

FACT SHEET OVERVIEW

RESIDENTIAL FLAT BUILDING WASTE COLLECTION INFRASTRUCTURE



ABOUT THE FACT SHEETS

This fact sheet series has been prepared as a quick reference resource for councils on a range of waste collection and associated infrastructure for residential flat buildings.

Fact sheet content has been collated from review of publicly available and published information, as well as case study data and anecdotal evidence sourced from infrastructure providers and councils.

No guarantee can be provided as to the accuracy of the content past the published date. Infrastructure providers should be consulted for further information.

COSTS AND WARRANTIES

Cost details for each waste collection infrastructure type have been divided into upfront capital expenditure costs and operational expenditure costs for ease of reference.

Indicative cost ranges are provided only. In lieu of available data it was necessary to make informed assumptions to provide indicative cost details. Warranty details and expected lifetimes of the infrastructure have been provided where made available by infrastructure providers.

RFB Waste Collection Infrastructure Type	Indicative Upfront Costs ¹	Indicative Operational Costs		Warranty	Expected Lifetime
		Maintenance	Staff Resources		
Bins and Service Lifts	S: \$110,000 to \$125,000 M: \$130,000 to \$145,000 L: \$150,000+ (service lift)	\$6,000 per annum (per lift)	2 days per week (daily rotation of bins)	1 to 4 years (for lifts)	3 to 5 years (bins), 10 to 15 years (lifts)
Single and Dual Chute Systems	S: \$12,000 to \$21,000 M: \$24,000 to \$33,000 L: \$36,000+ (dual=single x2)	Single: \$800 to \$1,200 per annum Dual: Double the cost of single (6 monthly servicing of chute doors)	2 days per week (rotation of bins, chute blockages)	10 years for chutes, 12 months for fire rated chute doors	10 years
Chute Diverter Systems	S: \$24,000 to \$32,000 M: \$35,000 to \$43,000 L: \$45,000+	\$800 to \$2,500 per annum (3 to 6 monthly servicing)	2 days per week (rotation of bins under chutes, chute blockages)	10 years for chutes, 12 months for fire rated chute doors	10 years
Underground Bins	S: \$90,000 to \$140,000 M: \$150,000 to \$220,000 L: \$240,000+	\$3,000 to \$7,500 per annum (3 monthly servicing, replacement of hydraulic parts every 4 or 5 years)	Less than 1/4 day per week (checks)	60 months for mechanical, hydraulic and electrical parts	10 years
Underground Compactors	Single building cost ³ : \$95,000+ (1 compactor)	\$3,000 per annum (3 monthly servicing, replacement of hydraulic parts every 4 or 5 years)	1 day (checks, rotation of recycling bins)	60 months for mechanical, hydraulic and electrical parts	10 years
Above-ground Compactors ²	Single building cost ³ : \$75,000+ (1 compactor)	\$3,000 per annum (annual maintenance and monitoring services)	1 day (checks, rotation of recycling bins)	12 months	10 years
Stationary Vacuum Systems	Minimum system cost ³ : ~\$750,000 (guide only)	Minimum system cost: ~\$25,000+ per annum (guide only)	Nil (monitored in real-time from central terminal station)	n/a	30 years for pipes
Mobile Vacuum Systems	n/a (highly dependent on unique system needs)	n/a (highly dependent on unique system needs)	Less than 1/4 day (checks)	n/a	30 years for pipes
Turntables	Single building cost: \$32,000 to \$101,000 (dependent on truck size)	\$1,000 to \$3,000 per annum (6 to 12 monthly servicing)	Less than 1/4 day (checks)	2 to 15 years (turntable), up to 5 years (moving parts), 10 years (structure)	10 years
Food Organics Dehydrators ²	Single building cost: \$20,000 to \$150,000 (dependent on building size)	Single building cost: \$12,000 per annum (potential for reduced costs with less garbage in red lid bin)	1/2 day (food organics bin rotation, machine operation and emptying)	12 to 36 months	10 to 20 years
Bulky Household Waste Solutions ²	\$550 per bulk MGB \$800 per cage or skip bin	Cost to replace lid or bin as required	1/4 day (monitoring bulky waste, coordinating collections)	10 years (skip/hooklift bins)	5 to 8 years

Notes: 'n/a' = not available or not suitable for comparison. Check fact sheets for further details.

1 = majority of costs exclude cost of installation / civil works

2 = lease options available

3 = compactors assumed for garbage only, vacuum system assumes 4 buildings of 250 dwellings each

Assumptions: Single tower building with an average of 10 to 12 units per floor

Small system = 4 to 7 floors, medium system = 8 to 11 floors, large system = 12+ floors

This project is a NSW EPA Waste Less, Recycle More initiative funded from the waste levy.

