

### 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 fluid lubricants to single-line injectors and are filled via a spring-loaded filler cap and internal filter. Acrylic reservoirs are available in several sizes. Pump models 85432 and 85433 do not include a reservoir, and are designed for remote or bulk-fill oil applications (80 psi/5.4 bar maximum head pressure). Integrated controls feature LED indicators for “Power On”, “Pump On”, and “Alarm,” along with a membrane-type “Manual Lube” switch.



#### Model 85430 Integrated Fluid Pump

Ratio:	20:1	
Power:	120 VAC	
Typical System	Min. 750 psig	52 bar
Operating Pressure:	Max. 1000 psig	69 bar
Maximum Output:	2.4 in <sup>3</sup>	39.3 cm <sup>3</sup>
Reservoir Capacity:	4.5 pints	2.1 liters
Dimensions (LxWxH):	24.70" x 6.52" x 18.11"	627 x 166 x 460 mm

#### Model 85431 Integrated Fluid Pump

Same as Model 85430 except 240 VAC.

#### Model 85432 Integrated Fluid Pump

Same as Model 85430 except without reservoir.

#### Model 85433 Integrated Fluid Pump

Same as Model 85432 except 240 VAC.



#### Model 85438 Integrated Fluid Pump

Ratio:	20:1	
Power:	120 VAC	
Typical System	Min. 750 psig	52 bar
Operating Pressure:	Max. 1000 psig	69 bar
Maximum Output:	0.45 in <sup>3</sup>	7.4 cm <sup>3</sup>
Reservoir Capacity:	1.25 pints	0.6 liters
Dimensions (LxWxH):	5.25" x 7.24" x 12.02"	133 x 184 x 305 mm

#### Model 85439 Integrated Fluid Pump

Same as Model 85438 except 240 VAC.

#### Model 85440 Integrated Fluid Pump

Ratio:	20:1	
Power:	120 VAC	
Typical System	Min. 750 psig	52 bar
Operating Pressure:	Max. 1000 psig	69 bar
Maximum Output:	0.45 in <sup>3</sup>	7.4 cm <sup>3</sup>
Reservoir Capacity:	4.25 pints	2.0 liters
Dimensions (LxWxH):	5.25" x 7.24" x 20.75"	133 x 184 x 527 mm

#### Model 85441 Integrated Fluid Pump

Same as Model 85440 except 240 VAC.

### 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

# Centro-Matic® Automated Lubrication Systems

## Air-Operated (Single Stroke) Oil Pumps



Model 82885



Model 83667



Model 82676

### Model 82885

Pump discharges lubricant on air-powered forward stroke and vents on spring-powered return stroke through built-in check/vent valve. Translucent reservoir is refilled through filler cap with strainer.

### Model 83667

Same as model 82885 except includes larger reservoir.

### Model 82570

High volume pump discharges lubricant on air-powered forward stroke and vents through included check/vent valve on air-powered return stroke. Translucent reservoir is refilled through filler cap with strainer.

### Model 82573

Air operated single stroke oil pump and timer assembly. Same as model 82570 except includes model 84501 solid state timer and 350244 four-way electrical solenoid valve. Power requirements: 120 VAC, 60 Hz; 110 VAC, 50 Hz.

### Model 82676

Same as model 82570 except for use with external oil supply through 1/2" NPT(F) oil inlet (maximum head pressure 80 psi (5.5 bar)).

Model	Metric Equiv.	Lubricant /Air Ratio	Max. Output	Reservoir Capacity	Air Inlet	Lube Outlet	Lubricant Oper. Press.		Dimensions HxWxL	Air Valve Required	
							Min.	Max.			
82885	85391	20:1	.45 in <sup>3</sup> 7.4 cm <sup>3</sup>	1 1/4 pint / 6 liter 36 in <sup>3</sup> / 600cm <sup>3</sup>	1/4"	1/4"	750 psig 52 bar	1000 psig 69 bar	10 3/8" x 5 1/4" x 6" 263x133x152mm	3-way	
83667	85390		2.4 in <sup>3</sup> 39.3 cm <sup>3</sup>	4 1/2 pint / 2 liter 123 in <sup>3</sup> / 2000 cm <sup>3</sup>	(metric 1/4"	(metric 1/4"			18 1/2" x 5 1/2" x 6" 470x140x152mm		
82570	85392				Remote	(metric 1/4" BSPP)			(metric 1/4" BSPP)	17 3/4" x 5 3/4" x 18 1/4" 451x146x464mm	4-way
82573										18 1/2" x 5 3/4" x 21" 470x146x533mm	
82676											

\*\* Air consumption @ 100 psi is .15 CFM per stroke.  
Check compatibility when using synthetic oils.

### Timer Specifications for Model 82573 Only

Cycle Time		On Time	
Min	Max	Min	Max
20 Sec.	24 Hr.	10 Sec.	1 Min. 24 Sec.

