Maintenance and check

This chapter describes the possible causes of troubles you may encounter and the actions to be taken against them.



Never fail to examine the causes of any trouble and take remedies after allowing the molder to cool for 5 hr after stopping. (Use gloves.)

It is very dangerous during and immediately after operations becomes it is very hot.

Should any burn occur due to negligence of the above, immediately cool the very part with cold fresh water and seek prompt medical treatment.

Checking operations should be made only by authorized personnel.

1. Daily maintenance and check

Items	Content of Operation	
Check of the	When the breaker points does deposit, it causes fire occurrence and	
electromagnetic	becomes an terrible dangerous condition.	
contact unit	If the electromagnetic contact unit becomes the condition of figure 10.1,	
(heater relay)	quickly, replaced to new parts.	
	And, until the parts replace completes, don't start the unit ever.	
Confirms the condition	Figure 10.1	
(deposit) of breaker points.	The condition as the center section was hollow when the unit stops.	
	Normal condition Abnormal deposit condition	
	 NOTE The form sometimes differs on the model. The above figure is the figure condition that saw the electromagnetic contact unit from diagonal front. Even if there is not abnormal, the switching times of the breaker points replace at 1,000,000 times or within 1 year of using term. 	

2. Monthly maintenance and check

Items	Content of Operation	
Medium check for	Collect a proper amount of medium (water) from the drain port and	
GMCL, H type	check the water contamination.	
	Set a collecting vessel under the drain port, and drain and exchange the	
	medium.	
	Figure 10.2	
	Remove the cap of drain port, and drain medium.	
	Remove the plug and clean up the strainer after closing the water supply source valve of your facilities.	
Medium check for	Pull out oil of the unit and check a dirty condition.	
GMCA type	Exchange if the total acid value is more than 0.5 mg KOH /g.	
	<reference> When there are many use frequencies, in the monthly. When little, in the half year, once, exchange all quantity.</reference>	

Items	Content of Operation
Hose check	Check the medium leakage from the vicinity of joint hardware, deformations (Crush or bulge), flaws, cracks, wear and abnormal hardening. Replace the hose if the medium leakage occurs by flaws. The available temperature of each hose is as follows. Rubber hose for L (Use only for hot water) : 95°C Rubber hose for H (Use only for hot water) :120°C Teflon hose (Use for high temperature water, oil) : 200°C
	The hose will wear and tear early if use the hose around the temperature as described above (from temperature 20°C lower than the above to the above temperature). Replace the hose if abnormal conditions are found at the time of check. Replace every hose within a year (Teflon hose: within 1.5 years) as a guideline, if also using under lower temperature than it.
Cleaning of pump mechanical drain	Pump mechanical drain Remove the left sideboards of unit and clean the medium accumulated in the pump mechanical drain. Reference> The pump mechanical seal can not seal completely, about 4~5 drops of medium may leak per hour.

3. Maintenance and check for every three months

When the float switch (L, H type) and the float switch (A type) of expansion tank checks, remove the top plate according to the following procedure.

When the eyebolts (3 pcs.) remove, can remove the top plate. Also when remove the top plate, can open the control panel door.

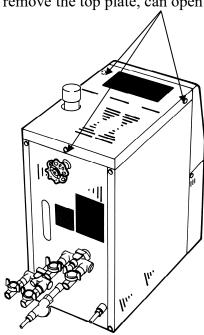


Figure 10.4

Items	Content of Operation
Float switch check (GMCL, H type)	Check a float switch by the following procedure.
	Remove the lid after remove the connector cord of float switch
	box, and check the internal contamination of the float switch and
	whether the float moves smoothly.
	Connector cord
	Hexagon socket head cap screw (3 pcs.)
	Lid (with O-ring slot)
	O-ring
	Snap ring * Po not remove the
	Span ring
	Snap ring *
	Float switch box
	Figure 10.5
	Take out the float switch and clean it up if the float does not
	move smoothly because of depositing impurities to the float
	part.
	It is need to replace the float switch when the float switch does
	not move smoothly by the deformation of the float. (Model;
	OLV-25S-1P L75)
	And replace the O-ring of the lid if it becomes deformed or
	hardened (the state lacking elasticity and being cracked when bending).

Items	Content of Operation
Float switch check	Check the float switch of expansion tank by the following
(GMCA type)	procedure.
	Figure 10.6
	Expansion tank
	\downarrow
	Check for contamination inside the float switch and smooth
	move of the switch after detaching the connector cord and
	removing the lid. Connector code
	Hexagon nuts (4 pcs.)
	€ 👺 与←——Lid
	Snap ring * Float Snap ring * O-ring O-ring guide Expansion tank
	Figure 10.7
	❖Don't remove the Snap ring.

Items	Content of Operation
Float switch check (GMCA type)	Take out the float switch and clean it up if the float does not move smoothly because of depositing impurities to the float part.
	It is need to replace the float switch when the float switch does not move smoothly by the deformation of the float. (Model; OLV-25S-1P L170) And replace the O-ring of the lid if it becomes deformed or hardened (the state lacking elasticity and being cracked when bending).
Bolts and nuts of each unit	Look for bolts and nuts of each unit that have worked loose. Tighten the loosened ones.
Terminals for loose connection	After remove the top plate of unit, open the control panel door. Performs to rising fastens after check that the wiring of control panel and heater part loosens.

4. Maintenance and check for every six months

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Items	Content of Operation
Checking for	Open the control panel of the unit after turning OFF the control
electromagnetic contractor	panel [ON/OFF] switch and shutting down the power breaker.
(heater relay)	$lack \psi$
	Replace white cover of Electromagnetic
Check of condition of	contractor (Figure 10.7B).
connecting point	You can replace the cover easily by pulling
(abrasion)	it toward you. Figure 10.7B
()	White cover
	NOTE
	Some types of the unit do not have
	white covers.
	WINCE COVERS.
	Connecting point of the electromagnetic contractor is inside the
	component shown in Fig.10.8.
	Light one side of the terminal connecting section on the skew
	by a flashlight or like and check the condition of the point (Fig. 10.9).
	/
	Replace immediately when it has discolored into blackish, and
	has abrasion like Fig. 10.10.
	Figure 10.10
	Figure 10.9 Conditions of connecting
Figure 10.8	Skew view of terminal
rigure 10.6	connecting section
	Normal
	necting
	ion is Abnormal (abrasion)
	ie it.
	<note> The upper figures are side views</note>
	of the connecting points.
	p or the comments points.