# ⚠ DANGER HOT!

After the unit operation stops, for a while, the hot condition continues. Wait for maintenance and inspection until the unit gets cold (5 h are a standard in the nature cooling). And, even if the outside of the unit is cold, be careful sufficiently because the inside and the dry material sometimes are in hot condition.

#### 1. Daily maintenance

Maintenance item	Description
Confirmation of cooling	Confirm that the pressure of cooling water inlet port is the following of
water	0.49MPa. (For the equipment protection) Also, check whether or not cooling water is flowing.
(MJ3-100~300)	When cooling water isn't flowing, the dry dew point doesn't down and causes the dryly inferior.
Confirmation of	Confirm whether the dry temperature and regeneration temperature are
temperature	controlled at the setting temperature of controller.
	<confirming method=""></confirming>
	[In case of dry temperature]  1. After pushing the SV switch of the controller once, do the "SV" indicator light up and confirm a setting value with dry temperature.
	2. Pressing SV switch, do display the dry temperature and compare it with the setting value.
	3. If the setting value is a degree as $\pm 2 \sim 3$ °C, the dry temperature is normal. [In case of regeneration temperature]
	1. Perform display the dry temperature on the controller indicator.
	2. Press RESET and SV switches at the same time.  During a switch is pushed, the actual temperature of regeneration side is displayed on the indicator.
	3. If the regeneration temperature is a degree as 180~220°C, it is normal. At the temperature around, it changes in the temperature but it is not in the malfunction condition.
Confirming rotation of blower	[For the drying blower]
	Remove the hose from the exhaust port of the drying hopper and
	confirm that air flows swiftly.  [For the Regeneration blower]
	Confirm that air swiftly comes out from the recycle exhaust port.
	!\ WARN I NG
	As powder and fragments of material may scatter at this time, please exercise caution and wear protective glasses and gloves when making confirmation.

# 2. Weekly maintenance

Maintenance item	Description	
Air Hose Leaks	Check the air leak on hose.	
	*When there is an air leak, replace with a new hose.	
	[Example of the checking method for the air leak]	
	In the checking method, hang a string or a thread near the hose.	
	In the shaking condition of a string or a thread, the air leak can be confirmed.	
Filter cleaning	( CAUTION	
	<ol> <li>Use a mask because the clinging particles of the filter may disperse when cleaned or inspected.</li> <li>When a filter is clogged, airflow through the unit is reduced, reducing the drying performance greatly. In severe cases, this may cause unit</li> </ol>	
	<ul> <li>*When a filter is clogged, remove the filter and blow clean dry air and remove any clinging particles.</li> <li>*The environment around the unit body influences condition of filter changes. Keep the surroundings around the unit clean.</li> <li>*After checking, set the filter in the original condition and fasten securely.</li> <li>*When the filter is extremely clogged, exchange it with a new filter.</li> </ul>	
Electromagnetic switch unit and contact unit	Confirm whether or not there is degradation, or deterioration on the electromagnetic switch unit and contactor unit in the control panel.  *When there is obvious deterioration of the component, exchange it with a new one.	
	<u>/!</u> CAUTION	
	When checking, or changing any components, turn off the power and unplug the power cord.	
Convey filter cleaning (MJ3-200~300)	Remove the filter, check and clean up the filter clog.  [Resolution clean for the filter]	
l `	Filter case Filter Lid Knob	
Dry filter cleaning (MJ3-50~75)		

Maintenance item	Description	
Dry filter cleaning	Remove the filter, check and clean up the filter clog.	
(MJ3-100~300)	[Resolution clean for the filter]	
	Dry filter case Dry filter Lid Knob	
Regeneration filter	Remove the filter, check and clean up the filter clog.	
cleaning	Filter case  Filter stopper  Filter stopper	
Convey filter cleaning	Remove the filter, check and clean up the filter clog.	
(MJ3-10~150)	[Resolution clean for the filter]	
Dry filter cleaning (MJ3-10~25)	Filter case  Filter nut  Lid Knob	

Maintenance item	Description
Dust hopper for air source unit	Remove the dust hopper, and remove the dust inside.
	Lid
	Catch clip
	Dust hopper
	*The dust hopper has gasket on the edge. A scratched gasket or no gasket may be a cause of conveying problems.
Draining method of air kit	Pressing the drain valve in the bowl lower part in a condition where the compressor air is supplied (the slide valve is in "open" side) discharges the drainage by air. Please receive the drainage with a can, etc.
	Slide valve
	Filter regulator (Stop valve) Open⇔Close  Bowl Drain valve

