

Centro-Matic® Integrated Pumps

All models are air-operated, positive displacement pumps delivering a maximum volume by means of a single stroke of the pump (volumes listed below). Solenoid air valves and adjustable solid-state time controls are integrated into the pump body. All pumps are designed to deliver grease to single-line injectors and include a special high volume refill fitting. Acrylic reservoirs are available in several sizes. Integrated controls feature LED indicators for “Power On”, “Pump On”, and “Alarm,” along with a membrane-type “Manual Lube” switch.



Model 85434

Model 85434 Integrated Grease Pump

| | | |
|---------------------|-------------------------|----------------------|
| Ratio: | 31:1 | |
| Power: | 120 VAC | |
| Typical System | Min. 1200 psig | 82 bar |
| Operating Pressure: | Max. 3500 psig | 240 bar |
| Maximum Output: | 1.4 in ³ | 18.7 cm ³ |
| Reservoir Capacity: | 4.5 lbs. | 1.8 kg |
| Dimensions (LxWxH): | 24.70" x 6.52" x 18.11" | 627 x 166 x 460 mm |

Model 85435 Integrated Grease Pump

Same as Model 85434 except 240 VAC.

Model 85436 Integrated Grease Pump

Same as Model 85434 except with a Ratio of 25:1 and Maximum Output of 2.15 in³ (35.2 cm³).

Model 85437 Integrated Grease Pump

Same as Model 85436 except 240 VAC.



Model 85442

Model 85442 Integrated Grease Pump

| | | |
|---------------------|------------------------|---------------------|
| Ratio: | 20:1 | |
| Power: | 120 VAC | |
| Typical System | Min. 1200 psig | 82 bar |
| Operating Pressure: | Max. 3500 psig | 240 bar |
| Maximum Output: | 0.45 in ³ | 7.4 cm ³ |
| Reservoir Capacity: | 1 lb. | 0.450 kg |
| Dimensions (LxWxH): | 5.25" x 7.24" x 12.02" | 133 x 184 x 305 mm |

Model 85443 Integrated Grease Pump

Same as Model 85442 except 240 VAC.

Model 85444 Integrated Grease Pump

| | | |
|---------------------|------------------------|---------------------|
| Ratio: | 20:1 | |
| Power: | 120 VAC | |
| Typical System | Min. 1200 psig | 82 bar |
| Operating Pressure: | Max. 3500 psig | 240 bar |
| Maximum Output: | 0.45 in ³ | 7.4 cm ³ |
| Reservoir Capacity: | 4 lbs. | 1.8 kg |
| Dimensions (LxWxH): | 5.25" x 7.24" x 20.75" | 133 x 184 x 527 mm |

Model 85445 Integrated Grease Pump

Same as Model 85444 except 240 VAC.



Model 85444

Timer and Controller Specifications

| On Time | Off Time | Alarm Contacts | Operating Temperature |
|---------------------|--------------------------------------|---------------------|----------------------------------|
| 10 sec or 30 sec | 1/2 to 30 min or 30 min to 30 hrs | 8 amps @ 250 VAC | -10°F to 150°F -23°C to 165°C |



Model 82886

Model 82886 Pump

Pump discharges lubricant on air-powered forward stroke and vents on spring-powered return stroke through built-in check/vent valve. Reservoir is translucent with spring-loaded follower. Includes filler fitting for refilling reservoir with Model 81834 or other manual pump equipped with Model 645006 coupler.

Model 83668

Same as Model 82886 except includes larger reservoir.



Model 83668

Model 82653 Bare Pump

Pump uses air for forward and return stroke but dispenses lubricant on forward stroke only. Return stroke vents lubricant pressure through included check/vent valve. Translucent reservoir has spring-loaded follower. Refill through included filler fitting using Model 81834 or other manual pump equipped with Model 645006 coupler.

Model 83834 High Volume Bare Pump

Same as Model 82653 except 25:1 ratio, 2.15 cu. in (35.2 cc) maximum output.

Model 82655 Pump with Controls

Same as Model 82653 except includes Model 84501 solid state timer and 350244 four way electric solenoid valve.

Model 83800 High Volume Pump with Controls

Same as Model 83834 except includes Model 84501 solid state timer and 350244 four way electric solenoid valve.



Model 82653

| Model | Metric Equiv. | Lubricant /Air Ratio | Max. Output | Reservoir Capacity | Reservoir Temp. Range | Air Inlet | Lube Outlet | Lubricant Oper. Press. | | Dimensions HxWxL | Air Valve Required |
|-------|---------------|----------------------|----------------------|--|-------------------------------|--------------------|--------------------|------------------------|-----------|--------------------|--------------------|
| | | | | | | | | Min. | Max. | | |
| 82886 | | 20:1 | .45 in ³ | 1 lb/.45 kg | 0°F to 150°F -18°C to 65°C | 1/4" NPTF(F) | 1/4" NPTF(F) | 1200 psig | 3500 psig | 10 3/8"x5 1/4"x6" | 3-way |
| 83668 | | | 7.4 cm ³ | 30 in ³ /492cm ³ | | | | | | 263x133x152mm | |
| 82653 | | 31:1 | 1.4 in ³ | 4 lb/1.81 kg | 0°F to 150°F -18°C to 65°C | (metric 1/4" BSPP) | (metric 1/4" BSPP) | 82 bar | 240 bar | 18 1/2"x5 1/4"x6" | 4-way |
| 82655 | | | 22.9 cm ³ | 120 in ³ / 1967 cm ³ | | | | | | 470x133x152mm | |
| 83834 | 85393 | 25:1 | 2.15 in ³ | | 0°F to 150°F -18°C to 65°C | 1/4" BSPP) | 1/4" BSPP) | 82 bar | 240 bar | 18 1/2"x5 3/4"x21" | 4-way |
| 85393 | | | 35.2 cm ³ | | | | | | | 470x146x533mm | |
| 83800 | | | | | | | | | | | |

Note: Air consumption @ 100 psi is .15 CFM per stroke.

