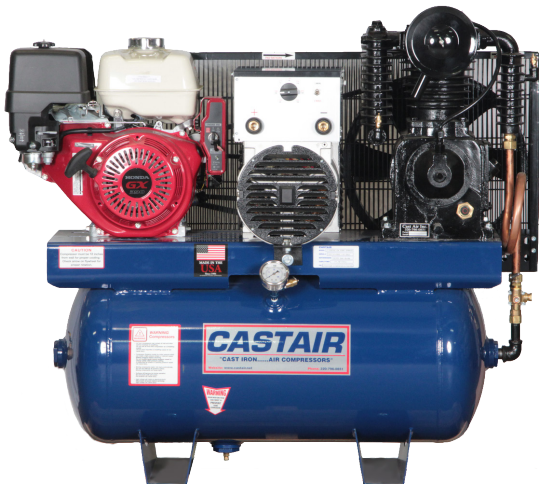
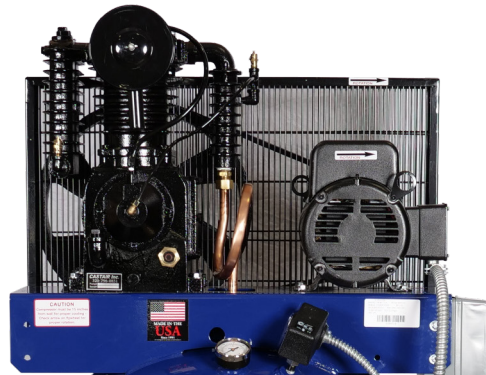


# CASTAIR

COMPRESSORS – COMPONENTS – ACCESSORIES

est. 1991



PH: 320-796-0851 / FX: 320-796-0854 / EM: sales@castairmn.com / **CASTAIR.NET**

8894 47th St. NE, Spicer, Mn 56288 / Open Monday – Friday from 8:00am – 5:00pm CT

Prices effective 8/01/23. List price schedule, call for discount.



**I518VC1-S**  
(w/ Aftercooler)



**I15312HC3-S**  
(w/ Aftercooler)



**I10312VC2-S**  
(All options)

## PUMPS

- All Cast Iron for long life and quiet operation
- Slow R.P.M. from 420 to 995 for quiet operation & long life
- Tapered roller bearings at both ends of crankshaft for superior support & less friction
- Precision steel connecting rods with automotive type rod insert bearings at crankshaft & bearings at wrist pin for long service, life, & reliability
- Disc & spring valves for easy service, higher efficiency and reliability
- Pistons have 4-rings for higher efficiency & less oil carry-over
- Centrifugal unloader for loadless start-up every time

## TANKS, MOTORS, CONTROLS

- Powder coated ASME tanks with 4 legs on verticals, channel on horizontals
- ASME safety valves
- Metal belt guard totally enclosed
- Copper discharge & unloader tube or stainless steel braided flex line
- Heavy duty 1725 R.P.M. industrial motors, with full 15% service factor or higher

# ELECTRIC - 1 PHASE 208/230V - 3 PHASE 208/230/460V - 2 STAGE - 175PSI

All units are listed with mag. starter mounted & wired. If starter not needed, call for deduction. — Adder: Tank 240gal. Hor. -vs- 120gal. Hor \$2,157

HP	Phase	Tank Gal./Type	Pump RPM	CFM @ 0-PSI	CFM @ 175 PSI	LxWxH	Wt. (lbs)	Unit Model	Price	Your Price \$
5	1	80 Vert.	767	22.0	17.5	32x24x74	600	I518VC1-S	\$4,213	
5	1	80 Horiz.	767	22.0	17.5	64x20x48	600	I518HC1-S	\$4,696	
5	1	80 Vert.	420	22.0	17.5	40x24x74	700	I518VC2-S	\$5,053	
5	1	80 Horiz.	420	22.0	17.5	64x20x46	700	I518HC2-S	\$5,540	
7.5	1	80 Vert.	895	32.4	24.8	32x24x74	655	I718VC1-S	\$4,648	
7.5	1	80 Horiz.	895	32.4	24.8	64x20x48	655	I718HC1-S	\$5,135	
7.5	1	80 Vert.	585	35.0	28.1	40x24x74	760	I718VC2-S	\$5,464	
7.5	1	80 Horiz.	585	35.0	28.1	64x20x46	760	I718HC2-S	\$5,953	
7.5	1	120 Vert.	585	35.0	28.1	44x30x75	850	I7112VC2-S	\$6,996	
7.5	1	120 Horiz.	585	35.0	28.1	69x24x50	850	I7112HC2-S	\$6,308	
10	1	80 Vert.	758	45.0	35.0	32x24x74	780	I1018VC2-S	\$6,284	
10	1	80 Horiz.	758	45.0	35.0	64x20x48	780	I1018HC2-S	\$6,776	
10	1	120 Vert.	758	45.0	35.0	44x30x75	875	I10112VC2-S	\$7,810	
10	1	120 Horiz.	758	45.0	35.0	69x24x50	875	I10112HC2-S	\$7,126	
10	1	120 Vert.	570	45.0	35.0	44x30x75	1040	I10112VC3-S	\$9,944	
10	1	120 Horiz.	570	45.0	35.0	69x24x50	1040	I10112HC3-S	\$9,260	
5	3	80 Vert.	767	22.0	17.5	32x24x74	590	I538VC1-S	\$4,280	
5	3	80 Horiz.	767	22.0	17.5	64x20x48	590	I538HC1-S	\$4,768	
5	3	80 Vert.	420	22.0	17.5	40x24x74	690	I538VC2-S	\$5,116	
5	3	80 Horiz.	420	22.0	17.5	64x20x46	690	I538HC2-S	\$5,608	
7.5	3	80 Vert.	895	32.4	24.8	32x24x74	625	I738VC1-S	\$4,568	
7.5	3	80 Horiz.	895	32.4	24.8	64x20x48	625	I738HC1-S	\$5,055	
7.5	3	80 Vert.	585	35.0	28.1	40x24x74	730	I738VC2-S	\$5,384	
7.5	3	80 Horiz.	585	35.0	28.1	64x20x46	730	I738HC2-S	\$5,874	
7.5	3	120 Vert.	585	35.0	28.1	44x30x75	820	I7312VC2-S	\$6,910	
7.5	3	120 Horiz.	585	35.0	28.1	69x24x50	820	I7312HC2-S	\$6,228	
10	3	80 Vert.	758	45.0	35.0	40x24x74	770	I1038VC2-S	\$5,756	
10	3	80 Horiz.	758	45.0	35.0	64x20x46	770	I1038HC2-S	\$6,248	
10	3	120 Vert.	758	45.0	35.0	44x30x75	860	I10312VC2-S	\$7,290	
10	3	120 Horiz.	758	45.0	35.0	69x24x50	860	I10312HC2-S	\$6,598	
10	3	120 Vert.	570	45.0	35.0	44x30x75	1025	I10312VC3-S	\$9,428	
10	3	120 Horiz.	570	45.0	35.0	69x24x50	1025	I10312HC3-S	\$8,733	
15	3	120 Vert.	898	55.0	43.6	44x30x75	980	I15312VC2-S	\$8,908	
15	3	120 Horiz.	898	55.0	43.6	69x24x50	980	I15312HC2-S	\$7,689	
15	3	120 Vert.	795	61.7	50.2	44x30x82	1185	I15312VC3-S	\$11,252	
15	3	120 Horiz.	795	61.7	50.2	69x24x62	1185	I15312HC3-S	\$10,519	
15	3	120 Horiz	480	63.1	51.6	75X29X56	1315	I15312HC4-S	\$11,686	
20	3	120 Horiz	605	92.8	76.1	75X29X56	1404	I20312HC4-S	\$12,140	
25	3	120 Horiz	710	109	90	75X29X56	1418	I25312HC4-S	\$12,405	

**INDUSTRIAL PISTON SERIES — TWO STAGE**

## OPTIONS: FACTORY MOUNTED

\*Order all asterisk options and save 10% off options

**Your Price \$** #AOC1: \$1,236 #AOC2: \$1,466 #AOC3: \$1,582 #AOC4: \$1,803

**Your Price \$**

*Low Oil Control (pg. 24)	#6304M	\$169							
*Hour Meter (pg. 24)	#HRM75M (230volt)	\$102		#HRM460M (460volt) :	\$170	#HRM50M (gas):		\$148	
Air Operated Auto Drain (pg. 21)	#ADVSM	\$184							
*Electronic Auto Drain (pg. 21)	#SDV03M	\$184							
*Dual Control (pg. 36)	#DC1 (C1):	\$142		#DC2 (C2)	\$210	#DC3(C3/C4) (N/A for AOC3/AOC4)		\$100	
*Intake Noise Silencers (pg. 23)	#SA100M (C1)	\$165		#SA100x2M (C2,C3):	\$330	NA on C4			
Belt Tensioner (pg. 29)	#184DM (5hp)	\$210		#215DM (7.5 & 10hp)	\$254	#254DM (15hp):		\$310	
Time Delay 230 volt (pg. 24)	#TD100M	\$60		Vibration Pads 4"x4"x1" (set of 4, pg. 28)		#VP1004		\$40	
*Right From the Start Kit (pg. 29)	#RFS001 (C1,C2)	\$177		#RFS002 (C3):	\$274	RFS003(C4)		\$340	
*Beltguard Aftercooler (pg. 20)	#BGAC1M - 35cfm (5,7,10hp)	\$434		#BGAC2M - 50cfm (15hp)	\$699	BGAC3M (20hp & up)		\$1209	

Belt tensioner included on C4 units. Cannot pair silencers & dual control on C3 & C4 units.

**Honda Gas Powered  
Compressors  
go wherever the job  
demands**

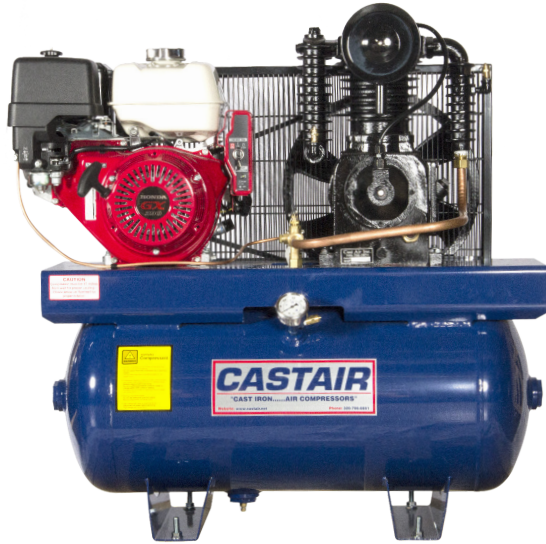
**COMPRESSOR + GENERATOR + WELDER**

**Generator – 5000 Watts / 5500 Surge Watts**

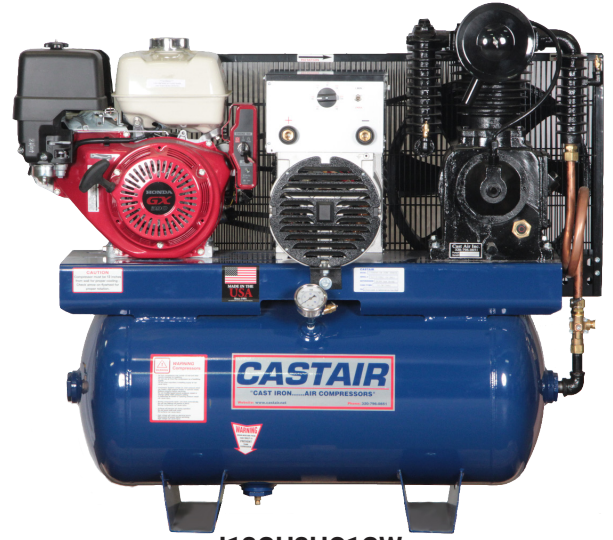
- 2 x 115 Volt / 17 Amp Outlets
- 1 x 230 Volt / 23 Amp Outlet
- Welder gen & gen unit same gen specs

**Welder – 240 Amp DC Arc**

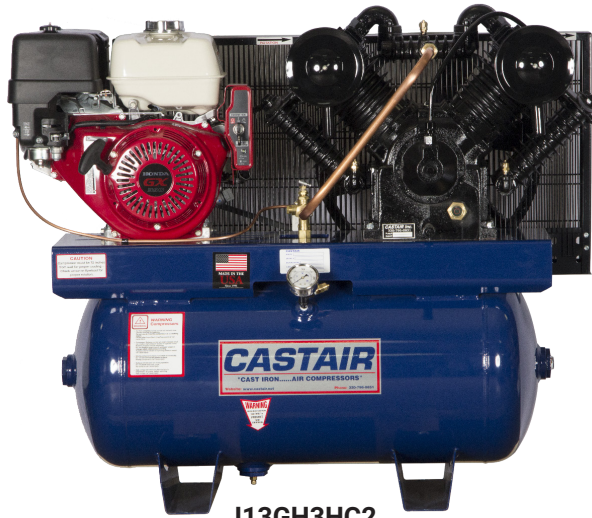
- Universal 55mm quick connects
- Duty Cycle: 130A = 100%, 180A = 60%, 240A = 35%



**I13GH3HC1**



**I13GH3HC1GW**



**I13GH3HC2**



**I20GH3HC2**

**GAS HONDA 2-STAGE WITH OIL DRAIN KIT, THROTTLE CONTROL, FUEL TANK, & 12 VOLT ALTERNATOR**

See page 1 for features and page 2 for factory installed options. 12 volt battery not included.

Honda Model	Starter Type	Tank Gal./Type	Pump RPM	CFM @ 0-PSI	CFM@ 175 PSI	LxWxH	Wt. (lbs)	Unit Model	Price	Your Price \$
GX390	Rope/elec.	30 Horiz.	995	35.0	28.1	43x22x42	550	I13GH3HC1	\$5,493	
GX390	Rope/elec.	30 Horiz.	635	37.0	30.3	48x22x40	605	I13GH3HC2	\$6,379	
GX630	Elec.	30 Horiz.	885	55.0	43.6	50x34x43	640	I20GH3HC2	\$9,815	
GX390	Rope/elec.	30 Horiz.	808	24.7	19.7	48x23x42	630	I13GH3HC1G	\$7,732	
GX390	Rope/elec.	30 Horiz.	808	24.7	19.7	48x23x42	650	I13GH3HC1GW	\$10,453	

**HONDA OIL DRAIN KITS: INCLUDED ON ABOVE UNITS**

Part #	Description	Price	Your Price \$
HON1010	GX100 - GX200	\$36	
HON1012	GX240 - GX390	\$36	
HON1420	GX630 - GX660	\$40	

# DUPLEX

## TWO STAGE - ELECTRIC - 2 PUMPS - 2 MOTORS - HORIZONTAL TANK

Up to "70 CFM" on single-phase electricity,  
plus the security of a back-up



**D10324HC2-S**

All units are listed with mag. starter mounted & wired. If starter not needed, call for deduction. Same features as Industrial Series (see pg. 1)

HP	Total HP	Phase	Pump RPM	CFM @ 0-PSI	CFM@ 175 PSI	LxWxH Dimension	Tank Gal/Type	Wt. (Lbs.)	Unit Model	Price	Your Price \$
2x5 hp	10	1	767	44	35	85x28x57	120	1110	D5112HC1-S	\$9,393	
2x5 hp	10	1	767	44	35	85x30x64	240	1460	D5124HC1-S	\$11,478	
2x5 hp	10	1	420	44	35	85x28x57	120	1300	D5112HC2-S	\$11,080	
2x5 hp	10	1	420	44	35	85x30x64	240	1650	D5124HC2-S	\$13,165	
2x7.5 hp	15	1	895	64.8	49.6	85x28x57	120	1240	D7112HC1-S	\$10,270	
2x7.5 hp	15	1	895	64.8	49.6	85x30x64	240	2140	D7124HC1-S	\$12,355	
2x7.5 hp	15	1	585	70	56.2	85x28x57	120	1430	D7112HC2-S	\$11,905	
2x7.5 hp	15	1	585	70	56.2	85x30x64	240	1780	D7124HC2-S	\$13,993	
2x10 hp	20	1	758	90	70	85x28x57	120	1470	D10112HC2-S	\$13,553	
2x10 hp	20	1	758	90	70	85x30x64	240	1820	D10124HC2-S	\$15,620	
2x10 hp	20	1	570	90	70	94x28x57	120	1800	D10112HC3-S	\$17,803	
2x10 hp	20	1	570	90	70	94x30x64	240	2150	D10124HC3-S	\$19,888	
2x5 hp	10	3	767	44	35	85x28x57	120	1080	D5312HC1-S	\$9,535	
2x5 hp	10	3	767	44	35	85x30x64	240	1430	D5324HC1-S	\$11,620	
2x5 hp	10	3	420	44	35	85x28x57	120	1270	D5312HC2-S	\$11,215	
2x5 hp	10	3	420	44	35	85x30x64	240	1620	D5324HC2-S	\$13,300	
2x7.5 hp	15	3	895	64.8	49.6	85x28x57	120	1210	D7312HC1-S	\$10,110	
2x7.5 hp	15	3	895	64.8	49.6	85x30x64	240	1560	D7324HC1-S	\$12,195	
2x7.5 hp	15	3	585	70	56.2	85x28x57	120	1400	D7312HC2-S	\$11,745	
2x7.5 hp	15	3	585	70	56.2	85x30x64	240	1750	D7324HC2-S	\$13,820	
2x10 hp	20	3	758	90	70	85x28x57	120	1410	D10312HC2-S	\$12,495	
2x10 hp	20	3	758	90	70	85x30x64	240	1760	D10324HC2-S	\$14,580	
2x10 hp	20	3	570	90	70	94x28x57	120	1740	D10312HC3-S	\$16,770	
2x10 hp	20	3	570	90	70	94x30x64	240	2190	D10324HC3-S	\$18,885	
2x15 hp	30	3	795	123.4	100.4	94x28x62	120	2005	D15312HC3-S	\$20,347	
2x15 hp	30	3	795	123.4	100.4	94x30x68	240	2355	D15324HC3-S	\$22,504	

### OPTIONS: FACTORY MOUNTED

\*Order all asterisk options and save 10% off options. 230v only #AOC1D: \$2,193 #AOC2D: \$2,668 #AOC3D: \$2,850

*Low Oil Control (pg. 24)	#6304x2M	\$338			
*Hour Meter 230 volt (pg. 24)	#HRM75x2M	\$204	#HRM460x2M (460 V)	\$340	
Alternator (pg. 24)	#ALT230M	\$743	#ALT460M	\$743	
*Electronic Auto Drain (pg. 21)	#SDV03M	\$184			
*Dual Control (pg.36) #DC3x2M(C3)\$200	#DC1x2M (C1)	\$284	#DC2x2M (C2)	\$420	
*Intake Noise Silencers (pg. 23)	#SA100x2M (C1)	\$330	#SA100x4M (C2,C3)	\$660	
Belt Tensioner (pg. 29)	#184Dx2M (5HP)	\$420	#215Dx2M (7.5-10hp)	\$508	
			#254Dx2M (15HP)	\$620	
Time Delay 230 volt (pg. 24)	#TD100M	\$60			
*Right From the Start Kit (pg. 29)	#RFS001D (10hp)	\$229	#RFS002D (15 & 20hp)	\$290	
			#RFS003D (25 & 30hp)	\$383	

*Beltguard aftercoolers (pg.19)	Installed On	CFM	Price	Your Price \$
#BGAC1x2M	10,15, & 20hp units	70	\$868	
#BGAC2x2M	25 & 30 hp units	100	\$1,398	

• **DUAL CONTROLS** not recommended for units with alternators. Cannot have silencers & dual control on C3 units.

