# Bitzer, Compressor, S6F-30.2Y-40P, Compressor Selection, Semi-hermetic Reciprocating, 1450 min-1 , 101,1 (LP) , 30hp

Category: compressor
written by www.mbsm.pro | 15 December 2021
BITZER is raising the bar in terms of technology and capacity for expanded low temperature applications with the 2nd generation of 2-stage compressors. This series is the result of extensive research on the basis of years of experience in the construction of highly efficient and solid reciprocating compressors. The gas flow control and working valves are specially adapted for low temperature applications.
• Displacement at 1450 min-1 : 101,1 (LP) 50,5 (HP)
• Number of cylinders : 6
• Oilcharge : 4,75 dm3
Displacement (1450 RPM 50Hz):101.10 / 50.50 m^3/h Displacement (1750 RPM 60Hz):122.02 / 60.95 m^3/h
The Bitzer Compressor is high quality!
Displacement (1450 RPM 50Hz):101.10 / 50.50 m^3/h
Displacement (1750 RPM 60Hz):122.02 / 60.95 m^3/h
No. of cylinder x bore LP/HP x stroke:6+6 x 82/ 82 mm x 55 mm
Max. pressure (LP/MP/HP):19 / 19 / 28 bar
Connection suction line:42 mm – 1 5/8 inch
Connection discharge line:35 mm – 1 3/8 inch
Oil type R404A/R507A:BSE32 (Standard)
Oil type R448A/R449A:BSE32 (Standard)
Oil type R22:B5.2 (Option) We can also provide the following models
4JTE-15K
GYD80485VAYB4
GED60235VLB332
GMD60137VBYR632
GED60485VBYR3-1
CSH7573-70Y-40P
GYD80182VLYB632
GYD60385VLYR2-2
GED80154VLR332
GYU80295VLR4-2
GSU60120VLB6-2
GED60137VAYB3-1
GUU60154VLR532
GUD80295VLR232
GSD80295VLR6-1
GTU60137VLYB3-1
GUD60137VBYR5-1
GYD80235VBYB332
GYD60421VAYR332

GMD60295VBR3-1
GED80154VBYB6
4NEH-14-40S
GMU60154VLY
GYD60154VAB4-2
GYD80182VAYR4-2
GYD80421VBR5-1
GYD60385VLYR4-1
4TE-9.F3Y-40S
GMD60182VBYB3-2
GMD80120VLR232
GUD60120VBYR5-2
GSD60154VAYR232
GMD60154VBYR632
44EES-12-40S
GMD60154VBB432
GUD80421VWR4-2
GYD80385VAYR2-2
GTD60385VLB632
GED60235VLB2
GED60154VAYR4
GSD80421VWR5-2
GUD60421VBR5
GYD80182VBYB5-1
GED60295VBB5
GED80421VAR4-1
GED60385VLYB3
GYU80421VLR2
GSD80485VBB5-1
GED60120VLB2
GUD60421VBR332
GTD60154VAB4-2
GED60421VAYB6-1
GMD60485VBB5-1
GSD60485VAYR4
GED80295VLYR6-1
GSD60235VAYB232
GTD60385VBYR3-1
GUD60154VBB3-2
GUD80295VWB6-2
GED60421VAR5
GMD80421VBR4
GED80182VLR532
GSD60154VBYB6-1
GTD80421VBYR332
GSD60182VAYB4-1
GUD80485VWYR5-2
GSU80295VLYR6-1
GSD80182VLYR2-2
GSU80385VLB432

