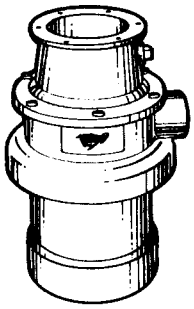
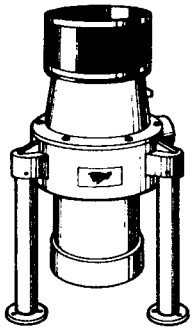
www.redgoat.com

RED GOAT DISPOSERS

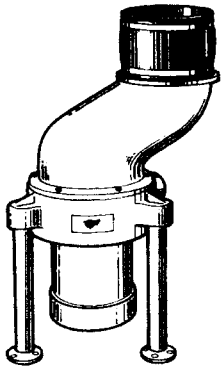
Installation • Operation • Maintenance



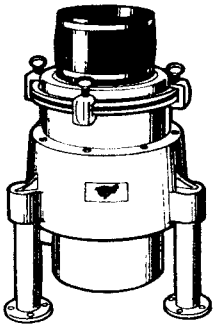
“H” Series



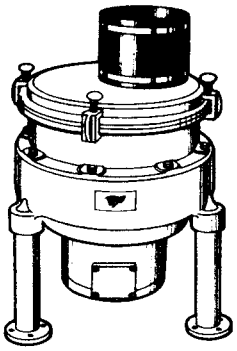
“A” Series



“A” Offset



“B” Series



“C” Series

Red Goat Disposers
165 Independence Court • Lancaster, PA 17601
800.237.6628 • 717.397.5100 • FAX 717.397.1997
www.redgoat.com

ORDERING INSTRUCTIONS

Contact the Factory-authorized Parts Distributor for all parts orders or contact us directly for the name and phone number of the parts distributor nearest you:

Call Toll Free: 800-237-6628
FAX: 717-397-1997

SAFETY

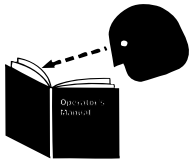
RECOGNIZE SAFETY INFORMATION. When you see this symbol on your machine or in this manual, be alert to the potential for personal injury.

UNDERSTAND SIGNAL WORDS. DANGER, WARNING and CAUTION appear with the safety-alert symbol in this manual and on safety labels on the machine to identify the level of hazard seriousness.

DANGER indicates a hazard that WILL result in severe personal injury or death.

WARNING indicates a hazard or unsafe practice which COULD result in severe personal injury or death.

CAUTION indicates a hazard or unsafe practice which COULD result in minor personal injury or equipment damage.



READ ALL INSTRUCTIONS
Read this owner's manual before using the machine. Failure to follow the instructions provided could result in personal injury or equipment damage.

KEEP OUT OF REACH OF CHILDREN
This disposer is intended for commercial use only.

DO NOT PUT HANDS OR ANY IMPLEMENT IN THE DISPOSER WHILE IN OPERATION.

NEVER FEED WASTE BY HAND PAST VINYL SILVER TRAP SCRAPPING RING.

DO NOT OPERATE IF DAMAGED.

Do not install or operate this disposer if the disposer has been dropped or damaged in any manner. Contact the nearest factory-authorized service center for examination, repair or adjustment. (Refer to the service center list included in the Owner's Information Packet.)

DO NOT LEAVE DISPOSER UNATTENDED.

SET THE POWER SWITCH TO OFF BEFORE CLEARING JAMS OR REMOVING OBJECTS FROM DISPOSER.

When the disposer is wired to a Manual Control or Model RAC1 Control Center, SHUT OFF the branch circuit main switch or disconnect.

When disposer is wired to a RAC2 Control Panel, TURN OFF emergency disconnect.

Use long-handled tongs or pliers to remove objects.

TO REDUCE THE RISK OF INJURY BY MATERIALS THAT MAY BE EXPELLED BY DISPOSER, DO NOT PUT THE FOLLOWING INTO DISPOSER: drain cleaner; glass, china or plastic; large, whole bones; metal (bottle cas, tin cans, aluminum foil, etc.); whole cornhusks.

ALWAYS KEEP VINYL SILVER TRAP SCRAPPING RING OR SINK STOPPER IN PLACE ON SERIES "H-RSA", EVEN WHEN NOT IN USE.

This reduces the risk of objects falling into the disposer.

WHEN CLEANING KITCHEN AND DISPOSER AREA, ONLY DAMP WIPE OUTSIDE OF DISPOSER AND CONTROLS. DO NOT AT ANY TIME HOSE DOWN THE EXTERIOR SURF ACES OF THE DISPOSER AND CONTROLS.

SAVE THESE INSTRUCTIONS.

Keep this booklet in a convenient location for future reference.

GENERAL INSTALLATION

FABRICATING

1. Consult installation and connection data and installation diagrams on following pages for regular cone or regular sink attachment dishtable cutout sizes.
2. For cone attachment, position cone so water swirl inlet fitting is nearest to operator .
3. Weld the total circumference of cone or sink attachment to prevent leakage.
4. Smooth grind and polish to match and blend weld seams.

NOTE: DO NOT PLACE CONTROL MOUNTING BRACKETS IN DIRECT WATER SPLASH AREAS.

PLUMBING

1. Consult installation and connection data and installation diagrams on following pages for mounting, hookups and pipe sizes.
2. “H” Series is mounted by suspending from dishtable.
3. “A”, “B” and “C” Series use a floor leg support system with a neoprene connecting sleeve and two (2) stainless steel clamps. Supplied sleeve (8” length) should be cut to required length for connection of disposer to dishtable.
4. Slide in, or position, disposer to connect to waste line, avoiding as many bends, elbows and tees as possible.
5. Flexible drain connection should be installed as follows:
   A. Slip coupling over disposer outlet, then onto drain pipe.
   B. Using a 5⁄16” nut driver, tighten to a torque of 60 in-lbs.
6. Perform power-rotor reaming of waste line whether connection is made to a new or old waste line. New lines often contain foreign items left in the lines accidentally during construction.
7. Blow new water feed lines out before connections are made. Dirt, solder, or other foreign matter can lodge itself in the flow controls, solenoid valve and vacuum breaker , causing malfunction.
8. Install solenoid valve. Check that inlet and outlet ports are in proper direction.
9. Check that disposer and dishtable opening are in line, level and true. This is visible when neoprene sleeve is not kinked or partially collapsed. If level and in line adjustment is required, turn feet on bottom of legs.
10. Secure disposer to floor using the holes provided in the feet.

ELECTRICAL

NOTE: FOLLOW GUIDELINES SET FORTH BY NEC STANDARD AND LOCAL CODES.

1. Consult installation and connection data and diagrams on following pages for control placement and motor wiring.

NOTE: DO NOT PLACE CONTROL IN DIRECT WATER SPLASH AREAS.

2. Follow supplied wiring schematics for all controls, solenoid valves and pre-wired custom control centers.
3. Size and fuse disposer branch circuit or use circuit breakers as required by motor nameplate rating.
4. Check that motor voltage wiring matches incoming voltage.

NOTE: ALL CONDUIT AND FITTINGS SHALL BE OF THE NEMA 4 WATERTIGHT TYPE.

5. All “H” and “A” disposers have thermal protection of the manual reset type, in motor . Check that reset button is not jammed.
6. All “B” and “C” disposers must have thermal protection (heaters) in control. Check that heaters are sized properly to prevent either motor burnout or nuisance tripping.
7. Check that all connections are tight, secure and well-grounded.

NOTE: Disposers are designed to operate in both a clockwise and counter-clockwise direction. Direction of rotation does not have to be considered when wiring motor .

GROUNDING

Connect disposer to a grounded metal permanent wiring system or run a disposer grounding conductor with the circuit conductors and connect it to the disposer grounding terminal or lead on the disposer .

“H” SERIES - Installation and Connection

NOTE: PLUMBING AND ELECTRICAL CONNECTIONS SHALL BE MADE IN COMPLIANCE WITH APPLICABLE LOCAL CONSTRUCTION CODES.

PLUMBING

Inlet: Cold water supply to disposer shall be ½" service line with a minimum of 20 lbs. flow pressure, piped as close to disposer as possible. All disposer and control connections shall be ½" pipe size.

Sewer Outlet: 1½" waste line should have trap with conveniently located clean out. *Do not connect through a grease trap.* Avoid bends, elbows, tees, etc., to reduce the possibility of plumbing stoppage. A globe valve, used for metering flow, must be installed between solenoid valve and cone or sink. Water swirl inlet valves should be located nearest operator.

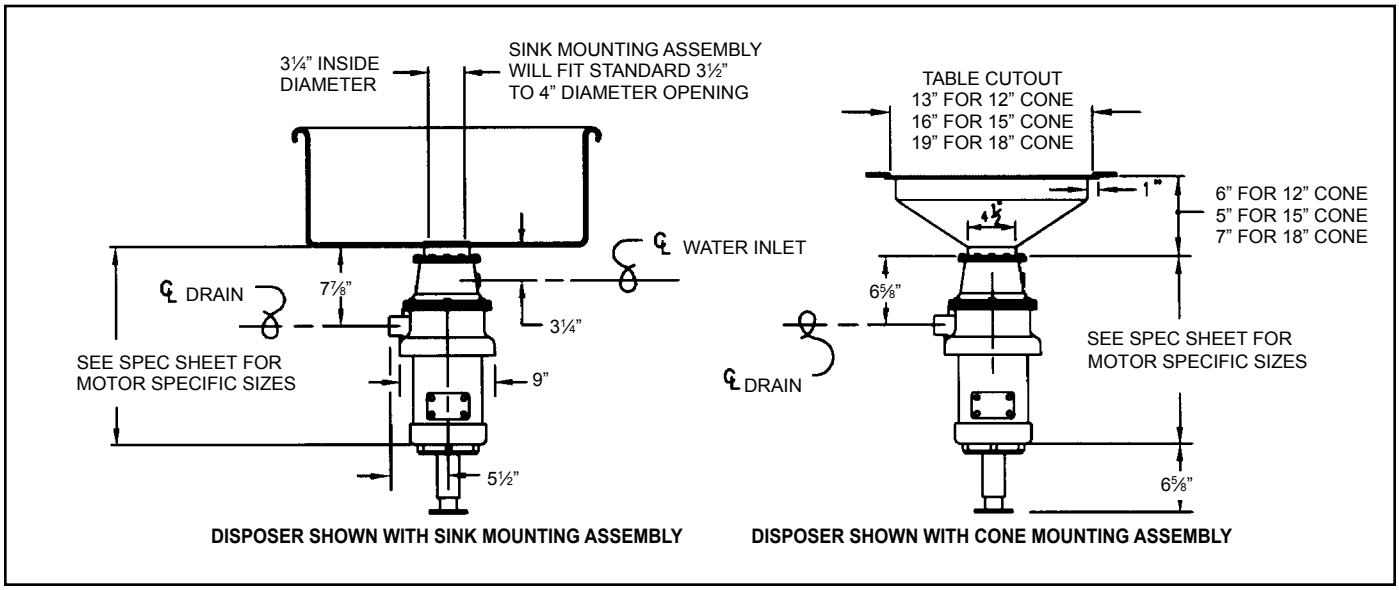
See Typical Installation Diagram.

ELECTRICAL

Follow guidelines set forth by NEC standards. Disposer branch circuit shall be sized and fused (circuit breakers) as required by motor. The disposer must be connected to a grounded, metal, permanent wiring system; or a disposer-grounding conductor must be run with the circuit conductors and connected to the disposer-grounding terminal or lead on disposer. All connections, junction boxes and conduits must be watertight (NEMA 4).

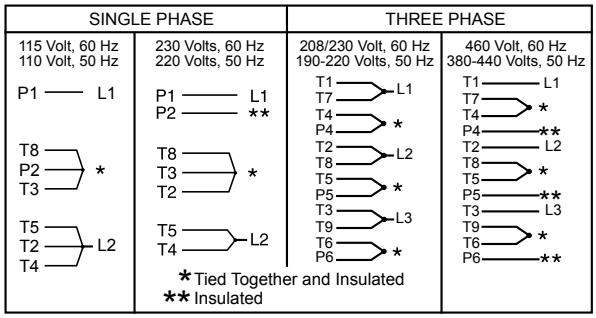
TESTING See Start-up and Run Section.

INSTALLATION DIAGRAM



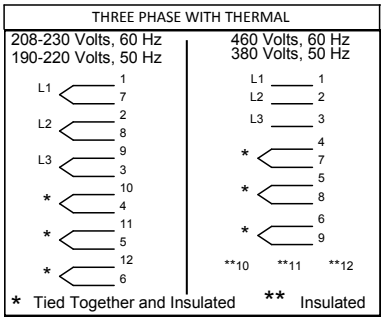
MOTOR WIRING DIAGRAMS

For use with Leeson motors



6 = Six 9 = Nine

For use with Baldor motors



VOLTAGE-AMPERAGE TABLE

HP	SINGLE PHASE Volts	SINGLE PHASE Amps*	THREE PHASE Volts	THREE PHASE Amps*
3/4	115	5.4	208	2.8
	230	10.8	230	2.8
			460	1.4
1	115	12.8	208	3.6
	230	6.4	230	3.6
			460	1.8
1 1/2	115	17.2	208	4.9
	230	8.6	230	4.4
			460	2.2
2	115	20.0	208	6.9
	230	10.0	230	6.2
			460	3.1

*Ratings are for 60 Hz operation

“A” SERIES - Installation and Connection

NOTE: PLUMBING AND ELECTRICAL CONNECTIONS SHALL BE MADE IN COMPLIANCE WITH APPLICABLE LOCAL CONSTRUCTION CODES.

PLUMBING

Inlet: Cold water supply to disposer shall be ½" service line with a minimum of 20 lbs. flow pressure, piped as close to disposer as possible. All disposer and control connections shall be ½" pipe size.

Sewer Outlet: 2" waste line should have trap with conveniently located clean out. *Do not connect through a grease trap.* Avoid bends, elbows, tees, etc., to reduce the possibility of plumbing stoppage. A globe valve, used for metering flow, must be installed between solenoid valve and cone or sink. Water swirl inlet valves should be located nearest operator.

