



ABAC / American IMC, Inc.

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1623 Cedar Line Drive Rock Hill, SC 29730

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Guide to Replacing HP50 with HP51

Starting in mid December 1997 (Serial#53300), all 10 HP electric packages were built with the HP51 compressor pump.

Parts needed for 10 HP: 8.2" sheave (2 groove) and 1 3/8" bushing for motor (IMC part#'s S2AK84H and SL138), 2 A-section belts, size 78 (IMC part# BA78).

Belts are sized for packages built on 120 gallon horizontal tanks.

The bolt pattern for the HP50 and HP51 are the same, however, because of the intercooler styling, the HP51 cannot be placed in the same bolt holes. New holes should be drilled in the baseplate 1/2" toward the front (opposite of beltguard). Make sure that the motor sheave and flywheel are properly aligned and that the belts are tight.

New discharge tubing will also be needed. We use 3/4" copper tubing (IMC part# DT006) and 2 new compression ferrells (IMC part# FIB06CF).



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**IMC SPECIFICATIONS
FASTENER TORQUES**

MODEL	CONROD BOLTS	HEAD BOLTS	CYL. BOLTS	BRG. BOLTS	CAP VALVE COVER	VALVE STUD	ACORN NUT	FLYWHEEL BOLT
D1	N/A	10-12	N/A	N/A	N/A	N/A	N/A	N/A
OL230	N/A	3-5	N/A	N/A	N/A	N/A	N/A	N/A
MM1-2	N/A	12-15	N/A	N/A	N/A	N/A	N/A	N/A
VM1-2	N/A	12-15	N/A	N/A	N/A	N/A	N/A	N/A
D2	N/A	12-15	N/A	N/A	N/A	N/A	N/A	N/A
D3	N/A	22-25	N/A	N/A	N/A	N/A	N/A	N/A
F1220	N/A	3-5	N/A	N/A	N/A	N/A	N/A	N/A
F1225	N/A	3-5	N/A	N/A	N/A	N/A	N/A	N/A
ND3	N/A	3-5	N/A	N/A	N/A	N/A	N/A	N/A
T8	9-11	11-13	N/A	10-12	N/A	N/A	N/A	22-25
D5	N/A	22-25	N/A	N/A	N/A	N/A	N/A	22-25
T10	20-22	20-22	16-19	19-22	N/A	N/A	N/A	33-37
B3000	N/A	18-20	18-20	5-7	N/A	N/A	N/A	18-20
B3800	N/A	18-20	18-20	5-7	N/A	N/A	N/A	18-20
B3801	N/A	18-20	18-20	5-7	N/A	N/A	N/A	18-20
CB3	20-22	20-22	N/A	19-22	N/A	N/A	N/A	22-25
T18(15)	20-22	20-22	16-19	19-22	N/A	N/A	N/A	33-37
T16	18-20	18-20	18-20	5-7	N/A	N/A	N/A	18-20
T25	20-22	20-22	16-19	19-22	N/A	N/A	N/A	33-37
T29	20-22	20-22	16-19	19-22	N/A	N/A	N/A	33-37
T29S	18-20	18-20	18-20	5-7	N/A	N/A	N/A	18-20
T39	20-22	30-33	16-19	19-22	N/A	N/A	N/A	33-37
HP50	26-30	177-207	120-145	30-33	18-22	15-17	29-33	33-37
HP51	26-30	64-66	120-145	30-33	N/A	N/A	N/A	33-37
HP80	26-30	177-207	120-145	30-33	18-22	15-17	29-33	33-37

* ALL TORQUES MEASURED IN FT/LBS.



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**IMC SPECIFICATIONS
COMPRESSOR PERFORMANCE DATA**

SINGLE STAGE DIRECT DRIVE

	D2	D3	OL230	F1220	F1255	ND3
HORSEPOWER	0.75	1.5	2	2	1.5	2
BORE	1.66	1.89	2.36	1.89	2.09	1.89
STROKE	1.58	1.57	0.94	1.49	1.49	1.49
RPM	3450	3450	3450	3450	3450	3450
PISTON DISP.	4.69	9.4	8.27	8.34	5.18	8.34
MAX PSIG	130	150	120	120	120	120
ACFM @ 100	3.04	5.59	4.1	4.53	3.57	5.59
ACFM @ 40	3.35	6.13	5.05	5.42	3.87	5.42
VALVING	FINGER	FINGER	REED	REED	REED	REED
LUBRICATION	SPLASH	SPLASH	OILLESS	SPLASH	SPLASH	SPLASH
FLYWHEEL O.D.	N/A	N/A	N/A	N/A	N/A	N/A
BELT (SECT. -GROOVE)	N/A	N/A	N/A	N/A	N/A	N/A
MAX RPM	N/A	N/A	N/A	N/A	N/A	N/A
MIN RPM	N/A	N/A	N/A	N/A	N/A	N/A
OIL CAPACITY (QT)	2.5 oz.	0.91	N/A	0.25	0.25	1.05

