



NON EXPANDED TOBACCO 100%



AircoDiet has supplied more than 65 DIET (Dry Ice Expanded Tobacco) and Impex plants worldwide, many of which have been turn-key projects. We continuously develop and refine our processes; our plants have above 95% uptime with a dry yield better than 98.5% through the plant.

We are a small and flexible organization with a thorough market insight. Being a part of a global market leader within CO² plants – Union Engineering – we have access to a professional knowledge center and modern production facilities.

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DIET

DIET
2400 kg/hr

Expand your cigarette and cigar tobacco to over 100% and obtain a ROI of 1-3 years with DIET

The Aircodiet process utilizes the unique thermal-physical properties of carbon dioxide to expand tobacco over 100%. DIET reduces filler costs with the economical, high quality, high performance generation of extra filling power.

The DIET process

The Dry Ice Expanded Tobacco (DIET) process treats cut filler by impregnation of the cell structure with liquid carbon dioxide under pressure.

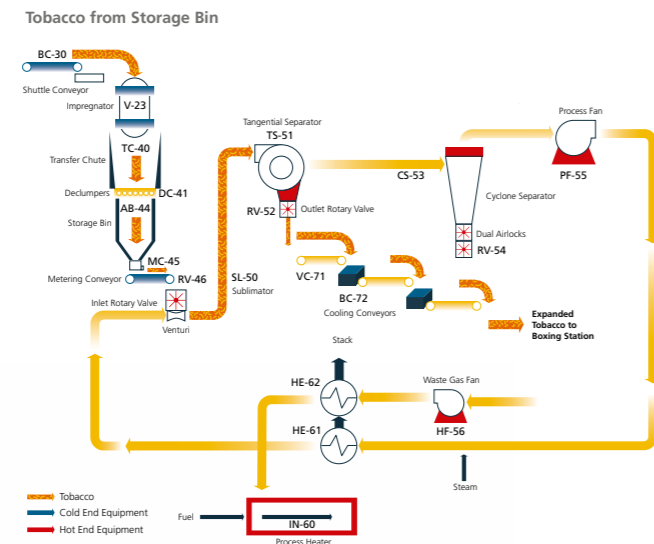
Excess liquid and gaseous carbon dioxide are recovered for reuse by staged pressure release. The carbon dioxide within the tobacco solidifies into dry ice. The impregnated tobacco is then rapidly expanded in a stream of hot gas and, after cooling, is reordered to an acceptable moisture. The DIET product may be packaged or stored. Increasing the filling power of cured tobacco expansion permits the use of reduced weights of tobacco in the production of cigarettes of acceptable firmness. A given weight of twice the volume of the same amount of unexpanded tobacco.

DIET Facts

- The Dry Ice Expanded Tobacco (DIET) process uses liquid carbon dioxide to normally achieve 100% expansion of cut filler.
- DIET expanded tobacco is suitable for Cigarette, Cigar, RYO and MYO product applications utilising the increased volume per weight of tobacco delivered by the process.

- As carbon dioxide is a naturally occurring product of metabolism in plants and animals, tobacco expanded by DIET process is unquestionably pure and natural. Any proportion of tobacco in a blend can be expanded and a corresponding increase in filling capacity will be achieved.
- Four plant sizes are available: 300 kg/ hr, 600 kg/hr, 1200 kg/hr and 2400 kg/hr.
- Aircodiet plants are designed in conformance with prevailing environmental standards. Advanced project management techniques are employed to provide DIET turnkey installations within budget and on schedule.

Aircodiet's continuous technical development program provides process innovations for economic production of high quality expanded tobacco with minimal strand degradation such as C-tower technology.



EXPANDED TOBACCO 200%

DIET
300 kg/hr

300 kg/hr DIET plant meet the small and medium sized producers needs

The 300 kg/hr size dry ice expanded tobacco (DIET) plant is based upon the well known and proven dry ice expansion technology. It is designed as building blocks and pre-tested.

DIET features features

- Only few months from arrival onsite, full production will be achievable.
- Plant is fully assembled and includes control panels and control room and is moreover tested prior to shipment.
- The DIET plant and associated equipment is CE-marked.
- Engineered and 100% standardized DIET plant.
- Extremely short installation time with a minimum of interconnections.
- ALL pressure vessels according to PED.
- Unconditionally turn-key.
- No special building is required and can be installed in a regular warehouse.
- Low overall investment costs with a short payback time.
- Easy to commission and decommission all over the world.
- Full service contracts are offered.

