

**OPERATING MANUAL**  
**FOR**  
**UNI-RAM**  
**TRASH COMPACTOR**  
**MODELS**  
**UTC900R**  
**AND**  
**UTC920**

MANUFACTURED BY



MARKHAM, ONTARIO, L3R 9T2, CANADA  
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# Trash and Paper Compactor UTC900R and UTC920

## SAFETY, OPERATING AND SERVICE INSTRUCTIONS

All Uni-Ram products are engineered and manufactured to the highest performance standards and have been subjected to detailed testing before shipment from factory. However, operator error and improper service and maintenance could result in malfunction, damage or accident.

Pay serious attention to all cautions and warnings provided on labels affixed on this equipment as well as in this manual. Before operating this equipment, please carefully read this manual which is a key to the successful and safe operation of this equipment. Keep this manual in good care and in place readily available to operator at all times.

If you have any questions about the operation of this equipment, contact your distributor or the Uni-Ram Product Hot Line:

**USA: 1-800-735-4331    Canada: 1-800-417-9133**

### Salient Features:

- 1     The **UTC900R** is a paper compacting machine designed to compact paper, plastic and other lightweight trash. No other material is to be used for compaction.
- 2     The **UTC920** is designed to compact not only paper trash but carton boxes as well as cans and pails up to 15.5" (39cm) in height.
- 3     The compact design of the machine occupies a small area and is fully mobile supported on four caster wheels.
- 4     Built-in safety features have been incorporated in the design to prevent accidents during operation.
- 5     The machine is shipped as a complete unit, fully assembled and ready for operation.

**Note: It is recommended the customer read the operating instructions carefully before starting to operate the machine.**

### **WARNING**

**There are some cans and pails that UTC920 is not capable of compacting due to their construction and the material. Air pressure, being only source of compacting energy, must be higher than 145 psi (10 Kg/cm<sup>2</sup>) to compact carton boxes, cans and pails of heavy construction.**

## 1. BEFORE USING

1. Carefully inspect the shipping carton for any sign of transport damage. Damage to the carton often indicates possibility of transport damage to the equipment inside.
2. Carefully remove the equipment from the shipping carton.
3. Check your equipment, particularly the adjustable legs at the bottom of the unit, immediately and carefully to ensure that it is not damaged. Report any transport damage to the carrier without delay to initiate claim procedures. Your supplier and Uni-Ram Corporation are not responsible for damage to equipment after it leaves our warehouse.
4. Check the Accessory Kit you have received. If any parts are missing, contact the supplier you purchased the equipment from.
5. This manual is very important document. Carefully read this manual before operating this equipment. Keep this manual close at hand so that it is readily available as required.
6. The unit is supplied with two boxes of Uni-ram twine (part no. TWN-2500, sold separately)
7. **Serial Number Label** is permanently fixed to the back of this equipment. Vital information such as Serial Number, Model Number, Electric Ratings, etc. are clearly marked on the label.
8. Make sure that all markings and labels are not damaged or soiled and are clearly legible.

## 2. SAFETY CAUTIONS AND WARNINGS

**The following safety instructions are the most important part of this manual to ensure safe and trouble free operation of this equipment. Please make sure that any one installing, operating or servicing this equipment fully understands and adheres to all cautions and warnings contained in this section before using this equipment.**

When using the trash and paper compactor, basic safety precautions should always be followed including the following:

- 1 Use the machine for its intended use only and operate the machine between 120-150 psi air pressures.
- 2 Use the brake to lock the wheel of all four-swivel casters..
- 3 Do not overload the machine. Exceeding the recommended compressed bale height may cause damage to the cylinder.

