

READ AND STUDY MANUAL BEFORE USE



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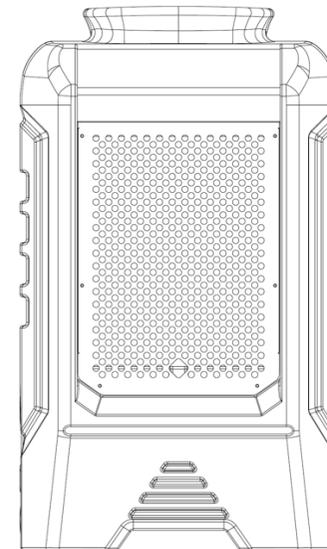
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LGR Mobile Dehumidifier

220~240V Model: ST601 Pro / ST1001 Pro

OPERATING MANUAL



We also provide other kinds of dehumidifiers:

- **LGR Mobile Dehumidifiers with Timer Control**

Models: SD600, SD800 & SD1000

- **Swimming Dehumidifiers with Humidistat Control**

Models: SP500C, SP1000C & SP1500C

Please find out more from our website, www.suntecind.com

Suntec ST Serials dehumidifiers are used for professionals drying out wet materials such as carpets, carpet cushions, floors, walls, building contents and more. They reduce the water in enclosed structural environments like building or part of a building by removing water vapor from the air.

Safety Instructions

- Do not allow children to play with or around the operating unit.
- Keep wiring and motor dry. Never operate the unit in standing water, rain and snow, as this may create a risk of injury from electric shock.
- Do not use the adaptor.
- Do not operate the unit with a damaged power cable.
- Always operate the unit with an earthed plug and with an earthed supply.
- Extension cables must be earthed and be able to deliver the appropriate voltage to the unit.
- Do not drop or throw the unit.
- Always operate the unit on a stable, level surface.
- Do not clog or block air intakes.
- Always to keep the filter clean.
- Do not attempt to disassemble or repair the unit if you are not qualified to do so.

How to Use Dehumidifiers

Setting Up a Drying Area

Create a closed drying chamber

The dehumidifier should be operated in an enclosed space, as this creates a drying chamber. Close all doors, windows or areas that open to the outside to maximize the unit's water removal efficiency. Inside the drying chamber, air should circulate freely. Open interior doors and turn on Air Movers to increase the circulation.

Position the dehumidifier

Place the dehumidifiers in the center of a room and keep it away from anything that could prevent airflow into and out of the unit.

Managing the rising temperature

The dehumidifier warms the air as it removes its moisture. Room temperatures of about 20°C to 29°C are usually a good condition for drying.

CAUTION! Never operate the Suntec ST Series dehumidifier at temperature above 38°C. It could damage the machine and building contents.

Operating Your Dehumidifier

Place the dehumidifiers in upright position

If the dehumidifier has been in a horizontal position for any time over a few minutes, you must set it upright (vertical) for 30 minutes before starting.

Connect drainage system

You can find the hose wrapped around the back of the machine. Unwrap the entire hose and run it into a sink, toilet, drain, or bucket.

Plug in the electrical cord

Locate the electrical cord and unwrap around the air outlet located on the back of the unit. Plug it into a standard outlet with the correct voltage and amperage for the unit. If the unit experiences a loss of power, which can result from a power interruption and overheated.

Before Transporting Your Dehumidifier

Before moving the unit, make sure the pump is empty of water. To do this, let the unit stop dehumidification for 10mins. Push PURGE key to clear waters. See "How to Use the Touch Pad Control Panel with Humidistat" for more details.

DECLARATION OF CONFORMITY



We, declare under sole responsibility that our models (ST601 Pro / ST1001 Pro) to which this declaration relates are in conformity with the following standards:

EMC:

EN 55014 - 1:2006, EN 55014-2:1997+A1:2001

Electromagnetic Compatibility: emission requirement

EN 61000 - 3 - 2:2006, EN 61000-3-3:1995+A1:2001+A2:2005

Electromagnetic Compatibility: emission requirement.

LVD:

EN 60335 - 1: 2002+A1:2004+A11:2004+A12:2006+A2:2006

Safety of household and similar electrical appliance

- General requirements.

EN 60335 - 2 - 40: 2003+A11:2004+A12:2005+A1:2006

Particular requirements for electric heat pumps, air conditioners and dehumidifiers.