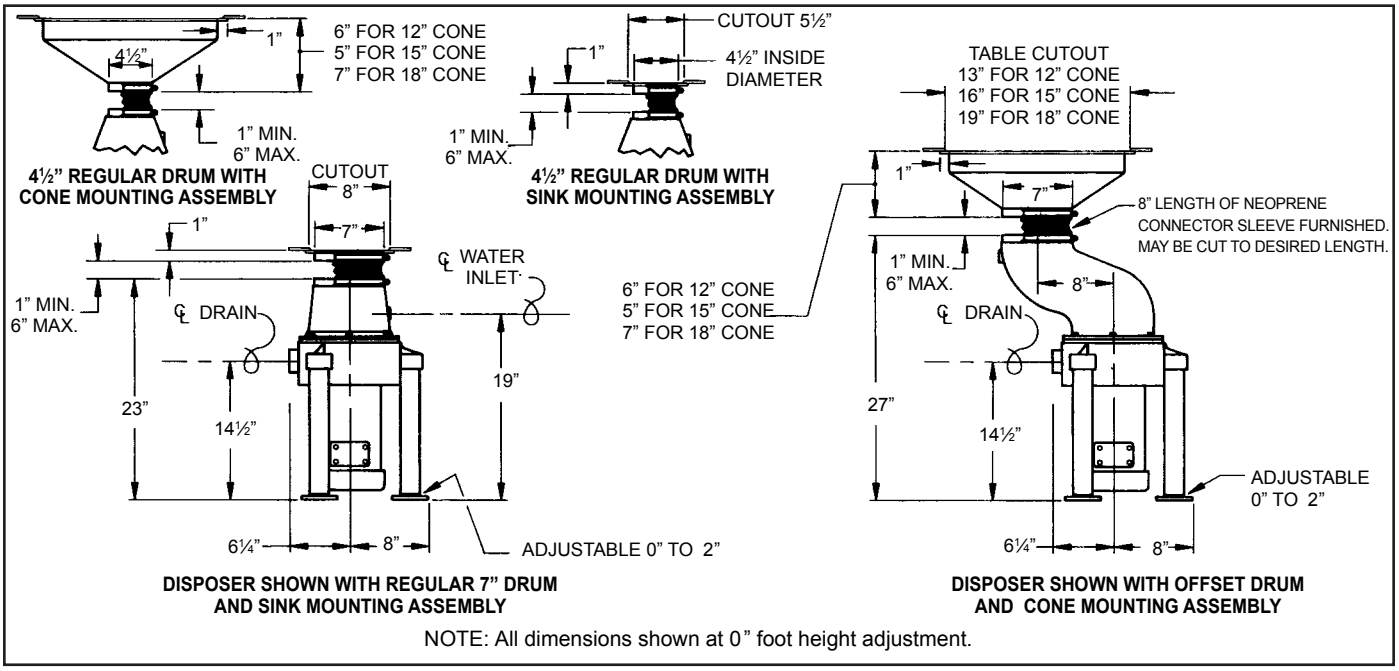
See Typical Installation Diagram.

ELECTRICAL

Follow guidelines set forth by NEC standards. Disposer branch circuit shall be sized and fused (circuit breakers) as required by motor. The disposer must be connected to a grounded, metal, permanent wiring system; or a disposer-grounding conductor must be run with the circuit conductors and connected to the disposer-grounding terminal or lead on disposer. All connections, junction boxes and conduits must be watertight (NEMA 4).

TESTING See Start-up and Run Section.

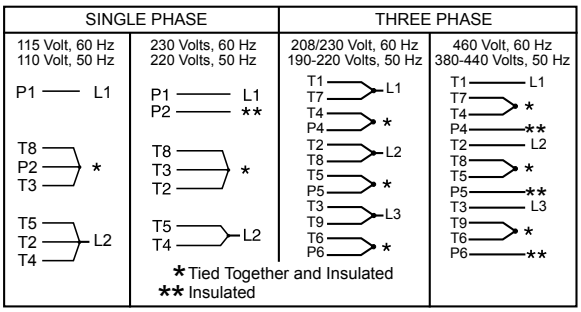
INSTALLATION DIAGRAM



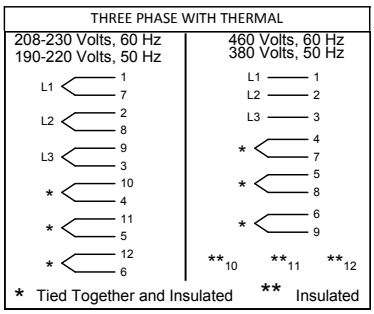
NOTE: All dimensions shown at 0” foot height adjustment.

MOTOR WIRING DIAGRAMS

For use with Leeson motors



For use with Baldor motors



6 = Six 9 = Nine

VOLTAGE-AMPERAGE TABLE

HP	SINGLE PHASE		THREE PHASE	
	Volts	Amps*	Volts	Amps*
1 1/2	115	17.2	208	4.9
	230	8.6	230	4.4
			460	2.2
2	115	18.4	208	6.9
	230	9.2	230	6.2
			460	3.1
3	N/A		208	9.7
			230	8.8
			460	4.4
5	N/A		208	14.8
			230	13.4
			460	6.7

*Ratings are for 60 Hz operation

“B” SERIES - Installation and Connection

NOTE: PLUMBING AND ELECTRICAL CONNECTIONS SHALL BE MADE IN COMPLIANCE WITH APPLICABLE LOCAL CONSTRUCTION CODES.

PLUMBING

Inlet: Cold water supply to disposer shall be ½" service line with a minimum of 20 lbs. flow pressure, piped as close to disposer as possible. All disposer and control connections shall be ½" pipe size.

Sewer Outlet: 2" waste line should have trap with conveniently located clean out. *Do not connect through a grease trap.* Avoid bends, elbows, tees, etc., to reduce the possibility of plumbing stoppage. A globe valve, used for metering flow, must be installed between solenoid valve and cone or sink. Water swirl inlet valves should be located nearest operator.

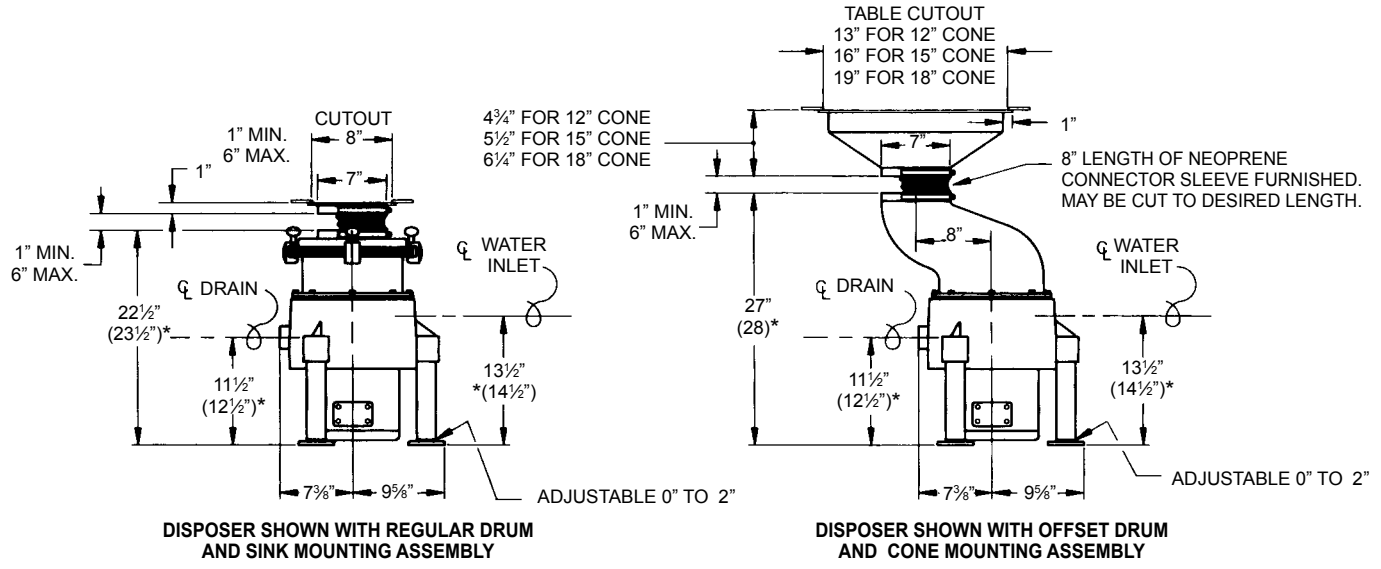
See Typical Installation Diagram.

ELECTRICAL

Follow guidelines set forth by NEC standards. Disposer branch circuit shall be sized and fused (circuit breakers) as required by motor. The disposer must be connected to a grounded, metal, permanent wiring system; or a disposer-grounding conductor must be run with the circuit conductors and connected to the disposer-grounding terminal or lead on disposer. All connections, junction boxes and conduits must be watertight (NEMA 4).

TESTING See Start-up and Run Section.

INSTALLATION DIAGRAM

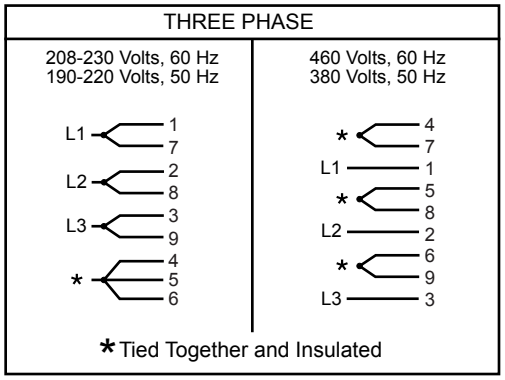


DISPOSER SHOWN WITH REGULAR DRUM AND SINK MOUNTING ASSEMBLY

DISPOSER SHOWN WITH OFFSET DRUM AND CONE MOUNTING ASSEMBLY

NOTE: All dimensions shown at 0” foot height adjustment.

MOTOR WIRING DIAGRAM



VOLTAGE-AMPERAGE TABLE

HP	THREE PHASE	
	Volts	Amps*
3	208	9.5
	230	9.0
	460	4.5
5	208	15.2
	230	13.6
	460	6.8
7 1/2	208	23
	230	22
	460	11
10	208	33
	230	30
	460	15

“C” SERIES - Installation and Connection

NOTE: PLUMBING AND ELECTRICAL CONNECTIONS SHALL BE MADE IN COMPLIANCE WITH APPLICABLE LOCAL CONSTRUCTION CODES.

PLUMBING

Inlet: Cold water supply to disposer shall be ½" service line with a minimum of 20 lbs. flow pressure, piped as close to disposer as possible. All disposer and control connections shall be ½" pipe size.

Sewer Outlet: 3" waste line should have trap with conveniently located clean out. *Do not connect through a grease trap.* Avoid bends, elbows, tees, etc., to reduce the possibility of plumbing stoppage. A globe valve, used for metering flow, must be installed between solenoid valve and cone or sink. Water swirl inlet valves should be located nearest operator.

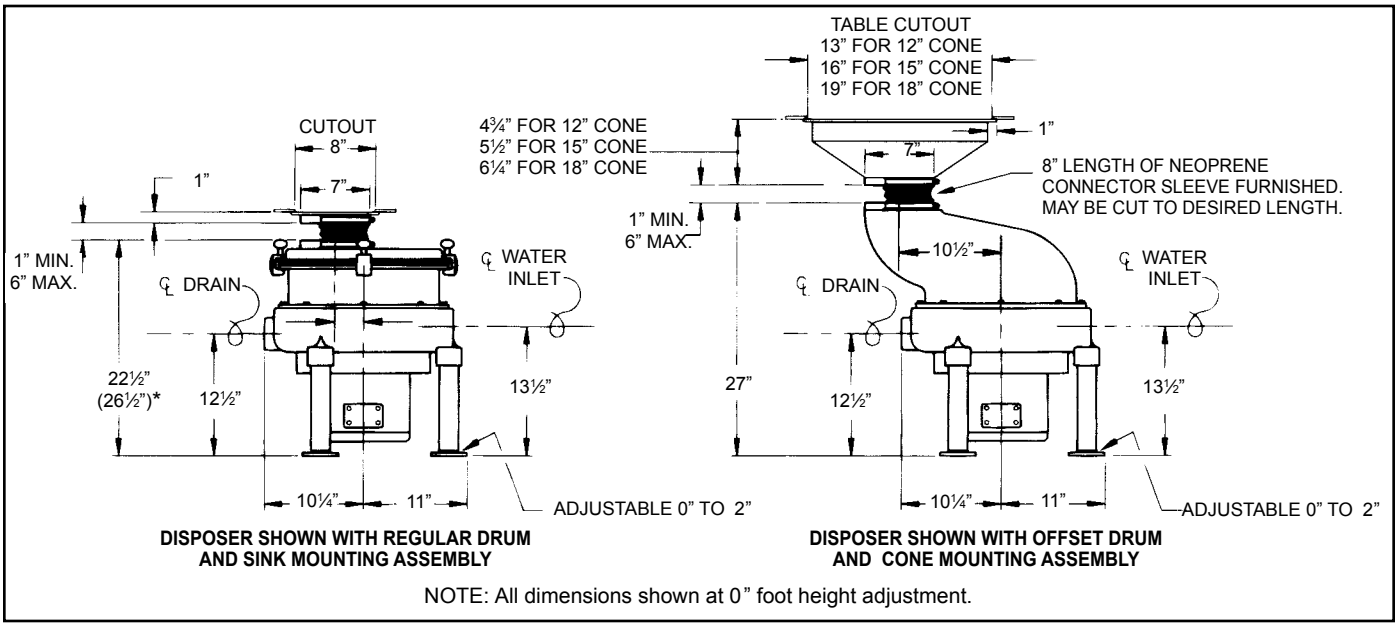
See Typical Installation Diagram.

ELECTRICAL

Follow guidelines set forth by NEC standards. Disposer branch circuit shall be sized and fused (circuit breakers) as required by motor. The disposer must be connected to a grounded, metal, permanent wiring system; or a disposer-grounding conductor must be run with the circuit conductors and connected to the disposer-grounding terminal or lead on disposer. All connections, junction boxes and conduits must be watertight (NEMA 4).

TESTING See Start-up and Run Section.