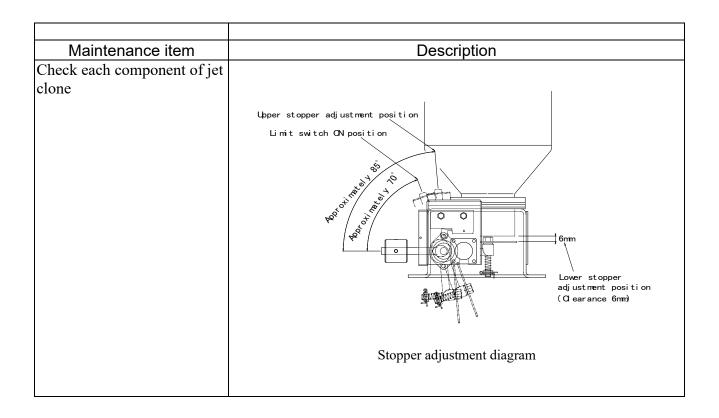
Maintenance item	Description
Jet Clone Collection unit on	Open the SUCTION HOPPER lid, remove the screen filter, and check for
each molding unit filter	clogging.
cleaning	Blow clean and dry air to remove the adhered dust when blinding.
	<ul> <li>When the dry air cannot blow the accumulated dust off, use a sharp wire point to remove it.</li> <li>Replace the gasket when it is excessively deteriorated, discolored, or hardened.</li> <li>CAUTION</li> <li>Handle the filters with care and avoid deformation. A deformed filter may cause conveying failure due to air leaks.</li> <li>Straighten any deformed area by tapping with a wooden or rubber hammers. If defects cannot be corrected, replace the filter.</li> <li>To avoid dust inhalation, wear a mask when removing dust from the filters by blowing dry air.</li> <li>A clogged suction filter may overload the roots-blower or hinder the conveying performance.</li> </ul>
Sensitivity adjustment by the paddle type level switch	When the level switch doesn't sense correctly by the kind of material, the sensitivity adjustment is necessary.
(Using the paddle type level switch)	[Adjusting method] Adjust sensitivity to the specific gravity of conveyed material.
	(1)After turning the lid of the level gage, and remove.
	(2)Change the position of the installation hole of spring.
	When moving a spring to the low position, the sensitivity is increased.  And when moving the spring to the high position the sensitivity is decreased.

Maintenance item	Description
Weigh request gauge (Proximity switch)	When not reading the full material correctly, adjust the sensitivity of the proximity switch by the following procedure.
Sensitivity adjustment method	(1) Remove material in the glass tube.
	(2) Confirm there is no gap between the ends of proximity switch and glass tube. If there is a gap between them, loosen mounting screws (2pcs.) of proximity switch fitting bracket and fix proximity switch with its end touching glass tube.
	(3) Remove the rubber cap at the back of proximity switch.
	Rubber cap  Sensitivity adjusting screw  Detection indicator light
	(4) The following (A), (B), (C) and (D) operations are performed with the
	attached screwdriver.  (A)Confirm detection indicator light has "lights-OFF" when no material is present (If you have "lights-ON", the sensitivity adjustment screw must be turned to the [-] direction [Counterclockwise] until you reach "lights-OFF" position)  (B)Next, in the condition of (A), turn the sensitivity adjustment screw to the (+) direction (Clockwise) slowly. Then, stop in the "lights-ON" position of the motion indicator. (The position of the sensitivity adjustment screw is memorized.)  (C)The material is supplied under the condition of (A), and the sensitivity adjustment screw is turned to the (-) direction (Counterclockwise) slowly. Then, stopped in the "lights-OFF" position of the motion
	indicator. (D)The position of sensitivity adjustment screw is stopped in middle of (B) and(C). (The sensitivity setting is completed.)
	NOTE
	Perform the sensitivity setting with the actual material in use. And, when there are various materials, the (B) and (C) operation are performed with material of low specific gravity.
	(-) ← (A) — (B) — (C) — (D) → (+)  Without material With material Middle of (B)and(C) Without material (memory)  [Lights-OFF] [Lights-OFF] ▲ Setting point [Lights-ON]
	(5) The rubber cap removed in the step 3 is installed. Perform the material conveyance and confirm that the detection indicator lights up.