### **CAUTION**

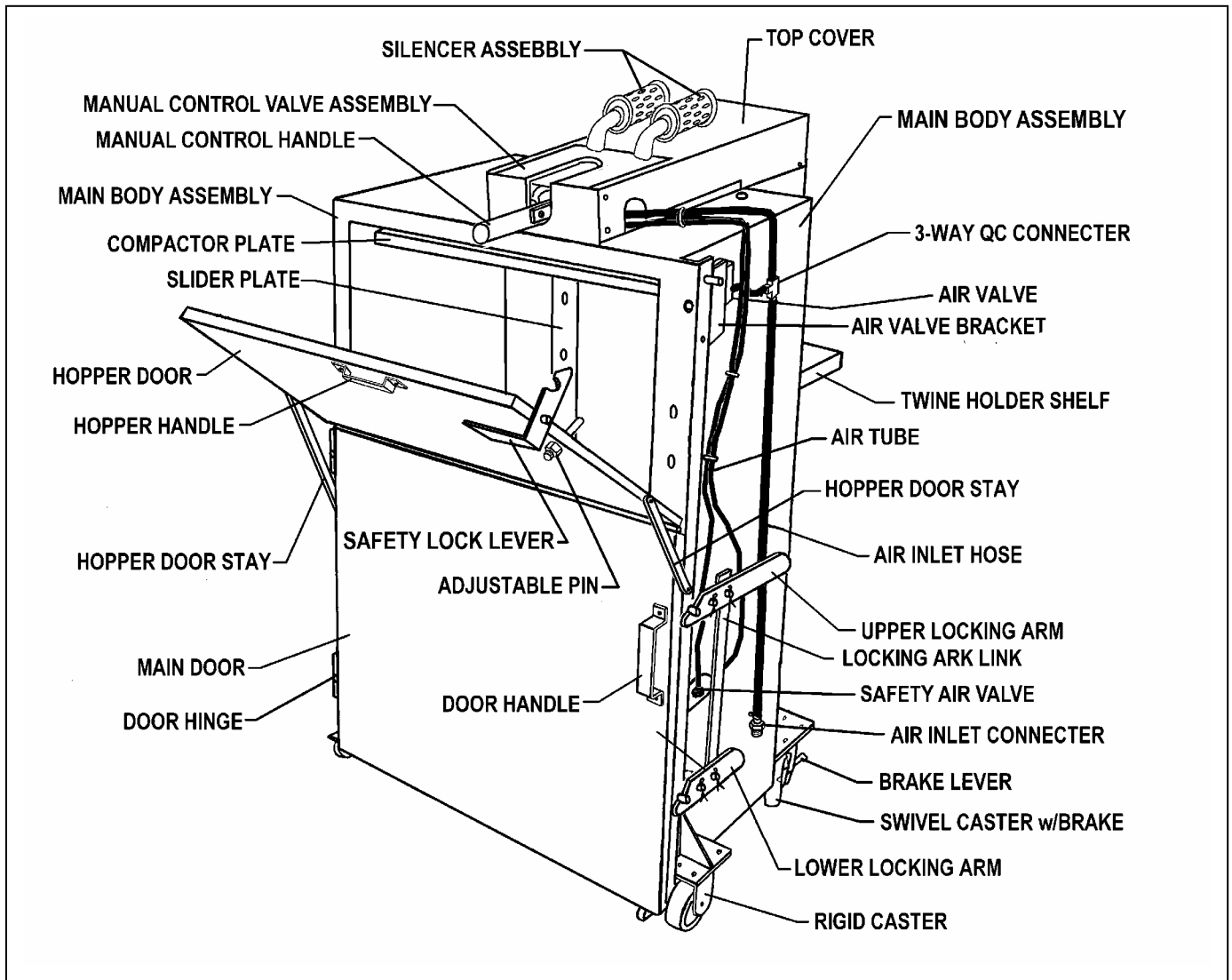
**DO NOT USE THIS EQUIPMENT TO COMPACT ANY ITEM THAT MAY EXPLODE WHEN COMPACTED, MAY PRODUCE TOXIC SUBSTANCE, OR MAY BE HARMFUL TO HUMAN AND/OR ENVIRONMENT.**