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Design and Development

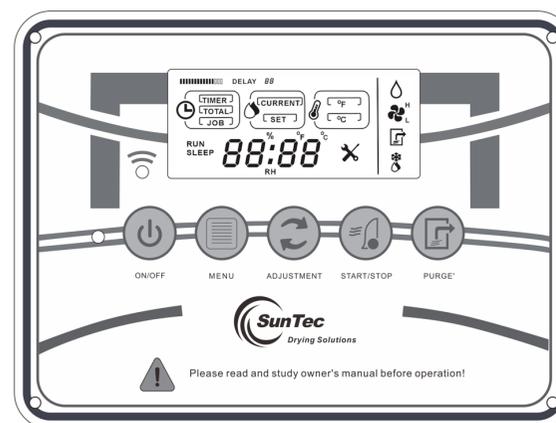
Specifications

Model	ST601 Pro	ST1001 Pro
Water Removal (32° C/90%RH)	138Pint / 65L per day	212Pint / 100L per day
Water Removal (27° C/60%RH)	83Pint / 39L per day	129Pint / 61L per day
Water Removal (10° C/70%RH)	32Pint / 15L per day	57Pint / 27L per day
Temp. Range	1° - 38° C	1° - 38° C
Refrigerant	410A	410A
Power Consumption	920 Watt	1650 Watt
Voltage / Cycle	220-240V/50Hz	220-240V/50Hz
Ampere	4.0 Amps	6.5 Amps
Rated Air Flow	600 m ³ /h	750 m ³ /h
Control Panel	Touch-pad	Touch-pad
Humidistat/Timer Control	Yes	Yes
Built in WiFi	Yes	Yes
Defrost Type	Hot-gas bypass	Hot-gas bypass
Air Filter	Pleated Filter	Pleated Filter
Water Pump	Centrifugal	Centrifugal
Housing	Roto Molded	Roto Molded
Large Wheels	Semi-pneumatic	Semi-pneumatic
Drain Hose Length	10m	10m
Cable Length	8m	8m
Height	840mm	840mm
Width	500mm	500mm
Depth	485mm	485mm
Use Weight	40kg	50kg

Specifications are subject to change without notice. Some values are approximate.

How to Use the Touch Pad Control Panel with Humidistat

Note: Find “Dry Connect” Mobile App Quick Start Manual for WiFi connection.

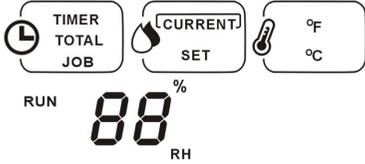
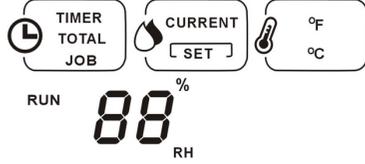
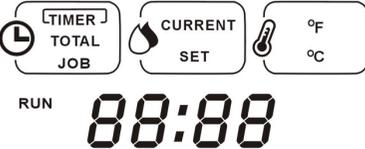


- LCD Display X 1
- On/Off Indication Light (RED/GRN) X 1; WiFi Indication Light (RED/GRN) X 1
- Five keys (From left to right): ON/OFF Key X 1; MENU Key X 1; ADJUSTMENT Key X 1; START/STOP Key X 1; PURGE Key X 1

LCD Display:

	DEHUMIDIFIER ON.
	FAN ON.
	PURGE ON. The pump is on and it is pumping water out of the reservoir tank.
	DEFROST ON. Frost forming on the coils, defrosting cycle start.
	DELAY BAR
	SERVICE.
RUN	RUN Mode. DEHUMIDIFICATION is ON.
SLEEP	SLEEP Mode. DEHUMIDIFICATION is OFF. It automatically goes back to Running Mode again when the ambient humidity is higher than the preset humidity.

LCD Display – Cont.

