MYRRHA Cryoplant Technical Requirements

# Introduction

This document outlines the technical requirements for the MYRRHA Cryoplant (QPLANT) based on the Deep Research report.

## System Overview

The cryoplant system consists of multiple components including cryomodules, cold valve boxes, and cryogenic lines.

|  |  |  |
| --- | --- | --- |
| Component | Weight (kg) | Temperature (K) |
| Cryomodule (QM) | 1000 | 4.5 |
| Cold Valve Box (QVB) | 200 | 4.5 |
| Cryogenic lines | 50 | 2.0 |

## Key Features

* High efficiency cooling system
* Modular design for scalability
* Advanced monitoring and control