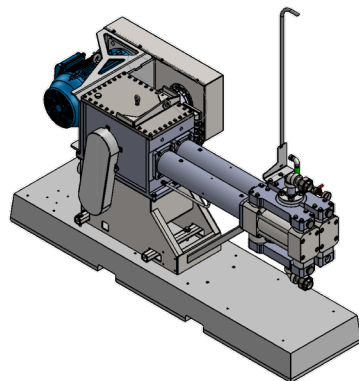


Wet Gas Compressor – 30 hp

WG-C30



COMPRESSOR				
Type	Low speed double acting reciprocating compressor			
Power	30hp 3-phase TEFC electric motor			
Capacity Control	VFD speed control and auto start/stop controlled by PLC, 100% turndown			
Wiring	Class 1 Div 2 Hazardous location			
Piping	SA-106B Threaded spools			
Max Operating Discharge Pressure	500 psi std / 1500 optional	3447 / 10,300 kPa		
Max Shut-in Pressure	1100 psi std / 1500 optional	7600 / 10,300 kPa		
Max Design Discharge Temperature	400°F		200°C	
	5" Cylinder		4" Cylinder	
Max ΔP	200 psi	1380 kPa	300 psi	2070 kPa
Max Geometric Displacement	140 mscf/d	3978 m ³ /day	87.5 mscf/d	2500 m ³ /day
2 Phase Max Continuous Water Flow (For other liquids viscosity dependent)	1258 bbl/d	200 m ³ /day	786 bbl/d	125 m ³ /day

CONTROLS AND INSTRUMENTATION	
Local interface	PLC Webserver based HMI over Wi-fi
Remote reporting	Cellular callout for operating conditions, Alarms, Shutdowns
Optional satellite	Multifunction LCD display
Suction and discharge pressure	User adjustable maximum and minimum set points
Discharge temperature	User adjustable limits

WEIGHTS AND DIMENSIONS		
Compressor on Concrete Slab	3500 lb / 1587 kg	96" x 36" x 45" / 244 cm x 91 cm x 114 cm
Control Panel on Concrete Slab	1000 lb / 205 kg	37" x 37" x 65" / 94 cm x 94 cm x 165 cm
Inlet Connector	1 ½" 600# flange or union	
Discharge Connector	1 ½" 600# flange or union	

ALARMS AND SHUTDOWNS			
	Warnings (Doesn't pause compression)	Alarm (Pauses compression until conditions change)	Shutdown (Shuts down compressor)
Suction Pressure Low		✓	
Discharge Pressure High		✓	
Differential Pressure High		✓	
Discharge Temperature High		✓	
Lubricating Oil Temperature Low		✓	
Lubricating Oil Temperature High		✓	✓
Lubricating Oil Level Low		✓	✓
ESD			✓
Gas Seal Leak	✓		✓
Compression Failure	✓		
VFD Torque Limiting	✓		
Discharge Pressure High		✓	
Crosshead Temperature High		✓	
VFD Fault			✓
Sensor Failure			✓

OPTIONS
<input checked="" type="checkbox"/> Optional Satellite monitoring system
<input checked="" type="checkbox"/> 3" cylinder (550 psi ΔP)
<input checked="" type="checkbox"/> 4" cylinder (300 psi ΔP)
<input checked="" type="checkbox"/> 1500 psi shut in pressure

TECHNICAL SPECIFICATIONS

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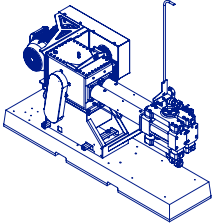
WGC30

PERFORMANCE

* Projected performance based on elevation 2500 ft, gas density .665, temperature 68°F - Flow rates in mscfd e³m³/day

Wet Gas Compressor – 30 hp

WGC30 with 5" Cylinder												
DISCHARGE PRESSURE Max ΔP: 200 psi / 1380 kPa												
SUCTION PRESSURE	PSI kPa	75	100	125	150	175	200	225	250	275	300	
	5	130	124	117	110	104	98					
	35	3.7	3.5	3.3	3.2	3.0	2.8					
	10	174	166	159	152	145	138					
	70	5.0	4.8	4.5	4.3	4.1	4.0					
	15	218	209	202	194	183	170					
	105	6.2	6.0	5.8	5.5	5.2	4.9					
	20	261	253	244	232	213	198					
	140	7.5	7.2	7.0	6.6	6.1	5.7					
	30	349	340	330	300	274	254	224				
	210	10.0	9.7	9.4	8.6	7.8	7.2	6.4				
	40	438	427	416	373	337	310	273				
	275	12.5	12.2	11.9	10.6	9.6	8.9	7.8				
	50	528	516	504	452	404	369	322	283			
	345	15.1	14.7	14.4	12.9	11.5	10.5	9.2	8.1			
	75		742	727	703	601	535	460	399	373		
	520		21.2	20.8	20.1	17.2	15.3	13.1	11.4	10.7		
	100			955	938	879	749	629	571	492	459	
	700			27.3	26.8	25.1	21.4	18.0	16.3	14.1	13.1	
125				1168	1149	1054	894	747	633	584		
860				33.4	32.8	30.1	25.5	21.3	18.1	16.7		
150					1381	1360	1228	1039	863	733		
1035					39.5	38.8	35.1	29.7	24.6	20.9		
175						1595	1571	1403	1184	980		
1205						45.6	44.9	40.1	33.8	28.0		
200							1808	1781	1575	1326		
1380							51.7	50.9	45.0	37.9		

WGC30	Drive Ratio	
	Low	7.5" (12.3:1)
	Medium	6.3" (14.7:1)
	High	5.2" (17.8:1)



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