**Client Requirements**

This appendix contains a comprehensive breakdown of the requirements specified by the client, Fisher & Paykel.

Fisher and Paykel consulted EED.inc with the intent to utilise a new Linear Compressor Controller (LCC) for their Britten compressors to achieve intelligent control. The product is targeted for customers of both their premium industrial and consumer level refrigeration systems.

Linear motors have superb energy saving characteristics -far superior to that of traditional rotary motor compressors in older refrigerators. The reason for their superior characteristics lies in their construction as it is possible for linear motors to make use of mechanical resonance of springs, attached around either end of the motor shaft. Additionally, linear motors are more elongated but compact in size compared to rotary motors, minimising inefficient use of valuable refrigerator body real estate.

A detailed table of the Client Requirements presented by Fisher & Paykel is shown in Table X along with corresponding numerical values, if applicable. The requirements shown are broadly categorised into 2 sections; Design Requirements, which specify numerical or functional design constrains, of which our design must comply with, and Design Objectives which must be investigated but do not have a definitive final design target. Caption table

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