

Dresser-Rand MOS compressor

Ratings

Model	Stroke in. (mm)	Number of Cylinders	Nominal Rated HP (kW)	Maximum Allowable Rod Load		Rated RPM
				Combined lbs. (kN)	Gas Load lbs. (kN)	
5MOS2	5 (127.0)	2	1,950 (1,454)	45,000 lb. (200)	54,000 lb. (240)	1,500
5MOS4	5 (127.0)	4	3,900 (2,908)	45,000 lb. (200)	54,000 lb. (240)	1,500
5MOS6	5 (127.0)	6	4,200 (3,121)	45,000 lb. (200)	54,000 lb. (240)	1,500
6MOS2	6 (152.4)	2	1,800 (1,342)	45,000 lb. (200)	54,000 lb. (240)	1,200
6MOS4	6 (152.4)	4	3,600 (2,685)	45,000 lb. (200)	54,000 lb. (240)	1,200
6MOS6	6 (152.4)	6	4,320 (3,221)	45,000 lb. (200)	54,000 lb. (240)	1,200
7MOS2	7 (177.8)	2	1,700 (1,268)	45,000 lb. (200)	54,000 lb. (240)	1,000
7MOS4	7 (177.8)	4	3,400 (2,535)	45,000 lb. (200)	54,000 lb. (240)	1,000
7MOS6	7 (177.8)	6	4,400 (3,281)	45,000 lb. (200)	54,000 lb. (240)	1,000

Standard Equipment

Compressor Frame Components

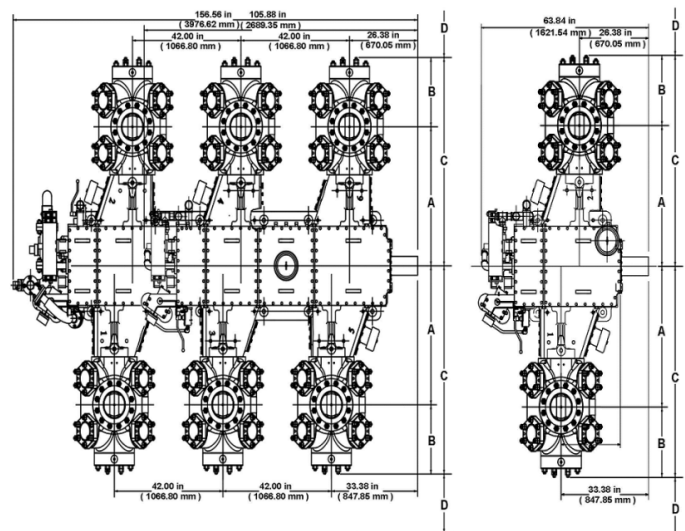
- Rigid cast gray iron frame, heavily ribbed and reinforced with integrally cast crosshead extensions.; open frame top construction with steel tie rods, cast iron spacers, and an individual cover over each section.
- Forged alloy steel crankshaft with passages for pressure lubrication, counterweighted to reduce horizontal moments.
- Forged alloy steel connecting rods, rifle drilled for pressure lubrication.
- Nodular iron crossheads, pressure-lubricated, with babbitted running surfaces.
- Horizontally-split-precision type, tri-metal bronze main and crankpin bearings.
- Solid bronze connecting rod bearings.
- Crankcase filter-breather.
- Metallic oil wiper rings.
- Main lube oil pump chain driven from crankshaft, complete with relief valve.
- Ten-micron full-flow oil filter with cartridge-type cleanable elements and differential pressure gauge.
- Shell-and-tube lube oil cooler.
- Bulls-eye oil level gauge.
- Chain-driven force-fed cylinder lubrication system.
- Set of special tools consisting of crosshead nut wrench, piston rod entering sleeve and chain tensioner wrench. One set provided per frame.

