



Product Catalog





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Pride Cryogenic is a technology oriented company concentrated on the development and manufacturing of cryocoolers and cryogenic engineering application devices. Pride Cryogenics's products include 4K GM cryocoolers, 10K GM cryocoolers, 77K GM cryocoolers, cryostats, helium reliquefiers, gas recovery, purification and liquefaction systems and other customised cryogenic systems.

COMPANY PROFILE

PRIDE Cryogenics brings together many talents in technique, management and marketing areas. PRIDE Cryogenics is specialized in the research and development of cryogenic and electronic devices. PRIDE Cryogenics has independent intellectual property rights for several key technologies, such as Inertance Gap Phase Shift Cryocooler, Nano-Filtration Channel Oil Separation Technology, which improve the performance and reliability of products, and thus enlarge the application area of cryogenic products.

PRIDE Cryogenics takes "Optimizing Management, Pursuing Excellence, Continuous Improvement, Customer Satisfaction" as quality policy. PRIDE Cryogenics has obtained ISO9001, CE, UL certificates. With the series of quality detection means, PRIDE Cryogenics's products have high stability and high reliability.

PRIDE Cryogenics takes"Integrity, Diligence, Adherence" as company spirit to create a world leading business, and aims at boosting the nationalization and industrialization of cryogenic technology. PRIDE Cryogenics focuses on the development of cryogenic industry, works hard to meet the customers' needs in all aspects, provides cost effective products, professional technical support and customer-oriented services, and eventually contributes to the industrial and research development all around.

LEADING NEW CRYOGENICS TECHNOLOGIES



DEVELOPMENT HISTORY (

2016.8

GM cryocooler completed to provide scale selling through abroad marketing. 06

2018.9

2015.5

Has successfully developed Ne-He Refining Units in September, 2018.

05

04

GM cryocoolers were supplied towards MRI companies in large volumes.

2013.7

Became a member of CSSC

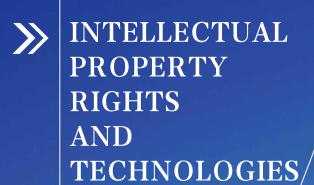
03

2011.3 02

Has successfully developed Helium **Recovery Purification and Liquefaction** system.

2010.1

Founded in Jan, 2010 with a registered capital of RMB 30 Million.In August, the first GM cryocooler was developed.



- Gas phase-shifting cryogenic technology
- Nanoscale filtration channel oil separation technology
- Gas purification separation, condensation, liquefaction, recovery technology
- Ultra-low vibration, ultra-precision temperature control, ultra-low temperature cryostat technology
- Large-scale cryogenic cold box, valve box integration technology
- Multi-channel composite pipe technology

















CRYOCOOLERS

KDE420SA KDE418SA, KDE415SA, KDE412SA, KDE410SA, KDE401SA, KDE210SA, KDE400SA, KDE300SA KDE400SX, KDC6000V, KDC6000, KDC4000F, KDC2000F, KDC1000A

Gifford-Mcmahon (GM) cryocooler is invented by Gifford and Mcmahon, whose refrigeration principle is Gas Adiabatic Expansion. Its main components include cold head, helium hose and helium compressor.

Due to the property of high reliability, long service life and easy to control, GM cryocooler becomes the only one of cryocoolers which has been industrialized. This kind of cryocooler entirely depended on import until Pride Cryogenics was founded. We break the technology monopolistic of foreign companies.

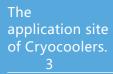
CRYOCOOLERS APPLICATION SITE



The application site of Cryocoolers.



The application site of Cryocoolers.





The application site of Cryocoolers.



KDE420SA 🕊

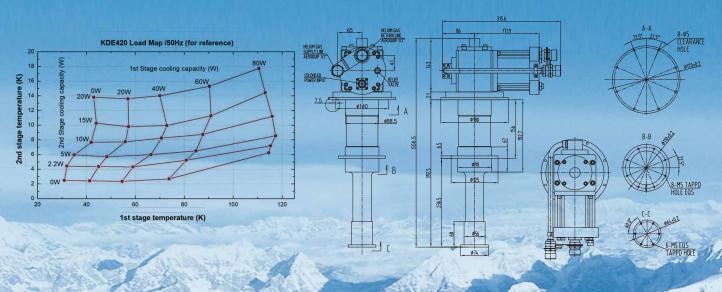


			The state of the s
	and the second	KDE420SA	
	Lowest Temperature	< 3.5K	
	C ! C ! (FOLL)	First Stage	Second Stage
	Cooling Capacity (50Hz)	20W @ 50K	2.0W @ 4.2K
	Cooldown Time (2nd stage)	< 60mir	n(4.2K)
SPE	Weight Compressor Type Power Consumption(50Hz)	Coldhead	Compressor
CF CF		19 kg	118 kg
Ç	Compressor Type	KDC6000	
TIC	Power Consumption(50Hz)	Steady	Cooldown
ž		6.9kW	7.5kW
	Cooling Type	Water	
	Cooling Water Requirement	> 7 L/min	
	Standard Flexline	20A×20m	
	Warranty Time	Coldhead	
	Trairie Time	18 mo	nths

AMBIENT REQUIREMENT

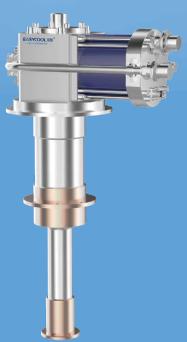
ltem	Operating	Storage
Ambient Temperature	4-40 ℃	-20-65 ℃
Relative Humidity	30%-70%	10%-90%(Requiring No-condensing)
Ambient atmospheric pressure	70kPa~110kPa	20kPa~110kPa

TYPICAL LOAD MAP(50HZ)



>> KDE418SA

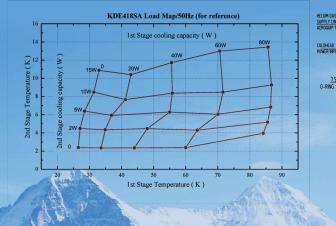
		KDE418SA	
	Lowest Temperature	< 3.5K	
	Cooling Capacity (50Hz)	First Stage	Second Stage
	Cooling Capacity (30112)	35W @ 50K	1.75W @ 4.2K
	Cooldown Time (2nd stage)	< 60mir	n(4.2K)
SPECIFICATION	Weight	Coldhead	Compressor
Ë	Weight	19 kg	118 kg
Compressor Type		KDC6000V	
	Power Consumption(50Hz)	Steady	Cooldown
ž		6.5kW	7.2kW
	Cooling Type	Water	
	Cooling Water Requirement	> 7 L/min	
	Standard Flexline	20A×20m	
	Warranty Time	Coldhead	
	Warranty Time	18 months	

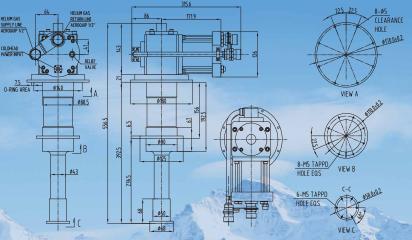


AMBIENT REQUIREMENT

Item	Operating	Storage
Ambient Temperature	4-40 °C	-20-65 °C
Relative Humidity	30%-70%	10%-90%(Requiring No-condensing)
Ambient atmospheric pressure	70kPa~110kPa	20kPa~110kPa

TYPICAL LOAD MAP(50HZ)





