



Air Compressor



Owner's Manual

Sonny's Enterprises, Inc.
5605 Hiatus Road
Tamarac, Florida 33321
16v1



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WARNING *SAFETY REQUIREMENTS* WARNING

1. All employees must be thoroughly trained in safe operation and standard maintenance practices. All employees must review this entire manual monthly.
2. Do not enter the wash tunnel when the equipment is operating. Death or dismemberment may occur.
3. Do not wear loose fitting clothing or jewelry around moving equipment. Do not allow any part of your body or other objects (including ladders, hoses or tools) to come in contact with moving equipment. Entanglement may result causing death or dismemberment.
4. Do not leave a ladder or any other items such as wash down hoses or tools in the wash tunnel while equipment is running. Vehicle damage and injury, including death, can occur.
5. Always exercise caution when walking (never run) through the wash tunnel as there may be slippery conditions. Be careful so you do not bump into or trip over equipment.
6. Only those employees specifically instructed and trained by the location management are permitted to enter the wash tunnel to perform inspections or maintenance. At least two qualified maintenance people must be present when performing equipment repairs or preventive maintenance.
7. Do not perform any maintenance or work on equipment unless you first perform Lock-Out Safety Precautions. All electrically powered equipment must have manually operated disconnects capable of being locked in the "OFF" position. Equipment that has been "locked out" for any reason must be restarted only by the person who performed the "lock out" operation.
8. When working on any equipment that is higher than your shoulders, always use a fiberglass ladder that is in good condition.
9. Do not attempt to repair or adjust any pressurized liquid or pneumatic part, hose, pipe or fitting while that equipment is in operation.
10. Electrical connections and repairs must be performed by a Licensed Electrician Only.
11. Emergency "STOP" buttons must be well marked and their location and proper use reviewed with all personnel. Any activated "STOP" button must be reset only by the person who activated it. Clear the wash tunnel of any people, ladders, hoses, tools and other loose items before restarting the equipment. An audible device must sound to warn people that the equipment is starting.
12. Do not operate any piece of equipment that requires safety covers with those covers removed or improperly installed. Do not operate any piece of equipment if any component of that piece is suspected to be defective or malfunctioning.



Equipment Program - Manuals Air Compressor

13. Store all cleaning and washing solutions and oils in a well-ventilated area. Clean up fluid spills immediately to prevent hazardous safety conditions. Be certain to follow all safety procedures on SDS Sheets for each chemical product used.
14. All hydraulic and electric systems in the wash tunnel equipped with a torque relief or overload should be checked and set at the minimum amount that will allow for proper functionality under normal washing conditions.
15. No unauthorized people should ever be permitted in the wash tunnel or near the equipment at any time.

* * *

!! CAUTION !!

When a piece of equipment must be in operation during inspection or maintenance, one qualified technician must stay at the power disconnect switch while another qualified technician performs the inspection or maintenance.



INTRODUCTION

This Owner's Manual contains information that is vital to the successful installation, operation and maintenance of your SONNY'S vehicle washing equipment.

Please read, and understand, the full contents of this manual before installation and operation of the equipment. Keep this booklet in a location where it may be used for ongoing reference.

Should you have any questions on the operation or servicing of this equipment please contact

**TECHNICAL SERVICES DEPT.
SONNY'S ENTERPRISES INC.**

5605 Hiatus Road

TAMARAC, FLORIDA 33321

TELEPHONE: 800-327-8723 FAX: 800-495-4049

THANK YOU FOR YOUR CONFIDENCE IN SONNY'S !!!!!





Product Specifications

- 5, 7.5, 10, 15, and 20 (twin 10) horsepower compressed air producers.
- 80 and 120 gallon tanks, available in horizontal or vertical models.
- Multi-finned cylinders for cooler operation.
- Reliable high-flow valves made of Swedish steel for long life.
- Balanced aluminum alloy pistons.
- Splash-lubrication delivers long life and high performance.
- Available low oil monitor to protect compressor.
- Recommended air-cooled after-cooler to reduce moisture.
- Available constant speed operation.
- Available automatic tank drain.
- Operating voltage 208/230/460 VAC 3 Phase.

Optional Related Equipment

CHAMPION Reciprocating Air Compressors

Loaded with rugged features, these splash-lubricated compressors deliver high performance, long life, and tremendous value.

- Mounted & wired mag starter
- Cast iron pump with one piece cylinder head, no blown head gaskets
- Air-cooled after-cooler reduces discharge moisture by 65%
- Low oil level monitor stops machine & prevents starting when oil is low
- Pneumatic auto tank drain removes tank moisture
- Industrial grade vibration isolators to protect the tank from vibration
- Factory filled with ChampLub oil
- Pressure switch controlled for start/stop operation



Vertical Compressors

| Champion # | Pump | HP | Voltage* | CFM | RPM | Tank | L x W x H (in) | Air Dryer | Price |
|------------|------|-----|-------------|------|-----|---------|----------------|-----------|-------|
| VR5-8 | R15B | 5 | 208/230/460 | 17.3 | 734 | 80 gal | 35 x 27 x 75 | CRN15 | CALL |
| VR7F-8 | R15B | 7.5 | 208/230/460 | 23.1 | 990 | 80 gal | 35 x 27 x 75 | CRN25 | CALL |
| VR7-8 | R30D | 7.5 | 208/230/460 | 25.8 | 575 | 80 gal | 43 x 30 x 67 | CRN25 | CALL |
| VR10-12 | R30D | 10 | 208/230/460 | 34.8 | 740 | 120 gal | 43 x 30 x 81 | CRN35 | CALL |

Horizontal Compressors

| Champion # | Pump | HP | Voltage* | CFM | RPM | Tank | L x W x H (in) | Air Dryer | Price |
|------------|------|-----|-------------|------|-----|---------|----------------|-----------|-------|
| HR5-8 | R15B | 5 | 208/230/460 | 17.3 | 734 | 80 gal | 35 x 27 x 75 | CRN15 | CALL |
| HR7F-8 | R15B | 7.5 | 208/230/460 | 23.1 | 990 | 80 gal | 35 x 27 x 75 | CRN25 | CALL |
| HR7-8 | R30D | 7.5 | 208/230/460 | 25.8 | 575 | 80 gal | 43 x 30 x 67 | CRN25 | CALL |
| HR10-12 | R30D | 10 | 208/230/460 | 34.8 | 740 | 120 gal | 72 x 26 x 53 | CRN35 | CALL |

