SHAKER INSTRUCTIONS

NOTE: This shaker cannot be operated at 30oC because this is the upper limit at which refrigeration
is required, and the shaker is not able to maintain a constant 30 degrees C.

OPERATING NEAR AMBIENT TEMPERATURE: (25 degrees C)

1. Turn refrigeration on and heat off.
2. Rotate the hi-limit thermostat control completely clockwise and lo-limit thermostat control
   completely counterclockwise.
3. Set the desired temperature and press the HEAT ON button. Wait for the temperature to stabilize
   by checking the LED display on the control panel.
4. When desired temperature is reached, rotate the lo-limit thermostat control slowly clockwise until
   the lo-limit status lamp lights up, and then rotate the lo-limit thermostat control counterclockwise
   approximately 5 degrees of rotation so the lo-limit status lamp goes out.
5. Rotate the hi-limit thermostat control counterclockwise until HI-LIMIT WARNING light just goes
   on. Rotate the hi-limit thermostat control clockwise approximately 5 degrees of rotation. The
   HI-LIMIT indicator light will go out and HEAT light will be displayed.

NOTES: If the shaker is not going to be used for awhile at this temperature, set the temperature to
higher than 32 degrees. The reason for this is that we do not have a drain for the refrigeration unit,
so it is not a good idea to leave the refrigeration on.
   If the refrigeration is turned off but the temperature is not changed to one higher than
32 degrees, then the hi-limit warning light will go on to remind you to change the temperature.

HIGH TEMPERATURE OPERATION: (37 degrees C)

1. Turn refrigeration and heat off.
2. Rotate the hi-limit thermostat control fully clockwise and the lo-limit thermostat fully
   counterclockwise.
3. Adjust temperature to the desired setpoint, and press the HEAT ON button. (Maximum is
   60 degrees C.)
4. After the temperature is stabilized, rotate the hi-limit thermostat control counterclockwise until
   HI-LIMIT WARNING light just goes on. Rotate the hi-limit thermostat control clockwise
   approximately 5 degrees of rotation. The HI-LIMIT indicator light will go out and HEAT light will
   be displayed.

LOW TEMPERATURE OPERATION:

Same directions as for ambient temperatures, but it is really important to set the lo-limit control
properly because the temperature can drop below freezing in the unit.