

Sertco Model 350



SPECIFICATIONS

RPM RANGE : 1100-2100

HORSEPOWER : 200 Continuous

MAX SUCTION: 80 PSIG

MAX DISCHARGE: 350 PSIG

PISTON CLEARANCE: 9.5%

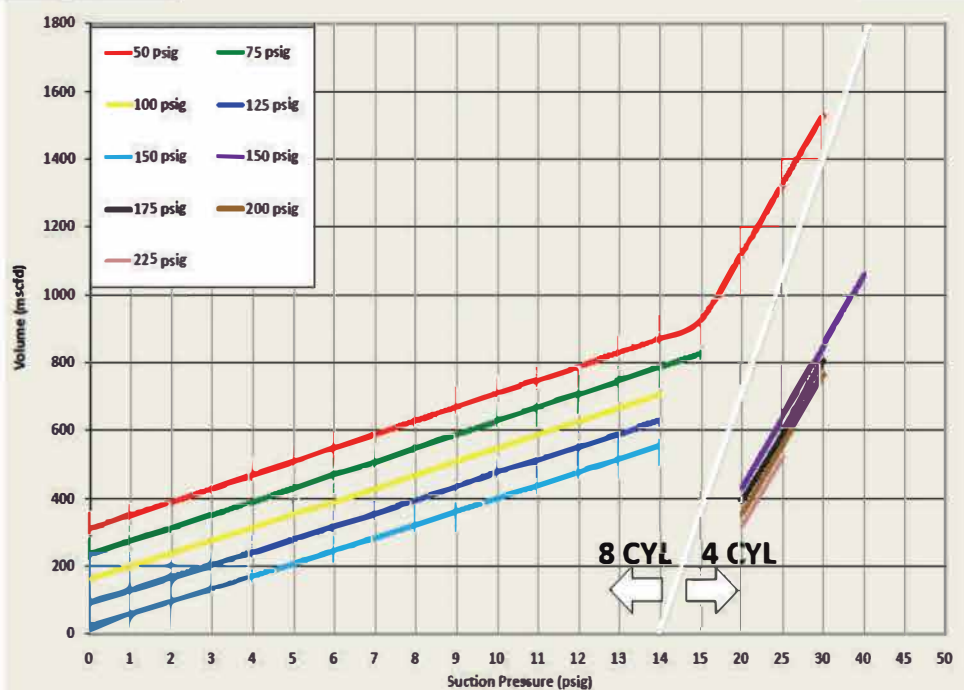
SIZE: 29" L X 27" W X 11" H



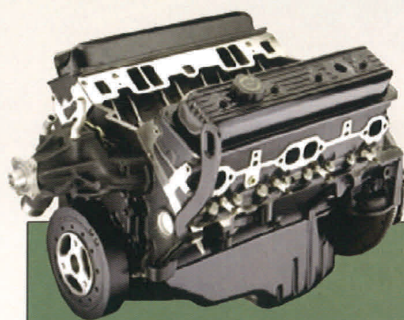
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Flow Chart Design Conditions:
Elevation = 500 ft
Specific Gravity = .65
BTU Rating = 1000

Flow Chart for Model 175/350 High Pressure with PSI Certified 5.7L Driver



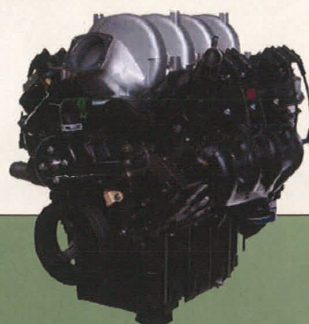
Sertco Model 350



GM 5.7L DRIVER

85HP @ 2100 RPM

- Hydraulic roller lifter camshaft is optimized for maximum performance
- Sintered powdered-metal exhaust valve seat inserts for enhanced durability
- Induction-hardened inlet valve seats for maximum durability
- Exhaust valve rotators improve valve and valve seat durability.
- Externally balanced engine
- Positive inlet valve stem seals to control oil consumption
- Aluminum intake manifold



PSI 8.8L DRIVER

150HP @ 2100 RPM

- Forged and nitrided steel crankshaft crates durable block capable of 1,000ft of torque
- Tuned long-runner which provides higher torque while special air gap design keeps engine air cooler to improve efficiency
- Modernized, heavy-duty, high-flow heads create fast burn to improve efficiency and reduce emissions

Sertco Solutions

As wells deplete, liquid loading problems often result in dramatic production losses. Our Sertco Compressor Packages can unload those down hole fluids to increase gas production and the longevity of the well.

