

# OPERATOR'S MANUAL

# NP409W01-1

INCLUDING: SPECIFICATIONS, PUMP DATA, SERVICE KITS  
INCLUDE MANUALS: Refer to list below.

RELEASED: 3-26-99  
REVISED: 1-17-11  
(REV. C)

## NP409W01-1

## WALL MOUNTED TRANSFER SYSTEM

### SERVICE KITS

- Use only genuine ARO® replacement parts to assure compatible pressure rating and longest service life.
- 61268** for repair of 65444-2-B air motor section. Service Note: The air motor Service / Parts Manual is not shipped with the pump but is included with each service kit. If this Service / Parts information is needed, request the Air Motor Operator's Manual from ARO (manual 6544X-X, PN 97999-064).
- 637010-4** for repair of 65108-4 lower pump section.  
**637011** for replacement of lower ball check.
- 7102** for repair of H254SS-120-A valve.  
**116572** for repair of H254SS-120-A valve.
- 104339** for the repair of L36341-100 lubricator.
- 104327** for repair of P39344-100 filter / regulator.

### SPECIFICATIONS

|                        |                                              |
|------------------------|----------------------------------------------|
| Model Series           | NP409W01-X                                   |
| System Type            | Air Operated, Two Ball,<br>Wall Mounted Pump |
| Basic Pump             | 650408-2-B                                   |
| Ratio                  | 9:1                                          |
| Air Motor              | 65444-2-B                                    |
| Motor Diameter         | 4-1/4" (10.8 cm)                             |
| Stroke (Double Acting) | 4" (10.2 cm)                                 |
| Air Inlet              | 1/2 - 14 n.p.t.f. (female)                   |
| Lower Pump End         | 65108-4                                      |
| Material Inlet         | 1-1/4 - 11-1/2 n.p.s.m. (female)             |
| Material Outlet        | 3/4 - 14 n.p.t.f. (female)                   |
| Dimensional Data       | See page 2.                                  |
| Weight                 | 47 lbs (21.3 kg)                             |

### PERFORMANCE

|                                        |                                |
|----------------------------------------|--------------------------------|
| Air Inlet Pressure Range               | 0 - 150 p.s.i. (0 - 10.3 bar)  |
| Fluid Pressure Range                   | 0 - 1350 p.s.i. (0 - 93.1 bar) |
| Max. Rec'd Cycles / Minute             | 75                             |
| Displacement In <sup>3</sup> Per Cycle | 11                             |
| Volume / Cycle                         | 6.09 oz. (180.20 ml)           |
| Cycles Per Gallon                      | 21                             |
| Flow @ 75 Cycles / Minute              | 3.57 g.p.m. (13.52 l.p.m.)     |
| Noise Level @ 60 p.s.i. - 40 c.p.m.①   | 80.0 db(A)②                    |

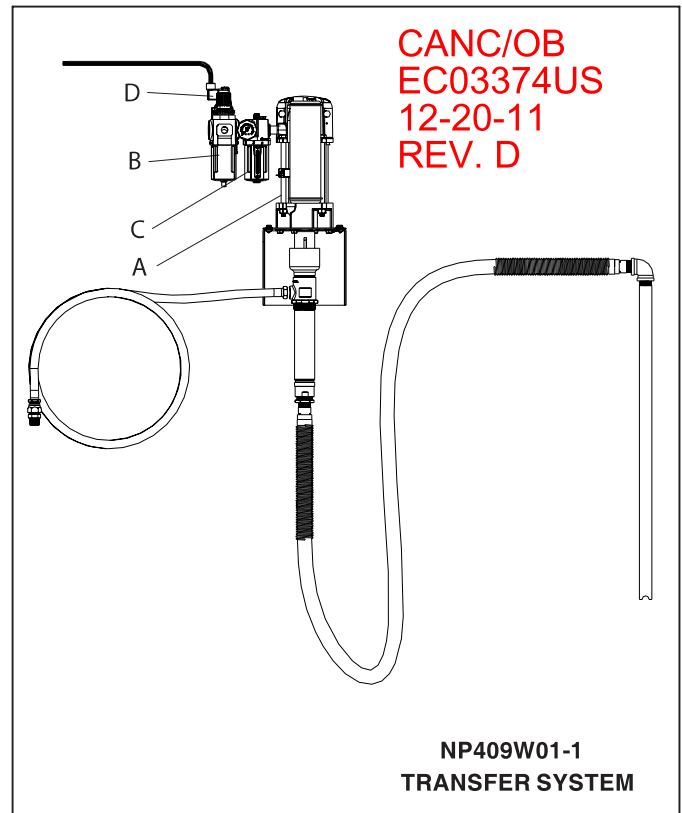
① Tested with 91790 silencer installed.

