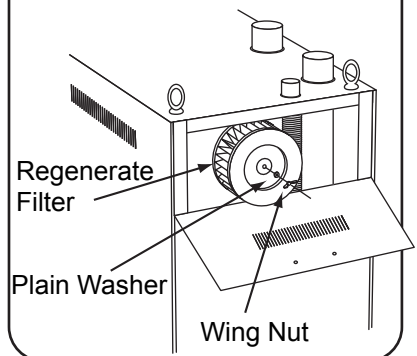
(6) Strainer: Clean every 6 months



(1) Cooling Water: Check flow amount

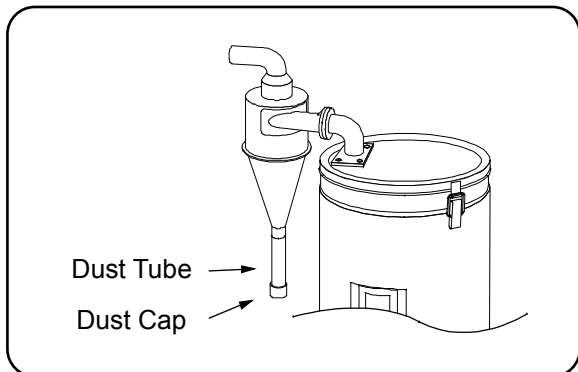


(Regenerate Filter) (Cartridge Filter) for DMZ-170 and 240



Dehumidifying Dryer (DMZ2, DMS2)- Maintenance/Inspection

(3) Dust Tube "When using single-pass specifications (not common)



(4) Hose Disconnection, Air Leak, Looseness Checks: Weekly

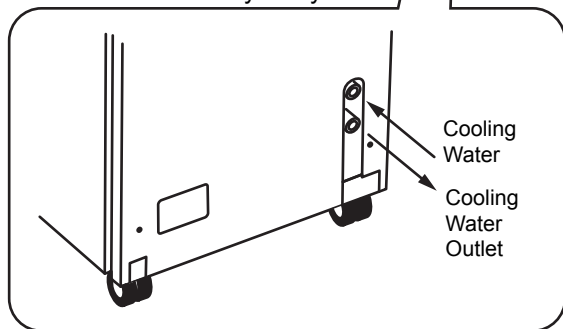
(1) Temperature Controller Check Daily

(6) Electromagnetic Switch/Contact Inspect Weekly

(7) Terminals Check Looseness Monthly

(8) Bolts/Nuts Check Looseness every 3 Months

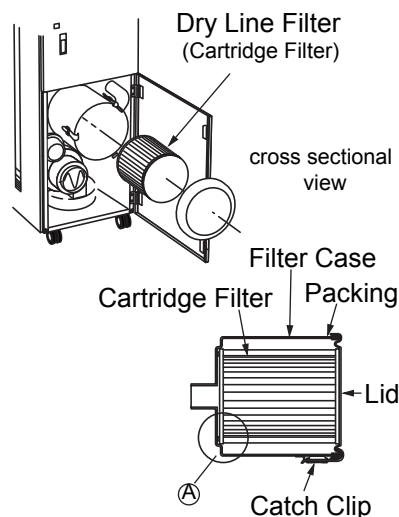
(2) Cooling Water Check Quantity Daily



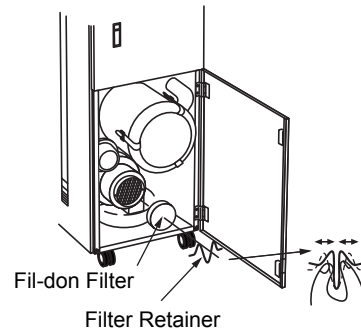
(5) Filter Clean: Weekly

(Dry Line Filter) (Cartridge Filter)

Firmly set filter on catch clips. Make sure "A" section is not misaligned. Also, securely close lid to prevent air leaks.

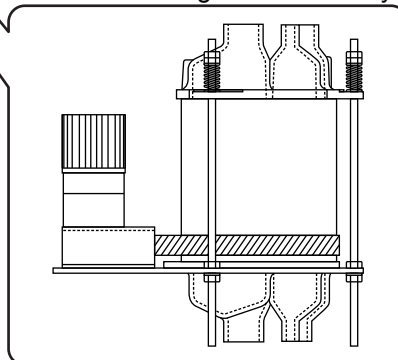


(Regeneration Filter) (Fil-don Filter)

