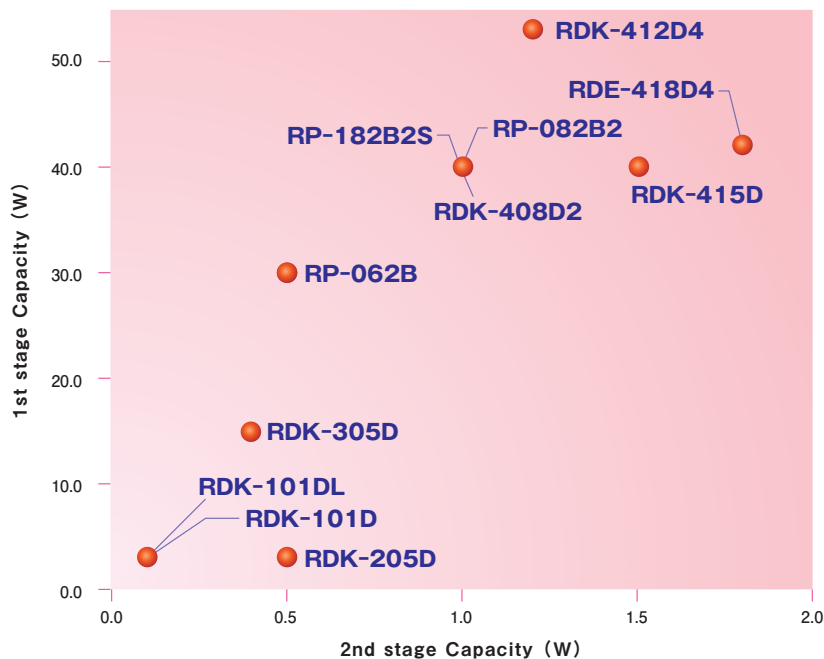


住友重機械工業(株)製 4K 冷凍機シリーズ

The SHI 4K Cryocooler series

小型超電導マグネットから、実験・計測に手軽なタイプまで充実の小型 4K シリーズ。

The SHI 4K series suitable from small superconducting magnets to analytical and experimental applications.



仕様 Specifications

Cold head	RDK-101D	RDK-101DL	RDK-205D	RDK-305D	RDK-408D2	RDK-412D4	RDK-415D	RDE-418D4	RP-062B	RP-082B2	RP-182B2S
Cooling capacity 1st Stage (50/60 Hz)	3.0/5.0 W@60 K 3.0/5.0 W@45 K (HC)	3.0/5.0 W@60 K 3.0/5.0 W@45 K (HC)	3.0/4.0 W@50 K	15/20 W@40 K	40/50 W@43 K	53/60 W@43 K	35/45 W@50 K	42/50 W@50 K	30 W@65 K	40 W@45 K (Water-cooled) 34 W@45 K (Air-cooled)	36 W@48 K
2nd Stage (50/60 Hz)	0.1 W@4.2 K 0.16/0.2 W@4.2 K (HC)	0.1 W@4.2 K 0.16/0.2 W@4.2 K (HC)	0.5/0.5 W@4.2 K (HC)	0.4 W@4.2 K	1.0 W@4.2 K	1.25 W@4.2 K	1.5 W@4.2 K	1.8/2.0 W@4.2 K	0.5 W@4.2 K	1.0 W@4.2 K (Water-cooled) 0.8 W@4.2 K (Air-cooled)	1.5 W@4.2 K
Lowest temperature (2nd Stage)*1	< 3.0 K	< 2.3 K	< 3.5 K	< 3.5 K	< 3.5 K	< 3.5 K	< 3.5 K	< 3.5 K	< 3.5 K	< 3.0 K	< 2.8 K
Ambient temperature (Cold head)	5 ~ 35 °C*2	4 ~ 38 °C*3	5 ~ 35 °C*2	5 ~ 35 °C*2	5 ~ 35 °C*3	5 ~ 35 °C*3	5 ~ 35 °C*3	5 ~ 35 °C	5 ~ 35 °C*3	5 ~ 35 °C*3	5 ~ 35 °C*4
Compatible compressor	CNA-11B HC-4E2 HC-4A2	CNA-11B HC-4E2 HC-4A2	CKW-21A	F-40L FA-40L	F-50L CSA-71A FA-70L	F-50L CSA-71A F-40L FA-40L	F-50L CSA-71A FA-70L	F-50L CSA-71A	F-50L	F-70LP FA-70L	F-100L

*1 Lowest temperature, cooldown time are For reference. (Depending on ambient temperature, cooling water temperature, etc.) *2 Indoor flexline : 10m, Outdoor flexline : 10m

*3 Cooling capacity may degrade by max.5% if ambient temperature is above 28°C. Specifications subject to change without notice.

*4 Cooling capacity may degrade by max.10% if ambient temperature is above 28°C. Specifications subject to change without notice.

Compressor unit	CNA-11B	HC-4E2	HC-4A2	CKW-21A	F-40L	FA-40L	F-50L	CSA-71A	F-70LP	FA-70L	F-100L
Cooling method	Air-cooled	Water-cooled	Air-cooled	Water-cooled	Water-cooled	Air-cooled	Water-cooled	Air-cooled	Water-cooled	Air-cooled	Water-cooled
Installation environment	Indoor	Indoor	Indoor	Indoor	Indoor	Indoor	Indoor	Indoor	Indoor	Outdoor	Indoor
Power (50/60 Hz)	Single phase AC100 V	Single phase AC200 V	Single phase AC200 V	3 phase AC200 V	3 phase AC200 V	3 phase AC200 V	3 phase AC200 V	3 phase AC200 V	3 phase AC200 V	3 phase AC200 V	3 phase AC200 V
Power consumption Steady (50/60 Hz)	1.2/1.3 kW	2.2/2.5 kW	2.5/2.8 kW	2.7/3.5 kW	3.8/4.8 kW	3.8/4.8 kW	6.5/7.2 kW 7.5/8.3 kW	6.5/7.5 kW	7.7/9.1 kW	7.2/8.2 kW (GM) 7.2/8.5 kW (PT)	11.8/14.5 kW
Operating current Steady (50/60 Hz)	MAX13 A	16 A	16 A	MAX11 A	MAX19 A	MAX19 A	MAX23/26 A	MAX25 A	MAX35 A	MAX30 A (GM) MAX35 A (PT)	MAX59 A
Power requirement (Min)	1.8 kVA	2.3/2.9 kVA (50/60 Hz)	2.7/3.3 kVA (50/60 Hz)	4.5 kVA	6.5 kVA	6.5 kVA	9 kVA	9 kVA	11 kVA	11 kVA	19 kVA
Power requirement (Recommended)	2.5 kVA	3.0/3.5 kVA (50/60 Hz)	3.5/4.8 kVA (50/60 Hz)	6.0 kVA	8.5 kVA	8.5 kVA	12 kVA	12 kVA	14 kVA	14 kVA	25 kVA

