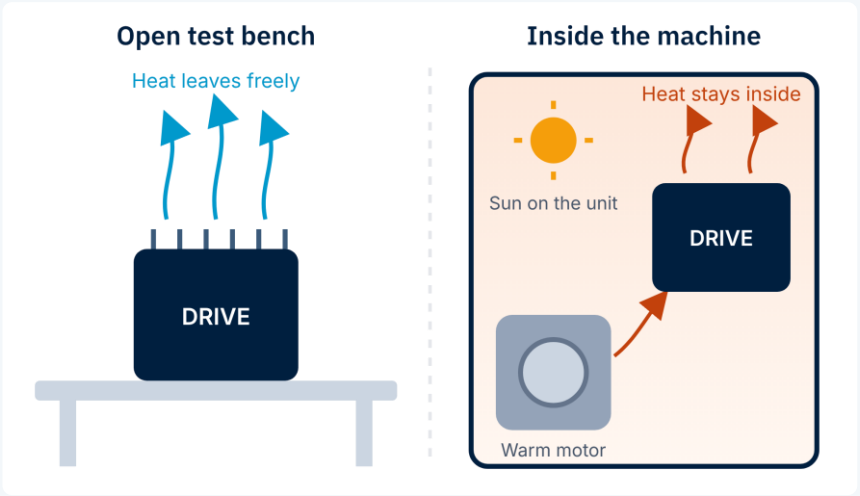
DRIVES · THERMAL INTEGRATION

Will your drive stay cool inside your machine?

3 checks before you confirm the drive position

The conditions change when you close the cover. The motor and nearby parts add heat. Air may not move as freely.



Same electronics, different conditions. Illustration only.

KMD SERIES · EXAMPLE

40 °C

Stated operating range of –20 to 40 °C, with reduced output above 40 °C.

This is why the position of the drive matters when you choose it.

Three things to check before you confirm the position

1

TEMPERATURE AROUND THE DRIVE

The temperature in that space

Measure it close to the drive, with the machine running. Include heat from nearby parts and the expect in daily use.

2

HOW HEAT LEAVES THE DRIVE

How heat will leave the drive

Check the cooling method the drive needs. It may use air, a heatsink or a suitable mounting surface. Leave the space required for that method to work.

3

HOW THE MOTOR RUNS

How the motor will run

Describe how long it runs and how the load changes. Check the drive against that pattern, including the highest loads and any pauses.

⚠ **TEST WITH THE COVER CLOSED.** An open test bench cannot show the conditions inside the finished machine.

HOW KELD CAN HELP

Send us your motor data, a description of how it runs and a sketch of where the drive will drive will go. We review the electrical needs, cooling and mounting with your engineering engineering team.

Review my drive installation

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Sources: KELD, KMD Series brochure (pp. 2, 4) · KELD, Variable Speed Drives · KELD, Pump and Compressor Manufacturers · Checked 20 Nov 2026