Vibration Pads (pg. 28)	#VP1004	\$40		
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Same great features, outputs, pump RPM's and available factory mounted options as standard industrial units on a compact, easy to mount package – just without the tank! See page 1 & 2.

## FEATURES

- Cheaper than replacing an entire unit if the tank is still in working order.
- Brand X or CASTAIR, this will easily mount on any existing tank with just a few quick bolts/holes and connections.
- Cube packages include mounted and wired magnetic motor starter. Standard pump outlet with 3/4" NPT female threads for discharge connection.
- Easy to mount in service vans/trucks.
- Minimal floor space.
- Easy to service pump.
- Rigid steel frame construction.
- Self-tensioning electric motor base.



## INSTALLATION ITEMS YOU MAY NEED

- Vibration pads VP1004 (pg. 28)
- Remote tanks (pg. 22)
- Check valve (pg.26)
- JIC to NPT straights and elbows for pump discharge (pg. 28)
- Rigid copper or stainless steel flex lines available for pump discharge tube to tank (pg.28)
- Pressure switch (required for operation) (pg. 24)

HP	Phase	Pump RPM	CFM @ 0-PSI	CFM @ 175 PSI	LxWxH	Wt. (lbs)	Unit Model	Price	Your Price \$
5	1	767	22.0	17.5	27x22x41	405	I51CUC1-S	\$3,590	
5	1	420	22.0	17.5	31x24x41	505	I51CUC2-S	\$4,430	
7.5	1	895	32.4	24.8	27x24x41	440	I71CUC1-S	\$4,029	
7.5	1	585	35.0	28.1	31x24x41	540	I71CUC2-S	\$4,840	
10	1	758	45.0	35	31x24x41	570	I101CUC2-S	\$5,665	
5	3	767	22.0	17.5	27x22x41	405	I53CUC1-S	\$3,660	
5	3	420	22.0	17.5	31x24x41	505	I53CUC2-S	\$4,499	
7.5	3	895	32.4	24.8	27x22x41	440	I73CUC1-S	\$3,949	
7.5	3	585	35.0	28.1	31x24x41	540	I73CUC2-S	\$4,765	
10	3	758	45.0	35.0	31x24x41	570	I103CUC2-S	\$5,136	

**Commercial Series**

See page 13 features in price schedule

**Industrial Series**

See page 1 features in price schedule



**C513HA8**

**COMMERCIAL SERIES**

**SINGLE STAGE, ELECTRIC, 3450 RPM MOTOR, 1PHASE, 115/208/230**

HP	Phase	Tank Gal/Type	Pump RPM	CFM @ 0-PSI	CFM@ 100-PSI	LxWxH Dimension	Volt/AMPs	Wt. (Lbs.)	Unit Model	Price	Your Price \$
2	1	30 horiz.	1380	10.4	6.5	33x18x36	115/230/15/7.5	250	C213H50	\$1,830	
3.5	1	30 horiz.	1380	18.6	11.6	33x18x36	230/15	265	C3513H60	\$2,019	
5	1	30 horiz.	1088	23.7	18.3	34x18x38	230/22	300	C513HA8	\$2,538	
2	1	60 vert.	1380	10.4	6.5	30x20x64	115/230/15/7.5	285	C216V50	\$1,830	
3.5	1	60 vert.	1380	18.6	11.6	30x20x64	230/15	295	C3516V60	\$2,024	
5	1	60 vert.	1088	23.7	18.3	34x20x68	230/22	335	C516VA8	\$2,538	

Mag starter, 230 volt, mounted and wired available upon request. Required for low oil control and hour meter.

**INDUSTRIAL SERIES (30 GALLON TANKS)**

**TWO STAGE, ELECTRIC, 1725 RPM MOTOR, 1 PHASE, 208/230 VOLT OR 3 PHASE, 208/230/460**

All units are listed with mag. starter mounted & wired. If starter not needed, call for deduction.

HP	Phase	Tank Gal/Type	Pump RPM	CFM @ 0-PSI	CFM@ 100-PSI	LxWxH Dimension	Volt/AMPs	Wt. (Lbs.)	Unit Model	Price	Your Price \$
5	1	30 horiz.	767	22.0	17.5	46x20x43	230/24	500	I 513HC1-S	\$3,991	
5	1	30 horiz.	420	22.0	17.5	46x20x43	230/24	600	I 513HC2-S	\$4,834	
7.5	1	30 horiz.	895	32.4	24.8	46x20x43	230/36	530	I 713HC1-S	\$4,429	
7.5	1	30 horiz.	585	35.0	28.1	46x20x43	230/36	625	I 713HC2-S	\$5,247	
10	1	30 horiz.	758	45.0	35.0	46x20x43	230/460/46	650	I 1013HC2-S	\$6,070	
5	3	30 horiz.	767	22.0	17.5	46x20x43	230/460/15/7	500	I 533HC1-S	\$4,061	
5	3	30 horiz.	420	22.0	17.5	46x20x43	230/460/15/7	600	I 533HC2-S	\$4,901	
7.5	3	30 horiz.	895	32.4	24.8	46x20x43	230/460/23/11	530	I 733HC1-S	\$4,349	
7.5	3	30 horiz.	585	35.0	28.1	46x20x43	230/460/23/11	615	I 733HC2-S	\$5,167	
10	3	30 horiz.	758	45.0	35.0	46x20x43	230/460/30/15	640	I 1033HC2-S	\$5,542	

**OPTIONS: FACTORY MOUNTED – ALL UNITS**

		Your Price \$	
Low oil control (pg.24)	#6304M	\$169	
Hour meter (pg.24)	#HRM75M 230volt	\$102	
Hour meter (pg.24)	#HRM460M 460volt	\$170	
Auto drain (pg.21)	#ADVSM air operated	\$184	
Auto drain (pg.21)	#SDV03M electronic	\$184	
Dual control (pg.36)	#DC1(C1)	\$142	
Dual control (pg.36)	#DC2(C2)	\$210	

		Your Price \$	
Intake noise silencers (pg.23)	#SA100M (C1)	\$165	
Intake noise silencers (pg.23)	#SA100x2M (C2, A8)	\$330	
Belt tensioner (pg.29)	#184DM (5HP)	\$210	
Belt tensioner (pg.29)	#215DM (7.5&10HP)	\$254	
Time delay (pg.24)	#TD100M	\$60	
Right from the start kit (pg.29)	#RFS001	\$177	
Beltguard aftercooler (pg.20)	#BGAC1M	\$434	

# ROTARY SCREW

**100% DUTY CYCLE**

2 year warranty on air end,  
electric motor & tank

## INSTALLATION

- Quality name brand off the shelf magnetic starter & controls, mounted and wired. Just connect power.
- Self contained on a USA made ASME Tank, eliminates a water separator and plumbing to a separate tank.

## OPERATION

- One solenoid operates AIR END, no computers.
- Easy to read pressure and temperature gauges standard.
- High pressure and dual high temperature shut down standard.
- Factory filled with 4000 hours or one year synthetic lubricant.
- Can be ordered with three pressure ranges – 135, 150 or 175 psi. (135 psi standard.)
- 10 minute shut down timer standard, saves electricity when air is not required.
- No lockout codes – like competition brands

## MAINTENANCE

- Built in air/oil separator with spin on filter.
- Hour meter standard, for easy record keeping.
- Off shelf V-belts with adjustable belt tensioner standard.
- Spin on oil filter, automotive type paper element air filter.
- Air/oil lines are off shelf copper piping.
- Air cooled aftercooler/oil cooler standard, can easily be removed for cleaning.
- Heavy duty off shelf Industrial 1725RPM motors, with full 15% service factor or higher.
- 2-year warranty on air end, electric motor & tank.



**R1038VP75-230**



# The most user friendly Rotary Screw compressors to install, operate and maintain. As simple as power in, air out.

## CASTAIR ROTARY SCREW COMPRESSOR

100% duty cycle 135 PSI standard. Call for pricing on 40hp & above. 230 volt standard. For 460 volt, add \$235.

HP	Phase	Tank Gal/Type	CFM @ 100 PSI	Dimension LxWxH	Wt. (lbs)	Unit Model	Price	Your Price \$
5	1	80 vert.	20	34x26x70	480	R518VP75	\$10,788	
5	1	80 horiz.	20	64x32x44	480	R518HP75	\$11,285	
7.5	1	80 vert.	31	34x26x70	555	R718VP75	\$11,375	
7.5	1	80 horiz.	31	64x32x44	555	R718HP75	\$11,872	
10	1	80 vert.	40	34x26x70	565	R1018VP75	\$11,610	
10	1	80 horiz.	40	64x32x44	565	R1018HP75	\$12,107	
10	1	120 vert.	40	44x32x73	660	R10112VP75	\$13,216	
10	1	120 horiz.	40	69x33x55	660	R10112HP75	\$12,483	
5	3	80 vert.	20	34x26x70	470	R538VP75	\$10,788	
5	3	80 horiz.	20	64x32x44	470	R538HP75	\$11,285	
7.5	3	80 vert.	31	34x26x70	546	R738VP75	\$10,923	
7.5	3	80 horiz.	31	64x32x44	546	R738HP75	\$11,420	
10	3	80 vert.	40	34x26x70	585	R1038VP75	\$11,068	
10	3	80 horiz.	40	64x32x44	585	R1038HP75	\$11,565	
10	3	120 vert.	40	44x32x73	645	R10312VP75	\$12,674	
10	3	120 horiz.	40	69x33x55	645	R10312HP75	\$11,941	
15	3	120 vert.	52	44x32x73	765	R15312VP75	\$14,346	
15	3	120 horiz.	52	69x33x55	765	R15312HP75	\$13,613	
15	3	120 vert.	58	44x32x73	930	R15312VG30	\$15,449	
15	3	120 horiz.	58	69x33x55	930	R15312HG30	\$14,716	
20	3	120 vert.	80	44x32x73	930	R20312VG30	\$16,201	
20	3	120 horiz.	80	69x33x55	930	R20312HG30	\$15,468	
25	3	120 vert.	105	44x32x73	1045	R25312VG30	\$17,123	
25	3	120 horiz.	105	69x33x55	1045	R25312HG30	\$16,390	
30	3	120 vert.	130	44x32x73	1065	R30312VG30	\$17,773	
30	3	120 horiz.	130	69x39x55	1065	R30312HG30	\$17,000	

### OPTIONS: FACTORY MOUNTED

Your Price \$

5-30hp 230 volt standard	460 volt	add \$235	
Electronic auto tank drain (pg. 21)	#SDV03M	\$184	
4"x4"x1" vibration pads (set of 4, pg. 28)	#VP1004	\$40	

### BALL VALVES FULL FLOW

HP	Part #	Dim.	Price	Your Price \$
5 - 10	BV75	3/4"	\$28	
15 - 20	BV100	1"	\$48	
25 - 40	BV125	1.25"	\$68	
50 - 60	BV150	1.50"	\$96	

### METAL FLEX HOSE (pg. 28) all are 18" length

Part #	Dimension	Price	Your Price \$
VA075	3/4"NPT x 18"	\$70	
VA100	1"NPT x 18"	\$118	
VA125	1.25" NPT x 18"	\$121	
VA150	1.50" NPT x 18"	\$132	

### PREVENTATIVE MAINTENANCE KITS

2-air filters, 4-oil filters, 1-separator filter, 5-gallons synthetic cast-lube oil – **Save 10% when purchased as a kit**

Part #	Preventative Maint. Kit for:	HP	Price	Your Price \$
MKP75	P75 air end	5 - 15	\$794	
MKD3-4	D3, D31, & D4 air end	5 - 10	\$713	
MKD6	D6 air end	15 - 20	\$702	
MKD62	D62 air end	15 - 25	\$832	
MKG11	G11 air end	5 - 15	\$742	
MKG30R	G30 air end	15 - 30	\$803	
MKD10	D10 air end	25 - 40	\$887	
MKD16	D16 air end	50 - 60	\$830	

### MAINTENANCE FILTERS

Part #	Description	Price	Your Price \$
20DP	Air filter P75	\$28	
RAFD3-4	Air filter D3, D31 & D4 paper (ID: 2 7/8", OD: 4 5/8", HGT: 2 7/16")	\$25	
RAFD6-62	Air filter D6 & D62 paper (ID: 4 3/4", OD: 6 1/8", HGT: 2 7/8")	\$25	
RAFD10	Air filter D10 paper (ID: 6 3/8", OD: 9 1/2", HGT: 5")	\$55	
RAFD16	Air filter D16 paper (ID: 6 3/8", OD: 9 1/2", HGT: 7 7/8")	\$65	
RAFG11	Air filter G11 paper (ID: 2 5/8", OD: 3 7/8", HGT: 3 1/8")	\$41	
32DP	Air filter G30 paper (ID: 5 3/4", OD: 9 1/4", HGT: 5 3/16")	\$50	
ROFD3-4-G11	Oil filter D3, D31, D4, G11 spin on	\$60	
ROFD6	Oil filter D6 spin on	\$57	
ROFD62-P75	Oil filter D62 / P75 spin on	\$81	
ROFD10	Oil filter D10 spin on	\$81	
ROFD16-G30	Oil filter D16, G30 spin on	\$60	
RSFD3-4-G11-P75	Separator filter D3, D31, D4, D6, P75 & G11 spin on	\$128	
RSFD62	Separator filter D62 spin on	\$176	
RSFD10-16-G30	Separator filter D10, D16, G30 spin on	\$178	

# ROTARY-PISTON

THE BEST OF BOTH WORLDS + THE SECURITY OF A BACKUP



These “hybrid” compressors offer the durability and 100% duty cycle of a rotary screw, together with the intermittent demand and energy savings of a piston. Under normal operation, the rotary runs continuously, as they are designed to, and the piston automatically runs intermittently when the rotary cannot keep up. If no air is required for 10 minutes, the rotary will also turn off and remain in standby mode until air is required again, providing a seamless supply of air while conserving electricity.

- During periods when air demand is light, you can operate the piston only, again conserving electricity, all with the added peace of mind of having two separate units that can be operated individually ensuring you will never be without air.
- Up to 60 total horse-power available, delivering 260 CFM @ 100 PSI, maximum pressure up to 175 PSI.
- Sizing guide: Determine the CFM required under normal operation and size the rotary to supply this CFM. Then determine the peak CFM required and size the piston to supply this additional CFM.
- Pricing: Add together the cost of the two units with 80-gallon horizontal tanks for a 120-gallon horizontal system or add together the cost of the two units with 120-gallon vertical tanks for a 240-gallon horizontal system.
- Also applies to Rotary Duplexes. Rotary Duplexes available, priced the same.

**Contact the factory to help you custom design a system that best suits your application.**



R31BMP50



R313HP50

## FEATURES

- **100% Duty Cycle**
- Very quiet, only 65 dB
- High pressure and high temperature shut down system
- Low temperature safety system, unit will not turn off and go into standby until unit is above 120 degrees F
- 3-phase units have a safety device that protects the unit from incorrect rotation
- 3450 RPM direct drive, no belt maintenance
- Shut down timer, programmable from 30 seconds to 4 minutes. Saves electricity when air is not needed
- Hour meter standard, for easy record keeping
- Spin-on type oil and separator filters
- Factory filled with 4000 hours or 1-year synthetic lubricant
- Dual pressure gauges on tank and compressor unit
- 1-year warranty

## FACTORY SET 105-135 PSI

HP	Phase/Volt	Tank Gal/Type	CFM@145 max PSI	LxWxH	Wt. (lbs)	Unit Model	Price	Your Price \$
3	1/230	.7 Tubular	10.2	27x19x15	105	R31BMP50	\$5,143	
4	3/230	.7 Tubular	13.4	27x19x15	105	R43BMP60-230	\$5,714	
4	3/460	.7 Tubular	13.4	27x19x15	105	R43BMP60-460	\$5,714	
3	1/230	30 Hor.	10.2	34x19x38	255	R313HP50	\$6,364	
4	3/230	30 Hor.	13.4	34x19x38	255	R433HP60-230	\$6,961	
4	3/460	30 Hor.	13.4	34x19x38	255	R433HP60-460	\$6,961	

## OPTIONS

Your Price \$

Auto Drain Electronic Mtd. (pg.21)	#SDV03M	\$184	
Ball Valve 3/4" NPT (pg.28)	#BV75	\$28	
Metal Flex Hose 3/4" NPT x 18" (pg.28)	#VA075	\$70	
Vibration Pads 4x4x1 (Set of 4) (pg.28)	#VP1004	\$40	
Rotary air filter P50-60 (pg.10)	#RAFP50-60	\$52	
Rotary oil filter P50-60 (pg.10)	#ROFP50-60	\$50	
Rotary separator filter P50-60 (pg.10)	#RSFP50-60	\$187	
1-gallon synthetic cast-lube oil (pg.28)	#GA4000	\$86	
* Preventative Maintenance Kit (pg.10)	#MKP50-60	\$519	

\*Kit includes: 2 air, 4 oil, 1 separator and 1-gallon synthetic cast-lube oil. **Save 10% when purchased as a kit**

Reduce air compressor noise while providing a clean, safe, temperature controlled environment, extending your unit's life and improving your working conditions. Buy it once, use it for a lifetime with "ANY BRAND" vertical air compressor, now try that with a brand-x enclosure that is disposed of when the unit wears out.



