

New Electronic Units for Secop BD35F, BD35K and BD50F DC Compressors

The present generation of electronic units for our BD35F/K and BD50F range is for the main part based on ASIC technology. Due to end of life of ASIC based components, Secop has developed two new electronic units based on microcontroller technology.

The key improvements of the new electronic units are:

- Significantly improved electronic efficiency, increasing the overall COP by approx. 5%
- Much more flexible by allowing different microcontroller settings via a communication interface using Secop PC software Tool4Cool®
- Reduced electromagnetic interference (EMI) and leakage current (medium improvements with electronic unit 101N0212; significant improvements with electronic unit 101N0650)
- High Starting Torque (HST)

Both electronic units support our BD35F, BD50F and BD35K compressors. They will have the same form, fit and function and are 100% backwards compatible. The only optical difference is the removed heat sink.

Production location

Aiming to be where most of our customers are producing, Secop decided to move the electronic units production from Hungary to our existing manufacturer in China.

Timing

The new electronic units 101N0212 and 101N0650 can be ordered now for delivery from January 2015 onwards, while the old 101N0210 – 101N0260 electronic units will be set to end of life in March 2015.

Replacements

Code numbers label colour (market)	Electronic units being end of life in March 2015	Electronic units being replaced later
101N0212 (Fig.2) white label (aftermarket)	101N0210, 101N0220, 101N0230, 101N0240, 101N0250, 101N0260	-
101N0650 (Fig.3) yellow label (OEM/automotive)	101N0210, 101N0220, 101N0230, 101N0240, 101N0250, 101N0260	101N0600, 101N0630, 101N0640



Fig.1 Old 101N0210 electronic unit



Fig.2 New 101N0212 electronic unit



Fig.3 New 101N0650 electronic unit