



FalconSynergy Tech : FlexDry PortaRack - A travel friendly clothes dryer

Faculty : Faculty of applied Science

Program : Bachelor of science (Hons.) Biology

Program Code : AS201

Course : Technology Entrepreneurship

Course Code : ENT600

Semester : Semester 3

Group Name : AS2013A2

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**Submission Date
23 December 2023**

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EXECUTIVE SUMMARY

The FlexDry PortaRack is a modern portable clothes dryer that was created to solve the problems that contemporary travellers encounter while trying to dry their garments quickly while on the road. Convenience, usefulness, and hygiene maintenance are the goals of this creative approach, which does not rely on costly washing facilities or conventional air-drying techniques.

A thorough methodology was used in the development of the FlexDry PortaRack, which included market research and analysis, target audience definition, conceptualization and design, prototyping, technical development, adherence to standards, manufacturing, marketing, and branding, distribution and sales, and ongoing improvement based on user input and industry trends.

The product addresses the inefficiency of traditional drying methods, limited access to laundry facilities, and the energy inefficiency of existing portable dryers. Through observation, surveys, and extensive research, the team identified the specific needs and preferences of travellers, leading to the creation of a compact, lightweight, and energy-efficient clothes dryer that fits well within the constraints of travel.

The FlexDry PortaRack not only provides a practical and hygienic solution for travellers but also fills a significant market gap. Its incremental enhancements and increased value within the current product market make it a compelling choice for individuals seeking a reliable and convenient solution for drying their clothes while on the move. The FlexDry PortaRack will completely transform the way travellers maintain hygiene and cleanliness while travelling, with an intense focus on customer input, ongoing improvement, and compliance with safety and regulatory requirements.

1.0 INTRODUCTION

As a traveller while travelling, they frequently run into lots of difficulties when trying to dry their clothing especially socks and undergarments. One of the main problems, which causes a number of problems, is the absence of dependable and practical solutions for drying clothes. Travellers may find themselves with limited options when it comes to traditional laundry services in certain countries due to their limited availability, cost, or accessibility. Furthermore, it may not be possible to rely only on natural air drying, especially in cases of severe weather or when time is of the importance. With wet or unclean clothing becoming a problem for travellers and ruining their comfort level and overall travel experience, there is a clear need for a fast, effective, and portable solution. The FlexDry PortaRack is a ground-breaking solution that skilfully incorporates technology's strength into the application of traveller clothes care, among the rapidly changing world of technological innovation. The FlexDry PortaRack takes use of this potential to transform how people take care of their clothes while travelling, as technology continues to play a significant part in our everyday lives by improving efficiency and providing solutions to a variety of challenges. This portable clothes dryer, which is the result of careful application of knowledge and abilities, is an example of technical development that provides an efficient, effective, and user-friendly resolution to the enduring problem of drying clothing while on the road. Because of this, the FlexDry PortaRack not only represents the values of technical advancement but also represents a revolutionary advance in clothes care, offering a smooth and effective journey for today's proficient in technology traveller.

We decided to invent a travel friendly clothes dryer named FlexDry PortaRack which stands for flexible dry portable rack. This product was developed for people who love travelling alone or with family. Presenting the FlexDry PortaRack, an innovative solution for modern travellers looking for the best in ease when it comes to drying their clothes. The FlexDry PortaRack is a tiny, flexible clothes dryer that was developed with those always on vacation in mind. It will change the way you dry the clothes you wear while travelling. This travel companion expands effectiveness and portability with its unique folding shape and modern drying technology. Your clothing will be dry, clean, and prepared for your next journey with the FlexDry PortaRack, which folds to expose a strong and effective drying system that fits neatly into your luggage. FlexDry PortaRack offers the convenience of a personal dryer wherever you travel, so say goodbye to the headaches of placing laundry facilities or waiting for clothing to air dry.

A survey has been conducted by our team to understand our customer needs. This survey helps us learn about the particular requirements and preferences of our potential clients. Product development may be guided by knowing what features, efficiency, or design elements are most important to our target market. This survey also provides the chance to confirm if there is a market for our product. We can decide whether there is a market for the FlexDry PortaRack by assessing interest levels and prospective acceptance rates. From the survey conducted we obtained 62 respondents.

1.1 Problem statement

The problems that modern travellers encounter on a daily basis such as the practicality, time commitment, and affordability with traditional washing solutions highlight the importance for improvements in portable clothing drying technologies. The lack of a portable, lightweight, and travel-friendly clothes dryer makes it more difficult for people to keep their clothes dry and clean when travelling, which leaves a big market gap. It is important that this issue gets fixed in order to provide travellers with a practical and hygienic solution and transform the way they store their clothing while travelling.

This problem statement explains the current situation, the shortcomings of the available fixes, and the particular requirement for travel-friendly portable clothes dryers. It creates a foundation for our idea by highlighting the useful advantages it would provide for those who are constantly on the go.

1.2 Methodology

Our company has used several kinds of methods to gather information for customer feedback on the product we invent :

1. Observation

Our company made an observation based on the problems faced by our family members and ourselves too whenever they went to travel. They always think about their clothes first because they want to ensure all their outfit looks good along the travelling journey. So we decided to invent a product that can ease their problem.