## FEATURES

- Reduce noise levels by up to 20 dB (dependent on horsepower)
- All four doors can be easily removed within minutes for easy maintenance
- Control panel mounting pad for electric supply in, air supply out, and monitoring gauges
- Thermostat controlled exhaust fan only runs when needed, conserving energy
- Proudly made in the USA by CASTAIR
- **Installation is free** when bought with a new unit, however you must purchase the proper size stainless steel flex-hose, ball valve, and vibration pads

Part #	HP Range	LxWxH	Wt. (lbs)	Price	Your Price \$
UNE-5-15	5 to 15	51x51x97	685	\$2640	
UNE-20-25	20 to 25	51x51x97	705	\$2,920	

**SINGLE STAGE 125PSI – ELECTRIC 1725 RPM – DIRECT DRIVE – OIL LUBED (PD1006 OIL LESS)**

HP	Voltage PH/AMPS	Tank Gal/Type	C.F.M. @ 0-PSI	C.F.M. @ 100 PSI	Pump RPM	LxWxH Dimension	Wt. Shipped	Unit Model	Price	Your Price \$
3/4	12v/46A	1.5 Port.	3.3	1.4	3000	20x9x18	31	PD1006	\$537	
1.5	115/1/12	8/ Port.	9.9	4.6	1725	24x14x25	75	D1518P20	\$614	
1.5	115/1/12	4/ Twin Stack	9.9	4.6	1725	19x19x19	75	D1514T20	\$672	

**FEATURES**

- Regulator w/gauge mounted & quick coupler
- Up to 10 times the life of oil-less units
- Fan cooled thermal overload protected motor
- Filter/silencers provide clean air and quiet operation
- Heavy duty pressure switch with on/off control & copper bleeder tube
- Heavy duty oil lubricated with Cast Iron sleeve pump for long life \*PD1006 oil-less
- Finned copper discharge tube for strength & increased heat dissipation
- ASME-safety valve installed, direct drive unit tanks are non-ASME
- With independent connecting rod, wrist pin, & a real piston w/3-rings



**D1518P20**



**D1514T20**

**SINGLE STAGE 125PSI – GAS ENGINE & ELECTRIC MOTOR 1725 RPM – BELT DRIVE – OIL LUBED**

Engine Model	Engine Make	Tank Gal/Type	C.F.M. @ 0-PSI	C.F.M. @ 100 PSI	Pump RPM	LxWxH Dimension	Wt. Shipped	Unit Model	Price	Your Price \$
GX160	Honda	8/ twin tank	18.6	11.6	1380	38x18x26	210	PUK5508G	\$1,958	
GX160	Honda	20/ portable	18.6	11.6	1380	33x18x33	250	PUK5520G	\$1,979	
GX270	Honda	8/ twin tank	23.9	18.6	1380	42x18x28	265	PUK9008G	\$2,960	
2 Elec.	115/1/15	8 twin tank	10.4	6.5	1380	38x18x26	150	C218T50U	\$1,239	

**FEATURES**

- Paper filter/silencers provides clean air and quiet operation
- Smooth reliable Honda engines with throttle control
- Finned copper discharge tube for strength & increased heat dissipation
- With independent connecting rod, wrist pin, and 3 piston rings
- Easy to read sight glass to insure proper oil level at a glance
- Gas units have head unloaders-VS-dump valves for better cooling & less load on engine in unloaded mode
- Electric units have dual controls for start/stop or continuous run
- Ball bearings at both ends of crankshaft for less friction
- Powder coated ASME tank & safety valve installed
- V-Cylinder design for 360 deg. cooling & long life
- Copper discharge line for increased heat dissipation.



**PUK5508G**



**PUK9008G**



C513HA8



C516VA8



C518VC1

## ALL GARAGE & COMMERCIAL SERIES PUMPS FEATURE:

- Slow R.P.M. oil lubed CAST IRON belt driven pumps for quiet operation & long life.
- Automotive type filters/silencers with paper element provide clean intake air & quiet operation.
- Easy to read sight glass to insure proper oil level at a glance.

## ALL SINGLE STAGE PUMPS FEATURE:

- Smooth running v-twins for 360 deg. cooling around both cylinders (G3516VS75 is an inline twin).
- Main bearings are automotive type ball bearings for superior crankshaft support.
- Bleeder pressure switch for load-less starts.

## ALL COMMERCIAL SERIES PUMPS FEATURE:

- Precision steel connecting rods with automotive type rod insert bearings at crankshaft & bearings at wrist pin for long service, life, & reliability.
- Disc & spring valves for easy service, higher efficiency and reliability.
- Pistons have 4-rings for higher efficiency & less oil carry-over.

## ALL TWO STAGE PUMPS FEATURE:

- Tapered roller bearings at both ends of crankshaft for superior support & less friction.
- Mechanical centrifugal unloader for loadless start-up every time.

## ALL GARAGE & COMMERCIAL SERIES UNITS FEATURE:

- Powder coated ASME-tanks.
- Four feet on all stationary models & rigid metal belt guards. Except G3516VS75 has 3-feet & plastic guard.
- Copper or stainless steel flex line discharge & unloader tube for strength & increased heat dissipation.
- G212P50 & G15115VP30 have a mounted regulator with gauge & quick coupler.
- Single stage factory set to shut off at 125 PSI. \*Two stage factory set to shut off at 175 PSI.



**G15115VP30**



**G212P50**



**G3516VS75**

**GARAGE SERIES - ELECTRIC**

1 PHASE - MOTOR 3450 R.P.M. with overload protection. No magnetic starter required.

HP	Stage	Tank Gal-Type	Pump RPM	C.F.M.@ 0-PSI	C.F.M.@ 100PSI	LxWxW Dimension	Voltage Amps	Wt. Shipped	Unit Model	Price	Your Price \$
1.5	SINGLE	15 v-port	1200	10.0	4.8	22x18x40	115/12	150	G15115VP30	\$985	
2	SINGLE	20 port.	1380	10.4	6.5	33x19x30	115/15	175	G212P50	\$1,169	
3.5	SINGLE	60 vert.	1100	18.6	11.5	31x27x70	230/15	250	G3516VS75	\$1,366	

**COMMERCIAL SERIES - ELECTRIC**

1 PHASE - MOTOR 3450 R.P.M. with full 15% service factor & overload protection. No magnetic starter required.

HP	Stage	Tank Gal-Type	Pump RPM	C.F.M.@ 0-PSI	C.F.M.@ 100PSI	LxWxW Dimension	Voltage Amps	Wt. Shipped	Unit Model	Price	Your Price \$
5	SINGLE	30 horiz.	1088	23.7	18.3	33x18x38	230/22	295	C513HA8	\$2,538	
5	SINGLE	60 vert.	1088	23.7	18.3	34x20x68	230/22	335	C516VA8	\$2,538	
5	SINGLE	80 vert.	1088	23.7	18.3	32x24x66	230/22	435	C518VA8	\$2,944	
5	SINGLE	80 horiz.	1088	23.7	18.3	64x20x41	230/22	435	C518HA8	\$3,400	
5	TWO	80 vert.	715	21.7	18.1	32x24x74	230/22	560	C518VC1	\$3,279	
5	TWO	80 horiz.	715	21.7	18.1	64x20x48	230/22	560	C518HC1	\$3,766	

**OPTIONS: FACTORY MOUNTED**

Your Price \$

Air Operated Auto Drain (pg. 21)	#ADVSM	\$184	
*Auto Drain (electronic pg. 21)	#SDV03M	\$184	
*Intake Noise Silencer 1" (C1) (pg. 23)	#SA100M	\$165	
*Intake Noise Silencers 1" (VA80) (pg. 23)	#SA100X2M	\$330	
*Right From the Start Kit (pg. 29)	#RFS001	\$177	
*Belt Guard Aftercooler (pg. 20)	#BGAC1M	\$434	
Vibration Pads 4x4x1" (set of 4) (pg. 28)	#VP1004	\$40	
Vibration Pads 4x4x1" (set of 3) (pg.28)	#VP1003	\$30	

Refrigerated Compressed Air Dryers use Freon to lower the temperature of the compressed air. This temperature reduction condenses the water vapor within the compressed air into droplets, allowing it to be eliminated through an onboard condensate drain. CASTAIR Refrigerated Dryers are designed to maintain a 37 degree F dew point, which insures that little condensation will be at the point of expansion at your air tool, paint booth or other pneumatic device. By removing moisture, overall air system maintenance cost and downtime is lowered by 15-25%, increasing productivity and quality. With the addition of a properly sized pre-filter (**required for warranty**), dryer life will be extended and because of the added cleanliness, air tools and other pneumatic devices will be further extended.

## REFRIGERATED DRYER FEATURES

- Easily maintained automatic moisture drain system, only cycles when water is present conserving compressed air.
- 115 volt, 1-phase, 60Hz electrical power supply with 9' three prong power cord.
- Quick connect for refrigerant re-charge.
- Stainless steel heat exchanger for even heat transfer and long life.
- Environmentally friendly refrigerant R134a and R407c.
- Effective dual function, single body heat exchanger.
- Simple design with a reliable dew point indication.
- Maximum 232 psig inlet compressed air pressure.
- No computer logic, no programming needed.
- Small footprint and light weight.
- UL listed.



CASTAIR Model	CFM @ 37 F	CFM @ 50 F	In and Out Connections	Volt PH	AMPS	Weight	WxDxH DIMENSIONS	Price	Your Price \$
RD25-6K	25	28	3/4"npt	115/1	3.0	57	10.6x17.9x19.6	\$1,675	
RD59-11K	59	65	3/4"npt	115/1	6.5	73	10.6x19.1x22.4	\$1,921	
RD71-15K	71	86	1" npt	115/1	7.5	110	11.8x23.7x22.8	\$2,486	
RD113-60K	113	138	1" npt	115/1	9.0	119	11.4x30.5x24.5	\$3,760	
RD166-37K	166	183	1-1/2"npt	230/1	11.4	137	11.4x33.7x24.5	\$4,282	

## OPTIONS

Mount dryer on new compressor with a 3/4" NPT 3-ball valve bypass, stainless steel flex hose, and vibration pads.

			Your Price \$
3/4"	DM75	for RD59-11K or smaller refrig. dryers	\$573
3/4"	DM75E	for RD59-11 or smaller on enclosures	\$698
1"	DP100	*for RD71-15K or bigger plumbing bypass only	\$688
1"	DP100M	*for RDD80 or RD71-15 plumbed & mounted	\$900

\*Pairs with 1" NPT filtration

\*Rated capacities are based on temperatures of 100 deg. inlet and 100 deg. ambient air @ 100 psi.

For inlet air temperatures of 150 deg F the capacity will be 55% of the above rating.

IE: A 100 CFM dryer capacity is 55 CFM @ 150 deg. F inlet air temperature.

Cannot mount refrigerated dryers with C3 and C4 pumps.

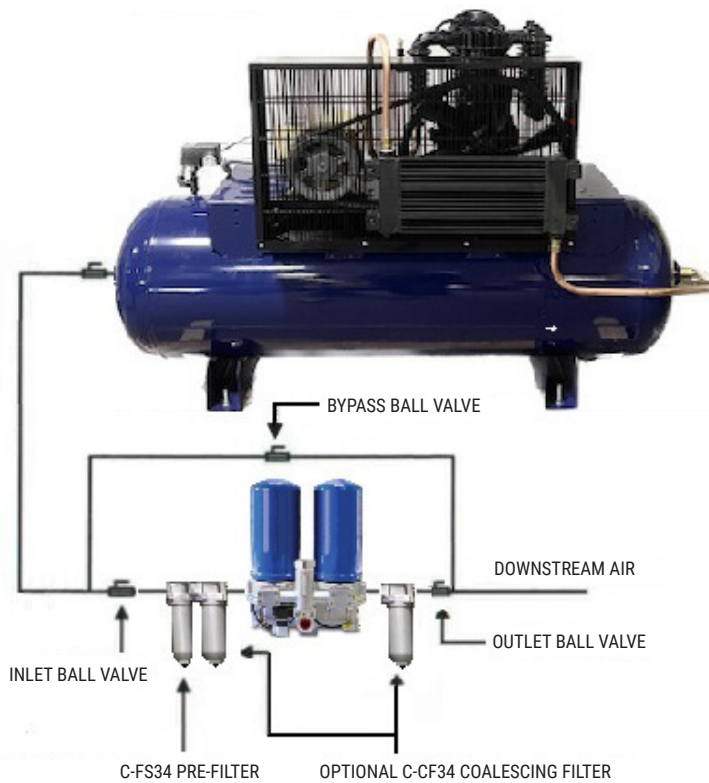
**Larger sizes are available please call for pricing.**



## Protect compressed air lines from oil, water and particulates

The robust and easy to maintain compact heatless regenerative desiccant dryer delivers superior dew points yet is highly efficient. It breaks the mold of typical regenerative desiccant dryers. You can now get high quality air without the costs and prohibitive high energy consumption, huge initial capital investment or expensive service calls.

The modular design fits any situation. It is the perfect solution for point of use at highly critical applications. Or place at the compressor and provide clean, dry air to the full operation.



**NOTE: Air receiver (storage tank) required between compressor and dryer. 5 Micron Pre-filtration required for warranty (C-FS34)**

Part #	Optional	Price	Your Price \$
DM75RD	3/4" 3-Ball Valve Bypass	\$573	

## REGENERATIVE DESICCANT AIR DRYERS

Part #	CFM	Price	Your Price \$
RDD40.016	0-10	\$2,931	
RDD40.030	11-20	\$2,931	
RDD40.060	21-40	\$2,931	
RDD80.060	41-80	\$6,772	

Call for pricing on sizes above 80 CFM. 1000+ CFM available.



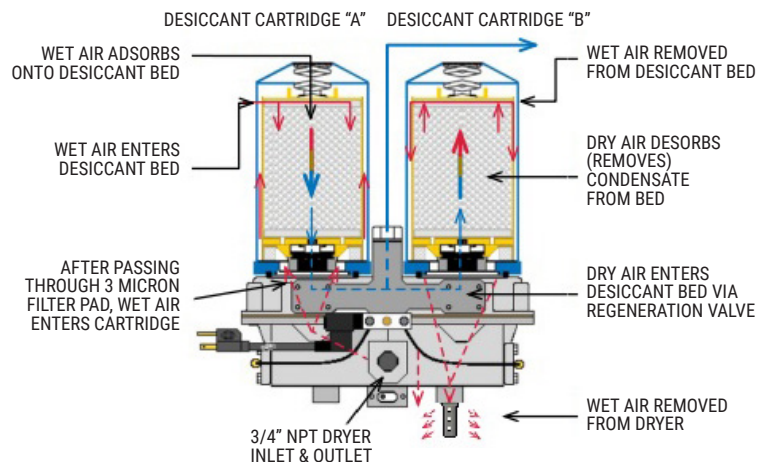
## FEATURES & BENEFITS

- Low dew points up to -40°F (-40°C) when sized properly
- Typically requires < 10% purge air
  - vs. 15-20% with competitor brands
- 115v -2 minute cycle timer (w/manual cycle tester)
- Quick spin on ON/OFF tower replacement
  - Includes 2.5-micron tower filter pads
- Far easier to service than competitor brands

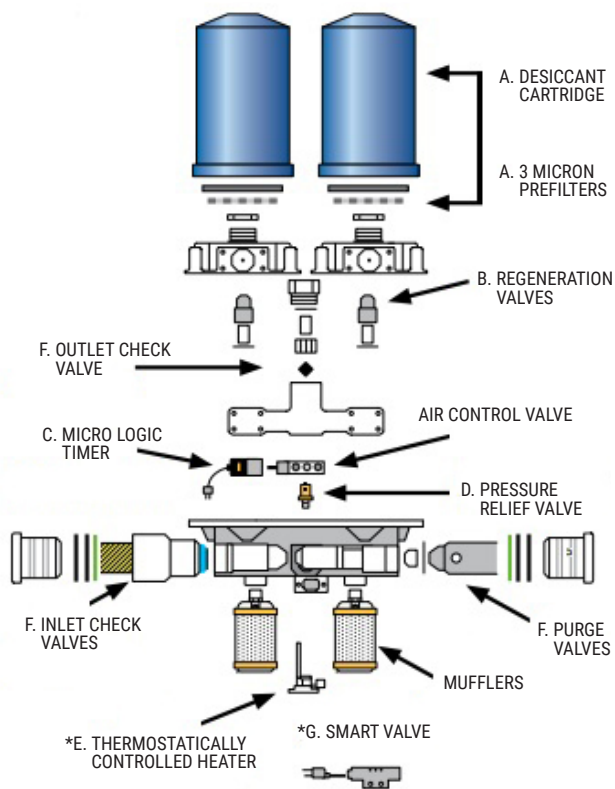
## AVAILABLE UPGRADES

- Smart Valve
  - Matches dryer cycles to compressor run cycles
  - Reduces dew points / energy consumption
- Dryer Block Heater
  - Allows dryer operation in temperatures to -15°F
  - 75 watt – 115 volt-powered
- Programmable Logic Controller (PLC)
  - Minimizes air purge (Applications 80 cfm+)

## DRYER SYSTEM PROCESS



NOTE: Minimum pressure 90 PSI – Maximum pressure 190 PSI



## DRYER SERVICE KIT PARTS

	Part #	Description	Price	Your Price \$
A	RD2T-2	Set of 2 Regen Towers w/2.5 micron filter pads	\$480	
B	RD.016-S	.016 Orifice Set	\$120	
B	RD.030-S	.030 Orifice Set	\$120	
B	RD.060-S	.060 Orifice Set	\$120	
C	RDDMLT	Replacement Micro Logic Timer	\$743	
D	ST25-200	200PSI Safety Valve (1/4" NPT)	\$15	
E	*RDDH	Regen Desiccant Dryer Heater Rated to -15°F (on@40°F, off@60°F)	\$286	
F	RDD40SK	Regen Desiccant Dryer Service Kit	\$249	
	RDD40-OGK	Complete O-Ring Gasket Kit (All O-Rings & Gaskets)	\$41	

\* Additional / Optional add-on

## SMART VALVE

Drive down dew points and energy consumption further with the RDD40SV Smart Valve. This valve synchronizes the dryer to the compressor's on/off cycles, eliminating air purge and loss when the compressor is not running.

