

Product-focused requirement statements for soldering fume extractor

Importance	Primary Req.	Secondary requirements	Performance metrics
3	Can be easily moved and positioned	<ul style="list-style-type: none"> Is as big as your hand Doesn't take up too much space Stores away when not in use Doesn't interfere with soldering Is lightweight Stays in position 	<ul style="list-style-type: none"> Maximum footprint dimension Maximum weight Range of motion while secured to bench
9	Is effective at removing smoke	<ul style="list-style-type: none"> Sucks all smoke away Exhaust, doesn't just mix the air No smell Vents to outside 	<ul style="list-style-type: none"> Number of speed settings Flow rate range Range of motion while secured to bench
3	Has convenient and useful controls	<ul style="list-style-type: none"> Variable speed or multiple speeds On-off switch Auto-sensing Remembers settings Goose neck Can clamp to the bench 	<ul style="list-style-type: none"> Number of speed settings Flow rate range Range of motion while secured to bench
3	Is economical	<ul style="list-style-type: none"> \$10, \$25 Could be DIY hacked Less expensive than soldering iron 	<ul style="list-style-type: none"> Cost of mass-produced product Cost of replacement filters Power supply voltage
3	Is safe	<ul style="list-style-type: none"> Can't stick finger into fan No electrical hazard No fire hazard Removes smoke, doesn't just mix it Doesn't use chemicals to hide smell 	<ul style="list-style-type: none"> Range of motion while secured to bench Power supply voltage