nVent | **HOFFMAN**

Digital Thermostat Instruction Manual

Industrial Chillers for Liquids

$C\epsilon$

TX110

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GENERAL INSTRUCTIONS

This manual is an integral part of the "Use and Maintenance Manual C17000164" and should be kept with the machine for easy and quick reference.

DISPLAY

View

Status	Top Screen (Red)	Bottom Screen (Yellow)
Adjustment	Adjustment probe temperature	Setpoint
Adjustment with alarms	Adjustment probe temperature	Alarm label/ setpoint
Programming	Variable value	Variable label

Icons

Icon	Status	Meaning
°C	On	Degrees celsius
🔟	On	Compressor active
🔟	Flashing	Delay in compressor start or anti-oscillation delay in progress
Zᶻ	On	Unit on stand-by
⚠️	Flashing	Alarm currently active
🕸️	On	Resistance function
Flow!	Flashing	Flow alarm
Menu	On	Signals entry to the "Features Menu"

A B

When the dot-shaped LED in position "A" is lit, the on-off differential cooling control is active.

When the dot-shaped LED in position "B" is lit, the high-precision cooling control +/−1°K is active

Switching Between °C/°F

Enter programming using the key combination SET+▾ and navigate to the parameter "CF." Select °C or °F.

When °C is selected, the °C symbol will appear on the display.

When °F is selected, the °C symbol will remain off on the display.

KEYPAD

SET	(SET) Allows you to change the setpoint value, access the parameter modification process, confirm the adjusted set value and reset the alarm if resettable (rSt).
△	(▲) Allows you to view the configured probe values, scroll through parameter codes and increase the value.
▽	(▾) Allows you to view the configured probe values, scroll through parameter codes and decrease the value.
❄️	(SNOWFLAKE) Turns the machine on and off into stand-by mode.
⏱ menu	(MENU) Allows you to enter/exit the alarms menu and exit the parameter modification process.

Key Combination

SET + ▽	Allows you to access parameter programming (press simultaneously for three seconds).
SET + △	Allows you to access parameter programming.
△ + ▽	Allows you to lock/unlock the keypad (press simultaneously for three seconds).

Quick Menu

The quick menu allows you to view setpoint and probe values. Press the ▲ button to access the quick menu.

ON-OFF COOLING CONTROL

During the startup phase, if the value of the variable in red is higher than that displayed in the yellow string, the symbol 🔟 flashes with a delay upon startup. Subsequently, when the symbol 🔟 remains a solid light, the machine is in a cooling state.

ON-OFF DIFFERENTIAL COOLING CONTROL (OPTIONAL)

Differential cooling control is available upon request (optional). The thermostat is already set up for this function, you simply need to add the second probe (ambient probe), and change several parameters. This function involves the setpoint of the "dynamic" liquid, where the setpoint temperature of the liquid follows the temperature of the air with a differential set at 2°C lower.

CHANGING THE SETPOINT

A. Press the SET key for three seconds

B. The flashing setpoint appears

C. To change the value, use the keys ▲ or ▼

D. To save the new setpoint, press the SET key

STAND-BY MODE OF THE MACHINE

You can put the machine into stand-by mode by pressing the "SNOWFLAKE" key. The display will show the text "OFF" and the LED 💤 will be lit. The cooling functionality is disabled in this mode.

To return to normal mode, press the "SNOWFLAKE" key again.

VIEW ALARMS ON DISPLAY AND RESET

1. Press the MENU key.

2. The top screen displays the code of the last alarm that was activated, the bottom screen displays its status: "no" if the alarm is still active or "rSt" if the alarm is not still active.

3. Further pressing of the ▲ or ▼ key will display the codes for other alarms, if present.

4. Press the SET key for three seconds to clear the displayed alarm.
   Note: Alarms can only be cleared if the "rSt" icon is displayed. If the "no" icon is displayed, the alarm is still active and therefore cannot be reset.

Msg.	Cause	Solution
"P1"	Faulty thermostat probe	• Check probe connections • Faulty probe to be replaced
"P2"	Faulty ambient probe	• Check probe connections • Faulty probe to be replaced
"P3"	Faulty probe three	• Check probe connections • Faulty probe to be replaced
"HA"	High liquid temperature alarm	Raise the high temperature alarm value "ALU" and, during cooling, check the operation of the various motors by measuring the power consumption.
"LA"	Low liquid temperature alarm	Call service center
"FLU"	Hydraulic circuit alarm	• Check the hydraulic line safety circuit • Check the operating status of the pump (automatic reset rSt)
"FLb"	Hydraulic circuit alarm	• Check the hydraulic line safety circuit • Check the operating status of the pump (manual reset rSt)
"GAS"	Coolant circuit alarm	• Check the coolant line safety circuit • Check that the air filter is clean, if present (automatic reset rSt)
"GAb"	Coolant circuit alarm	• Check the coolant line safety circuit • Check that the air filter is clean, if present (manual reset rSt)
"bPd"	Hot gas by-pass alarm	Call service center

If the operating problem is not resolved, please contact your service center:

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