	Part #	Description	Price	Your Price \$
G	*RDD40SV	Regen Desiccant Dryer Smart Valve	\$1,878	

## SMART VALVE FEATURES

- Energy efficient – zero purge loss when dryer is not on
- Optimized dryer performance with smart cycling features
- Synchronous compressor control reduces energy consumption by the dryer only running when the compressor is on
- **Smart Valve wires directly to compressor's contactor. Note: Not capable for use at 460V.**

## DRYER CONTROL TYPES

\*Optional control type

### MLT: MICRO LOGIC TIMER (standard)

(110Vac / .090 amps) alternates compressed air flow and regenerates cartridges at 2-minute intervals (rated NEMA 4).

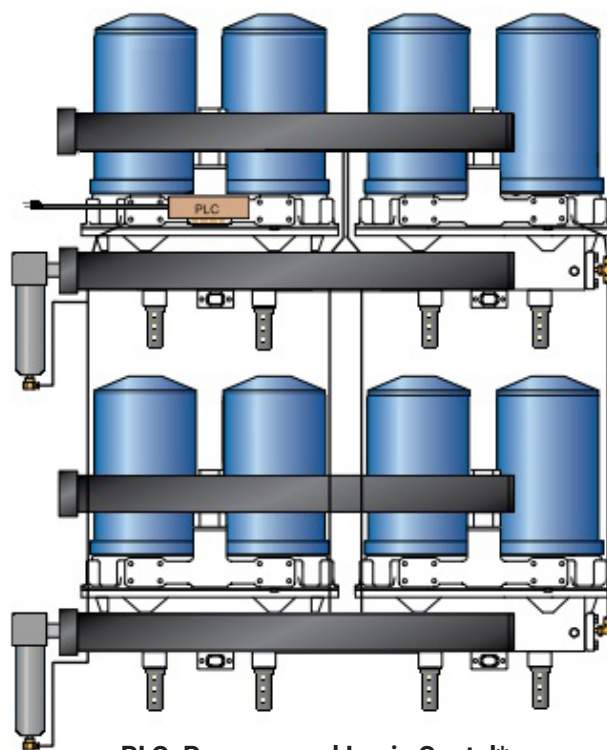
### PLC: PROGRAMMED LOGIC CONTROL (\*optional)

(110Vac/.090 amps) sequentially regenerates one cartridge per row every 45 second interval while the remaining desiccant cartridges receive/dry compressed air. PLC box and power cord is connection-ready for optional synchronous compressor-dryer control (rated NEMA 4).

### PC: PNEUMATIC CONTROL / NEMA 7 (\*optional)

(Explosion-proof/Class 1 Div 2 rated) is used wherever electricity is not available. Compressed airflow and regeneration of cartridges pneumatically alternates every 60 seconds.

All RDD40 series dryers can be linked for increased maximum CFM. For companies with growing air demand over time, this allows you to add on to your system rather than replace as you grow and your air demands increase.



PLC: Programmed Logic Control\*

**Minimum Pressure: 100 psi Maximum Pressure: 175 psi**  
 Water, oil, and particulates must be removed prior to dryer in order to maximize dryer effectiveness and life of desiccant.

### STRONGER CONSTRUCTION

Aluminum billet and hard coat anodizing provides superior strength and corrosion resistance; eliminating casting porosity.

### 115V CONTROL TIME

Timer cycles the towers into regeneration mode every 2 minutes.

### CUSTOMIZABLE PERFORMANCE

Cartridge style regeneration orifices provide the ability to control the amount of air used to dry the towers. Reducing air volume and increasing orifice size can provide dew points down to -40°F. Flow rates up to 100 CFM @ 175 psi. See orifice chart below.

### DUAL 1" INLET / OUTLET PORTS

Dual inlet ports and outlet ports provide easier installation and allow air to come in and out of same side or in one side and out the other. This unique design allows for greater mounting flexibility.

### LESS PARTS, MORE RELIABLE

Single piston spool per tower reduces the number of moving components; allowing for easier serviceability.

### REGENERATIVE DESICCANT AIR DRYERS

Part # RDD50 2 Tower Dryer 0-50 CFM List Price \$4,000  
 Optional: 3/4" Dryer Mounting w/ 3-way Ball Valve  
 Part # DM75RD List Price \$573



RDD50 shown above

Part #RDD50 CFM Capacity	Orifice Size
0 - 10	RD .015
11 - 25	RD .030
26 - 40	RD .045
41 - 50	RD .060

### HOW REGENERATIVE DRYERS WORK

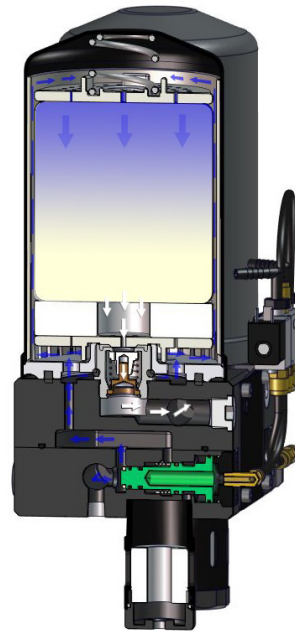
#### **The Drying Process**

1. Pre filtered air enters the dryer and is channeled through the desiccant tower/s.
2. Wet air passes through the tower/s where desiccant draws water vapor in while under pressure.
3. After flowing through the desiccant, the now dry air is sent downstream.
4. After two minutes, the control timer sends out a pilot signal shifting the internal piston. When the piston shifts, air is redirected from this tower/s to the opposite.

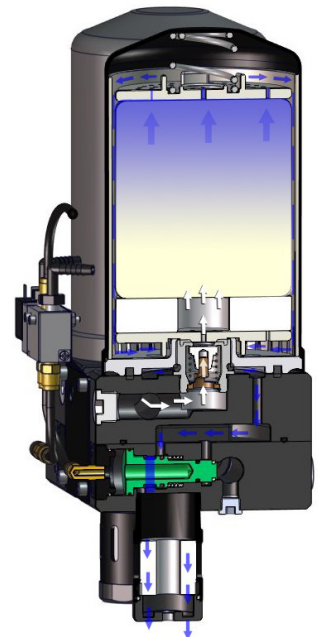
#### **The Regeneration Process**

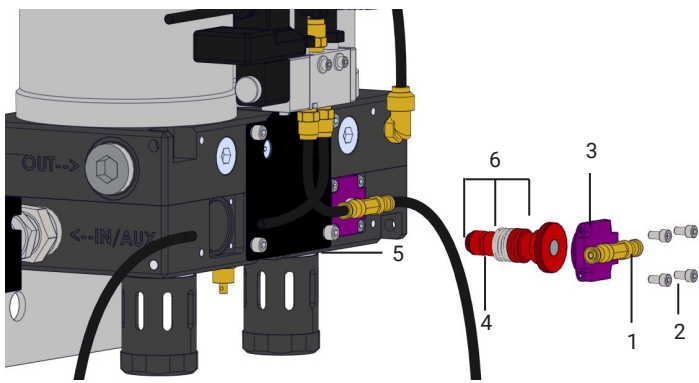
1. A small amount of air from the dry outlet on the opposite tower/s percolates up through the regeneration orifice and back through the desiccant filled tower/s.
2. The desiccant is dried as the sweep air passes back through the media.
3. With the use of this air, the tower/s discharge water vapor through the mufflers located below the dryer manifolds.
4. After 2 minutes, the control timer sends out a pilot signal shifting the internal piston. When the piston shifts flow is reversed and this tower/s begins drying the air.

The Drying Process



The Regeneration Process





Ref No.	Description
1	Quick Connect Fitting
2	Socket Head Cap Screws
3	Piston Cover
4	Piston Spring
5	Piston Bore
6	Poston O-Rings

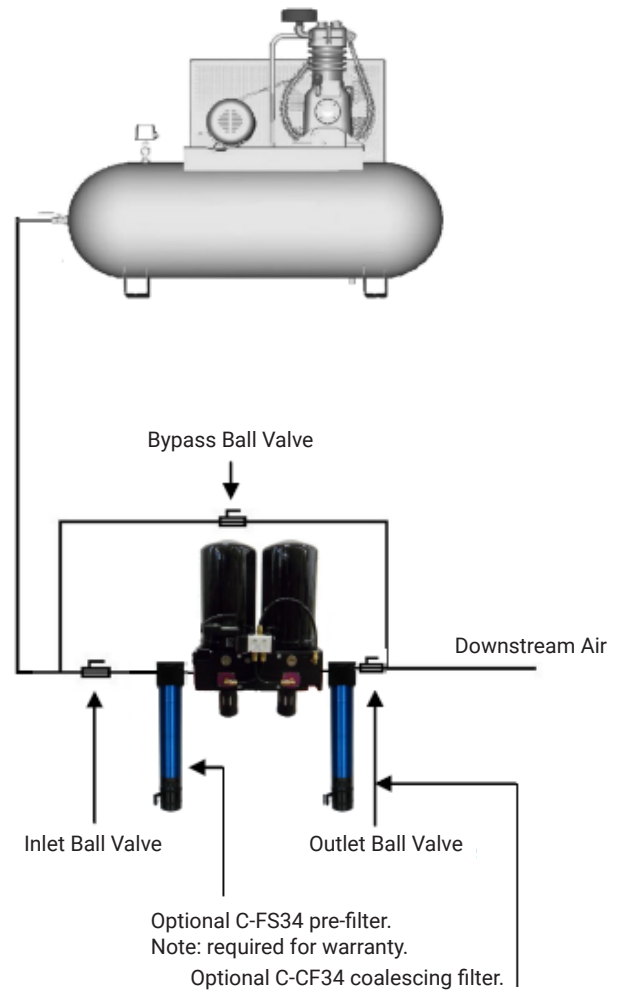
### SERVICE: PISTON & BORE LUBRICATION

**Depressurize the unit prior to any element change or service.**

**Each piston and bore (2) follows the same maintenance routine.**

1. Disconnect tubing from Quick-Connect Fitting located on the piston cover. Push in on brass ring. While holding ring in, pull out tubing.
2. Remove the four Socket Head Cap Screws holding the piston cover in place (4mm Hex Key Wrench).
3. Remove Piston Cover for access to piston.
4. Using a finger or a 1/2-13 bolt, remove the Piston from the Piston Bore; be sure you remove the Piston Spring.
5. Using the provided grease, lubricate the Piston Bore. Grease thoroughly.
6. Lubricate the three Piston O-rings shown above. Grease thoroughly.  
Note: It is unnecessary to grease the bottom Piston O-ring.
7. Re-install the Piston and Piston Spring.
8. Reattach the Piston Cover using the four Piston Socket Head Screws.  
Torque to 75 in lb.
9. Reconnect pilot line.

### Typical Installation Diagram with Bypass Valve

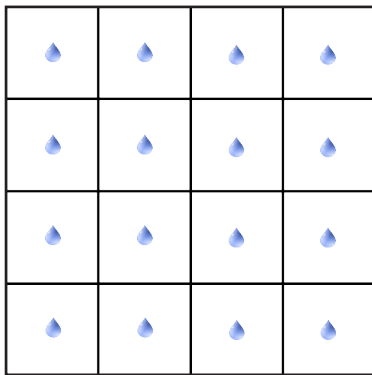


### SERVICE PARTS



	Description	Part #	Unit Price	Your Price \$
A	Pre-filter with 5 micron element	C-FS34	\$85	
B	Replacement Pre-filter Element	C-F7	\$9	
C	Coalescing Filter with .01 micron element	C-CF34	\$210	
D	Replacement Coalescing Element	C-F7607	\$82	
E	Tower Replacement ea. (RDD50 2 required) (RDD100 4 required) <u>Change @ 4,000 hrs</u>	RDDT2-2	\$480	
F	Piston Rebuild Kit ea. (RDD50 2 required) (RDD100 4 required)	RDDRKS	\$146	
G	Muffer Assembly (RDD50 2 required) (RDD100 4 required)	RDDM	\$123	
H	Regenerative Desiccant Dryer Timer & Control Block - 115 volt	RDDT115	\$529	

When air is compressed, it is heated as high as 350 degrees, which vaporizes and thus suspends water. An aftercooler cools compressed air down to within 15 degrees above ambient temperature, substantially reducing water & other contaminants in your air supply. In effect, water will be reduced by 50% for every 20 degree reduction in temperature, typically resulting in up to a 65% reduction of water in in your air system.



Each box represents moisture present in 1-cubic foot of air at atmospheric pressure.



Now 12-cubic feet of air at atmospheric pressure is reduced to 1-cubic foot of air when compressed to 160 PSI. This 1-cubic foot of air now contains 12 times the moisture.



## BENEFITS

- Performance based on 250-degrees inlet air temperature, all models.
- Maximum operating pressure 250 PSIG, all models.
- Maximum operating temperature 350 degree F., all models.

## BELT GUARD STYLE

Length	Width	CFM	In/Out	Wt. (lbs)	Model Loose	Price	Your Price \$	Model Mounted	Price	Your Price \$
18"	10-1/2"	35	3/4"	8	BGAC1	\$347		BGAC1M	\$434	
18"	14-1/2"	50	1"	12	BGAC2	\$524		BGAC2M	\$699	
24"	20-1/2"	90	1"	20	BGAC3	\$967		BGAC3M	\$1,209	
23"	26-1/2"	100	1-1/4"	25	BGAC4	\$1,358		BGAC4M	\$1,698	

## FIELD MOUNTING KITS

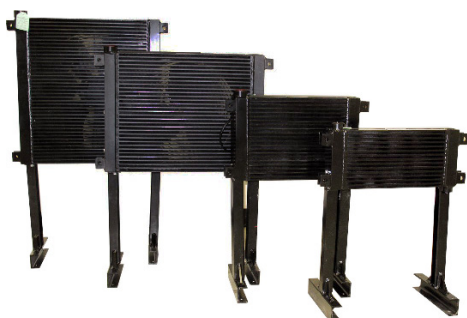
Kit	HP	Price	Your Price \$
BGAC1K	5-10 HP piston	\$543	
BGAC2K	15 HP piston	\$932	

Unit model required for proper kit

## FREE STANDING STYLE

LxWxH Dimension	CFM	Outlet / Inlet	Wt. (lbs)	Model	Price	Your Price \$
21x12x27	35	3/4"NPT	30	FSAC35	\$671	
21x12x31	50	1"NPT	40	FSAC50	\$874	
27x15x36	75	1"NPT	70	FSAC75	\$1,041	
43-1/2 x 14-3/4 x 46-1/2	120	1-1/2"NPT	140	AC120	Call for pricing	
43-1/2 x 14-3/4 x 46-1/2	150	1-1/2"NPT	145	AC150	Call for pricing	

Call for larger sizes



115 VOLT, 1 PHASE, 60 HERTZ.

Floor or suspended mounting. Horizontal or vertical air flow.

Free standing aftercoolers require a particulate filter or tank with optional auto drain to capture condensed water.