SINGLE STAGE BELT DRIVE

	B3000	B3000	B3800	B3801	T16
HORSEPOWER	2	5	3	5	5
BORE	2.36	2.36	2.36	2.36	2.75
STROKE	1.58	1.58	1.97	1.97	1.97
RPM	1095	1400	1195	1433	1200
PISTON DISP.	8.75	11.34	14.29	18.4	18.7
MAX PSIG	130	130	130	130	140
ACFM @ 100	6.5	7.41	8.83	12.35	13.35
ACFM @ 40	7.61	8.23	9.71	13.58	14.55
VALVING	FINGER	FINGER	FINGER	FINGER	FINGER
LUBRICATION	SPLASH	SPLASH	SPLASH	SPLASH	SPLASH
FLYWHEEL O.D.	11.02	11.02	13.78	13.78	14.56
BELT (SECT. -GROOVE)	A-1	A-1	A-1	A-1	A-1
MAX RPM	1400	1400	1450	1450	1400
MIN RPM	700	700	700	700	700
OIL CAPACITY (QT)	0.82	0.82	1.12	1.12	1.16

*NOTE: ALL PERFORMANCE DATA AT 14.6 PSIA, 60 DEGREES F, 0% R.H.
ALL DIMENSIONS IN INCHES.
B3800 & B3801 FLYWHEEL DIAMETER 13" PRIOR TO JANUARY 2001..



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**IMC SPECIFICATIONS
COMPRESSOR PERFORMANCE DATA
TWO STAGE BELT DRIVE**

	T29S		T39		
HORSEPOWER	3.00	5.00	5.00	7.50	
BORE	3.74 x 1.97		4.13 x 2.05		
STROKE	1.97	1.97	2.95	2.95	
RPM	1000	1400	960	1350	
PISTON DISP.	14.73	18.59	22.43	32.52	
MAX PSIG	175	175	175	175	
ACFM @ 100	12.05	15.33	18.50	25.25	
ACFM MAX	10.08	13.75	16.60	22.28	
VALVING	FINGER	FINGER	REED	REED	
LUBRICATION	SPLASH	SPLASH	SPLASH	SPLASH	
FLYWHEEL O.D.	14.50	14.50	15.00	15.00	
BELT (SECT. -GROOVE)	A-1	A-1	A-2	A-2	
MAX RPM	1400	1400	1400	1400	
MIN RPM	700	700	700	700	
OIL CAPACITY (QT)	1.49	1.49	1.25	1.25	
	HP51		HP80		
HORSEPOWER	10.00	15.00	15.00	20.00	25.00
BORE	5.12 x 2.76		5.12 x 2.76 (x2)		
STROKE	3.75	3.75	3.75	3.75	3.75
RPM	865	1165	700	820	1000
PISTON DISP.	44.49	51.69	75.64	88.99	111.24
MAX PSIG	175	175	175	175	175
ACFM @ 100	37.23	42.69	64.64	74.46	85.63
ACFM MAX	35.37	40.27	61.42	70.74	81.35
VALVING	DISC	DISC	DISC	DISC	DISC
LUBRICATION	SPLASH	SPLASH	SPLASH	SPLASH	SPLASH
FLYWHEEL O.D.	16.93	16.93	24.40	24.40	24.40
BELT (SECT. -GROOVE)	A-2	A-2	A-2	A-2	A-2
MAX RPM	1200	1200	1100	1100	1100
MIN RPM	700	700	700	700	700
OIL CAPACITY (QT)	2.27	2.27	4.65	4.65	4.65

*NOTE: All performance data is at 14.6 PSIA, 60 degrees F, 0% R.H.
All dimensions in inches.