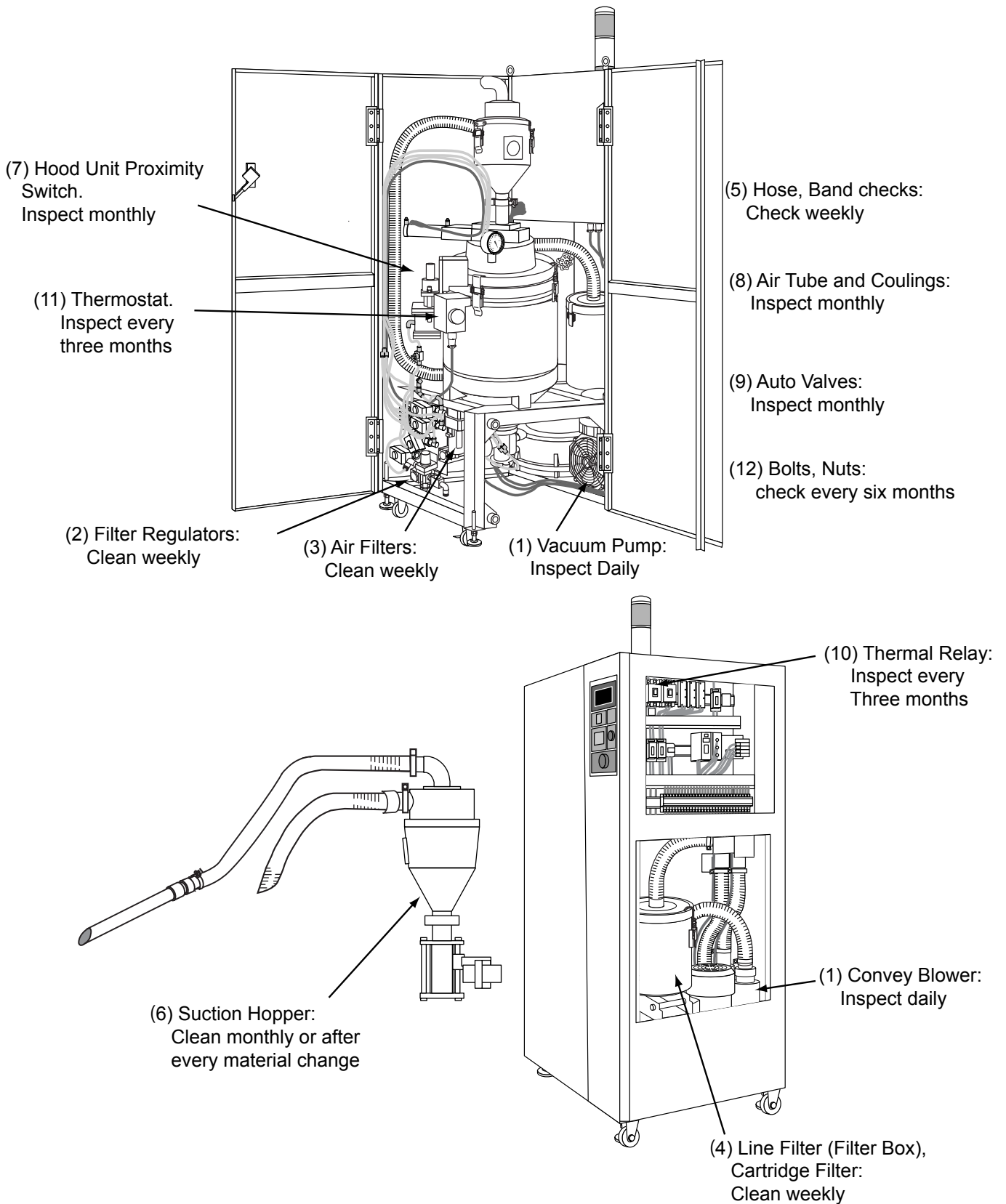


Pinch this section with Fingers and remove/install

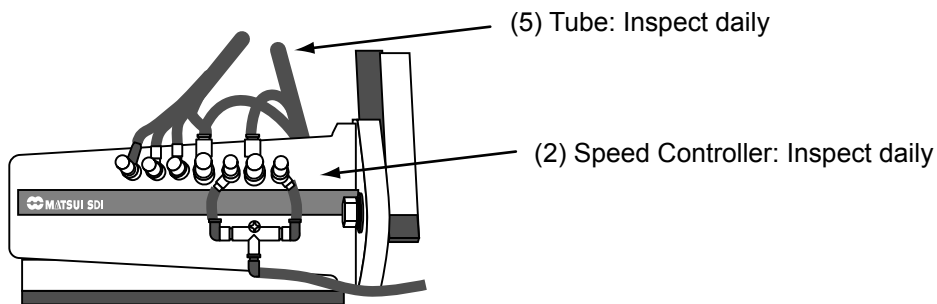
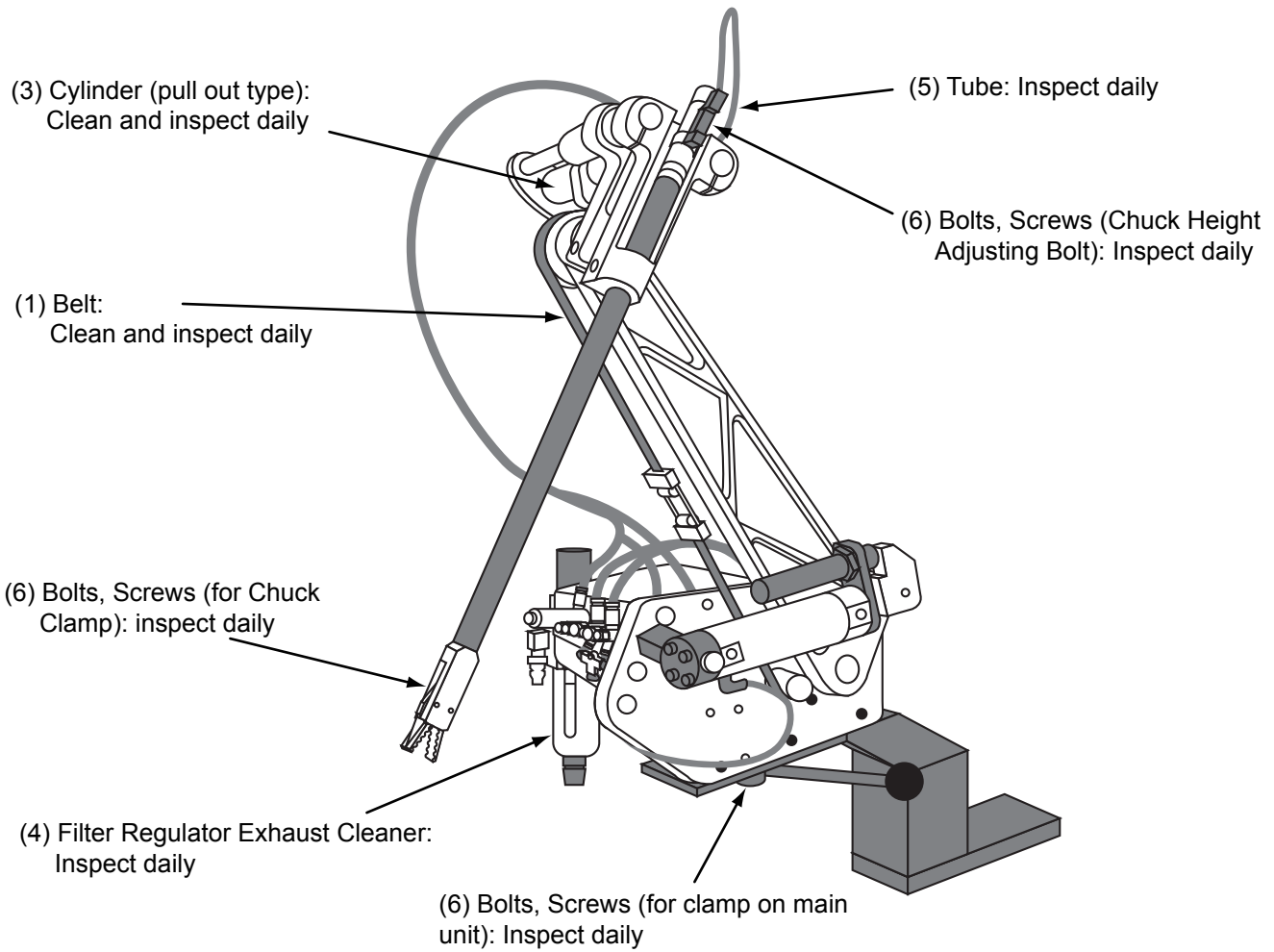
(9) Rotor Drive Belt Check for damage/rotation every 6 months



