Bulletin | Danfoss Turbocor Compressors

Customer Notification

October 27, 2026

B-CN-470-EN REV B

SUBJECT: TTS650 and TGS510 Operating Envelope Correction

Purpose

Revision A of this bulletin contained an incorrect operating envelope in Figure 1. This bulletin includes an updated TTS650 High SST operating envelope.

This bulletin is to inform customers of a labeling error identified in the TTS650 and TGS510 Operating Envelopes contained within the M-AP-001-EN Applications and Installation Manual, Revision U. The Fahrenheit temperature values displayed on the right-hand vertical axis of the operating envelopes (Saturated Discharge Temperature (SDT) [F°]) were not correctly scaled relative to the left-hand axis in Celsius. This labeling error was limited to the High SST envelopes for the TTS650 and TGS510 compressors.

Actual compressor performance and predicted performance are in no way affected. However, compressor operating envelopes may have been misunderstood by customers if reference was taken to the Fahrenheit scale. Customers should reference the corrected values described in this bulletin and available in Revision U.1 of the Applications and Installation Manual, available on our turbocoroem.com website.

Summary

The TTS650 and TGS510 operating envelopes published in the M-AP-001-EN Applications and Installation Manual Revision U include incorrect scaling on the right-hand axis (Saturated Discharge Temperature (SDT) [F°]). The operating envelopes can be found on pages 65 and 67 of the manual.

The Celsius temperature scale shown on the graph is correct; however, the corresponding Fahrenheit temperature scale was converted incorrectly.

Correct Celsius Scale
- 5°C to 70°C

Incorrect Fahrenheit Scale
- 41°F to 131°F

Correct Fahrenheit Scale
- 41°F to 158°F

No compressor performance data, operating limits, ratings, or application guidance have changed. The issue is limited to the Fahrenheit axis labeling contained within the graph.

