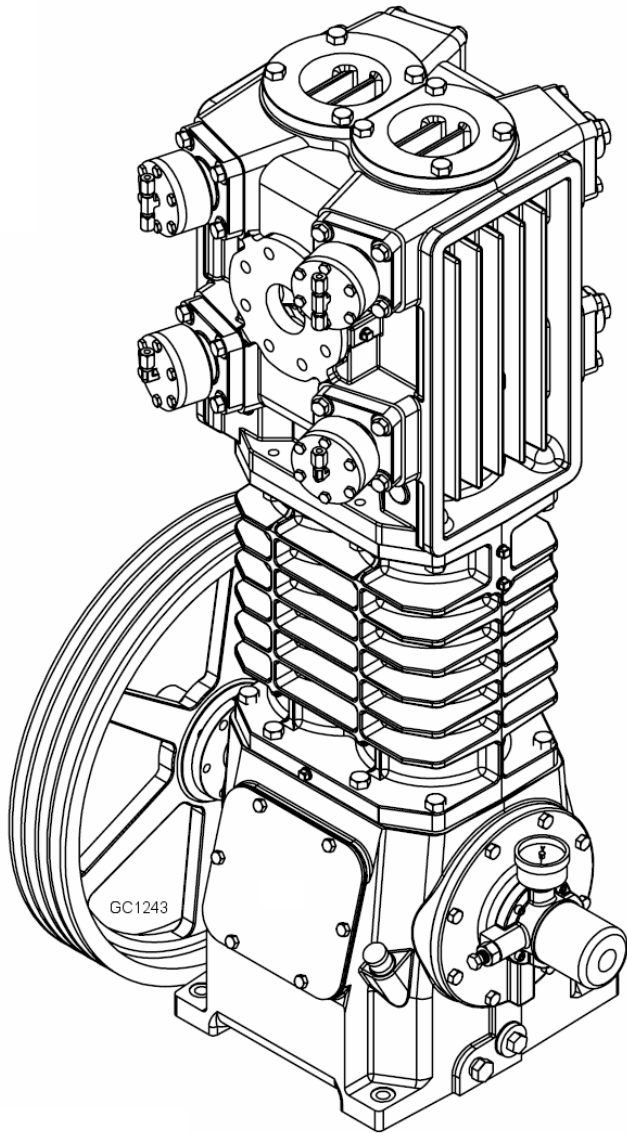


Natural Gas Vapor Recovery Compressors

**NG162****NG362****NG602****NG942**

- Vapor recovery
- Pressure boosting

- Natural gas
- Methane mix gases

- Well head
- Tank batteries

- 10 to 600 MSCFD
- 3 to 50 HP

- Ductile iron pressure parts
- Single compartment distance pieces
- Pressure lubricated crankcases
- Non-lubricated cylinders
- Four frame sizes

APPLICATIONS

Well Head Annulus Reduction

Many compressor applications are found at the wellhead where reducing the natural gas pressures around the annulus of the well increases the oil production. Blackmer's unique ability to handle a wide range of suction pressure conditions make them ideal for many wellhead applications.

Tank Battery Vapor Recovery

Environmental regulations are now being enforced that limit the amount of methane gas emissions that can be vented to the atmosphere from crude storage tanks. Blackmer's wide range of small frame sizes are an ideal fit for the small to mid size tank batteries that need VR control.

In either case, Blackmer NG compressors are standard with a full distance piece design allowing users to maintain maximum control of any fugitive emissions of methane gas, and minimize the potential of condensate into the compressor crankcase.

PERFORMANCE

Model NG162									
Discharge	25	50	75	100	125	150	200	250	
Suction	0	18 (3)	16 (3)						
	10	33 (3)	30 (5)	28 (5)	26 (5)				
	20	48 (2)	45 (5)	43 (5)	40 (5)	38 (5)	36 (7.5)		
	30		60 (3)	57 (5)	55 (5)	53 (7.5)	50 (7.5)	46 (7.5)	
	40		75 (3)	72 (5)	70 (5)	67 (7.5)	65 (7.5)	60 (7.5)	55 (7.5)
	50			87 (5)	85 (5)	82 (7.5)	79 (7.5)	75 (7.5)	

