WARNING: To ensure the drive is not unexpectedly started, turn off and lock-out or tag power source before proceeding. Failure to observe these precautions could result in bodily injury.

WARNING: Only qualified personnel familiar with hydraulic and electrical installations, the construction and operation of this equipment, and the hazards involved should install, adjust, operate, and/or service it. Read and understand this manual in its entirety before proceeding. Failure to observe this precaution could result in severe bodily injury or loss of life.

**System Parameters:**

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Motor</th>
<th>Heater &amp; Switches</th>
</tr>
</thead>
<tbody>
<tr>
<td>055860</td>
<td>120V/1 phase/60 Hz</td>
<td>N/A</td>
</tr>
<tr>
<td>058530</td>
<td>120V/1 phase/60 Hz</td>
<td>120V/1 phase/60 Hz</td>
</tr>
<tr>
<td>067669</td>
<td>460V/3 phase/60 Hz</td>
<td>120V/1 phase/60 Hz</td>
</tr>
<tr>
<td>067912</td>
<td>120V/1 phase/60 Hz</td>
<td>120V/1 phase/60 Hz</td>
</tr>
<tr>
<td>068862</td>
<td>460V/3 phase/60 Hz</td>
<td>120V/1 phase/60 Hz</td>
</tr>
</tbody>
</table>

**Operating Temperature:**
- Pump Relief valve setting: 90°F to 130°F
- Bearing Relief valve setting: 65 psi
- Design flow rate except 068862: 0.5 GPM
- Design flow 068862: 1 GPM

* Field Adjustable

**Installation:**

**Receiving & Inspection:**
1. Carefully unpack the circulating oil system. Inspect the system for any damage during shipping before lifting it off the skid.
2. Report any damage to the carrier for claims.
3. Make sure that available voltage supply is within 10% of the system voltage.
4. Check all hydraulics to ensure that nothing came loose during shipping. Tighten as needed.
5. No alterations are allowed without authorization from Dodge. Unauthorized changes void the warranty.

**Installation Instructions:**
1. Place the unit in the designated area and anchor down using the specified bolts in the arrangement drawings.
2. Make sure that there is enough space around the unit to allow for servicing.
3. Connect oil supply and return lines to the bearings. Make sure to use the sizes recommended by the manufacturer.
4. It is very important that the pipes used must be cleaned and flushed prior to installation. If the unit is not used for one month, the pipes should be cleaned again.
5. Fill the reservoir with clean oil (2 gallons for 055860 and 3 gallons for 058530, 067669, 067912 and 068862). Make sure the filler cap is placed back and tightened.

**Electrical Hook Up:**
Connect motor to the customer panel through the proper fuses, starter and overload protection using NEC and local electrical codes.

**Operating Instructions:**
1. All relief valves are preset at the factory. If other settings are required, consult Dodge Engineering.
2. Observe sight gauge 2 to ensure that oil is at proper level.
3. Turn on the power to the circulating oil system (Customer controls).
4. Make sure that the valves in the supply line to the bearings are open.
5. Jog the pump motor to see if the motor is rotating in the right direction as the arrow on top indicates.
6. Continue to jog pump motor to prime the pump.
7. Visually check the system for leaks and correct if necessary.
8. Confirm that there is flow by using the flow meters.
9. If there is no flow, check for leaks.
10. Balance the flow to the bearings using two needle valves as needed. The flows are set at .125 GPM at the factory for all models except 068862. Flow setting for 068862 is 0.4 GPM.
11. Make sure that the system pressure does not exceed 150 psi by watching the pump pressure gauge.
12. Make sure there are no leaks of any kind.
13. Turn off the pump.
14. Check oil level in the tank. The oil level will go down as the oil fills the bearing lines. If the lines are too long, additional oil may be needed to restore the proper level.
15. Once the flow to the bearings are set, the unit is ready for operation.
16. Periodically check the oil filter clog indicator.