We understand no two wells are alike, that is why we offer a wide range of drivers and options to tailor your package.

For example:

- Roof with or without batwings
- Trailer
- C1D2 upgrade to ignition and alternator
- Auto Start/Stop
- Auto Bypass
- Dump to Discharge
- High Discharge Recycle
- Low Suction Recycle



MODEL 350 SERTCO COMPRESSOR SPECIFICATION (Gas Engine Driven)

SPECIFICATIONS:

Gas Engine Driven

Brand	: PSI-WeiChai
Model	: WP10NA
Capacity	: 9.7 Litre
Cylinder	: 6
Horse Power (HP)	: 150 HP
Gas Consumption	: 25 MCF at MAX HP (150HP)
Area Classification	: Class 1 Div. 2
Ignition System	: Altronic CD200 System Clas 1 Div 2.

Compressor

Brand	: Sertco
Model	: 350 Sertco Single Stage High Pressure
Compressor Type	: Reciprocating
Cylinder Qty	: 8 Cylinders
Horse Power (HP) Rating	: 150 HP
Compressor Ratio	: 8:1
Suction Pressure Range	: 0 – 100 psig
Discharge Pressure Range	: 100 – 350 psig
Flow Rate Range	: up to 2.5 MMSCFD

Scrubber/Blowcase

Brand	: GSM (Global Systems Manufacturing)
Capacity	: 100 bopd
Operating Pressure	
Maximum Pressure Rating	: 500 PSI @ 200 F/93 C
Size	: 20" ASME
Material	: SA-516 Grade 70 .375"

Cooler

Brand	: ETR (East Texas Radiator)
Model	: 48-34-S29-VFE
Capacity	: 300,000 BTU/hr at 1.4 MMSCFD
Material	: SA-214 Carbon Steel Tubes with Alum Fin
Operating Temp	: 350 F @ 400 PSI

Control System

- Controller : Class 1 Div 2 certified Altronic DE1550
- Flow Meter : SUREFLO 2" GAS FLOWMETER
- Valve : SHUT DOWN VALVES
(SDV - SUCTION AND DISCHARGE)
Auto Bypass
- Valve : KIMRAY HP SCV
- Valve : KIMRAY HP DIFFERENTIAL CV

Controls & Instrumentation

Shutdowns (S) and Warnings (W)

- Low/High Suction pressure (S,W)
- Low/High Discharge pressure (S,W)
- Left/Right Side Compressor Discharge Temperature (S,W)
- High Scrubber Fluid Level (S)
- Overspeed (S)
- Low Engine and Compressor Oil Level (S)
- Low Engine and Compressor Oil Pressure (S,W)
- Engine Oil Temp (S,W)
- Engine Coolant Temperature (S,W)
- Engine and Compressor Vibration (S,W)
- Engine Air Intake Pressure (S,W)
- Engine Oxygen Sensor (S,W)
- Underspeed (S)

Package Information

- Dimensions 5 m (L) x 1.83 m (W) x 1.8 m (H)
- Weight 11,900 lbs/5398 kg
- Skid on skid with bumpers

Miscellaneous

- All inspection and fill points accessible from outside
- Easy access to all service points
- Designed to be readily moved and or replaced for major overhauls or servicing
- All service points are reachable at ground level
- All fluid level indicators are easily viewed from outside

Compliance

- Class 1 Div 2 end items and electrical components. Class 1 Div 2 Control Panel and wiring.
- ASME Coded Scrubber and Gas Cooler

