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.
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 gases carbon dioxide are recovered for reuse by staged pressure releases. The carbon dioxide within the tobacco solidifies into dry ice. The impregnated tobacco is then rapidly expanded by a corresponding increase in filling capacity will be achieved.

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.

Five plant sizes are available: 300 kg/hr, 600 kg/hr, 1200 kg/hr and 2400 kg/hr.

AircoDiet plants are designed in conformity 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 waste degradation such as C-lover technology.

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

DIET features

- Only few months from arrival onsite, full production will be achievable.
- Unconditionally turn-key.
- Plant is fully assembled and inclusive.
- Low overall investment costs with a short payback time.
- No special building is required and can be installed in a regular warehouse.
- Plant is CE-marked.
- The DIET plant and associated equipment is CE-marked.
- ALL pressure vessels according to PED.
- AircoDiet receives according to PED.
- Extremely short installations time with a minimum of interconnections.
- Full service contracts are offered.

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