Maintananca itam	Description
Maintenance item Adjustment for the Jet Clone	Description  When the damper doesn't open
damper cam on the upper part of dry hopper	until the full signal appears on, adjust a damper cam by following procedure.
	Get e Set –scr ew
	Step Description  1 Loosen the set-screw with a hexagon rod spanner (2.5mm).  2 Adjust the gate cam position so that the limit switch is ON with the gate lowering from the horizon by 45-50°.  3 After adjusting the cam, secure it by tightening the set-screw.
Adjustment for the Jet Clone balance weight on the upper part of dry hopper	In a case where material is attached to the damper due to static electricity, the state shown on the right is brought about in rare cases. In such a case, adjust the damper by loosening two locking screws for the balance weight rearward by 5mm, respectively, so as to be horizontally positioned. Retighten screws for fixing after adjustment.
Removing and air leak of hose	Check the removing and air leak of hose.  **At time of the air leak, exchange to the new hose.
	[Example of the checking method for the air leak] In the checking method, hang a string or a thread near the hose. In the shaking condition of a string or a thread, the air leak can be confirmed.
Switch unit for electromagnetic valve and Contact unit	Confirm whether or not there is not the dissolution and consumption in point of tact by installation the switch unit for electromagnetic and contact unit in the control panel.  *When there is the dissolution and consumption of the setting, exchange a part.  CAUTION
	The check is after stop the unit, always, perform after turned "OFF" the power breaker in the front.

#### 3. Monthly maintenance

Maintenance item	Description
	Check the surface of the cooling rubber hose for cracks due to aging.
cooling rubber hose	If the rubber hose is cracked, replace it with a new one as it may cause water
(MJ3-100~300)	leakage.
D: : C	Confirm the learning of the minimum transfer and of the electronic
Rising fastens for the terminal	Confirm the loosening of the wiring connection part of the electronics equipment inside the control panel and in the unit. And, perform the rising fastens in the connection part.
	? CAUTION
	The check is after stop the unit, always, perform after turned "OFF" the power breaker in the front.
Check each component of jet	A: Please check that the stopper (M6) on the upper and lower two points are
clone	not loosened, respectively.
	*Please retighten the stopper according to the "Stopper adjusting diagram"
	on the following page, if loosened.
	B: Remove the cover and check that the hexagon socket head locking screw of
	the removable cam is not loosened. Simultaneously, open and close the
	damper to check that no abnormality for the limit switch exists.
	*Please retighten according to the "Stopper adjusting diagram" on the
	following page, if loosened.
	C: Please check that the hexagon socket head locking screw fixing the balance
	weight is not loosened.
	*Tighten the screw for fixing if loosened.
	D: Please check that no abnormality for the spring, bolt, nut and split pin
	exists.
	*If any abnormality is found, please replace it with a new one.
	A C D



# 4. Every six months maintenance

Maintenance item	Description	
Bolt and Nut in each unit part	Check about whether there is not loosening of bolt and Nut at each part of the unit. Then, perform rising fastens.	
Air-cooled type after cooler cleaning (MJ3-10~75)	Performs to clean the gas ingredient that adhered to cooling jacket (OUT) and cooling jacket (IN) after removing a lid, inner and cooling jacket (IN).  CAUTION  The check is after stop the unit, always, perform after turned "OFF" the power breaker in the front.	
	Cooling jacket(IN)  Cooling jacket(OUT)  Inner  Lid  Cas ingredient  O-Ring  Catch clip  Cas ingredient	

Maintenance item	Description
Honeycomb rotor	The functions on the use elapse doesn't decline if excluding the damage with outside power, the adhesion of high boiling point material and the foreign material mixing, etc. If the abnormal of the aggravation of dehumidifying air dew point, etc. doesn't occur; the replace is not the necessary.
Honeycomb rotor air seal	The air seal of the upper and lower of honeycomb rotor is the cartridge-type slide seal. Check the slide surface of the upper and lower of honeycomb rotor and recommend the replace of cartridge-type slide seal if the abnormal of air leak, etc. occurs.
	( CAUTION
	The honeycomb rotor is turning at a low-speed. Be careful sufficiently because it sometimes seems to stop. When checking while operating, be careful sufficiently because involve clothes and a finger, etc. in between drive belt and pulley, honeycomb rotor and other parts, etc.
Drive motor	The replace for drive motor is necessary if checking the drive motor and abnormal heat, noise, vibration, etc. are noticed.
	<b>CAUTION</b>
	The honeycomb rotor is turning at a low-speed. Be careful sufficiently because it sometimes seems to stop. When checking while operating, be careful sufficiently because involve clothes and a finger, etc. in between drive belt and pulley, honeycomb rotor and other parts, etc.
Drive belt	When checking drive belt and you notice abnormal cracks, worn gear, and etc., the replacement of the drive belt is necessary.
	<u> CAUTION</u>
	If touching the drive belt, only perform it after always stopping the operation and turn off the power.
	Cartridge-type slide seal upper
Drive motor	Honeycomb rotor
Dri	Cartridge-type slide seal lower

NOTE: The technical knowledge and skill are necessary for repair and replace. Contact our service division if abnormal is noticed by the check.

5. Maintenance performed every year