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**IMC SPECIFICATIONS
COMPRESSOR PUMP DIMENSIONS**

	D2	D3	OL230	F1220	F1255	ND3	B3000	B3800
NO. OF CYLINDERS	1	1	1	1	1	1	2	2
BORE	1.66	1.89	2.36	1.89	2.09	1.89	2.36	2.36
STROKE	1.58	1.57	0.94	1.49	1.49	1.49	1.58	2.28
FLYWHEEL DIAMETER	N/A	N/A	N/A	N/A	N/A	N/A	11.02	13.00
BELT (SECT. -GROOVE)	N/A	N/A	N/A	N/A	N/A	N/A	A-1	A-1
WEIGHT (LBS)	36	36	24	26	26	36	24	23
DIMENSIONS								
L 'W'	6	10	6 1/2	6 1/2	6 1/2	10.04	11.02	13.00
W 'B'	13	15.7	15	16	16	15.67	10.94	11.38
H 'C'	12	13.00	10 1/2	10 1/2	10 1/2	13.00	12.75	13.56
'D'	6	5.75	5 1/2	5 1/2	5 1/2	5.75	7.44	6.19
'E'	3 1/2	3.55	2 1/2	2 1/2	2 1/2	3.55	5.62	5.50
	B3801	T16	T29	T29S	T39	HP50	HP51	HP80
NO. OF CYLINDERS	2	2	2	2	2	2	2	2
BORE								
LOW PRESSURE	2.36	2.75	3.35	3.74	4.13	5.12	5.12	5.12x2
HIGH PRESSURE	N/A	N/A	1.77	1.97	2.05	2.76	2.76	2.76x2
STROKE	2.28	1.97	2.56	1.97	2.95	3.74	3.74	3.74
FLYWHEEL DIAM.	13.00	14.56	15.00	14.50	15.00	19.70	16.93	24.40
BELT (SECT-GROOVE)	A-1	A-1	A-1	A-1	A-2	B-2	A-2	A-2
WEIGHT (LBS)	33	38	46	46	75	187	187	320
DIMENSIONS								
L 'W'	13.00	14.56	15.00	14.50	15.00	19.70	16.93	30.60
W 'B'	11.38	11.4	12.40	12.40	13.46	16.23	16.00	20.67
H 'C'	13.56	14.4	19.25	14.56	23.00	28.00	29.50	29.75
'D'	6.19	8.03	8.27	6.75	9.25	11.42	11.42	13.78
'E'	5.50	5.98	6.10	5.75	6.57	9.06	9.06	12.21



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OIL CAPACITIES AND RECOMMENDATIONS

PUMP	OUNCES	QUARTS
D2	2.50	0.08
D3	29.12	0.91
F1220	8.00	0.25
F1255	8.00	0.25
ND3	33.60	1.05
D5	29.12	0.91
T10	24.96	0.78
T12	15.04	0.47
B3000	29.12	0.91
B3800	35.84	1.12
B3801	35.84	1.12
T18 (15)	47.68	1.49
T16	37.12	1.16
T29	47.68	1.49
T29S	47.68	1.49
T39	40.00	1.25
HP50	72.64	2.27
HP51	72.64	2.27
HP80	148.80	4.65

TEMPERATURE RANGE OIL WT.

Cold Climates (Below 30F) 20WT

Moderate Climates (30F-90F) 30WT

Hot Climates (Above 90F) 40WT

OIL TYPE: Use a high quality non-detergent petroleum based reciprocating compressor oil.

B3800 and B3801 Require 40 WT oil

Oil should be changed as required (at least every 3 months or 300 hours).



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**ELECTRICAL SPECIFICATIONS
AMERICAN IMC COMPRESSORS**

PUMP	HP	MOTOR RPM	AVG. RUN AMPS	FULL LOAD AMPS	SERVICE FACTOR	VOLTS	PHASE
B3800	2	3450	9/18	9.5/19	1	115/230	1
B3800	3	3450	12.1	15	1	208/230	1
B3800	5	3450	12.52	15	1	208/230	
B3801	5	3450	12.72	15	1	208/230	1
T29S	3	3450	14.80	15	1	208/230	1
T29S	5	3450	18.32	22	1	208/230	1
T29S	5	3450	10.84/5.42	11.40/5.70	1	208-230/460	3
T39	5	1725	19.80	23	1.15	208-230	1
T39	5	1760	12.7/6.4	14.0/7.0	1.15	208-230/460	3
T39	7.5	3450	27.60	32	1.15	208-230	1
HP51	10	1760	27.83/13.92	28.0/14.0	1.15	208-230/460	3
HP51	15	1760	34.46/17.23	39/19.50	1.15	230/460	3
HP80	15	1760	36.5/18.2	40.0/20.0	1.15	208-230/460	3
HP80	20	1760	48.8/24.4	50.0/25.0	1.15	208-230/460	3
HP80	25	1760	61.6/30.8	64.0/32.0	1.15	208-230/460	3

NOTE: AVG. RUN AMPS represents the average actual amp draw for each group of machines listed. Figures given are to be used for GENERAL GUIDELINES ONLY. Test sheet data was compiled from several of each type of machine. Actual run amps for individual machines will vary slightly.