460 Volt Conversion Kits

| Champion # | Used On | Price |
|------------|---|-------|
| CC1047667 | Used on VR5-8 and HR5-8 - 230/3-Phase Conversion to 460/3-Phase | CALL |
| CC1047668 | Used on VR7F-8, VR10-12 and HR10-12 - 230/3-Phase Conversion to 460/3-Phase | CALL |

*Specify voltage when ordering



Refrigerated Air Dryers

- Built in separator/filter with automatic drain on 25 CFM models and larger
- 115V AC with power cord
- Controller with on/off rocker switch, power-on light and temperature indicator

CHAMPION

| Description | Price |
|---------------------------------------|-------|
| Champion Refrigerated Air Dryer CRN15 | CALL |
| Champion Refrigerated Air Dryer CRN25 | CALL |
| Champion Refrigerated Air Dryer CRN35 | CALL |
| Champion Refrigerated Air Dryer CRN50 | CALL |
| Champion Refrigerated Air Dryer CRN75 | CALL |



Equipment Program - Manuals

Air Compressor

Ingersoll Rand Air Compressor Packages

Standard & Full Package Includes:

- 100% cast iron pump
- Starter mounted & wired
- Pressure switch
- Manual drain valve
- OSHA-Approved belt guard
- Mounted inter-cooler
- High dust inlet filter
- High grade rubber vibration pads

Additionally Included on Full Package only:

- Air-cooled after-cooler with safety valve
Removes water & lowers air temperature
- Programmable auto drain 115V
Ensures water removal from tank
- Full time low level oil switch. Stops unit when low on oil
- Dual control (Start / stop or constant speed control 10HP knob)



Vertical and horizontal air compressors shown are full package.



Did You Know?

All Ingersoll Rand compressors Sonny's sells are pre-run and pre-tested with synthetic oil before shipment? We also include your first annual service kit, that, when used, will extend your warranty for an additional year!

Vertical Compressors

| FULL PACKAGE | | | | | | | | |
|--------------|------------|-----|-------------|------|---------|----------------|-----------|------------------|
| Sonny's # | IR # | HP | Voltage* | CFM | Tank | L x W x H (in) | Air Dryer | Price** |
| 40003241 | 2475N-P | 5 | 208/230/460 | 16.8 | 80 gal | 30 x 37 x 73in | D25IN | \$3423.75 |
| 40003251 | 2475N7.5-P | 7.5 | 208/230/460 | 24.3 | 80 gal | 26 x 38 x 70in | D108IN | \$3638.25 |
| 10010877 | 2475K7.5-P | 7.5 | 208/230/460 | 21.7 | 120 gal | 42 x 32 x 70in | D54in | \$4292.00 |
| 40003318 | 2545K10-P | 10 | 208/230/460 | 35.2 | 120 gal | 44 x 32 x 82in | D54in | \$5593.00 |

*Specify voltage when ordering

| STANDARD PACKAGE | | | |
|------------------|------------|----------------|------------------|
| Sonny's # | IR # | L x W x H (in) | Price** |
| 40003216 | 2475N5-V | 26 x 38 x 70in | \$3258.75 |
| 40003228 | 2475N7.5-V | 26 x 38 x 70in | \$3580.50 |
| --- | --- | --- | --- |
| 40003258 | 2545K10-V | 73 x 28 x 51in | \$4405.50 |

**** All pricing includes Start Up Kit**

Horizontal Compressors

| FULL PACKAGE | | | | | | | | |
|--------------|------------|-----|-------------|------|---------|----------------|-----------|------------------|
| Sonny's # | IR # | HP | Voltage* | CFM | Tank | L x W x H (in) | Air Dryer | Price** |
| 40003252 | 2475D5-P | 5 | 208/230/460 | 16.8 | 80 gal | 67 x 24x 47in | D25IN | \$3423.75 |
| 40003319 | 2545E10-P | 7.5 | 208/230/460 | 35.2 | 120 gal | 72 x 30 x 56in | D108IN | \$6105.00 |
| 40003353 | 7100E15-VP | 10 | 208/230/460 | 50.5 | 120 gal | 72 x 30 x 56in | D54in | \$8085.00 |

| STANDARD PACKAGE | | | |
|------------------|-----------|----------------|------------------|
| Sonny's # | IR # | L x W x H (in) | Price** |
| --- | --- | --- | --- |
| 40003259 | 2545E10-V | 73 x 28 x 51in | \$4125.00 |
| 40003317 | 7100E15-V | 72 x 29 x 57in | \$5486.25 |



Air Dryers

- Built-in wall mount bracket
- Separator and automatic drain system
- Visual water alarm indicator
- 115V AC with power cord



| Item # | Description | Price |
|----------|--|------------------|
| 40003037 | IR-D25IN AirDryer Compressed 15CFM 115V | \$877.25 |
| 40003079 | IR-D42IN AirDryer Compressed 25CFM 115V | \$1152.75 |
| 40003129 | IR-D54IN AirDryer Compressed 32CFM 115V | \$1471.75 |
| 40003215 | IR-D108IN AirDryer Compressed 64CFM 115V | \$2541.00 |



INSTALLATION

Utilities Requirements

**UTILITIES INTERCONNECTION AND THE MATERIALS REQUIRED FOR
INTERCONNECTION TO SONNY'S EQUIPMENT ARE THE RESPONSIBILITY OF THE
CUSTOMER !
PERFORM ALL TRADES WORK TO ALL APPLICABLE LOCAL AND
NATIONAL CODES !**

Electric

- The Customer's Electrician is to provide materials and install 3-phase power (208V or 230V or 460V, 60 Hz) to the air compressor electric motor through properly sized 3 pole circuit breakers and motor starters with 3 thermal overloads.

**BE CERTAIN THAT ALL ELECTRIC MOTORS ARE PROPERLY WIRED FOR THE SUPPLY
VOLTAGE BEING USED!**

Pneumatic

- The Customer's Plumber is to provide materials and install a 5/8 inch compressed air line from the Customer's Air Compressor to distribution manifold for tunnel and support equipment.

