Seedburo
Equipment Company

INSTALLATION & OPERATING INSTRUCTIONS

**ATTGPT
ACHIEVA PRECISION
TABLE TOP
GERMINATOR**

ATTGPT

TOUCH SCREEN PROGRAMMED CONTROLS
Meets test requirements that may require a controlled single set point temperature, alternating temperature patterns, light, dark or alternating light periods.

REV 05.16.14

ACHIEVA PRECISION TABLE TOP GERMINATOR

ATTGPT

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Seedburo Equipment Company

SPECIFICATIONS

Achieva Precision Table Top Germinator Model: ATTGPL

Seedburo Achieva tabletop germinator offers features similar to our larger units, but these wills save you both space and money.

The ATTGPL precision germinator with single set-point temperature settings automatically control the heat and refrigeration cycles.

The "state-of-the-art" touch-screen allows the control of almost any combination of temperature and light and time options, with greater accuracy than typical electromechanically controlled units.

The unit operates in a temperature range between 40°F/ 4°C and 100°F /38°C with a tolerance of +/- 1°C
The digital display shows set point and actual cabinet temperature.

An air circulation fan ensures uniform temperature in the cabinet for Versa-Pak, rolled towel and container type germination testing.

Three open wire shelves are included.

MADE IN USA

QUALITY MATERIALS AND WORKMANSHIP COMBINED WITH ADVANCED ENGINEERING AND DESIGN TO ASSURE YOU ACCURATE TEST RESULTS EVERY TIME

Achieva Table Top Germinator, 115V, 60Hz..No. ATTGPL/B

Achieva Table Top Germinator, 220V, 50Hz ....No. ATTGPL/C

Required Domestic Boxing .... No. ATTGPL/DOM

Required Export Boxing ....No. ATTGPL/EX

IDEAL SMALL VOLUME CHAMBER

- Separate set-point temperature settings for HEAT and COLD MODE.

- Single dual output repeat cycle timer controls both HEAT and Cold Modes.

- Mode time settings from 1 minute to 99 hours and 59 minutes.

- Lights can operate in either HEAT or COLD MODE

- Can perform photo light-dark test both modes.

- Dry unit.

- Internal fan distributes air gently and evenly

- Test in roll towels, plastic bags or closed boxes.

- Excellent tetrazolium cabinet.

- Stable chemical storage unit.

Exterior dimensions 23.0"D x 20.0"W x 41.0"H
Interior dimensions 16.0" D x 16.5" W x 24.0" H
Unit Weight 95 lbs.   **Export boxed weight**. 285 lbs.

Refrigerant

2.3 oz of 134A / 140 / 235 psi

Electrical

115 V / 60 Hz / 1.8 amps
(220 V available. Specify at time of order.)

Heated Test:
Above room ambient temperatures

Cool Test:
Below room ambient temperatures

SAFETY

CAUTION!

Read this entire "Installation and Operating Instructions" carefully prior to plugging equipment into a power source and/or into service. Information found in this manual is important for safe operation and proper use / maintenance.

WARNING!

Verify the electrical requirements of equipment and verify the intended electrical power receptacle. The intended power receptacle must be compatible with the operational electrical requirements of the equipment and be properly grounded. The electrical data plate of your equipment is located near the electrical power supply cord (extension cord).

WARNING!

Do not apply more than intended rating to the supply (power cord).
Use only the specified power cord and connector. Refer to a qualified service technician for changes to the electrical supply cord.

WARNING!

If there are any questions with regards to wiring, adequate electrical supply, proper power to you building / outlets or service for your equipment, a qualified electrician should be contacted before using your equipment.

WARNING!

Follow local regulations of electrical codes, installation methods and proper use of equipment.

CAUTION!