## PARTICULATE FILTERS: 5-MICRON

Size NPT	PSI Max	CFM	Bowl	Part #	Price	Your Price \$
1/4" Mini	150	38	1.5oz	C-FM14	\$30	
1/2" Std.	250	140	8.5oz	C-FS12	\$85	
3/4" Std.	250	160	8.5oz	C-FS34	\$85	
1" Std.	250	180	11oz	C-FS10	\$150	
1 1/4"	250	390	16oz	FS114	\$566	
1 1/2"	250	390	16oz	FS112	\$566	

## COALESCING FILTER: w/D.P.I. .01-micron (must use prefilter)

1/2"	250	105	8.5oz	C-CF12	\$210	
3/4"	250	120	8.5oz	C-CF34	\$210	
1"	250	150	11oz	C-CF10	\$345	

## REGULATORS: (W/ GAUGE)

\* No gauge

Size NPT	PSI Max	CFM	Part #	Price	Your Price \$
1/4" Mini	150	38	C-RE14	\$35	
1/2" Std.	250	104	C-RS12	\$85	
3/4" Std.	250	162	C-RS34	\$85	
1" Std.	250	162	C-RS10	\$130	
1 1/4 Std.	250	400	*RS114	\$350	
1 1/2 Std.	250	500	*RS112	\$350	

## DESICCANT FILTER DRYER

Comes with one fill. Must use prefilter & coalescing. \*SCFM and SCF based on 70 degree inlet temp. @100psig

Size NPT	PSI Max	Max. Flow		Capacity	LxWxH	Part #	Price	Your Price \$
		SCFM*	SCF*					
1/2"	150	2500	15	3/4 lbs	3 x 3.5 x 6	C-DF12	\$85	
3/4"	215	5000	25	2 lbs	4 x 4 x 10	C-DF34	\$185	
Desiccant Silica Gel 1-qt.				2 lbs	Silica Gel	DSGB02	\$56	

## FILTER ELEMENTS

	To Fit	Part #	Price	Your Price \$
7000 Series	C-FM14	C-F2	\$8	
	C-FS12	C-F7	\$9	
	C-FS34			
9000 Series	C-FS10	C-F9	\$13	

## FILTER ELEMENTS/FILTER COUPLERS

To Fit	Part #	Price	Your Price \$
FS114	EK602VB	\$72	
FS112	EKF329-5	\$52	
C-CF12	C-F7607	\$82	
C-CF34			
C-CF10	C-FM9607	\$115	
C-FS34	C-CK34 Coupler 3/4"	\$25	
C-CF34			
C-FS10	C-CK10 Coupler 1"	\$30	
C-CF10			



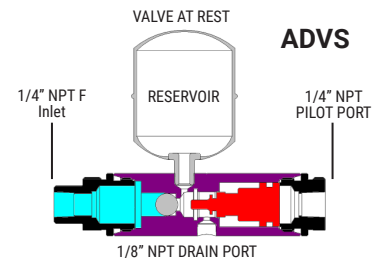
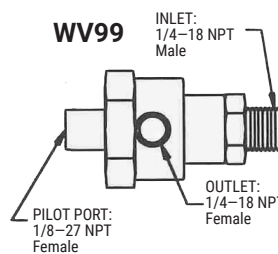
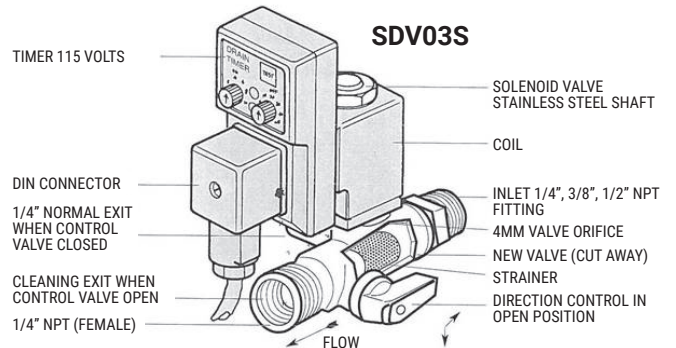
## AUTOMATIC DRAINS

Automatic drains can be used to drain tanks, drip legs, filters, etc.

### BENEFITS:

- Saves labor by eliminating the need to manually drain tank.
- Provides dryer air by expelling water before it can accumulate in the tank.
- Extends tank life by maintaining a dry tank.

Type	Size	Part #	Price	Your Price \$
Air operated (valve only)	1-10 Hp	WV99	\$78	
Strainer w/shut off	All models	IVS04	\$36	
Air operated(valve only)	1-15 Hp	ADVS	\$141	
Air operated w/install kit	1-15 Hp	ADVSM	\$184	
Electronic w/strainer 115volt	All Hp	SDV03S	\$141	
Electronic w/install kit	All Hp	SDV03M	\$184	
Petcock 1/4"	All models	PC14	\$6	
Watts Bowl Float Drain	Filters	AFD1	\$92	
THB Bowl Float Drain	Filters	AFD3	\$56	
Screen for strainers #IVS04	All Hp	BPS	\$3	
1/4" Ball Valve Drain	All Hp	BV25M	\$25	



## MOTORS

HP	Phase	Volt	Ser. Factor	AMP Draw	Frame	RPM	Shaft	Wt.	Part #	Price	Your Price \$
2	1	115/230	1.00	15/7.5	56	3450	5/8	30	2-56-1H	\$319	
3.5	1	208/230	1.00	15	56	3450	5/8	40	3.5-56-1H	\$398	
5	1	208/230	1.15	22	56HZ	3450	7/8	45	5-56Z-1H	\$617	
5	1	208/230	1.25	24/22	184T	1725	1 1/8	80	5-184-1	\$820	
7.5	1	208/230	1.15	34/31	184T	3450	1 1/8	95	7-184-1H	\$1,547	
7.5	1	208/230	1.25	38/36	215T	1725	1 3/8	145	7-215-1	\$1,149	
10	1	208/230	1.25	46/43	215T	1725	1 3/8	165	10-215-1	\$1,600	
5	3	208/230/460	1.15	15/14/7	184T	1725	1 1/8	65	5-184-3	\$777	
7.5	3	208/230/460	1.15	23/22/11	213T	1725	1 3/8	130	7-213-3	\$949	
10	3	208/230/460	1.15	30/28/14	215T	1725	1 3/8	135	10-215-3	\$1,122	
15	3	208/230/460	1.15	41/40/20	254T	1725	1 5/8	238	15-254-3	\$1,894	
20	3	208/230/460	1.15	53/50/25	256T	1725	1 5/8	315	20-256-3	\$2,003	
25	3	208/230/460	1.15	66/62/31	284T	1725	1 7/8	360	25-284-3	\$2,666	
30	3	208/230/460	1.15	76/72/36	286T	1725	1 7/8	380	30-286-3	\$3,063	

- Open drip proof
- UI & CSA listed
- Single/three phase
- TEFC, explosion proof. Please inquire
- Other sizes, voltages, and efficiencies available. Please inquire



## NON-CODE - AIR RECEIVERS

(BARE TANKS) Tanks are painted at no charge

Gal.	Tank Size	Type	Top Plate	PSI	Wt.	Part #	Price	Your Price \$
8	10x24	DD portable	6x7	150	30	8P150D	\$120	
8	10x24	BD portable	6x16	150	35	8P150B	\$164	
8	17x34	Twin	9x24	150	68	8TT150N	\$286	
20	See below. This receiver is ASME							

## COMPLETE KIT

Tank, wheels, axles, handle, vibration pads, beltguard. **Saves 15%**

Part #	Price	Your Price \$
8P150DC	\$156	
8P150BC	\$214	
8TT150NC	\$372	
20P150C	\$550	

## ASME - AIR RECEIVERS

Tanks are powder coated. 120, 200 gallon & larger vertical remote tanks available. Call for pricing.

Gal.	Tank Size	Type	Top Plate	PSI	Wt.	Part #	Price	Your Price \$
20	14x31	Portable	9x22	150	85	20P150	\$423	
30	18x33	Horizontal	9.5x25	175	105	30H175	\$812	
30	16x38	Horizontal	13x40	200	147	30GH200	\$1,091	
60	20x48	Vertical	9.5x25	150	138	60V150	\$812	
80	24x48	Vertical	13x32	200	230	80V200	\$1,252	
80	20x63	Horizontal	17x44	200	230	80H200	\$1,718	
120	30x45	Vertical	17x44	200	355	120V200	\$2,761	
120	24x68	Horizontal	17x44	200	355	120H200	\$2,073	
120	24x68	Horizontal	17x85	200	445	120HD200	\$2,722	
240	30x84	Horizontal	17x44	200	700	240H200	\$4,033	
240	30x84	Horizontal	17x85	200	790	240HD200	\$4,636	



## BARE BASE PLATES

Size/Description	Part #	Price	Your Price \$
9.5x25	BP9.5x25	\$126	
12.5x32x3/16"	BP125x32	\$229	
13x40x1/4"	BP13X40	\$280	
17x44x1/4"	BP17x44	\$523	
2" inspection plug	IP2	\$23	
2" o-ring inspect plug	OR2	\$5	

## WHEELS, HANDLES, AXLES

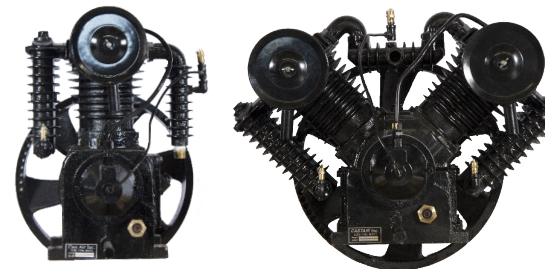
Description	Part #	Price ea.	Your Price \$
Wheel 7.5x1.5x.5	W7.5x1.5x.5	\$10	
Wheel 10x2x1/2	W10x1.5x.5	\$17	
Wheel 10x3x3/4	W10x3x.75	\$38	
Handle 20 gal port.	3432013	\$25	
Handle 8 gal t.t. set	3432008A	\$40	
Axle bolt 8 gal. 1/2"	AB12	\$4	
Axle bolt 20gal. 3/4"	AB34	\$6	
Axle twin tank	AT34	\$8	

## CAST IRON BARE PUMPS WITH FLYWHEEL

**WARRANTY:** 1 year, parts only, when properly installed & maintained

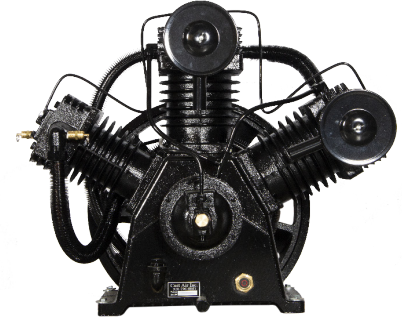
HP	Wt.	Stage	Cylinder	Flywheel OD (inches)	Oil Capacity	Part #	Price	Your Price \$
1.5	20	Single	1	7.5 - 1A	8 oz.	PK20	\$220	
1.5	45	Single	1 w/motor	N/A	8 oz.	DD20	\$464	
1.5	45	Single	1	10-1A	8 oz.	PK30	\$272	
2	50	Single	V2	10 - 1A	16 oz.	PK50	\$420	
3.5	55	Single	V2	10 - 1A	24 oz.	PK60	\$488	
3.5	55	Single	I2	12	16 oz.	*S755	\$525	
3.5 - 5	110	Single	V2	12.5 - 2A	1 qt.	VA80	\$908	
4 - 5	70	Single	W3	10 - 1A	28 oz.	PUK65	\$684	
4 - 7.5	225	Two	Inline 2	16.875 - 2B	2 qt.	C1	\$1,216	
5 - 10	320	Two	V4	19.0 - 2B	2 qt.	C2	\$2,016	
10 - 15	485	Two	W3	20.7 - 3B	1 gal.	C3	\$3,584	
15	485	Two	W3	14 - 3B	1.75 gal.	C3G	\$3,744	
15 - 25	800	Two	V4	14 - 3B	1 gal.	C4	\$6,716	
Valve tool for C1 & C2 pumps						VT12	\$67	

\*S755 does not include flywheel



C1

C2



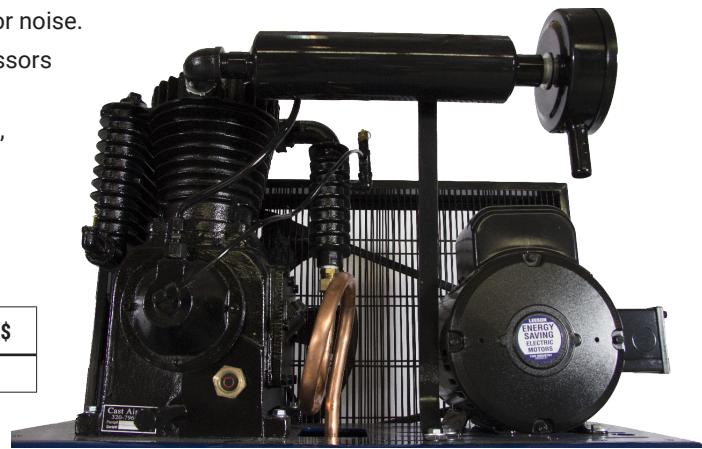
C3

## INTAKE NOISE SILENCER

### BENEFITS:

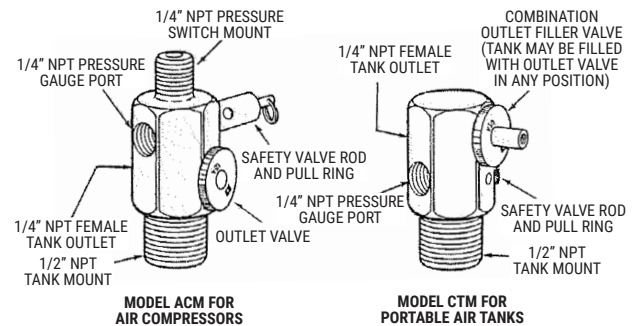
- Silences air compressor intake noise and provides a safer quieter work environment, also allows operator to monitor any unusual air compressor noise.
- Provides cooler intake air & reduces moisture by positioning air compressors intake point away from the heat of the unit, and cooler air is dryer air.
- Installs in minutes between your air compressor's intake filter and pump, and requires no special tools.
- All steel construction
- 3 year limited warranty
- **Other sizes available upon request**

Inlet	Outlet	Length	Diameter	Wt.	Part #	Price	Your Price \$
1"npt fem.	1"npt male	16"	3"	3 lbs	SA100	\$140	



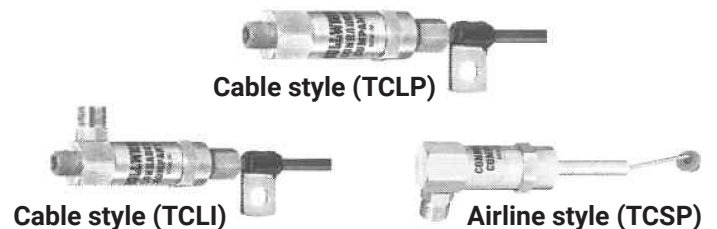
## TANK MANIFOLDS

Description	Part #	Price	Your Price \$
Air compressor manifold w/safety valve 150 PSI	ACM	\$38	
Carry tank manifold w/safety valve 150 PSI	CTM	\$38	



## THROTTLE CONTROLS FOR HONDA GAS ENGINES

Description	Part #	Price	Your Price \$
Airline type 5 & 6-1/2 hp	TCSP-H-5565-B	\$62	
Cable type 48" plain head 8 - 20hp	TCLP-48	\$68	
Cable type 48" head unloader 8 - 20hp	TCLI-48	\$69	
Airline type 8 - 24 hp	TCSP-H-0813-B	\$69	
Cable clamp - threaded	0817	\$10	





## PRESSURE SWITCHES

PSI On/Off	Description	Part #	Price	Your Price \$
95-125	no unloader	PSL1	\$41	
95-125	w/unloader	PSL1X	\$45	
95-125	w/unloader & on/off	PSL1MIX	\$46	
95-125	w/unloader & on/off w/four way	PSL4MIX	\$55	
145-175	no unloader	PSH1	\$41	
145-175	w/unloader	PSH1X	\$45	
145-175	w/unloader & on/off	PSH1MIX	\$46	
145-175	w/unloader & on/off w/four way	PSH4MIX	\$55	
15-230	no unloader & adjustable differential	PSAD15-230	\$271	
	Pressure Switch Unloader Valve	PSUV	\$23	

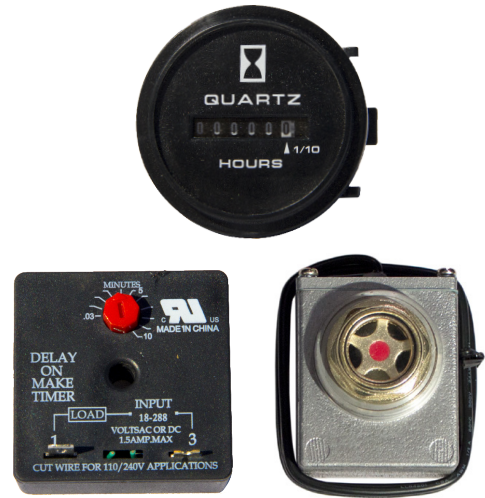
- Corrosion resistant covers
- Easy to adjust
- UL/CSA listed



## ALTERNATOR - HOUR METER - TIME DELAY - LOW OIL CONTROL

The alternator relay provides a means of automatically alternating the operation of two separate air compressors. Time delay allows two separate units to be started and stopped at the same time without creating a power surge.

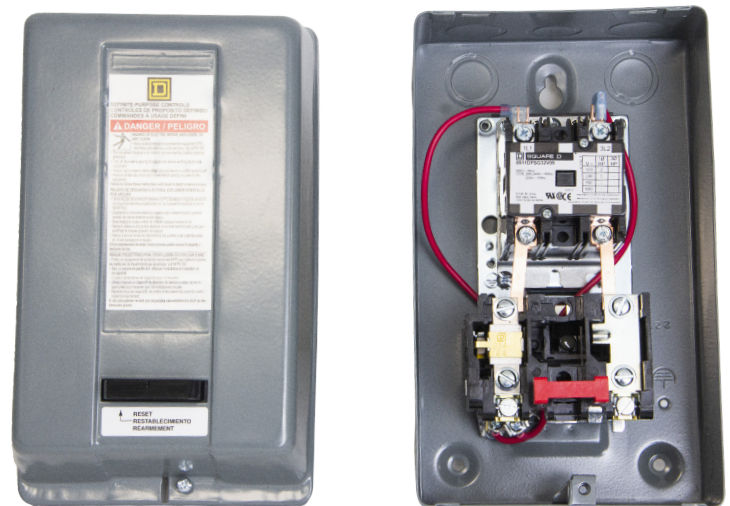
Description	Part #	Price	Your Price \$
Automatic two compressor alternator relay 230 volt	ALT230	\$446	
Automatic two compressor alternator relay 460 volt	ALT460	\$446	
Hour meter (90 to 264 volt/ac)	HRM75	\$66	
Hour meter (440-480volt/ac)	HRM460	\$130	
Hour meter for gas engines	HRM50	\$96	
Time delay 18 to 240 volt 1-1023 seconds	TD100	\$50	
Low oil control only (no fittings or extra wires)	6304	\$92	
Float switch for low oil control only	6304B	\$48	



## MAGNETIC MOTOR STARTERS

Heaters: One is required for 1-phase & three for 3-phase \$35 ea.