Technical Disclaimer

- Although building codes have been considered in developing all drawings, verification of site-specific conditions and compliance with federal, state and local building codes is the exclusive responsibility of the customer and/or architect and engineer.



Equipment Installation

Air Compressor Installation

Tools

1. Safety Glasses
2. Impact Wrench Set
3. 1" Hammer Drill
4. Sledge Hammer
5. Tape Measure

Consumables

1. Stainless Shims

Work Force

Two (2) persons

Time (assuming no problems)

1.00 - 2.00 hours

Installation Steps

1. Determine where the Air Compressor is to be installed, must be at least 15" from walls or other equipment that would impede servicing.
2. Sweep any debris from where the Air Compressor will sit.
3. Set the Air Compressor in place and install vibration isolators and lag to floor if required.



Adjustments and Testing

Check to make sure the Air Compressor crankcase is filled with lubricant, if not fill with the manufacturer's recommended synthetic lubricant.

If necessary air pressure switch may be adjusted to regulate the available pressure range.



GENERAL OPERATION

Each air compressor motor is started and stopped by the onboard air pressure switch. When the air pressure falls below a predetermined level the compressor will start and run until the required air pressure is reached.

A moisture drain is provided on the tank to allow operator to drain water that accumulates in the storage tank. An automatic drain feature may be installed to drain the water without operator intervention.



PREVENTIVE MAINTENANCE

DAILY

1. Check each air compressor for proper operation, listening for any unusual noises and correct the cause of any unusual vibration.
2. Check lubricant level, fill as needed.

Note: If oil consumption falls below 50 HP hours per ounce, annual maintenance needs to be performed. (Horsepower rating x hours of operation / ounces of oil used)

3. Check for oil leaks and air leaks, repair as needed.

WEEKLY

1. Inspect the air filters, and clean or replace if needed.
2. Check operation of safety/relief valves by manually activating and resetting.

MONTHLY

1. Inspect drive belts, adjust or replace as necessary.
2. Inspecting all hardware and fittings for tightness and clean thoroughly.

SEMI-ANNUALLY

1. Drain lubricant while crankcase is warm, clean sight glass if necessary and replace lubricant with manufacturer recommended synthetic lubricant.

ANNUALLY

1. Install manufacturer's maintenance kit according to instructions and inspect valves, replacing if necessary.

PARTS

PUP Filter

- A Point-of-Use Provider (PUP) is a 3-in-1 solution for the bottom of a compressed air drop. In one compact unit, the PUP is a filter, automatic drain and manifold for multiple distributions
- PUP incorporates a high efficiency 1-micron coalescing filter, which will remove solid particles, moisture, and oil contamination leaving the air clean and your system protected
- From a 1in female top entry connection, up to four outlet connections can be made to PUP. Two 3/8in ports and two 1/2in ports are positioned around the head of the unit allowing for any piping configuration



| Item # | Description | Price |
|----------|--|----------|
| 40002631 | IR-42526707 Point-of-Use Provider 1" FPT | \$221.52 |
| 10003681 | IR-38032165 O-Ring Kit for Provider PUP | 12.00 |
| 40002447 | IR-38027223 Filter Element for Provider | 110.39 |

Compressor Pump

- 100% cast iron pump
- Durable 100% continuous duty
- 175PSI
- 2-year warranty



| Item # | Description | Price |
|----------|--|-----------|
| 40003117 | IR-2475BARE Compressor Pump Only 5-7.5HP | \$1199.99 |
| 40003212 | IR-2545BARE Compressor Pump Only 10HP | 2112.50 |

Air Compressor Automatic Tank Drain

- Maximum pressure 250PSI
- Voltage @ 60Hz 110 Volts
- Inlet 1/2in MPT
- Outlet 1/2in FPT
- Adjustable drain cycles 30 sec. to 45 mins.
- Adjustable purge time (sec.) 0.5 to 10
- Ingersoll Rand universal "auto drain" keeps your air system water free; just set and forget



| Item # | Description | Price |
|----------|--|----------|
| 40002573 | IR-37995891 Auto Tank Drain Valve 110V | \$248.39 |
| 40002574 | IR-37995909 Auto Tank Drain Valve 230V | 147.00 |

Coalescing Filters

- Coalescing filters installed on your air line save energy and protect your machinery and equipment from harmful contaminants
- They remove solid particulates (down to 1.0 micron), liquid water, oil and aerosols from compressed air
- Easy change filter element with a simple twist
- Large gauge lets you easily see when to change your filter
- Maximum pressure 232PSI
- Lowest pressure drop of any filter available
- 10-year housing warranty



| Item # | Description | Price |
|----------|--|----------|
| 40002704 | IR-F711G Filter 42 SCFM 3/4in FNPT | \$296.99 |
| 40002746 | IR-F1081G Filter 64 SCFM 3/4in FNPT | 344.99 |
| 40002822 | IR-F2121G Filter 125 SCFM 1in FNPT | 472.49 |
| 10007209 | IR-88342993 Filter Element for 64 SCFM | 108.79 |

Hose Reel

- Heavy duty self-retracting
- Use for air/water applications
- Complete with 50ft of 3/8in hose



Inlet Connection: Standard inlet is 90° swivel joint with 1/2in female FPT threads.
Outlet Connection: Standard outlet is 1/2in FPT thread.
Operating Pressures & Temperatures: These reels operate at pressures to 3000PSI (207 bar) and handle product temperatures from -20° F to +225° F (-29° C to +107° C).
Rollers: All models are supplied with a four-way roller assembly.
Hose Stop: A hose stop for 1/2in hose is supplied as standard with the reel to prevent damage to rollers and nozzles and to permit adjustment of free hose length.



| Item # | Description | Price |
|----------|-------------------------------------|----------|
| 40002947 | IR-38032934 Spring Rewind Hose Reel | \$680.16 |

