

GAS COMPRESSOR

UNIT: CB45

PERFORMANCE

Base Horsepower	95HP
Packager	Jiro
Year Built	2007
Suction Pressure (typical range) *	0-50 PSI
Discharge Pressure (maximum) *	50-200 PSI
Flow Rate (typical range) *	0.5 – 0.9 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 3304 NA
Rating	95 HP
Output (RPM)	1800
Serial #	N4F02168



COMPRESSOR

Make	Gardner Denver
Model	SSMG99D
Throws	
Stages	
Stroke	
Rated RPM	742 RPM
Distance Pieces	
Serial #	S230927



COOLER

Make	Global Heat Transfer
Model	GHTJ – 1600 (370 PSI, 250F)
Louvres	
Fan Drive (electric/jackshaft)	

SCRUBBERS

	Size	CRN	Serial Number	MAWP	Temp	RT	HT
Oil Separator	20" x 50"	R6697.213	9911	350 PSI	250 F		
Inlet Separator	24" x 72"	R8091.213	10173	285 PSI	100 F		

PULSATION

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

PSV's

	Set Pressure	Size
Stage 1 Suction	100 PSI	1 x 1
Stage 1 Disch.	300 PSI	1 x 1

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	8'6"
Length	26' 5"
Height	12' 8"
Weight Estimate (dry)	25,000 LBS

CERTIFICATION










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

3500 Series 95 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	0.388	0.335	0.286	0.237	0.188	x	x	x	x	x	x
	48	54	66	77	74	76	78	79	79	x	x	x	x	x	x
5	0.684	0.683	0.680	0.560	0.539	0.410	0.333	0.266	x	x	x	x	x	x	x
	49	56	69	72	79	78	78	80	x	x	x	x	x	x	x
S 10	0.874	0.873	0.870	0.693	0.691	0.516	0.350	x	x	x	x	x	x	x	x
	51	57	71	72	82	79	80	x	x	x	x	x	x	x	x
U 15	1.064	1.063	1.060	0.846	0.783	0.540	0.419	x	x	x	x	x	x	x	x
	52	59	71	73	78	78	80	x	x	x	x	x	x	x	x
C 20	1.255	1.254	1.251	0.998	0.872	0.640	x	x	x	x	x	x	x	x	x
	50	59	74	73	79	80	x	x	x	x	x	x	x	x	x
T 25	1.446	1.444	1.442	1.151	1.005	0.740	x	x	x	x	x	x	x	x	x
	46	57	75	75	79	80	x	x	x	x	x	x	x	x	x
I 30	1.637	1.636	1.633	1.304	1.139	0.840	x	x	x	x	x	x	x	x	x
	40	54	73	76	79	80	x	x	x	x	x	x	x	x	x
O 35	1.829	1.827	1.824	1.457	1.120	0.940	x	x	x	x	x	x	x	x	x
	33	49	72	77	78	80	x	x	x	x	x	x	x	x	x
N 40	2.020	2.019	2.016	1.611	1.240	0.830	x	x	x	x	x	x	x	x	x
	24	41	69	76	79	78	x	x	x	x	x	x	x	x	x
45	2.200	2.200	2.270	1.820	1.360	0.910	x	x	x	x	x	x	x	x	x
	20	42	71	78	80	80	x	x	x	x	x	x	x	x	x
50	x	2.470	2.470	1.970	1.480	0.980	x	x	x	x	x	x	x	x	x
	x	33	67	75	79	80	x	x	x	x	x	x	x	x	x

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

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.