Model NG362									
Discharge	25	50	75	100	125	150	200	250	
Suction	0	39 (5)	34 (7.5)						
	10	70 (5)	65 (7.5)	60 (7.5)	56 (10)				
	20	102 (5)	96 (7.5)	91 (7.5)	86 (10)	82 (10)	77 (15)		
	30		128 (5)	123 (7.5)	117 (10)	112 (10)	108 (15)	98 (15)	
	40		160 (5)	154 (7.5)	149 (10)	144 (15)	139 (15)	129 (15)	119 (15)
	50			186 (7.5)	181 (10)	175 (15)	170 (15)	160 (15)	

Model NG602									
Discharge	25	50	75	100	125	150	200	250	
Suction	0	64 (10)	53 (10)						
	10	122 (10)	109 (15)	96 (15)	85 (15)				
	20	180 (7.5)	166 (15)	153 (15)	140 (15)	128 (20)	116 (20)		
	30		224 (10)	210 (15)	197 (20)	184 (20)	172 (20)	147 (25)	
	40		283 (10)	269 (15)	255 (20)	241 (20)	228 (20)	203 (25)	178 (25)
	50			327 (15)	313 (15)	299 (20)	285 (25)	259 (25)	234 (30)

Model NG942									
Discharge	25	50	75	100	125	150	200	250	
Suction	0	127 (15)	107 (15)						
	10	236 (15)	214 (20)	193 (25)	173 (25)				
	20	348 (10)	324 (20)	301 (25)	279 (30)	258 (30)	238 (30)		
	30		435 (15)	411 (25)	388 (30)	366 (40)	344 (40)	302 (40)	
	40		547 (15)	522 (25)	498 (30)	475 (40)	452 (40)	409 (50)	367 (50)
	50			634 (20)	609 (30)	585 (40)	561 (40)	516 (50)	473 (50)

Sweet Gas (10 ppm max. H₂S) only. For sour gas applications; see CB-311 re 'HDS' Series.

Suction and Discharge pressures are PSIG.

Tables read in MSCFD (Motor H.P.) and are based on a compressor speed of 740 RPM.

Capacity and horsepower based on natural gas with an "N" value of 1.27 and a specific gravity of 0.65 at 70°F.

Use tables for estimating only.

Consult the Factory more detailed performance data or for applications beyond the tables.

SPECIFICATIONS

Double-Seal	NG162	NG362	NG602	NG942
No. of Cylinders	2	2	2	2 Double Acting
Bore x Stroke in. (mm)	3.0 x 2.5 (76.2 x 63.5)	4.0 x 3.0 (102 x 76)	4.625 x 4.0 (117 x 102)	4.625 x 4.0 (117 x 102)
MAWP, psia (Bar)	350 (24.1)	350 (24.1)	350 (24.1)	350 (24.1)
Speed, rpm	350 - 825	350 - 825	350 - 825	350 - 825
Piston Displacement, CFM (m ³ /hr)				
@ Min rpm	7.16 (12.2)	15.3 (26.0)	27.2 (46.3)	52.46 (89.1)
@ Max rpm	16.9 (28.7)	36.0 (61.2)	64.2 (109.0)	125.2 (212)
Max. Discharge Temp.	350°F (176°C)	350°F (176°C)	350°F (176°C)	350°F (176°C)
Max. BHP (kw)	10 (7.5)	15 (11)	40 (30)	50 (37)
Weight, lb. (kg)	~225 (102)	~365 (166)	~705 (320)	~905 (410)
Inlet / Outlet Connections *	0.75" NPT	1.25", 1.50" NPT or Weld Flanges	2.00", 1.50" NPT or Weld Flanges	2" 300# ANSI

STANDARD FEATURES

Ductile Iron Head & Cylinder provide toughness & strength unmatched by cast iron.

O-Ring head gaskets provide positive sealing under all operating conditions.

Double-Seal with full size distance piece.

One piece steel pistons are attached to the piston rod via one positive locking nut.

Self-adjusting PTFE piston rod seals provide maximum sealing & minimum friction.

Ductile Iron crossheads

Pressure lubricated crankcase via a self-reversing oil pump directly driven by the crankshaft. Oil is fed to the crosshead and all bearing surfaces.