Start-Up Maintenance Kit

- Maintenance kit includes enough oil for two oil changes and two air filters
- Synthetic oil in 1 liter bottles
- For use in single and two-stage reciprocating air compressors



| Item # | Description | Price |
|----------|--|----------|
| 10007217 | IR-32305880 Oil & Air Filter Kit 5-7.5HP | \$120.96 |
| 10007425 | IR-32305898 Oil & Air Filter Kit 10-15HP | 138.32 |
| 40002696 | IR-38436721 Oil Synthetic 20w40 1 Qt | 26.34 |
| 10005203 | IR-32282196 Filter Inlet 4-Micron Media | 29.99 |

Equipment Program - Manuals

Air Compressor

Air Compressor Filter Housing Complete

- 1in MNPT
- Filter element #40002119



| Item # | Description | Price |
|----------|--|----------|
| 40010210 | IR-32230542 Filter Inlet for 2545 Models | \$129.59 |

Filter Element

- 10 micron
- 3in I.D. x 4-3/8in O.D. x 2-5/16in height



| Item # | Description | Price |
|----------|--|---------|
| 40010206 | IR-32170979 Filter Inlet 10-Micron Media | \$28.79 |

Vibration Pads

- 4in x 4in x 1in (set of 4)
- Reduces the amount of vibration and rattling that occurs
- Eases installation
- Prolong compressor life



| Item # | Description | Price |
|----------|--|---------|
| 40002086 | IR-32321002 Vibration Pads 4" x 4" NRC | \$33.00 |

T30 Service Kits

- Service kits include:
-Oil, filter, seals and gaskets for a single service.



| Item # | Description | Price |
|----------|-----------------------------------|----------|
| 40002705 | IR-38485330 T30 Maint Kit 5-7.5HP | \$176.39 |
| 40002747 | IR-38485298 T30 Maint Kit 10HP | 247.20 |

Air Compressor Filter Element

- 10 micron
- 3in I.D. x 4-3/8in O.D x 4-1/2in height



| Item # | Description | Price |
|----------|--|---------|
| 40002119 | IR-32012957 Air Filter Element 10 Micron | \$44.39 |

Pressure Switch Kit for Air Compressors

- Each kit includes: Pressure switch, check valve, pressure gauge and retrofit tubing
- Pressure gauge measures 0-300PSI



| Item # | Description | Used on | Price |
|----------|---|-----------|----------|
| 40010102 | IR-38471561 Pressure Switch Kit w/Gauge | 2475N5 | \$105.59 |
| 40002373 | IR-38471579 Pressure Switch Kit w/Gauge | 2475N7 | 88.00 |
| 40002260 | IR-38471611 Pressure Switch Kit w/Gauge | 2545e10FP | 91.52 |

Compressor and Temperature Switch for Air Dryer

- 115V AC 60Hz
- 1/5HP
- Refrigerant R134a
- 4.5 - 9.9 displacement (cm³)



| Item # | Description | Price |
|----------|--|----------|
| 10008092 | IR-89328231 DS25-H Compressor for Dryer | \$464.39 |
| 40002104 | IR-89327928 Temperature Switch for Dryer | 37.20 |

Two Stage Reciprocating Pump

CHAMPION

- 3 to 7-1/2HP
- Splash lubricated compressor pump
- Large intake filter elements
- (2) Multi-finned cylinders
- Balanced pistons
- Pressure relief valves
- Fan bladed flywheel
- Oil level sight glass



| Item # | Description | Price |
|----------|-------------------------------------|-----------|
| 40003127 | Champion R15BLOSC Bare Pump 2-Stage | \$1464.85 |

Two Stage Reciprocating Pump

CHAMPION

- 10 to 15HP
- Splash lubricated compressor pump
- Large intake filter elements
- (4) Multi-finned cylinders
- Balanced pistons
- Pressure relief valves
- Fan bladed flywheel
- Oil level sight glass



| Item # | Description | Price |
|----------|--|-----------|
| 40003247 | Champion R30HU 10-15HP Bare Pump 2-Stage | \$2715.94 |

Two Stage Reciprocating Pump with Reed Valves

CHAMPION

- 10 to 15HP
- Splash lubricated compressor pump
- Large intake filter elements
- Alloy steel reed valves
- (4) Multi-finned cylinders
- Balanced pistons
- Pressure relief valves
- Fan bladed flywheel
- Oil level sight glass



| Item # | Description | Price |
|----------|-----------------------------------|-----------|
| 40003235 | Champion RV-30A Bare Pump 2-Stage | \$2454.14 |

Auto Tank Drain

CHAMPION

- Automatic: operates each time compressor cycles
- No adjustments needed
- Requires no electricity
- No additional wiring, no additional costs
- Stainless steel reservoir
- Stores condensation without wasting air
- Built-in large catch sump and strainer
- Prevents valve from fouling
- Stainless and anodized aluminum construction quality – reduces corrosion
- Seals made of Teflon and Viton
- Standard valve rated at 300PSI
- Valve operates without pressure drop in air system



| Item # | Description | Price |
|----------|------------------------------------|----------|
| 40002521 | Champion CC1051171 Auto Tank Drain | \$176.12 |
| 40002575 | Champion CC1079015 Auto Tank Drain | 182.69 |

Vibration Isolators

CHAMPION

- Isolates the compressor unit from foundation or floor
- Protects unit from any out-of-level floor situation that could cause vibration and damage
- Reduces noise



| Item # | Description | Qty. | Price |
|----------|--------------------------------------|------|---------|
| 40002308 | Champion CQZ12966 Vibration Foot Pad | 4 | \$43.34 |

Magnetic Motor Starter

CHAMPION

- Rating: Nema 1
- 230V AC /3Ph



| Item # | Description | Price |
|----------|----------------------------------|----------|
| 40002670 | Champion P10378-A5 Starter 5HP | \$199.73 |
| 40002711 | Champion P10378-A10 Starter 10HP | 234.00 |

Air Filter

CHAMPION

- O.D. 4-3/8in
- Height 2-5/16in
- Pleated polyester filter with plastisol ends



| Item # | Description | Price |
|----------|-------------------------------------|--------|
| 40001682 | Champion P05050A Air Filter Element | \$5.55 |