GED80295VAY
GED80295VAB3-2
GYD60120VAR4

# With liquid subcooling 50Hz (R404A/R507A)

| Compressor type | Cond.temp. | Qo / Pe | Evaporating temperature °C | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| [°C] | -25 | -30 | -35 | -40 | -45 | -50 | -55 | -60 | -65 | -70 | |
| S6F-30.2Y | 30 | Qo | 43400 | 37400 | 31750 | 26500 | 21700 | 17420 | 13690 | 10540 | 7920 5800 |
| Pe | 2,53 | 0,65 | 8,78 | 16,94 | 15,15 | 13,42 | 11,77 | 10,20 | 8,74 | 7,40 | |
| 35 | Qo | 42500 | 36600 | 31050 | 25900 | 21200 | 17030 | 13420 | 10340 | 7780 | 5680 |
| Pe | 3,85 | 1,86 | 9,89 | 7,94 | 6,04 | 4,21 | 12,45 | 10,78 | 9,23 | 7,80 | |
| 40 | Qo | 41500 | 35700 | 30300 | 25300 | 20700 | 16680 | 13170 | 10150 | 7590 | |
| Pe | 25,20 | 23,10 | 21,01 | 18,96 | 16,95 | 15,00 | 13,14 | 11,37 | 9,72 | | |
| 45 | Qo | 40450 | 34800 | 29550 | 24700 | 20300 | 1660 | 12930 | 9920 | | |
| Pe | 26,59 | 24,37 | 22,16 | 19,98 | 17,86 | 15,80 | 13,83 | 11,96 | | | |
| 50 | Qo | 39500 | 34000 | 28850 | 24100 | 19870 | 16060 | 12650 | | | |
| Pe | 28,07 | 25,69 | 23,33 | 21,01 | 18,75 | 6,57 | 14,49 | | | | |
| 55 | Qo | 38800 | 33250 | 28200 | 23600 | 19490 | 15740 | | | | |
| Pe | 29,64 | 27,06 | 24,51 | 22,03 | 19,63 | 17,32 | | | | | |

Qo – Cooling capacity [Watt], Pe – Power consumption [kW]

# Without liquid subcooling 50Hz (R404A/R507A)

| Compressor type | Cond.temp. | Qo / Pe | Evaporating temperature °C | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| [°C] | -25 | -30 | -35 | -40 | -45 | -50 | -55 | -60 | -65 | -70 | |
| S6F-30.2Y | 30 | Qo | 38050 | 31700 | 26050 | 21000 | 16620 | 12880 | 9790 | 7280 | 5300 3760 |
| Pe | 1,26 | 18,81 | 16,61 | 14,64 | 12,90 | 11,37 | 10,02 | 8,86 | 7,85 | 7,00 | |
| 35 | Qo | 36000 | 29950 | 24500 | 19710 | 15570 | 12070 | 9180 | 6840 | 4980 | 3510 |
| Pe | 22,11 | 19,66 | 17,41 | 15,37 | 13,53 | 11,88 | 10,42 | 9,13 | 8,02 | 5,72 | |
| 40 | Qo | 33800 | 28000 | 22900 | 18390 | 14530 | 11280 | 8590 | 6400 | 4620 | |
| Pe | 22,95 | 20,53 | 18,26 | 16,15 | 14,20 | 12,42 | 10,82 | 9,41 | 8,18 | | |
| 45 | Qo | 31450 | 26050 | 21250 | 17080 | 13510 | 10500 | 8000 | 5920 | | |
| Pe | 23,82 | 21,42 | 19,12 | 16,94 | 14,89 | 13,00 | 11,26 | 9,71 | | | |
| 50 | Qo | 28950 | 24000 | 19590 | 15770 | 12490 | 9710 | 7370 | | | |
| Pe | 24,72 | 22,31 | 19,98 | 17,74 | 15,61 | 13,61 | 11,76 | | | | |
| 55 | Qo | 26400 | 21900 | 17890 | 14430 | 11440 | 8880 | | | | |
| Pe | 25,67 | 23,19 | 20,80 | 18,52 | 16,34 | 14,27 | | | | | |

Qo – Cooling capacity [Watt], Pe – Power consumption [kW]

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Compressor typeDisplacement at 1450 min-1Number of cylindersOil chargeWeightPipe connectionsMotorMax. operating currentMax. power consumptionStarting

current(lockedrotor)LPHPDLSLdm3KgmmpoucemmpouceAmpkWAmp.
Y/YYS6F-30.2Y101,150,567.752343513/842
5415/8
21/8380 ..420YY/3/50
440 ..480 YY/3/605131,9135/220