Timer Specifications

| Cycle Time | | On Time | | Power Requirements | Ambient Operating Temp. Range |
|------------|--------|---------|----------------|----------------------------------|------------------------------------|
| Min | Max | Min | Max | | |
| 20 Sec. | 24 Hr. | 10 Sec. | 1 Min. 24 Sec. | 120 VAC, 60 hz 110 VAC, 50 hz | -10°F / -23°C to +150°F / +60°C |

Note:

Refer to System Controls section for detailed timer and solenoid operated air valve specifications.



Model 83167

Includes transparent reservoir, spring-loaded follower, vent valve assembly and filler fitting for refilling of reservoir with 81834 filler pump or other manual pump equipped with Model 645006 coupler.

| | | |
|-----------------------------------|------------------------|-----------------------|
| Model: | 83167 | |
| Lubricant/Air Ratio: | 40:1 | |
| Output/Min @ 100 PSIG Air: | 12 cu. in. | 197 cc |
| Reservoir Capacity: | 12 lb. / 5.44 kg | 360 cu. in. / 5900 cc |
| Air Inlet: | 1/8" NPTF (F) | |
| Lube Outlet: | 3/4" NPTF (F) | |
| Typical System | Min. 1200 psig | 82 bar |
| Operating Pressure: | Max. 3500 psig | 241 bar |
| Dimensions (HxWxL): | 22 1/2" x 9" x 16 1/4" | 572 x 229 x 413 mm |
| Filling Method: | 81834 Filler Pump | |
| Reservoir: | Translucent Acrylic | |

Notes: 1. Pump requires 3-way air valve. 2. Air consumption @ 100 psi is .15 CFM per cycle



Model 83599

Same as model 83167 except includes base mounting kit and metal reservoir with indicator rod for visual check of grease level. Reservoir includes spring-loaded follower.

| | | |
|-----------------------------------|-------------------------|-----------------------|
| Model: | 83599 | |
| Lubricant/Air Ratio: | 40:1 | |
| Output/Min @ 100 PSIG Air: | 12 cu. in. | 197 cc |
| Reservoir Capacity: | 12 lb. / 5.44 kg | 360 cu. in. / 5900 cc |
| Air Inlet: | 1/4" NPTF (F) | |
| Lube Outlet: | 3/4" NPTF (F) | |
| Typical System | Min. 1200 psig | 82 bar |
| Operating Pressure: | Max. 3500 psig | 241 bar |
| Dimensions (HxWxL): | 24 3/8" x 9" x 18 3/16" | 619 x 229 x 462 mm |
| Filling Method: | 81834 Filler Pump | |
| Reservoir: | Aluminum | |

Notes: 1. Pump requires 3-way air valve. 2. Air consumption @ 100 psi is .15 CFM per cycle



Model 1823

Includes 2½" air motor driven pump, vent valve assembly, pump elevator, connecting lubricant and air hoses, and control panel.

| | | |
|--|-------------------------------------|---------|
| Model: | 1823 | |
| Lubricant/Air Ratio: | 50:1 | |
| Output/Min @ 100 PSIG Air: | 30 cu. in. | 492 cc |
| Drum Size: | U.S. standard 120 lb. refinery drum | |
| Air Inlet: | ¾" NPTF (F) | |
| Lube Outlet: | ¾" NPTF (F) | |
| Typical System | Min. 1200 psig | 82 bar |
| Operating Pressure: | Max. 3500 psig | 241 bar |
| Components | Pump & Vent Assembly | 282288 |
| Included: | Controller | 85209 |
| | Pump Elevator | 83447 |
| Controller Electrical Requirements: | 120V, 60 Hz., 110 V, 50hz | |

Notes: 1. Air consumption @ 100 psi is .42 CFM per cycle.
2. Model 83371 follower plate is available as an optional accessory.



Model 282288

Same specifications as Model 1823 but does not include elevator or controller.

Model 1827 Heavy Duty Unit

Consists of PowerMaster pump, vent valve assembly with air and lubricant connecting hoses, drum cover and control panel.



| | | |
|-----------------------------------|-------------------------------------|---------|
| Model: | 1827 | |
| Lubricant/Air Ratio: | 75:1 | |
| Output/Min @ 100 PSIG Air: | 161 cu. in. | 2638 cc |
| Drum Size: | U.S. standard 400 lb. refinery drum | |
| Air Inlet: | ¾" NPTF (F) | |
| Lube Outlet: | ¾" NPTF (F) | |
| Typical System | Min. 1200 psig | 82 bar |
| Operating Pressure: | Max. 3500 psig | 241 bar |
| Components | Basic Pump | 2004 |
| Included: | Vent Valve | 85215 |
| | Controller | 85209 |
| | Drum Cover | 81675 |

Model 1828

Same as Model 1827 except includes Model 2008 pump, 85218 vent valve and Model 84034 drum cover sized for U.S. standard 120 lb. refinery drum. Includes 85209 controller.

Model 1829

Same as Model 1827 except includes Model 2010 pump (50:1 ratio, 231 cu. in./min.(3785 cc) delivery at 100 psig air). Fits U.S. standard 400 lb. refinery drum. Includes 85209 controller and 85215 vent valve.

Model 1830

Same as Model 1827 except includes Model 2011 pump (50:1 ratio, 231 cu. in./min.(3785 cc) delivery at 100 psig air). Includes 85209 controller, 85218 vent valve and 84034 drum cover sized to fit U.S. standard 120 lb. refinery drum.