KDE415SA 🕊

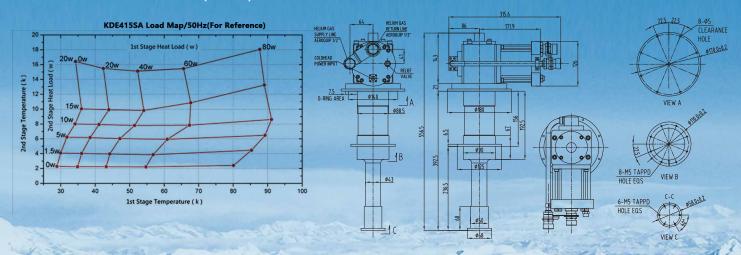


	and the second second	KDE415SA		
	Lowest Temperature	< 3.	5K	
	Cooling Conscity (FOLL=)	First Stage	Second Stage	
	Cooling Capacity (50Hz)	35W @ 50K	1.5W @ 4.2K	
	Cooldown Time (2nd stage)	< 60mir	n(4.2K)	
SPE	Weight	Coldhead	Compressor	
SPECIFICATION	Weight	19 kg	118 kg	
Ç	Compressor Type	KDC6000V		
	Power Consumption(50Hz)	Steady	Cooldown	
Ž	Tower Consumption(30112)	6.5kW	7.2kW	
	Cooling Type	Water		
	Cooling Water Requirement	> 7 L/min		
	Standard Flexline	20A×20m		
	Warranty Time	Coldhead		
	- vvarranty finie	18 months		

AMBIENT REQUIREMENT

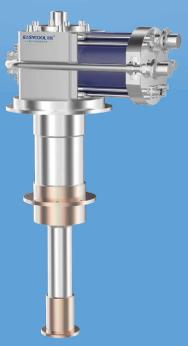
ltem	Operating	Storage
Ambient Temperature	4-40 ℃	-20-65 °C
Relative Humidity	30%-70%	10%-90%(Requiring No-condensing)
Ambient atmospheric pressure	70kPa~110kPa	20kPa~110kPa

TYPICAL LOAD MAP(50HZ)



>> KDE412SA

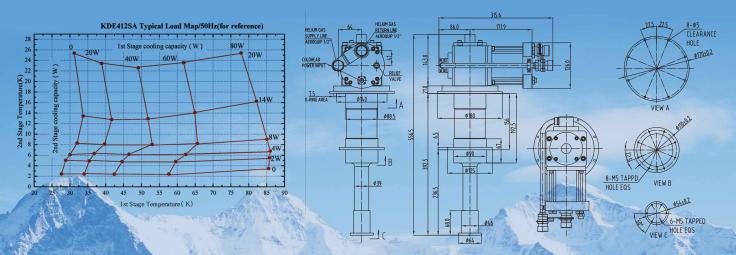
		KDE412SA	
	Lowest Temperature	< 3.5K	
	C lin C it / [O I -)	First Stage	Second Stage
	Cooling Capacity (50Hz)	40W @ 45K	1.25W @ 4.2K
	Cooldown Time (2nd stage)	< 60min(4.2K)	
SPECIFICATION	Weight	Coldhead	Compressor
:CF	Weight	18.5 kg	118 kg
Š	Compressor Type	KDC6000V、KDC4000F	
	Power Consumption(50Hz)	Steady	Cooldown
ž		6.5kW	7.2kW
	Cooling Type	Water	
Cooling Water Requiremen		> 7 L/min	
	Standard Flexline	20A×20m	
	Warranty Time	Coldhead	
- vvarranty fine		18 months	



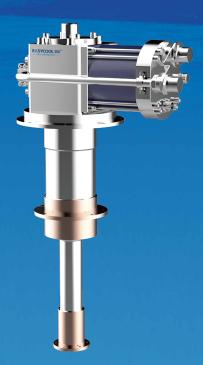
AMBIENT REQUIREMENT

ltem	Operating	Storage
Ambient Temperature	4-40 °C	-20-65 ℃
Relative Humidity	30%-70%	10%-90%(Requiring No-condensing)
Ambient atmospheric pressure	70kPa~110kPa	20kPa~110kPa

TYPICAL LOAD MAP(50HZ)



KDE410SA «

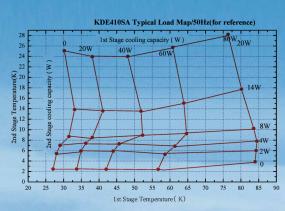


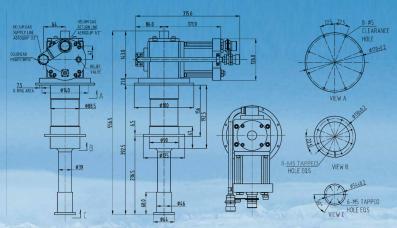
The second second	KDE410SA			
Lowest Temperature	< 3.5K			
Cooling Capacity (50Hz)	First Stage	Second Stage		
	40W @ 45K	1.0W @ 4.2K		
Cooldown Time (2nd stage)	< 60min(4.2K)			
Weight	Coldhead	Compressor		
	18.5 kg	118 kg		
Compressor Type	KDC6000V			
Power Consumption(50Hz)	Steady	Cooldown		
Amerikan di Kabupatèn di Kabupatèn Kabupatèn Kabupatèn Kabupatèn Kabupatèn Kabupatèn Kabupatèn Kabupatèn Kabup	6.5kW	7.2kW		
Cooling Type	Water			
Cooling Water Requirement	> 7 L/min			
Standard Flexline	20A×20m			
Warranty Time	Coldhead			
Warranty Time	18 months			
	Cooling Capacity (50Hz) Cooldown Time (2nd stage) Weight Compressor Type Power Consumption(50Hz) Cooling Type Cooling Water Requirement	Lowest Temperature < 3. Cooling Capacity (50Hz) First Stage 40W @ 45K Cooldown Time (2nd stage) < 60min Weight Coldhead 18.5 kg Compressor Type Fower Consumption(50Hz) Cooling Type Cooling Type Cooling Water Requirement Standard Flexline Warranty Time Cooling Stage Coldhead 18.5 kg Coldhead Coldhead		

AMBIENT REQUIREMENT

Item	Operating	Storage
Ambient Temperature	4-40 °C	-20-65 ℃
Relative Humidity	30%-70%	10%-90%(Requiring No-condensing)
Ambient atmospheric pressure	70kPa~110kPa	20kPa~110kPa

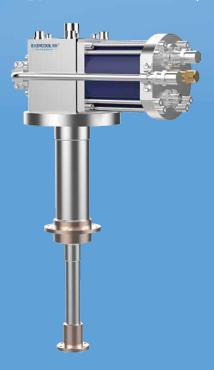
TYPICAL LOAD MAP(50HZ)





>> KDE401S2

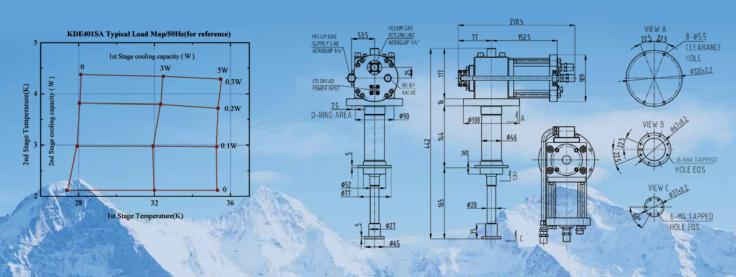
		KDE401S2	
	Lowest Temperature	< 2.5K	
	C lin C it (FOLL-)	First Stage	Second Stage
	Cooling Capacity (50Hz)	3W @ 45K	0.2W/0.1W @ 4.2K
	Cooldown Time (2nd stage)	< 120r	min(4.2K)
SPECIFICATION	Weight	Coldhead	Compressor
Œ.	Weight	8.9 kg	86 kg
Ç	Compressor Type	KDC2000F/KDC1000A	
	Power Consumption(50Hz)	Steady	Cooldown
ž	Tower consumption(50112)	3.2kW	3.5kW
	Cooling Type	Air	
	Air Flow Rate	600Nm³/hr	
	Standard Flexline	15A×10m	
	Warranty Timo	Coldhead	
Warranty Time		12 months	



AMBIENT REQUIREMENT

Item	Operating	Storage
Ambient Temperature	4-40 °C	-20-65 ℃
Relative Humidity	30%-70%	10%-90%(Requiring No-condensing)
Ambient atmospheric pressure	70kPa~110kPa	20kPa~110kPa

TYPICAL LOAD MAP(50HZ)



