

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.