

# Zebra® Sidewinder® Tube Skimmer Manual

## Installation Instructions

1. Remove the assembled unit from the box.
2. Mount the unit to the side of your tank (hardware is not provided), or the Diverter, if being used. The unit may be oriented in almost any direction, including upside down, as long as care is taken not to allow liquid flow to the motor.
3. Plug the unit into an appropriate outlet and let it work.

## Motor specifications

- 100/120v, 1 phase, 60/50Hz, .75LRA, 82w, .11hp, 28 rpm, fan-cooled
- 200/220v, 1 phase, 50Hz, 23 rpm, .31 LRA, 65w, .087hp, wired for use at 200/220v; uses red and white leads (or contact us for use at 220/240v; uses red and black leads, 8' 2-prong cordset)
- 110v, 60Hz, 7 rpm, .7 amps, 1 phase, 77w, .1 hp
- Non drip-proof motor
- Under normal conditions, the unit needs to be operated just a few hours per day

## Warnings

- For lifting oil from machine sumps only
- Do not immerse motor in any liquid
- Shield motor from spray
- Do not use in explosive atmosphere
- Per NEC regulations, a ground fault interrupt must be installed

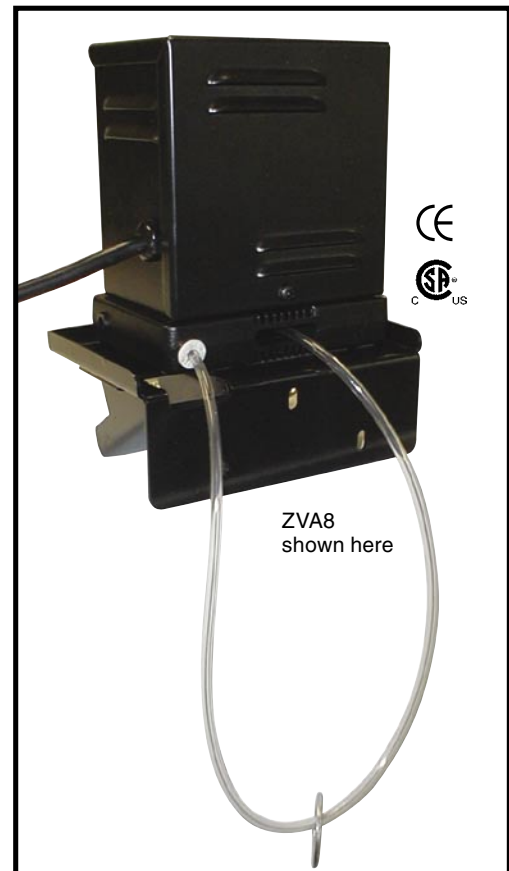
## Warranty

- All parts are warranted for a period of one year
- Orienting the Sidewinder unit in such a way as to allow liquid flow to the motor will void all warranties

## Replacement Parts

- Under normal operation, Sidewinder can last for up to five years before wear abrades the outer diameter of the tube and the depth of the drive gears
- The most common replacement item is the cartridge. These self-contained units include the tube (o-ring), drive gears, and gear case. Individual parts of this cartridge may not be purchased separately.
- Motors are available for replacement inside the motor housing.

If you have any questions or require product support,  
please contact 888-249-4855



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We reserve the right to change any  
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## Integrated Timer

### Programming

The weekly program dial shows the seven days of the week and AM/PM imprints for each day. The 24-hour dial has quarter-hour divisions and AM/PM indications.

The time switch is set by pushing the captive trippers to the outer ring position for the entire period that the load is to be turned ON, i.e. fifteen minutes for each tripper on the 24-hour dial and 2 hours for each tripper on the 7-day dial. When the tripper is pushed to the inside, the switch is in the OFF position.

### Setting Time

**To set the current time (and day of week on 7 day units), turn the minute hand clockwise. Do not set the time by rotating "outer" dial.**

Turn the minute hand clockwise until the day of the week (7-day timer) and the time of day on the outer dial is aligned with the triangle marker on the inner dial (two o'clock position).

Example for 7-day program dial Monday 10:30 AM. Turn the minute hand clockwise until Monday 10:30 AM is aligned with the triangle on the inner dial. The hour and minute hand will show exactly 10:30.

Example for 24-hour program dial 10:30 AM. Turn the minute hand clockwise until 10:30 AM is aligned with the triangle on the inner dial. The hour and the minute dial will show exactly 10:30.

### Manual Override

All MIL 72 units are available with an optional 3-way manual override (type designation "H").



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# EBRA<sup>®</sup> SKIMMERS

## Sidewinder™ Tube Skimmer Tube Replacement Instructions

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Step 1: Refer to the instructions for disassembly of the tube cartridge from the motor housing and base plate, if necessary.

Step 2: Replace the tube in the cartridge:

For Model# ZVA8 ("G")

- a. After removing the cartridge from the complete skimmer assembly, position it so the tube is facing you and the ceramic washer is on the left. Refer to Figure A.
- b. Remove four flat head screws and separate cartridge halves. Do this with caution, as the interior of the cartridge contains grease.
- c. Install new tube assembly as shown. Note the location of the ceramic scraper, positioning it so the raised writing is facing away from the cartridge.
- d. Replace upper cartridge half. Refer to Figure B.
- e. Refasten the cartridge by replacing the four screws from step 2b. Do not overtighten, using 9 in. lbs. only.
- f. Hold the assembled cartridge in one hand while pulling the tube through. Refer to Figure C. This pull test will help to verify that the tube is seated correctly within the gear drive mechanism.
- g. Reassemble the entire skimming unit. Refer to the instructions for disassembly or the picture below, right.



Figure A



Figure B



Figure C

***Please contact us if you  
need any assistance!***