KDE210SA 🕊

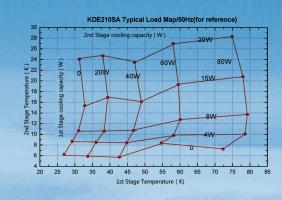


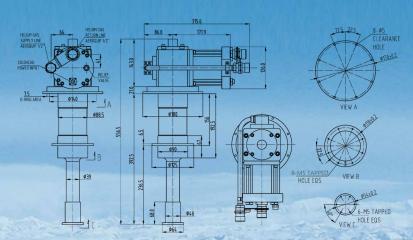
	1 1 2 1 1 1 1 1 1	A. 1. 1 18 A. B. 12 C. 17 A. March.
and the same of	KDE210SA	
Lowest Temperature	< 10	OK .
Cooling Conscity (FOLL=)	First Stage	Second Stage
Cooling Capacity (50HZ)	40W @ 45K	5W @ 10K
Cooldown Time (2nd stage)	< 60mi	n(10K)
Weight	Coldhead	Compressor
Weight Compressor Type Power Consumption(50Hz)	17.8 kg	118 kg
Compressor Type	KDC6000V	
Power Consumption(50Hz)	Steady	Cooldown
	6.5kW	7.2kW
Cooling Type	Water	
Cooling Water Requirement	> 7 L/min	
Standard Flexline	20A×20m	
Warranty Time	Coldhead	
warranty mine	18 months	
	Cooling Capacity (50Hz) Cooldown Time (2nd stage) Weight Compressor Type Power Consumption(50Hz) Cooling Type Cooling Water Requirement	Lowest Temperature < 10 Cooling Capacity (50Hz) First Stage 40W @ 45K Cooldown Time (2nd stage) < 60mi Weight Coldhead 17.8 kg Compressor Type KDC60 Power Consumption(50Hz) Cooling Type Wat Cooling Type Wat Cooling Water Requirement > 7 Ly Standard Flexline 20A × 20 Warranty Time

AMBIENT REQUIREMENT

Item	Operating	Storage
Ambient Temperature	4-40 ℃	-20-65 ℃
Relative Humidity	30%-70%	10%-90%(Requiring No-condensing)
Ambient atmospheric pressure	70kPa~110kPa	20kPa~110kPa

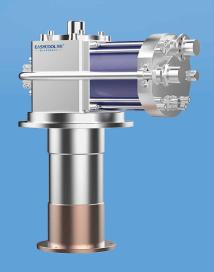
TYPICAL LOAD MAP(50HZ)





>> KDE400SA

		KDE40	OSA -
	Lowest Temperature	< 30K	
	Cooling Capacity (50Hz)	First Stage	/
	Cooling Capacity (50HZ)	54W @ 40K	/
	Cooldown Time (2nd stage)	< 40min(30K)	
SPECIFICATION	Weight	Coldhead	Compressor
CF	Weight	16.8 kg	118 kg
Ç	Compressor Type	KDC6000V	
	Power Consumption(50Hz)	Steady	Cooldown
ž		6.5kW	7.2kW
	Cooling Type	Water	
	Cooling Water Requirement	> 7 L/min	
	Standard Flexline	20A×20m	
	Warranty Time	Coldhead	
	Warranty Time	18 months	



AMBIENT REQUIREMENT

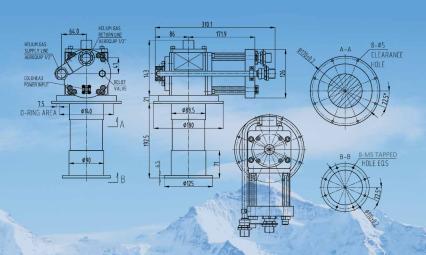
ltem	Operating	Storage
Ambient Temperature	4-40 ℃	-20-65 ℃
Relative Humidity	30%-70%	10%-90%(Requiring No-condensing)
Ambient atmospheric pressure	70kPa~110kPa	20kPa~110kPa

TYPICAL LOAD MAP(50HZ)

160 140 120 —Test 1 —Test 2

80 100 120 Cooling Capacity(W)

KDE400SA Typical Load Map (For Reference)



KDE300SA «



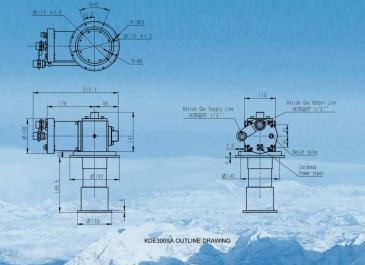
	and the same of	KDE300SA	
	Lowest Temperature	< 25K	
	C 1: C : (FOLL)	First Stage	/
	Cooling Capacity (50Hz)	250W @ 77K	/
	Cooldown Time (2nd stage)	< 20min	(70K)
SPECIFICATION	Weight	Coldhead	Compressor
Ë	Neight .	18 kg	118 kg
Ĉ	Compressor Type	KDC6000	
	Power Consumption(50Hz)	Steady	Cooldown
ž		7.0kW	7.5kW
	Cooling Type	Water	
	Cooling Water Requirement	> 7 L/min	
	Standard Flexline	20A×20m	
	Warranty Time	Coldhead	
	- Viarranty Time	18 months	

AMBIENT REQUIREMENT

ltem	Operating	Storage
Ambient Temperature	4-40 ℃	-20-65 ℃
Relative Humidity	30%-70%	10%-90%(Requiring No-condensing)
Ambient atmospheric pressure	70kPa~110kPa	20kPa~110kPa

TYPICAL LOAD MAP(50HZ)

KDE300SA Typical Load Map/50Hz(for reference) 400 350 300 250 100 50 0 20 40 60 80 100 120 140 160 180 Temperature(K)



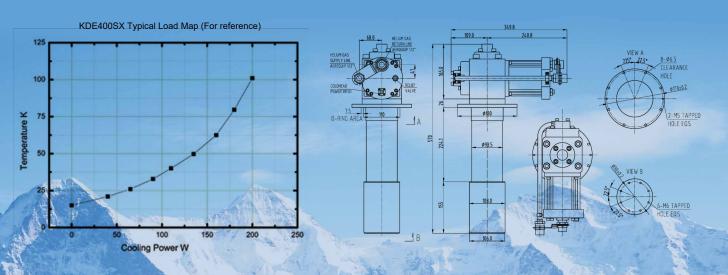
>> KDE400SX



AMBIENT REQUIREMENT

Item	Operating	Storage
Ambient Temperature	4-40 ℃	-20-65 ℃
Relative Humidity	30%-70%	10%-90%(Requiring No-condensing)
Ambient atmospheric pressure	70kPa~110kPa	20kPa~110kPa

TYPICAL LOAD MAP(50HZ)



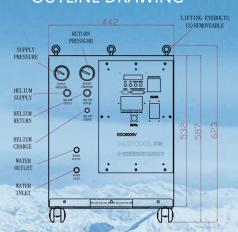
KDC6000V **《**



			Commission of the state of the
	Compressor Type	KDC6	000V
	Electrical Power	380,400V@50Hz 3P 480V@60Hz 3P	
	Helium Purity Requirement	>99.999%	
	Cooling Type	Water	
SÞ	Water Flow	7L~10L/min (28°C)	
SPECIFICATION	Cooling Water Tamparatura	Inlet	Out
E Cooling wat	Cooling Water Temperature	5~25°C	< 44°C
AT	Power Consumption(50Hz)	Steady	Cooldown
2		6.5kW	7.2kW
	Pressure Range(Operating)	Supply	Return
	rressure Kange(Operating)	16.6~23bar	2.8~6.9bar
	Ambient Temperature	Operating	Storage
	7 molent lemperature	4~40°C	-20~65°C
	Standard Flexline	20A×20m	
	Warranty Time	36 months	
	Weight	118	skg

AMBIENT REQUIREMENT

Item	Operating	Storage
Ambient Temperature	4-40 °C	-20-65 ℃
Relative Humidity	30%-70%	10%-90%(Requiring No-condensing)
Ambient atmospheric pressure	70kPa~110kPa	20kPa~110kPa