Specifications

Frame	One-piece, cast iron, high-strength
Crankshaft	Forged steel
Connecting rods	Forged steel
Connecting rod bolts	Alloy steel, rolled threads
Crossheads	Nodular iron; babbitt
Crosshead pins	Alloy-steel, hardened, super-finished
Bearings - main and crankpin	Tri-metal
Bushings - connecting rod	Solid bronze
Oil pump	Gear-type, chain-drive
Oil filter	Full-flow, 10 micron
Oil cooler	Shell-and-tube
Cylinders	Nodular iron
Pistons	One or two piece; iron, aluminum or steel
Piston rods	Alloy steel, rolled threads
Piston rod packing rings	Filled Teflon®

Compressor Cylinder Components

- Cylinders are non-jacketed configurations.
- Cast nodular iron bore cylinder barrels with integral crank-end heads.
- Cast nodular iron or Aluminum pistons.
- AISI 4142 steel piston rods with rolled threads.
- Magnum HammerHead valves with non-metallic PEEK elements and 17-7 PH stainless steel springs or PF-style valves complete with Hi-Temp, non-metallic PEEK plates and chrome silicon springs.
- Filled Teflon® piston rod packing rings.
- 50" NPT plugged connections for indicator ports on outer end and frame end of all cylinders.
- .50" NPT plugged connections for RTD's on each inlet and discharge cylinder connection.
- "Plug" style outer heads. VVCP's are optional.
- One reproducible print of certified outline drawings or electronic DWG format.



Clearance to
Remove Piston Rod

Cylinder Size in. (mm)	MAWP PSIG (bar)	A in. (mm)	B in. (mm)	C in. (mm)	D in. (mm)
4.75 (120.7)	2,750 (189.6)	43.5 (1105)	21 (533)	64 (1626)	27 (666)
5.75 (146.0)	2,750 (189.6)	43.5 (1105)	21 (533)	64 (1626)	27 (666)
6.00 (152.4)	2,750 (189.6)	43.5 (1105)	21 (533)	64 (1626)	27 (666)
6.50 (165.1)	2,750 (189.6)	43.5 (1105)	21 (533)	64 (1626)	27 (666)
7.00 (177.8)	2,475 (170.6)	43.5 (1105)	21 (533)	65 (1651)	26 (660)
7.50 (190.5)	2,475 (170.6)	43.5 (1105)	21 (533)	65 (1651)	26 (660)
8.00 ((203.2)	1,650 (113.8)	43.5 (1105)	21 (533)	65 (1651)	26 (660)
8.50 (215.9)	1,650 (113.8)	43.5 (1105)	21 (533)	65 (1651)	26 (660)
9.00 (228.6)	1,265 (87.2)	43.5 (1105)	22 (559)	65 (1651)	26 (660)
9.50 (241.3)	1,265 (87.2)	43.5 (1105)	22 (559)	65 (1651)	26 (660)
10.50 (266.7)	1,100 (75.8)	43.5 (1105)	22 (559)	65 (1651)	26 (660)
11.50 (292.1)	1,100 (75.8)	43.5 (1105)	22 (559)	65 (1651)	26 (660)
12.25 (311.1)	880 (60.7)	43.5 (1105)	22 (559)	65 (1651)	26 (660)
13.00 (330.2)	880 (60.7)	43.5 (1105)	22 (559)	65 (1651)	26 (660)
14.00 (355.6)	660 (45.5)	43.5 (1105)	22 (559)	65 (1651)	26 (660)
15.00 (381.0)	660 (45.5)	43.5 (1105)	22 (559)	65 (1651)	26 (660)
16.25 (412.7)	385 (26.5)	43.5 (1105)	20 (508)	63 (1600)	26 (660)
17.50 (444.5)	385 (26.5)	43.5 (1105)	20 (508)	63 (1600)	26 (660)
19.00 (482.6)	330 (22.8)	43.5 (1105)	20 (508)	64 (1626)	26 (660)
20.50 (520.7)	330 (22.8)	43.5 (1105)	20 (508)	64 (1626)	26 (660)

Contact HSRC team for more information for special pressure or bore size requests.

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