	<p>“CURRENT” HUMIDITY. When the machine is turned on, the default display function goes to “CURRENT” HUMIDITY. “CURRENT” wording in the square box will flash for 3 sec and 2 digits Relative Humidity figures display the current ambient humidity.</p>
	<p>“SET” HUMIDITY. While “SET” HUMIDITY function is chosen, “SET” wording in the square box will flash for 3 sec and the bottom 2 digits Relative Humidity figures also flash continuously until the user set the desired humidity which is from 25% to 80%. “- - %RH” is the value beyond this range, which read as nonstop dehumidification.</p>
	<p>“TIMER” CLOCK. While “TIMER” CLOCK time is chosen, “TIMER” wording in the square box will flash for 3 sec. The bottom four digits show how many <i>HOURS and MINUTES</i> the “TIMER” is. In <i>STANDBY</i> mode, the four digits (- - : - -) flash continuously until user sets the <i>TIMER</i> from 00:10 to 23:50 hours. Once the “TIMER” is set and machine starts running, the four digits displays remain running time of the current <i>TIMER</i>., “- - : - -” is the value beyond this range, which read as nonstop dehumidification.</p>

- *Inspect pump tube.* Make sure the pump tube is completely unwrapped and not kinked. Failure to do so can cause water to back up in the pump and leak out. The control panel may signal this problem by displaying “ER00”
- *Inspect filter.* Look for accumulated dust and dirt that would restrict airflow through the filter into the unit. If any is visible, vacuum out the debris. **Do not wash the filter**, as it will reduce the effectiveness of the electrostatic material.

Important: Replace the filter whenever

- It has been vacuumed clean 3 times.
- It has been used on a mold remediation job.

Periodically Inspection (as needed)

Make sure the unit is unplugged. Remove housing, in order to locate the coil, pump and drain hose.

- Check coil and clean visible dirty
 - Vacuum both sides of the coils until clean.
- Check pump
 - Inspect and clean the pump system regularly to maintain effective operation. Remove one screw to open up the top cover, and then open up the second cover. Clean the float shaft to make sure the floating switch can operate smoothly.
- Check drain hose
 - Look for obstructions. Disconnect and clear any debris present.

Warranty

SunTec warrants to the original purchaser that if, within a period of 12 months from the date of purchase, this equipment is found to be defective either in original materials or workmanship (excluding normal usage wear and/or mishandling or abuse) the faulty part will be replaced free of charge upon presentation of the appropriate evidence, provided the unit is returned to the original supplier. Shipping expenses are not covered under the warranty.

Error Messages

Msg.	Icon	Description
Er00	“PUMP ON” flashing	Problem with pump or pump tube is kinked.
Er01	N/A	Check coil temperature sensor at the side of coil and its sensor cable.
Er02	N/A	Check ambient temperature sensor in the front of the coil and its sensor cable.
Er03	N/A	Check humidistat sensor in the front of the coil.
Er04	N/A	Ambient temperature is too high.

Note: Contact your local distributor for service.

On/Off Indication Light:

Color	Status	Description
N/A	Off	Machine has been turned off.
Red	On	Machine has been turned on.
Green	On	Machine start dehumidification.

WiFi Indication Light:

Color	Status	Description
Red	Flash, 2 times per Sec.	EZ mode WiFi connection
Red	Flash, 1 time per Sec.	AP mode WiFi connection
Red	On	EZ/AP WiFi Connection Failure
Green	Flash, 1 time per Sec.	Connecting WiFi network.
Green	On	WiFi Connection successful.
Green	Flash, 2 times per Sec.	WiFi Connection Failure/ WiFi pcb is disconnected.

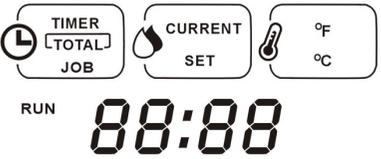
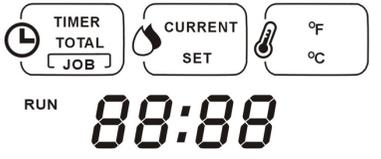
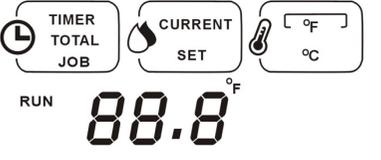
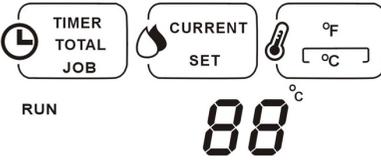
Maintenance

WARNING! Always unplug any dehumidifier before performing maintenance procedures.

Before Each Use

- Inspect the electrical cord for damage.

LCD Display – Cont.