HP	Voltage	Phase	Part #	Price	Your Price \$	Heater #
5	208/230	1	S51	\$300		B36
7.5	208/230	1	S71	\$346		B45
10	230	1	S101	\$604		B70
5	208/230	3	S52	\$265		B25
5	460	3	S54	\$265		B11.5
7.5	208/230	3	S72	\$321		B36
7.5	460	3	S74	\$265		B22
10	208/230	3	S102	\$448		B45
10	460	3	S104	\$321		B25
15	208/230	3	S152	\$659		B70
15	460	3	S154	\$321		B32
20	208/230	3	S202	\$663		CC87.7
20	460	3	S204	\$463		B40
25	208/230	3	S252	\$869		CC132
25	460	3	S254	\$689		B45
30	208/230	3	S302	\$1,271		CC143
30	460	3	S304	\$689		B56



## COMPLETE AIR FILTER ASSEMBLIES W/ ELEMENTS

S - denotes (silencer type)

Inlet Size	OD"	O.A. Ht."	CFM	Part #	Price	Your Price \$
1/2"	4.0"	3"	12	2140019A	\$23	
3/4"	4.0"	3"	12	2140020A	\$23	
1/4"	3.25"	3.50"	12	F-10D-025	\$48	
3/8"	3.25"	3.50"	12	F-10D-038	\$48	
1/2"	3.25"	3.50"	12	F-10D-050	\$48	
1/2"	6.75"	4.50"	20	S-16D-050	\$60	
3/4"	6.75"	4.50"	20	S-16D-075	\$60	
1"	6.75"	4.50"	30	S-16D-100	\$60	
1"	6.75"	7.0"	60	S-20DP-100	\$84	
1 1/4"	6.75"	7.0"	60	S-20DP-125	\$84	
1 1/2"	6.75"	7.0"	60	S-20DP-150	\$84	
2"	7.5"	7.5"	195	S-32DP-200	\$176	
2"	10"	7"	195	2140025	\$176	



## FILTER ELEMENTS

Note: 16DP, 20DP, & 32DP have foam prefilters. Other sizes and Brand X filters available

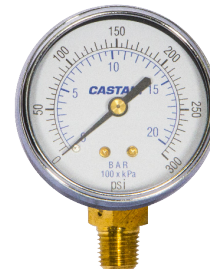
To fit above Part #	To fit pump	ID"	OD"	Hgt."	Part #	Price	Your Price \$
N/A	Flat Solberg	1 3/4"	2 3/8"	1"	04	\$16	
N/A	Flat Solberg	2 3/8"	3 1/8"	1 3/8"	06	\$17	
N/A	Flat Solberg	3 1/4"	4 1/4"	1 3/8"	10	\$26	
N/A	DD/FOAM	1/8"	1 1/4"	1"	8P	\$7	
2140019A	DD20 PK20/50	1 1/8"	2 1/2"	1 7/8"	8D	\$8	
2140020A	PK60/65	1 1/8"	2 1/2"	1 7/8"	8D	\$8	
F-10D-050	N/A	1 1/8"	2 1/4"	2 1/4"	10D	\$13	
S-16D-075	A4	3"	4 3/8"	2 1/8"	16D	\$9	
S-16D-100	VA80, C1,C2,C3	3"	4 3/8"	2 1/8"	16D	\$9	
S-16D-100	VA80, C1,C2,C3	3"	4 3/8"	2 1/8"	16DP	\$11	
S-20DP-150	C4U	3"	4 3/8"	4 3/4"	20DP	\$28	
S-32DP-200	S3,P3,S4,P4	3 1/2"	5 3/4"	4 7/8"	32DP	\$50	
2140025	C4	4 3/4"	8"	3 1/4"	2142025	\$34	



## PRESSURE GAUGES — STEEL FRAME

\*Liquid filled. Many other sizes, PSI and options available.

NPT	Size	Pressure	Mounting	Part #	Price	Your Price \$
1/8"	1.5"	0-60PSI	Back	G151860B	\$13	
1/8"	1.5"	0-60PSI	Bottom	G151860U	\$13	
1/8"	1.5"	0-160PSI	Back	G151816B	\$13	
1/8"	1.5"	0-160PSI	Bottom	G151816U	\$13	
1/4"	2"	0-200PSI	Back	G201420B	\$14	
1/4"	2"	0-200PSI	Bottom	G201420U	\$14	
1/4"	2.5"	0-300PSI	Back	G251430B	\$17	
1/4"	2.5"	0-300PSI	Bottom	G251430U	\$17	
1/4"	2.5" LIQUID	0-300PSI	Back	* GL251430B	\$26	
1/4"	2.5" LIQUID	0-300PSI	Bottom	* GL251430U	\$26	
1/4"	2.5" FLANGED	0-300PSI	Back	GF251430B	\$50	



BOTTOM MOUNT



BACK MOUNT

## ASME - SAFETY VALVES

IN STOCK: 70, 100, 125, 150, 200 & 250 PSI.

Other sizes/pressure available please inquire.

NOTE: When ordering add PSI setting to the PART# (IE: ST25-150)

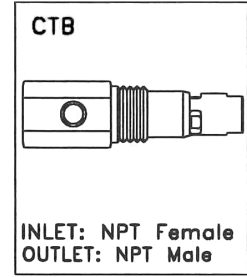
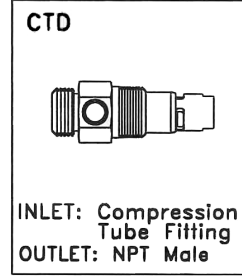
Size	PSI Settings	Part #	Price	Your Price \$
1/4"	25-250 PSI	ST25	\$15	
1/2"	50-250 PSI	SF50	\$38	



## CHECK VALVES — IN TANK

Rated for 500 PSIG. - 400 DEG. F. - 1/8" side port for unloader. Other sizes/styles available, call for pricing.

Inlet Style	Inlet x Outlet	Part #	Price	Your Price \$
Comp. fitting	3/8 x 3/8	CTD3838	\$24	
Comp. fitting	3/8 x 1/2	CTD3812	\$24	
Comp. fitting	1/2 x 1/2	CTD1212	\$25	
Comp. fitting	5/8 x 1/2	CTD5812	\$35	
Comp. fitting	1/2 x 3/4	CTD1234	\$35	
Comp. fitting	3/4 x 3/4	CTD3434	\$35	
Comp. fitting	3/4 x 1	CTD3410	\$55	
Comp. fitting	1/2 x 3/8	CTD1238	\$30	
NPT female	3/8 x 1/2	CTB3812	\$25	
NPT female	1/2 x 1/2	CTB1212	\$24	
NPT female	1/2 x 3/4	CTB1234	\$35	
NPT female	3/4 x 3/4	CTB3434	\$37	
NPT female	1 x 1	CTB1010	\$60	
NPT female	1-1/4 x 1-1/4	CTB114114	\$100	
NPT female	1-1/2 x 1-1/2	CTB112112	\$190	



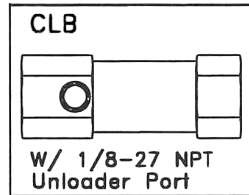
### 90 DEG. FOR DD, PK, PP UNITS

Flare 1/2" x 1/2"	2414025	\$26	
Repair kit for 2414025	2414025K	\$9	
Cold start valve	CSV	\$6	

## IN-LINE

Female / Female

NPT female	1/4 x 1/4	CLB1414	\$32	
NPT female	1/2 x 1/2	CLB1212	\$43	
NPT female	3/4 x 3/4	CLB3434	\$55	
NPT female	1 x 1	CLB1010	\$86	
NPT female	1-1/2 x 1-1/2	CLB112112	\$259	



## GENIE UNLOADER TYPE

NPT female	1/4 x 1/4	PA6	\$39	
Comp. fitting	3/8 x 1/4	CA6	\$37	
NPT female	3/8 x 3/8	PA12	\$39	
Comp. fitting	1/2 x 3/8	CA12	\$37	

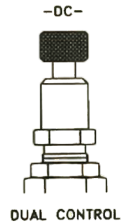
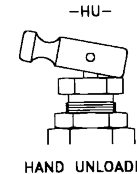
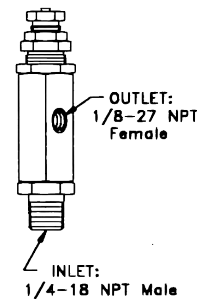
## PILOT VALVES

- Hex brass body • Full external adjustment: pressure & differential
- 40-250 PSI range available • Corrosion resistant.

Specify gas (HU) or electric (DC) at end of part# (IE: RCBM100HU)

PSI Range	Inlet	Outlet	Part #	Price (HU)	Price (DC)	Your Price \$
100-120 PSI	1/4" NPT	1/8" NPT	RCBM100	\$47	\$50	
150-170 PSI	1/4" NPT	1/8" NPT	RCBM140	\$47	\$50	

### RCB-M



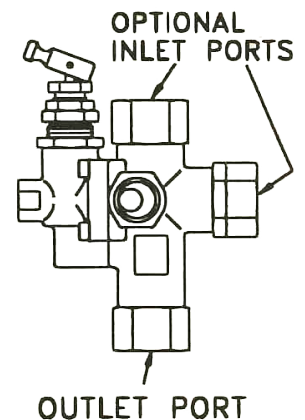
## 1, 2 & 3 WAY PILOT VALVES

1-way (discharge unloader) 2-way (same plus pilot valve) 3-way (same as 2-way plus check valve)

Note: Pilot ports 1/8" female. Specify PSI option: 100 for 100-120 or 140 for 140-170 (IE: NG-1-100)

Type	Inlet	Outlet	Vent Outlet	Max CFM	Application	Part #	Price	Your Price \$
1-way	1/4" fem. NPT	N/A	direct w/felt	20	Gas or Elec.	D2M	\$59	
2-way	1/4" fem. NPT	N/A	direct w/felt	20	Gas engine	BG2-M	\$92	
2-way	1/4" fem. NPT	N/A	direct w/felt	20	Electric dual	BE2-M	\$108	
2-way	1/2" fem. NPT	1/2" fem. NPT	1/4"F/NPT pilot	60	Gas engine	BLG	\$167	
2-way	1/2" fem. NPT	1/2" fem. NPT	1/4"F/NPT pilot	60	Electric dual	BLE	\$145	
3-way	1/2" fem. NPT	1/2" fem. NPT	3/8" NPT	25	Gas engine	NG-1	\$130	
3-way	3/4" comp	1/2" fem. NPT	3/8" NPT	25	Gas engine	NG-18	\$130	
3-way	1/2" fem. NPT	1/2" fem. NPT	3/8" NPT	25	Electric dual	NDC-1	\$130	
3-way	3/4" male comp	3/4" male NPT	1/2" NPT	50	Gas engine	NLG-7	\$384	
3-way	3/4" fem. NPT	3/4" fem. NPT	1/2" NPT	50	Electric dual	NLDC-1	\$384	
						3/8" muffler	M38	\$15

### NG-1



REPLACEMENT COMPONENTS

## MOTOR PULLEYS

Note: other sizes available, please inquire

OD	Shaft Size	# Grooves	Part #	Price	Your Price \$
4"	5/8" fixed bore	1A	P1A40-5/8	\$32	
4"	5/8" fixed bore	1B	P1B40-5/8	\$32	
4"	7/8" fixed bore	1B	P1B40-7/8	\$32	
3.35"	7/8" fixed bore	2B	P2B335-7/8	\$40	
3.55"	Hub	2B	P2B355H	\$40	
3.95"	Hub	2B	P2B395H	\$40	
4.45"	Hub	2B	P2B445H	\$67	
4.95"	Hub	2B	P2B495H	\$69	
6.25"	1-3/8" fixed bore	2B	P2B625-13/8	\$71	
6.75"	1-3/8" fixed bore	2B	P2B675-13/8	\$74	
7.25"	1-1/8" fixed bore	2B	P2B725-11/8	\$88	
8.0"	1-3/8" fixed bore	2B	P2B80-13/8	\$92	
8.75"	1-3/8" fixed bore	2B	P2B875-13/8	\$108	
6.15"	Hub SD	3B	P3B615SD	\$110	
7.75"	Hub SK	3B	P3B775SK	\$132	
8.38"	Hub SK	3B	P3B838SK	\$138	
9.75"	Hub SK	3B	P3B975SK	\$146	



## HUBS

Shaft Size	Part #	Price	Your Price \$
5/8"	LX58	\$20	
7/8"	LX78	\$20	
1"	LX100	\$20	
1 1/8"	LX118	\$20	
1 3/8"	LX138	\$20	

Shaft Size	Part #	Price	Your Price \$
1 3/8"	SD138	\$29	
1 5/8"	SD158	\$29	
1 5/8"	SK158	\$48	
1 7/8"	SK178	\$48	

## BELT GUARDS (STEEL FRAME)

Size	Used On	Part #	Price	Your Price \$
Portable electric	PK50 & PK60	3426007	\$92	
Portable gas	PUK5508/20G	3426013	\$92	
9-hp portable gas	PUK65	3426052	\$109	
24x14x5	A2, A3, A4 & A8	2BG	\$120	
32x20x5	C1, D3, G11	3BG	\$204	
40x20x5	C2	4BG	\$236	
40x24x7	C3, G30	4BG7.0	\$424	
48x32x7.5	C3U & C4U/C4	5BG	\$440	



## INDUSTRIAL V-TYPE BELTS

High Grade Industrial Low Stretch, Anti-Static. Call for additional sizes

Length	Section	Part #	Price	Your Price \$
48	A	3-A48	\$12	
52	A	3-A52	\$12	
64	A	3-A64	\$12	
67	A	3-A67	\$12	
47	B	3-B47	\$15	
52	B	3-B52	\$15	
53	B	3-B53	\$15	
63	B	3-B63	\$15	
69	B	3-B69	\$20	

Length	Section	Part #	Price	Your Price \$
73	B	3-B73	\$20	
75	B	3-B75	\$20	
77	B	3-B77	\$25	
79	B	3-B79	\$25	
85	B	3-B85	\$30	
87	B	3-B87	\$30	
90	B	3-B90	\$30	
112	B	3-B112	\$35	

## INDUSTRIAL V-TYPE COGGED BELTS

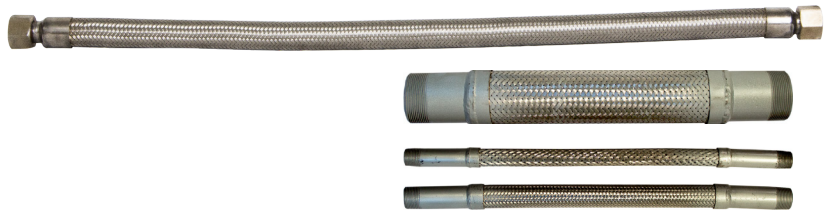
Call for additional sizes

Length	Section	Part #	Price	Your Price \$
64	B	3-BX64	\$30	
76	B	3-BX76	\$35	

## METAL FLEX HOSE

Vibration absorbing • Stainless steel • 250 PSI Max.

Description	Part #	Length	Price	Your Price \$
1/2"NPT male/male	VA050	18"	\$55	
3/4"NPT male/male	VA075	18"	\$70	
3/4"NPT male/male	VA075-36	36"	\$125	
1.0"NPT male/male	VA100	18"	\$118	
1" JIC female/female	VA100J36	36"	\$240	
1-1/4"NPT male/male	VA125	18"	\$121	
1-1/2"NPT male/male	VA150	18"	\$132	
2"NPT male/male	VA200	18"	\$155	



Other sizes, styles & lengths available, call for pricing.

## BALL VALVE Female both ends

Description	Part #	Price	Your Price \$
1/4" Full flow ball valve	BV25	\$14	
1/4" Ball valve mounted	BV25M	\$25	
3/8" Full flow ball valve	BV38	\$15	
1/2" Full flow ball valve	BV50	\$16	
3/4" Full flow ball valve	BV75	\$28	
1" Full flow ball valve	BV100	\$48	
1-1/4" Full flow ball valve	BV125	\$68	
1-1/2" Full flow ball valve	BV150	\$96	



Larger sizes available, call for pricing.

## CAST-LUBE

- High Temp Rated
- Low Carbon
- Non-Foaming
- Factory Approved
- Has -34°F pour point, all weather oil

**Premium oil for piston air compressors**  
Semi-synthetic. Rating 4 months or 400 hours

Size	Part #	Wt.	Price	Your Price \$
1 qt.	QT5W30	5W30	\$12	
1 gal.	GA5W30	5W30	\$40	

**Premium oil for piston air compressors**  
Full synthetic. Rating 8 months or 800 hours.

Size	Part #	Wt.	Price	Your Price \$
1 qt.	QT10W30	10/30	\$26	
1 gal.	GA10W30	10/30	\$66	

**Premium full synthetic oil for rotary screw compressors**  
Rating 1 year or 4000 hrs.

Size	Part #	Use for	Price	Your Price \$
1 gal.	GA4000	CASTAIR Rotary Screw	\$86	
5 gal.	FG4000	CASTAIR Rotary Screw	\$374	



Case Quantities:

- Gallons x6
- Quarts x12

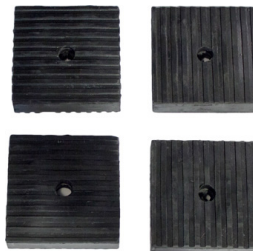
Food grade oil available, call for pricing.

NOTE: Mix 10% run 50 hours & drain oil warm & change oil & separator filters.

