



Version 5.0

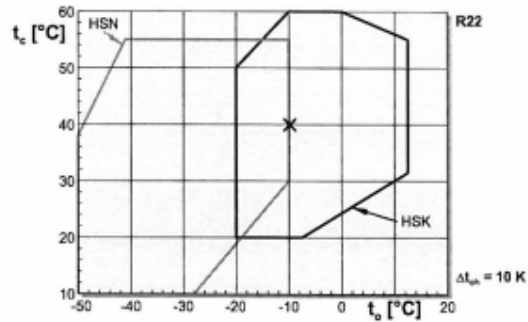
6/1/2011 / All data subject to change.

Compressor Selection: Semi-hermetic Screw Compressors

Input Values

Compressor model	HSK7471-90
Refrigerant	R22
Reference temperature	Dew point temp.
Evaporating SST	-10°C
Condensing SDT	40°C
Operating mode	Standard
Liquid sub-cooling	0K
Discharge gas temp.	80°C
Suct. gas superheat	10K
Useful superheat	100%
Power supply	400V-3-50Hz
Capacity regulation	100%

Application Limits (Standard)



Output

Compressor model	HSK7471-90-40P
Cooling capacity	142.0 kW
Cooling capacity *	142.0 kW
Evaporator capacity	142.0 kW
Power input	54.1 kW
Current (400V)	94.4 A
Voltage range	380-415V
Condensing cap. (with HR)	178.5 kW
COP/EER	2.63
COP/EER *	2.63
Mass flow LP	3213 kg/h
Mass flow HP	3213 kg/h
Operating mode	Standard
Liquid temp.	40.0 °C
Oil volume flow	1.65 m³/h
Oil cooler outlet	61.1 °C
Oil cooler load	14.85 kW
DG w/o cooling	96.7 °C

Additional cooling/ Limitations (see Limits + T. Data)!

*according to EN12900 (10K suction gas superheat, 0K liquid sub-cooling)



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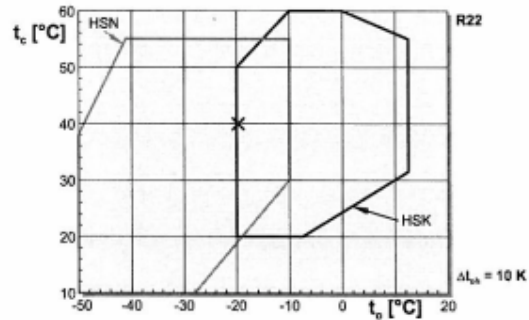
6/1/2011 / All data subject to change.

Compressor Selection: Semi-hermetic Screw Compressors

Input Values

Compressor model	HSK7471-90
Refrigerant	R22
Reference temperature	Dew point temp.
Evaporating SST	-20°C
Condensing SDT	40°C
Operating mode	Standard
Liquid sub-cooling	0K
Discharge gas temp.	80°C
Suct. gas superheat	10K
Useful superheat	100%
Power supply	400V-3-50Hz
Capacity regulation	100%

Application Limits (Standard)



Output

Compressor model	HSK7471-90-40P
Cooling capacity	92.8 kW
Cooling capacity *	92.8 kW
Evaporator capacity	92.8 kW
Power input	52.0 kW
Current (400V)	91.4 A
Voltage range	380-415V
Condensing cap. (with HR)	119.2 kW
COP/EER	1.78
COP/EER *	1.78
Mass flow LP	2160 kg/h
Mass flow HP	2160 kg/h
Operating mode	Standard
Liquid temp.	40.0 °C
Oil volume flow	1.72 m ³ /h
Oil cooler outlet	52.0 °C
Oil cooler load	23.0 kW
DG w/o cooling	122.5 °C

Additional cooling/ Limitations (see Limits + T. Data)!

*according to EN12900 (10K suction gas superheat, 0K liquid sub-cooling)