**Note:**

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



### Model 283167

Includes 2½" air motor driven pump, vent valve assembly, translucent reservoir with filler cap and strainer, and 1200 psi (82 bar) safety unloader.

<b>Model:</b>	<b>283167</b>	
<b>Lubricant/Air Ratio:</b>	40:1	
<b>Output/Min @ 100 PSI Air:</b>	12 cu. in.	197 cc
<b>Reservoir Capacity:</b>	15 pint	7.1 liter
	433 cu. in.	7100 cc
<b>Air Inlet:</b>	½" NPTF (F)	
<b>Lube Outlet:</b>	¾" NPTF (F)	
<b>Typical System</b>	Min. 750 psig	52 bar
<b>Operating Pressure:</b>	Max. 1000 psig	69 bar
<b>Dimensions (HxWxL):</b>	23¼" x 9" x 16¼"	591 x 229 x 413 mm
<b>Air Valve Required:</b>	3-Way**	

\*\* Air consumption @ 100 psi is .15 CFM per stroke.

**Note:** Check compatibility when using synthetic oils.



### Model 1826

Consists of Model 2002 PowerMaster pump, Model 85217 vent valve assembly, Model 81675 drum cover, Model 85209 controller, air and lubricant connecting hoses, and 1200 psi (82 bar) safety unloader.

<b>Model:</b>	<b>1826</b>	
<b>Lubricant/Air Ratio:</b>	24:1	
<b>Output @ 75 Cycles/Min:</b>	462 cu. in.	7571 cc
<b>Drum Size:</b>	U.S. standard 55 gal. refinery drum (removable head)	
<b>Air Inlet:</b>	¾" NPTF (F)	
<b>Lube Outlet:</b>	¾" NPTF (F)	
<b>Typical System</b>	Min. 750 psig	52 bar
<b>Operating Pressure:</b>	Max. 1000 psig	69 bar
<b>Controller Electrical</b>		
<b>Requirements:</b>	120 V 60 Hz, 110V 50 Hz	

**Notes:**

1. See System Controls section for detailed controller specifications.
2. See Industrial Pumping catalog for basic pump specification, including air consumption.

### Model 201826

Same as Model 1826 except includes Model 2003 40:1 ratio PowerMaster pump. Output at 75 CPM is 277 cu. in. (4539 cc).



### Model 1848

Fully automatic assembly including pump, 220/440 volt motor, translucent reservoir, 1200 psi (82 bar) safety unloader, adjustable pressure switch and time control. Time control is adjustable for lubrication cycle frequency of 5, 10, 15, 20, 30, or 60 minutes. Solid state time delay relay (35 sec. to 240 sec.) included for connection of audible or visual alarm to signal lubrication failure due to empty reservoir or broken supply line.

<b>Model:</b>	<b>1848</b>	
<b>Output/Min:</b>	18 cu. in.	295 cc
<b>Reservoir Capacity:</b>	14.7 pint	6.96 liter
	424 cu. in.	6960cc
<b>Lube Outlet:</b>	¼" NPTF (F)	
<b>Electrical Specifications:</b>		
<b>Pump Motor</b>	220/440 VAC, 60 Hz, 3 ph	
<b>Controller Max..</b>	115 VAC, 60 Hz	
<b>Typical System</b>	Min. 750 psig	52 bar
<b>Operating Pressure:</b>	Max. 1000 psig	69 bar
<b>Dimensions (HxWxL):</b>	25 <sup>3</sup> / <sub>8</sub> " x 13 "x 19 <sup>13</sup> / <sub>16</sub> "	645 x 330 x 503 mm

**Note:** See #85520, System Controls section for controller specifications.

## Hydraulically-Operated (Single Stroke) Oil Pumps



### Model 1820

Designed for applications utilizing a remote mounted lubricant reservoir. Fluid lubricants only. Requires hydraulic flow for forward and return stroke. Pump includes lubricant and hydraulic cylinders and automatic vent valve.

<b>Model:</b>	<b>1820</b>	
<b>Lubricant/Hydraulic Ratio:</b>	5.75:1	
<b>Maximum Output:</b>	2.8 cu. in.	45.9 cc
<b>Reservoir:</b>	None	
<b>Hydraulic Inlet/Outlet:</b>	⅜" NPTF (F)	
<b>Lube Inlet:</b>	¾" NPTF (F)	
<b>Lube Outlet:</b>	⅜" NPTF (F)	
<b>Typical System Operating Pressure:</b>	Factory Set @ 2500 psi (172 bar) Max.	
<b>Dimensions (HxWxL):</b>	4" x 5 <sup>3</sup> / <sub>4</sub> " x 12"	102 x 146 x 305 mm
<b>Hydraulic Pressure</b>	Min. 450 psig	31 bar
<b>Requirement:</b>	Max. 2000 psig	138 bar

**Note:** Requires user-supplied 4-way hydraulic supply valve.