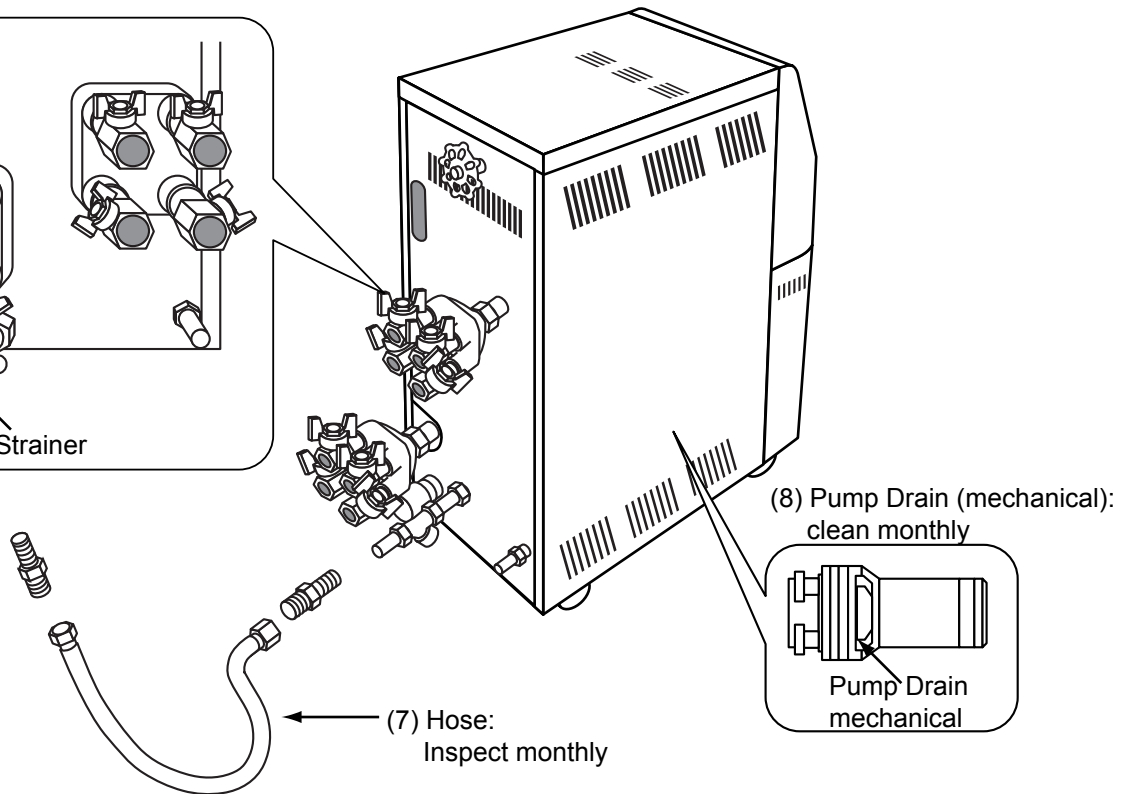
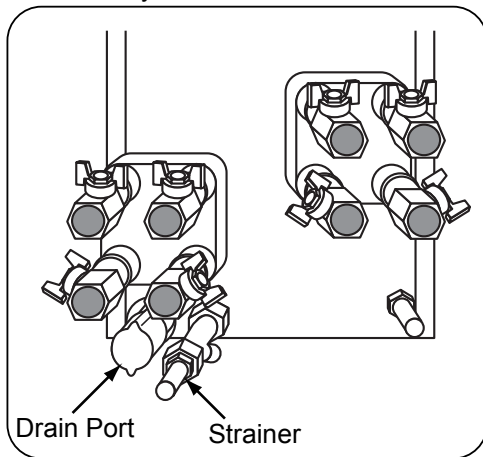
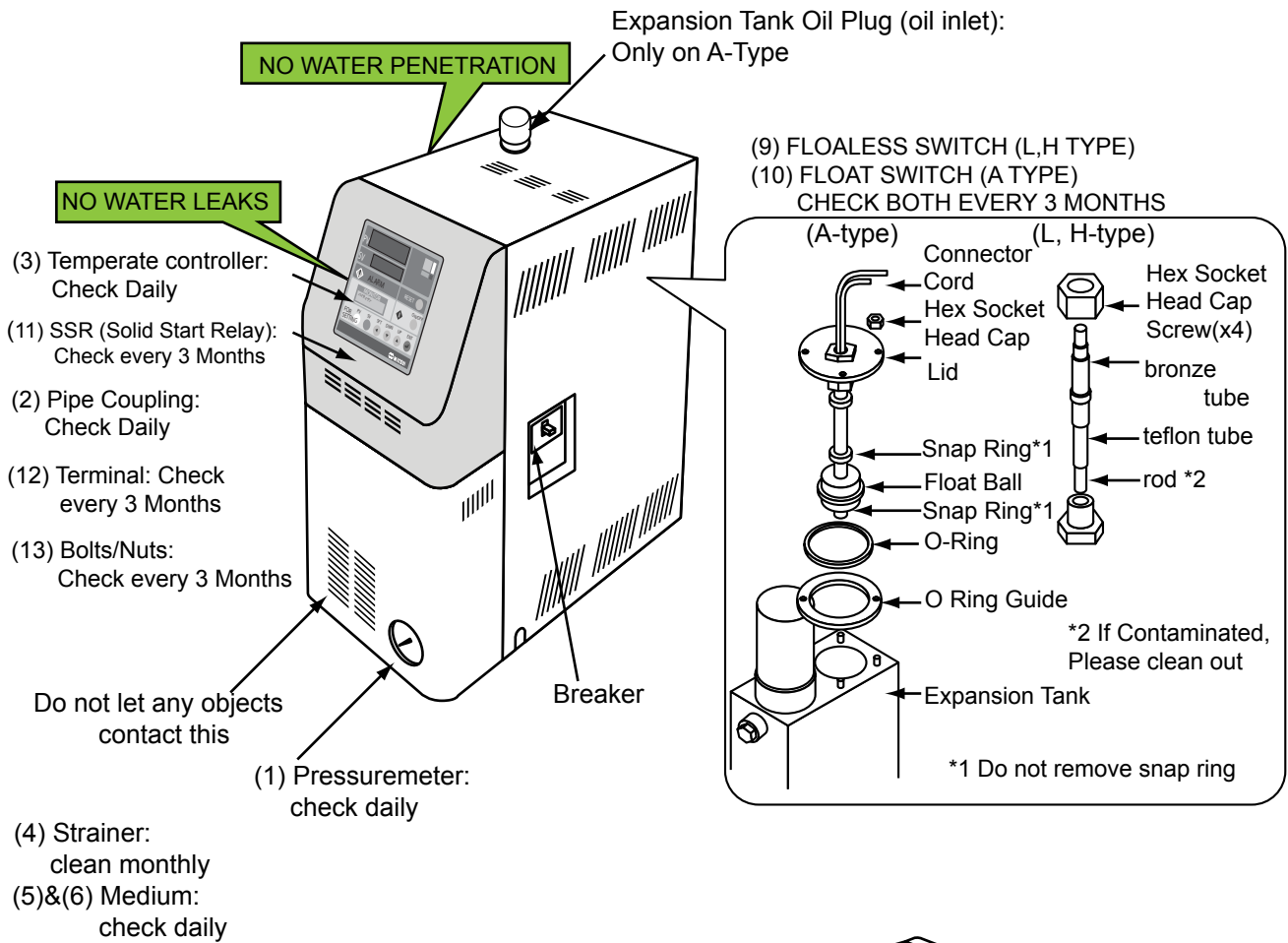
Thermal Conduction Vacuum Dryer (DPD-3) Maintenance



