

Fluid evacuation system

Models 4100, 4102



Date of issue	March 2013
Form number	404248
Section	B5
Page	50D

⚠ DANGER

Read manual prior to installation or use of this product. Keep manual nearby for future reference. Failure to follow instructions and safety precautions may result in death or serious injury.

User's manual

Have a technical question?

If you have questions, or require technical service, please contact our trained service technicians at:

1-314-679-4200 ext. 4782

Monday – Friday 7:30 am to 4:15 pm CST

Visit our web site at www.lincolnindustrial.com for new products, catalogs, and instructions for product use.

Need service parts?

To order replacement or service parts, visit us online at www.lincolnindustrial.com or call toll free 1-800-992-9898.

Description

The Lincoln 4100 and 4102 fluid evacuation systems provide a clean, safe way to evacuate waste fluids. Both systems feature a corrosion resistant aluminum double diaphragm pump that creates a powerful suction to evacuate waste fluids and transfer them through an enclosed system to a remote storage tank. The 4100 includes a U.L. approved pump for transferring used motor oil or other potentially flammable fluids. Model 4102 includes a non-U.L. listed pump for transferring non-flammable fluids such as coolant or windshield cleaner. The systems can evacuate used fluids from rolling drain pans, portable oil drain containers and differentials and transaxles. The pumps are air operated and can be mounted on any convenient wall surface. One basic system can be connected with additional hardware to serve multiple service bays.

Owner/operator responsibility

It is the owner/operator responsibility to properly use and maintain this equipment. The instructions and warnings contained in this manual shall be read and understood by the owner/operator prior to operating this equipment.

If an owner/operator does not understand English, the contents of this manual shall be explained in the owner/operator's native language to assure the owner/operator comprehends.

It is the owners/operators responsibility to maintain the legibility of all warning and instruction labels.

The owner/operator shall retain this manual for future reference to important warnings and installation instructions.

Installation

Depending on the type of fluid to be evacuated, the fluid evacuation system installation and use must be in accordance with the Flammable and Combustible Liquids Code (NFPA 30) and Automotive and Marine Service Station Code (NFPA 30A) and must comply with all local, state and Federal codes.

Also, the United States government safety standards have been adopted under the Occupational Safety and Health Act. These standards should be consulted, particularly the General Standards, Part 1910, and the Construction Standard, Part 1926.

Grounding

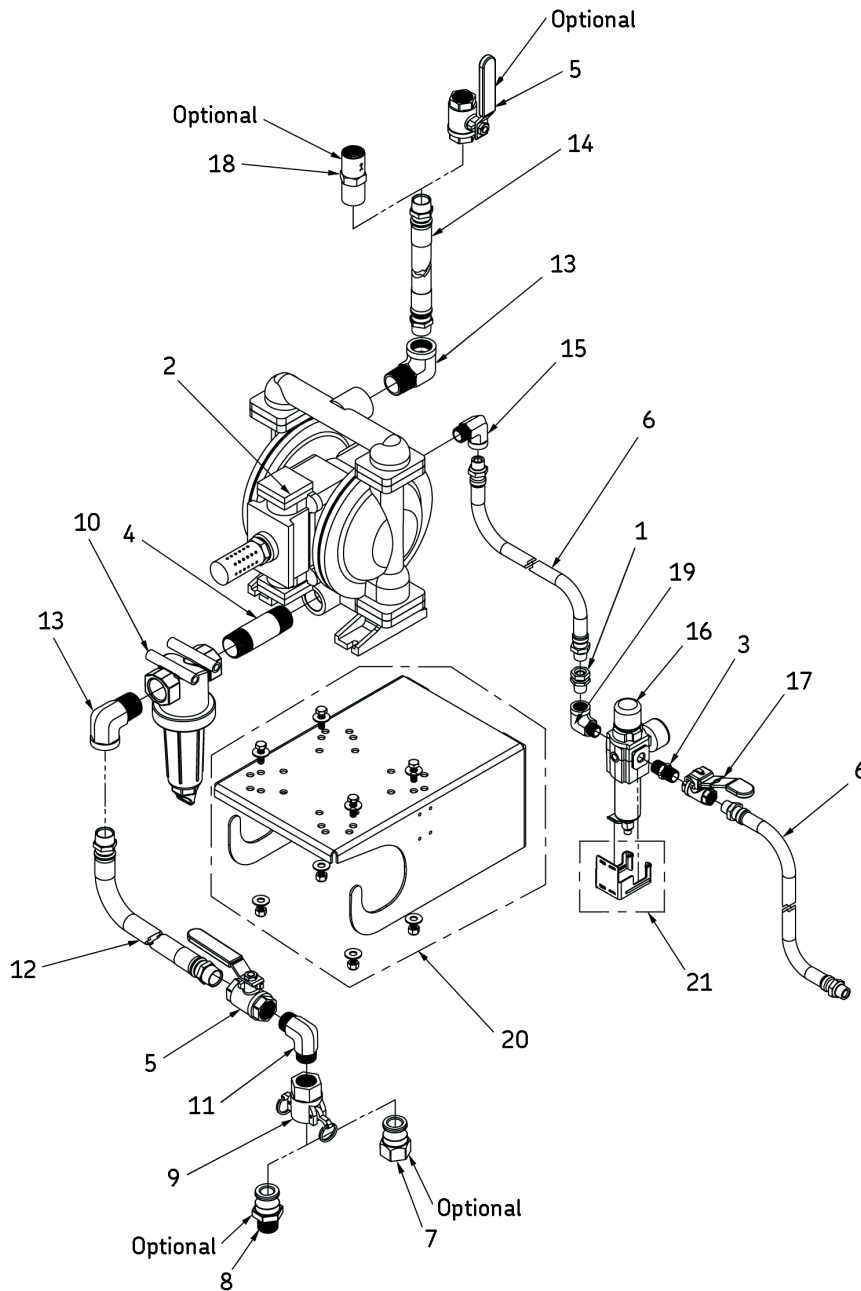
To reduce the risk of static electrical sparking, the system must be grounded. Refer to your local, state, federal electrical codes for detailed grounding instructions that are applicable to your area and type of equipment.