5.7L & 6.7L/350 SINGLE STAGE FLOW																											
	50 psid			75 psid			100 psid			125 psid			150 psid			175 psid			200 psid			225 psid			250 psid		
	1000 rpm	1500 rpm	1800 rpm	1000 RPM	1500 rpm	1800 rpm	1000 RPM	1500 rpm	1800 rpm	1000 RPM	1500 rpm	1800 rpm	1000 RPM	1500 rpm	1800 rpm	1000 RPM	1500 rpm	1800 rpm	1000 RPM	1500 rpm	1800 rpm	1000 RPM	1500 rpm	1800 rpm	1000 RPM	1500 rpm	1800 rpm
0	173	259	310																								
1	193	288	345																								
2	212	317	380																								
3	232	347	415	194	289	346																					
4	252	377	451	213	319	381																					
5	272	407	487	233	348	417	195	292	350																		
6	292	436	522	252	377	452	214	321	384																		
7	312	466	558	272	407	487	234	350	418																		
8	332	496	594	292	437	523	254	379	454	217	324	387															
9	352	526	630	312	466	558	273	408	488	236	352	421															
10	372	556	666	331	496	593	293	438	524	255	381	456	219	326	390												
11	392	586	702	351	525	629	312	467	559	275	410	491	238	355	425												
12	412	617	738	371	555	664	332	496	594	294	439	525	258	383	459	222	330	395									
13	433	647	775	391	585	700	352	526	629	314	469	561	276	413	494	241	360	430									
14	453	677	811	411	615	736	372	555	665	333	498	596	296	442	528	260	388	464									
15	473	708	847	431	645	772	391	585	700	353	527	631	315	471	563	279	417	499	244	364	436						
16	493	738	884	451	675	808	411	615	736	372	556	666	334	500	598	298	446	533	263	393	469						
17	514	768	920	471	705	844	431	644	771	392	586	701	354	529	633	318	475	568	282	421	504						
18	534	799	957	492	735	880	451	674	807	412	616	737	373	558	668	337	504	603	301	450	539						
19	555	829	993	512	765	916	471	704	843	432	645	772	393	588	703	357	533	637	321	479	573						
20	575	860	1030	532	796	953	491	734	879	452	675	807	414	617	738	377	562	672	341	508	607	306	454	543			
21	595	891	1066	552	826	989	511	764	915	471	704	843	433	646	774	396	591	707	360	537	642	324	484	578			
22	616	921	1103	573	856	1025	531	794	951	491	734	879	452	676	809	415	620	742	379	566	677	343	513	613			
23	636	952	1140	593	887	1061	551	824	987	511	764	914	472	705	844	435	649	777	398	595	711	362	541	647			
24	657	983	1177	613	917	1098	571	854	1023	531	794	950	492	735	880	455	679	813	418	624	747	382	570	682			
25	677	1013	1213	633	947	1134	592	885	1059	551	824	986	512	765	916	474	709	848	438	654	782	402	600	718	366	546	0
26	698	1044	1250	654	978	1171	612	915	1095	571	854	1022	531	795	951	494	738	884	457	683	817	421	629	752	385	575	0
27	719	1075	1287	674	1008	1207	632	945	1132	591	884	1058	551	825	987	514	768	919	477	713	853	440	659	788	404	604	0
28	739	1106	1324	695	1039	1244	652	975	1168	611	914	1094	571	854	1022	533	797	954	496	741	887	459	686	0	423	632	0
29	760	1137	1361	715	1070	1281	672	1006	1204	631	944	1130	591	884	1058	553	827	989	516	771	922	479	716	0	442	661	0
30	781	1168	1398	736	1100	1317	693	1036	1240	651	974	1166	611	913	1093	573	856	1025	535	800	957	499	745	0	462	0	0

* Values in orange are 6.7L only with 6 cylinders loaded on compressor.

* Values in red are 6.7L only with 8 cylinders loaded.

* Values in blue are 6.7L with 8 cylinders, 5.7L with 6 cylinders at reduced flow