E-300 TYPE MAINTENANCE

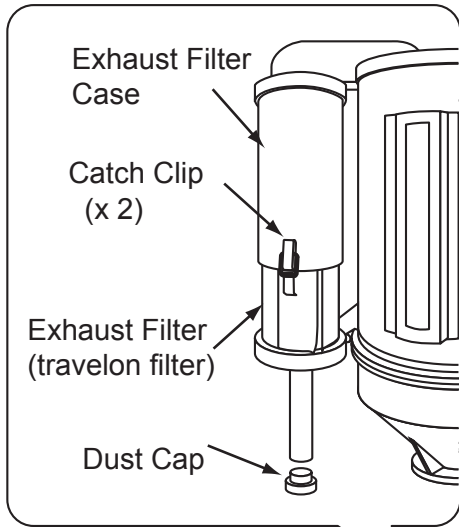


Mold Temperature Controller (MCJ, MCQ, GMC) Maintenance/Inspection

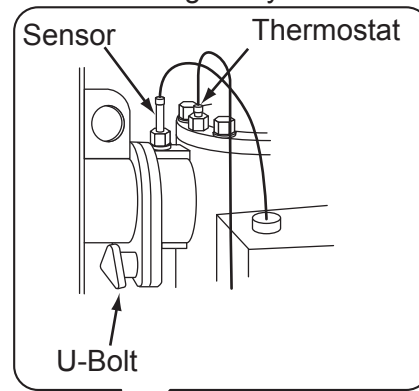


Portable Hot Air Dryer HD2 Type Maintenance

(2) Exhaust Filter (travelon filter) - Clean every week

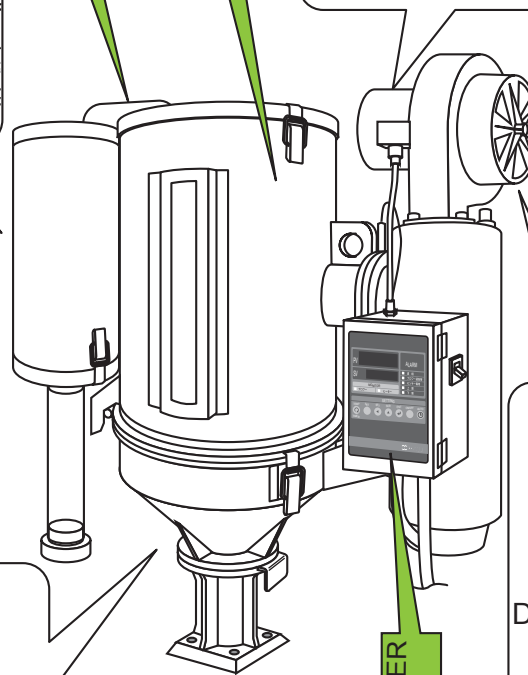


(4) U-Bolt - Check looseness every week
(4) Sensor - Check for any deforming and loose fitting every week

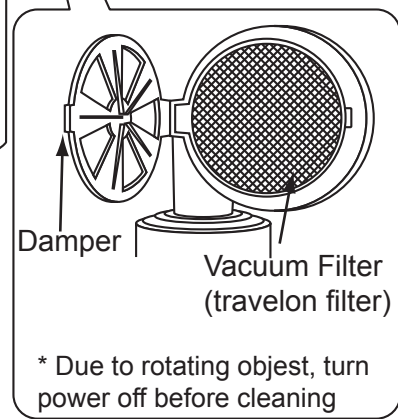


DO NOT LOAD OBJECTS

CAUTION: HIGH TEMPERATURE!