WARNING

Failure to heed the following warnings including failure to ground equipment, misuse, over pressurizing, modifying parts, evacuating incompatible fluids, or using worn or damaged parts, may result in equipment damage and/or serious personal injury, fire, explosion, or property damage.

- Make sure the pump and all other equipment used or located in the pumping area are grounded.
- Do not use the system if any static sparking or electrical shock occurs. Stop the evacuation immediately and do not use the system until the problem is corrected.
- Do not exceed the stated maximum working pressure of the pump or of the lowest rated component in your system. Do not alter or modify any part of this equipment.
- Do not attempt to repair or disassemble the equipment while the system is operating.
- Make sure all connections are securely tightened before using this equipment.
- Always read and follow the fluid manufacturer's recommendations regarding fluid compatibility, and the use of protective clothing and equipment.
- Check all equipment regularly and repair or replace worn or damaged parts immediately.
- Never place your hand on or near the pump suction inlet.

Exploded view



Service/replacement parts and kits

Ref. no.	Part/kit	Description
1	66842	Adapter union
2	85634	U.L. listed 1 in. diaphragm pump (4100)
	85627	Non U.L. 1 in. diaphragm pump (4102)
3	10540	3/8 in. x 3/8 in. pipe nipple
4	277644	1 in. x 1 in. x 4 in. pipe nipple
5	273607	3/4 in. x 3/4 in. ball valve
6	273298	3/8 in. x 24 in. air hose
7	277645	3/4 in male camlock, male thread
8	276291	3/4 in male camlock, female thread
9	276411	3/4 in female camlock
10	273572	T-strainer
11	277414	3/4 in x 3/4 in elbow
12	277417	Suction hose
13	277416	3/4 in female x 1 in. male elbow
14	277418	Discharge hose
15	277415	1/2 in. male x 3/8 in. female elbow
16	602136	3/8 in. filter/regulator combo
17	277419	3/8 in. x 3/8 in. ball valve
18	274879	Check valve
19	67358	Street elbow
20	85257	Wall-mount bracket
21	247775	Mounting bracket

This page left intentionally blank.

Lincoln industrial standard warranty

Standard limited warranty

Lincoln warrants the equipment manufactured and supplied by Lincoln to be free from defects in material and workmanship for a period of one (1) year following the date of purchase, excluding there from any special, extended, or limited warranty published by Lincoln. If equipment is determined to be defective during this warranty period, it will be repaired or replaced, within Lincoln's sole discretion, without charge.

This warranty is conditioned upon the determination of a Lincoln authorized representative that the equipment is defective. To obtain repair or replacement, you must ship the equipment, transportation charges prepaid, with proof of purchase to a Lincoln Authorized Warranty and Service Center within the warranty period.

This warranty is extended to the original retail purchaser only. This warranty does not apply to equipment damaged from accident, overload, abuse, misuse, negligence, faulty installation or abrasive or corrosive material, equipment that has been altered, or equipment repaired by anyone not authorized by Lincoln. This warranty applies only to equipment installed, operated and maintained in strict accordance with the written specifications and recommendations provided by Lincoln or its authorized field personnel.