### 3. SYSTEM SPECIFICATIONS

Power Source:	Compressed Air
Compacting System:	UTC900: Compacting paper and trash UTC920: Compacting paper, trash and carton Compacting cans and pails up-to 15”(68cm) high
Supply Air Pressure:	150 to 170 psi ( 10.4 to 11.7 Kg/cm <sup>2</sup> )
Air Cylinder:	UTC900R 5.0” ( 127mm ) ID, Double acting. 16” (406mm) Stroke UTC920 6.3” ( 160mm ) ID, Double acting. 16” (406mm) Stroke
Compacting Force:	UTC900R 2,900 lbs ( 1,300 Kgs. ) at 150 psi ( 10.4 Kg/cm <sup>2</sup> ) 3,300 lbs ( 1,500 Kgs. ) at 170 psi ( 11.7 Kg/cm <sup>2</sup> ) UTC920 4,650 lbs ( 2,100 Kgs. ) at 150 psi ( 10.4 Kg/cm <sup>2</sup> ) 5,275 lbs ( 2,400 Kgs. ) at 170 psi ( 11.7 Kg/cm <sup>2</sup> )
Trash Compaction Compartment:	4.75 cubic ft ( 0.13M <sup>3</sup> )
Compacted Trash Bale Size:	40 to 50 lbs ( 18 to 23 Kgs. )
Mobility :	Four Heavy Duty Swivel Casters, two with Brakes
Control System : Both Models:	Manual Control of Dual 3-way valves
Construction Material:	Heavy Gage Steel with durable powder paint in red.
Assembly Requirement:	Completely assembled and ready to use.
Unit Size and Weight:	55” High x 31” Wide x 27” Deep, 295 lbs. 140cm H x 78cm W x 68 cm D, 135 Kgs

## 4. STRUCTURE AND KEY COMPONENTS

The illustration below shows all major component of UTC920. The UTC900R has almost same structure except few components.



## 5. PREPARATION

### Preparation Before Using the Machine:

*Note: All instructions relate to the illustration above.*

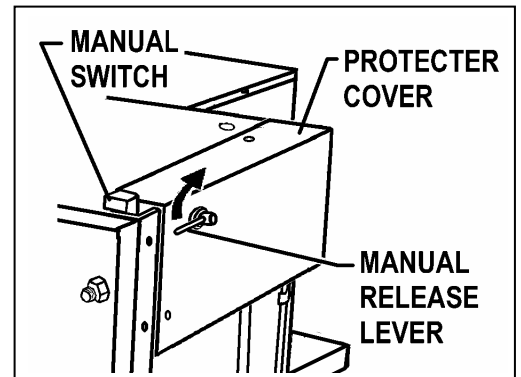
1. Unpack the shipping crate and move the machine to shop floor.
2. Unlock brakes on two rear wheels by pulling the Brake Lever upward and move the unit to a convenient place in your area of work.
3. Lock two Rear Swivel Caster by pushing the Brake Lever down with your foot. This will prevent the machine from shifting during operation.
4. Connect your air supply of 145 to 170psi (10.0 to 11.7 Kg/cm<sup>2</sup>) to the Air Inlet Connector

(1/4" NPT male) and turn the air on. The Compactor Plate will move up and release the Safety Lock Hook so that the Hopper Door can be opened.

- 5 Install two boxes of Uni-ram Twine (Part No. TWN-2500, supplied and also sold separately) or equivalent of twine to the Twine Holder Shelf on the rear side of the machine.
- 6 Open the Hopper Door fully by pulling the Hopper Door Handle toward you.
- 7 Lift the Upper Lock Handle upward to unlock the Main Door and open the Door.
- 8 Insert the twine through holes located at the top rear end or at the rear of the unit. Pull the twine down on the inside at the back of the unit and out at the Main Door at the bottom. Extend twine out by about three feet.
- 9 Shut the Main Door, which locks itself when pushed against the Main Body.

**Your compactor is now ready for loading and compacting operation.**

**Note: When no air is supplied to the unit, the Hopper Door is locked in closed position. The Hopper Door may be unlocked by turning the Manual Release Lever counter-clockwise.**



## **6. COMPACTING PAPER AND TRASH**

### **6.1 COMPACTING PAPER AND TRASH**

- 1 Open the Hopper Door fully and make sure the Compactor Plate is resting at the top position.
- 2 Throw in paper and other trash to be compacted through the hopper opening.

