

Danfoss Scroll Compressors HCJ

Upgraded for higher energy efficiency and savings

The new light commercial HCJ compressors, three new additions in Danfoss Scrolls H-series, range from 7.5 to 10 TR and are designed to meet the energy levels of chillers, heat pumps and air duct units operating with R410A.

4%

higher energy efficiency to meet the energy standards



Danfoss Scrolls HCJ offer several benefits

The three new models HCJ 091 -106-121 - developed by Danfoss for the core applications in light commercial air conditioning and heating offer an upgraded alternative to existing SH and HCJ compressors ranging from 7.5 to 10 Tons of cooling capacity. The upgraded design helps end users and OEMs reduce electrical consumption by 4%, thus deliver higher energy performance in the market operating with R410A.

These three models can be used in even manifold configurations for staged cooling capacity, more flexibility and superior part-load energy performance.

The operating map is appropriate for an efficient run of the compressor, also in cold regions.

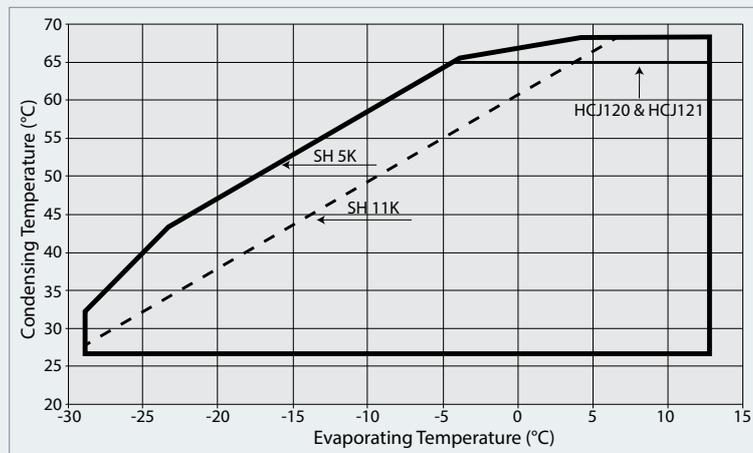
Technical data - R410A

Models	Nominal Capacity	Nominal cooling capacity		Power input	A max.	Efficiency		Swept volume	Displacement	Oil charge	Net weight
	TR	W	Btu/h	kW	A	COP W/W	EER Btu/h/W	cm ³ /rev	m ³ /h	dm ³	kg
HCJ091	7.5	22 390	76 420	7.04	18.0	3.18	10.9	86.9	15.11	2.46	49
HCJ106	8.8	26 060	88 960	8.08	21.0	3.23	11.0	101.6	17.68	2.46	49
HCJ121	10.0	29 730	101 470	9.23	22.0	3.22	11.0	116.4	20.24	2.46	49

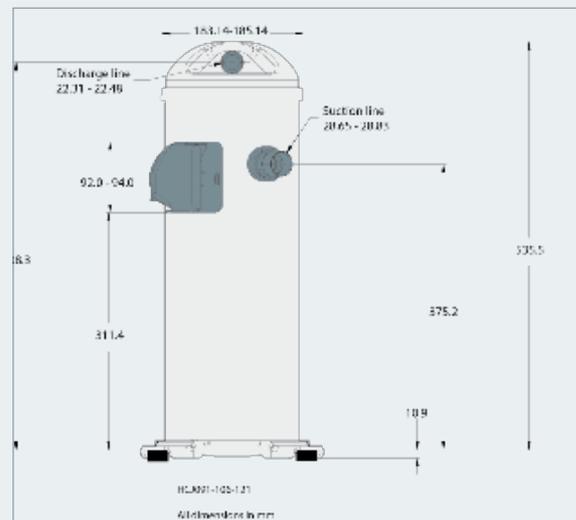
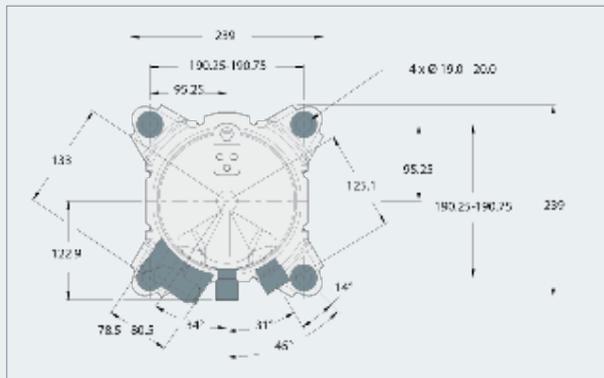
TR = Ton of Refrigeration
COP = Coefficient Of Performance
EER = Energy Efficiency Ratio

ARI standard rating conditions: evaporating temperature : 7.2 °C; condensing temperature: 54.4 °C
superheat: 11.1 K; sub-cooling: 8.3 K
Nominal capacity @ 60Hz
400V / 3ph / 50Hz

Operating envelope



Drawings



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