Germinator and or Lab Test Chamber equipment should only be used for its intended purpose, of typical testing with requirements of temperatures between 0°C and 56°C (32°F and 132°F), and those standard test in a professional setting with qualified technicians, to prevent personal injury or a hazard to property including equipment. Consistent with tests, such as: pre-chiller, seed germination, seed tests and research, plant test and research, plant growth, propagation, accelerated aging, forestry, zoology, botany, tetrazolium, biological research and tissue cultures tests.

DANGER!

Failure to read, follow all installation / operation instructions, as well as safe working habits, can result in a situation that personal injury hazards may exist that may not be apparent, or a condition where a hazard to property including the product itself.

INSTALLATION

CAUTION

REMOVE THE PACKING MATERIAL
Great care has been taken to protect the unit and content during shipping. After uncrating the unit, make sure to remove all cardboard, padding, wood, tape, plastic ties, and other packing material that secure shelves, racks, humidifier, water reservoir, etc... in place during transit.

SERIAL AND MODEL NUMBER
These numbers are found on the nameplate (serial tag) affixed to the lower back or side of the unit. Please record these numbers along with the voltage, amperage and code number in this booklet, in the space provided on the back cover for easy and quick reference. If you ever need technical information or parts, this information will be required in order to provide you proper assistance.

INSTALLATION & LOCATION

ALWAYS:

- Install equipment to assure that the location for your equipment is level.

- Install equipment away from heat sources and extreme cold areas.

- Install equipment to assure sufficient clearance to side and back walls of 6" (152.4 mm).

- Install equipment only in appropriate areas that are conducive to electrical appliances.

- Install equipment in an appropriate safe working environment.

NEVER:

- Never install equipment in an area of standing water.

- Never install equipment in an area with overhead power-lines

- Never install equipment in an area not conducive to safe and proper operator use.

PROPER ELECTRICAL HOOK-UP

Caution:
To protect operator as well as equipment from a possible power surge:
- Verify that the power switch is in the "OFF" position before plugging in the electrical cord.
- Verify the electrical requirements of equipment and verify the intended electrical power receptacle. The intended power receptacle must be compatible with the operational electrical requirements of the equipment and be properly grounded. The electrical data plate of your equipment is located near the electrical power supply cord (extension cord), indicating voltage, amp, wattage, Hz, and phase.
- Plug the power cord into a proper voltage and grounded outlet only.

Danger:
DO NOT, UNDER ANY CIRCUMSTANCES, CUT OR REMOVE THE GROUNDING PRONG (Earth Ground) FROM THE CORD PLUG.

WARNING:
If the product loses the ground connection, usage of knobs, controls, hinges latches and all other parts may become conductive of electricity can cause an electrical shock. Electrical products may be hazardous if misused.

WARNING:
For your protection, do not bypass any interlocks, electrical safety devices or fuses. Only a qualified electrician should attempt repair or replacement of electrical wiring and or components.
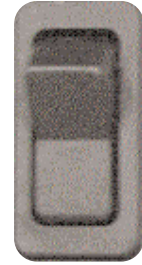
Danger: BE SURE THE EQUIPMENT IS UNPLUGGED FROM ELECTRICAL SOURCE BEFORE REMOVING CONTROL PANEL.

CONTROL SCREEN OPERATING INSTRUCTIONS

1. Plug unit into proper outlet

2. Turn the "ON / OFF" rocker switch on the face of the control panel to "ON"

3. Wait approximately 20 seconds.(system booting bar comes up)

4. The control panel will illuminate, showing the "Title Screen"

5. The ATTGPT Controller is a soft-touch interactive display screen. Touch the screen to continue

6. The Main Menu Screen allows two choices of "Set-Up Menu" or "Run Menu"

7. BEFORE running the unit you must first SET UP the following

-CLOCK / CALENDAR

-DATA STORAGE

-TEMPERATURE UNITS (°F or °C Scales),

These become the settings for all tests until changed.