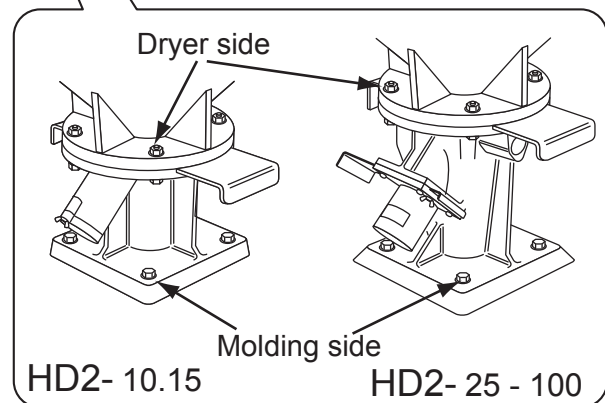
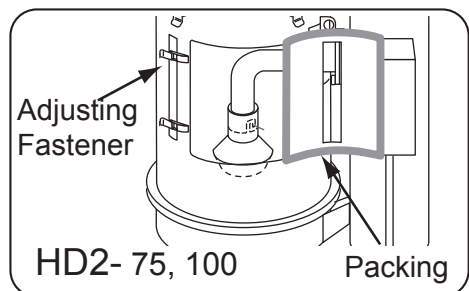
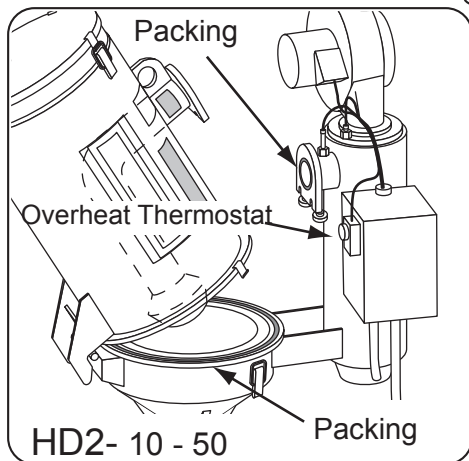


(3) Vacuum Filter (travelon filter): Clean every week

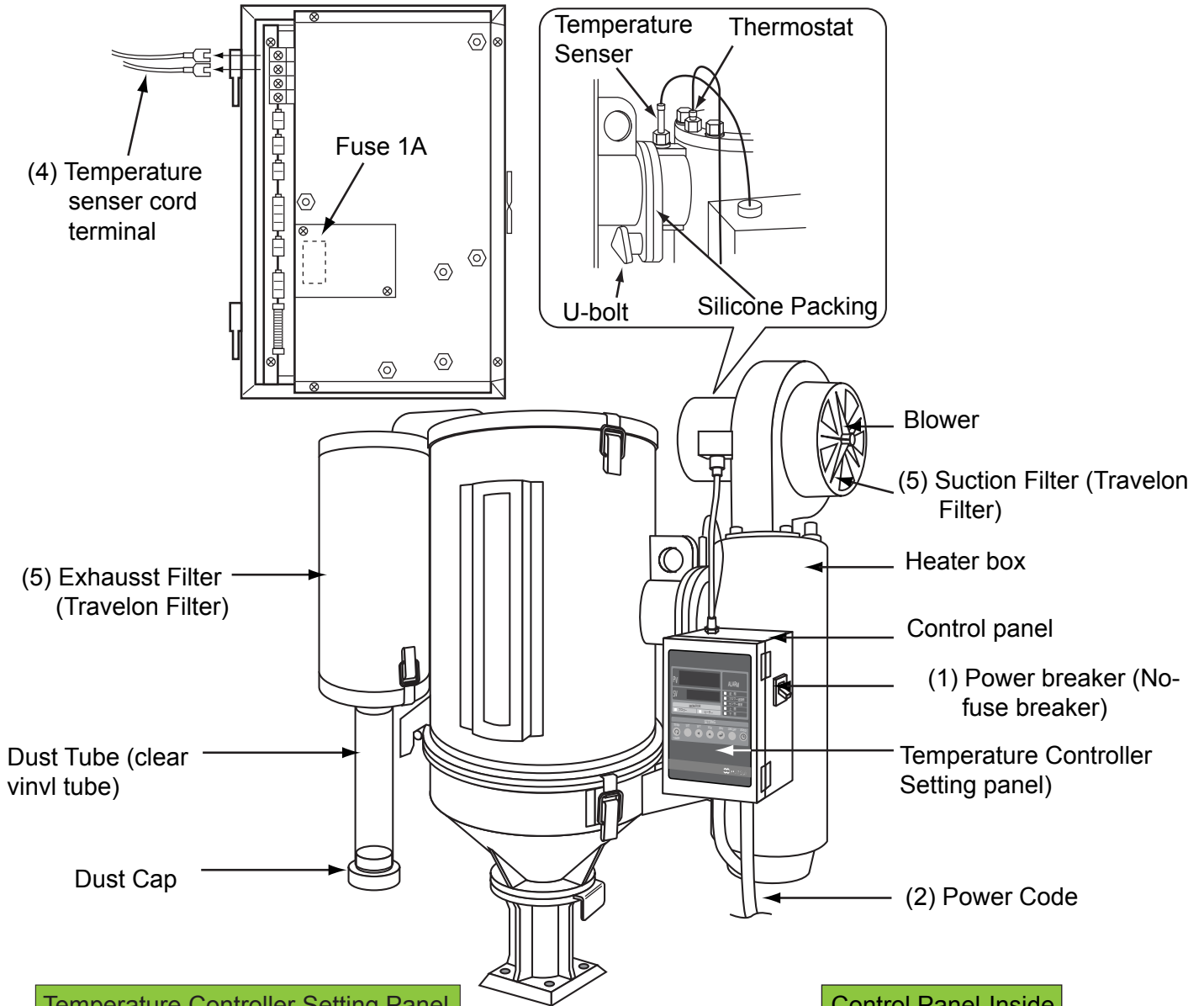


KEEP WATER OFF!

(1) Packing (all) - Check after every cleaning



Portable Hot Air Dryer HD2 Type Maintenance



Temperature Controller Setting Panel

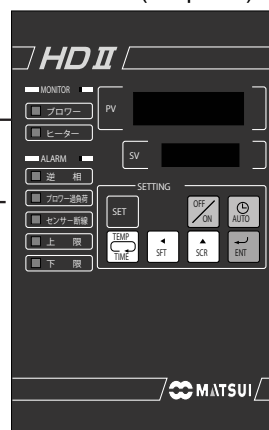
Control Panel-Inside

(7) E5ZA-5J (new panel)

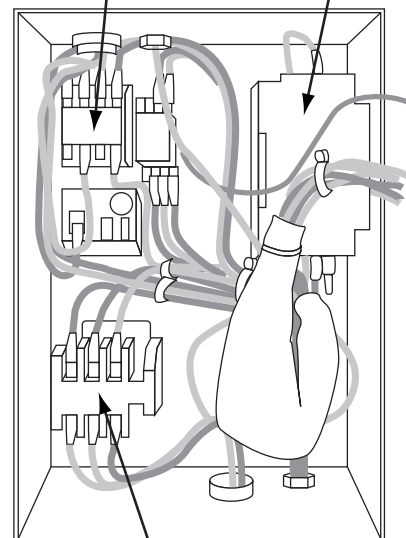


- ALARM**
Will display alarms
- Reverse Phase
 - Blower Overload
 - Sensor Disconnect
 - Upper Limit
 - Lower Limit
- MONITOR**
Will display conditions of each unit
- Blower
 - Heater