Rotary varnish cleaner	VARNASOLV	\$215	
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## RUBBER VIBRATION PADS

Size	Description	Part #	Price	Your Price \$
4x4x1	Rubber	VP100	\$10/ea.	
4x4x1	Rubber (set of 3)	VP1003	\$30	
4x4x1	Rubber (set of 4)	VP1004	\$40	
1.5x.75	Round rubber	VP1575	\$5	
2x3	Twin tank foot boot	2433009	\$7	
1x2.25	Twin tank flat	2433015	\$7	



VP100

## DISCHARGE TUBE - ELBOWS - ADAPTORS

Description	Part #	Price	Your Price \$	Description	Part #	Price	Your Price \$
Comp. adaptor 1/2x1/2	CA1212	\$13		1/2" Discharge tube w/ fittings	DT12	\$38	
Comp. elbow 1/2x1/2	CE1212	\$25		3/4" Discharge tube w/ fittings	DT34	\$63	
Comp. adaptor 3/4x3/4	CA3434	\$15		1/2" Compression nut & sleeve	CNS12	\$7	
Comp. elbow 3/4x3/4	CE3434	\$28		3/4" Compression nut & sleeve	CNS34	\$8	

## COPPER & NYLON TUBING

Specify feet required when ordering. Custom tubes available by request.

Description	Part #	Price	Your Price \$
1/4" Nylon tubing	NT25	\$4	
1/4" Copper tubing	CT25	\$8	
1/2" Copper tubing	CT50	\$10	
5/8" Copper tubing	CT58	\$13	
3/4" Copper tubing	CT75	\$16	

# RIGHT FROM THE START KITS

For piston compressors only. **Saves 10% vs. buying separately**

## INDUSTRIAL & COMMERCIAL

	RFS001	RFS002	RFS003
Price	\$177	\$274	\$340
Your Price \$			
Kit	A8, C1, C2	C3	C4
Includes	QTY	QTY	QTY
GA5W30	1	2	2
VP100	4	4	4
BV75	1		
BV100		1	
BV125			1
VA075	1		
VA100		1	
VA125			1
16D	2	2	
2142025			2

## DUPLEX

	RFS001D	RFS002D	RFS003D
Price	\$229	\$290	\$383
Your Price \$			
Kit	10HP	15 & 20HP	25 & 30HP
Includes	QTY	QTY	QTY
GA5W30	2	2	4
VP100	4	4	4
BV75	1		
BV100		1	
BV125			1
VA075	1		
VA100		1	
VA125			1
16D	4	4	
2142025			4

### CAST-LUBE OIL (MULTI-GRADE)

GA5W30 (gallon) Your new compressor needs to have the break-in oil changed within the first eight hours of operation. Air compressors have different needs than engines and failure to use a premium quality air compressor oil such as CAST-LUBE could lead to carbon build up or damage to internal working parts and could void your warranty.



### RUBBER VIBRATION PADS

VP100 (4"x4"x1") To insure quiet trouble free operation for years to come, your new "CASTAIR" compressor needs to be mounted on quality vibration pads.

### BALL VALVE FULL FLOW

BV75 (3/4"), BV100 (1"), BV125 (1 1/4"), Brass/stainless steel ball valve to provide reliable tank shutoff.

### FLEX HOSE

VA075 (3/4"), VA100 (1"), VA125 (1 1/4"), Vibration absorbing stainless steel flex hose, a must to prevent vibration and pipe breakage between your compressor and shop piping.

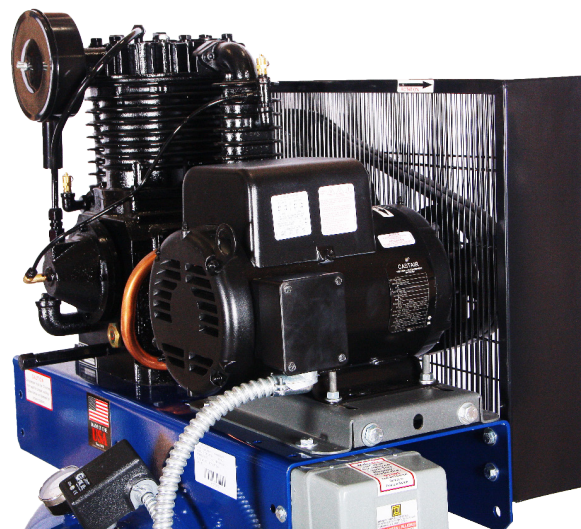
### AIR FILTER ELEMENTS

16D or 20DP It is vital to performance and long pump life to keep your air filters clean.

### ADJUSTABLE BELT TENSIONING MOTOR BASES

Quickly adjust belt tension without removing your beltguards or removing belts • Double bolt design to insure proper alignment.

HP	Part #	Price	Your Price \$	Part #	Price	Your Price \$
	Loose			Mounted		
5	184D	\$120		184DM	\$210	
7.5 & 10	213D	\$164		213DM	\$254	
7.5 & 10	215D	\$164		215DM	\$254	
15	254D	\$220		254DM	\$310	
20	256D	\$220		256DM	\$310	
25 & 30	284D	\$240		284DM	\$330	

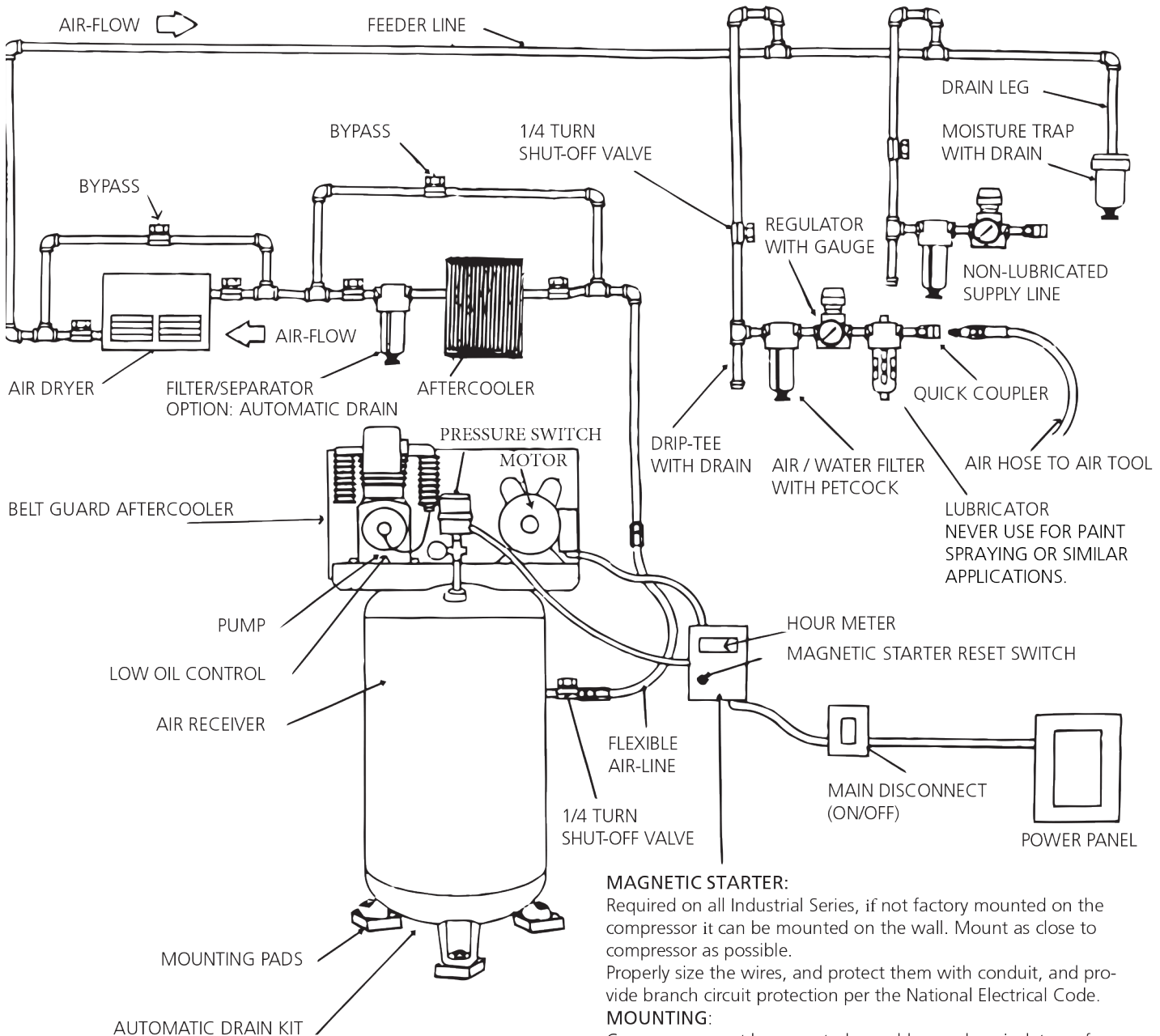


This diagram is only a guide to a typical system. Consult your distributor for detailed information regarding your particular installation.

**WARNING:** Always turn main power off. Shut off power-panel, and drain all air pressure from tank before servicing unit.

**CAUTION:** For paint spraying or similar applications a non-lubricated supply line must be used.

**IMPORTANT:** To remove moisture from airline, the main feeder line must run downhill to drain leg at a rate of 1 in. every 10 ft.



**MAGNETIC STARTER:**

Required on all Industrial Series, if not factory mounted on the compressor it can be mounted on the wall. Mount as close to compressor as possible.

Properly size the wires, and protect them with conduit, and provide branch circuit protection per the National Electrical Code.

**MOUNTING:**

Compressor must be mounted on rubber pads or isolators of some type between the tank legs and floor. If a shim is required to level the unit, place it between the pad and floor. Bolt the unit to the floor, use the bolts as guide pins only and do not tighten the bolts. The rubber pads are used to absorb machine vibrations and can not work effectively if bolted tightly to the floor.

**WARNING:** Bolting the compressor feet tightly to the floor can cause a stress crack in your tank and could void your warranty, cause serious personal injury, death, or property damage.

## AIR DISTRIBUTION PIPING

Pipe size selection for Compressed Air Lines

Free Air CFM	Equivalent length of pipe lines in feet							
	25	50	75	100	150	200	250	300
1	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
5	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
10	1/2	1/2	1/2	3/4	3/4	3/4	3/4	3/4
15	1/2	3/4	3/4	3/4	3/4	3/4	3/4	3/4
20	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
25	3/4	3/4	3/4	3/4	3/4	1	1	1
30	3/4	3/4	3/4	3/4	1	1	1	1
35	3/4	3/4	1	1	1	1	1	1
40	3/4	1	1	1	1	1	1	1
50	1	1	1	1	1	1	1	1
60	1	1	1	1	1-1/4	1-1/4	1-1/4	1-1/4
70	1	1	1	1	1-1/4	1-1/4	1-1/4	1-1/4
80	1-1/4	1-1/4	1-1/4	1-1/4	1-1/2	1-1/2	1-1/2	1-1/2
100	1-1/4	1-1/4	1-1/4	1-1/4	1-1/2	1-1/2	1-1/2	1-1/2
125	1-1/4	1-1/4	1-1/4	1-1/4	1-1/2	1-1/2	1-1/2	1-1/2
150	1-1/4	1-1/4	1-1/4	1-1/4	1-1/2	1-1/2	1-1/2	1-1/2
175	1-1/2	1-1/2	1-1/2	1-1/2	2	2	2	2
200	1-1/2	1-1/2	1-1/2	1-1/2	2	2	2	2
225	1-1/2	1-1/2	1-1/2	1-1/2	2	2	2	2
250	2	2	2	2	2	2	2	2
275	2	2	2	2	2	2	2-1/2	2-1/2
300	2	2	2	2	2	2	2-1/2	2-1/2
350	2	2	2	2	2-1/2	2-1/2	2-1/2	2-1/2
400	2	2	2	2	2-1/2	2-1/2	2-1/2	2-1/2
450	2-1/2	2-1/2	2-1/2	2-1/2	2-1/2	2-1/2	3	3
500	2-1/2	2-1/2	2-1/2	2-1/2	2-1/2	2-1/2	3	3
550	2-1/2	2-1/2	2-1/2	2-1/2	3	3	3	3
600	2-1/2	2-1/2	2-1/2	2-1/2	3	3	3	3
750	2-1/2	2-1/2	2-1/2	3	3	3	3	4
1000	3	3	3	3	3	3	4	4

Check all piping & fittings regularly to avoid leaks in the system.

## AIR FLOW CHART

Gauge Pres. in receiver	Flow of free air (cfm) through orifices of various diameters								
	Lbs.	1/64"	1/32"	3/64"	1/16"	3/32"	1/8"	3/16"	1/4"
1	.027	.107	.242	.430	.97	1.72	3.86	6.85	
2	.038	.153	.342	.607	1.36	2.43	5.42	9.74	
3	.046	.188	.471	.750	1.68	2.98	6.71	11.9	
5	.059	.242	.545	.965	2.18	3.86	8.71	15.4	
10	.084	.342	.77	1.36	3.08	5.45	12.3	21.8	
15	.103	.418	.94	1.67	3.75	6.65	15.0	26.7	
20	.119	.485	1.07	1.93	4.25	7.7	17.1	30.8	
25	.133	.54	1.21	2.16	4.75	8.6	19.4	34.5	
30	.156	.632	1.40	2.52	5.6	10.	22.5	40.0	
35	.173	.71	1.56	2.80	6.2	11.2	25.0	44.7	
40	.19	.77	1.71	3.07	6.8	12.3	27.5	49.1	
45	.208	.843	1.9	3.36	7.6	13.4	30.3	53.8	
50	.225	.914	2.05	3.64	8.2	14.5	32.8	58.2	
60	.26	1.05	2.35	4.2	9.4	16.8	37.5	67	
70	.295	1.19	2.68	4.76	10.7	19.0	43.0	76	
80	.33	1.33	2.97	5.32	11.9	21.2	47.5	85	
90	.364	1.47	3.28	5.87	13.1	23.5	52.5	94	
100	.40	1.61	3.66	6.45	14.5	25.8	58.3	103	
110	.43	1.76	3.95	7.00	15.7	28.0	63	112	
120	.47	1.90	4.27	7.58	17.0	30.2	68	121	
130	.50	2.04	4.57	8.13	18.2	32.4	73	130	
140	.54	2.17	4.87	8.68	19.5	34.5	78	138	
150	.57	2.33	5.20	9.20	20.7	36.7	83	147	
175	.66	2.65	5.94	10.6	23.8	42.1	95	169	
200	.76	3.07	6.90	12.2	27.5	48.7	110	195	

## AIR FLOW CHART

Orifice Size		Air pressure in lbs. per sq. inch (psi)								
		30	40	50	60	70	80	90	100	125
3/8	CFM	90	110	130	151	171	191	216	234	282
1/2	CFM	161	196	232	268	304	340	376	415	502
3/4	CFM	362	442	522	604	685	765	843	925	1127

CFM = Cubic Feet of Air per Minute



### AIR RECEIVER CAPACITY ft<sup>3</sup> of Free Air at Various Pressures

Capacities at other pressures are exactly in proportion. Example: At 200 lbs. pressure the capacity of a given size tank is exactly double the capacity at 100 lbs. pressure.

Receiver (gal.)	Pressure (PSI)							
	0	75	100	125	150	175	200	250
30	4.0	20.5	27.3	34.2	41.0	47.0	54.7	68.3
60	8.0	41.0	54.7	68.3	82.0	96.0	109.4	136.7
80	10.7	54.7	73.0	91.2	109.4	128.0	146.0	182.4
120	16.1	82.0	109.3	136.7	164.0	190.0	218.7	273.3
200	26.8	136.7	182.2	227.8	273.4	319.0	364.5	455.6
240	32.2	164.0	218.7	273.4	328.0	383.0	437.4	546.7
400	53.6	273.4	364.5	455.6	546.7	637.0	729.0	911.2
660	88.4	451.0	601.4	751.7	902.1	1052.0	1202.8	1503.4
1060	142.0	724.4	965.9	1207.3	1448.8	1690.0	1931.7	2414.5
1600	214.4	1093.4	1457.9	1822.4	2186.9	2551.0	2915.8	3644.8

### AIR TOOL CONSUMPTION GUIDE

These tools are rated based upon typical on load performance. Always check tool manufacturers' specifications. This chart is based on averages and should not be considered accurate for any particular brand of tool.

Tool Description	Operating PSI	Use factor	CFM consumption
3/8" air ratchet	90	25%	2.5
1/2" air ratchet	90	25%	4
1/4" impact wrench	90	25%	4
3/8" impact wrench	90	25%	5
1/2" impact wrench	90	25%	8
3/4" impact wrench	90	25%	9
1" impact wrench	90	25%	11
1-1/4" impact wrench	90	25%	14
Air hammer	90	25%	3
6" dual action sander	90	100%	12
Inline body file	90	100%	18
6" grinder	90	100%	18
Body buffer	90	100%	18
Die grinder	90	100%	16
Cut off wheel	90	100%	16
Rivet gun	90	16 rivets	4
Roofing nail gun	90	16 nails	1.3
Finish nail gun	90	16 nails	1.3
Framing nail gun	90	16 nails	2.2
Paint Gun (touch up)	90	50%	4
Paint Gun (production)	90	50%	8

### TABLE CONVERSION CHART Minutes to Decimal Hours

Minutes	Decimal Hours	Minutes	Decimal Hours	Minutes	Decimal Hours
1	.02	21	.35	41	.68
2	.03	22	.37	42	.70
3	.05	23	.38	43	.72
4	.07	24	.40	44	.73
5	.08	25	.42	45	.75
6	.10	26	.43	46	.77
7	.12	27	.45	47	.78
8	.13	28	.47	48	.80
9	.15	29	.48	49	.82
10	.17	30	.50	50	.83
11	.18	31	.52	51	.85
12	.20	32	.53	52	.87
13	.22	33	.55	53	.88
14	.23	34	.57	54	.90
15	.25	35	.58	55	.92
16	.27	36	.60	56	.93
17	.28	37	.62	57	.95
18	.30	38	.63	58	.97
19	.32	39	.65	59	.98
20	.33	40	.67	60	1.0

### AIR COMPRESSOR SIZING GUIDE CFM Per Employee

Application	Piston	Rotary
Auto Mechanic	6	4
Truck Mechanic	9	6
Body Shop	12	8

### USEFUL FORMULAS

Formula	To Find
$\frac{\text{Motor Pulley OD} \times \text{Motor RPM}}{\text{Pump Flywheel OD}}$	= Pump RPM
$\frac{\text{Pump Flywheel OD} \times \text{Pump RPM}}{\text{Motor RPM}}$	= Motor Pulley OD
$\frac{\text{Pump Flywheel OD} \times \text{Pump RPM}}{\text{Motor Pulley OD}}$	= Motor RPM

# DUTY CYCLE GUIDE

Duty cycle is the percentage of CFM your application demands vs. the CFM output of your air compressor.

i.e. Compressor CFM output @ 175psi is 28 CFM and your application's demand at 175psi is 14 CFM. 14 CFM demand divided by 28 CFM output = 50% Duty cycle.