(see pages 11-14)

KEY FEATURES

Touch Screen and Controller

Fan Guard

Door Lights

USB Port

Door Gasket

SET-UP MENU SCREEN TREE

Default Set-Up Menu
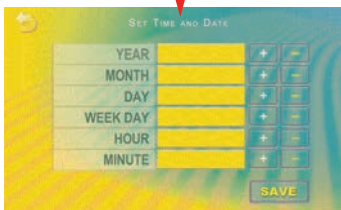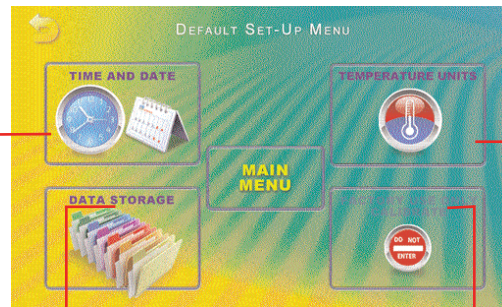
Clock / Calendar

Data storage

Setting Defaults

°F / °C UNITS

RUN MENU SCREEN TREE

Manual
Mode

Automatic
Mode

Manual Run Settings

Auto Run Settings

Manual Run Dashboard

Auto Run Dashboard

Run Menu
Settings

Menu Keypad
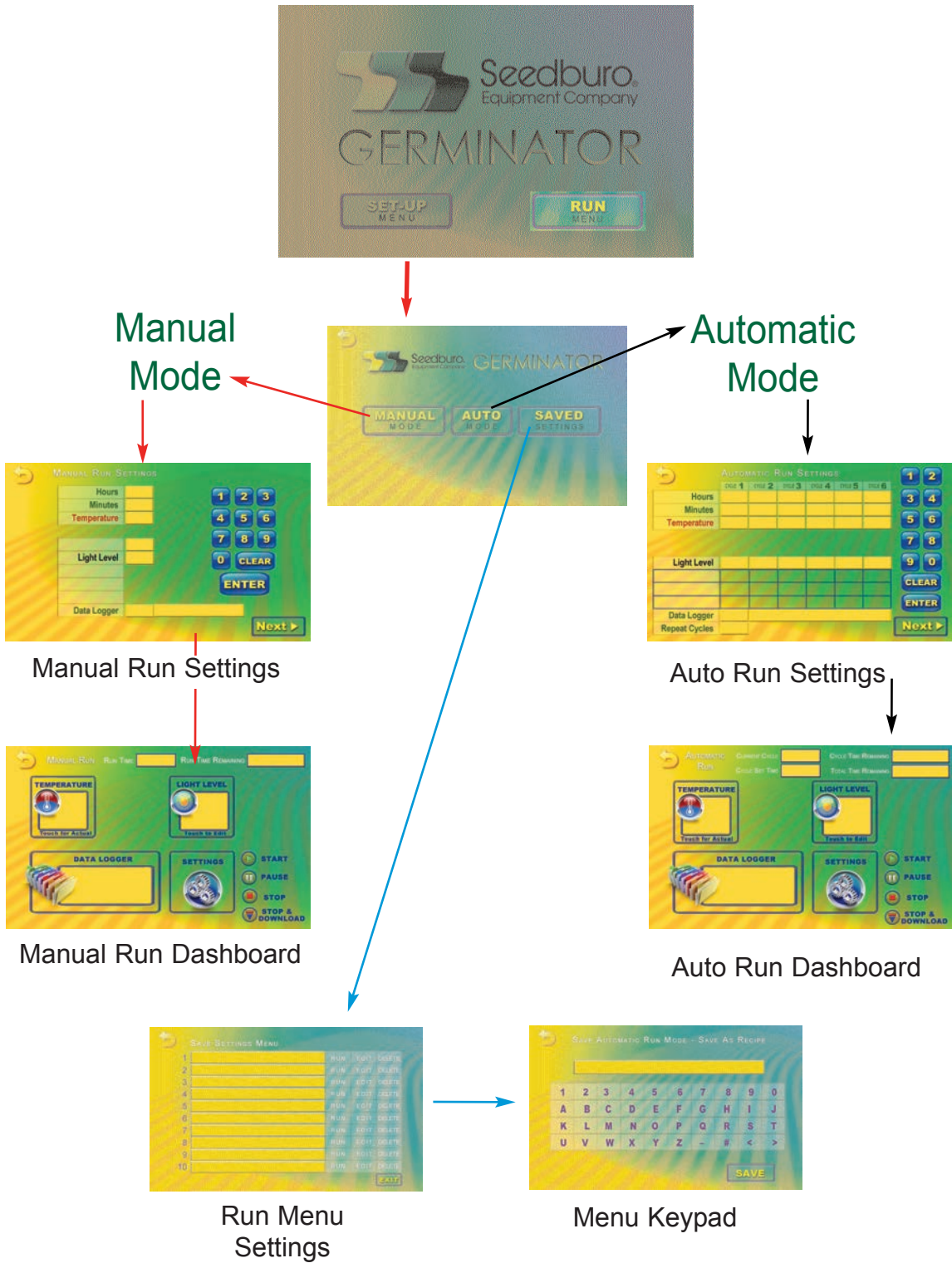
SCREEN INSTRUCTION INDEX
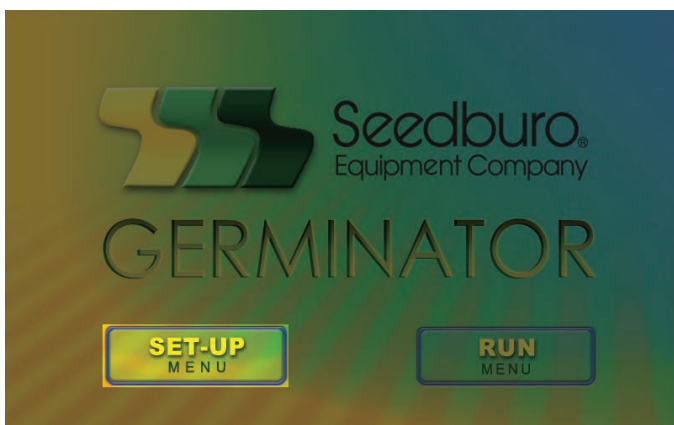
-BEFORE running the unit you must first SET UP the CLOCK / CALENDAR,DATA STORAGE,TEMPERATURE UNITS (°F or °C Scales),and CALIBRATE. These become the settings for all tests until changed.