(7) HD2 - CP - J (old panel)



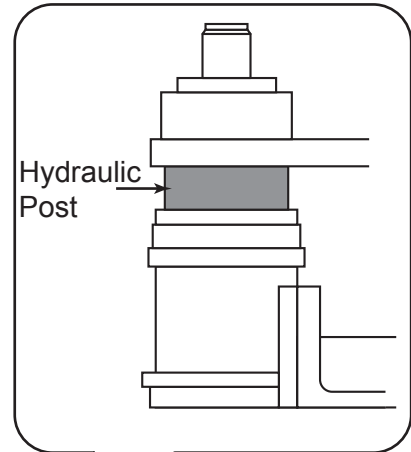
(3) Electromagnetic switch (Therma relay) (1) Power (No fuse breaker)



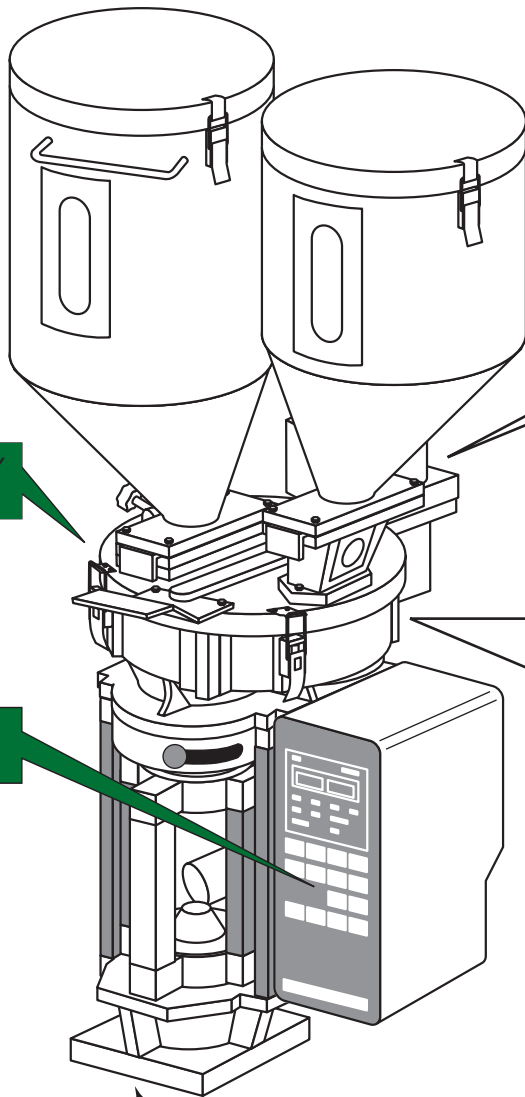
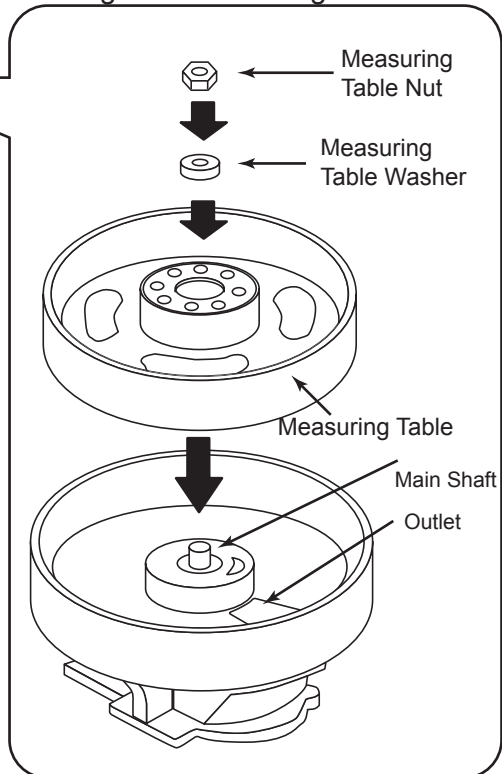
(6) Solenoid Contactor (Heater relay)

Jet Color Blender JCM Type Maintenance

(2) Pneumatic Lift Unit - Apply amount of grease onto up/down post during every material or color change.



(1) Measuring Section - Clean out particles after every material change or color change.