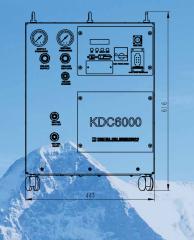
>> KDC6000

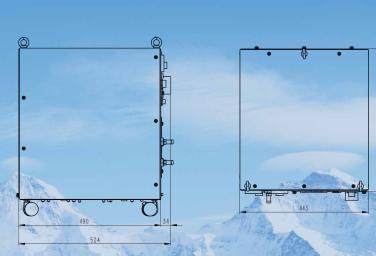
	Compressor Type	KDC	6000
	Electrical Power	380,400V@50Hz 3P 480V@60Hz 3P	
	Helium Purity Requirement	>99.999%	
	Cooling Type	Wa	iter
SP	Water Flow	7L~10L/n	nin (28°C)
SPECIFICATION	Cooling Water Temperature	Inlet	Out
FC	Cooling Water Temperature	5~35°C	< 44°C
ATIO	Power Consumption(50Hz)	Steady	Cooldown
2	rower Consumption(30112)	6.6~6.9kW	8.5kW
	Pressure Range(Operating)	Supply	Return
	r ressure Nange(Operating)	15.6~23bar	2.8~6.9bar
	Ambient Temperature	Operating	Storage
	7 Timble it lemperature	4~40°C	-20~65°C
	Standard Flexline	20A×20m	
	Warranty Time	36 months	
	Weight	118kg	



AMBIENT REQUIREMENT

Item	Operating	Storage
Ambient Temperature	4-40 °C	-20-65 °C
Relative Humidity	30%-70%	10%-90%(Requiring No-condensing)
Ambient atmospheric pressure	70kPa~110kPa	20kPa~110kPa





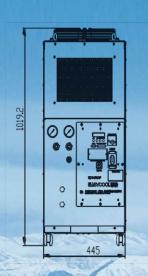
KDC4000F **《**



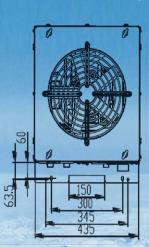
	Compressor Type	KDC4000F			
	Electrical Power	380V@50Hz 3P			
	Helium Purity Requirement	>99.999%			
	Gas Pressure	Exhaust	Return		
	Oas Flessure	2.0MPa	0.7MPa		
SÞ	Power Consumption(50Hz)	5.0kW			
SPECIFICATION	Cooling Type	Air cooling			
FIC	Air Flow Rate	1300Nm³/h			
ATIO	Ambient Temperature	Operating	Storage		
ON N	Ambient lemperature	4°C∼38°C	-20°C~65°C		
	Relative Humidity	Operating	Storage		
		30%~70%	10%~90%		
	Weight	130kg			
	Dimension(L*W*H)	445*490*1019(mm)			
	Normal Warranty Time	24months			

KDE412SA-KDC4000F PARAMETERS

1st stage cooling power	35W@50K
2nd stage cooling power	0.85W@4.2K
cool down time (to 4.2K)	60min







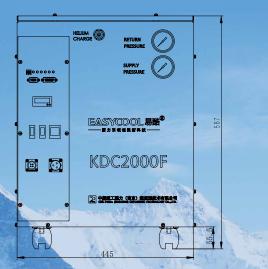
➤ KDC2000F

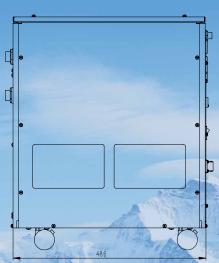
	Compressor Type	KDC2000F	
	Electrical Power	220V@50Hz 1P	
	Helium Purity Requirement	>99.999%	
	Cooling Type	Air	
	Air Flow Rate	1800Nm³/h	
SPECIFICATION	Power Consumption(50Hz)	Steady	Cooldown
CIF	Tower Consumption(30112)	3.2kW	3.5kW
ICA:	Pressure Range(Operating)	Supply	Return
ПО	Pressure Kange(Operating)	16~23bar	2.5~8bar
Z	Ambient Temperature	Operating	Storage
	Ambient lemperature	4°C~30°C	-20°C~65°C
	Standard Flexline	15A×10m	
	Warranty Time	24months	
	Weight	86kg	



AMBIENT REQUIREMENT

Item	Operating	Storage
Ambient Temperature	4-40 °C	-20-65 °C
Relative Humidity	30%-70%	10%-90%(Requiring No-condensing)
Ambient atmospheric pressure	70kPa~110kPa	20kPa~110kPa





KDC1000A **≪**

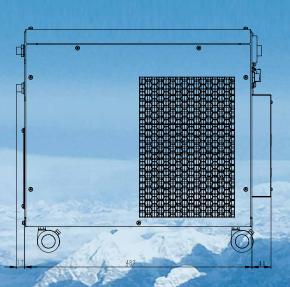


	The transfer of the state of th		Lander Alle Cont. de
	Compressor Type	KDC1000A	
	Electrical Power	220V@50Hz 1P	
	Helium Purity Requirement	>99.999%	
	Cooling Type	Air	
	Air Flow Rate	180Nm³/h	
SPE	Power Consumption(50Hz)	Steady	Cooldown
SPECIFICATION	rower consumption(30112)	1.3kW	1.5kW
	Droccure Dange (Operating)	Supply	Return
	Pressure Range(Operating)	21~25bar	8~10bar
	Ambient Temperature	Operating	Storage
	Ambient lemperature	4°C~30°C	-20°C~65°C
	Standard Flexline	10A×3m	
	Warranty Time	24months	
	Weight	68	3kg

AMBIENT REQUIREMENT

Item	Operating	Storage
Ambient Temperature	4-40 °C	-20-65 ℃
Relative Humidity	30%-70%	10%-90%(Requiring No-condensing)
Ambient atmospheric pressure	70kPa~110kPa	20kPa~110kPa







Helium Recovery, Purification and Liquefaction System

The chemical reaction of noble gas is very difficult and it is colorless and odorless. Due to the special nature, noble gas is indispensable in some application areas, especially the high purity noble gas is needed by more and more industries nowadays. Because of this, the price of this kind of gas is going higher continuously, so its recovery and re-purification is very meaningful. However, most of equipment for the noble gas recovery and re-purification depend on import. PRIDE Cryogenics uses the purification principle of low-temperature condensation, curing and adsorption to get high purity gas (purity>99.999%) according to the difference condensation point, freezing point of different gas and the nature of the adsorption agent's ability will be greatly enhanced, can also be liquefied storage. This kind of system also can be customized and auto-control designed by our company, and it is no need for personnel on duty and easy to use.



CAN BE CUSTOMIZED ACCORDING TO CUSTOMERS' REQUIREMENTS

Helium Purifier - Cold Source is GM Cryocooler

	Dimension	0.8 ×1 .1×2.1m
	Purity Requirements for Inlet Helium	>90% [Water concentration: ≤2PPM CO₂ concentration: ≤2PPM]
	Purification Rate	≤10Nm³/h
SP	Working Pressure	2.5~5MPa
SPECIFICATION	Purity of Outlet Helium	>99.999%
FIC/	Purification Time	≥6h
TIC	Regeneration Time	≤6h
ž	Power Consumption	3P, AC380V, 50Hz; 1P, AC220V, 60Hz (Power consumption < 9kW)
	Power supply of control unit	Single PH AC110V—240V 50~60Hz
	Number of GM Coolers	1
	Features	Automatic Control

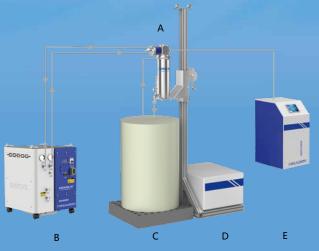


Helium Purifier - Cold Source is liquid Nitrogen



SPECIFICATION	Single treatment capacity		≥1000Nm³	
	Purification Pressure		2-3MPa	
	Purification flo	w	60-1000 SLM	
	Feed gas concentration		≥98%	
	Purification Te	77K		
	Purity of outle	>99.999%		
	Regenerated	≈120Nm³/h		
	Liquid Nitrogen consumption		≈15L/h	
9	Dimension (mm:L*W*H)		760*760*2700	
	Weight		≈3000kg	
	Dower ounds	Power electricity	4kW@380V	
	Power supply	Instrument electricity	1kW@220V	