-Pressing "RUN" without going through "SET-UP" will default to running the last program that was loaded.

-SELECT "SET-UP" Button to acess SET-UP Menu
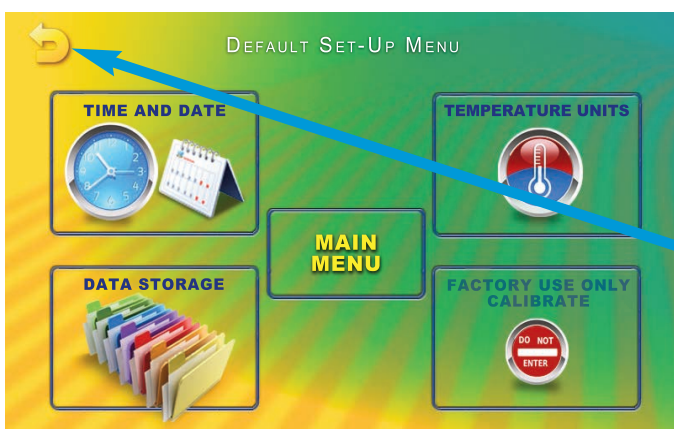
PURPOSE: Dashboard for Setup Parameters

- Select any of the four rectangular buttons to acess that control screen

- BACK button will take you back one screen

PURPOSE: To Set CLOCK/CALENDAR

- Press +/- buttons to scroll thru each CLOCK/CALENDAR parameter incrementally.
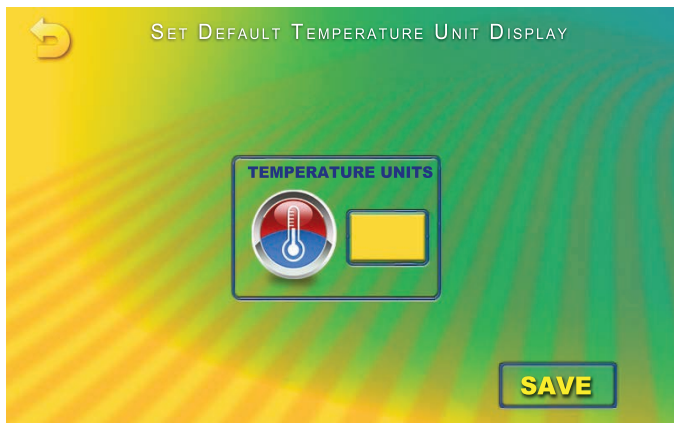
- Select "SAVE"

SCREEN INSTRUCTION INDEX
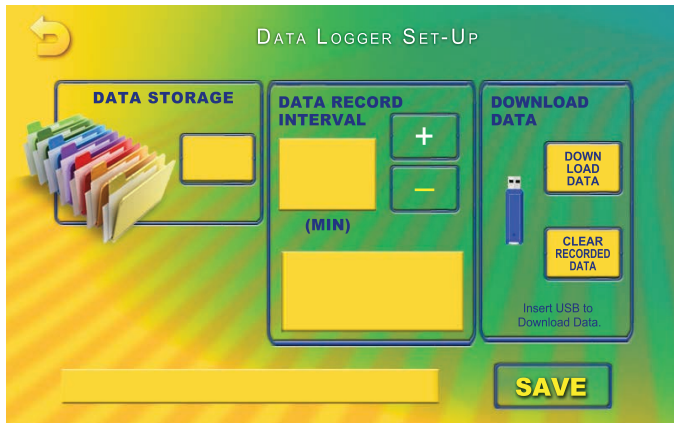
PURPOSE: DATA STORAGE/ LOGGING

- Allows variable time intervals in collection of test values.

- Selecting (+/-) gives you control over data interval.The total data recording space is finite so increasing (+) the interval will give you more days of data and vice versa.

- Select "SAVE"
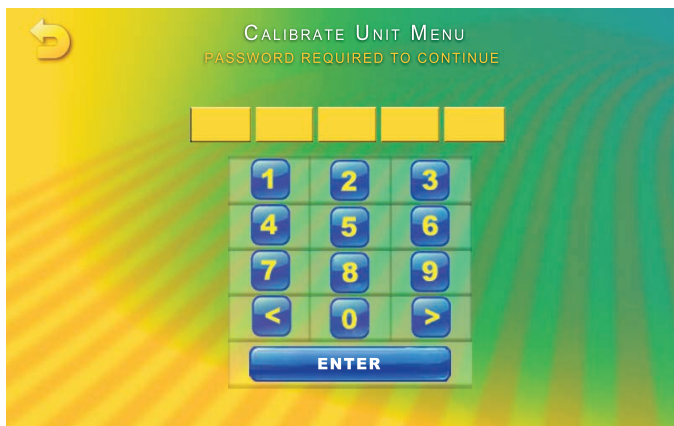
PURPOSE: Password Protected Calibrations

- (for FACTORY and SERVICE USE ONLY)

PURPOSE: Set TEMPERATURE Units

- Select Thermometer Icon to toggle between°F and °C

- Select "SAVE"

