| Requirement / need          | Feature                       | Detail   |
|-----------------------------|-------------------------------|--|
| Product operates silently   | Whisper-quiet motor           | A low rpm motor to move blinds slowly to limit mechanical noise.   |
| Product operates silently   | Soft motion                   | Gradually engaged acceleration and deceleration to prevent clicking of gears or motors                           |
| Product operates silently   | Vibration resistant mounts    | Rubber or silicone fittings to absorb vibrations that may be generated from blind usage                          |
| Product operates silently   | Low friction track system     | Coating gears or tracks in oil or grease to prevent sound due to mechanical friction                             |
| Product operates silently   | Sealed product housing        | Encapsulate the full products housing to limit and dampen sound from use.  |
| Product updates user        | Mobile app dashboard          | Displays all current status of blind and temperature engagement  |
| Product updates user        | LED indicator                 | A light to reflect current mode eg. heating, cooling, idle   |
| Product updates user        | Voice assistant               | Hooks into alexa or goggle home systems for quick updates  |
| Product updates user        | Energy savings report         | Monthly phone notification summarizing months results from blind usage   |
| Product updates user        | Motion feedback               | Blinds pause or briefly "bounce" before engagement to display a new setting is engaged                           |
| Product reduces power usage | Adaptive movement scheduling  | Instead of constant adjustments the blinds will periodically ping to check whether an adjustment is within range |
| Product reduces power usage | Sleep mode                    | Once temperature and light levels are within idle range product limits all other features                        |
| Product reduces power usage | Solar powered microcontroller | Draws from solar energy first before using any supplied battery power  |

| Product reduces power usage    | Position memory           | Product stores last position in temporary memory to avoid needing to scan and calibrate itself to identify previous positioning. |
|--------------------------------|---------------------------|--|
| product reduces power usage    | Reduced sensor polling    | When within ideal ranges, sensors and probes will only read the environment half as often.                                       |
| Product emphasizes user safety | Obstacle detection sensor | Reads above and below lowest point of blinds and will not activate if something would impede operation                           |
| Product emphasizes user safety | Overheat protection       | Shuts all operations off if internal housing becomes too hot   |
| Product emphasizes user safety | Child safety lock         | Prevents manual operation while active   |
| Product emphasizes user safety | Safe construction         | Only smooth edges and flame resistant materials  |
| Product emphasizes user safety | Automatic fault alerts    | Notifies user of any physical errors preventing blind operations   |
| Product supplies suggestions   | Energy optimization tips  | Informs user of ideal settings to limit use of HVAC  |
| Product supplies suggestions   | Comfort reminders         | Suggests manual adjustments during periods of unnatural weather  |
| Product supplies suggestions   | Routine based advice      | Learns user preference and suggest setting and timers that match the users current cycle and habits                              |
| Product supplies suggestions   | Seasonal memory           | Remembers trends of past seasons to better adjust to internal and external climates of current areas trends.                     |
| Product supplies suggestions   | Maintenance alerts        | Offers routine updates of when product may need service from charging batteries to replacing motors.                             |