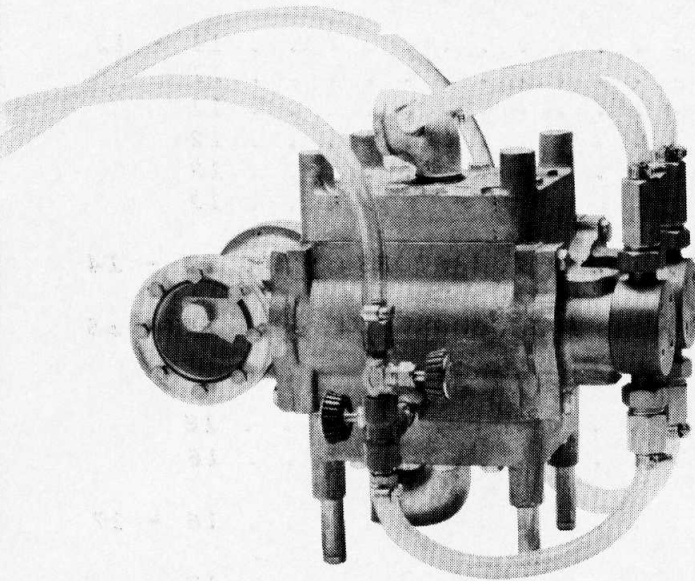




**SMITH**

**cm-2**

meaSUREmix  
liquid fertilizer  
injectors



\* **Models**

**R-3**

**R-4**

**R-6**

**R-8**

\* **Installation**

\* **Operation**

\* **Servicing**

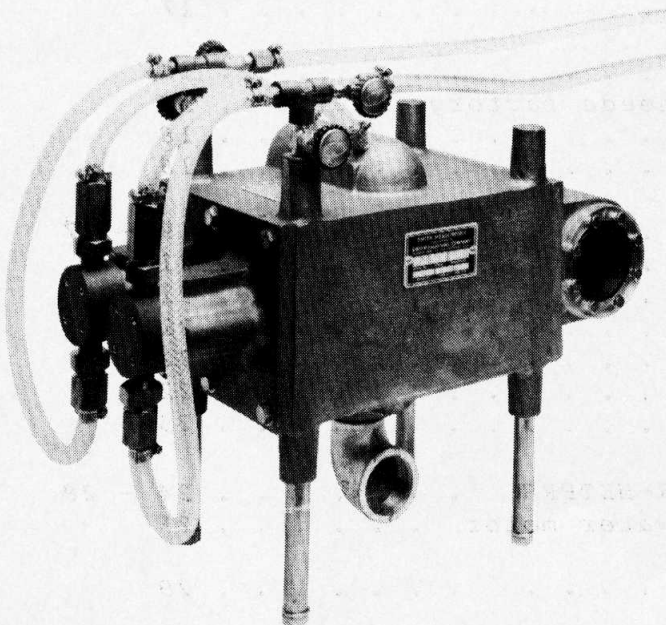


TABLE OF CONTENTS

Page No.

|                                                                |         |
|----------------------------------------------------------------|---------|
| PRELIMINARY INSTRUCTIONS . . . . .                             | 1 - 6   |
| Do you have the correct model injector . . . . .               | 1       |
| Methods of checking flow rate . . . . .                        | 1 - 2   |
| Do you have the correct option injector . . . . .              | 2       |
| Fluid table . . . . .                                          | 3       |
| How to tell what type of check valve you have . . . . .        | 4       |
| Maximum water flow rate . . . . .                              | 5       |
| Minimum water flow rate . . . . .                              | 5       |
| Choice of chemicals . . . . .                                  | 6       |
| Injection of acids . . . . .                                   | 6       |
| Proportion setting . . . . .                                   | 6       |
| PIPING ARRANGEMENT . . . . .                                   | 7 - 10  |
| Bypass piping arrangement . . . . .                            | 7       |
| Parallel piping arrangement . . . . .                          | 8 - 9   |
| Dimension drawings . . . . .                                   | 10      |
| OPERATION GUIDELINES . . . . .                                 | 11 - 12 |
| Dirty water . . . . .                                          | 11      |
| Dirty fertilizer . . . . .                                     | 11      |
| Do's and dont's . . . . .                                      | 12      |
| Pressure left in meaSUREmix . . . . .                          | 12      |
| Backflow prevention devices . . . . .                          | 12      |
| NORMAL OPERATION FOR OPTION C, W, F, AND P INJECTORS . . . . . | 13 - 14 |
| NORMAL OPERATION FOR OLD STYLE OPTION P INJECTORS . . . . .    | 14 - 15 |
| (Received before March, 1982)                                  |         |
| OPERATION AFTER PROLONGED SHUTDOWN . . . . .                   | 16      |
| NORMAL SERVICING . . . . .                                     | 16      |
| SUGGESTED O-RING CHANGE . . . . .                              | 16 - 17 |
| WARNINGS . . . . .                                             | 17      |
| Dirty water . . . . .                                          | 17      |
| Cold weather . . . . .                                         | 17      |
| Water inlet connection . . . . .                               | 17      |
| GENERAL MAINTENANCE INSTRUCTIONS . . . . .                     | 18      |
| How to tell if your injector needs factory repairs . . . . .   | 18      |
| Exchange plan . . . . .                                        | 18      |
| Cost of factory repairs . . . . .                              | 18      |
| TROUBLE SHOOTING PROCEDURES . . . . .                          | 19 - 27 |
| Removal of injector head . . . . .                             | 21      |
| Removal of o-ring . . . . .                                    | 21      |
| Placement of o-ring . . . . .                                  | 21      |
| Positioning of o-ring . . . . .                                | 22      |
| Reassembly of injector head . . . . .                          | 22      |
| Common trouble causes . . . . .                                | 23      |
| HOW TO CLEAN MEASUREMIX WATER MOTOR-METERS . . . . .           | 24 - 28 |
| Fertilizers and acids inside water motor . . . . .             | 28      |
| AVAILABLE LITERATURE . . . . .                                 | 29      |

