Kobelco KS28LLNB Gas Screw Compressor Flow Table (530 hp

Discharge Pressure (psig)

Suction Pressure (psig)

	80	100	120	140	160	180	200	220	240	250
0	1,912, 282 3.65, 100%	1,894, 315 5, 100%	1,870, 347 5, 100%	1,844, 380 5, 100%	1,817, 412 5, 100%	1,789, 444 5, 100%	1,760, 477 5, 100%	1,613, 490 5, 97.2%	1,395, 490 5, 92.7%	1,303, 490 5, 90.7%
5	2,703, 306 2.9, 100%	2,679, 347 3.65, 100%	2,652, 388 3.65, 100%	2,634, 420 5, 100%	2,607, 452 5, 100%	2,578, 484 5, 100%	2,022, 490 5, 91.5%	2,114, 490 5, 93.4%	1,856, 490 5, 89.4%	1,714, 490 5, 79.7%
10	3,461, 325 2.2, 100%	3,436, 369 2.9, 100%	3,411, 413 3.65, 100%	3,382, 453 3.65, 100%	3,336, 490 5, 99.7%	2,867, 490 5, 94.2%	2,206, 490 5, 73.5%	1,387, 490 5, 24.7%		
15	4,230, 325 2.2, 100%	4,195, 389 2.2, 100%	4,168, 432 2.9, 100%	4,143, 479 3.65, 100%	3,757, 490 3.79, 96.5%	3,244, 490 3.79, 91.6%	2,522, 490 5, 64.1%	1,717, 490 5, 25.9%		
20	3,073, 209 2.2, 100%	3,050, 239 2.2, 100%	3,022, 279 2.2, 100%	3,003, 304 2.9, 100%	2,985, 335 3.65, 100%	2,963, 359 3.65, 100%	2,767, 370 3.65, 97.6%	2,416, 370 3.65, 92.9%		
25	5,831, 325 2.2, 100%	5,742, 389 2.2, 100%	5,699, 453 2.2, 100%	5,310, 490 2.2, 97.5%	4,750, 490 3.11, 93.6%	4,099, 490 3.11, 86.4%	3,337, 490 3.79, 59.8%	2,539, 490 3.79, 31.7%	1,803, 490 3.79, 5.5%	
30	6,623, 325 2.2, 100%	6,529, 389 2.2, 100%	6,475, 453 2.2, 100%	6,051, 490 2.2, 97.6%	5,219, 490 2.32, 92.5%	4,541, 490 3.11, 82.6%	3,717, 490 3.11, 57.4%	2,945, 490 3.79, 33.4%	2,205, 490 3.79, 10.3%	
35		7,364, 389 2.2, 100%	7,261, 453 2.2, 100%	6,799, 490 2.2, 97.7%	5,906, 490 2.32, 92.8%	4,966, 490 2.32, 79.4%	4,262, 490 3.11, 60.0%	3,424, 490 3.11, 37.0%	2,613, 490 3.79, 14.3%	2,228, 490 3.79, 3.5%
40		8,159, 389 2.2, 100%	8,057, 453 2.2, 100%	7,556, 490 2.2, 97.7%	6,603, 490 2.32, 93.1%	5,634, 490 2.32, 82.6%	4,594, 490 2.32, 56.9%	3,860, 490 3.11, 38.5%	3,052, 490 3.11, 18.3%	2,635, 490 3.11, 8.2%
45			8,902, 453 2.2, 100%	8,322, 490 2.2, 97.8%	7,312, 490 2.32, 93.3%	6,324, 490 2.32, 85.7%	5,202, 490 2.32, 60.5%	4,229, 490 2.32, 38.4%	3,478, 490 3.11, 21.2%	3,063, 490 3.11, 11.7%
50			9,745, 453 2.2, 100%	9,128, 490 2.2, 97.9%	7,962, 490 2.32, 93.3%	6,881, 490 2.32, 85.4%	5,834, 490 2.32, 63.9%	4,781, 490 2.32, 42.1%	3,867, 490 2.32, 22.9%	3,483, 490 3.11, 14.7%
55				9,940, 490 2.2, 97.9%	8,674, 490 2.32, 93.5%	7,576, 490 2.32, 90.4%	6,345, 490 2.32, 64.4%	5,360, 490 2.32, 45.6%	4,370, 490 2.32, 26.5%	3,942, 490 2.32, 18.2%
60				10,670, 490 2.2, 97.9%	9,461, 490 2.32, 93.7%	8,378, 490 2.32, 90.1%	7,009, 490 2.32, 67.6%	5,850, 490 2.32, 47.0%	4,891, 490 2.32, 29.8%	4,388, 490 2.32, 20.8%
65					10,250, 490 2.32, 93.9%	9,098, 490 2.32, 90.4%	7,700, 490 2.32, 70.7%	6,466, 490 2.32, 50.3%	5,371, 490 2.32, 32.0%	4,900, 490 2.32, 24.1%
70						9,740, 490 2.32, 90.4%	8,253, 490 2.32, 71.1%	6,987, 490 2.32, 51.6%	5,940, 490 2.32, 35.3%	5,374, 490 2.32, 26.4%
75						10,460, 490 2.32, 90.7%	8,969, 490 2.32, 73.6%	7,624, 490 2.32, 54.4%	6,431, 490 2.32, 37.0%	5,920, 490 2.32, 29.5%
80								8,302, 490 2.32, 57.5%	7,038, 490 2.32, 40.1%	6,415, 490 2.32, 31.5%
85								8,875, 490 2.32, 58.4%	7,559, 490 2.32, 41.7%	7,007, 490 2.32, 34.5%

Gas Flow Rate (MMscfd)
Horse Power (max. usable = 370 hp for this application)
Vi Ratio
Turn Valve Position (%)

Operating Conditio
- Inlet Temperature = 60 deg. F
- Ambient Pressure = 13.5 psia
- Ambient Temperature = 95 de
- Specific Gravity of Gas = 0.65
- Compressor Speed = 1800 rpr
- Lube Oil Supply Temp. = 140 (
- Gas Discharge Temp. = varies

Note: An oil pump (75 gpm) is required if the differential pressure is less than 85 psi.

This chart was created by Jiro Engineering using Kobelco's Oil & Gas Selection Program (Version 2.0.5)