Intake Air Pre-Heating

The safe and quick start of the diesel motor (even possible at arctic temperatures and high altitudes) is dependent on warming the intake air. A positive side-effect of this process is reduced exhaust gases and noise during the start and warm-up phases.

In contrast to a flame-starting system, the heat flange consists of only a single component. This makes a considerable contribution to reducing the overall costs of the system.

One particular version that includes a "heating flange with electronics," enables us to cater to specific customer requirements, such as adaptation to control pulses.

The electrical heating output is transmitted to the ambient or through-flowing air via a heating coil. The heating coil consists of highly corrosion-resistant flat wires.

Special forms of the heating coil add to its vibration resistance, thus guaranteeing play-free expansion during temperature increase.

Technical Data and Features

- Voltage range: 12V / 24V
- Power range: up to 7 kW
- Customer-specific development with or without electronics.
- Pre-heating the intake air to optimize cold start behavior
- Enables starting at considerable altitudes (with low air-oxygen content)
- Infinitely variable, dependent on the operating state
- Short pre-heating time from 3 sec.
- Vibration stable, highly reliable
- Contributes to emission reduction via activation during the warm-up phase
- Option: modular control box (kit) available from DBK