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IMC SPECIFICATIONS
OVERHAUL SPECIFICATIONS

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PUMP	T29 (HP)	T29 (LP)	T35/T39 (HP)	T35/T39 (LP)
NOMINAL DIAMETER	45	85	52	105
RING END GAP	0.2-0.4 MM 0.00787-0.01570 IN	0.3-0.5 MM 0.01180-0.01960 IN	0.2-0.4 MM 0.00787-0.01570 IN	0.4-0.6 MM 0.0157-0.0236 IN
RING TO PISTON	1.4-1.5 MM	0.9-1.1 MM	1.3-1.4 MM	1.5-1.6 MM
RING TO PISTON	0.05510-0.05900 IN	0.03540-0.04330 IN	0.05110-0.05510 IN	0.0590-0.0629 IN
PISTON TO CYLINDER	0.02-0.05 MM	0.07-0.0115 MM	0.035-0.055 MM	0.070-0.121 MM
PISTON TO CYLINDER	0.000787-0.00196 IN	0.00275-0.00452 IN	0.00137-0.00216 IN	0.00275-0.00476 IN
CLEARANCE				
PISTON DIAMETER	44.965-44.95 MM 1.7702-1.7696 IN	84.91-84.94 MM 3.3429-3.3440 IN	51.96-51.95 MM 2.0456-2.0452 IN	104.90-104.93 MM 4.1299-4.1311 IN
CYLINDER DIAMETER	45.00-44.985 MM	85.01-85.025 MM	51.99-52.005 MM	105.000-105.021 MM
CYLINDER DIAMETER	1.7716-1.7710 IN	1.7716-1.7710 IN	2.0470-2.0474 IN	4.1338-4.1346 IN
CRANKSHAFT TO ROD	0.009-0.051 MM	0.009-0.051 MM	0.009-0.041 MM	0.009-0.041 MM
CRANKSHAFT TO ROD	0.00035-0.00200 IN	0.00035-0.00200 IN	0.00035-0.00151 IN	0.00035-0.00151 IN
CLEARANCE				
CRANKSHAFT DIAMETER	28.00-27.97 MM 1.1023-1.1011 IN	28.00-27.97 MM 1.1023-1.1011 IN	30.00-29.98 MM 1.1811-1.1803 IN	30.00-29.98 MM 1.1811-1.1803 IN
PUMP	HP51 (HP)	HP51 (LP)	HP80 (HP)	HP80 (LP)
NOMINAL DIAMETER	70	130	70	130
RING END GAP	0.3-0.5 MM 0.01180-0.01960 IN	0.4-0.6 MM 0.0157-0.0236 IN	0.3-0.5 MM 0.01180-0.01960 IN	0.4-0.6 MM 0.0157-0.0236 IN
RING TO PISTON	1.4-1.5 MM	1.8-1.9 MM	1.4-1.5 MM	1.8-1.9 MM
RING TO PISTON	0.0551-0.0590 IN	0.0708-0.0748 IN	0.0551-0.0590 IN	0.0708-0.0748 IN
PISTON TO CYLINDER	0.060-0.095 MM	0.12-0.17 MM	0.060-0.095 MM	0.12-0.17 MM
PISTON TO CYLINDER	0.00236-0.00374 IN	0.00472-0.00669 IN	0.00236-0.00374 IN	0.00472-0.00669 IN
CLEARANCE				
PISTON DIAMETER	69.950-69.935 MM 2.7539-2.7533 IN	129.88-129.85 MM 5.1133-5.1122 IN	69.950-69.935 MM 2.7539-2.7533 IN	129.88-129.85 MM 5.1133-5.1122 IN
CYLINDER DIAMETER	70.01-70.03 MM 2.7562-2.7570 IN	130.00-130.02 MM 5.1181-5.1188 IN	70.01-70.03 MM 2.7562-2.7570 IN	130.00-130.02 MM 5.1181-5.1188 IN
CRANKSHAFT TO ROD	0.009-0.041 MM	0.019-0.044 MM	0.019-0.044 MM	0.019-0.044 MM
CLEARANCE	0.00035-0.00151 IN	0.00074-0.00173 IN	0.00074-0.00173 IN	0.00074-0.00173 IN
CRANKSHAFT DIAMETER	40.000-39.979 MM 1.5748-1.5739 IN	40.000-39.979 MM 1.5748-1.5739 IN	52.990-52.977 MM 2.0862-2.0857 IN	52.990-52.977 MM 2.0862-2.0857 IN



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**IMC SPECIFICATIONS
PUMP UP TIME**

PUMP	HP	GALLON TANK	0 TO PRESSURE	AVERAGE TIME (MIN. : 100ths)
B3000	5	60	140	10.33
B3800	5	60	130	6.00
B3801	6	60	130	5.68
T16	5	60	140	6.36
T29	3	30	150	4.33
	3	60	150	8.95
	5	60	150	6.99
	5	80	150	10.27
T29S	3	30	150	4.42
	5	80	150	8.75
T39	5	60	175	6.33
	5	80	175	7.67
	7.5	80	175	5.18
HP50	7.5	80	175	6.32
	10	80	175	4.26
	7.5	120	175	8.24
	10	120	175	6.59
HP51	10	80	175	3.65
	10	120	175	5.70
	15	120	175	4.30
HP80	15	120	175	3.87
	15	200	175	5.90
	20	120	175	3.20
	20	200	175	5.10

NOTE: The times given here are averages of times compiled from IMC test data. Therefore they do not represent any single machine, but the average of a group of the same model and should be used ONLY AS GENERAL GUIDELINES. Actual pump up times for an individual machine will vary slightly.