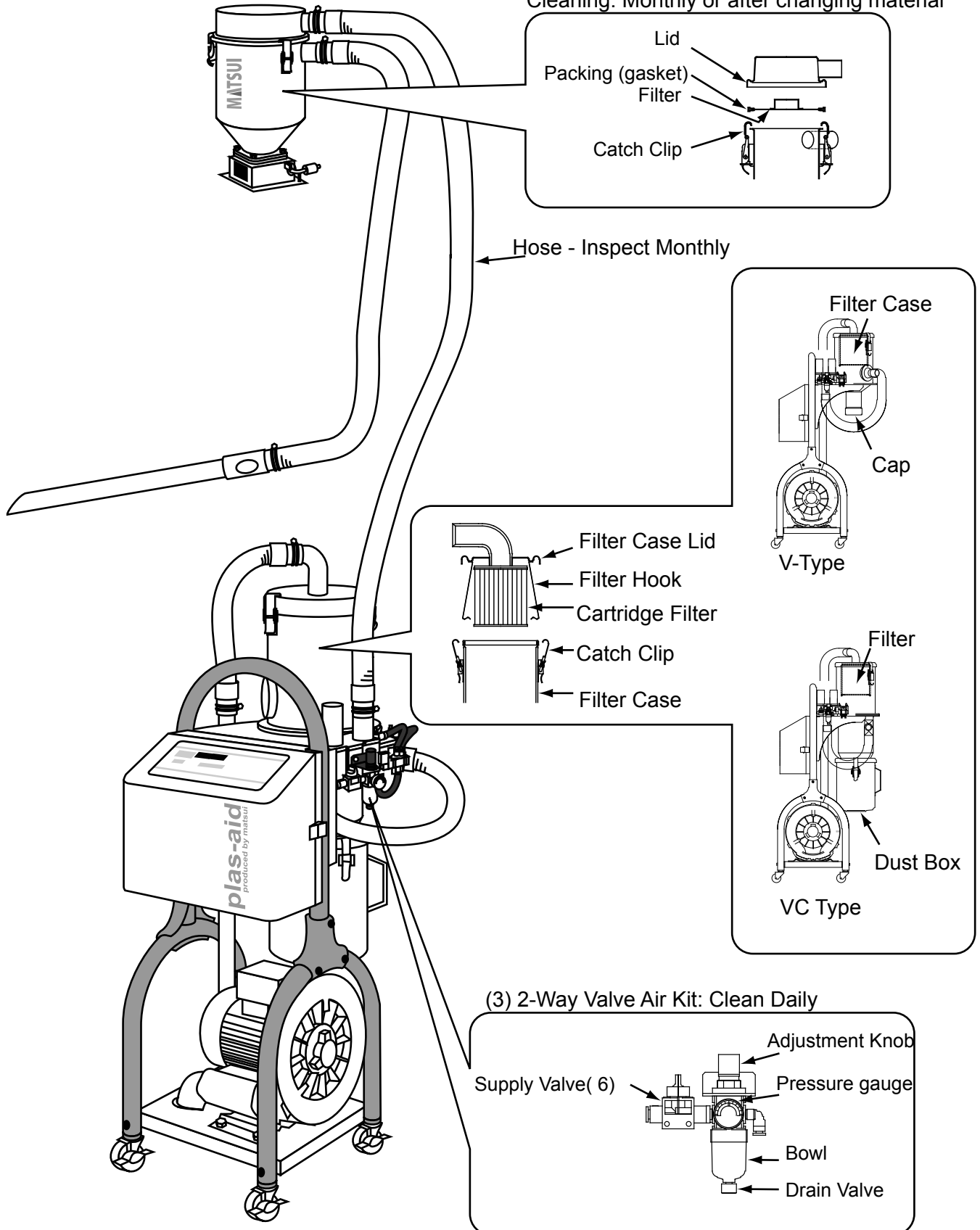
DANGER: FINGER MAY GET CAUGHT

KEEP WATER AWAY

(3) JCM Base Bolt: Check looseness every 6 months

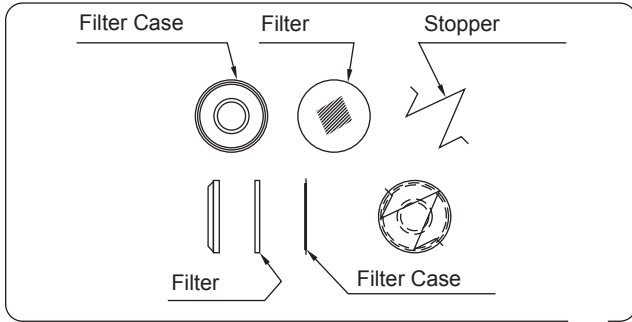
Jet Loader V and VC JL4 Type Maintenance

(4) Wire Mesh Filter in Collection Hopper
Cleaning: Monthly or after changing material



Portable Dehumidifying Dryer (MJ3) Maintenance

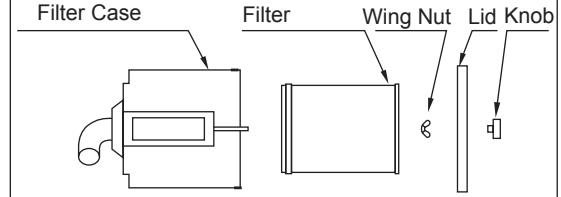
< Regeneration Filter >



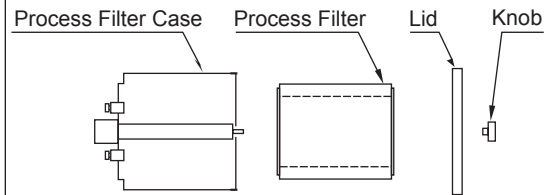
(3) Hose - check disconnection, looseness and air leaks - weekly