	<p>“TOTAL” CLOCK. While “TOTAL” CLOCK time is chosen, “TOTAL” wording in the square box will flash for 3 sec. The 4 digits show how many <i>DAYS</i> the machine has been used.</p>
	<p>“JOB” CLOCK. While “JOB” CLOCK time is chosen, “JOB” wording in the square box will flash for 3 sec. The four digits display how many <i>HOURS and MINUTES</i> either the CURRENT JOB is running or the LAST JOB has been run.</p>
	<p>“°F” TEMPATURE. While “°F” TEMPATURE function has been chosen, “°F” wording in the square box will flash for 3 sec and 3 digits figures display the current ambient “°F” temperature.</p>
	<p>“°C” TEMPATURE. While “°C” TEMPATURE function has been chosen, “°C” wording in the square box will flash for 3 sec and 2 digits figures display the current ambient “°C” temperature.</p>

Touch Pad Keys:

	<p>ON/OFF. Press the ON/OFF key to turn the machine on or off.</p> <ul style="list-style-type: none"> When turning the machine on, the machine is under STANDBY MODE. The red indication light and LCD light up. LCD displays CLOCK icon; "TIMER", "TOTAL" and "JOB" wordings; HUMIDITY icon, "CURRENT" and "SET" wordings; TEMPERTURE icon; "°F" and "°C" wordings. The default function is "CURRENT" HUMIDITY. "CURRENT" wording in the square box will flash for 3 sec. Press the "START/STOP" KEY to start the nonstop dehumidification. Press the ON/OFF key again to turn the machine off. The red indication light and LCD light off. Note: In STANDBY MODE, the machine can also be automatically turned off if there are no other keys pressed within 3 minutes.
	<p>MENU. Press the MENU key each time to choose the "CURRENT" HUMIDITY, "SET" HUMIDITY; "TIMER" CLOCK, "TOTAL" CLOCK, "JOB" CLOCK; "°F" TEMPERTURE, "°C" TEMPERTURE functions sequentially.</p> <ul style="list-style-type: none"> In STANDBY MODE, the default function is "CURRENT" HUMIDITY, When error messages are on, "TIMER" CLOCK, "TOTAL" CLOCK, "JOB" CLOCK; "SET" HUMIDITY; "CURRENT" HUMIDITY, "°F" TEMPERTURE, "°C" TEMPERTURE icons & wordings are disappear. Press MENU key again to get back those displays.
	<p>Adjustment. Press the "Adjustment" key, the timer time and preset humidity figures can be adjusted as you desire.</p> <ul style="list-style-type: none"> In "SET" HUMIDITY function, the preset humidity range is from 25% to 80%. It increases by 5% for every press In "TIMER" CLOCK function, the "TIMER" time setting range is from 00:10 to 23:50. It increases by 10mins for every key press <p>Press this key without releasing; either the preset humidity or the timer can be adjusted continually.</p>

Touch Pad Keys – Cont.:

	<p>START/STOP. Press the START/STOP key to start or stop the dehumidification.</p> <ul style="list-style-type: none"> When dehumidification starts, the machine performs a compressor delay. The delay is up to a maximum of 180 seconds. (30 seconds delay for the first startup). The DELAY BAR flashes during this delay period. While the dehumidification is on, the display reads "DEHUMIDIFIER ON" & "FAN ON" icons. In "CURRENT" HUMIDITY, "TOTAL" CLOCK, "JOB" CLOCK, "°F" TEMPERTURE, "°C" TEMPERTURE functions, it runs as nonstop dehumidification. RUN Mode is on. In "SET" HUMIDITY function, when the ambient humidity is lower than the preset humidity, the dehumidification stops and machine goes into SLEEP Mode. When the ambient humidity is higher than the preset humidity, the dehumidification goes back on again and machine goes into RUN Mode. When preset humidity is set as "- - : - -", the machine runs as nonstop dehumidification. In "TIMER" CLOCK function, the dehumidification stops automatically as the "TIMER" set. When the time is set as "- - : - -", the machine runs as nonstop dehumidification. RUN Mode is on. <p>Press the START/STOP key again to stop the dehumidification. The "DEHUMIDIFIER ON" & "FAN ON" icons come off while the dehumidification stops.</p>
	<p>PURGE. Press the PURGE key to empty water from the pump reservoir. During the normal operation, the pump purges automatically whenever the reservoir is full. The display will read PURGE ON icon.</p> <p><u>TO PURGE THE PUMP MANUALLY BEFORE TRANSPORTATION:</u></p> <ul style="list-style-type: none"> Stop the dehumidification using the START/STOP key, and let the unit sit for about 10mins. This allows water to drip from the coils. Press PURGE to remove residual water.