INSTALLATION DIAGRAM

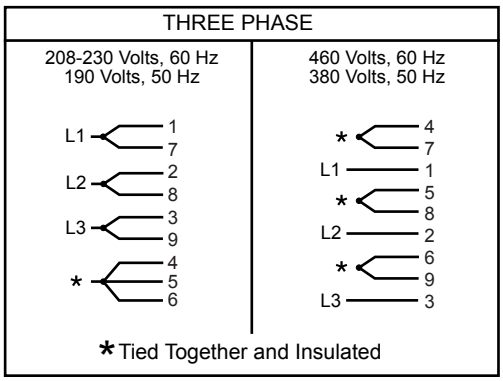


DISPOSER SHOWN WITH REGULAR DRUM AND SINK MOUNTING ASSEMBLY

DISPOSER SHOWN WITH OFFSET DRUM AND CONE MOUNTING ASSEMBLY

NOTE: All dimensions shown at 0” foot height adjustment.

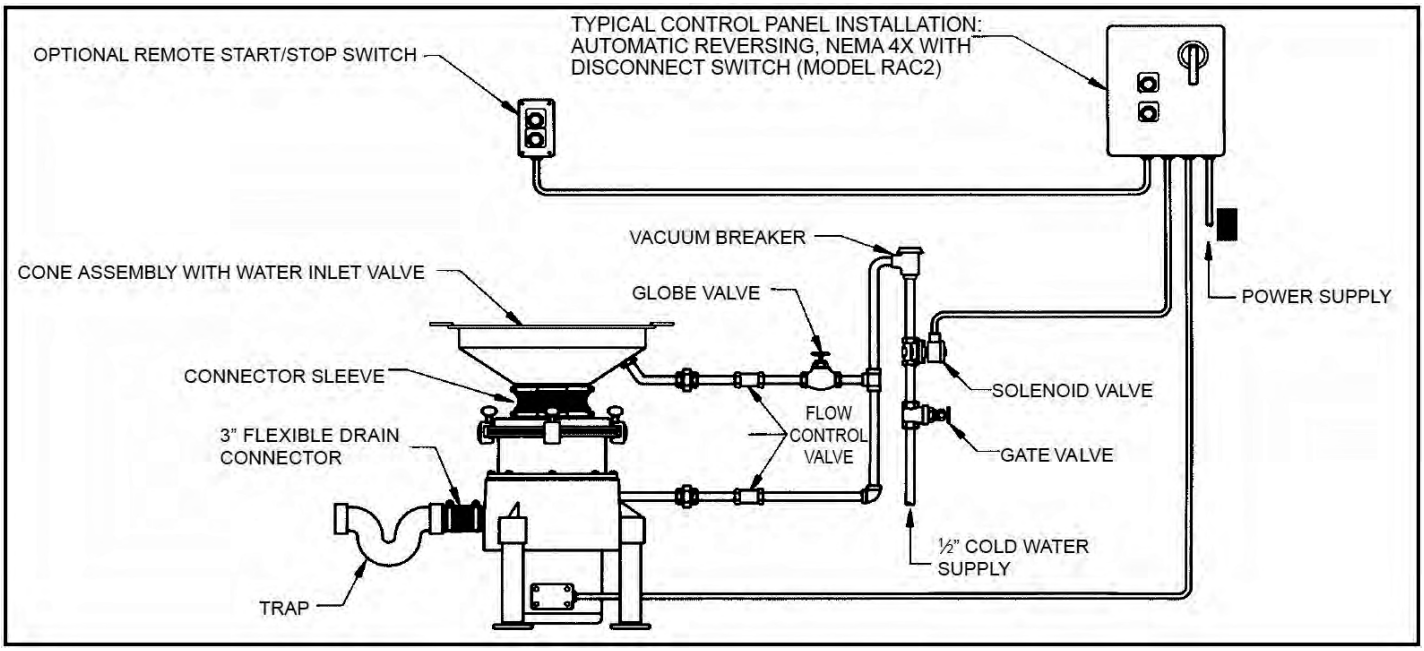
MOTOR WIRING DIAGRAM



VOLTAGE-AMPERAGE TABLE

HP	THREE PHASE	
	Volts	Amps*
3	208	9.5
	230	9.0
	460	4.5
5	208	15.2
	230	13.6
	460	6.8
7 1/2	208	23
	230	22
	460	11
10	208	33
	230	30
	460	15

TYPICAL INSTALLATION



START-UP AND RUN CHECK

1. Check that vinyl silver trap scrapping ring is fully seated.
2. Check that all connections are secure.
3. Check that disposer is secured to floor.
4. Open terminal wiring box on motor; pull out and separate motor leads to permit ampere reading on each leg. Leave all connections and insulation in place.
5. Clamp ammeter over input feed lead.
6. Turn on disposer.
8. Check for leaks, water flow, excessive noise or vibration, and regulate water flow if required.
7. Take ampere readings on each leg and verify against factory-checked motor test results.

NOTE: Before checking rotation reversal, be sure disposer is empty. Wear safety glasses or goggles. BE SURE POWER SWITCH IS OFF SHOULD ADJUSTMENTS ON DISPOSER BE NECESSARY. NEVER REACH INTO DISPOSER WHEN DISPOSER IS RUNNING.

9. If disposer is connected to a reversing control, whether automatic or manual, check reversing.

10. If disposer is connected to a manual reversing drum switch or contactor, START motor in forward position and note rotation through top opening as motor coasts to a stop. RESTART motor in reverse position. Verify that disposer restarted in opposite direction.

11. If disposer is connected to a control center with automatic reversing (Model RAC1/ RAC2), verify if disposer reverses.

NOTE: Motor must be stopped or 30 seconds must have elapsed before pushing START; otherwise, motor will not reverse. This is a safety cycle feature. Should START button be pressed prior to elapsed time, motor will run in same direction. Direction Test: A.) Press Start- Disposer Run. B.) Press Stop (note coast down direction. C.) Wait 30 sec. after motor stops. D.) Press start- Disposer should run is opposite direction.

12. If disposer is wired with a (RAC1/ RAC2), There are 3 trim-pots on the Control Module inside the controller that adjust operation. (To enable or disable clean out cycles) For more information about this Eco-Mizer: Electricity and Water Saver please see the Instructions For Adjustable Timer With Auto Shut Down spec sheet in the control box. This timer is used to control the shut down sequence of industrial garbage disposal units. When either the Stop input is activated or the Auto Shut Down timer times out, the two stage shut down sequence begins. The first stage is Clean Out, where *both* the motor and water flow continue for up to 2 minutes. The second stage is Positive Flush, where the motor is stopped, but the water flow is continued, also for up to 2 minutes. The disposal may be restarted at any time, but if the motor has been off for more than 30 seconds, its direction will be reversed.

13. In all shutdown phases, be sure water is being shut off by the closing of the solenoid valve.
14. Reinsert all wiring, close all covers and shut all doors that were open during run check.

OPERATION

1. Check that disposer is empty and clean from previous use.
2. Check that vinyl silver trap scrapping ring is in place and properly seated over throat opening in cone or sink.
3. Turn disposer ON. Note that water is flowing into top cone or into sink via the water swirl fitting.

WARNING: Never feed waste by hand past vinyl silver trap ring or reach inside running disposer .

NOTE: Do not feed metal, wood, cloth, rubber, corn husks, plastics, plastic sheets of bags, styrofoam, or other foreign matter. A periodic clean out of such material from the disposer is advisable.

4. Proceed with dish cleanup, feeding waste gradually. DO NOT pack waste into disposer waste chamber.
5. After each use, if disposer is wired with manual controls, allow disposer to run (motor and water) for at least 2 minutes. This clean-out cycle will empty the disposer and flush the waste line, preventing potential drain stoppage.
6. Should motor stop during use cycle, SHUT OFF POWER IMMEDIA TELY, via ON-OFF switch. If disposer is connected to Model RAC2 Control Center, shut OFF power at black emergency disconnect handle; on manual switches, turn branch circuit disconnect to OFF.
   A. Remove vinyl silver saver scrapping ring and check waste chamber through top opening and remove foreign objects that may have caused stoppage.
   B. Check to see if rotor turns freely.
   C. If rotor turns freely, replace vinyl silver saver scrapping ring and turn disposer ON.

   If disposer fails to start and run, an obstruction may still be binding the rotor .
   A. Turn disposer OFF. Using a wooden bar or wooden handle, pry and push against the impact bars on the rotor to break it free; then remove object.
   B. Turn disposer ON and if motor fails to start, the thermal protector, either in the motor (“H” and “A” Series) or in the controls, may have tripped.
   C. Push reset button on thermal protector.

   If disposer still fails to start, check for blown fuses or tripped circuit breakers in the branch circuit (especially on three-phase installations) to be sure that all power legs are feeding motor .

TROUBLESHOOTING

DISPOSER DOES NOT START WHEN NEW

Manual reset button of thermal protector is tripped. On “H” and “A” Series, reset button is on motor; on “B” and “C” Series, reset button is in control box.

Fuses or circuit breaker on branch circuit feed line have tripped.

Electrical connectionf on motor, in panel or feed lines not tight.

Headers have not been installed in starter, if starter is used in circuit.

DISPOSER DOES NOT START AFTER STANDING UNUSED FOR A PERIOD OF TIME

Clean out cycle too short. When disposer is stopped too early, the remaining water slowly drains out carrying the shattered waste particles into the very close clearance opening between sizing ring and rotor, where it hardens and solidifies, acting as a binding agent between the two parts. The motor at start-up is unable to overcome the dried blockage (usually on low horsepower disposers).

DISPOSER STALLS WHEN IN OPERATION

Large quantities of foreign material (rags, wood pieces, rubber bands, strings, pieces from floor mops, cellophane and polyethylene) which will not disintegrate, cause the motor to overheat and the thermal protector to trip.

Not enough water volume flow (GPM) causing thermal protector to trip.

Thermal protectors (heaters) sized too small, causing nuisance tripping.

TROUBLESHOOTING (continued)

DISPOSER OPERATES BUT DISINTEGRATION AND DISCHARGE IS SLOW

Not enough water volume flow (GPM).
Worn shattering mechanism (impact bars, sizing ring, rotor).
Large amounts of foreign material in waste chamber.

DISPOSER MOVES WHEN STARTED

Large amounts of unshattered waste in chamber.
Rotor unbalanced due to loose impact bar.
Disposer not anchored to floor.

DRAIN LINE CLOGS

Worn shattering mechanism (impact bars, sizing ring, rotor) permitting large waste particles to flow through.
Large amount of paper and non-food particles being fed into disposer.
Not enough water volume flow (GPM).

DISPOSER DOES NOT TURN OFF (AFTER CLEAN OUT CYCLE, IF WIRED WITH RAC2)

Stop button in switch or control defective.
Timer in Model RAC2 control center defective.

DISPOSER DOES NOT REVERSE

Contacts in manual reversing switch burned.
Contactor in auto reversing control center defective.
Reversing circuit in auto reversing control center defective.
Time lapse safety circuit in auto reversing control center defective.
Motor not wired as indicated in wiring diagram.

SEVERE VIBRATION DURING OPERATION

Loose or broken impact bars.
Unshattered waste lodged in rotor.
Severe rotor damage from metal objects being fed into disposer.

MOTOR RUNS BUT NO WATER FLOW

Solenoid valve improperly wired.
Defective solenoid valve coil.
No water flow in main feed line.

MOTOR NUT TURNING AT PROPER RPM

Low voltage on incoming feed line.
On three-phase hookups, no voltage on one feeder line (leg).
Motor not wired as indicated in wiring diagram (low to high, high to low voltsO.

LOUD NOISE FROM MOTOR AREA

Upper or lower or both bearings worn.
Leakage of disposer seals.

SMOKE OR BURNING ODOR FROM MOTOR

Incoming voltage not correct.
On three-phase hookups, no voltage on one feeder line (leg).
Water leaking into motor through faulty seals.
Disposer being overloaded, especially with foreign material.
Improper motor connections.

TROUBLESHOOTING (continued)

MOTOR BURNS OUT

Internal winding short.
Water leaking into motor through faulty seals.
Disposer being overloaded.
Incoming voltage not correct.
Thermal protectors (heaters) not tripping, sized too large.

WATER LEAKING FROM BASE OR DISPOSER

Defective seals.
Hole worn in base.
Motor mounting screws not sealed on "H" and "A" Series units.
Leaking plumbing connections or leaking sink mounts.

WATER SPLASHING UP FROM DISPOSER

Building water pressure too high.
Globe valve not installed or needs adjustment.

WATER FLOWS BUT MOTOR DOES NOT RUN

Thermal protectors (heaters) not installed in starter.
Motor not wired as indicated on wiring diagram.
Control not wired correctly.

MAINTENANCE

Waste disposer troubles usually involve plumbing. A preventative maintenance program is advisable to keep waste line stoppage and disposer repair at a mininum. Any sewer problem occurring shortly after your disposer has begun operation cannot be caused by the new machine. It will be the result of connecting to either an inadequate waste line, or to one that has not been properly cleared before use. On the other hand, if waste line clogging occurs after the disposer has been running trouble-free for a year or more, this indicates probable need for servicing.

The slurry leaving a new disposer contains no discernible solids, so there is nothing to clog the waste line. In regular use, however, wearing of the working parts is to be expected. As the gradual wear occurs, the solid particles passing through the wider gaps in the shatter mechanism will grow increasingly larger, until waste line stoppage may result. See Figures.

MONTHLY WEAR CHECK

NOTE: The following should be performed every two weeks if waste is of a highly abrasive consistency .

1. Shut OFF branch circuit power, or emergency disconnect on control panel when disposer has completed its clean out cycle.
2. Loosen stainless steel clamps on neoprene connector sleeve.
3. Twist neoprene sleeve loose and remove.
4. On "B" and "C" Series, loosen Quick-Release body clamps and lift of f aluminum lid.
5. Remove any foreign objects (rubber bands, metal, wood, plastics, etc.) from waste chamber .
6. Check free movement of rotor.
7. The two points of probable wear are the leading edges of the impact bars and the spacing between the outer edges of the rotor and the inner diameter of the sizing ring teeth (Figure 1, Page 13). When one end of each impact bar is worn rounded, as shown in Figure 2, Page 13, they need to be reversed (if disposer is wired to an automatic reversing control).
   A. Loosen four hex socket head cap Allen screws to release the bars. Should it be necessary use liquid wrench or a mixture of oil and kerosene to help loosen the screws.