SCREEN INSTRUCTION INDEX

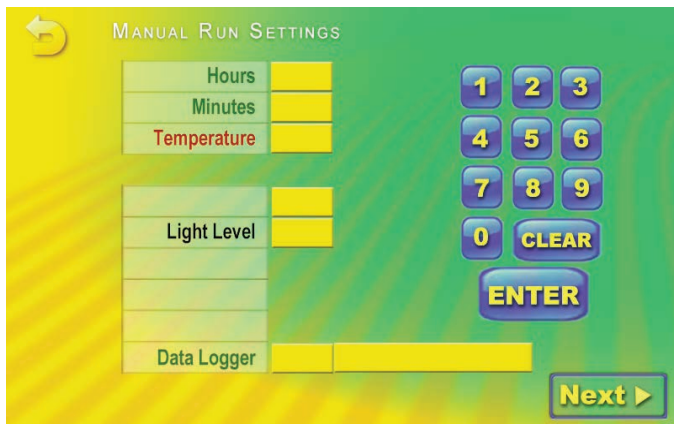**PURPOSE: To Run the Unit in Either MANUAL or AUTO Mode.**

Pressing "RUN" without going through "SET-UP" will default to running the last program that was loaded.
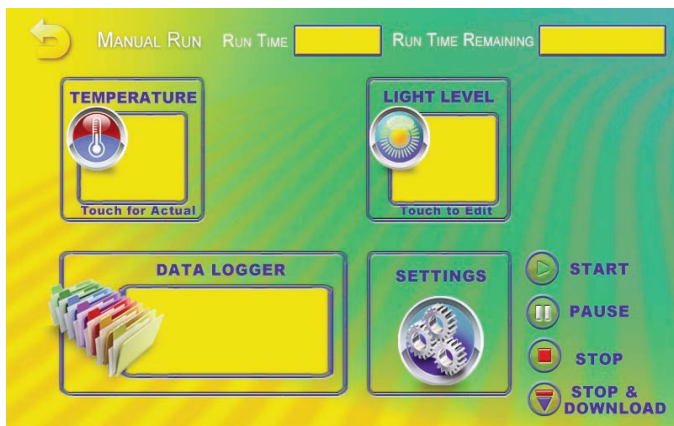

PURPOSE: Run Screen

- Select "MANUAL" mode to run a single test (cycle)

-Select "AUTO" mode to run up to 6 cycles sequentially

PURPOSE: Manual Run Single Cycle Programming

- Select each cell to activate

-Enter digits on keypad
select enter to save that cell

-For Light Level toggle between on and off

-Select Next

PURPOSE: Manual Run Dashboard

-Touch *Start, Pause,Stop* to run "MANUAL" mode

-Select Stop & Download to end run and obtain data on USB drive.

To Download Data:
Plug in the flash drive and press the "Stop & Download Data" button
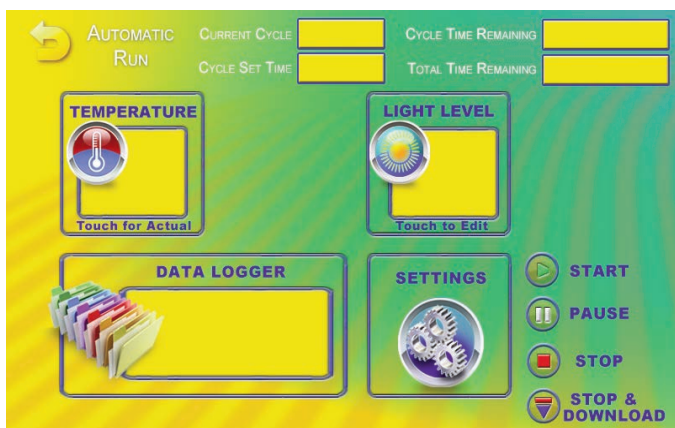Status of download will appear in the dialog box to let you know when it is complete