>> KDHR15 Helium Reliquefier



A: Liquefier Coldbox

B: KDC6000V Compressor

C: Customer's Device(PPMS)

D: Lifting Frame

E: Control Unit

	Liquefy rate	15L/d@1psi
	Reliquefy rate	20L/d@1psi (Inlet is boiled-off cryo He)
	Vibration index	±2 μm
	Compressor power supply	3 phase 380V (50Hz) ; 3 phase 480V (60Hz)
	Control unit power supply	Single phase 110~240V (50~60Hz)
SPEC	Cooling water	Inlet temperature 5~25°C; Flow rate 7~10L/min; Pressure < 8bar
SPECIFICATION	Helium purity requirement	>99.999%
NOI	Cool down time(to full load liquefaction)	<3.5h
	Liquid helium infusion line	Material: SUS304, O.D: 9.5 mm, Length: 550mm (can be customized)
	Dimension(Cold box)	φ400×685mm(not include infusion tube)
	Dimension(Control unit)	<600×600×1500mm
	Features	The whole system is non-magnetic and has good electrical insulation from the customer equipment.
	Components	One KDE418SA-KDC6000V GM Cryocooler, one cold box, lifting frame , two sets 20A*20M helium lines , Control unit, pipes, valves and parts kit

Application site



Reference

Tsinghua University
Peking University
Institute of Physics,
Chinese Academy
of Sciences

KDHR30 Helium Reliquefier ≪

KDHR30 Helium Reliquefier integrates 2 sets of GM Cryocoolers, which is external hanging and vibration damping type. The boil off high purity helium gas from the customer's cryogenics cryostat get into the Helium reliquefier directly and be condensed to be liquid helium and get back to cryostat again through helium infusion tube.



	Liquefy rate	30L/Day@1Psi
	Reliquefy rate	40L/Day@1Psi
	Vibration index	±2um
	Dimension	450×220×666mm
		Cold box (without infusion tube)
	Weight	72kg (cold box)
	Cold head Model type	KDE418SA
SF	Compressor Model type	KDC6000V
SPECIFICATION	GM Cryocooler quantity	2 sets
CATI	Cool down time	4h
8	Cryocooler Power	3P, AC380V,50HZ:
	Consumption	Cool down:14.4kW
		Steady operation: 13.0kW
		Single phase,AC110V-240V,
	Control unit Power consumption	50-60HZ:
		1Kw
	Cooling water	Inlet temperature:5-25°C
		Flow rate:14-18L/min, pressure<8bar
	Helium gas	Purity: >99.999%
	Trondin gas	Temperature:-20-40℃

>>> I-Liquefier20 Compact Movable Helium Liquefier

I-Liquefier20 Compact Movable Helium Liquefier integrates 1 set GM Cryocooler as cold source, which has a typical feature that the cold head inserts into the Dewar directly. The Helium compressor and the liquefier cold box is installed together and skid-mounted into a small dimension. Such design allows that the liquid helium can be transferred into the customer's device directly and easy, no need a transportation Dewar so as to avoid liquid helium consumption.

	Helium liquefy rate	20L/d
	Dimension	1600x700x1500mm (compressor included)
	Weight	420kg(excluding compressor weight)
	Cold head	KDE418HL
	compressor	KDC6000V
	Quantity of cryocooler	1 set
(0	Dewar	150L
SPECI	Cooling time	<4h
SPECIFICATION	Power supply of GM cryocooler	3PH AC380V 50Hz Cooling down: 7.2Kw Steady Operation: 6.5Kw
Ž	Power supply of control unit	Single PH AC110V—240V 50~60Hz (Power consumption < 1KW)
	Cooling water	Inlet temperature 5~25℃, flow rate7-9L/min, pressure<8bar
		Purity: >99.999%
	Helium requirement	Inlet Temp.: -20 ℃~40 ℃



I-Liquefier40 Compact Movable Helium Liquefier 《

I-Liquefier40 Compact Movable Helium Liquefier integrates 1 set GM Cryocooler as cold source, which has a typical feature that the cold head inserts into the Dewar directly. The Helium compressor and the liquefier cold box is installed together and skid-mounted into a small dimension. Such design allows that the liquid helium can be transferred into the customer's device directly and easy, no need a transportation Dewar so as to avoid liquid helium consumption.



	Helium liquefy rate	40L/d
	Dimension	1650x760x1735mm (compressor included)
	Weight	570kg(excluding compressor weight)
	Cold head	KDE418HL
	compressor	KDC6000V
	Quantity of cryocooler	2 sets
S	Dewar	200L
PECIF	Cooling time	<4h
SPECIFICATION	Power supply of GM cryocooler	3PH AC380V 50Hz Cooling down: 14.4Kw Steady Operation:13Kw
Z	Power supply of control unit	Single PH AC110V—240V 50~60Hz (Power consumption < 1KW)
	Cooling water	Inlet temperature 5~25℃, flow rate14-18L/min, pressure<8bar
		Purity: >99.999%
	Helium requirement	Inlet Temp.: -20 ℃~40 ℃

Movable Helium Liquefier KDHRR40

	Liquefy rate	36L/day(5PSI)、40L/day(10PSI)	
	Dimension	1850*1150*2300	
	Weight	≈1000kg	
	Coldhead	KDE418HL	
	Compressor	KDC6000V	
န္	Quantity of cryocooler	2 sets	
ECIFIC	Dewar	250L(can be selected according to customer requirements)	
SPECIFICATION	Cool down time to liquid generation	<4h	
	Power supply of GM cryocooler	3P, AC380V, 50Hz; 3P, AC480V, 60Hz Cooling down: 15kW Steady: 14kW	
	Power supply of control unit	Single PH AC110V—240V 50~60Hz (Power consumption<1kW)	
	Cooling water	Inlet temperature 5~25°C, flow rate14~18 L/min, pressure<8bar; Pure water	
	Helium gas	Gas supply from high-pressure cylinder(Pressure: 2~40bar) Gas supply from helium recovery equipment(Pressure: 0~10PSI)	
		Gas purity: >99.999%	
		Inlet temperature: -20°C~40°C	





Movable Helium Liquefier KDHRR60 《





	Liquefy rate	54L/day(5PSI)、60L/day(10PSI)	
	Dimension	1850*1150*2300	
	Weight	≈1380kg	
	Coldhead	KDE418HL	
	Compressor	KDC6000V	
	Quantity of cryocooler	3 sets	
<u>s</u>	Dewar	250L(can be selected according to customer requirements)	
SPECIFICATION	Cool down time to liquid generation	<4h	
CATION	Power supply of GM cryocooler	3P, AC380V, 50Hz; 3P, AC480V, 60Hz Cooling down: 22kW Steady: 20kW	
	Power supply of control unit	Single PH AC110V—240V 50~60Hz (Power consumption<1kW)	
	Cooling water	Inlet temperature 5~25°C, flow rate21~27L/min, pressure≪8bar; Pure water	
	Helium gas	Gas supply from high-pressure cylinder(Pressure: 2~40bar) Gas supply from helium recovery equipment(Pressure: 0~10PSI)	
		Gas purity: >99.999%	
		Inlet temperature: -20℃~40℃	

