

Requirements matrix for fume extractor

Market requirements		←	Performance measures									Units						
		Imp ↓	Upper	Acceptable	Ideal	Lower	Acceptable	Imp ↓	1	2	3	4	5	6	7	8	9	
1	Can be easily moved and positioned	3	8	10	16	16	3	3	•	•								cm
2	Is effective at removing smoke	9	0.3	0.8	2	2	3	3										kg
3	Has convenient and useful controls	3	0.05	0	0.01	0.01	15	15			•	•						m ³ /s
4	Is quiet	3	5	3	1 (on/off)	1 (on/off)	12	12			•	•						#
5	Is economical	9	30	35	50	50	12	12				•	•					dB
6	Is safe	9	50	30	20	20	33	33	•	•	•	•	•	•	•	•	•	cm
			10	15	30	30	15	15										\$
			1	2	5	5	9	9										\$
			5	5	12	12	18	18										V