

RABScreen Air Intake Screens

Energy Calculations

Air Intake Screen Energy Calculations			
Cooling capacity	Clean coil cost £	Dirty coil cost £	Extra cost
10kW	361	470	109
20kW	722	984	262
30kW	1083	1409	325
40kW	1445	1878	433
50kW	1806	2347	541
75kW	2708	3521	813
100kW	3611	4695	1084
200kW	7223	9389	2166

Qualifications

- Cooling capacity divided by a 3.19 coefficient of performance to give input kW
- kW to kWh is based on 120 days at 8 hours running per day
- kWh multiplied by 0.12 per kW to give total cost when clean
- 1mm of dirt on coil surface reduces efficiency by 21% (Dirty)
- 21% reduced efficiency increases energy demand by 30%
- Extra cost based upon 30% of efficient plant energy input

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