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**IMC SPECIFICATIONS
BARE COMPRESSOR INSTALLATION DATA**

PUMP	HP RANGE	MIN. RPM	MAX. RPM	OIL CAP.	MAX. PRESS.	FLYWHEEL DIAMETER	BELT SECT. & GROOVE
D5	1.5-5.0	800	1800	0.91	130	11.02	A-1
T10	1.5-5.0	700	1400	0.78	150	11.02	A-1
B3000	1.5-5.0	700	1400	1.00	130	11.02	A-1
B3800	2.0-5.0	700	1400	1.12	130	13.78	A-1
B3801	3.0-5.0	700	1400	1.12	130	13.78	A-1
T18 (15)	3.0-5.0	700	1400	1.49	140	13.77	A-1
T16	3.0-6.0	700	1400	1.49	140	14.56	A-1
T29	3.0-5.0	700	1400	1.49	175	15.00	A-1
T29S	3.0-5.0	700	1400	1.49	175	13.78	A-1
T39	5.0-7.5	700	1400	1.25	175	15.00	A-2
HP50	7.5-10.0	700	1000	2.27	175	19.70	B-2
HP51	10.0-15.0	700	1200	2.27	175	16.93	A-2
HP80	15.0-25.0	700	1100	4.65	175	24.40	A-2

- 1) Compressor rotation is **CLOCKWISE** when facing the oil level sight glass. Incorrect rotation may damage the compressor.
- 2) Use only a quality grade 20 wt. or 30 wt. non-detergent compressor oil.
- 3) To calculate motor or engine pulley size, use the following formula:

$$\text{Motor Pulley Diameter} = \frac{\text{Compressor Flywheel Diameter} \times \text{Compressor RPM}}{\text{Motor RPM}}$$



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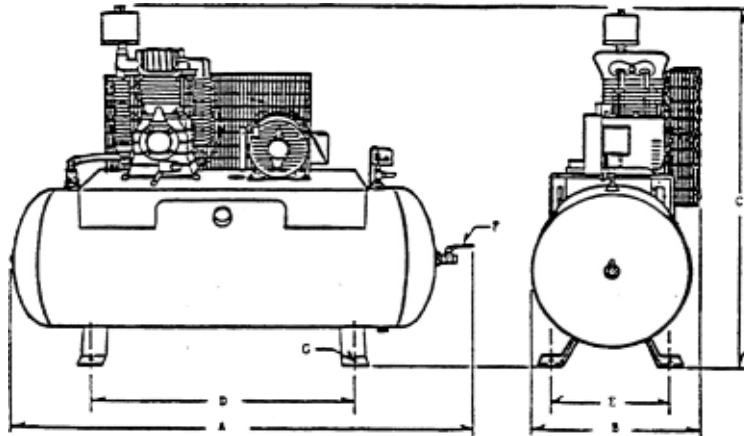
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**IMC SPECIFICATIONS
HORIZONTAL PACKAGE DIMENSIONS**



MODEL NO.	A (L)	B (W)	C (H)	D FOOT HOLE L	E FOOT HOLE W	F BALL VALVE	G FOOT DIAM.
218H	71	24	40 1/2	36	19	1/2	9/16
318H	71	24	49	36	19	3/4	9/16
338H	71	24	49	36	19	3/4	9/16
318HL	71	24	49	36	19	3/4	9/16
5312H	77	26	58 1/2	42	21	3/4	9/16
5312HL	77	26	58 1/2	42	21	3/4	9/16
5312HE	77	28	58 1/2	42	21	3/4	9/16
8312H	77	28	61	42	21	1	9/16
T29A303H	44 1/2	19	41	20	13	3/4	9/16
T39A801H	71	24	49	36	19	3/4	9/16
T39A803H	71	24	49	36	19	3/4	9/16
HP51B803H	71	24	54	36	21	3/4	9/16
HP80A2003H	80	36	67	42	27	1	9/16
HP80B2003H	80	36	67	42	27	1	9/16
HP80C1203H	77	28	61	42	21	1	9/16
HP80C2003H	80	36	67	42	27	1	9/16
3112D	77	27	56	42	27	1	9/16
3120DL	86	32	61 1/2	42	27	1	9/16
5312D	77	24	62 1/2	42	27	1	9/16
5320D	86	32	69	42	27	1	9/16
8320D	98	45 1/2	76	42	40	1	9/16
8324D	98	45 1/2	76	54	40	1	9/16

SKID DIMENSIONS 60-80 72 1/2 x 36

SKID DIMENSIONS 120+ 83 x 40 1/2

*Due to manufacturing procedures, dimensions will vary slightly.



