



Service Information

File In/With:

SI0349

New

517

Equipment Affected: YVAA and YVFA

Low Ambient Temp Cut-off

PROBLEM

Some of the installed base of YVAA/YVFA chillers will require a change of the ‘Low Ambient Temp Cut-off’ set point. This set point change is required when the ambient at the particular installation is expected to go below 25°F (-3.9°C) at any point of time in the operation of the equipment.

- The current ‘low ambient cut-off’ set point may be defaulted to a value of 25°F (-3.9°C).
- The correct set point should be -2°F (-18.9°C).

This set point change can be implemented on a case by case basis, depending on the site requirements. This becomes imperative in colder regions where, if the default value is not changed, the chiller will shut down at 25°F (-3.9°C).

NOTE: This is not a safety issue and will only produce nuisance trips on the chiller.

SOLUTION

The steps to change the value are shown below:

1. Press the Program Key on the Panel and hit “CheckMark.”
2. Scroll to the option to change “Low Ambient Temp Cut-off.”

Work on this equipment should only be done by properly trained personnel who are qualified to work on this type of equipment. Failure to comply with this requirement could expose the worker, the equipment and the building and its inhabitants to the risk of injury or property damage.

The instructions on this service bulletin are written assuming the individual who will perform this work is a fully trained HVAC & R journeyman or equivalent, certified in refrigerant handling and recovery techniques, and knowledgeable with regard to electrical lock out/tag out procedures. The individual performing this work should be aware of and comply with all Johnson Controls, national, state and local safety and environmental regulations while carrying out this work. Before attempting to work on any equipment, the individual should be thoroughly familiar with the equipment by reading and understanding the associated service literature applicable to the equipment. If you do not have this literature, you may obtain it by contacting a Johnson Controls Service Office.

Should there be any question concerning any aspect of the tasks outlined in this bulletin, please consult a Johnson Controls Service Office prior to attempting the work. Please be aware that this information may be time sensitive and that Johnson Controls reserves the right to revise this information at any time. Be certain you are working with the latest information.

15.14. Program Key

- 15.14.1. There are many numeric operating parameters that are programmable. These are modified by pressing the PROGRAM key. The following message is displayed when the PROGRAM key is pressed.

PROGRAM MODE XXXX PRESS ENTER KEY TO CONTINUE
--

- 15.14.2. From this display, press the ENTER key to enter Program Mode. If a password is entered it will display **** where the XXXX is shown.
- 15.14.3. A listing of the limits of the programmable values is found in Table 41. Note that the Imperial units are exact values while the Metric units are only approximate.

Johnson Controls *DOCUMENT PENDING APPROVAL BY STC TEAM COMPANY CONFIDENTIAL	STC ENGINEERING <u>SOFTWARE REQUIREMENTS SPECIFICATION</u> YVAA SCREW CHILLER WITH VYPER VSD	STANDARD NO.	SRS-1068
		REVISION NO.	03.1
		PAGE	109 of 184
		DATE	June 7, 2016
		SUPERSEDES	03.0
		PREPARED BY:	G. Lindberg
		REVISED BY:	G. Lindberg

Program Value	Mode	Low Limit	High Limit	Default
Suction Pressure Cutout	Water Cooling	24.0 PSIG	36.0 PSIG	24.0 PSIG
	Data Center	1.65 Barg	2.48 Barg	1.65 Barg
	Glycol Cooling	5.0 PSIG	36.0 PSIG	24.0 PSIG
		0.34 Barg	2.48 Barg	1.65 Barg
Low Ambient Air Temp Cutout	--	-2.0 °F -18.9 °C	50.0 °F 10.0 °C	25.0 °F -3.9 °C
Leaving Chilled Liquid Temp Cutout	Water Cooling	--	--	36.0 °F
	Data Center	--	--	2.2 °C
	Glycol Cooling	11.0 °F -11.7 °C	36.0 °F 2.2 °C	36.0 °F 2.2 °C

LD22396