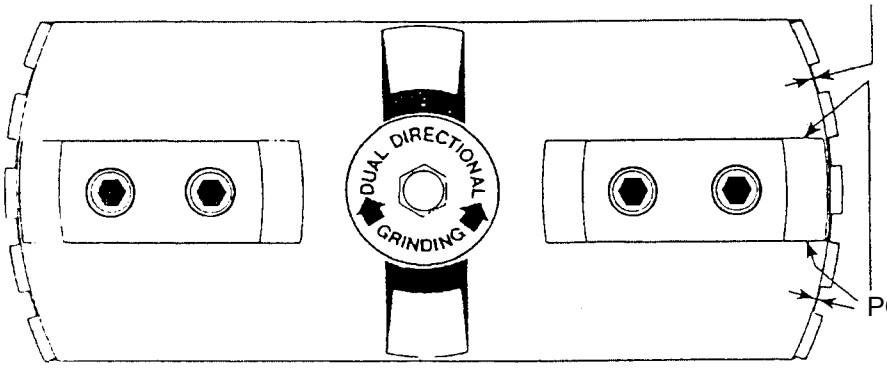
B. Reverse bars and reinstall Allen screws.

C. When the edges of the reversed impact bars become rounded (Figure 3), the bars must be replaced. See below and Page 14.

8. The second point of wear is the clearance between the outer edge of the rotor and the inner diameter of the sizing ring teeth (Figure 3).

   If the space between the rotor and sizing ring has grown to 3⁄32", (.094) and the impact bars are worn (rounded) as shown in Figure 3, replacement of total rotor and sizing ring is advisable. See below and Page 14.

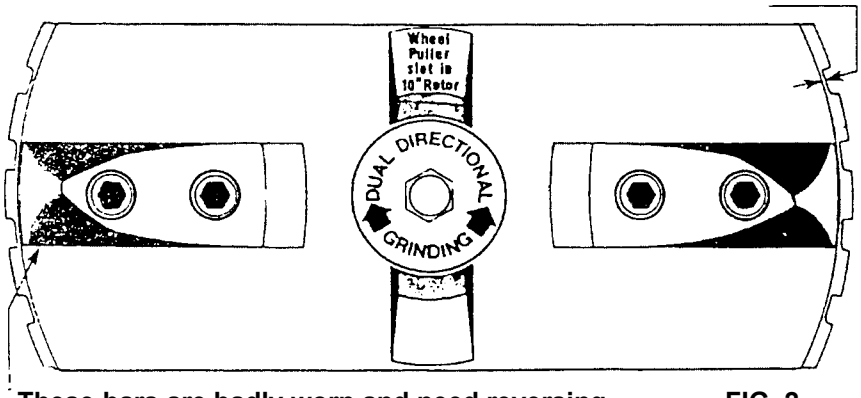
NOTE: If 3⁄32" space between rotor sna sizing ring is left to continue to increase, waste line stoppage may result as increasingly large whole sections of waste will pass through sizing ring without breaking up.



When the rotor and sizing ring are new, this spacing is 0.012" (less then 1⁄64").

POINTS OF WEAR

FIG. 1

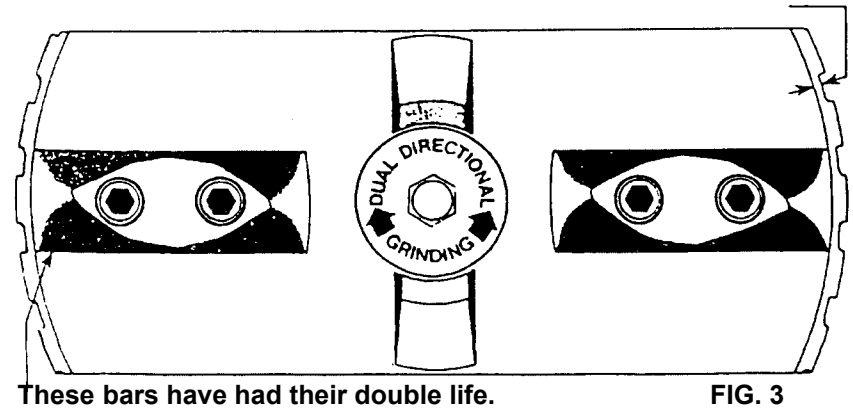


When these impact bars are reversed, presenting new working sides, this disposer will function well even though this space may have grown to 3⁄32".

At this stage of wear, no new parts are needed.

With uniform wear on the rotor and the teeth, spacing between has increased, but the new faces of the reversed bars restore efficiency.

These bars are badly worn and need reversing. **FIG. 2**
Remove Allen screws and reverse bars.



At this stage of double wear on bars, this space may be 3⁄32" (.094). Check with feeler gauge or U.S. Std. #13 gauge wire.

At this stage, bars only may be renewed–provided spacing between rotor and teeth has not grown to 3⁄32" and if waste line appears capable of handling the slurry output.

These bars have had their double life. **FIG. 3**
With both sides well worn, it is evident that this disposer was properly cared for, getting maximum length of service from all parts.

PARTS REPLACEMENT

WARNING: ALWAYS SHUT OFF MAIN POWER DISCONNECT BEFORE PERFORMING MAINTENANCE OR PARTS REPLACEMENT.

IMPACT BARS (Series A, B and C)

1. Shut off main power disconnect.
2. Disconnect water line feeding into waste chamber, if applicable.
3. Loosen stainless steel clamps and remove neoprene sleeve.
4. On Series "A" disposers, remove 4½" or 7" waste chamber by loosening and removing the six hex head bolts holding chamber to base.

   On Series "B" and "C" disposers, remove aluminum lid by loosening quick-release head clamps.
5. Insert wedge at impact bar between rotor and sizing ring to prevent rotor rotation.
6. Loosen hex socket head cap Allen screws and remove impact bars. Use liquid wrench or a solution of oil and kerosene if necessary.
7. Install new impact bars in milled slots, after cleaning slots of foreign materials. Be sure new bars fit tightly into slots and sit flatly, making metal to metal contact.
8. Remove anti-rotation wedge.
9. Replace removed components and reconnect disposer to sink or dishtable.

ROTOR AND/OR SIZING RING

1. Shut off main power disconnect.
2. Disconnect water line feeding into waste chamber, if applicable.
3. Loosen and disconnect disposer from sink or dishtable.
4. Remove waste chamber by loosening and removing the hex head bolts holding chamber to base.
5. Remove center cover bolt and plate.
6. Remove the two centering hold down studs from sizing ring and lift off sizing ring.
7. Remove old gaskets from base sizing ring or waste chamber.
8. Lift off rotor. On "B" and "C" Series, provisions for use of a wheel puller are cast into rotor. When using wheel puller, thead back cover bolt onto motor shaft ½". This will protect the threaded motor shaft.
9. Remove key from shaft.
10. Clean and inspect keyway.
11. Inspect motor seal system. If replacement is necessary, do so now. See Instructions on Page 13.
12. Oil motor shaft and slide on new rotor. Be sure rotor has seated fully on motor shaft shoulder and that shaft is below machined surface on rotor.
13. Reinsert key. Series "B" and "C" use two keys. BE SURE the keys make metal to metal contact on all surfaces in the rotor and motor shaft keyways and that the key is the full length of the keyway. Short keys will shear at peak loads. Rotate rotor slightly to be sure there is no radial play between the rotor and motor shaft.
14. Insert cover gasket, plate and bolt to lock down rotor.
15. Torque cover bolt to 34 ft-lbs.
16. Install one new gasket on base.
17. Place sizing ring over gasket on base and thread in new centering studs.
18. Center sizing ring on rotor, turning rotor several complete turns. There should now be approximately 1/64" running clearance between rotor and sizing ring.
19. Lock sizing ring into place with the centering studs. BE SURE sizing ring did not move and that running clearance has been maintained.
20. Place the second gasket over centering studs and install waste chamber.
21. Lock waste chamber into place and reconnect parts removed earlier.

PARTS REPLACEMENT (continued)

MOTOR SEALS AND/OR MOTOR

1. Shut off main power disconnect.
2. Disconnect disposer from dishtable and waste line; remove floor mount and disconnect electric line feeding motor.
3. Slide out disposer.
4. Remove rotor and sizing ring, as described on Page 14.
5. Series “H” and “A”: Remove four (4) motor bolts.

   Series “H” and “A”: Turn disposer over resting base, especially sizing ring clamping surface, on wooden blocks.
6. Series “B” and “C”: Remove four (4) motor bolts and lift of f motor.

   Series “B” and “C”: Drive out the lip seal and cartridge seal; clean seal seating area.

   Series “B” and “C”: Turn base over and set in the new lip seal (open side of seal facing up) and oil with SAE 30 oil.
7. Install cartridge seal.
   A. Place light application of Permatex adhesive gasket sealant or equivalent in seal bore in base.
   B. Fully immerse new cartridge seal in SAE 30 oil.
   C Install new cartridge seal (rubber seal ring up), using installation tool (available separately) making sure seal is fully seated in bore.
8. Turn base back onto the wooden blocks.
9. Clean motor shaft and oil shaft well with SEA 30 oil.
10. Slide motor back over seals and fasten motor. BE SURE motor is in same position as before for electrical connections.
11. Turn base with motor back over and make sure rubber seal ring on cartridge seal is in place.
12. Re-install components, as listed on Page 14 and reconnect disposer .

TEST RESULTS

“H” SERIES REPLACEMENT PARTS LIST

KEY NO.	PART NO.	NAME: DESCRITION/	QTY PER MACH.
1	30-H-RSA	RSA Head Assy1	1
		(Includes 2-9)	
2	06-H-8	Sink Stopper: "H" Series RSA	1
3	27-H-15	Sink Mount: Threaded	1
4	07-H-19	Gasket: RSA Rubber	1
5	07-H-20	Gasket: RSA Fiber	1
6	08-H-21	Screw, Hxhd 5/16-18 x 3/4	6
7	08-HA-311	Washer: Lock Split 5/16	13
8	51-H-17	RSA Head	1
9	07-H-18	Gasket: Splash Guard	1
10	06-HA-ST4	Silver Saver: 4 1/2"	1
11	07-H-34	Gasket: "H" Series cone	1
12	08-HA-22	Screw: Hxhd 5/16-18 x 1, SS	4
13	51-H-12LD	Drum	1
14	08-HA-17	Nut: Hex 5/16-18	2
15	10-5-27.	Pipe Plug: 1⁄2”	1
16	07-H-10	Gasket: Sizing Ring	2
17	08-HA-16	Centering Stud	2
18	30-H-9D	Sizing Ring	1
19	08-6-276	Nut: Hex Jam Nyloc, 5/8 x 18, SS	1
20	08-6-277	Washer: Flat H D5/8 x .134 thick	1
21	07-6-98.	Gasket: Turntable Mounting	1
22	30-H-1D	Rotor: With Cast-On Impact Bars	1
23	07-HA-83	Cartridge Seal	1
	04-HA-263	Install. Tool: HA Cartridge Seal	1
24	08-5-24.	Screw: Skhd 3/8-16x3/4 Nyloc SS	4
25	30-H-1140	Base Assy: Includes Seals Installed	1
26	06-5-849	Drain Coupling: “H” Series	1
27	07-HA-5	Gasket: Motor/Base	1
28	30-H-431	Motor: 3/4 HP, 1PH	1
		(Includes 19-21 & 28)	
28	30-H-432	Motor: 3/4 HP, 3PH	1
		(Includes 19-21 & 28)	1
28	30-H-523	Motor: 1 HP, 1PH	1
		(Includes 19-21 & 28)	1
29	02-MC-6068	Thermal Protector: #CE J53CB	1
28	30-H-524	Motor: 1 HP, 3PH	1
		(Includes 19-21 & 28)	
28	30-H-435	Motor: 1.5 HP, 1PH	1
		(Includes 19-21 & 28)	1
29	02-HA-459	Thermal Protector: #CE J50CA	1
28	30-A-436	Motor: 1.5 HP, 3PH	1
		(Includes 19-21 & 28)	
29	02-A-462	Thermal Protector: #MWJ57KB	1
28	30-A-480	Motor: 2 HP, 1PH	1
		(Includes 19-21 & 28)	
29	02-5-486	Thermal Protector: #BE J44DB	1
28	30-A-442	Motor: 2 HP, 3PH	1
		(Includes 19-21 & 28)	1
29	02-A-465	Thermal Protector:#CWJ58KB LEESON	1
31	06-5-505	Rubber Boot: Thermal Protector	1
33	08-HA-282	Key: Woodruff #606	1
34	02-HA-521	V-Ring Seal LEESON	1
35	02-HA-522	Seal: Motor Shaft LEESON	1
36	02-5-400	Bearing: #205	1
41	02-HA-399	Bearing: #203	1
42	40-H-016	Center Support Leg Kit (H Model)	1
		(Includes 42-48)	

	40-H-504	H-Complete Renewal Kit	1
		S/N 060185H01/ RG-1000 Forward	
	40-H-1DA	H-Rotor Kit (Includes 19-22)	1
	40-H-9DA	H-Sizing Ring Kit	1
		(Includes 7, 14 & 16-18)	
	40-HA-507	H-Motor Seal Kit (Includes 23 & 27)	1
		S/N 060185H01/ RG-1000 Forward	