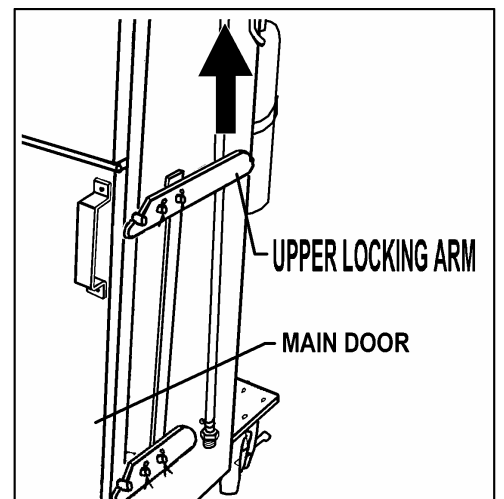
Close the Hopper Door and hold until the cycle has been completed. The compacting cycle may take up to 30 seconds depending on the air pressure, the amount of trash loaded, etc.

- 3 Repeat steps one through three above until the height of the compacted bale is close to or slightly below the bottom end of the hopper opening or approximately 20 inches ( 50cm ) in compressed height.

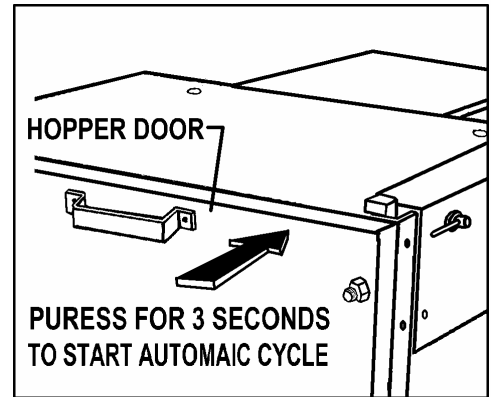
**The compacted bale is now ready for removal.**

### **6.2 UNLOADING COMPACTED TRASH:**

- 1 Open the Hopper Door and lift the Upper Locking Arm which unlock the Main Door. Slowly open the Main Door.
- 2 Pull out the upper end of twine toward front as shown in Figure below.
- 3 Cut twine to the required length to tie the compressed bale bundle firmly.



- 4 Press the Manual Switch located at the top right end of the unit, and the Compactor Plate will come down to hold the compressed bale in the compacted position.
- 5 Pull out both ends of twine and tie as tightly as possible. Tie both twines to ensure that the bale is tightly buddle.
- 6 Lift the Manual Switch and wait until the Compactor Plate goes up releasing the compressed bale. This may take 10 to 20 seconds.
- 7 Remove the compacted bale from the unit.
- 8 Close the Main Door and the Hopper Door.