Service Kits

CHAMPION

- Regular maintenance of compressed air equipment is vital to keeping that equipment's performance at a high quality.
- Kits include:** lubricant, oil filters, air filters and parts that are necessary to keep equipment running smoothly and avoid costly breakdowns.
- Kit Z11882 — Mineral oil, used on Model RV15 Pump
Kit Z11892 — Synthetic oil, used on Model RV15 Pump
Kit Z11883 — Mineral oil, used on Model RV30 Pump
Kit Z11893 — Synthetic oil, used on Model RV30 Pump



| Item # | Description | Price |
|----------|--|---------|
| 40011123 | Champion Compressor Service Kit Z11882 | \$39.00 |
| 40011124 | Champion Compressor Service Kit Z11892 | 69.45 |
| 40011125 | Champion Compressor Service Kit Z11883 | 55.50 |
| 40011126 | Champion Compressor Service Kit Z11893 | 112.50 |

Low Oil Level Monitor

CHAMPION

- Shuts down the unit when oil levels are below an adequate level
- Prevents the unit from restarting if oil levels are not at an adequate level



| Item # | Description | Price |
|----------|-------------------------------------|----------|
| 40002543 | Champion CC1016953 Low Level Switch | \$184.49 |

Conversion Kits

CHAMPION

- CC1047667 used on VR5-8 and HR5-8, converts 230/3 to 460/3
- CC1047668 used on VR7-F, VR10-12, HR10-12 converts 230/3 to 460/3



| Item # | Description | Price |
|----------|------------------------------------|----------|
| 40011113 | Champion CC1047667 460V Conv. Kits | \$100.50 |
| 40011114 | Champion CC1047668 460V Conv. Kits | 100.50 |

V-Belt

CHAMPION

- Belt fits models:
 - HR10-8
 - HR10-12
 - HR10-25
- (2) B81 V-Belts are required



| Item # | Description | Price |
|----------|--------------------------|---------|
| 10004771 | Champion B81 V-Belt 84in | \$19.99 |

Pressure Switch

CHAMPION

- 145 -175PSI range
- Straight through wiring
- Visible contacts - 2 pole, double throw
- Connection: Female NPT
- Corrosion resistant cover



| Item # | Description | Price |
|----------|------------------------------------|---------|
| 40002208 | Champion CC1019871 Pressure Switch | \$46.07 |

Alternator with Enclosure

CHAMPION

- Controls start-up between two compressors
- 3.63in W x 5.28in T x 3.31in D
- Rating: Nema 1
- Type: surface mount
- Metallic enclosure



| Item # | Description | Price |
|----------|--|----------|
| 40002710 | Champion CQZ12938 Alternator 460V Nema 1 | \$339.59 |

Maintenance Kits for CRN Series Air Dryer

CHAMPION

- Kit CRNMK1 is for models CRN-10 and CRN-15
- Kit CRNMK2 is for models CRN-25 and CRN-35
- Kit CRNMK3 is for model CRN-50
- Kit CRNMK13 is for model CRN-50 with Option F



| Item # | Description | Price |
|----------|---------------------------------------|---------|
| 40011127 | Champion CRNMK1 Air Dryer Maint. Kit | \$97.50 |
| 40011128 | Champion CRNMK2 Air Dryer Maint. Kit | 133.50 |
| 40011129 | Champion CRNMK3 Air Dryer Maint. Kit | 147.00 |
| 10007878 | Champion CRNMK13 Air Dryer Maint. Kit | 264.59 |

ARO-FLO Series Regulator Without Gauge

- ARO miniature series regulators are the ideal choice where a small, compact unit is required to provide accurate control of air flow
- A stainless steel valve spring is the only metallic part to come in contact with the regulated medium
- Pressure range: 0 to 140PSI (0 to 8.6 bar)
- Maximum inlet pressure – 250PSI
- Regulator ports: 1/4in Gauge ports: 1/8in



| Item # | Series | Description | Price |
|----------|--------|--|---------|
| 10004343 | 1000 | ARO Air Reg R37121-100 No Gauge 1/4" FPT | \$14.61 |

Air Flow Control Valve

- 4-stage tapered needle design – infinite control settings from full-close to full-open
- Corrosion-resistant body – made of lightweight composite material w/metallic inserts
- Threads for panel mounting – up to 3/16in thickness
- Operating pressure – 200PSI
- Temp. – 0° to 200°F
- Buna-N seals



| Item # | Description | Price |
|----------|--|---------|
| 10004798 | ARO Flow Control F02 Air Valve 1/4in FPT | \$23.23 |
| 10005134 | ARO Flow Control F03 Air Valve 3/8in FPT | \$29.44 |

Pressure Gauge

- Rear mount, non-liquid filled
- Polycarbonate lens
- 0 to 160PSI (0 to 11 Bar)
- Plastic case



| Item # | Description | Price |
|----------|--|---------|
| 10003835 | ARO Pressure Gauge 0-160PSI 1/4in Rear M | \$16.40 |

Pressure Gauge

- Rear mount, non-liquid filled
- Polycarbonate lens
- 0 to 160PSI (0 to 11 Bar)
- Steel case



| Item # | Description | Price |
|----------|------------------------------------|--------|
| 10001931 | Pressure Gauge 0-160PSI 1/8in Rear | \$2.81 |



ARO-FLO Series Regulator With Gauge

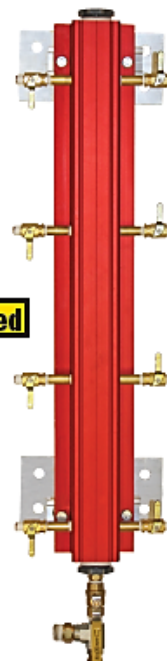
- ARO miniature series regulators are the ideal choice where a small, compact unit is required to provide accurate control of either air or water flow
- Built-in gauge
- Pressure range: 0 to 140PSI (0 to 8.6 bar)
- Maximum inlet pressure – 250PSI



| Item # | Series | Description | Price |
|----------|--------|--|---------|
| 10004361 | 1000 | ARO Air Reg w/Gauge R37121-600 1/4in FPT | \$19.99 |

SONNY'S Air Manifold

- Centralizes all air drops and electric connections, reducing cost and installation time
- 1/2in FPT inlet port
- 1/4in FPT ball valves
- Includes mounting brackets
- Anodized aluminum construction
- Brass fittings



| Item # | Description | Price |
|--------------------------------|--|----------|
| 20010887 | Air Plumbing Manifold w/ 8 Ball Valves | \$799.00 |
| Ball Valve Replacements | | |
| 10002604 | Ball Valve, 2Way Brass 1/4in F x 1/4in M | 3.73 |
| 10003407 | Ball Valve, 9312 Bronze 1/2in FPT | 10.70 |
| FRL | | |
| 10007060 | ARO Air FRL C38341-800 Modular 1/2in FPT | 118.01 |