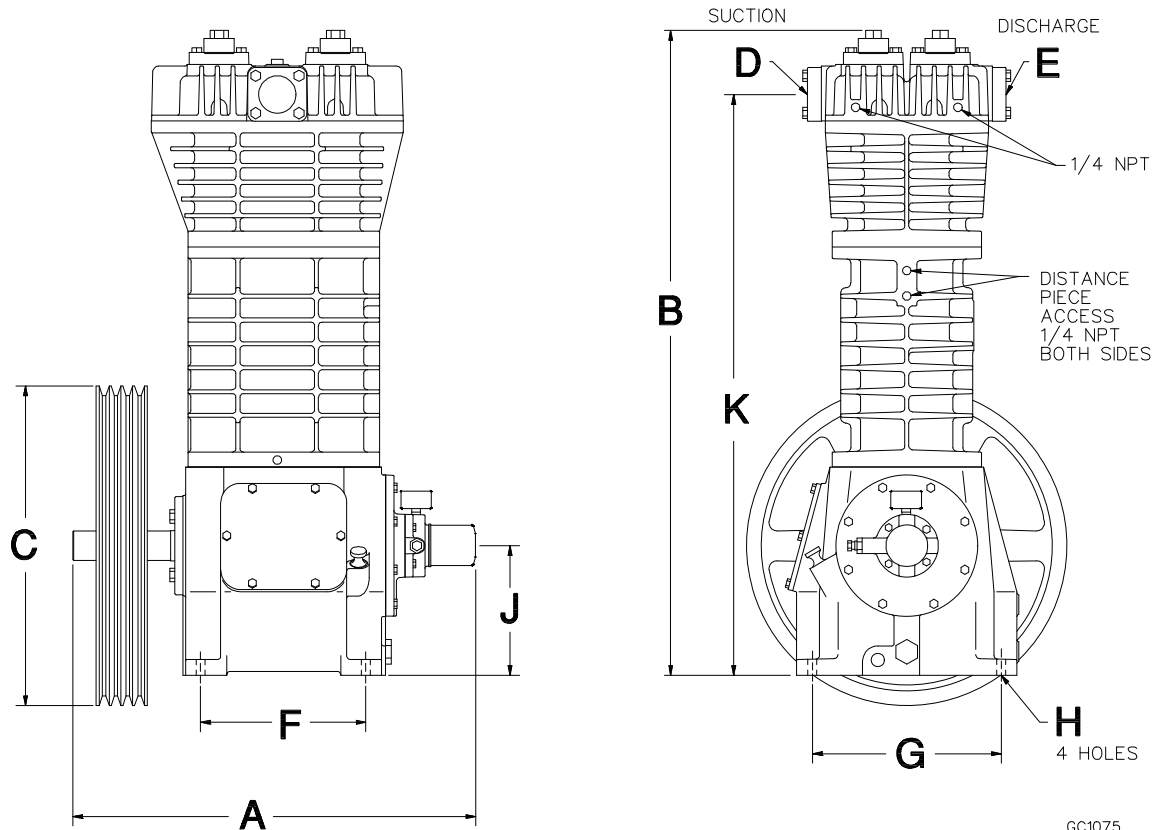
External Oil Filter.

Epoxy paint.

OPTIONS

For additional material options or extended range of performance, consider the Blackmer HD or HDS series compressors.

DIMENSIONS



In. (mm)

Model	A	B *	C	D	E	F	G	H	J	K
NG162	21.9 (556)	29.7 (754)	16.35 (415)	0.75" NPT ¹	0.75" NPT ¹	7.5 (190)	7.38 (187)	0.44 (11)	5.38 (137)	27.34 (694)
NG362	23.4 (594)	34.39 (874)	16.35 (415)	1.25"NPT ²	1.25"NPT ²	9.12 (232)	9.37 (238)	0.5 (12.7)	5.88 (149)	30.81 (783)
NG602	25.6 (650)	40.77 (1036)	19.5 (495)	2" NPT ³	1.5" NPT ³	10.5 (267)	12.0 (305)	0.56 (14.2)	8.25 (210)	36.99 (940)
NG942	25.6 (650)	45.23 (1,149)	21.20 (538)	2" 300# ANSI	2" 300# ANSI	10.5 (267)	12.0 (305)	0.56 (14.2)	8.25 (210)	37.65 (956)

1. Tapped connections in head.

2. 1.5" NPT, 1.25" weld and 1.5" weld available.

3. 1.5" NPT, 2" NPT, 1.5" weld and 2" weld available.

TYPICAL MOUNTING STYLES

-CO Compressor with flywheel.

-B Compressor mounted on a baseplate with V-belt drive system with guard and motor slide base ready to accept but less motor.

Complete system packaging for the oil and gas market is typically provided by the Distributor, OEM or System Integrator.