(4) Filter - clean weekly

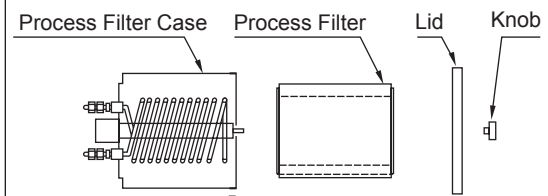
< Filters > 15 - 25



< Process Filter > 50 - 75



< Process Filter > 100 - 150

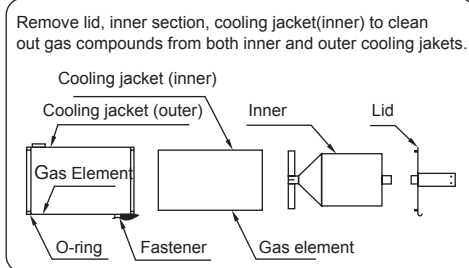


(2) Temperature Controller - check daily

(5) Electromagnetic witch, Contact - check weekly

(7) Terminals - check for looseness monthly

(10) Afer cooler - clean every 6 months

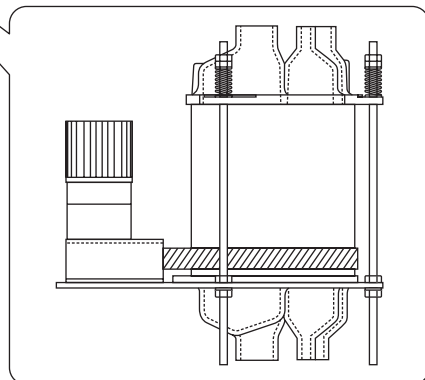


(1) Cooling Water - check daily

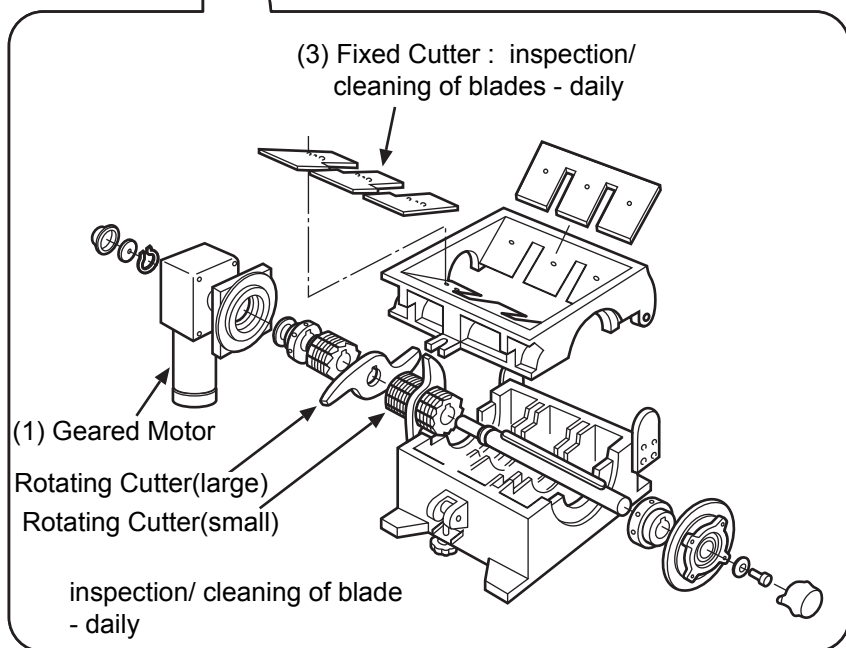
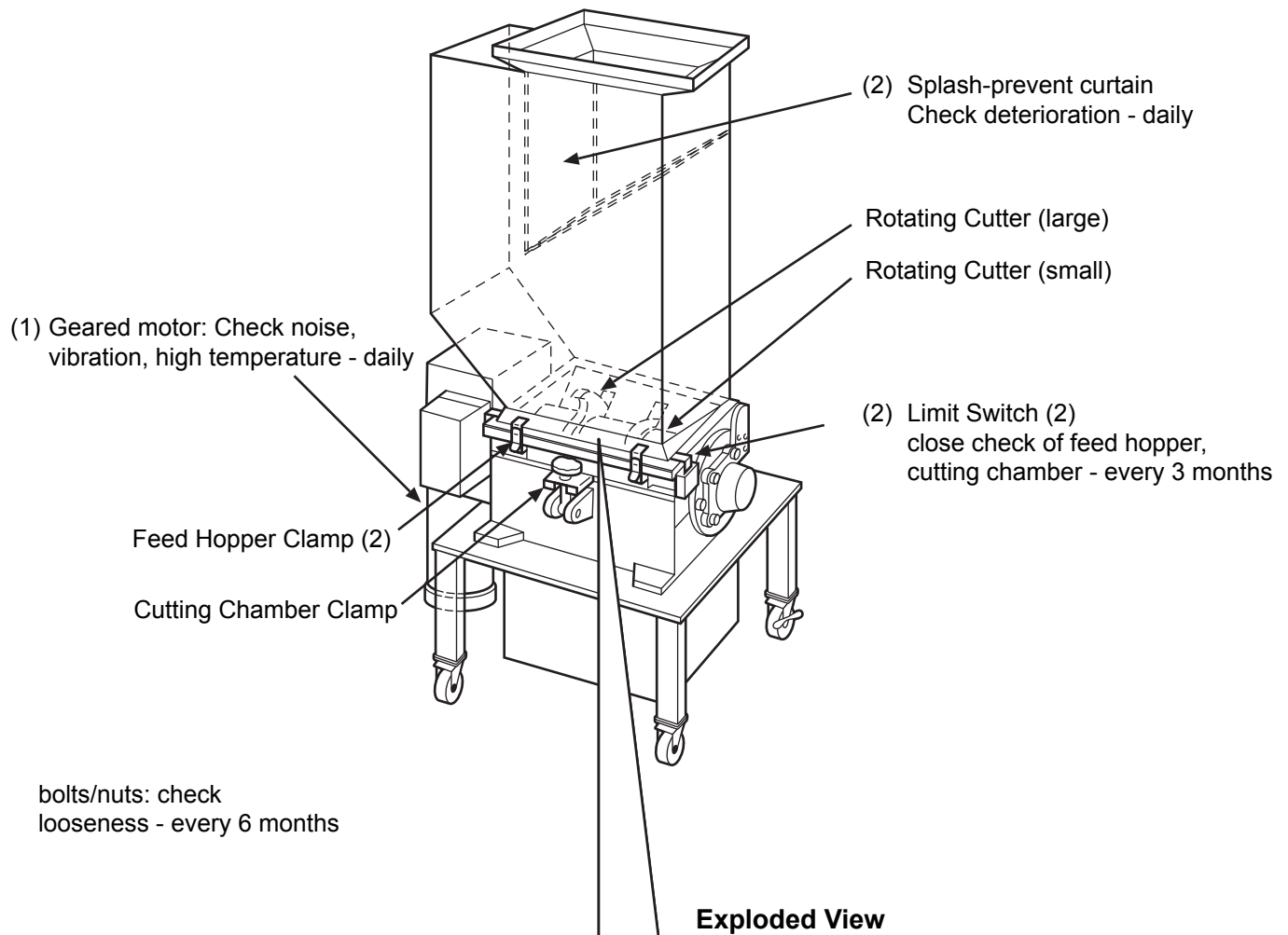
(8) Bolts/Nuts - check looseness every 6 months

(6) Air Kit - inspect weekly

(9) Roter Drive Belt - check damage, rotation every 6 months



Granulator (SMGL) Maintenance Inspections





plas-aid
produced by matsui

プラスエイド
plastic + aid

(プラスチック) (エイド=援助、助力、手伝う)

21世紀ニュープラスチックワークライフの提案
(21世紀プラスチック世界工場の新しいモノづくりのお手伝い)
そんな発想から MATSUI が
世界に向けて開発したニューブランドです。

世界のどこでも「安心」して使っていただける。

- 世界共通の基本仕様「プラットフォーム」の採用
- 共通ユニットの世界的最適地生産方式
- 世界地域別のローカライズ対応
- デザインと革新性を追及した「感性品質」への取り組み

21世紀に MATSUI が世界に提案する
それが「**plas-aid®**」です。

For global plastics production in the 21st century
Plas-aid is a new 21st century global product line
From Matsui, designed to achieve the highest level
Of plastics production anywhere in the world.

Major characteristics of plas-aid are:

- Structural design based on common, global “platform.”
Assembly of shared components optimized in global
 - Production bases.
 - Production localized in each region
 - Enhanced user interface and innovative design
Matsui’s Plas-aid sets the standard of global
plastics production in the 21st century.
- 