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**INDUSTRY STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

YC/T 214.1-2006

**Tobacco machinery. Dry ice expansion tobacco plant. Part 1:
Directives for design
(English Translation)**

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Foreword

YC/T 214 "Tobacco Machinery Carbon Dioxide Expanded Leaf Production Line" is divided into three parts.

- Part 1. Design guidelines;
- Part 2. Installation and commissioning guidelines;
- Part 3. Acceptance guidelines.

This part is the first part of YC/T 214.

Appendix A and Appendix B of this section are normative appendices.

This part is proposed by the National Tobacco Monopoly Bureau.

This part is under the jurisdiction of the National Tobacco Standardization Technical Committee (TC144).

This section drafted by. Qinhuangdao Tobacco Machinery Co., Ltd., China Tobacco Machinery Technology Center Co., Ltd.

1 Scope

This part of YC/T 214 specifies the basic principles and general requirements for the design of CO₂ expanded wire production lines.

This part is applicable to the design of carbon dioxide expansion leaf production line (hereinafter referred to as the whole line) and the serial design of the whole machine.

2 Normative references

The terms in the following documents become the provisions of this part by reference to this part of YC/T 214. Quotations with dated , all subsequent amendments (not including errata content) or revisions do not apply to this section, however, encouragement is achieved under this section the parties to the agreement study whether the latest versions

of these documents can be used. For undated references, the latest edition applies to this section.

GB 252 light diesel oil GB 2635-1992 Flue-cured tobacco GB 5226.1-2002 Mechanical safety machinery and electrical equipment - Part 1. General technical conditions (IEC 60204-1:2000, IDT) GB 10621 food additive liquid carbon dioxide GB 16201 Workshop Air Carbon Dioxide Health Standard GB/T 16447 Atmospheric environment for the regulation and testing of tobacco and tobacco products (GB/T 16447-2004, ISO 3402:1999, IDT) GB 50050 industrial circulating cooling water treatment design specification GB 50264 Industrial Equipment and Pipeline Thermal Insulation Engineering Design Specification GB J87 industrial enterprise noise control design specification YC/T 9-2006 Design Specification for Cigarette Factory "Cigarette Process Specification" National Tobacco Monopoly Bureau, Central Literature Publishing House

3 Terms and definitions

The following terms and definitions established in Appendix B of the Cigarette Process Specification apply to this part of YC/T 214.

A continuous, automated production line of equipment required for the entire process of filament expansion using carbon dioxide as the medium.

Note 1: According to the requirements of sharding and centralized control, the CO₂ expanded wire production line generally consists of feeding section, impregnation device, sublimation device, resurgence machine, discharge section, etc.

composition.

Note 2: The main function of the feed section is the preparation of the leaf wire. Different equipment can be selected according to the different requirements of the tobacco factory process. When the raw material adopts the finished tobacco sheet, the feed is fed.

The section can be configured with direct resurgence, storage cabinet, leaf-leaving machine, wire cutter, wire storage cabinet and other major equipment; when the raw material is made of wire, the feeding section can be equipped with a reflow machine and storage.

Main equipment such as silk cabinets.

Note 3: The impregnation device, sublimation device and resurgence machine are the three main engines of the expanded blade. Generally, there are fixed configurations, which should not be changed too much, but according to the production capacity.

Different, configure different specifications and models.

Note 4: The main function of the discharge section is the transportation and storage of the expanded leaf of the finished product. Different equipment can be selected according to the different

requirements of the tobacco factory process. Generally optional Choose equipment such as storage or direct packing.