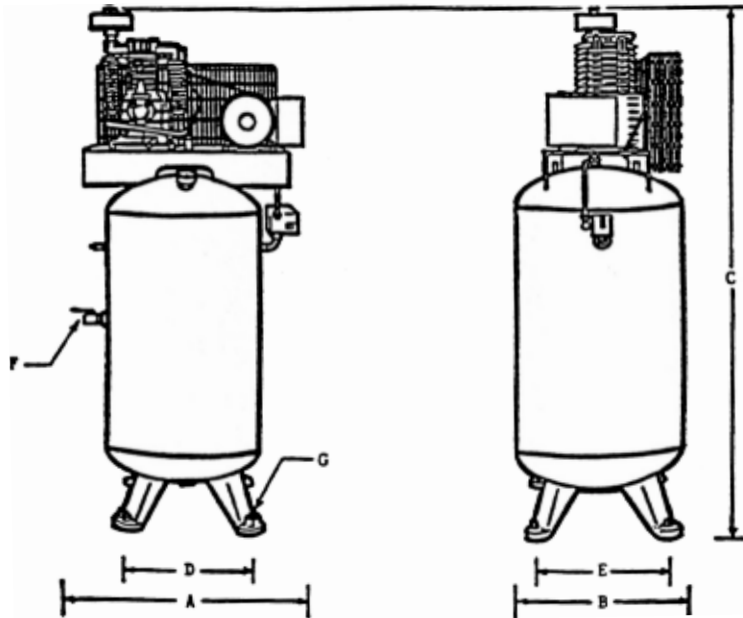
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**IMC SPECIFICATIONS
VERTICAL PACKAGE DIMENSIONS**



MODEL NO.	A (L)	B (W)	C (H)	D FOOT PRINT	E FOOT PRINT	F BALL VALVE	G FOOT DIAM.
5061V	30	22	66	16-1/4	16-1/4	1/2	9/16
6061V	30	22	68	16-1/4	16-1/4	1/2	9/16
216V	31	22	72	16-1/4	16-1/4	1/2	9/16
218V	36	24	73	18-1/2	18-1/2	1/2	9/16
318V	36	24	77	18-1/2	18-1/2	3/4	9/16
338V	36	24	77	18-1/2	18-1/2	3/4	9/16
318VN	36	24	77	18-1/2	18-1/2	3/4	9/16
318VL	39	24	77	18-1/2	18-1/2	3/4	9/16
5312V	41	30	86	18 3/8	18 3/8	3/4	11/16

SKID DIMENSIONS 60 & 80 GALLON: 46 1/2 x 42 1/4

120 GALLON: 60 x 60

* Due to manufacturing procedures, dimensions may vary slightly.



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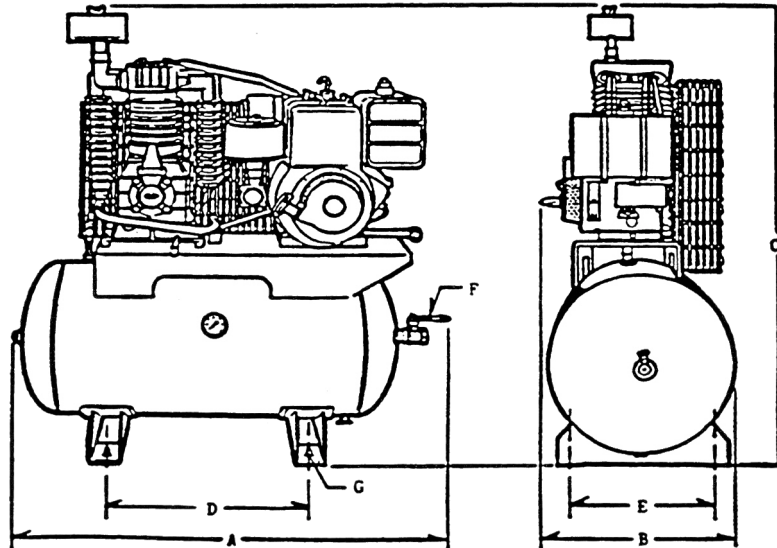
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**IMC SPECIFICATIONS
STATIONARY GAS COMPRESSOR DIMENSIONS**



