

Temperature Control

1. Temperature Setting

- Set the temperature at 55 °F for the optimum aging of wine
- On initial start-up, the time required to reach the desired temperature will vary, depending on the quantity of bottles, temperature setting and surrounding temperature.
- Allow 24 hours to stabilize the temperature for each new temperature setting operation

2. Use of the 952884 controller

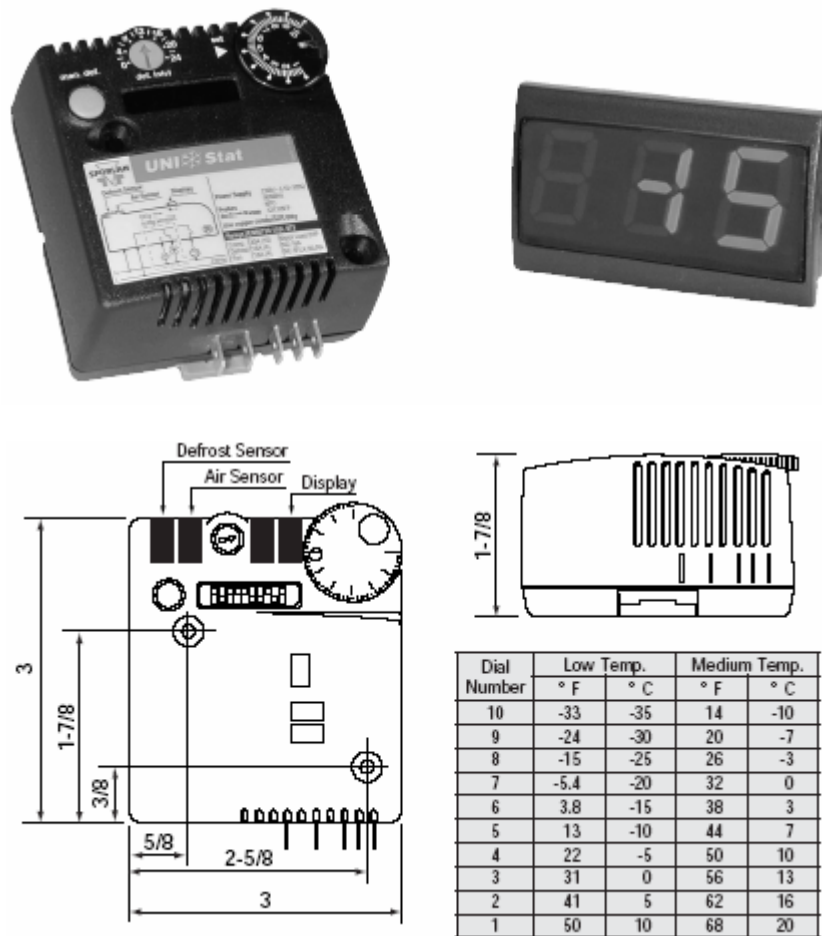
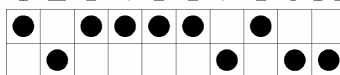


Fig. 3.1 Digital Controller

1 2 3 4 5 6 7 8 9 10



Dip Switch Setting

1) Set Point

Rotate the circular selector in correspondence with the arrow placed nearby. The selector represents -33°F to 50°F (-35°C to +10°C) for low temperature models, and 14°F to 68°F (-10°C to +20°C) for medium temperature models. “10” is the coldest setting, “1” is the warmest.

2) Differential

It is possible to modify the differential from 1°F minimum to 12.5°F maximum. Simply shift the first two dip-switches to the ON or OFF position according to the wanted value.

3) Defrost management and setting

A defrost can be activated manually, by pressing the “man. def.” button, or cyclically, the interval set by the “def.intvl” rotary switch at the top left with respect to Set Point selector. The interval can be selected from 1 to 12 hours in 1 hour steps. If the selector is positioned on the “0”, the cyclic defrost is disabled.

Note: manual defrost reinitializes the time required for successive cyclic defrosting. The selections are effective beginning from the successive cycle. For an immediate effect, it is necessary to turn power to the 952884 off for a few seconds.

It is possible to choose between an electric defrost (the compressor is deactivated and the defrost relay is activated) and a hot gas defrost (both the compressor and the defrost relay are activated); The defrost termination, can take place by time (from 1 to 60 min.) or by temperature (from 0 to 86°F) if the defrost sensor is utilized for the correct programming). If the defrost sensor is disconnected, interrupted or breaks down for any reason, the defrost terminates after a maximum time of 90 minutes if it is resistance-based, or 40 minutes if it is hot-gas based.

The instrument stores the defrost state every 15 minutes to allow restart after power loss.

4) Compressor safety function

If the function is enabled, a minimum three minute interval is ensured between deactivation and successive restart of the compressor.

If the function is enabled, the compressor is not energized for three minutes after controller power up.

The function is also active in hot-gas defrost mode.

5) LED & Display Messages

1. LED off	1. Compressor and defrost deactivated
2. LED on	2. Compressor energized
3. LED blinking 0.5s on/0.5s off	3. Defrost activated
4. LED blinking 0.5s on/1.5s off	4. Sensor fault
5. Display A1	5. Regulation probe fault
6. Display A2	6. Defrost probe fault

3. Use of the XR30CX controller



Fig. 3.1 Digital Controller

1) Display


During normal operating conditions, the display shows the value measured by the air regulation probe. In case of active alarm, the temperature flashes alternately to the code alarm.


1.1 LED Functions


LED	MODE	FUNCTION
❄️	ON	Compressor enabled
❄️	Flashing	Anti-short cycle delay enabled
❄️	ON	Defrost enabled
🔔	ON	An alarm is occurring
°C/°F	ON	Measurement unit
°C/°F	Flashing	Programming phase


1.2 Front Panel Commands

SET: To display target set point; in programming mode it selects a parameter or confirm an operation.



 **(DEF)** To start a manual defrost


 **(UP)**: To see the max. stored temperature; in programming mode it browses the parameter codes or increases the displayed value.


 **(DOWN)** To see the min stored temperature; in programming mode it browses the parameter codes or decreases the displayed value.

 To turn ON or OFF the controller (if enabled)

KEY COMBINATIONS:

 +  To lock & unlock the keyboard.

SET +  To enter in programming mode.

SET +  To return to the room temperature display.

2) Alarm Signals

2.1 Code Description

Message	Cause	Outputs
"P1"	Room probe failure	Compressor output acc. to par. "Con" and "COF"
"HA"	Maximum temperature alarm	Outputs unchanged.
"LA"	Minimum temperature alarm	Outputs unchanged.
"CA"	Serious external alarm (i1F=bAL)	All outputs OFF.

2.2 Alarm Recovery

Probe alarms "P1", start a few seconds after the fault in the related probe; they automatically stop a few seconds after the probe restarts normal operation. Check connections before replacing the probe. Temperature alarms "HA", "LA" automatically stops as soon as the temperature returns to normal value. Alarm "CA" (with i1F=PAL) recovers only by switching off and on the instrument.

3) Temperature Set-Point

3.1 How to see the set-point

1. Push and immediately release the SET key: the display will show the Set-point value;
2. Push and immediately release the SET key or wait for 5 seconds to display the probe value again.

3.2 How to change the set-point

1. Push the SET key for more than 3 seconds to change the Set point value;

2. The value of the set point will be displayed and the “°C” or “°F” LED starts blinking;
3. To change the Set value, push the o or n arrows within 10s.
4. To memorize the new set point value, push the SET key again or wait 10s.

4) Manual Defrost

Push the DEF key for more than 2 seconds and a manual defrost will start.