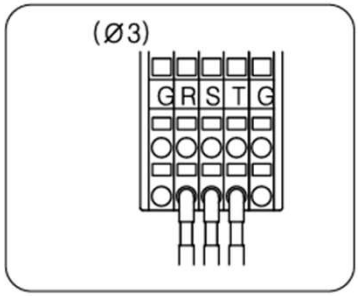
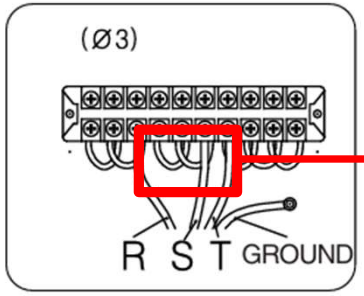
Installation & Initial setting For ISI-303SNA

Icetro America

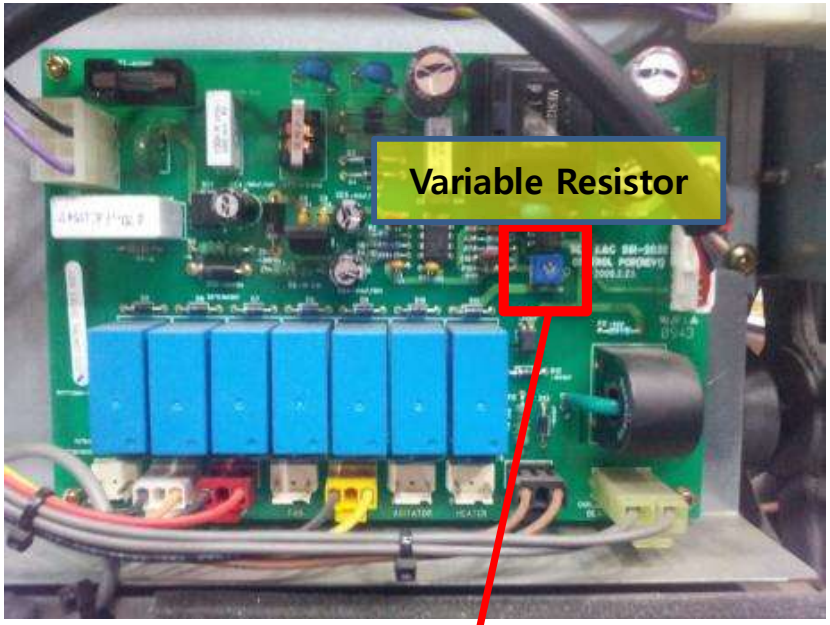
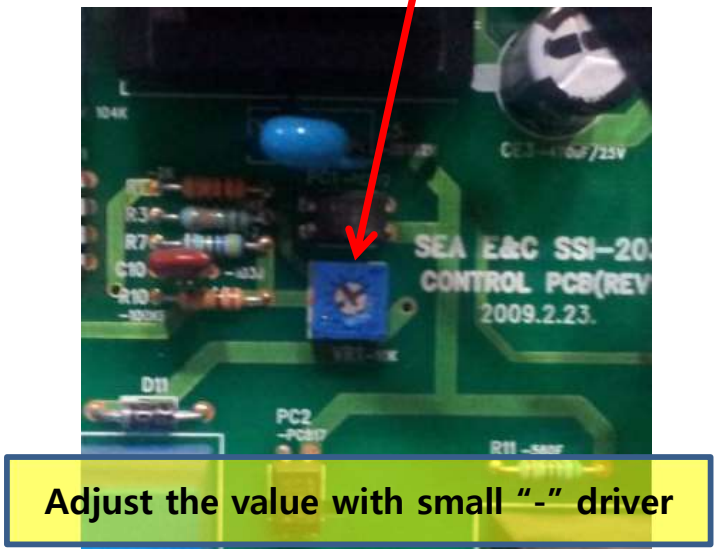
▣ Key specification

Row	Item	Specification	Requirement
1	Electricity	208~230V/60Hz/3phase	250VAC, 3-Phase, 30A, 3-Pole, 4Wire, NEMA L15-30P plug is required
2	Amp	Max. 35A, Operation: 20~23A	Minimum 30Amp circuit breaker is required.
3	Power consumption	7400W	
4	Main(Freezer) compressor BTU	5089 Btu/h per 1 compressor	
5	Refrigerant	Freezer(Cylinder) : R404A	45.86oz.
		Refrigeration(Hopper) : R134A	7.8oz.
6	Time for initial consistency	10~11 minutes at 80F	
7	Recovery time after full draw	3 minutes 40 seconds to 4 minutes at 80F	

▣ Measurement of supplying voltage

No	Explanation	Picture
1	1) Remove the cover of the control box. 2) Connect the power cord and turn on the machine. 3) Measure the voltage power lines at the terminal block. (Use clamp meter or multi-tester)	 Remove the cover of the control box.   Measure the supplied voltage with tester.