MODEL NO.	A (L)	B (W)	C (H)	D FOOT HOLE L	E FOOT HOLE W	F BALL VALVE	G FOOT DIAM.
2GTHK	36	20	30	21 3/4	12 1/2	3/4	3/8
3GTHV	36	20	34	21 3/4	12 1/2	3/4	3/8
2G3HK	44 1/2	19	41	20	13	1/2	3/8
3G3HV	44 1/2	19	45	20	13	3/4	3/8
3G3HH	44 1/2	19	45	20	13	3/4	3/8
3G3HHL	44 1/2	19	45	20	13	3/4	3/8
3G3HK	44 1/2	19	45	20	13	3/4	3/8
3G3HKL	44 1/2	19	45	20	13	3/4	3/8
5G3HV	44 1/2	23 1/2	47	22	20	3/4	3/8 SLOT
5G3HK	44 1/2	23 1/2	47	22	20	3/4	3/8 SLOT
5GBRV	42	22	31	40	15 1/2	3/4	3/8
5GBRK	42	22	31	40	15 1/2	3/4	3/8

5GBRV & 5GBRK are base plate mounted with a remote tank. 30 gallon tank dimensions:
44 1/2 L x 19 W x 22 H

SKID DIMENSIONS: 46 1/2 x 42 1/4

*Due to manufacturing procedures, dimensions may vary slightly.



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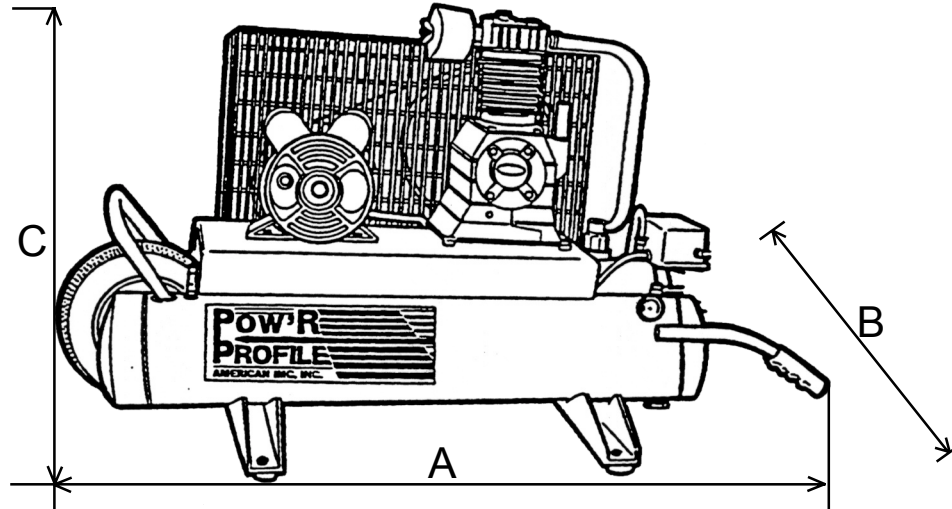
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**IMC SPECIFICATIONS
TWIN TANK PACKAGE DIMENSIONS**



MODEL NO.	A (L)	B (W)	C (H)	D (FOOT HOLE L)	E (FOOT HOLE W)	F (BALL VALVE)	G (FOOT DIAM.)
D201	18	12 1/2	20	N/A	N/A	1/4	N/A
D2011	22	14 1/2	22	N/A	N/A	1/4	N/A
T2030	46	23	26	N/A	N/A	3/8	N/A
T3020	46	23	26	N/A	N/A	3/8	N/A
T3030	46	23	26	N/A	N/A	3/8	N/A
T507	46	23	31	N/A	N/A	3/8	N/A
T508	46	23	36	N/A	N/A	3/8	N/A
TH5030	46	23	26	N/A	N/A	3/8	N/A
TB5060	46	23	26	N/A	N/A	3/8	N/A
TH5531	46	23	26	N/A	N/A	3/8	N/A
TB507	46	23	31	N/A	N/A	3/8	N/A
TH557	46	23	31	N/A	N/A	3/8	N/A
TV907	46	23	31	N/A	N/A	3/8	N/A
TV908	50	29	36	N/A	N/A	3/8	N/A
LH5531	45	22	37	N/A	N/A	3/8	N/A
LV907	45	22	37	N/A	N/A	3/8	N/A
LV908	45	22	42	N/A	N/A	3/8	N/A

*Due to manufacturing procedures, dimensions may vary slightly.

** Ball valves are NPT.



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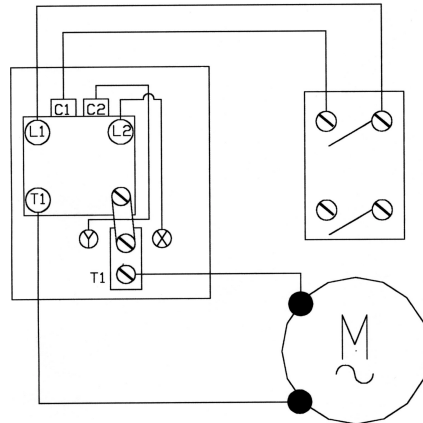
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1 PHASE UNITS