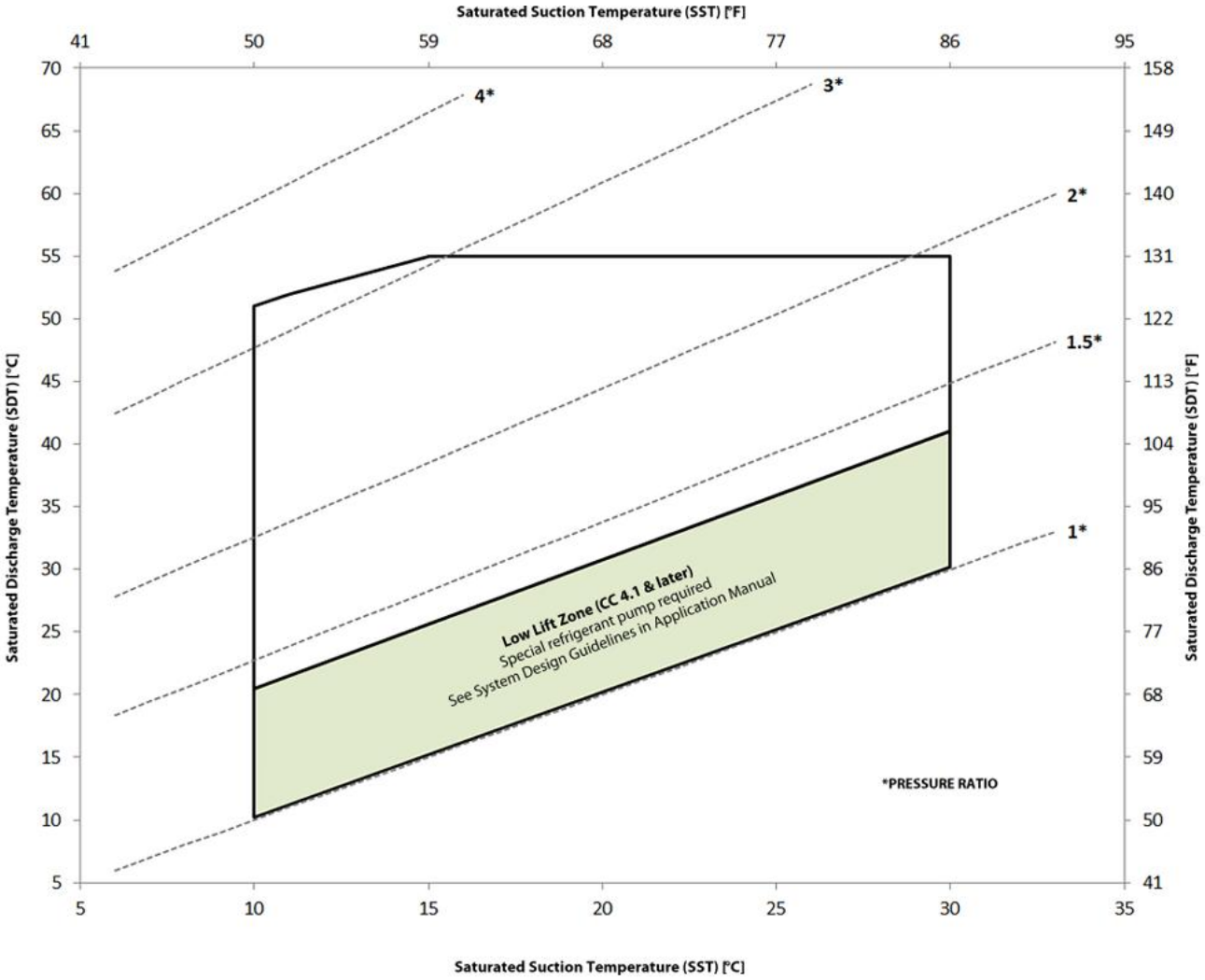


Figure 1 – Operating Envelope, High SST: TTS650

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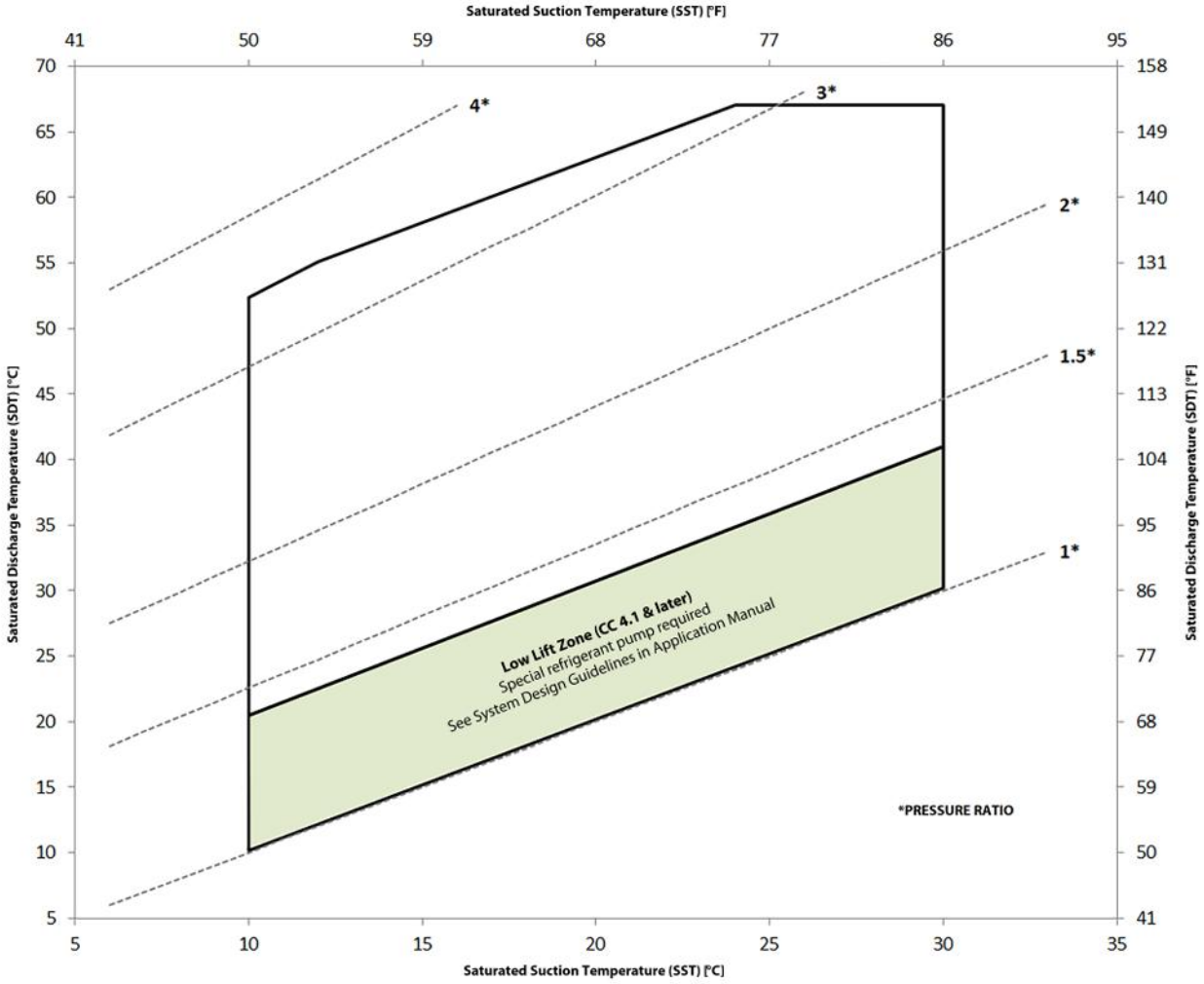


Figure 2 – Operating Envelope, High SST: TGS510

Action Required

Please reference the corrected Fahrenheit scale of **41°F to 158°F** when reviewing the TTS650 and TGS510 High SST Operating Envelopes.

This update has been incorporated into **M-AP-001-EN Applications and Installation Manual, Revision U.1**.

Need Assistance

DTC Applications is available to support our OEM customers. Contact DTC Applications (dtcapplications@Danfoss.com) directly or your local Key Account Manager with any questions.

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