Maximum Duty Cycle	CASTAIR Series
100%	Rotary Screw series
85%	Industrial series piston: Super heavy duty, ie: 5hp motor 10hp pump running 445 RPM.
70%	Industrial series piston: Standard duty, ie: 5hp motor with 5hp pump running 767 RPM.
60%	Belt Drive Contractor & Commercial series.
50%	Garage & Direct Drive Contractor series.

NOTE: Piston applications with a demand of 50% or more for over 1 hour at a time on a regular basis should be ordered with the dual control option. See page 35 for more details on dual controls. Rotary screw applications should have a minimum of 50% demand or more on a consistent basis or a piston with dual control is recommended.

## FACTS ABOUT HORSE-POWERS OF ELECTRIC MOTORS

This is the information you will need to sell CASTAIR units that are many times advertised at much lower horse-power ratings than most of our competitors, this is because we are not stretching the truth. It takes 8.8 amps @115 volts or 4.4 amps @230 volts to equal one horse-power on single phase electricity. Make sure your customers compare amp draw, not advertised horse-power. Always remind them that they are buying cubic feet of air per minute (CFM) not horse-power, and amp draw is what they should compare, if they really want to know what the true horse-power is.

## GENERATOR GUIDE

Watts needed to run an electric 1 - phase air compressor;

Motor amps x volts = watts to run x 5 = watts to start air compressor.

ie; 22amps x 230volts = 5060watts x 5 = 25,300watts

NOTE: It takes 5-times the watts to start than to run.

## TYPICAL ELECTRIC WIRE & BREAKER SIZES CHART

As a general rule take the motors full load amp (FLA) x 1.25 or (25%) = To determine your breaker & wire size.

NOTE: For longer runs, larger breakers & wire sizes must be used to overcome the voltage loss caused by the wires' resistance.

Copper wire size	Max Amps (Circuit breaker size)
No. 18 wire	7 amps
No. 16 wire	10 amps
No. 14 wire	15 amps
No. 12 wire	20 amps
No. 8 wire	30 amps
No. 8 wire	40 amps
No. 6 wire	50 amps

Copper wire size	Max Amps (Circuit breaker size)
No. 4 wire	70 amps
No. 3 wire	80 amps
No. 2 wire	90 amps
No. 1 wire	110 amps
No. 1/0 wire	125 amps
No. 2/0 wire	145 amps
No. 3/0 wire	165 amps

**CAUTION:**

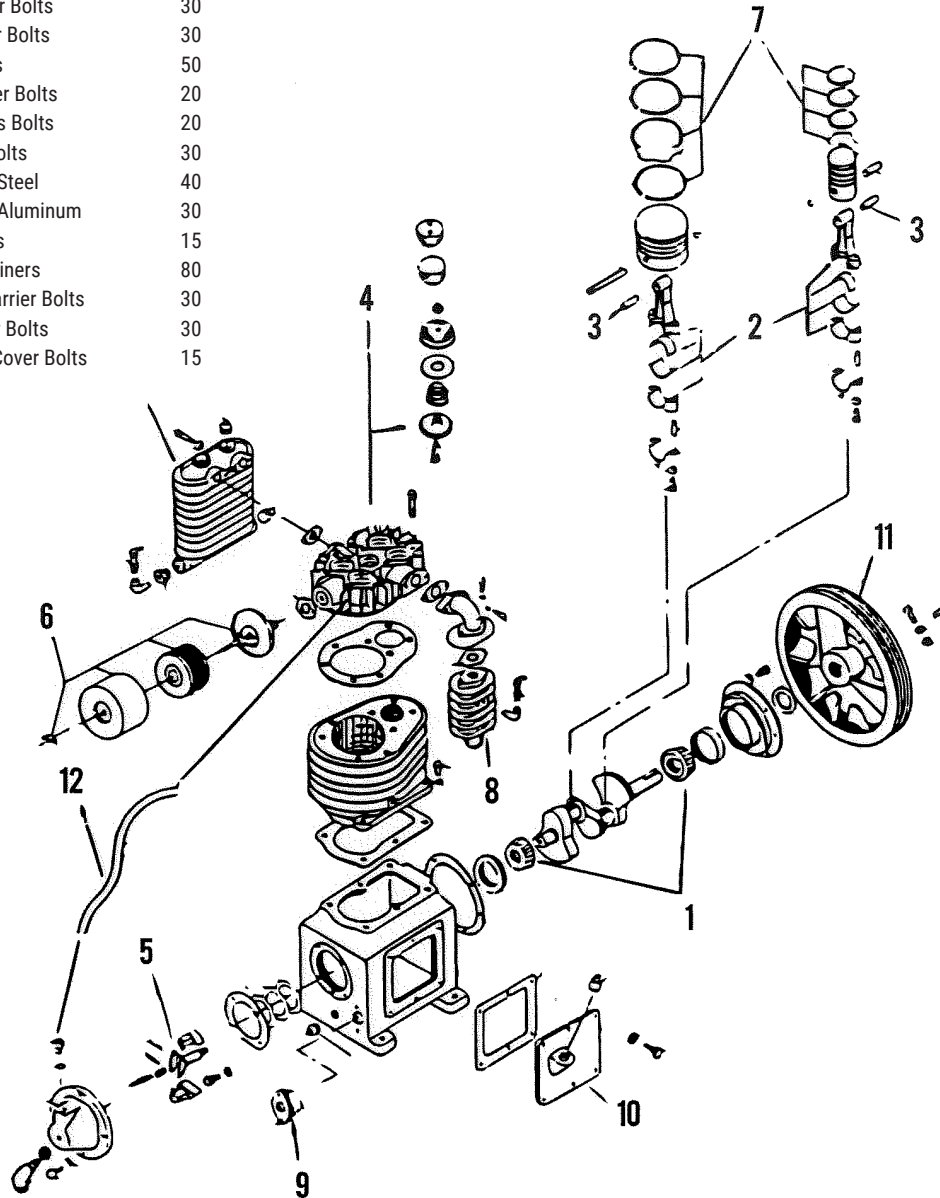
This chart is to be used as a guide only. All electrical work must be performed by a qualified electrician and must conform to national, state, and local electrical codes in your area.

## CAST IRON PUMPS

Model C1 shown, 2-cylinder  
(C2 is the same only 4-cylinder)

### TORQUE SPECIFICATIONS

	(foot pounds)
Flywheel Bolt	65
Aftercooler Bolts	30
Intercooler Bolts	30
Head Bolts	50
Valve Cover Bolts	20
Sight Glass Bolts	20
Cylinder Bolts	30
Rod Bolts Steel	40
Rod Bolts Aluminum	30
Valve Bolts	15
Valve Retainers	80
Bearing Carrier Bolts	30
Side Cover Bolts	30
Unloader Cover Bolts	15



1. Tapered roller bearings at both ends of crankshaft, less for friction.
2. All steel connection rods with automotive type rod insert bearings at crankshaft.
3. Bearings at wrist pin.
4. Disc and spring valves for high efficiency and reliability can be easily removed from the top without removing the head.
5. Centrifugal unloader... for loadless start-up every time.
6. Automotive paper type intake filters/silencer to provide maximum filtration and quiet operation.
7. Pistons have 4 rings for higher efficiency and less oil carry-over.
8. Finned cast iron intercooler & after cooler for maximum heat dissipation.
9. Easy to read brass sight glass to insure proper oil level at a glance.
10. Side covers for easy access to rods and crankshaft.
11. Massive balanced flywheel with deep fan blades for maximum cooling and smooth operation.
12. Positive crankcase vent for cleaner, quieter operation.

## CASTAIR'S INDUSTRIAL SERIES, 5HP PUMPS

Description	CASTAIR C1	C-Aire V95	Rollair K-30	I-Rand 2475	Quincy QT-5	Curtis or A.C.P. (B2)	Campbell Hausfeld (TF series)	Champion R-15	Puma (TK50)
Filter	metal silencer	plastic	plastic	metal silencer	metal silencer	plastic	metal silencer	metal silencer	metal open
Valves	disc & spring	reed	reed	reed	reed	reed	reed	disc & spring	reed
Head	cast iron	aluminum	aluminum	cast iron	aluminum	cast iron	aluminum	aluminum	cast iron
Piston rings	4	4	3	4	4	3	3	4	4
Cylinder	cast iron	cast iron	cast iron	cast iron	cast iron	cast iron	cast iron	alu. w/ castiron sl.	cast iron
No. of Cyl. & type	2-inline	2-V	2-inline	2-V	2-inline	2-inline	2-inline	2-inline	3-W
Crankcase	cast iron	cast iron	aluminum	cast iron	cast iron	cast iron	cast iron	cast iron	cast iron
Crankshaft	automotive	automotive	automotive	overhung	automotive	automotive	automotive	automotive	automotive
Main bearings	tapered roller	ball	ball	ball	ball	ball	tapered roller	tapered roller	ball
Connecting rod	steel	aluminum	aluminum	aluminum	aluminum	aluminum	aluminum	aluminum	aluminum
Rod bearings	automotive insert	automotive insert	automotive insert	none	none	automotive insert	none	none	automotive insert
Wrist pin bearing	bushing both	bushing both	bushing both	none	needle hp only	bushing both	needle both	needle both	none
Crankcase breather	intake return	open	open	intake return	open	open	open	intake return	open
Type of unloader	centrifugal	pres. switch	pres. switch	pres. switch	pres. switch	pres. switch	pres. switch	centrifugal	pres. switch
Intercooler	finned cast iron	copper tube	finned aluminum	copper tube	copper tube	finned cast iron	copper tube	copper tube	copper tube
Aftercooler	finned cast iron	none	finned aluminum	none	none	none	none	none	finned cast iron
Oil level check	sight glass	sight glass	sight glass	fill plug	sight glass	sight glass	sight glass	sight glass	sight glass
Flywheel	cast iron	cast iron	aluminum	cast iron	cast iron	cast iron	aluminum	cast iron	cast iron
R.P.M.	767	836	878	1040	942	900	808	710	965
Pump Wt.	225	134	83	190	140	134	150	125	190
C.F.M.@175psi	17.5	17.7	16.6	16.2	17.7	16.1	17.0	16.5	18.0

### KEY QUALITY FEATURES TO COMPARE

#### CASTAIR's standard features:

Pump	Cast iron – no plastic or aluminum
Motor	Industrial 1725 rpm w/15% or 25% or higher service factor
Tank	4 feet on vertical, channel on horizontal
Controls	High Quality name brand mag. starters & pressure switches
Belts	2-groove B-width standard V-belt
Guard	All steel with high flow non-flattened expanded metal
Tubing	All copper discharge or flex & unloader

vs.

#### Many competitors features:

Pump	Aluminum or multiple different metals – different expansion temps & less durable
Motor	Foreign made 3450 RPM w/no service factor
Tank	3 feet vertical, 4 feet horizontal
Controls	Foreign made off brands (poor availability on replacement parts)
Belts	1-groove A-width or special O.E.M.
Guard	Plastic, wire, or low flow flat expanded metal
Tubing	Aluminum discharge, plastic unloader

NOTE: Changes may have occurred since information was gathered, consult actual manufacturer for most accurate and up to date information.

# DUAL CONTROL

## What is it? Do I need it?

DUAL CONTROL enables either start/stop or continuous air compressor operation, unloaded.

This eliminates excessive restarting during periods of over 50% duty cycles. Rather than turning off and heating up then restarting, it runs unloaded and cools down before resuming pumping or turning off. If no air is used for approximately 2 minutes (this time is adjustable), it will turn off and restart on demand when air is used again. Results are longer pump and motor life and lower electrical bills by eliminating excessive restarts. Note: Inrush amperage draw at restart is 4 to 5 times the amp draw during pumping and amp draw during unloading is half of pumping amps.

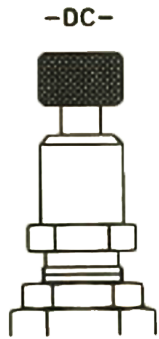
**Example** An 80-gallon compressor delivering 28 CFM capacity and an air demand of 50% (14 CFM) will run 1-minute 40-seconds and be off for 1-minute 40-seconds.

1 min. 40 sec. (run time) + 1 min. 40 sec. (off time) = 3 min. 20 sec. cycle time.  
 60 min./ 3 min. 20 sec. (cycle time) = 18 starts/hr

### Normal operating temperatures:

As you can see it is better to just keep the unit running when demand is 50% or more. We recommend no more than 10 starts per hour for start/stop operation.

Mode	Pump	Motor	AMP / Draw
Pumping	241 deg.	115 deg.	32 pumping
Unloading after 1 minute 40seconds	192 deg.	98 deg.	16 unloading
Off after 1 minute 40 seconds	263 deg.	138 deg.	128 to 168 @ start-up



For continuous run mode, turn knob out, all the way to the left.  
 For start/stop mode, turn knob in, all the way to the right.

**DUAL CONTROL**

Part #	Description	HP	Mounted Price	Your Price \$
DC1	Dual control on C1 pump	5 - 7 1/2	\$142	
DC2	Dual control on C2 pump	7 1/2 - 10	\$210	
DC3	Dual control on C3 pump	10 - 15	\$100	

## **CASTAIR, INC. is a Manufacturer of Air Compressors**

We are family owned and operated since 1991. As the name "CASTAIR" implies, our pumps are made of "cast iron" not aluminum. Our pumps are oil-lubricated, not oil-less and run at very slow RPMs making them quiet and extended service life.

We offer eight different series of compressors; contractor, garage, commercial, industrial, duplex, gas powered, rotary screw and rotary piston. We can also build custom compressors to fit your needs. We have a compressor for every application and price range.

Our goal is to help our customers understand the difference between our air compressors and our competitors so you can make an informed decision surrounding your air system needs. We do not offer the "cheapest" compressors, but if you compare, we are confident you will agree we have the best value!

Did you know the slower the pump RPM the quieter and cooler an air compressor will run? The air system will also contain less water and your unit will have a longer service life.

Be aware of the wording "peak" horse-power. When you see this, it is usually not the true horse-power. It takes 8.8 amps @ 115 volt or 4.4 amps @ 230 volt to equal 1 horse-power with 1-phase electricity. Make sure you compare the amp draw when making comparisons. Also be aware that a 1725 RPM motor will last longer and has more starting torque than a 3450 RPM motor.

Keep in mind you are not buying horse-power. You are buying air or cubic feet of air per minute, (CFM). CFM is many times expressed as CFM displacement which means at zero P.S.I. The CFM you want to pay close attention to is the CFM at your operating P.S.I. because this is where you are going to be using it. Displacement will always be higher because there is no resistance with zero pressure in the tank and the pump can deliver more CFM.

Parts are available for our brand or any brand air compressor. We are here to be your go to source in the very intricate and specific industry of air compressors. We have access to many brands and models for parts and maintenance items like air/oil and separator filters or aftermarket add on accessories. So, no matter what brand, what problem or questions you or your customer might have, don't hesitate to call us at CASTAIR!

We want to thank you, our great distributors, for making this possible with your continued support!

— Pat, Katie and Clint Kelly  
Founders & Owners

# CERTIFICATE OF LIMITED WARRANTY

All component parts on this compressor are warranted to be free of defects in workmanship and material for a period of one year when properly installed, lubricated, and maintained.

This warranty does not apply to misapplication, misuse, negligence, accident, normal wear or customer abuses that do not conform to normal industrial practices outlined in the owner's manual. Ordinary maintenance is the responsibility of the owner.

Transportation charges are the responsibility of purchaser. This warranty extends to the original purchaser of the compressor only.

This warranty does not apply to electric motors or gasoline engines. These are covered by the Original Manufacturer's Warranty and should be returned by the purchaser to their authorized service station for service.

There are no express warranties except as contained in this limited warranty statement and implied warranties, including those of merchantability and fitness for a particular purpose, are limited to the period of warranty.

Our liability is limited solely to repair or replacement of nonconforming parts as set forth herein and does not include any liability for any incidental, consequential, or other damages of any kind. This warranty gives you specific legal rights, and you may also have other rights, which vary, from state to state.

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## TERMS OF SERVICE

- All standard CASTAIR terms & conditions apply.
- All prices are payable in U.S. funds & subject to change without notice.
- All prices are subject to availability.
- Damages from transit are the couriers responsibility.
- No returns accepted without prior authorization.
- New items returned are subject to 15% restocking fee.
- Any warranty claims must be pre-approved.
- Minimum parts order \$25 (+\$5 Handling fee).
- Payment terms are 3% cash upon delivery unless otherwise approved.
- Freight F.O.B. factory cash discount does not apply to freight charges.

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## OUR TEAM



