# Introduction

This document is part of a test case for the Trace Tool. As such, these are not real requirements, but they do resemble real requirements.

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# System Details

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# Software Requirements

**PUMP:PRS:1** The pump **shall** provide both a bolus and basal feature. **[PUMP:URS:1]**

**PUMP:PRS:2** The pump **shall** limit boluses to not exceed 25 units. **[PUMP:RISK:10]**

**PUMP:PRS:3** The pump **shall** limit boluses to not exceed 15 units/hour. **[PUMP:RISK:20]**

**PUMP:PRS:4** The software **shall** provide a programmable correction factor feature. **[PUMP:URS:3]**

**PUMP:PRS:5** The software **shall** provide a programmable carb ratio feature. **[PUMP:URS:3]**

**PUMP:PRS:8** The software **shall** provide a reverse correction feature for the bolus calculator. **[PUMP:URS:8] [PUMP:RISK:30]**

**PUMP:PRS:10** The software **shall** provide a means for the user to select between at least five different European human languages. **[PUMP:URS:10]**

**PUMP:PRS:100** The pump **shall** include a rechargeable Lithium Polymer Battery. **[PUMP:URS:100]**

**PUMP:PRS:105** The pump **shall** include fuel gauge hardware for the lithium polymer battery. The battery charge shall be displayed to the user. **[PUMP:URS:103] [PUMP:RISK:40]**

**PUMP:PRS:1000** The pump **shall** include pressure sensors for use in conjunction with the ideal gas law. The gas law **shall** be used to estimate remaining insulin volume. **[PUMP:URS:1000] [PUMP:RISK:50]**

**PUMP:PRS:3330** The pump **shall** weight no more than 8 ounces dry. **[PUMP:URS:3330]**

**PUMP:PRS:3340** The pump **shall** fit within a volume of 3” by 2” by 0.75”. **[PUMP:URS:3330]**

**PUMP:PRS:3350** The pump **shall** include a full color touchscreen. **[PUMP:URS:3350]**

**PUMP:PRS:4000** The pump **shall** include an automated dosing algorithm. **[PUMP:URS:4000]**