

# HITACHI

## Semi-Hermetic Horizontal Screw Compressor

For High Temperature Application  
With R-22, R-134a & R407C Refrigerants

Models: 4005SC-Z

5005SC-Z

6005SC-Z

10001SC-Z

## Service and Operation Information



AC Component Specialists, Inc.  
899 South Prairie Lane  
P.O. Box 500  
Marshfield, Missouri 65706

Suggested Retail \$15.00

Phone: (417) 859-6067 Fax: (417) 859-2109

# GENERAL PRODUCT INFORMATION

Model		4005SC-Z	5005SC-Z	6005SC-Z	10001SC-Z
Cooling Capacity (R22)	kW (kcal/h) Btu/h	159.6 (137,200) 544,200	196.9 (169,300) 671,700	242.6 (208,600) 827,700	405.0 (348,200) 1,381,600
Motor Input	kW	39.0	48.0	59.5	84.3
Overall Dimension					
Height	mm (in)	566 (22-1/4)	591 (23-1/4)	591 (23-1/4)	698 (27-1/2)
Width	mm (in)	413 (16-1/4)	455 (17-7/8)	455 (17-7/8)	724 (28-1/2)
Length	mm (in)	1123 (45)	1209 (47-1/4)	1239 (48-3/8)	1537 (60-1/2)
Net Weight	kg (lb)	360 (795)	420 (925)	440 (970)	825 (1819)
Displacement	m <sup>3</sup> /h (cfm)	165.6 (97.5)	204.2 (120.2)	251.5 (148.0)	395.0 (232.5)
Piping connections					
Suction Piping O.D.	mm (in)	53.98 (2-1/8)	53.98 (2-1/8)	53.98 (2-1/8)	92.08 (3-5/8)
Discharge Piping O.D.	mm (in)	34.92 (1-3/8)	41.28 (1-5/8)	41.28 (1-5/8)	66.68 (2-5/8)

## Notes:

- The compressors are driven by two pole motors directly mounted on the compressor shaft, and with a rotation of 3,470 rpm for 60 Hz, at the rated voltage.
- Refrigerants R22, R407C and R134a are applicable to these compressors. Continue to use with only one refrigerant that is chosen at the installation.
- Castrol Icematic® SW220HT Oil is charged in these compressors at the time of shipment.
- Capacity control is applicable down to 25% (33% for model 4005SC-Z) of the rated capacity.
- The standard color is light green (Munsell Code 10G5/2).
- The cooling capacity and the motor input are based on the following conditions:
  - Condensing Temperature: 40.6 °C (105° F)
  - Leaving Liquid Temperature: 40.6 °C (105° F)
  - Evaporating Temperature: 4.4 °C ( 40° F)
  - Suction Gas Temperature to compressor: 12.8 °C ( 55° F)
- The U.S. dimensions shown here are converted from metric.
- These compressors should be installed indoors or in a location equivalent to an indoor environment.

## Caution:

UL approval for the 100hp (model: 10001SC-Z) is for 460 V - 60Hz only. The 230/208 V-60Hz UL approval has not been obtained.

Due to continuing improvements, specifications are subject to change. Please consult AC Component Specialists, Inc.



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