ARO-FLO Filters

- ARO compressed air filters are designed to remove airborne solid and liquid contaminants which may plug small orifices and hinder performance, or cause excessive wear and premature equipment failure
- Feature flex drain polycarb bowl with bowl guard
- Maximum inlet pressure 150PSI
- Operating temperature range 23° to 125°F
- 5 Micron filter element



| Item # | Series | Description | Price |
|----------|--------|-------------------------------------|---------|
| 10009524 | 1000 | ARO Air Filter F35121-400 1/4in FPT | \$36.86 |
| 10005152 | 1500 | ARO Air Filter F35221-400 1/4in FPT | 33.99 |
| 10004987 | 2000 | ARO Air Filter F35331-400 3/8in FPT | 38.99 |
| 10005153 | 2000 | ARO Air Filter F35341-400 1/2in FPT | 45.99 |

ARO-FLO Regulators With Gauge

- ARO-FLO air regulators are designed for general purpose pressure control
- This regulator features a unique flush-mount pressure gauge installed
- Can be installed in modular or with pipe nipples
- Maximum inlet pressure 250PSI
- Operating temperature range 23° to 140°F



| Item # | Series | Description | Price |
|----------|--------|--|---------|
| 10005142 | 1500 | ARO Air Reg w/Gauge R37221-600 1/4in FPT | \$30.68 |
| 10005113 | 2000 | ARO Air Reg w/Gauge R37331-600 3/8in FPT | 31.07 |
| 10005143 | 2000 | ARO Air Reg w/Gauge R37341-600 1/2in FPT | 32.60 |

ARO-FLO Filter Regulator "Piggyback"

- ARO "Piggyback" filter regulators are designed to provide a quick response and accurate pressure regulation
- This filter regulator features a unique flush-mount pressure gauge installed
- Push drain polycarbonate bowl with nylon bowl guard
- Pressure Range: 0-140PSI
- Maximum Inlet Pressure: 150PSI
- Operating Temperature Range 23° to 125°F
- Filter Element: 5 Micron



| Item # | Series | Description | Price |
|----------|--------|---|---------|
| 10006204 | 1000 | ARO Air Filter/Reg P39124-600 1/4in FPT | \$62.60 |
| 10005991 | 1500 | ARO Air Filter/Reg P39224-600 1/4in FPT | 59.99 |
| 10007188 | 2000 | ARO Air Filter/Reg P39344-600 1/2in FPT | 69.99 |

ARO-FLO Lubricators

- ARO fog-type lubricators help ensure that pneumatic devices receive the required lubrication to maintain operating performance, reduce wear and prolong service life
- Maximum inlet pressure 150PSI
- Patented flow-guide variable orifice maintains constant oil-to-air ratio
- Features flex drain polycarb bowl with bowl guard



| Item # | Series | Description | Price |
|----------|--------|---|---------|
| 10005416 | 1500 | ARO Air Lubricator L36221-100 1/4in FPT | \$37.47 |
| 10005579 | 2000 | ARO Air Lubricator L36331-100 3/8in FPT | 42.29 |
| 10005577 | 2000 | ARO Air Lubricator L36341-100 1/2in FPT | 47.37 |

ARO-FLO Combo*

- The modular FRL with pipe nipple capability. Individual components have threaded ports, allowing either modular configurations or pipe nipple connections
- Push drain polycarb bowl with bowl guard
- Maximum inlet pressure: 150PSI
- Pressure range in regulator: 0 to 140PSI
- Filter element: 5 micron
- Operating temperature range: 23° to 125°F



| Item # | Series | Description | Price |
|----------|--------|--|---------|
| 10006903 | 1500 | ARO Air FRL C38221-800 Modular 1/4in FPT | \$97.75 |
| 10007059 | 2000 | ARO Air FRL C38331-800 Modular 3/8in FPT | 107.53 |
| 10007060 | 2000 | ARO Air FRL C38341-800 Modular 1/2in FPT | 118.01 |

AR20K Regulator

- Built in check valve with back flow function to allow proper relieving when mounted on the output of a 3 or 4 way solenoid valve
- 1/4in FPT ports
- 7.3PSI to 123PSI set pressure range
- 23° to 140°F (with no freezing)
- Low profile embedded gauge



| Item # | Description | Price |
|----------|--|---------|
| 10004090 | SMC AR20K-N02E-RZ-B 1/4in Reg. w/Gauge | \$20.99 |
| 10004089 | SMC AR20K-N02E-Z-B 1/4in Reg. w/Gauge | 20.99 |
| 10003761 | SMC G46-P10-N02-X30 Gauge Dial 0-150PSI | 16.49 |
| 10002947 | SMC GC3-P10AS Housing for AR20 Gauge | 7.29 |
| 10001620 | SMC GC3P-010AS Lens Cover for AR20 Gauge | 2.69 |

AW20 Filter Regulator

- 20 series filter / regulator with gauge
- 1/4in FPT ports
- 7.3PSI to 123PSI set pressure range
- 23° to 140°F (with no freezing)
- Low profile embedded gauge
- Filter element: 5 micron
- Left to right air flow
- Manual Drain
- Modular mounting bracket compatible



| Item # | Description | Price |
|----------|--|---------|
| 10005219 | SMC AW20-N02E-CZ-B Filt Reg w/Gauge 1/4" | \$33.99 |
| 10004010 | SMC C2SF-CZ Filter Bowl for Reg AW20 | 11.81 |

Air Take-up Manual Air Valve

- 1/8in orifice - 24CFM at 125PSI
- 2 or 3 way
- Normally closed only
- Positive detent in closed and open position
- Mount in any position



| Item # | Description | Price |
|----------|---------------------------------|---------|
| 10006049 | Humphrey Manual Air Valve 1/8in | \$55.58 |