**Maintenance**

1. Filters should be inspected and dirty elements removed. The filter should initially be replaced after 10 hours and then as needed.
2. Oil level must be monitored on a continuous basis. Check the oil level very closely in the first few hours and after that every 100 hours.
3. The switches provided with the system should protect the system against catastrophic failure; however, common sense maintenance should be practiced at all times.
4. A periodic maintenance schedule should be practiced.
5. Always use new, clean filtered oil to bring oil level up.
6. Always use clean funnels.
7. Always replace the filler cap and tighten
8. Always watch for any change in performance to avert any unscheduled shut down.
9. Always watch for leaks or noise change.

**NOTE:** Drawings provided for stocked items. Contact Baldor Dodge Engineering for drawings of other systems.
1/2 GPM COOL LUBE SYSTEM - SINGLE PHASE

PLUMBING SCHEMATIC: SEE SHEET 2

REPLACEMENT FILTER PART NO. 056728

ELECTRIC MOTOR: 1/2 HP SINGLE PHASE
115 VOLTS AC - 1725 RPM

INSTRUCTION MANUAL - CONTACT DODGE

ø9/16" x 1.00"
(4) PLACES

1/2" NPT CUSTOMER CONNECTIONS

4 " NPT CUSTOMER CONNECTIONS

BEARING RELIEF VALVE

MAIN PRESSURE GAUGE

MAIN RELIEF VALVE

CIRCOIL NAMEPLATE

DODGE LOGO

CUSTOMER ORDER NO.

ORDER NO.

DATE DRAWING NO.

APPROVED BY

DATE

DIST.

MW

MCC

058530-1

02/02/07

DAV

1/2 GPM COOL LUBE SYSTEM - SINGLE PHASE

PLUMBING SCHEMATIC: SEE SHEET 2

INSTRUCTION MANUAL - CONTACT DODGE

REPLACEMENT FILTER PART NO. 056728

ELECTRIC MOTOR: 1/2 HP SINGLE PHASE
115 VOLTS AC - 1725 RPM

ø9/16" x 1.00"
(4) PLACES

1/2" NPT CUSTOMER CONNECTIONS

4 " NPT CUSTOMER CONNECTIONS

BEARING RELIEF VALVE

MAIN PRESSURE GAUGE

MAIN RELIEF VALVE

CIRCOIL NAMEPLATE

DODGE LOGO

CUSTOMER ORDER NO.

ORDER NO.

DATE DRAWING NO.

APPROVED BY

DATE

DIST.

MW

MCC

058530-1

02/02/07

DAV
REPLACEMENT FILTER PART NO. 056728
ELECTRIC MOTOR: 1/2 HP SINGLE PHASE
115 VOLTS AC - 1725 RPM
INSTRUCTION MANUAL - CONTACT DODGE

1/2 GPM COOL LUBE SYSTEM PLUMBING SCHEMATIC - SINGLE PHASE

Baldor - Dodge
COOL LUBE - 3 PHASE 60 HZ/50HZ

PLUMBING SCHEMATIC: SEE SHEET 2
INSTRUCTION MANUAL - CONTACT DODGE
REPLACEMENT FILTER PART NO. 056728
ELECTRIC MOTOR: 1 HP THREE PHASE
- 460 VOLTS AC (60Hz) - 1750 RPM
- 400 VOLTS AC (50Hz) - 1450 RPM

INSTRUCTION MANUAL - CONTACT DODGE

DODGE ORDER # -
ITEM - QUANTITY -
PART NUMBER - 067669

CUSTOMER NAME -
CUST. ORDER # -
PRODUCT SIZE - 0.5 GPM @ 60Hz
0.4 GPM @ 50Hz
LINER TYPE -
BABBITT TYPE -
CUST. APPROVAL BY -
APPROVAL DATE -

APPROVAL DRAWING

COOL LUBE SYSTEM PLUMBING SCHEMATIC - 3 PHASE

Baldor·Dodge

DRAWING NO.
067669-2