▣ Adjust the voltage between the number of real supplied and machine recogniz

No	Explanation	Picture
2	1) If the measured value is different with the value of "1-3", then need to adjust the value with the variable resistor on the control PCB. 2) "1-3" : Currently supplied voltage 3) If you press "Set" button lightly, you can enter the mode to check the setting value of machine. Use the "▲", "▼" buttons. 4) When you adjust the value of variable resistor, you had better use small "-" driver. - Clockwise : Increase - Counter clockwise : decrease	 

▣ Adjust the voltage between the value of real supplied and machine recognized

No	Explanation
3	1) Adjust the value of "4-13-1". : Approximate value with the "1-3". - "4-13-1" : Supply Voltage Criteria 2) Adjust method for "4-13-1". - Press the "Set" and "Select" button at the same time for 3 seconds over. - Insert the password. The pin code is "1111" → When the display is blinking for insert the password, press "▲" button. The first number will be changed as 1. → Press "Set" button. The digit will be move onto the next to put the number. → Press "▲" button again. The second number will be changed as 1. → The next procedure to put the password is same with the above. - Press the "Set" button continuously until you find the "4-13-1" item. - Adjust the value approximate with the value of "1-3".

▣ No Load Amp Setting(Viscosity setting)

<table>
<tr><th>No</th><th>Explanation</th></tr>
<tr><td>4</td><td>
1) Please check the below items pressing lightly the "Set" button.
① 1-1 : Soft ice cream level setting value(Amps)
→ The displayed value indicates how much higher from the no load Amps(1-2) the soft ice cream level is.
② 1-2 : The initial soft ice cream level(No load Amps for the dasher motor).
2) Please check the below item pressing the "Set" button for 3 seconds.(Pin code 0000)
① 3-1 : Adjust the soft ice cream level.
→ This item is used to adjust the target Amps of the soft ice cream.
The bigger number is, the harder the soft ice cream viscosity is.
The smaller, the weaker it is.
→ The original setting of factory : 1.8A
→ The maximum gap value : 1A, adjust by 0.1A~0.2A for viscosity setting
※ The value of "3-1" means the gap from the no load Amp to setting Amp.
Please refer to the below example.
3) Example
<table>
<tr><th>Value / Case</th><th>1-1</th><th>1-2</th><th>3-1</th><th>Result</th><th>Action</th></tr>
<tr><td>1</td><td>1.0A</td><td>1.0A</td><td>1.0A</td><td>Machine cannot be operated.</td><td rowspan="3">Adjust the value of "3-1". When you change the value of "3-1", the value of "1-1" is changed at the same time.</td></tr>
<tr><td>2</td><td>1.8A</td><td>1.0A</td><td>1.8A</td><td>Machine will be operated.</td></tr>
<tr><td>3</td><td>3.0A</td><td>1.0A</td><td>3.0A</td><td>Max setting value.(2.5A) The ice cream might be frozen excessively.</td></tr>
</table>
</td></tr>
</table>

▣ Making Ice Cream

No	Explanation
5	1) Set the value of "3-1" properly after you check the no load amp of "1-2". (Please leave factory setting as it. Please change it only if there is an issue with viscosity.) 2) Pour mix in the hopper and please wait until the mix flows into the cylinder sufficiently. ※ The temperature of mix should be **50F ~ 41F**. Should not be lower than 41F because it is unable for machine to read no load amps with below 40F mix. 3) Plug the carburetor and block the hole. Please make sure to reopen the hole when draw the first ice cream after reaching the initial consistency. Otherwise, cylinder gets over-frozen. 4) Power turn off and turn on. ※ It is only necessary process in order to save the changed setting value on the MICOM when setting of 3-1 is changed 5) Press "Auto" button. The machine will be operated to make the ice cream.