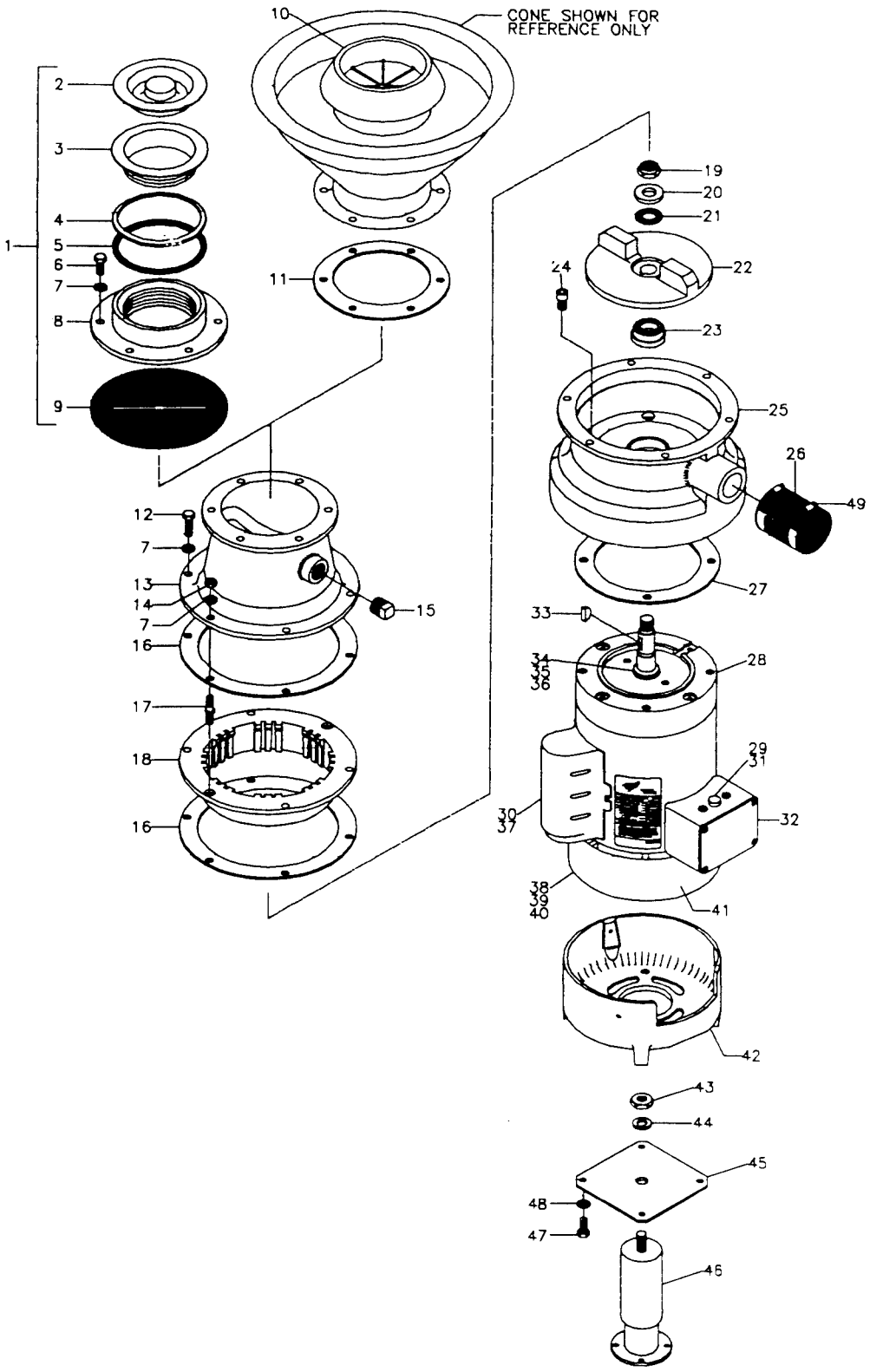
FOR USE WITH BALDOR MOTORS ONLY

19	08-H-21	Screw: Hxhd 5/16-18 x 3/4 SS Nyloc	1
20	09-HA-2	Coverplate	1
21	07-HA-3	Gasket: Coverplate	1
33	02-HA-100	Key	1
29	02-A-475	Thermal Protector: #MYJ42WB 2HP	1

(NON-STOCK ITEMS)

30, 32 & 37-40 PLEASE CONTACT OUR FACTORY

“H” SERIES REPLACEMENT PARTS DIAGRAM



“A” SERIES REPLACEMENT PARTS LIST

KEY NO.	PART NO.	NAME: DESCRITION/	QTY PER MACH.
1	06-HA-ST4	Silver Saver: 4 1⁄2”	1
	06-ABC-ST7	Silver Saver: 7”	1
2	06-A-818	Connector Sleeve: 4 1⁄2” dia. x 8”	1
	06-A-414	Connector Sleeve: 4 1⁄2” dia. x 4”	1
	06-ABC-834	Connector Sleeve: 7” dia. x 8”	1
	06-ABC-434	Connector Sleeve: 7” dia. x 4”	1
3	08-A-19	Clamp: Connector Sleeve 4 1⁄2”	2
	08-ABC-33	Clamp: Connector Sleeve 7”	2
4	51-A-11AS	Drum: 4 1⁄2” Throat	1
	51-A-11S	Drum: 7” Throat	1
	51-A-81	Offset Drum: 7” Throat	1
5	08-HA-22	Screw: Hxhd 5/16-18 x 1, SS	4
6	08-HA-311	Washer: Lock Split 5/16	6
7	08-HA-17	Nut: Hex 5/16-18	2
8	10-5-27.	Pipe Plug: 1⁄2”	1
9	07-A-10	Gasket: Sizing Ring	2
10	08-HA-16	Centering Stud	2
11	30-A-9	Sizing Ring	1
12	08-5-24.	Screw: Skhd 3/8-16 x3/4 Nyloc SS	2
13	30-A-27	Impact Bar	2
14	08-6-276	Nut: Hex Jam Nyloc, 5/8-18, SS	1
15	08-6-277	Washer: Flat, HD, 5/8 x.134 thick	1
16	07-6-98.	Gasket: Turntable Mounting	1
17	51-A-1	Rotor	1
	30-A-1	Rotor Assy: w/Impact Bars (Includes 12, 13 & 17)	1
18	08-5-24.	Screw: Skhd 3/8-16 x 3/4 Nyloc SS	4
19	07-HA-83	Cartridge Seal	1
	04-HA-263	Install. Tool: HA Cartridge Seal	1
20	30-A-1141	Base Assy: Includes Seals Installed	1
21	06-5-851	Drain Coupling: “A” & “B” Series	1
22	07-HA-5	Gasket: Motor/Base	1

MOTOR OPTIONS

23	30-H-435	Motor: 1.5 HP/1PH Includes 14-16 &23	1
24	02-HA-459	Thermal Protector: #CE J50CA	1
23	30-A-436	Motor: 1.5 HP/3PH Includes 14-16 &23	1
24	02-A-462	Thermal Protector: #MWJ57KB	1
23	30-A-480	Motor: 2 HP/1PH Includes 14-16 &23	1
24	02-5-486	Thermal Protector: #BE J44DB	1
23	30-A-442	Motor: 2 HP/3PH Includes 14-16 &23	1
24	02-A-465	Thermal Protector:#CWJ58KB LEESON	1

KEY NO.	PART NO.	NAME: DESCRITION/	QTY PER MACH.
26	02-5-400	Bearing: #205 LEESON 1.5 & 2HP UP	1
27	02-HA-399	Bearing: #203 LEESON 1.5 & 2HP LOW	1
23	30-AB-448	Motor: 3 HP/3 PH Includes 14-16 &23	1
24	02-A-464	Thermal Protector: #BYJ36KF LEESON	1
26	02-BC-401	Bearing: #206 LEESON	1
27	08-SM-1418	Bearing: #204 LEESON	1
23	30-A-481B	Motor: 5 HP/3 PH Includes 14-16 &23	1
24	02-A-488	Thermal Protector: #BYJ32KF LEESON	1
26	02-BC-401	Bearing: #206 LEESON	1
27	08-SM-1418	Bearing: #204 LEESON	1
29	02-A-523	Seal: V-Ring 3 & 5 HP LEESON	1
30	02-A-524	Seal: Motor Shaft 3 & 5 HP LEESON	1
28	08-HA-282	Key: Woodruff #606 LEESON	1
29	02-HA-521	V-Ring Seal LEESON	1
30	02-HA-522	Seal: Motor Shaft 1.5 & 2 HP LEESON	1
32	06-5-505	Rubber boot: Thermal Protector	1
34	09-A-928	Leg Assy w/Foot: 2" X 13.5, SS	3

	40-A-503	A-Complete Renewal Kit S/N 060185A01/ RG-1000 Forward	1
	40-A-1A	A-Rotor Kit (Includes 12-17)	1
	40-A-9A	A-Sizing Ring Kit (Includes 6, 7 & 9-11)	1
	40-HA-507	A-Motor Seal Kit (Includes 19 & 22) S/N 060185A01/ RG-1000 Forward	1

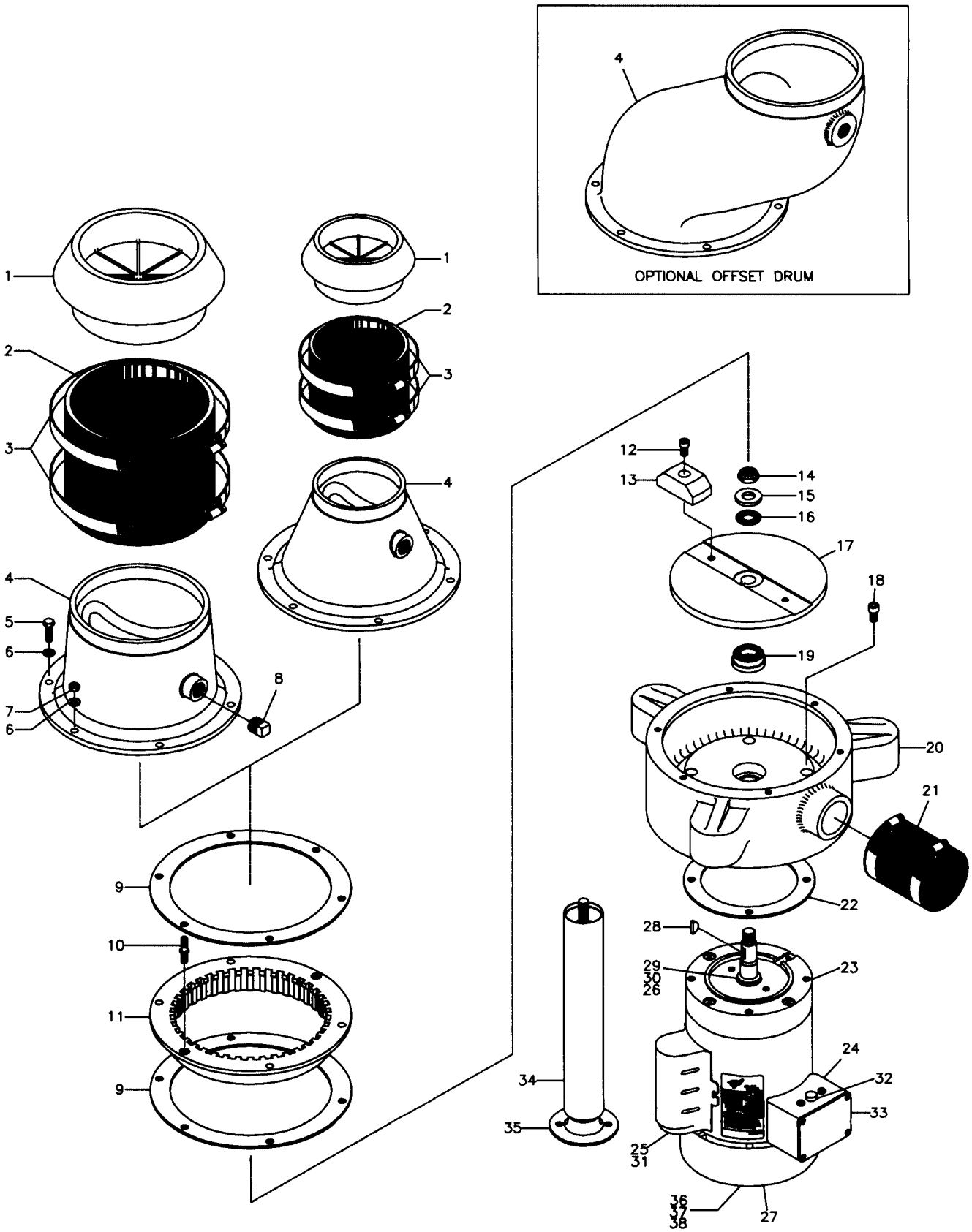
FOR USE WITH BALDOR MOTORS ONLY

14	08-H-21	Screw: Hxhd 5/16-18 x 3/4 SS Nyloc	1
15	09-HA-2	Coverplate	1
16	07-HA-3	Gasket: Coverplate	1
28	02-HA-100	Key	1
24	02-A-475	Thermal Protector: #MYJ42WB 2HP	1
24	CYJ52AB	Thermal Protector: #CYJ52AB 3HP	1
24	BY J23WB	Thermal Protector: #BY J23WB 5HP	1
26	02-5-400	Bearing: #205 UPPER 2HP	1
27	02-HA-399	Bearing: #203 LOWER 2HP	1
26	02-BC-401	Bearing: #206 UPPER 3 & 5HP	1
27	02-5-400	Bearing: #205 LOWER 3 & 5HP	1

(NON-STOCK ITEMS)