>>

Helium Liquefier KDHRR80

	Liquefy rate	72L/day(5PSI)、80L/day(10PSI)	
	Dimension(mm)	Electric control cabinet: 750*1050*1600	
		Helium Liquefier: 1250*1230*2500	
		Electric control cabinet: ≈333kg	
	Weight	Cold box: ≈240kg	
		Frame: ≈75kg	
	Coldhead	KDE418HL	
	Compressor	KDC6000V	
	Quantity of cryocooler	4 sets	
SPECIFICATION	Dewar	500L(can be selected according to customer requirements)	
-ICATIC	Cool down time to liquid generation	<4h	
Ž	Power supply of GM cryocooler	3P, AC380V, 50Hz; 3P, AC480V, 60Hz Cooling down: 29kW Steady: 26kW	
	Power supply of control unit	Single PH AC110V—240V 50~60Hz (Power consumption<1kW)	
	Cooling water	Inlet temperature 5~25°C, flow rate28~36 L/min, pressure<8bar; Pure water	
	Helium gas	Gas supply from high-pressure cylinder (Pressure: 2~40bar) Gas supply from helium recovery equipment(Pressure: 0~10PSI)	
		Gas purity: >99.999%	
		Inlet temperature: -20°C~40°C	



Helium Liquefier KDHRR100 ≪



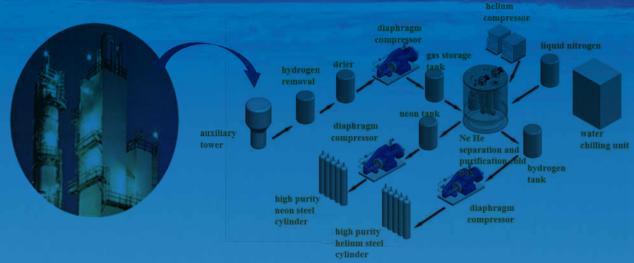
	Liquefy rate	90L/day(5PSI)、100L/day(10PSI)	
	Dimension(mm)	Electric control cabinet: 750*1050*1600	
		Helium Liquefier: 1250*1230*2500	
		Electric control cabinet: ≈333kg	
	Weight	Cold box: ≈260kg	
	**:1:	Frame: ≈75kg	
	Coldhead	KDE418HL	
	Compressor	KDC6000V	
SPE	Quantity of cryocooler	5 sets	
SPECIFICATION	Dewar	1000L(can be selected according to customer requirements)	
	Cool down time to liquid generation	<4h	
	Power supply of GM cryocooler	3P, AC380V, 50Hz; 3P, AC480V, 60Hz Cooling down:36kW Steady: 33kW	
	Power supply of control unit	Single PH AC110V—240V 50~60Hz (Power consumption<1kW)	
	Cooling water	Inlet temperature 5~25°C, flow rate28~36 L/min, pressure<8bar; Pure water	
	Helium gas	Gas supply from high-pressure cylinder (Pressure: 2~40bar) Gas supply from helium recovery equipment(Pressure: 0~10PSI)	
		Gas purity: >99.999%	
		Inlet temperature: -20°C~40°C	

>> Helium Liquefier KDHRR200

	Helium Liquefy rate	200L/day	
	Dimension(mm)	Electric control cabinet: 684*1180*1702	
		Helium Liquefier: 1720*1607*2739	
		Electric control cabinet: ≈333kg	
	Weight	Cold box: ≈594kg	
		Frame: ≈312kg	
	Coldhead	KDE418HL	
	Compressor	KDC6000V	
SPE	Quantity of cryocooler	10 sets	
SPECIFICATION	Dewar	1000L	
	Cool down time to liquid generation	<4h	
	Power supply of GM cryocooler	3P, AC380V, 50Hz; 3P, AC480V, 60Hz Cooling down:72kW Steady: 65kW	
	Power supply of control unit	Single PH AC110V—240V 50~60Hz (Power consumption<1kW)	
	Cooling water	Inlet temperature 5~25°C, flow rate14~18L/min, pressure < 8bar;	
	Holium requirement	purity: >99.999%	
	Helium requirement	Inlet temperature: -20°C~40°C	



Neon - Helium Refining Unit 《



Item	Raw gas	Product Gas	
	Content	Parameter	
N2(V/V%)	12		
Ne(V/V%)	56	>99.999	
He(V/V%)	29	>99.999	
H2(V/V%)	3		
Pressure(bar)	5		
Flow(Nm3/h)	20		







Cryogenic Helium Cycling System

The cold source of Cryogenic Helium Cycling System is KDE400SX-KDC6000 or KDE300A-KDC6000 cryocooler, one or multiple KDE400SX/KDE300A cold heads are paralleled inside the cold box. Helium gas is cooled by each cold head and equally distributed into helium cycling pump or room temperature helium compressor for pressurization and flow to cool down the customer's equipment. The main components of Cryogenic Cycling System is GM cryocooler, heat exchanger, control unit, tank, cycling compressor/cryogenic pump. This product can be used in the fast cool down process of magnet, superconducting motor cooling and other applications.

Main features

- The system can output one way or multiple ways cryogenic helium gas to cool down customer's equipment
- The cooling power range provided by the system can be 80~800W@70K, 50~800W@30K
- This system can provide different cooling power at different temperature according to customer's requirement
- The outlet and inlet port of cryogenic helium gas can be either or VCR
- The Circulating power of the system can be either room temperature cycling compressor or cryogenic cycling pump.

Room temperature cycling: The Circulating power of the system is room temperature cycling compressor, the lift is big, complex structure, and helium flow rate is small, mostly used in small cooling power and small temperature difference equipment

Cryogenic cycling: The Circulating power of the system is cryogenic cycling pump, the lift is small, simple structure, and helium flow rate is big, mostly used in big cooling power and big temperature difference equipment.



Cryogenic Helium Cycling System (6 Cold Heads)



KDE400SX



Cryogenic Helium Cycling System (10 Cold Heads)



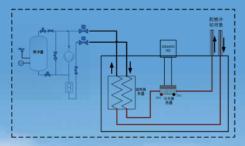
>> HCS-1 Cryogenic Cycling Helium System

HCS-1 Cryogenic Cycling Helium System uses room temperature helium compressor as circulating power, the cycling pressure is 3-5 bar, cold source is one set of GM Cryocooler and provide cooling power at 20K-80K.

SP	Flow rate	0~20Nm³/h	0~80Nm³/h
	Outlet cooling power	30W@30K (KDE400SX)	160W@70K (KDE300SA)
ECIF	Cycling type	Room temperature cycling	
CA:	Cycling pressure	3~5bar	
SPECIFICATION	Quantity of GM Cryocooler	1	
	Temperature range	20~300K	
	Temperature control precision	±1K	



Typical configuration		
Necessary components	Optional components (can be bought by customer)	
KDE400SX or KDE300SA cold head, 1 set	Vacuum pump	
KDC6000 compressor, 2 sets	Water chiller	
Vacuum chamber, 1 set	1	
Control unit, 1 set	1	
Heat exchanger, 1 set	1	
Tank, 1 set	1	



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HCS-2 Cryogenic Cycling Helium System uses room temperature helium compressor as circulating power, the cycling pressure is 3-5 bar, cold source is two sets of GM Cryocooler and provide cooling power at 20K-80K.



SP	Flow rate	0~20Nm³/h	0~80Nm³/h
	Outlet cooling power	90W@30K (KDE400SX)	400W@70K (KDE300SA)
SPECIFICATION	Cycling type	Room temperature cycling	
ICA:	Cycling pressure	3~5bar	
Į	Quantity of GM Cryocooler	1	
_	Temperature range	20~300K	
	Temperature control precision	±1K	

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Typical configuration	
Necessary components	Optional components (can be bought by customer)
KDE400SX or KDE300SA cold head, 2 sets	Vacuum pump
KDC6000 compressor, .3 sets	Water chiller
Vacuum chamber, 1 set	1
Control unit, 1 set	1
Heat exchanger, 1 set	1
Tank, 1 set	1

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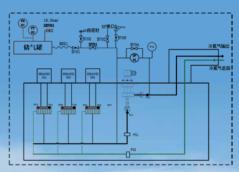
HCS-3 Cryogenic Cycling Helium System

HCS-3 Cryogenic Cycling Helium System uses cryogenic cycling pump as circulating power, the cycling pressure is 1-10 bar, cold source is three sets of GM Cryocooler and provide cooling power at 20K-80K.

