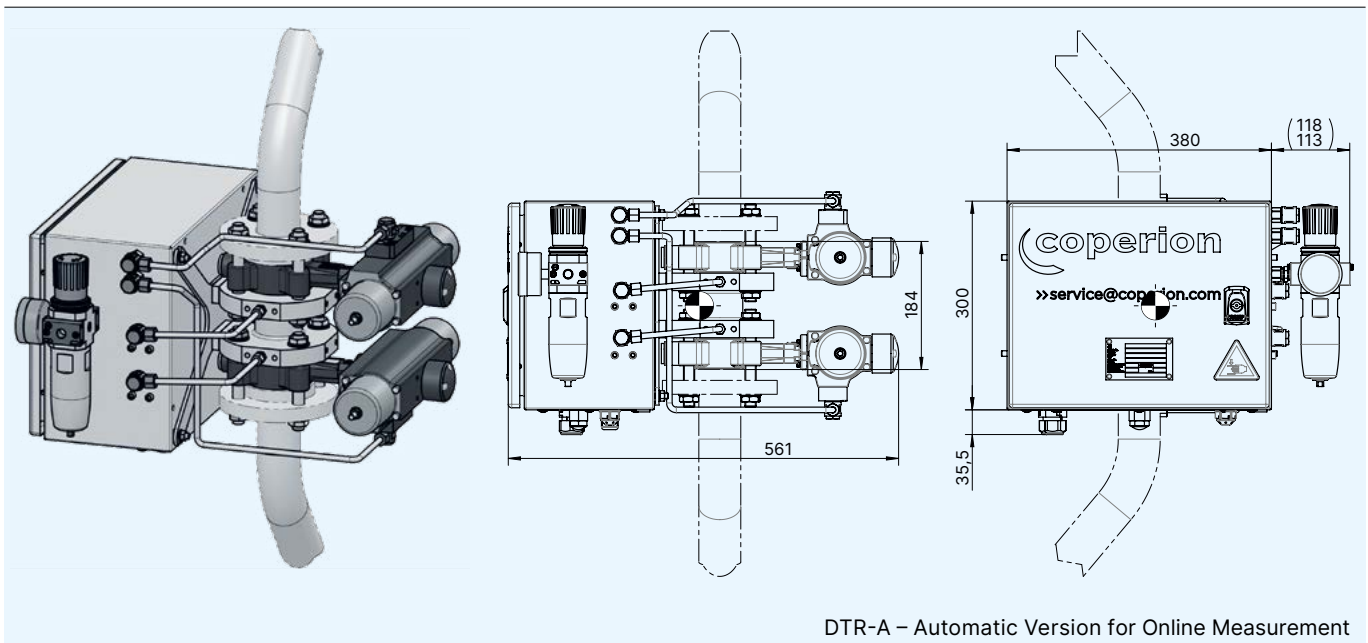




Moisture Analyzer DewTector

FOR ONLINE MOISTURE MEASUREMENT OF BULK SOLIDS

- _ Online measurement in gravity bypass line
- _ For free flowing permeable bulk materials, especially pellets
- _ Simple and reliable direct measurement approach
- _ Pressurized air extracts moisture from an isolated sample, quantification with hygrometer
- _ No need for calibration for each material/recipe
- _ Accuracy: +5 to -15 % vs. Karl Fischer titration
- _ Up to 10 measurements per hour (≤ 500 ppm)
- _ Product temperature: 5 to 70°C



DTR-A – Automatic Version for Online Measurement

Operating Conditions

Bulk Material

In principle, all free-flowing and permeable bulk materials are suitable. Dust in the product is not a problem. We will be happy to test your individual product sample.

Moisture Content

The DewTector can be used for a wide moisture range: from a few hundred to over 10 000 ppm. The product should not be dripping, meaning it should not contain more moisture than it can hold on its particle surfaces and in the inter-particle spaces. Only superficial or easily removable moisture can be captured by the DewTector.