AC20 1/4in Mini Modular FRL*

- Compact unit to save space
- Push button manual drain
- 23° to 140°F (with no freezing)
- Filter element: 5 micron
- 7.3PSI to 123PSI set pressure range
- Modular mounting brackets compatible



* Filter, Regulator, Lubricator.
Includes mounting brackets.

| Item # | Description | Price |
|----------|--|---------|
| 10006016 | SMC AC20-E3T001 Modular 1/4in FPT | \$54.99 |
| 10009351 | SMC Y200T-A Mounting Bracket for AC20 | 5.31 |
| 10003758 | SMC C2SL-CZ-A Lubricator Bowl FRL AC20 | 6.83 |
| 10010280 | SMC C2SF-2-A Filter Bowl for FRL AC20 | 12.60 |

AC40 1/2in Modular FRL*

- 40 series filter / regulator / lubricator with embedded gauge
- 7.3PSI to 123PSI set pressure range
- 1/2in FPT ports
- 23° to 140°F (with no freezing)
- Filter element: 5 micron
- Double wall polycarbonate Bowl w/push button manual drain
- Modular mounting brackets compatible



* Filter, Regulator, Lubricator.
Includes mounting brackets.

| Item # | Description | Price |
|----------|---|----------|
| 10007225 | SMC AC40-N04E-Z-B Modular 1/2in FPT | \$118.64 |
| 10004741 | SMC C4SF-Z Filter Bowl for FRL AC40 | 21.30 |
| 10004742 | SMC C4SL-Z Lubricator Bowl for FRL AC40 | 21.30 |

Spacer with Mounting Bracket

- Used on models: AC20, AF20, AR20, AL20 and AW20
- Attaches FRL's with tightening of screws
- Compact spacer with bracket reduces assembly space
- Easy maintenance
- O-ring prevents leakage



| Item # | Description | Price |
|----------|---------------------------------------|--------|
| 10009351 | SMC Y200T-A Mounting Bracket for AC20 | \$5.31 |

AFM30 Mist Separator

- 3/8in FPT ports
- 23° to 140°F (with no freezing)
- N/C float type auto drain with 3/8in O.D tube fittings for easy maintenance
- 7.3PSI to 145PSI set pressure range
- To remove dirt, oil, mist and to protect sensitive instrumentation
- The standard filtration is 0.3 microns with a 95% particle size collection rate



| Item # | Description | Price |
|----------|--|---------|
| 10006391 | SMC AFM30-N03C-Z-A Separator 3/8in FPT | \$64.94 |

Spacer with Mounting Bracket

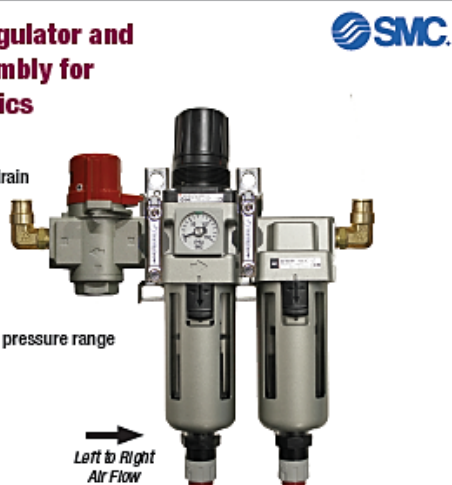
- Used on models: AC30, AF30, AR30, AL30 and AW30
- Attaches FRLs with tightening of screws
- Compact spacer with bracket reduces assembly space
- Easy maintenance
- O-ring prevents leakage
- 2 spacers needed per assembly



| Item # | Description | Price |
|----------|---------------------------------------|--------|
| 10003102 | SMC Y300T-A Mounting Bracket for AC30 | \$6.39 |

Relief Valve, Regulator and Separator Assembly for In-Bay Automatics

- 3/8in FPT ports
- N/C float type auto drain
- Fittings included
- 23° to 140°F (with no freezing)
- Polycarbonate bowl
- 7.3PSI to 123PSI set pressure range



| Item # | Description | Price |
|----------|--------------------------------------|----------|
| 20004398 | SMC BWA202147 Air Regulator Sub Assy | \$269.84 |

AW30 Filter Regulator

- 3/8in FPT ports
- 23° to 140°F (with no freezing)
- N/C float type auto drain
- Pressure range in regulator 7PSI to 123PSI
- Polycarbonate bowl
- Low profile embedded gauge



| Item # | Description | Price |
|----------|--|---------|
| 10006426 | SMC AW30-N03CE-Z-B Filt Reg w/Gauge 3/8" | \$66.60 |

AR30 Regulator Kit

- AR30-N03BG-Z-B
- 3/8in FPT ports
- 23° to 140°F (with no freezing)
- Pressure range in regulator 7PSI to 145PSI
- Round pressure gauge 1/8in port FPT
- Includes mounting bracket and nut



| Item # | Description | SCFM | Price |
|----------|--------------------------------------|------|---------|
| 10006059 | SMC AR30-N03BG-Z-B Reg w/Gauge 3/8in | 28 | \$51.91 |

Water Separator

- 1/4in-3/8in NPT NC
- N/C float type auto drain with 3/8" O.D tube fittings for easy maintenance
- Mounting bracket sold separately
- Next to air manifold
- AMG250C not to exceed 26SCFM
- AMG350C not to exceed 53SCFM



| Item # | Description | Price |
|----------|---|---------|
| 10006556 | SMC AMG250C-N02C Water Separator 1/4in | \$85.66 |
| 10006683 | SMC AMG350C-N03BC Water Separator 3/8in | 78.80 |
| 10002948 | SMC AM-BM102 Bracket Assy for Separator | 6.56 |

Residual Pressure Relief Valve

- Optional OSHA compliant lockout valve with residual pressure relief
- Epoxy coated
- Port size 3/8in FPT
- Exhaust size 1/4in FPT
- Silencer Option: AN20-N02 1/4" NPT



| Item # | Description | Price |
|----------|--|---------|
| 10005396 | SMC VHS30-N03A-Z Air Lockout Valve 3/8in | \$33.30 |
| 20000938 | SMC AN20-N02 Exhaust Muffler | 4.95 |