	Cycling type	cryogenic cycling
	Cycling pressure	1~10bar
SPE	Flow rate	500~1000Nm³/h
SPECIFICATION	Quantity of GM Cryocooler	3
CATI	Temperature range	20~300K
9 N	Temperature control precision	±1K
	Outlet cooling power	90W@30K (KDE400SX)
		600W@70K (KDE300SA)

ELSYCOOL* G温氣气循环装置 Amendo (RE) BREAKRANGE

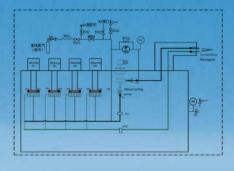
Typical configuration	
Necessary components	Optional components (can be bought by customer)
KDE400SX or KDE300SA cold head, 3 sets	Vacuum pump
KDC6000 compressor, .3 sets	Water chiller
Vacuum chamber, 1 set	1
Control unit, 1 set	1
Heat exchanger, 1 set	1
cryogenic cycling pump, 1 set	1



HCS-4 Cryogenic Cycling Helium System uses cryogenic cycling pump as circulating power, the cycling pressure is 1-10 bar, cold source is four sets of GM Cryocooler and provide cooling power at 20K-80K.



	Cycling type	cryogenic cycling
	Cycling pressure	1~10bar
SPE	Flow rate	500~1000Nm³/h
CH	Quantity of GM Cryocooler	4
SPECIFICATION	Temperature range	20~300K
ᄝ	Temperature control precision	±1K
	Outlet cooling power	140W@30K (KDE400SX)
		840W@70K (KDE300SA)



Typical configuration	
Necessary components	Optional components (can be bought by customer)
KDE400SX or KDE300SA cold head, 4 sets	Vacuum pump
KDC6000 compressor, .4 sets	Water chiller
Vacuum chamber, 1 set	1
Control unit, 1 set	1
Heat exchanger, 1 set	1
cryogenic cycling pump, 1 set	1

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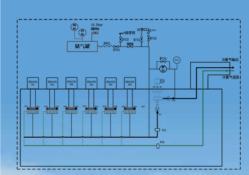
HCS-6 Cryogenic Cycling Helium System

HCS-6 Cryogenic Cycling Helium System uses cryogenic cycling pump as circulating power, the cycling pressure is 1-10 bar, cold source is six sets of GM Cryocooler and provide cooling power at 20K-80K.

	Cycling type	cryogenic cycling
SPE	Cycling pressure	1~10bar
	Flow rate	500~1000Nm³/h
CIFI	Quantity of GM Cryocooler	6
SPECIFICATION	Temperature range	20~300K
	Temperature control precision	±1K
	Outlet cooling power	300W@30K (KDE400SX)
		1300W@70K (KDE300SA)



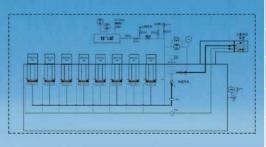
Typical configuration	
Necessary components	Optional components (can be bought by customer)
KDE400SX or KDE300SA cold head, 6 sets	Vacuum pump
KDC6000 compressor, .6 sets	Water chiller
Vacuum chamber, 1 set	1
Control unit, 1 set	1
Heat exchanger, 1 set	1
cryogenic cycling pump, 1 set	1



HCS-8 Cryogenic Cycling Helium System uses cryogenic cycling pump as circulating power, the cycling pressure is 1-10 bar, cold source is six sets of GM Cryocooler and provide cooling power at 20K-80K.



	Cycling type	cryogenic cycling
	Cycling pressure	1~10bar
SPE	Flow rate	500~1000Nm³/h
SPECIFICATION	Quantity of GM Cryocooler	8
CATI	Temperature range	20~300K
9	Temperature control precision	±1K
	Outlet cooling power	400W@30K (KDE400SX)
		1780W@70K (KDE300SA)



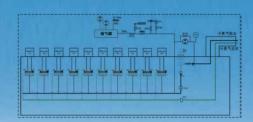
Typical configuration	
Necessary components	Optional components (can be bought by customer)
KDE400SX or KDE300SA cold head, 8 sets	Vacuum pump
KDC6000 compressor, 8 sets	Water chiller
Vacuum chamber, 1 set	1
Control unit, 1 set	1
Heat exchanger, 1 set	1
cryogenic cycling pump, 1 set	1

HCS-10 Cryogenic Cycling Helium System uses cryogenic cycling pump as circulating power, the cycling pressure is 1-10 bar, cold source is ten sets of GM Cryocooler and provide cooling power at 20K-80K.

SPECIFICATION	Cycling type	cryogenic cycling	
	Cycling pressure	1~10bar	
	Flow rate	500~1000Nm³/h	
	Quantity of GM Cryocooler	10	
	Temperature range	20~300K	
	Temperature control precision	±1K	
		500W@30K (KDE400SX)	
	Outlet cooling power	2260W@70K (KDE300SA)	



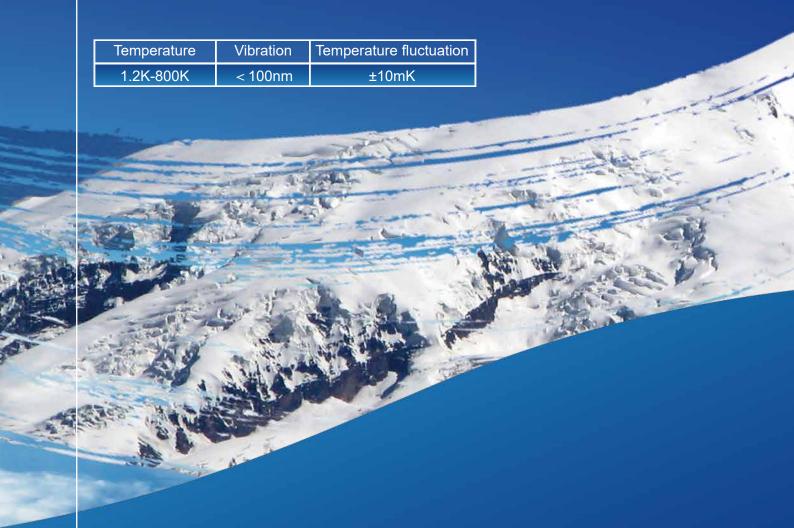
Typical configuration			
Necessary components	Optional components (can be bought by customer)		
KDE400SX or KDE300SA cold head, 10 sets	Vacuum pump		
KDC6000 compressor, 10 sets	Water chiller		
Vacuum chamber, 1 set	1		
Control unit, 1 set	1		
Heat exchanger, 1 set	1		
cryogenic cycling pump, 1 set	1		





Cryostats

CSIC Pride (Nanjing) Cryogenic Technology Co., Ltd will spare no efforts to provide our customers with various customized cryogenic solutions, such as cryogenic systems which take cryocoolers, liquid nitrogen or liquid helium as cold source. We can meet our customers' kinds of requirements, including 300K to 1.2K temperature demand, vibration requirements less than 10nm, temperature fluctuation less than ±1mk, etc. We also can provide solutions to meet the demand of special shape structure, bigger work space, observation window and filter.



CAN BE CUSTOMIZED ACCORDING TO CUSTOMERS' REQUIREMENTS

KDSSPD-4/6/9 **《**

Cryostat used in Superconducting Single Photon Detection System



The ultra-low temperature cryostat (Limit temperature < 2.3K) used in superconducting single photon detection system(SNSPD) is a standard and technically mature product of our company, which has been applied in quantum communication successfully. The SNSPD system using this cryostat has an apparent advantage over traditional semiconductor (APD, PMT) detection technology in detection performance (Including detection efficiency and dark count, etc.).