PRESSURE SWITCH

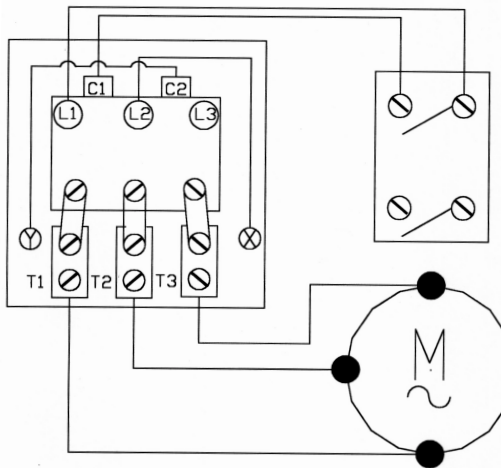
NOTE: SWITCH WIRED FOR PILOT DUTY. ONLY ONE SET OF CONTACTS USED.
DO NOT CONNECT LINE POWER TO OTHER SET OF CONTACTS

SINGLE PHASE MOTOR

MODELS

- 318V
- 318H
- 318VL
- 318HL

3 PHASE UNITS



PRESSURE SWITCH

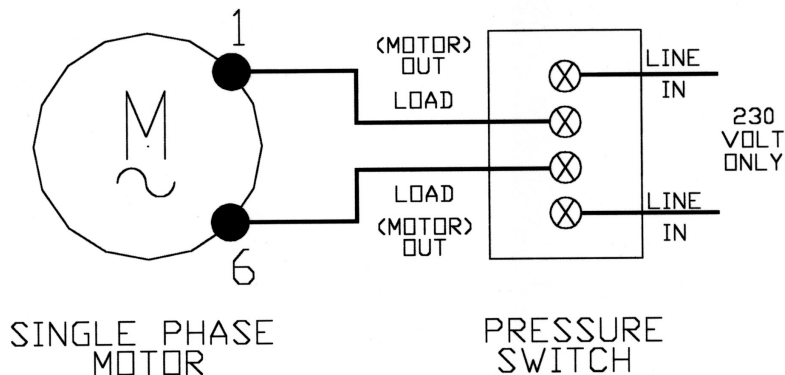
NOTE: SWITCH WIRED FOR PILOT DUTY. ONLY ONE SET OF CONTACTS USED.
DO NOT CONNECT LINE POWER TO OTHER SET OF CONTACTS

THREE PHASE MOTOR

MODELS

- 338V
- 338H
- 338VL
- 338HL
- 5312H
- 5312V

For Units Not Requiring Magnetic Starters



SINGLE PHASE MOTOR

PRESSURE SWITCH

MODELS

- 5061V
- 6061V
- 218V
- 318VN
- 318HN



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IMC SPECIFICATIONS
TNT DUAL CONTROL OPERATION

Dual control allows the compressor to be run in either in automatic STOP-START mode, or in a CONSTANT-RUN mode. Constant run is useful in applications where your power source at the job site may at times be marginal, or where using the compressor in the auto start-stop mode with air demand close to the capacity of the compressor may at times require frequent motor starting.

The dual control mode allows the motor to run continuously, with an automatic unloading of the pump when tank pressure is at its maximum setting. When operating unloaded, the compressor discharge is vented to the atmosphere instead of into the tank, and the motor continues to run without the normal load and with greatly reduced amp draw. When the pressure in the tank falls below a preset level, the pilot valve switches back to a load condition, and the tank is again filled to the proper pressure. This enhances motor life, particularly where electrical power may be marginal, or where extension cords are used. (Always be sure that you are using a properly sized extension cord).

AUTOMATIC START-STOP

Your Pow'R Profile compressor is set at the factory for automatic start-stop control. This function will shut off the motor when tank pressure is reached; normally this is 140 psi. on single stage compressors, and 175 psi. on two stage compressors. When tank pressure falls below a preset level, usually about 30 psi. below the shutoff setting, the tank-mounted pressure switch will start the motor and the compressor will pump air into the tank. This function is controlled by the PRESSURE SWITCH.

CONSTANT RUN

If your air compressor is equipped with optional dual control, the compressor can be set for constant run. In this mode, the tank pressure is regulated by a PILOT VALVE, which is mounted alongside the pressure switch. The pilot valve is factory preset to unload at 130 psi and load at 100 psi. The factory presetting cannot be adjusted.

DO NOT ATTEMPT TO ADJUST PRESSURE SWITCH OR PILOT VALVE SETTINGS, AS ANY ATTEMPTED ADJUSTMENT WILL VOID THE WARRANTY ON THESE ITEMS.

MODE SETTING

To set the compressor for AUTO START-STOP, the knurled knob on the top of the pilot valve should be turned to the right (clockwise) until snug.

To set the compressor for CONSTANT RUN, the knurled knob on top of the pilot valve should be turned to the left (counter-clockwise) until snug.