Quick Exhaust Valve

- Quick exhaust valves are used to quickly vent exhaust air at the cylinder ports rather than porting the exhaust all the way back through the valve. They are often used to speed up cylinder operation
- Pressure range 7PSI to 150PSI
- Port size 1/4in FPT



| Item # | Description | Price |
|----------|--|---------|
| 10004239 | SMC AQ2000-N02 Exhaust Valve 1/4in FPT | \$16.00 |

Metering Valve with Silencer

- Superior sound reducing performance
- Cylinder speed easily set
- Retainer prevents accidental loss of needle



| Item # | Description | Price |
|----------|--------------------------------------|--------|
| 40011423 | SMC, Metering Valve, 1/4" w/Silencer | \$4.94 |

Rotary Actuator, Vane Style

- Aluminum die cast construction
- 40° to 140°F
- Port size 1/8in FPT
- Double shaft standard
- Operating speed range 0.1-1.0 sec./90°
- No lubrication required



Used on SONNY'S Gator to control opening and closing of air gate.

| Item # | Description | Price |
|----------|--|----------|
| 10007410 | SMC Rotary Actuator 90° Rotation 1/8in | \$141.30 |

Mini Regulator

- Miniature series regulators are the ideal choice where a small, compact unit is required to provide accurate control of either air or water flow
- Pressure range: 0 to 100PSIG* (0 to 6.9 bar)
- Maximum inlet pressure – 300PSI (21 bar)
- Right to left flow

*Pound/square Inch (gauge)



| Item # | Description | Price |
|----------|---|---------|
| 10004447 | Norgren Regulator w/Gauge R-L 1/4in FPT | \$19.71 |

Mini FRL*

- Maximum inlet pressure – 150PSI (10 bar)
- 23° to 140°F
- Filter element: 5 micron
- Easy to disassemble and remove from the air line
- Lubricator provides air line lubrication to one or more air driven tools

* Filter, Regulator, Lubricator



| Item # | Description | SCFM | Price |
|----------|---------------------------------------|------|----------|
| 10007833 | Norgren FRL Mini 1/4in FPT 24-072-153 | 40 | \$257.15 |
| 40000243 | Norgren Filter Bowl for 24-072-153 | – | 38.78 |
| 10004747 | Norgren Lubricator Bowl 24-072-153 | – | 40.49 |

Oil Reservoir

- Maximum inlet pressure – 80PSI
- Inlet Port: 1/4in FNPT
- Outlet ports: 1/4in and 3/8in FNPT



| Item # | Description | Price |
|----------|--|---------|
| 10006690 | Oil Reservoir AOR2053-3 Maximum 80PSI | \$86.43 |
| 10005204 | Oil Reservoir Nylon Bowl 7" x 3-1/2"Dia. | 32.04 |
| 10003012 | Oil Reservoir Repair Kit 24428 | 5.94 |



WARRANTY

SONNY'S ENTERPRISES, INC. FACTORY LIMITED LIFETIME WARRANTY

Equipment manufactured by SONNY'S ENTERPRISES, INC. is warranted to be free from defect in material and workmanship. Welded metal framework and other non-moving, non-wearable fabricated metal components manufactured by SONNY'S are warranted for the life of the equipment to the original purchaser. Fabricated metal wearable surface and moving components manufactured by SONNY'S are warranted for a period of one (1) year to the original purchaser of the equipment.

All components assembled to SONNY'S equipment that are manufactured by others are warranted by the appropriate manufacturer and subject to that manufacturer's limited warranty. Contact SONNY'S for the specific information on other component manufacturer's warranty terms. All new cloth shipped with new SONNY'S equipment is warranted for a period of one (1) year or 80,000, whichever occurs first.

This warranty is not assignable or transferable. The warranty period begins the first day following installation or 30 days from the original invoice date, whichever occurs first. The Seller's liability shall be limited to repair or replacement of materials found to be defective within the warranty period. In the event of repair or replacement this limited warranty is noncumulative. The Purchaser must supply the Seller with immediate written notice when any defects are found. The Seller shall have the option of requiring the return of defective material to establish the Purchaser's claim. Neither labor nor transportation charges are included in this warranty. Transportation damage claims are to be submitted to the carrier of the damaged materials.

This warranty is based upon the Purchaser's reasonable care and maintenance of the warranted equipment. It does not apply to any equipment which has been subject to misuse, including neglect, accident or exposure to harsh chemicals or chemicals that react violently with: water, organic acids (e.g. acetic acid), inorganic acids (e.g. hydrofluoric acid), oxidizing agents (e.g. peroxides), and metals (e.g. aluminum). Chemicals corrosive to: aluminum alloys, carbon steel, and other metals. Nor does it apply to any equipment which has been repaired or altered by anyone not so authorized by SONNY'S. Further, the equipment must be properly installed with proper accuracy of all specified plumbing, electrical, and mechanical requirements. This warranty does not apply to normal wear and tear or routine maintenance components.

EXCEPT AS EXPRESSLY STATED HEREIN, SONNY'S SHALL NOT BE LIABLE FOR DAMAGES OF ANY KIND IN CONNECTION WITH THE PURCHASE, MAINTENANCE, OR USE OF THIS EQUIPMENT INCLUDING LOSS OF PROFITS AND ALL CLAIMS FOR CONSEQUENTIAL DAMAGES. THE LIMITED WARRANTY EXPRESSED HEREIN IS IN LIEU OF ALL OTHER WARRANTIES EXPRESSED OR IMPLIED. SONNY'S NEITHER ASSUMES NOR AUTHORIZES ANY PERSON TO ASSUME FOR IT ANY OTHER OBLIGATION OR LIABILITY IN CONNECTION HERewith.



Equipment Program - Manuals Air Compressor

CUSTOMER SERVICE

Please contact SONNY'S Equipment Department for installation and/or operational questions regarding this piece of equipment.

Please refer to the Parts Catalog and contact SONNY'S Customer Service Order Entry Department for any replacement parts for this piece of equipment.

You can also visit the web at www.SonnysDirect.com.

DEPARTMENT

Toll Free Main Line
Equipment Department

PHONE NUMBERS

800-327-8723
954-720-4100

FAX NUMBERS

800-495-4049
954-720-9292

Or you can email Sales at sales@SonnysDirect.com

Thank you for being a SONNY'S car wash equipment owner!

From all of us here at