SPE(Limit Temperature	<2.3K
	Temperature stability	±5 mK
불	Number of SMA channels	4/6/9
CIFICATION	Fiber-optic interface	FC / PC multi-mode fiber
	Signal interface	SMA
	Leakage rate	<5 × 10 ⁻⁹ Pa⋅m³ / s @ 300K

TYPICAL APPLICATIONS

- Shanghai Institute of Microsystem And
 Information Technology, Chinese Academy of Sciences
 - -Nanjing University
 - —University of Science and Technology of China
 - —Changchun University of Science and Technology
- —_Tsinghua University,etc

PDCS04-ULV / PDCS10-ULV Ultra-low Vibration Cryostat

To creat an ultra-low vibration environment, Pride Cryogenic uses the helium gas as heat transfer medium, make the KDE415SA GM Cryocooler completely isolated from the sample to avoid vibration transfer to the sample holder, By using this technology, we realize the nanoscale ultra-low vibration control.

CC	KDE415SA Coldhead	1set	
	KDC6000V Helium Compressor	1set	
ž	20A*20m Flexible Gas Line	2sets	
G	Temperature control unit	1set	
CONFIGURATION	Stainless steel vacuum hood	1set	
	Oxygen-free radiation shield	1set	
	High purity quartz glass	2 pieces or more	
	Sample connection plug	1set of 16-pin lead	

SPECIFICATION		PDCS04-ULV	PDCS10-ULV	
	Temperature Range	4K~373K	10K~373K	
	Vibration of sample position	±100nm	±100nm	
	Limited temperature	4.2K	4.2K	
	Temperature fluctuation	±10mK	±10mK	
	Helium consumption	0	0	
	Sample position	Under the cryostat	Under the Cryostat	
2	Sample test	Through the observation window	Through the pbservation window	
	Number of sample lead	16pin(optional)	16 pin(optional)	
	Number of optical window	2(Can be increased)	2(Can be increased)	
	Shape of vacuum hood	Cylindrical(or customized)	Cylindrical(or customized)	

TYPICAL APPLICATIONS

Micro-photoluminescence
 Micro-Raman

Micro-spectroscopy

Quantum dots

Low vibration optical experiment

Magneto-optic Kerr

1.5K GM+JT Cryostat 《



This cryostal takes GM Cryocooler as its cold source and uses JT Throttling technology and Evacuation decompression technique. It can realize<1.5K ultra-low temperature and have a little helium consumption and short cooling down time features.

品	Quickly cool down to 1.5K
	Quickly sample changed
ATC	Optional superconducting magnet field
FEATURES	Low vibration
	Customized
	Application in optical/superconducting/cryogenic material

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CONFIGURATION		
Standard Configuration	Optional Configuration	
4K GM Cryocooler System	Vacuum System	
JT System	Control System	
Vacuum Chamber	Chiller	
Radiation-proof Screen	Interface	
16-pin Sample Lead	Number of optical windows	
Temp. Control System	and materials	
Vacuum Valve Block	Supporting Structure	
16-pin Sample Lead	Vacuum Pump	
Cooling Component, Sample Holder	Sample Holder	
Helium Circulation System, Liquid Helium Pool	1	

TYPICAL APPLICATIONS

Cryogenic optical test

Cryogenic materials property test



>> Cryostat - Optical Type

Using GM Cryocooler as cold resource to cool down the sample, The main components of the cryostat include GM Cryocooler, vacuum can, radiation shield and sample holder. By configuring different types of vacuum cover and related equipment, the cooling requirements of many samples for cryogenic test can be realized. At the same time, the cryostat of this type optical can cooperate with precision displacement platform to carry out three-dimensional high precision and large quantity of the whole structure. The positioning accuracy of the process can reach up to 0.01mm by measuring the location of different positions of the sample.



SPECIFICATION	Model type	PDCS04	PDCS10	PDCS77
	Temperature range	4-373K	8-373K	30-373K
	Temp Accuracy	±0.05K	±0.05K	±0.05K
	Vacuum degree	5×10 ⁻⁴ Pa	5×10 ⁻⁴ Pa	5×10⁻⁴ Pa

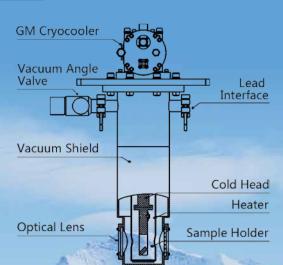
TYPICAL APPLICATIONS

Conductivity Holzer test

Ultraviolet / IR spectroscopic low temperature experiment
 Raman spectroscopy experiment electroluminescence
 photoluminescence

Neutron scattering neutron diffraction

Terahertz



>> CRYOPUMPS

PREVIEW

Cryopump, also known as cryogenic vacuum pump, which is pumped by cryogenic condensation and cryogenic adsorption. It is an oil free and high vacuum environment acquisition device.

Cryogenic pumps are suitable for environments requiring clean oil-free and fast pumping ultra-high vacuum circumstances, mainly used in applications such as sputtering coating equipment, evaporation coating equipment, ion implantation equipment, molecular beam epitaxy equipment, space simulation device, high energy physics research device, accelerator

FEATURES

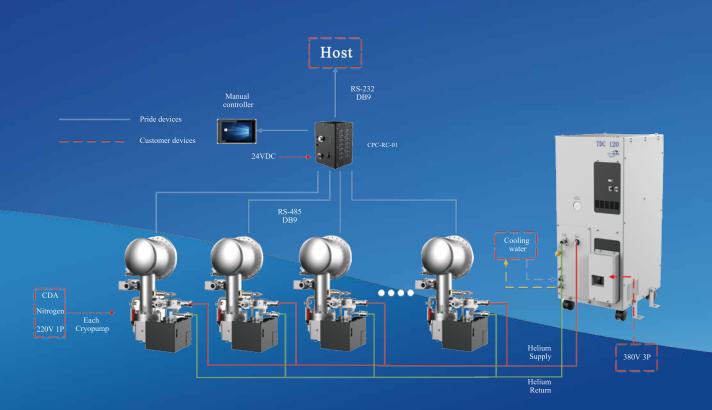
Oil-free and pollution-free, low-temperature cold plate is used to absorb gas to obtain vacuum. The gas pumping speed is high, and the exhausting speed is fast.

The operation cost is low, no liquid nitrogen is needed.

Simple operation and high performance.

High reliability, long using period.

Pls contact E-mail "cryosales@724pride.com" for Cryopump catalog.



>> Under R&D

>>> CPMS

The Cryogen free magnets Property Measurement System (CPMS) is composed of two main parts: a low-temperature superconducting strong magnetic field system and measurement components. Among them, the low-temperature superconducting strong magnetic field system includes a liquid helium free low-temperature system, a superconducting strong magnetic field system, and its measurement and control unit; The measurement components include measuring rods, measuring instruments, and measurement and control software, which can meet the measurement needs of multiple physical parameters such as magnetism, electricity, and heat.

Pls contact E-mail "cryosales@724pride.com" for CPMS catalog.



>> Dilution Refrigerator



The dilution refrigerator KDDR400 is working through a principle that helium-3 evaporates into the helium-4 by pulling heat from a nearby energy source: the refrigerator itself, to realize a cooling capacity at mK level.

The main components of dilution refrigerator are vacuum pump, precooling cryocooler, cold trap, heat exchanger, current limiter, still and mix chamber. The dilution refrigerator is distinguished to wet type and dry type according to the precooling type is using whether liquid helium or closed-loop cryocooler. Dilution refrigerator is mainly used in quantum computing and condensed matte physics fields.

Pls contact E-mail "cryosales@724pride.com" for Dilution Refrigerator catalog

Target Specifications:

Base Temperature: 10mk
Cool down Time: 2 Day

- Cooling Capacity: 400µW@100mK

Ultralow Vibration

Reference

Adopt Pride KDE418SA Cold head
Pride Vibration Deduction Liquefying Chamber
Precooling with 1K pot, self-made dilution unit
Heat switch for rapid cooling

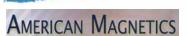
>> APPRECIATION TO PARTNERS



















































Mr. Solution























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中国科学院自动化研究所 INSTITUTE OF AUTOMATION CHINESE ACADEMY OF SCIENCES







Tel: 025-87173705

E-mail: cryosales@724pride.com

Add: No.32, Changqing Street, Jiangning District, Nanjing, Jiangsu

Province, China, 211106

Web: http://www.724pridecryogenics.com/