② The pump sound pressure level has been updated to an Equivalent Continuous Sound Level (L<sub>Aeq</sub>) to meet the intent of ANSI S1.13-1971, CAGI-PNEUROP S5.1 using four microphone locations.

### OPERATING AND SAFETY PRECAUTIONS

**⚠ WARNING** READ THE GENERAL INFORMATION MANUAL INCLUDED FOR OPERATING AND SAFETY PRECAUTIONS AND OTHER IMPORTANT INFORMATION.

### PUMP DATA



### MAJOR COMPONENTS

| ITEM | DESCRIPTION (Size in Inches) | QTY | PART NO.     |
|------|------------------------------|-----|--------------|
| A    | Pump Assembly                | (1) | 650408-2-B   |
| B    | Piggyback Filter / Regulator | (1) | P39344-100   |
| C    | Lubricator                   | (1) | L36341-100   |
| D    | 3-Way Valve                  | (1) | H254SS-120-A |

### GENERAL DESCRIPTION

This Wall Mounted Transfer System includes pump and mounting bracket. Intended for use in general Paint Spray applications.

#### IMPORTANT

**Operator's Manuals:** This is one of the six documents which support the various components of the system. Replacement copies are available upon request.

- ☒ NP409W01-1 MODEL OPERATOR'S MANUAL
- ☐ 650408-B PUMP (97999-022)
- ☐ GENERAL INFORMATION - PUMPING SYSTEMS (97999-636)
- ☐ 65106-X LOWER PUMP END (97999-578)
- ☐ "H" SERIES VALVES (119999-37)
- ☐ 6544X-X AIR MOTOR (97999-064)

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# ARO

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# NP409W01-1 PARTS LIST

| ITEM | DESCRIPTION (Size in Inches)           | QTY | PART NO. |
|------|----------------------------------------|-----|----------|
| 1    | Gauge (0 - 160 p.s.i.)                 | (1) | 104500   |
| 2    | Solenoid Connector                     | (1) | CDW      |
| 3    | Nipple (1/2 - 14 n.p.t. x 1-1/2" long) | (3) | Y27-54-C |
| 4    | Muffler                                | (1) | 91790-ZZ |
| 5    | Switch                                 | (1) | 104415   |
| 7    | Cap Screw (3/8" - 16 x 3/4")           | (4) | Y6-63-C  |
| 8    | Washer (7/16" i.d.)                    | (4) | Y13-6-C  |
| 9    | Lock Washer (3/8")                     | (4) | Y14-616  |

| ITEM | DESCRIPTION (Size in Inches)                | QTY | PART NO.  |
|------|---------------------------------------------|-----|-----------|
| 10   | Wall Mounting Bracket Assembly              | (1) | 66100     |
| 11   | Reducing Bushing (1-1/4 [m] x 1 [f] n.p.t.) | (1) | 95987848  |
| 12   | Suction Hose (1" i.d. x 10' long)           | (1) | 622702-10 |
| 13   | 90° Elbow (1 - 11-1/2 n.p.t.)               | (1) | Y43-16-S  |
| 14   | Suction Tube (1 - 11-1/2 n.p.t.f. - 1)      | (1) | 94415-1   |
| 15   | Hose, PTFE Lined (3/4" i.d. x 10' long)     | (1) | 623600-10 |
| 16   | 90° Street Elbow (1/8 - 27 n.p.t.)          | (1) | Y43-1-C   |