25, 31, 33, & 35-38 PLEASE CONTACT OUR FACTORY

“A” SERIES REPLACEMENT PARTS DIAGRAM



“B” SERIES REPLACEMENT PARTS LIST

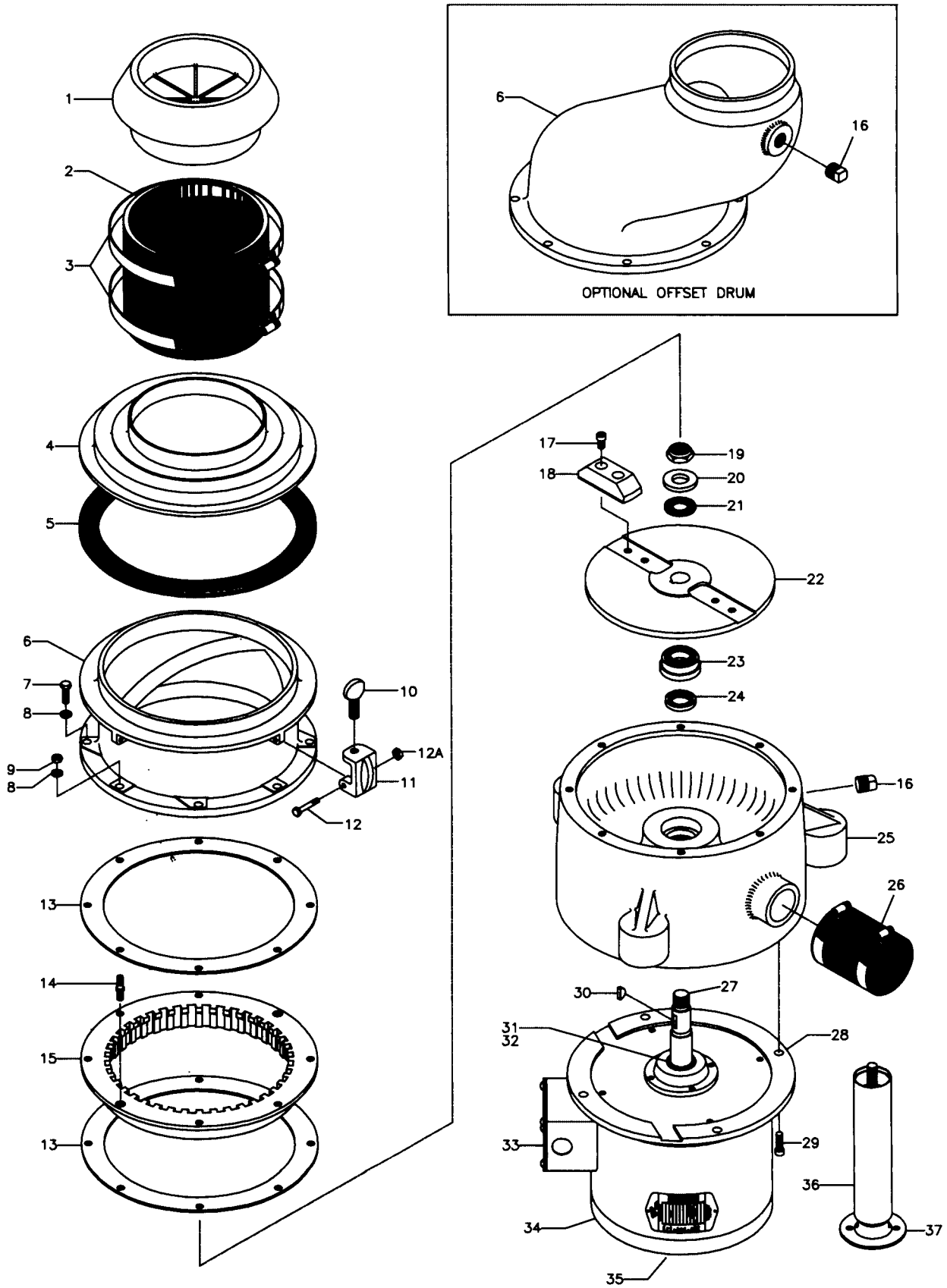
KEY NO.	PART NO.	NAME: DESCRITION/	QTY PER MACH.
1	06-ABC-ST7	Silver Saver: 7”	1
2	06-ABC-834	Connector Sleeve: 7” dia. x 8”	1
	06-ABC-434	Connector Sleeve: 7” dia. x 4”	1
3	08-ABC-33	Clamp: Connector Sleeve 7”	2
4	01-B-36L	Lid: 7” Aluminum	1
5	07-B-39	Gasket: Lid	1
6	51-B-36	Drum	1
	51-B-80	Offset Drum	1
	30-B-36	Drum Assy (includes 6 & 10-12	1
7	08-BC-71	Screw: Hxhd 3/8-16 x 1-1/2	6
8	08-BC-312	Washer: Lock Split 5/16	13
9	08-BC-1029	Nut: Hex 3/8-16	6
10	08-BC-67	Thumb Screw: Lid Clamp	4
11	51-BC-65	Lid Clamp	4
12	08-BC-285	Screw: Hxhd 3/8-15 x 1-1/2	4
13	07-B-32	Gasket: Sizing Ring	2
14	08-BC-1028	Centering Stud	2
15	30-B-31	Sizing Ring	1
16	10-5-27.	Pipe Plug: 1/2	1
17	08-5-24.	Screw: Skhd 3/8-16 X 3/4, Nyloc SS	4
18	30-B-6	Impact Bar	2
19	08-6-280	Nut: Hex Jam Nyloc, 7/8-14, SS	1
20	08-6-281	Washer: Flat, HD, 7/8 x .134 thick	1
21	07-BC-99	Gasket: Turntable Mounting	1
22	51-B-1	Rotor	1
	30-B-1	Rotor Assy: w/Impact Bars (Includes 17, 18 & 22)	1
23	07-BC-84	Cartridge Seal	1
	04-BC-264	Install. Tool: BC Cartridge Seal	1
24	07-B-14	Lip Seal	1
25	30-B-1142	Base Assy: Includes Seals Installed	1
26	06-5-851	Drain Coupling: “A” & “B” Series	1
27	30-B-141	Motor: 3 HP, 3PH Baldor (Includes 19-21 & 28)	1

KEY NO.	PART NO.	NAME: DESCRITION/	QTY PER MACH.
27	30-BC-151	Motor: 5 HP, 3PH Baldor (Includes 19-21 & 28)	1
27	30-BC-161	Motor: 7.5 HP, 3PH Baldor (Includes 19-21 & 28)	1
27	30-BC-171	Motor: 10 HP, 3PH Baldor (Includes 19-21 & 28)	1
29	08-5-24.	Screw: Skhd 3/8-16 X 3/4, Nyloc SS	4
30	08-BC-283	Key, Woodruff: #808	1
31	07-BC-903	Lip Seal: 1 7⁄8” OD Baldor 3-10 HP	1
32	02-BC-403	Bearing: #306	1
35	02-BC-401	Bearing: #206	1
36	09-BC-927	Leg Assy w/Foot: 2” x 9.6, SS	3
	40-B-501	B-Complete Renewal Kit (S/N 060185B01/ RG-1000 Forward)	1
	40-B-1A	B-Rotor Kit (Includes 17-22)	1
	40-B-31A	B-Sizing Ring Kit (Includes 8-9 & 13-15)	1
	40-B-502	B-Motor Seal Kit (Includes 23-24) (S/N 060185B01/ RG-1000 Forward)	1

(NON-STOCK ITEMS)

28, 33, 34, & 37 PLEASE CONTACT OUR FACTORY

“B” SERIES REPLACEMENT PARTS DIAGRAM



“C” SERIES REPLACEMENT PARTS LIST

KEY NO.	PART NO.	NAME: DESCRITION/	QTY PER MACH.
1	06-ABC-ST7	Silver Saver: 7”	1
2	06-ABC-834	Connector Sleeve: 7” dia. x 8”	1
	06-ABC-434	Connector Sleeve: 7” dia. x 4”	1
3	08-ABC-33	Clamp: Connector Sleeve 7”	2
4	01-C-1136	Lid: 7" Offset Opening	1
4A	07-C-1039	Gasket: Lid	1
5	51-C-1036	Drum	1
	51-C-1080	High Drum	1
	51-C-80	Offset Drum	1
	30-C-1036	Drum Assy (Includes 9-11)	1
6	08-BC-71	Screw: Hxhd 3/8-16 x 1-1/2	6
7	08-BC-312	Washer: Lock Split 3⁄8”	8
8	08-BC-1029	Nut: Hex 3/8-16	2
9	08-BC-67	Thumb Screw: Lid Clamp	4
10	51-BC-65	Lid Clamp	4
11	08-BC-285	Screw: Hxhd 1/4-20 x 1-3/4, SS	4
11A	08-BC-286	Nut: Hex Nyloc, 1/4-20, SS	4
12	07-C-1032	Gasket: Sizing Ring	2
13	08-BC-1028	Centering Stud	2
14	30-C-1031	Sizing Ring Assy	1
15	08-5-24.	Screw: Skhd 3/8-16 X 3/4, Nyloc SS	4
16	30-C-1006	Impact Bar	2
17	08-6-280	Nut: Hex Jam Nyloc, 7/8-14, SS	1
18	08-6-281	Washer: Flat, HD, 7/8 x .134 thick	1
19	07-BC-99	Gasket: Turntable Mounting	1
20	51-C-1001	Rotor	1
	30-C-1001	Rotor Assy: w/Impact Bars (includes 15, 16 & 20)	1
21	07-BC-84	Cartridge Seal	1
	04-BC-264	Install. Tool: BC Cartridge Seal	1
22	07-B-14	Lip Seal S/N 010191/ RG-1000 forward	1
23	30-C-1143	Base Assy: Includes Seals Installed	1
24	10-5-27.	Pipe Plug: 1⁄2”	1
25	06-5-851	Drain Coupling: “C” Series	1

26	30-BC-151	Motor: 5 HP, 3PH (Includes 17-19 & 33)	1

26	30-BC-161	Motor: 7.5 HP, 3PH (Includes 17-19 & 33)	1

26	30-BC-171	Motor: 10 HP, 3PH (Includes 17-19 & 33)	1

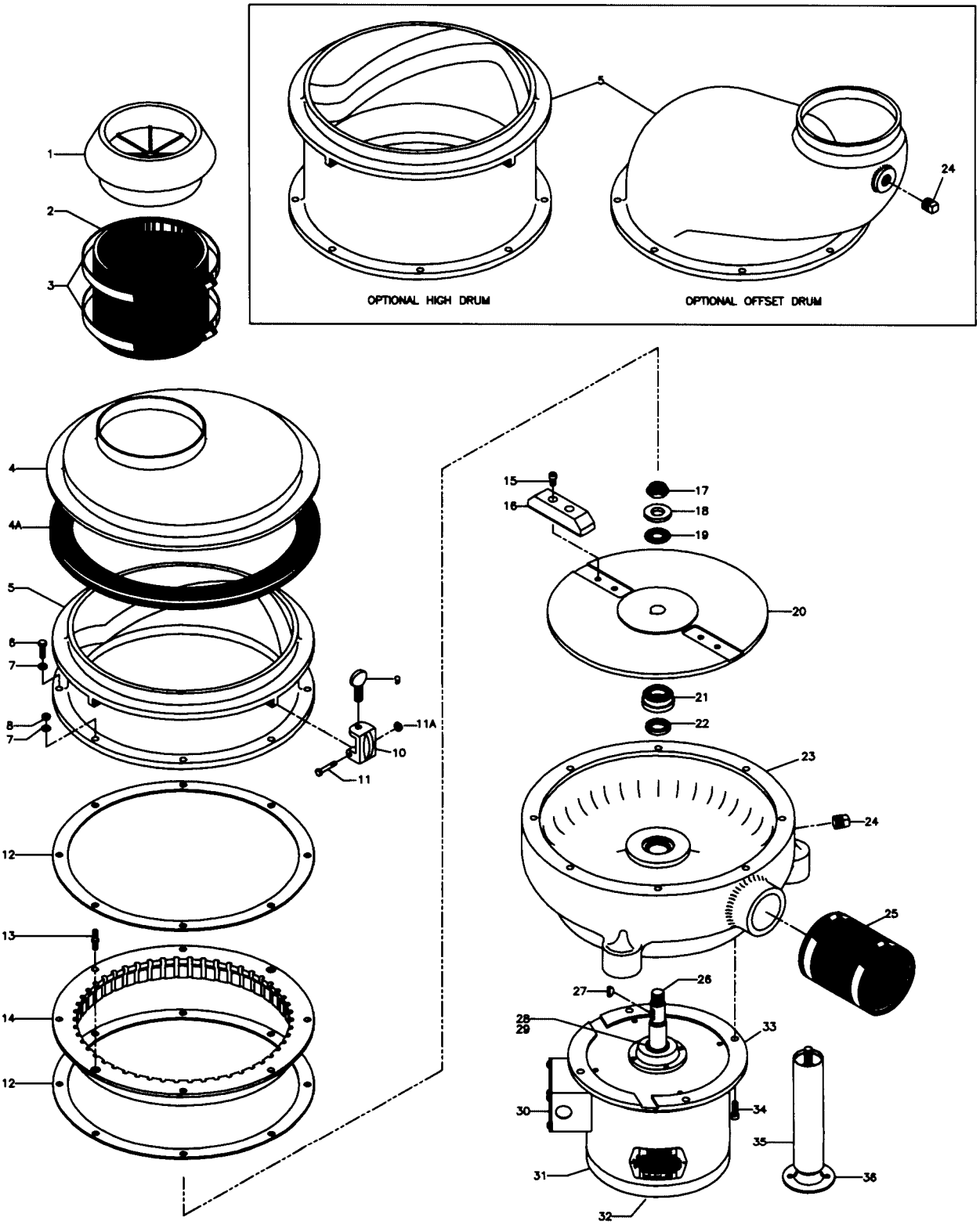
27	08-BC-283	Key, Woodruff: #808	1
28	07-BC-903	Lip Seal: 1 7⁄8” OD Baldor 3-10 HP	1
29	02-BC-403	Bearing: #306	1
32	02-BC-401	Bearing: #206	1
34	08-5-24.	Screw: Skhd 3/8-16 X 3/4, Nyloc SS	4
35	09-BC-927	Leg Assy w/Foot: 2” x 9.6, SS	3

	40-C-505	C-Complete Renewal Kit (S/N 060185C01/ RG-1000 forward)	1
	40-C-500	C-Complete Renewal Kit (Thru S/N 053185C17)	1
	40-C-1001A	C-Rotor Kit (includes 15-20)	1
	40-C-1031A	C-Sizing Ring Kit (Includes 7-8 & 12-14)	1
	40-C-1012A	C-Motor Seal Kit	1
	40-B-502	B-Motor Seal Kit (S/N 010191/ RG-1000 forward)	1

(NON-STOCK ITEMS)

