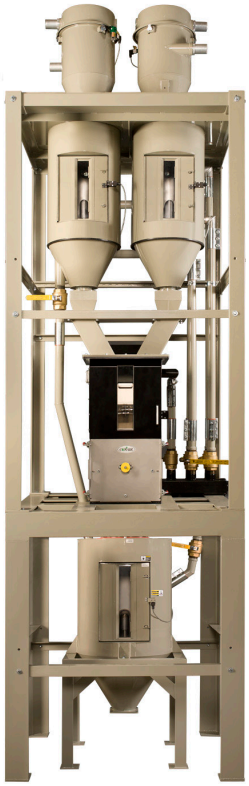
Keep It Dry
While You Blend

When process flow specifications dictate that materials are dried and then blended, your process can suffer from unwanted moisture regain in your dried material. Standard blenders, incapable of dealing with hot material can operate erratically, with seal and/or bearing failures, heat loss, sensor malfunctions and hot surface hazards.

Conair TBI Insulated Blenders are specifically outfitted to handle hot material safely, reliably and most importantly, prevent moisture from re-saturating your dried material.



Model TBI-900
2-component
Insulated Blender

Material Retains Heat and Stays Dry

Built upon the highly accurate and reliable TrueBlend™ Gravimetric Batch Blender design, the TBI Series assures that all ingredients being blended do not lose heat, nor regain moisture as they are inventoried, blended and mixed.

The model TBI provides insulated hoppers, blanketed with dry air and special high heat components that accompany a wide range of standard TB options like vacuum loading systems that can be operated from within the blender control, flow aids, easy cleanout and intuitive touchscreen control.

Material usage reports and other data logging are all available via TrueBlend reporting software.

- **Built to handle hot material**
  Blender is specifically designed for material temperatures up to 375°F {177°C} with insulated drying hopper supply bins.
- **Designed to prevent moisture regain**
  Hot air recirculation through the supply bins keeps materials dry and prevents the re-introduction of wet, ambient air.
- **High temperature construction**
  Load cells, level sensors and air cylinders are specified for their ability to stand up to elevated temperatures. Electronics are isolated from elevated temperatures.
- **A full range of models**
  Models range from 1000 to 9000 gram batches.
- **Fully-featured precision blenders**
  Gravimetric accuracy to ½ of 1%. Automatic self-calibration compensates for material and flow variations. Up to 3000 recipes can be stored in the 7-inch touch screen control. Loaders or receivers can be controlled right from the blender control.

Features

01

Keep it hot and sealed

Supply hoppers are insulated, sealed and equipped with large cleanout doors with strip sight glasses.

02

Short circuit

By-pass/drain line allows priming the process with unblended material and/or draining supply hopper(s).

03

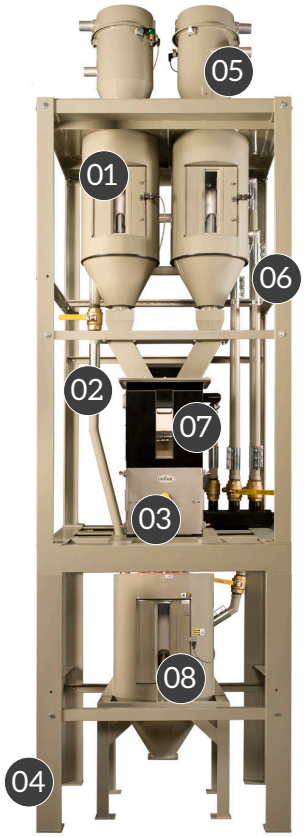
Industrial mixer

Mixing chamber includes a heavy-duty agitator, duty-rated for demanding PET materials plus a high temperature demand sensor.

04

Firm footing

Rugged support frame may be customized for mezzanine, on-the-throat or beside the process mounting.



05

Add conveying

High temperature loading equipment can be specified and controlled by the TrueBlend control.

06

Keep it dry

Dry air is blanketed throughout the supply hoppers to prevent moisture regain as materials wait to be blended.

07

Fully enclosed

Weigh hopper is protected inside enclosure, but is easily accessed or removed for inspection and cleaning.

08

Keep inventory dry

Optional, insulated receiving hopper retains heat and dryness while blended material awaits processing.

Perfect for Recycled PET

Producers of PET sheet, strapping and other products using recycled polyesters can reap significant energy savings and productivity benefits with insulated TBI blenders. These blenders allow separation of virgin and recycled materials until just before they are fed to the feed throat, with these benefits:

- Contamination or other problems in the recycled content does not require shutting down the entire production line. Production can continue on one material, while the questionable ingredient is corrected.
- Virgin and regrind, with significantly different bulk densities and flow characteristics, will reach the machine throat with far less separation (common to drying and conveying), by blending them last.
- Retaining drying heat throughout the blending process means less heat is required during processing, saving significant energy.

Specify Your TBI Blender

- TBI batch blenders are capable of handling materials up to 375°F {177°C} and may be specified:
- Batches from 1000 to 9000 grams.
- Up to 6 components.
- Conveying equipment for supply and takeaway.
- By-pass and drain lines.
- Mezzanine, floor or machine mounting.
- Each TBI includes these features for long life, blending of hot materials:
  - High temperature air cylinders and hosing.
  - High temperature load cells.
  - High temperature level sensor.
  - Tempered sight glasses.