

VTech Tip No. 1: Refrigerant Charging Calibration

Routine calibration is essential to maintaining charging accuracy and overall process quality. Your quality or maintenance department should plan on calibrating the VTech system once per shift or once per day. Instructions for doing this are found in the user manual.

VTech's 100 and 200 series allows the user to perform a refrigerant charge calibration for each unit recipe or a range of charges rather than just one calibration that is applied globally to all charges. A calibration (cubic inch) factor is used, which is determined during the calibration process for each unit. The cubic inch factor is inversely proportional to the fill weight; the larger the number the smaller the charge weight will be. It is clear that if you use the same cubic inch factor for the lighter charges as you do the heavier charges, the further up the linear scale you go the more underweight the charges will be.

You may have several dozen or even hundreds of unit presets, so if you prefer, you can program a series of "dummy" charges which take into account a range. For instance, if you have a charge range from 22 oz. to 168 oz., you can calibrate at a point along some ranges: 20 to 35, 35 to 55 and so forth.

Questions? Need Help? Contact VTech at (404) 432-1629 or g.purkis@vtechonline.com