30, 31, 33, & 36 PLEASE CONTACT OUR FACTORY

“C” SERIES REPLACEMENT PARTS DIAGRAM

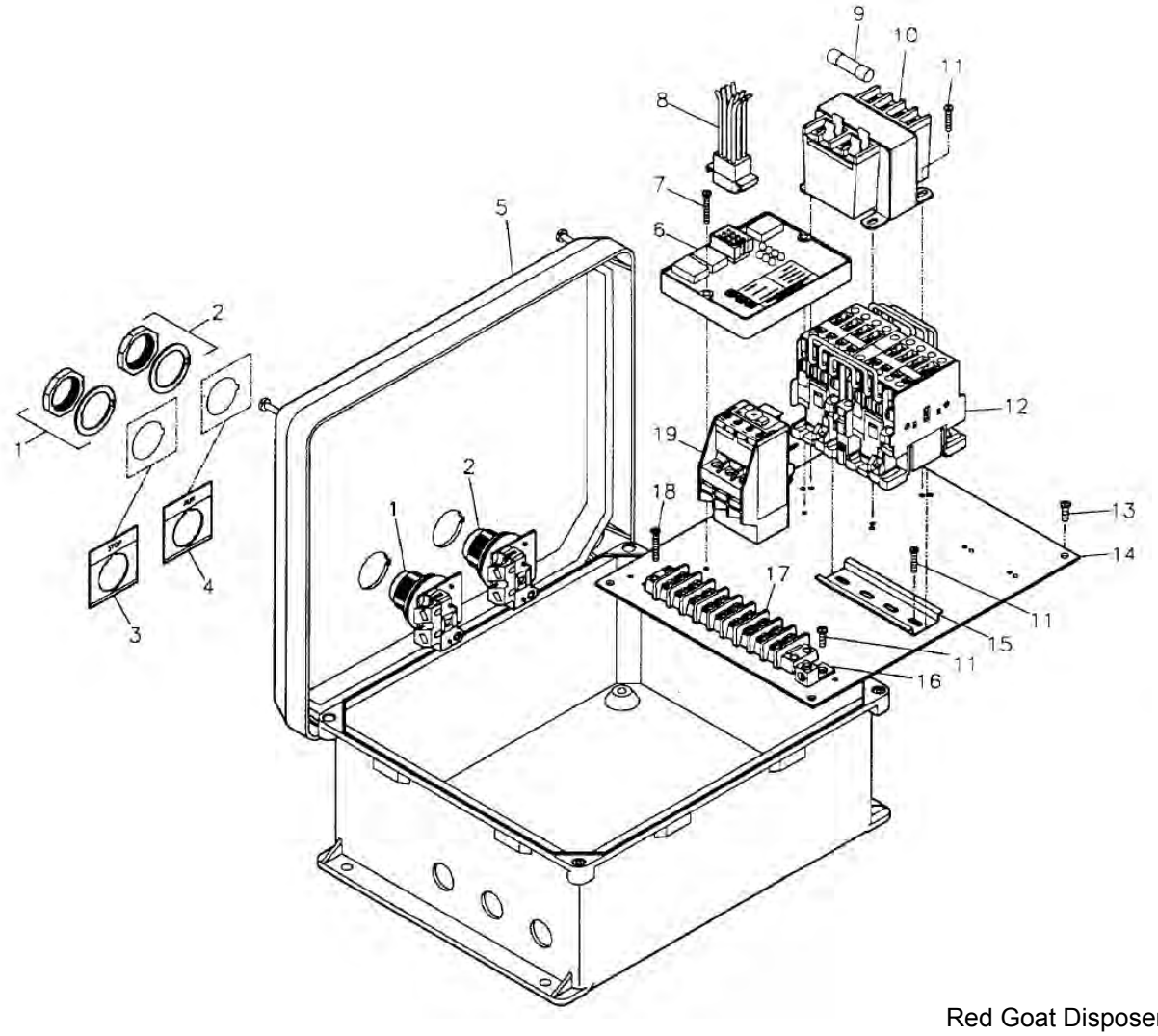


RAC1 REPLACEMENT PARTS LIST

KEY	PART NO.	NAME: DESCRIPTION
1	03-5-988	Pushbutton Assy: Red (N.C.)
2	03-5-987	Pushbutton Assy: Black (N.O.)
3	03-5-1023	Legend Plate: “STOP”
4	03-5-1025	Legend Plate: “RUN”
5	03-5-1042	Enclosure: Non-Metallic, RAC1 & 2
6	03-5-1034	Control Module
7	08-6-258	Screw: Php HD, 8-32 x 1
8	03-5-1000	Wiring Harness: RAC1
9	03-HAB-940	Fuse: 2.5 Amp
10	03-HAB-995	Transformer: 24V/115, 230V 50VA
	03-HAB-911	Transformer: 24V/208, 230, 460V 50VA
	03-HAB-912	Transformer: 24V/380V 50VA
11	08-6-250	Screw: Php HD, 8-32 x 1/2
12	03-HAB-906	Contactor: Rev, 10A, 24V, 50/60HZ (Use w/ 0H, 1.5L, 1.5H, 2L, 2H & 5H)
	03-BC-907	Contactor: Rev, 17.5A, 24V, 50/60HZ (Use w/ 0L, 1H, 2.5H, 5L, 7H & 10H)
	03-C-909	Contactor: Rev, 32A, 24V, 50/60HZ (Use w/ 1L, 2.5L, 7L & 10L)

KEY	PART NO.	NAME: DESCRIPTION
13	08-5-949	Screw, Php HD, 10-32 x 1/2
14	03-5-983	Back Plate: RAC1 & 2
15	03-5-1067	Track: Contactor Mounting
16	03-5-1097	Grounding Lug
17	03-5-1002	Terminal Strip: 9 Position
	03-5-1001	Terminal Strip: 6 Position
	03-5-1085	Terminal Strip: 13 Position
18	08-6-251	Screw, Php HD, 8-32 x 3/4
19	03-5-1124	Overload Relay: 3-12 Amp (Use with 1.5L, 1.5H & 5H)
	03-5-1125	Overload Relay: 11-16 Amp (Use with 2.5H, 5L, 7H & 10H)
	03-5-1126	Overload Relay: 18-25 Amp (Use with 2.5L & 7L)
	03-5-1127	Overload Relay: 22-32 Amp (Use with 10L)

SPECIFY HP, VOLTAGE, PHASE, MODEL AND SERIAL NUMBER WHEN ORDERING CONTACTORS AND OVERLOAD RELAYS.

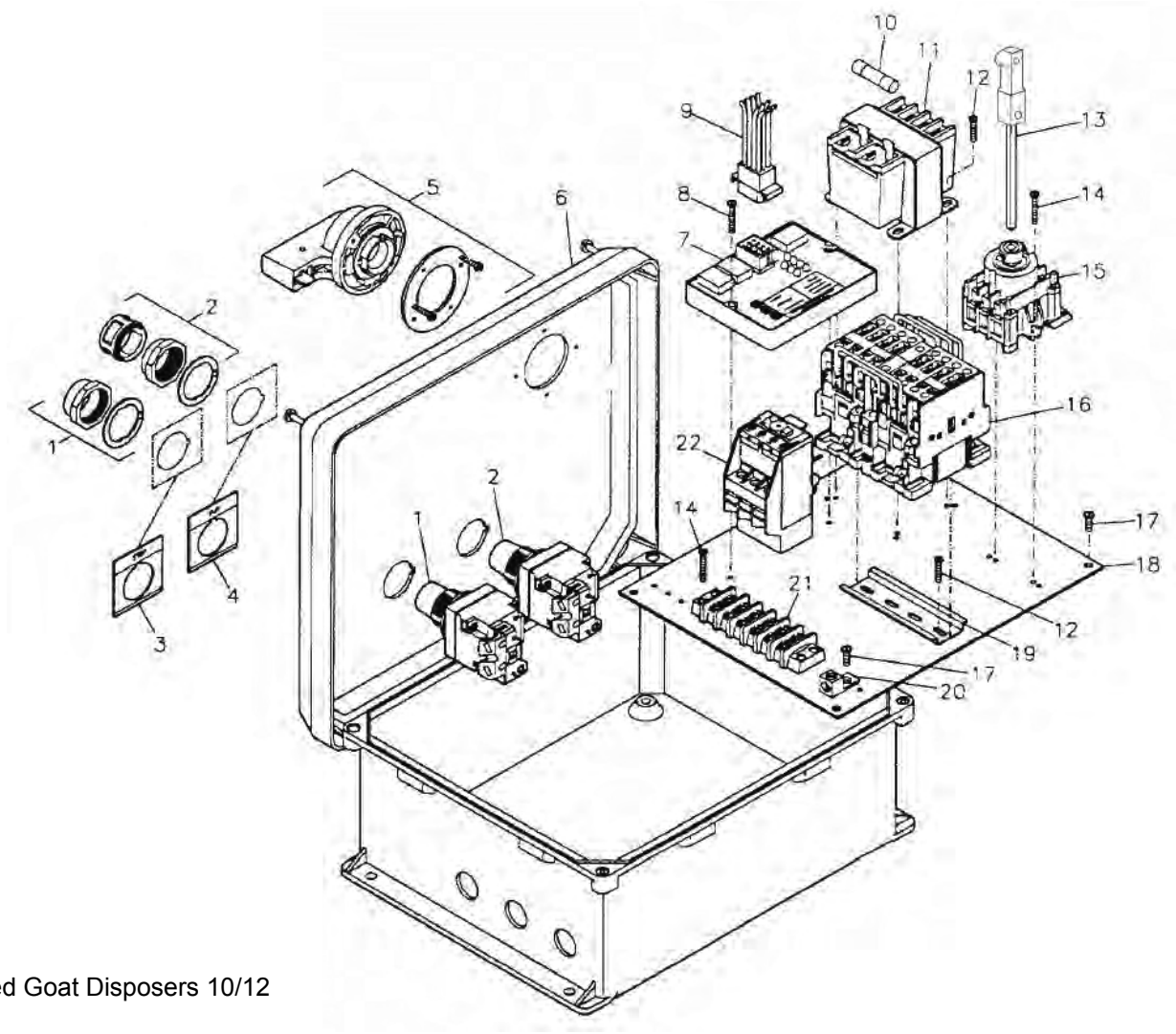


RAC2 REPLACEMENT PARTS LIST

KEY	PART NO.	NAME: DESCRIPTION
1	03-5-1036	Pushbutton Assy: Lighted, Red
2	03-5-1037	Pushbutton Assy: Lighted, Amber
3	03-5-1023	Legend Plate: “STOP”
4	03-5-1025	Legend Plate: “RUN”
5	03-5-1049	Handle: Disconnect Switch (w/Shaft)
6	03-5-1042	Enclosure: Non Metallic, RAC1 & 2
7	03-5-1034	Control Module
8	08-6-258	Screw: Php HD, 8-32 x 1
9	03-5-999	Wiring Harness: RAC2
10	03-HAB-940	Fuse: 2.5 Amp
11	03-HAB-995	Transformer: 24V/115, 230V 50VA
	03-HAB-911	Transformer: 24V/208, 230, 460V 50VA
	03-HAB-912	Transformer: 24V/380V 50VA
12	08-6-250	Screw: Php HD, 8-32 x 1/2
13	03-5-1120	Shaft: Disconnect Switch, RAC2
14	08-6-251	Screw, Php HD, 8-32 x 3/4
15	03-5-1041	Disconnect Switch: 40 Amp, RAC2
16	03-HAB-906	Contactor: Rev, 10A, 24V, 50/60HZ (Use w/ 0H, 1.5L, 1.5H, 2L, 2H & 5H)
	03-BC-907	Contactor: Rev, 17.5A, 24V, 50/60HZ (Use w/ 0L, 1H, 2.5H, 5L, 7H & 10H)
	03-C-909	Contactor: Rev, 32A, 24V, 50/60HZ (Use w/ 1L, 2.5L, 7L & 10L)

KEY	PART NO.	NAME: DESCRIPTION
17	08-5-949	Screw, Php HD, 10-32 x 1/2
18	03-5-983	Back Plate: RAC1 & 2
19	03-5-1067	Track: Contactor Mounting
20	03-5-1097	Grounding Lug
21	03-5-1002	Terminal Strip: 9 Position
	03-5-1001	Terminal Strip: 6 Position
	03-5-1085	Terminal Strip: 13 Position
22	03-5-1124	Overload Relay: 3-12 Amp (Use with 1.5L, 1.5H & 5H)
	03-5-1125	Overload Relay: 11-16 Amp (Use with 2.5H, 5L, 7H & 10H)
	03-5-1126	Overload Relay: 18-25 Amp (Use with 2.5L & 7L)
	03-5-1127	Overload Relay: 22-32 Amp (Use with 10L

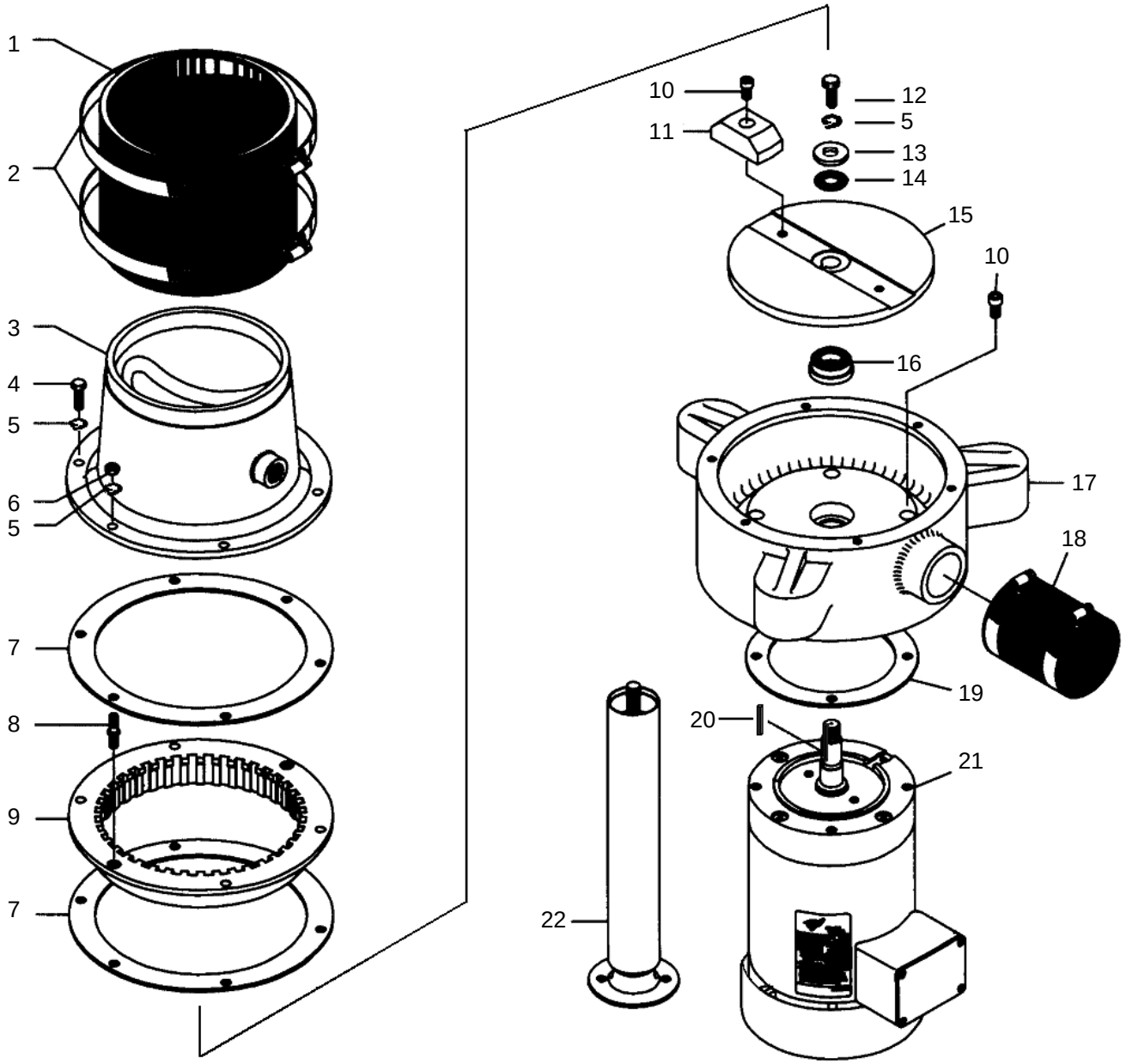
SPECIFY HP, VOLTAGE, PHASE, MODEL AND SERIAL NUMBER WHEN ORDERING CONTACTORS AND OVERLOAD RELAYS