-Temperature displays programed set point,select for "actual" cabinet temperature to display. The Letter "A" will display next to temperature when actual..
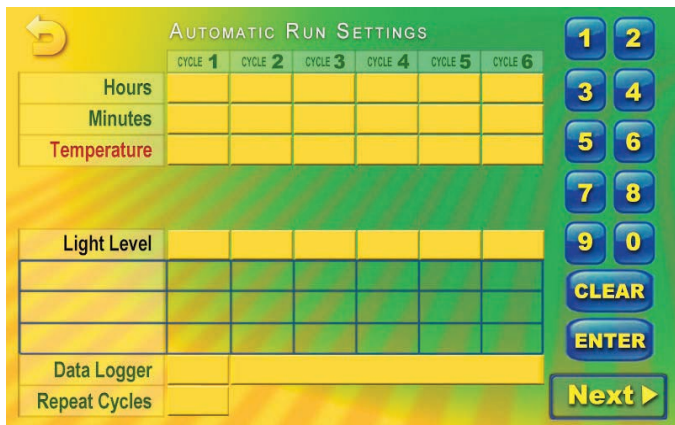
PURPOSE: Automatic Run Cycle Programming

-Up to six cycles can be programed and will run in sequence automatically when "START" is pressed

-Each cycle must have a time and temperature entered

- Select each cell to activate

-Enter digits on keypad select enter to save that cell. The next cell will highlight and be available for edit in white letters. Digits can be entered OR a new cell can be selected.

-Data Logger and Light Level are ON or OFF. Data Logger will display time interval.

-For Light Level toggle between ON and OFF

-Select "Next"

PURPOSE: Automatic Run Dashboard

-Touch *Start, Pause, Stop* to run "AUTO" mode cycle

-Select "Stop & Download" to end run and obtain data on USB drive.

To Download Data:
Plug in the flash drive and press the "Stop & Download " button
Status of download will appear in the dialog box to let you know when it is complete

-Temperature displays programed set point, select for actual cabinet temperature to display

SCREEN INSTRUCTION INDEX: SAVE RECIPES

PURPOSE: Saved Recipes

-Up to 10 Auto Run Recipes can be stored
- From this screen you can Run, Edit, or Delete an of them.

MODEL NUMBER: ATTGPT   SERIAL NUMBER: _____

VOLTAGE: _____ DATE OF PURCHASE: _____ Software Version: _____

ITEM	QTY	PART#	DESCRIPTION
1	1	Z-800-2157	CNTRL ASSY TOUCH PANEL
2	1	SWH RCK E1	SWITCH
3	2	GRD FAN	FAN GUARD
4	1	Z-301-3157	DOOR LIGHT ASSY
5	1	FAN PHTT 115	FAN
6	1	CRD SET 10-115	(CORD SET) USA ONLY
7	1	TRNS-240-120-40VA	TRANSFORMER
8	1	CNTRL BRD-IQ GERM	I/O CONTROL BOARD
9	2	TRM BLK RTH	TERMINAL BLOCK
10	1	CONTACT-2 POLE-120V-40AMP	CONTACTOR
		OTHER PARTS	
	1	EL150-120SP	STRIP HEATER 150W

