

RUSS MINIPACTOR

GENERAL SPECIFICATIONS



The **Russ Minipactor** was specifically designed to satisfy the needs of the small Communities and Councils with a diverse range of refuse bins. The unique bin lifter system developed for the **Russ Minipactor** provides the operators with the ability to



safely and *efficiently handle 120, 140 and 240 litre wheelie bins*. Legacy 200 litre (44 gallon) drums are also handled with ease. Our **Russ Minipactor's** are available in 8, 10 and 12 Cubic Metre.

Consultation with Community and Council Staff were instrumental in developing the following design parameter for our range of Compactors

- ✓ Rugged, reliable yet inexpensive with minimal maintenance costs.
- ✓ Simple and safe operation requiring minimal operator training.
- ✓ Continuous operation in severe climatic conditions, as experienced in the tropics, without experiencing overheating or the need for hydraulic cooling systems.
- ✓ Simple straight forward servicing requirements without the need for special tools, equipment or training.
- ✓ Designed for minimum moisture traps and maximum corrosion resistance.
- ✓ Most replacement parts and components readily available.
- ✓ Simple straightforward vehicle change over process when necessary. Minipactor lifespan can exceed a number of vehicle lifespans.

The original design proved so successful, the current series of Minipactor bodies have changed little. The curved sides, radiused corners, and fully welded body joints provide the basis for an exceptionally strong and reliable unit.



This also assists in reducing corrosion. The effectiveness of Bissalloy in the critical wear areas demonstrated by ZERO replacement in this area after 15 years and over 90 units.

The **Russ Minipactor** comes standard with a Kerbside door, providing safe "off road" refuse loading via the use of our unique narrow profile Binlifter. The low door height also lends itself well to hand loading of larger bulky items, if needed.

The rear bubble door is supported by two robust, heavy duty fully fabricated hinges. These door hinges are designed to easily accommodate the compaction pressures experienced during normal operation. The door is securely held closed by the over centre door lock. The rear door is also fitted with yellow safety props to ensure the door is securely held open for maintenance and cleaning of the unit.

Compaction is performed by the heavy duty, fully fabricated, blade that travels horizontally in a fully guided sump on replaceable Bissalloy wear pads. The blade is specially shaped to roll the load up the rear door to ensure maximum loading and more evenly distributed compaction across the load. A double acting, two stage hydraulic ram provides

adequate power for the compaction process. Specially designed throttle advance systems ensure the correct compaction pressures are available on demand. Rubbish ejection is performed by the same blade quickly and with minimal fuss. Simply open the rear door and extend the compaction ram fully. The potential for **stability loss during unloading is removed** completely by using this system.



Our **Russ Minipactor's** offer two types of operating controls with the choice of fully electric operation or a pull lever operation



The **Russ Minipactor's** also have two types of Perkins Bin Lifting systems, The Comb Lift and a Kerbside Lifting system. Both units are rotary systems, lightweight, compact and reliable with very quiet operation. The Perkins Binlifter systems provide years of trouble free service with minimal maintenance requirements. The Comb lift system requires manual loading of the bin onto the comb lift while our kerbside unit is fully operational from inside the cabin of the truck depending on personal preference and requirements. Both lifting systems are designed to be used with all currently available bin types and more closely meet the lifting method the bin is designed for.



← **Kerbside Unit**

Comb Lift Unit →



Power for the hydraulic system is provided by the direct coupled, heavy duty pump. The pump provides the higher flow rate and pressures necessary for the compaction/ejection cylinder. The lower flow and pressure requirements for the bin lifter is provided though adjustable priority valves to ensure maximum control and efficiency. This system is designed to **minimise heat generation or interactive circuit issues**. The large capacity reservoir, complete with built in return line filtration supplies the hydraulic system. Gate valves fitted to the reservoir removes the need to drain the reservoir during maintenance on the hydraulics. The sight guage fitted directly to the reservoir permits easy monitoring of levels. Combined filler/breather unit provides the "breathing" necessary for the system.

The hydraulic pump is coupled directly to the Power Take Off (PTO) unit fitted to the vehicle gear box. Oversize hydraulic hoses to all appliances further assist in minimising heat generation whilst easily supplying sufficient oil to meet the highest demands of the pump at all times. Each circuit has its own control valve fitted with *adjustable pressure relief valves*.

Sandblasting prior to painting helps minimise corrosion and provides better paint adhesion and lasting superior gloss finish. Special *corrosion inhibiting pre-prime treatment* is then applied to the compactor shell. This is left to cure for 24 hours. The complete body is then covered with at least two coats of two pack undercoat/primer. The exterior of the unit is then finished with a further two coats of high gloss two pack polyurethane. This process guarantees an exceptional high quality lasting finish to the compactor unit.

Strong lightweight aluminium mudguards fitted with white mudflaps finish the unit off.



A full range of accessories and optional equipment is available. A small sample is included below.

- ✓ High pressure, hydraulically driven, water blaster gun ideal for cleaning public conveniences, wheelie bins, graffiti etc.
- ✓ Low pressure wheelie bin washers that operate automatically when the trigger gun is operated.
- ✓ Polypropylene plastic water tanks, with mounting brackets, up to 100 litre capacity.
- ✓ Flashing strobe or revolving amber lights fitted to front and/or rear, with or without branch protectors.
- ✓ Tool boxes of various sizes and materials, subject to available space.
- ✓ Cupboards for stowing detergents and cleaning solvents etc.
- ✓ Racks for stowing shovel, broom, crowbar, rake etc.
- ✓ Mesh surrounds with ladder access to the top of compactor body.
- ✓ Special hydraulic manifolds for operating hydraulic tools for park clean up and pruning programs. The resultant green matter is simply compacted as in normal household refuse.

We can also offer a removable unit using a hook lift system.