HOSTILE ENVIRONMENT TABLE REPLACEMENT PARTS

KEY NO.	PART NO.	NAME: DESCRIPTION
1	A2P-THE	Hostile Environment Table: 2HP 3 Phase 7” Throat
	A3P-THE	Hostile Environment Table: 3HP 3 Phase 7” Throat
	A5P-THE	Hostile Environment Table: 5HP 3 Phase 7” Throat
2	A2P-R7HE	2 HP 3 Phase 7” Throat Disposer - Includes Chrome Plated Option
	A3P-R7HE	3 HP 3 Phase 7” Throat Disposer - Includes Chrome Plated Option
	A5P-R7HE	5 HP 3 Phase 7” Throat Disposer - Includes Chrome Plated Option
		(For H.E. Disposer Parts Breakdown, view Hostile Environment Disposer “A” Series Rep. Parts page)
3	10-H-303	1/2” Flow Control Valve: 3 GPM (Qty. 2 per Unit)
4	05-5-154	1/2” 24 Volt Solenoid Valve
5	RAC2-2L	Control Panel - 2 HP, 3 Phase, 208/230 Volt
	RAC2-2H	Control Panel - 2 HP, 3 Phase, 460 Volt
	RAC2-5LA	Control Panel - 3-5 HP, 3 Phase, 208/230 Volt
	RAC2-5HA	Control Panel - 3-5 HP, 3 Phase, 460 Volt
6	40-HE-014	Optional Full Enclosure Stainless Panels (Complete Set)
	04-5-333	Replacement Stainless Side Panel
	04-5-335	Replacement Stainless Side Panel (Connection Side)

HOSTILE ENVIRONMENT DISPOSER
"A" SERIES REPLACEMENT PARTS



KEY NO.	PART NO.	NAME: DESCRIPTION	QTY. PER MACH.
1	06-ABC-834	Connector Sleeve: 7" dia. x 8"……	1
2	08-ABC-33	Clamp: Connector Sleeve 7"……..	2
3	51-A-11S	Drum: 7" Throat……	1
4	08-HA-22	Screw: Hxhd 5/16-18 x1, SS……..	4
5	08-HA-311	Washer: Lock Split 5/16……..	7
6	08-HA-17	Nut: Hex 5/16-18……..	2
7	07-A-10	Gasket: Sizing Ring……..	2
8	08-HA-16	Centering Stud……..	2
9	30-A-9HC	Sizing Ring: Chrome Plated……	1
10	08-5-24	Screw: Skhd 3/8-16 x 7/8……	6
11	30-A-27HC	Impact Bar: Chrome Plated……	2
12	08-HA-23	Screw: Hxhd 5/16 x 18 x 3/4, Nylock……	1
13	09-HA-2	Coverplate……	1

KEY NO.	PART NO.	NAME: DESCRIPTION	QTY. PER MACH.
14	07-HA-3	Gasket: Coveplate……	1
15	51-A-1HC	Rotor: Chrome Plated……	1
	30-A-1HC	Rotor Assy: Chrome Plated…….. (Includes Items: (2)10, (2)11, 15)	1
16	07-HA-83	Cartridge Seal……	1
	04-HA-263	Install Tool: HA Cartridge Seal……	1
17	30-A-1141	Base Assy: Includes Seal Installed……	1
18	06-5-851	Drain Coupling: "A" & "B" Series……..	1
19	07-HA-5	Gasket: Motor/Base……..	1
20	02-HA-100	Key……	1
21	30-A-442	Motor: 2 HP, 3 PH, HE……..	1
	30-AB-448	Motor: 3 HP, 3 PH, HE……..	1
	30-A-481B	Motor: 5 HP, 3 PH, HE.....	1
22	09-A-928	Leg Assy w/Foot: 2" x 13.5 SS……	3

TERMS OF SALE

1. NATURE OF DOCUMENT. This document constitutes the acceptance of the RED GOAT Disposers Division of Somat Company ("Seller") to sell the products specified on the reverse side (the "Products") on the terms and conditions contained herein, however, acceptance is made expressly conditional on the Buyer's agreement to all of the terms and conditions contained herein. Seller's acceptance of a purchase order from the Buyer shall not constitute acceptance of any of the terms and conditions thereon which differ from these terms, except as the Seller may otherwise specify in writing.
2. TERMINATION AND CANCELLATION. Seller shall have the right to terminate and cancel the contract for sale of the Products at any time Seller determines that Buyer's credit is not satisfactory. Any such termination or cancellation shall be effective upon notification (orally or in writing) to Buyer and shall be without liability to the Seller. Under no circumstances shall Buyer have the right to terminate the contract or cancel its order to purchase the Products, without written authorization by the Seller. All cancelled orders and returned goods will be subject to a minimum of 25% cancellation and/or restocking charge. Custom or modified units cannot be returned.
3. PRICES. Unless otherwise indicated, prices are F.O.B. Lancaster, PA and do not include any sales, use, excise or similar taxes or duties now or hereafter imposed. Errors or omissions in prices are subject to correction.
4. PAYMENT. Unless otherwise indicated, payment terms are net cash 30 days from date of shipment. In the event that the Buyer fails to make payment on time, Buyer shall be liable to Seller for the lesser of (a) 1.5% per month on the remaining balance or (b) the highest monthly interest rate which may lawfully be charged to Buyer. Buyer shall be liable for all expenses (including reasonable attorneys' fees) incurred by Seller in collecting or attempting to collect any amounts due to Seller under the contract.
5. TITLE; RISK OF LOSS. Title to, and risk of loss of, the Products shall pass to Buyer upon the delivery of the Products F.O.B. Lancaster, PA to an agent of Buyer or to a common carrier.
6. INSPECTION. If, upon receipt of the Products by Buyer at the destination, the same shall appear not to conform to the order, Buyer shall within seven (7) days after receipt thereof, notify Seller of such condition and afford Seller a reasonable opportunity to inspect the Products and make the appropriate adjustments, repair or replacement. The remedies afforded under Section 7 below shall be exclusive for any defects discovered in the Products and which could have been discovered upon inspection. If the Seller is not so notified, the Buyer waives any recourse for those defects, and all warranty obligations of Seller regarding such obvious defects or deficiencies shall terminate.
7. LIMITED WARRANTIES AND REMEDIES. Seller warrants that, at the time of shipment, the Products will be free from defects in material and workmanship for a period of one year from the date of purchase by the initial user. Written notice of a claim under this warranty must be received by Seller before the expiration of such period in order for warranty coverage to apply.
If notice of a claim is timely made, Seller will repair or replace the Product or part which is defective (at Seller's sole option) either at the user's facility or at Seller's plant, as Seller shall decide. If Seller decides that a Product or part should be returned to its plant, the Buyer or user shall have the following obligations:
(a) removal of any parts to be returned;
(b) identification of all parts with tags stating the model number and serial number of the Products on which the part is used;
(c) shipment of Products and/or parts, transportation prepaid, to Seller's plant;
(d) installation of the repaired or replaced Product or parts at user's facility.
This Warranty shall not apply to the extent that Products or parts have been used other than in conformance with operating or maintenance instructions, subjected to misuse or abuse, damaged by accident, act of God, abnormal use or stress or any other matter unrelated to Seller and beyond its reasonable control or altered or modified by third parties.
THIS WARRANTY IS EXCLUSIVE AND IS IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR PURPOSE. IN NO EVENT SHALL THE COMPANY BE LIABLE FOR LOSS OF USE, REVENUE OR PROFIT OR FOR ANY OTHER INCIDENTAL, SPECIAL OR CONSEQUENTIAL DAMAGE INVOLVING THE PRODUCTS.
8. LIMITATION OF LIABILITY. The liability of Seller arising out of the manufacture, sale, delivery, repair, or use of any of the Products shall not, in any event, exceed the cost of correcting defects or making replacement as required in the Limited Warranty and, upon the expiration of the Limited Warranty, all liability of Seller to Buyer shall terminate.
9. DELAYS. Neither party shall be liable for any delay or failure to perform any obligation to the other if such delay or failure shall be caused by an event or contingency beyond its reasonable control, irrespective of the nature thereof, however, the delaying party shall endeavor to correct such delay as soon as reasonably practicable.
10. MODIFICATION; ASSIGNMENT; APPLICABLE LAW; ENTIRE AGREEMENT. No modification of the terms and conditions specified in the contract shall be binding upon Seller unless agreed to by Seller in writing. The contract shall not be assigned by Buyer, nor may any of the duties of Buyer there under be delegated, without the written consent of Seller. Any such assignment or delegation without such consent shall be void. The contract shall be governed by, and construed in accordance with, the laws of the State of Pennsylvania. The provisions of the contract shall constitute the entire agreement of the parties with respect to the sale of the Products by Seller to Buyer and shall supersede all prior discussion and writings between the parties.
11. BINDING EFFECT OF CONTRACT. The contract shall be binding upon, and shall inure to the benefit of, the parties hereto and their respective successors and assigns.
12. RETURNS. No returns will be accepted without the prior approval of the Seller. A Return Authorization Number must be given by Seller prior to Products being shipped, freight prepaid, by Buyer. Any damage in transit to Products being returned is Buyer's responsibility.
All accepted returns are subject to a 25% or $25.00 minimum restocking charge. Returns that have been approved by Seller must be received within thirty (30) days after approval. Returns will not be considered after ninety (90) days from date of original notice.
13. INDEMNITY. Buyer agrees to indemnify, hold harmless and defend Seller from and against any and all liabilities and expenses arising out of any injury or damage which results from Buyer's use, misuse, misapplication, failure to inspect, maintain or repair the Products which are the subject of this agreement.
14. MINIMUM ORDER. $75.00 net.

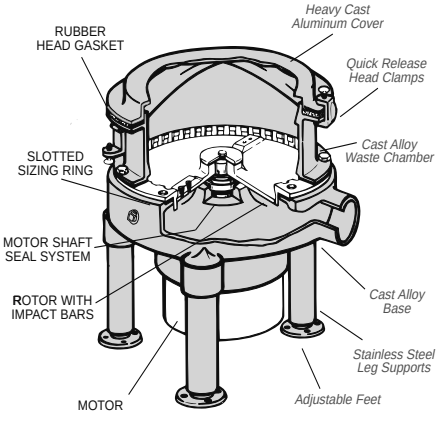
WARRANTY

THE EXCLUSIVE ONE AND TEN YEAR WARRANTY

All products (and parts) manufactured and sold by RED GOAT DISPOSERS (the "Manufacturer") are warranted to be free from defects in material and workmanship for a period of one year following the date of its initial installation or eighteen months from the date of shipment from the factory or factory warehouse, whichever expires first. Notice of a claim under this Warranty must be received by the Manufacturer at its offices before the expiration of such period in order for Warranty coverage of **PARTS AND LABOR** to apply.

If notice of a claim is timely made, the Manufacturer will repair or replace the product or part which is defective either at the user's facility or at the Manufacturer's plant, as the Manufacturer shall decide. In addition, the Manufacturer warrants that the basic body components of every Red Goat Disposer will remain serviceable for a period of at least **TEN YEARS.** Should any of these basic body components require replacement during the first ten years of normal usage following installation the Manufacturer will furnish new duplicate parts to the original user at no charge. Manufacturer cannot warrant products returned to the factory not properly packaged, causing additional damage.

This Warranty shall not apply to the extent that products or parts have been used other than in conformance with operating and maintenance instructions, subjected to misuse or abuse or damage by accident, act of God, abnormal use or stress or any other matter unrelated to the Manufacturer, and beyond its reasonable control or otherwise altered or modified by third parties. In addition, this Warranty does not cover normal wear items, such as sizing rings, impact bars and rotors. THIS WARRANTY IS EXCLUSIVE AND IS IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED AND IMPLIED, INCLUDING THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR PURPOSE. In no event shall the Manufacturer be liable for loss of use, revenue or profit or for indirect or consequential damages.



All Red Goat machines are packed in heavy corrugated shipping containers suitable for reshipment.
Red Goat Disposers is not responsible for any typographical errors.
Due to continued product improvement specifications are subject to change without notice.

STANDARD ONE YEAR WARRANTY	TEN YEAR WARRANTY
ALL RED GOAT disposer components, shown above in BLOCK print, are guaranteed against all defects for the initial ONE YEAR period of use, as stated in the Warranty.	ALL RED GOAT basic body components, shown above in *italicized* print, are guaranteed to remain serviceable at least TEN YEARS as stated in the Warranty.