FRONT VIEW

BACK VIEW

TOP VIEW

NOTES
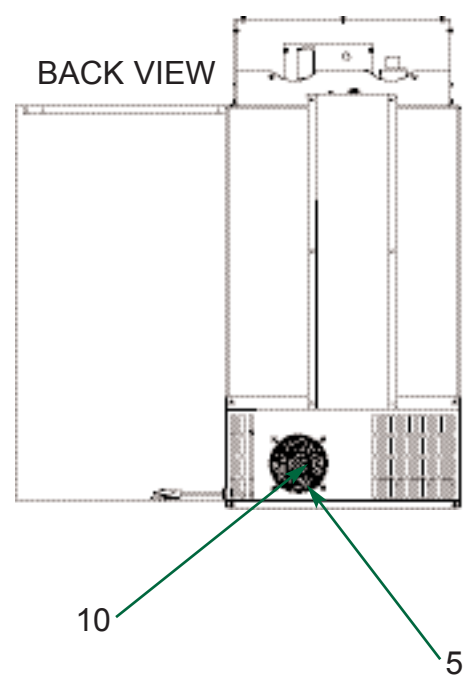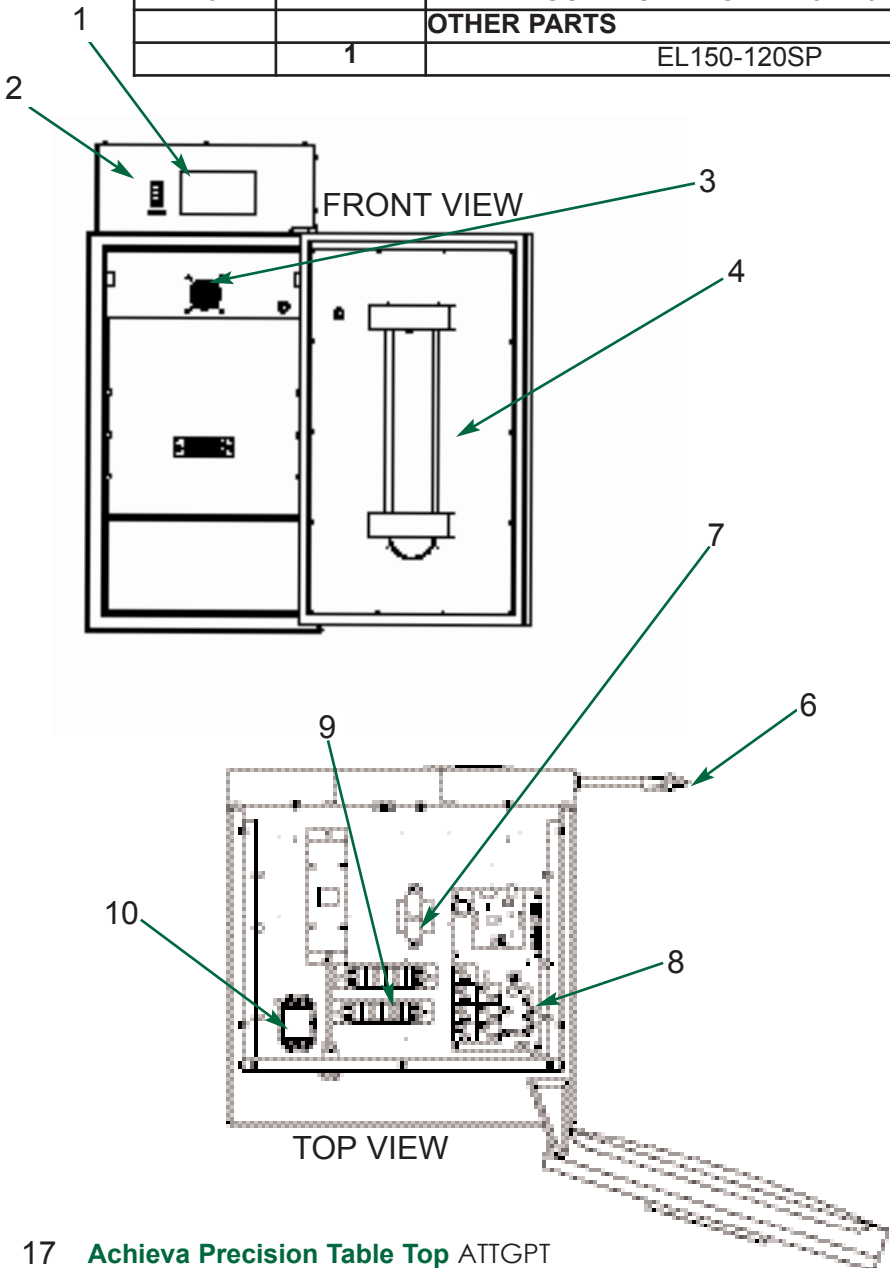
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