This warranty is exclusive and is in lieu of any other warranties, express or implied, including, but not limited to, the warranty of merchantability or warranty of fitness for a particular purpose. Warranty on items sold by Lincoln, but not manufactured by Lincoln are subject to the warranty consideration, if any, of their manufacturer (such as hoses, hydraulic and electric motors, electrical controllers, etc.) Assistance in making such warranty claims can be offered as required.

In no event shall Lincoln be liable for incidental or consequential damages. Lincoln's liability for any claim for loss or damages arising out of the sale, resale or use of any Lincoln equipment shall in no event exceed the purchase price. Some jurisdictions do not allow the exclusion or limitation of incidental or consequential damages, therefore the above limitation or exclusion may not apply to you.

This warranty gives you specific legal rights. You may also have other rights that vary by jurisdiction.

Customers not located in the Western Hemisphere or East Asia: Please contact Lincoln GmbH and Co. Kg, Walldorf, Germany, for your warranty rights.

Special limited warranties

Special limited 2 year warranty SL-V series, single injectors–85772, 85782, and replacement injectors–85771, 85781

Lincoln warrants the SL-V Injector series to be free from defects in material and workmanship for two (2) years following the date of purchase. If an injector model (single or replacement) is determined to be defective by Lincoln, in its sole discretion, during this warranty period, it will be repaired or replaced, at Lincoln's discretion, without charge.

Special limited 5 year warranty series 20, 25, 40 bare pumps, pmv bare pumps, heavy duty and 94000 series bare reels

Lincoln warrants series 20, 25, 40 bare pumps, PMV bare pumps, heavy duty (82206), mini bench (81133, 81323), and all 94000 LFR series (single arm and dual arm) bare reels to be free from defects in material and workmanship for five (5) years following the date of purchase. If equipment is determined by Lincoln, in its sole discretion, to be defective during the first year of the warranty period, it will be repaired or replaced at Lincoln's discretion, without charge. In years two (2) and three (3), the warranty on this equipment is limited to repair with Lincoln paying parts and labor only. In years four (4) and five (5), the warranty on this equipment is limited to repair with Lincoln paying for parts only.

Special limited 5 year warranty– limited oil meters, limited fluid control valves, aod (air-operated diaphragm pumps)

Lincoln warrants the 712 series control valves, 912 series lube meters, electronic lube meters (980, 981, 982 series), our universal inline digital meters (812/813 series), and our AOD pump offering to be free from defects in material and workmanship for five (5) years following the date of purchase. If either is determined to be defective by Lincoln, in its sole discretion, during the warranty period, they will be repaired or replaced, at Lincoln's discretion, without charge.

Special DEF (diesel exhaust fluid) limited warranty

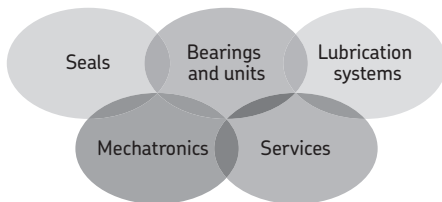
DEF products are warranted to be free from defects in material and workmanship for a period of one (1) year following the date of purchase. The following exceptions to the standard warranty period are in effect:

- **85700-30/85700-50 DEF hose reels (bare reel only),**
277251/277252 AC DEF pumps, and 277256 and 277257 DEF meters are warranted for two (2) years from date of purchase.
- **85623 DEF AOD (air operated diaphragm) pumps**
are covered under the standard five (5) year AOD pump warranty.

If either is determined to be defective by Lincoln, in its sole discretion, during the warranty period, they will be repaired or replaced, at Lincoln's discretion, without charge.

Lincoln Industrial contact information

To find Lincoln Industrial's nearest service center call the following number; customer service 314-679-4200 (international number 01-314-679-4200) or you may also use our website www.lincolnindustrial.com



The Power of Knowledge Engineering

Drawing on five areas of competence and application-specific expertise amassed over more than 100 years, SKF brings innovative solutions to OEMs and production facilities in every major industry worldwide. These five competence areas include bearings and units, seals, lubrication systems, mechatronics (combining mechanics and electronics into intelligent systems), and a wide range of services, from 3-D computer modelling to advanced condition monitoring and reliability and asset management systems. A global presence provides SKF customers uniform quality standards and worldwide product availability.

® SKF is a registered trademark of the **SKF Group**.

® Lincoln is a registered trademark of Lincoln Industrial Corp.

© SKF Group 2013

The contents of this publication are the copyright of the publisher and may not be reproduced (even extracts) unless prior written permission is granted. Every care has been taken to ensure the accuracy of the information contained in this publication but no liability can be accepted for any loss or damage whether direct, indirect or consequential arising out of the use of the information contained herein.

SKF PUB **LS/11 13606 EN** · March 2013 · Form 404248

Printed in USA.

LINCOLN