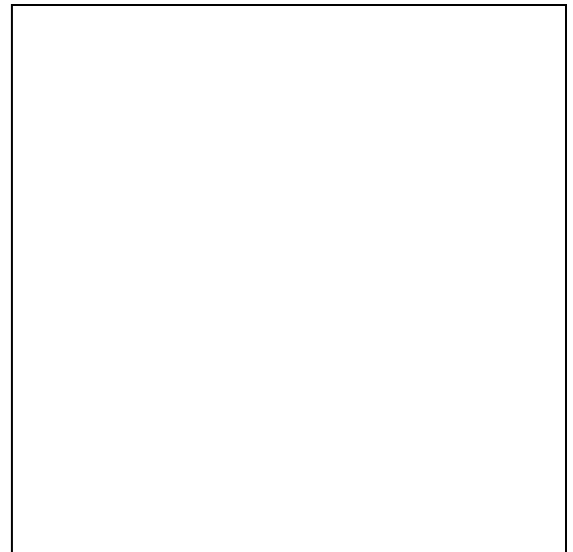


**This completes the unloading and the unit is ready for use..**

## 7. COMPACTING CANS AND PAILS

### 7.1 COMPACTING CAN AND PAIL

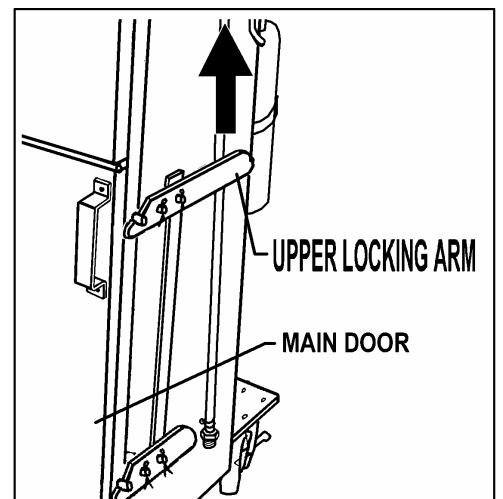
- 4 Open the Hopper Door fully and make sure the Compactor Plate is resting at the top position.
- 5 Throw in paper and other trash to be compacted through the hopper opening.
- 6 Close the Hopper Door and hold until the cycle has been completed. The compacting cycle may take up to 30 seconds depending on the air pressure, the amount of trash loaded, etc.
- 7 Repeat steps one through three above until the height of the compacted bale is close to or slightly below the bottom end of the hopper opening or approximately 20 inches ( 50cm ) in compressed height.



**The compacted bale is now ready for removal.**

### 7.2 UNLOADING OPERATION:

- 9 Open the Hopper Door and lift the Upper Locking Arm which unlock the Main Door. Slowly open the Main Door.
- 10 Pull out the upper end of twine toward front as shown in Figure below.
- 11 Cut twine to the required length to tie the compressed bale bundle firmly.



- 12 Press the Manual Switch located at the top right end of the unit, and the Compactor Plate will come down to hold the compressed bale in the compacted position.
- 13 Pull out both ends of twine and tie as tightly as possible. Tie both twines to ensure that the bale is tightly buddled.
- 14 Lift the Manual Switch and wait until the Compactor Plate goes up releasing the compressed bale. This may take 10 to 20 seconds.
- 15 Remove the compacted bale from the unit.
- 16 Close the Main Door and the Hopper Door.

This completes the unloading and the unit is ready for use..

## **8. MAINTENANCE**

- 1 All moving parts and the friction surfaces such as door hinges, door lock mechanism, loading hopper hinge, etc. must be lubricated as required to prevent excessive wear and tear as well as unpleasant noise.
- 2 Always use clean dry compressed air for longer life and smooth operation of the air cylinder.

**Contact our service department for any questions or service requirements.**

**UTC900R AND UTC920 Paper Compactor Parts List:**

<b><u>Item No.</u></b>	<b><u>Description</u></b>	<b><u>Part No.</u></b>	<b><u>Qty/unit</u></b>
1	Main body assembly	70-8100	1
2	Compactor plate assembly	70-8040	1
3	Door frame assembly	70-8200	1
4	Hopper handle	110-313	1
4a	Handle screws	70-8119	2
5	Upper Locking Arm	70-8120	1
5a	Locking plate	70-8121	1
5b	Locking pin	70-8122	1
5c	Screw, locking plate	70-8123	1
5d	Washer, locking arm	70-8124	3
5e	Nut, locking arm	70-8125	1
6	Door handle	110-313	1
6a	Screws, door handle	70-8119	2
7	Alligator plate	70-8019	1
7a	Bolts, alligator pl, ¼" x 0.5"L	70-8021	24
7b	Lock nuts, alligator pl, ¼"	70-8023	24
7c	Alligator extension pl	70-8026	2
8	Slider plate	70-8046	1
9	Double acting slider	70-301	1
9a	Bolts, cylinder plate connector, ½" – 20 x 1"L	70-8131	4
10	Bolt, cylinder mounting, ¾" – 16 x 1.5"L	70-8133	1
10a	Plain washer	70-8135	1
11	Rigid castor, 4" dia	70-8061	2
11a	Castor bolts	70-8057	16
11b	Castor lock nuts	70-8059	16
12	Hose connector, air supply	70-8079	1
13	Braided hose, air supply	70-8081	1
14	Swivel castor, 4" dia	70-8051	4
15	Door lock, bottom pl	70-8035	1
15a	Pin washer	70-8036	4
15b	Cotter pin	70-8037	6
15c	Pin	70-8039	2
16	Connecting rod	70-8034	1
17	2-way switch + connector	70-8413	1 set
17a	Brass nut for switches	70-8415	4
18	Pvc tube, 1/8" dia	70-8077	1
19	Door lock top pl	70-8033	1
20	4-way switch + connector	70-8411	1 set
21	Pvc tube, 1/8" dia	70-8075	2
22	Cylinder cover	70-8032	1
22a	Cover screws	70-8038	4