Product Temperature

Maximum: 70 °C (Material resistance)

Minimum: 5 °C (Protection against freezing)

Ambient Temperature

Maximum: 45 °C (Electronics)

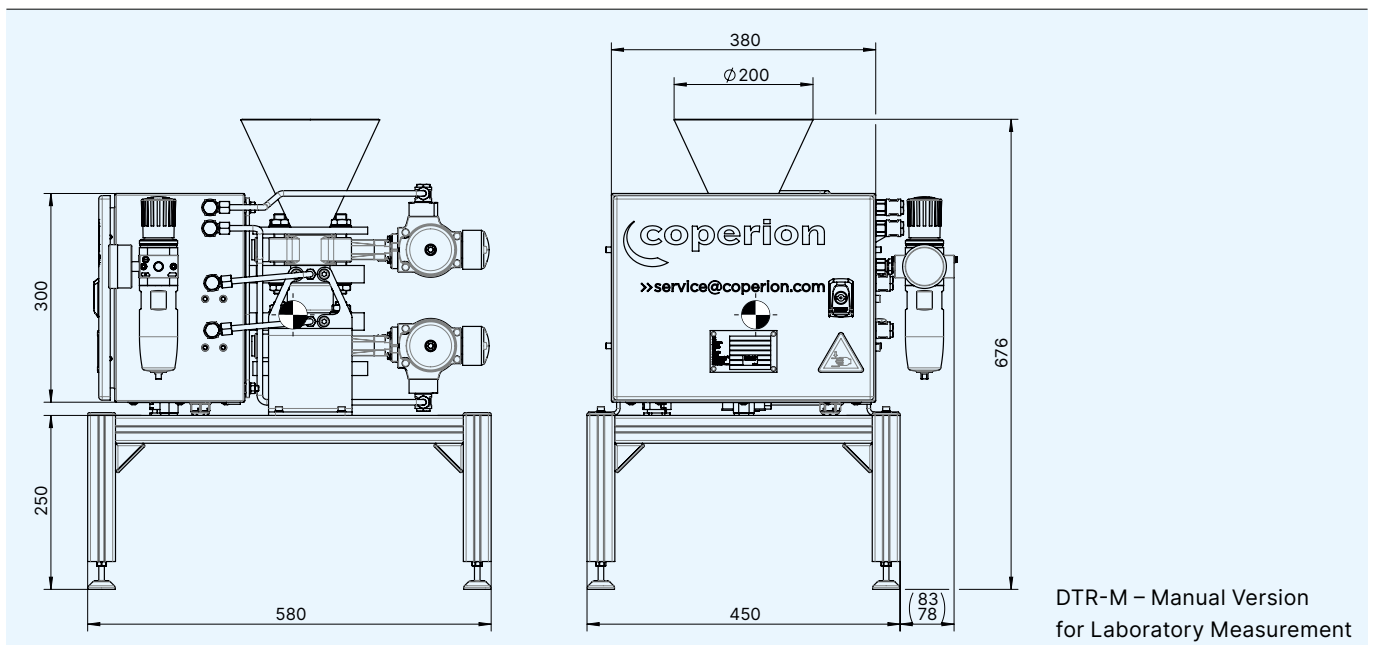
Minimum: 5 °C (Protection against freezing)

In case of frost risk: Heating (e.g., heated control cabinet around it)

Advantages

The DewTector's® measurement principle is ...

- **simple**, as the moisture is extracted from the sample and quantified directly with no need for a costly calibration for each material/recipe (contrary to indirect methods e.g. capacitive, microwave, ...).
- **reliable**, as no calibration errors can occur (contrary to indirect methods). The hygrometer reacts exclusively to water and therefore is unaffected by changes in product composition (additives) or the presence of other volatiles that affect e.g. thermogravimetric approaches.
- **economic**, as it avoids time-consuming and error-prone manual sample taking and analysis.



DTR-M – Manual Version
for Laboratory Measurement

Dimensions:

DTR-A – Automatic Version for Online Measurement

- Height: approx. 30 cm
- Width x Depth: approx. 55 × 55 cm

DTR-M – Manual Version for Laboratory Measurement

- Height: approx. 75 cm
- Width x Depth: approx. 60 × 60 cm

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