BMS *(North America) Ltd.*

BMS Blivet™ - Specifications & Disposal Field Size

Blivet™	PE[1] Nominal	Houses Served[2]	BOD/Day (Average)	Flow/Day Dry Weather	Blivet Size Imp. (metric)	Disposal Tile Field[A]	Configuration Options
BL500	50	12	2.75kg	11,500 liters (2,530 gal.Can.) 0.133 l/sec	16'-1" (4.9m) L 7'-5" (2.27m) W 9'-9" (3.0) H	150 ft. (45m)	3 - 50 ft. (15m) 2 - 75 ft. (23m)
BL1000	100	25	5.50kg	23,000 liters (5,059 gal. Can.) 0.266 l/sec	17'-8" (5.375m) L 7'-5" (2.27m) W 9'-9" (3.0m) H	300 ft. (90m)	6 - 50 ft. (15m) 4 - 75 ft. (23m) 3 - 100 ft. (30m)
BL1500	150	37	8.25kg	34,500 liters (7,588 gal. Can.) 0.40 l/sec	21'-0" (6.4m) L 7'-5" (2.27m) W 9'-9" (3.0m) H	450 ft. (135m)	9 - 50 ft. (15m) 5 - 100 ft. (30m)
BL2000	200	50	11.00kg	46,000 liters (10,118 gal. Can.) 0.532 l/sec	24'-8" (7.5m) L 7'-5" (2.27m) W 9'-9" (3.0m) H	600 ft. (181m)	12 - 50 ft. (15m) 8- 75 ft. (23m) 6 - 100 ft. (30m)
BL3000	250	62	13.75kg	57,500 liters (12,648 gal. Can.) 0.666 l/sec	30'-6" (9.285m) L 7'-5" (2.27m) W 9'-9" (3.0m) H	750 ft. (226m)	15 - 50 ft. (15m) 8 - 100 ft. (30m)
BL3500	325	81	17.87kg	74,750 liters (16,442 gal. Can.) 0.865 l/sec	33'-1" 10.075m) L 7'-5" (2.27m) W 9'-9" (3.0m) H	975 ft. (294m)	20 - 50 ft. (15m) 10 - 100ft.(30m)
BL4000	400	100	22.00kg	92,000 liters (20,237 gal. Can.) 1.065 l/sec	35'-9" (10.9m) L 7'-5" (2.27m) W 9'-9" (3.0m) H	1200 ft. (362m)	24 - 50 ft. (15m) 16 - 75 ft. (23m) 12 - 100 ft.(30m)

Notes:

A. Tile field sized for 4" rigid perforated piping. An automatic dosing siphon is recommended.

[1]PE - Population Equivalent. For quick reference one (1) PE approximates one (1) person. Note that the selection of unit(s) may vary for the final effluent quality required. Nominal PE number shown is to produce final effluent quality to 20mg/liter BOD and 30mg/liter TSS, from influent raw sewage of 250mg/liter BOD and 300mg/liter TSS.

[2]Houses Served - based on an average of four (4) persons per house.

Package Sewage Plant Drainfields

After the sewage has been treated (and in some cases the effluent is filtered), the drainfield is merely a way to disperse the water.

In poor draining soil: drainfield area = total sewage flow in L/day x 0.012m²/L (US gal/day x 0.49 ft²/US gal.)

In well draining soil: drainfield area = total sewage flow in L/day x 0.006m²/L (US gal/day x 0.23 ft²/US gal.)

Source: Mech. & Elect. Equip. for Buildings 7th edition 1986 (Stein/Reynolds/McGuinness)

For the selected fields noted in the table above, the trench percolation area was taken to be 1.5244m (5ft.), which is 3ft. bottom and sides of 1ft. each = 5ft.

For final field size selection, a soil profile of the site would determine the soil condition and the appropriate formula used, or an interpolation of both formulas.

Example: For a BL4000 unit with a flow of 92,000 liters/day and using the amount for well-draining soil Of 0.006 m²/liter the field would be 552 m². Allowing for a trench bottom of 1.5244m, the length of the perforated drain would be 362m (1,188ft.)

With a policy of continuing research and development, the above specifications are subject to change without prior notice.

BMS January 2014

BMS Blivet™ - *Innovation for an Unspoiled Environment*