

**GAS COMPRESSOR**

**UNIT: CB43**

**PERFORMANCE**

Base Horsepower	145 HP
Packager	Jiro
Year Built	2005
Suction Pressure (typical range) *	0-50 PSI
Discharge Pressure (maximum) *	150-320 PSI
Flow Rate (typical range) *	0.5 – 2.5 MMSCFD
Gas Source	Sour
<i>*Performance is subject to confirmation on site specific process conditions</i>	

**MAJOR EQUIPMENT**

Gas Compressor	
Trailer Mounted	

**DRIVER**

Style	Caterpillar 3306 NA
Rating	145 HP
Output (RPM)	1800
Serial #	G6X02430



**COMPRESSOR**

Make	Gardner Denver
Model	SSMG99D
Throws	
Stages	
Stroke	
Rated RPM	745 RPM
Distance Pieces	
Serial #	S228027



**COOLER**

Make	Wuxi Guanyun Heat Exchanger
Model	GHTJ - 1600
Louvres	
Fan Drive (electric/jackshaft)	

**SCRUBBERS**

	Size	CRN	Serial Number	MAWP	Temp	RT	HT
Oil Separator		R6697.213	9896	250 PSI	250 F		
Inlet Separator	24" x 48"			285 PSI	100 F		

**PULSATION**

	Manuf.	CRN	Serial Number	MAWP	Temp	RT HT
N/A						

**PSV's**

	Set Pressure	Size
Stage 1 Suction	150 PSI	2 x 2
Stage 1 Disch.	300 PSI	1 x 1.5"

**CONTROL PANEL**

Make	Ahronic
Model	
HMI / PLC	

**END DEVICES**

	Quantity
LEL Detection	
H2S Detection	
Fire Detection	

**SKID CONNECTIONS**

Suction Inlet Flange	
Discharge Flange	
Flare	
Drain	

**DRAIN TANK**

Capacity	In Skid
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**SHIPPING DIMENSIONS**

Width	9'
Length	28' 5"
Height	12' 9"
Weight Estimate (dry)	22,360 LBS

**CERTIFICATION**

Vessel	
Piping	
Province(s) of Registration	
Area Classification	
Service	Sour

CB 43 - trailer mount

**7400 Series 145 hp JIRO Enerflex**  
**SSM (3.0Vi) - Gardner Denver Gas Screw Compressor Flow Table At 1800 RPM**

**DISCHARGE PRESSURE (psig)**

Pressure	DISCHARGE PRESSURE (psig)														
	50	60	80	100	120	140	160	180	200	220	240	260	280	300	320
0	0.494	0.493	0.490	0.487	0.496	0.493	0.490	0.488	0.485	0.386	0.383	0.333	0.284	0.235	0.187
	48	54	66	77	90	101	111	121	128	114	118	112	105	101	98
5	0.684	0.683	0.680	0.696	0.693	0.690	0.687	0.684	0.545	0.475	0.473	0.404	0.402	0.333	0.299
	49	56	69	84	96	107	118	129	118	117	124	122	125	120	115
10	0.874	0.873	0.870	0.893	0.890	0.887	0.884	0.705	0.702	0.613	0.523	0.435	0.347	0.345	x
	51	57	71	87	100	112	124	115	124	123	121	120	119	125	x
15	1.064	1.063	1.060	1.089	1.086	1.083	1.081	0.862	0.752	0.643	0.534	0.533	0.425	x	x
	52	59	71	89	102	116	128	119	119	118	118	125	124	x	x
20	1.255	1.254	1.251	1.286	1.283	1.280	1.277	1.020	0.890	0.761	0.633	0.505	x	x	x
	50	59	74	89	104	118	130	122	122	122	121	122	x	x	x
25	1.446	1.444	1.442	1.483	1.480	1.477	1.179	1.177	1.028	0.879	0.731	0.584	x	x	x
	46	57	75	91	104	119	113	125	125	125	124	125	x	x	x
30	1.637	1.636	1.633	1.680	1.677	1.674	1.337	1.168	0.999	0.831	0.664	x	x	x	x
	40	54	75	93	104	119	114	116	117	118	120	x	x	x	x
35	1.829	1.827	1.824	1.876	1.873	1.871	1.494	1.305	1.117	0.929	0.742	x	x	x	x
	37	49	72	94	108	119	114	117	119	120	122	x	x	x	x
40	2.020	2.019	2.016	2.073	2.070	2.067	1.652	1.443	1.235	1.028	0.821	x	x	x	x
	34	41	69	93	109	122	114	117	119	121	123	x	x	x	x
45	2.211	2.210	2.209	2.270	2.267	2.264	1.809	1.581	1.353	1.126	0.900	x	x	x	x
	30	42	71	91	110	124	116	117	120	122	125	x	x	x	x
50	2.402	2.400	2.399	2.467	2.464	2.461	1.966	1.719	1.471	1.225	0.979	x	x	x	x
	27	33	67	88	109	125	118	118	119	122	125	x	x	x	x

- COMPRESSOR LOAD FACTOR AT 80%
- COMPRESSOR LOAD FACTOR AT 70%
- COMPRESSOR LOAD FACTOR AT 60%
- COMPRESSOR LOAD FACTOR AT 50%
- COMPRESSOR LOAD FACTOR AT 40%
- Above flow rates are calculated in mmscfd at 1800 RPM +/- 10%
- BRAKE HORSEPOWER (125 hp usable) +/- 10%
- Low Differential Pressure
- Consult Engineering

Operating Conditions: Ambient Temperature 95 deg. F: Inlet Temperature 60 deg.F: Elevation 2500 feet: SG = 0.65: RPM = 1800  
 This chart is created by Jiro Engineering using Gardner Denver sizing program - Rotosize version 4.40.