

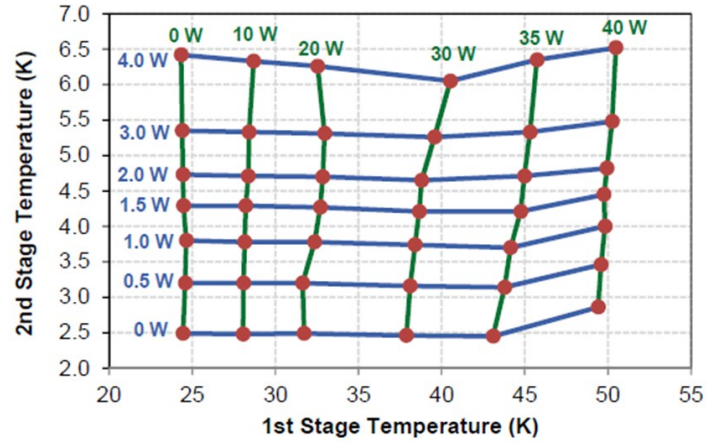
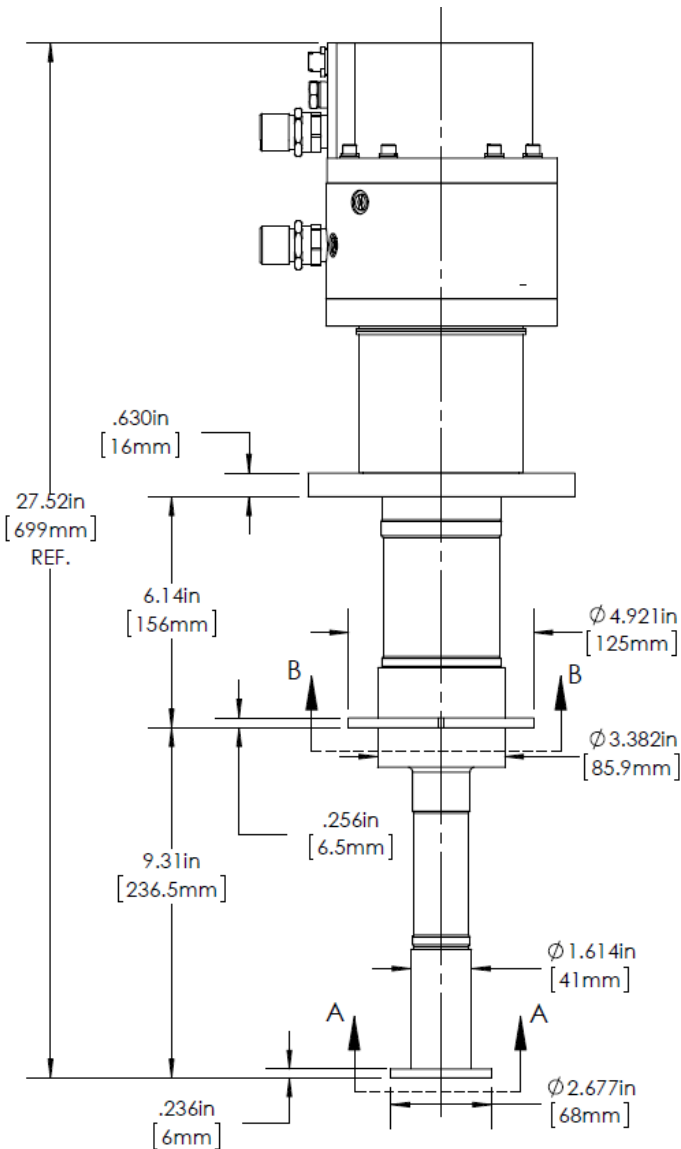


# DE-215 High Power Cryocooler

## Cryocooler Model DE-215S

- > 1.5 W @ 4.2 K
- > < 2.7 K Base Temperature
- > Pneumatically Driven GM Cryocooler
- > Axial Design for Minimal Vibrations
- > Universal Flanges for Drop-In Replacement

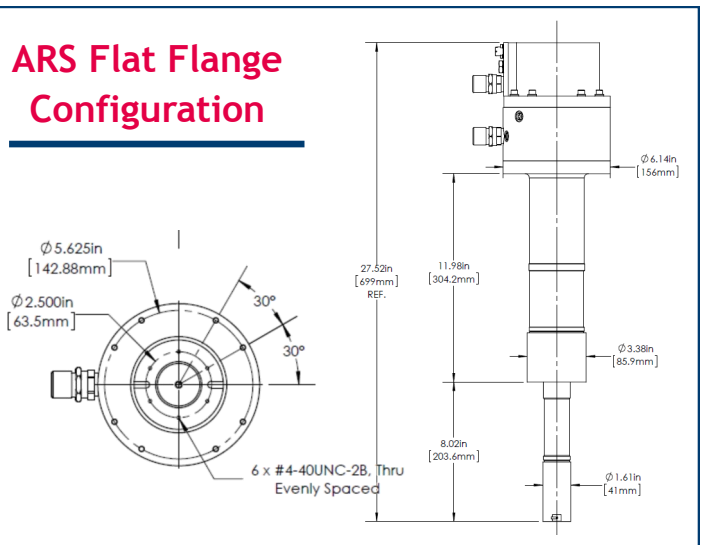
## Universal Flange Configuration



Note: (a) Cold head: RD220-002; Compressor: SN11-HC825; Date: 07/2014. (b) Capacity maps for reference only. All data taken @ 60 Hz

Cryocooler Model	DE-215SF
Base Temperature	< 2.70 K
Cooling Capacity: 2nd Stage 1st Stage	1.65 W @ 4.2 K 30 W @ 27 K
Cooldown Time to 4.2 K	< 65 min
Compressor Model	ARS-20
Power Consumption @ Steady State (60 Hz)	11.8 kW
Cooling Water Flow Rate	2.4 gal/min (T < 68° F, 40 psig supply)
Maintenance (Cold Head)	10,000 hours
Superflex Helium Hoses	20 ft

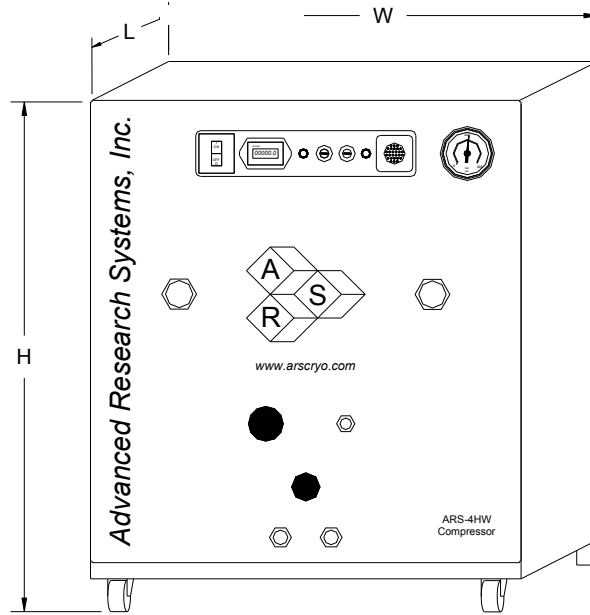
## ARS Flat Flange Configuration





# DE-215 High Power Cryocooler

## ARS-10HW Compressor



Compressor Model		ARS-10HW	
	Frequency	60 Hz, 3 Phase	50 Hz, 3 Phase
Standard Voltage	Min	208 V	190 V
	Max	230 V	210 V
Transformer Options	10%	380 V	440 V
	15%	415 V	480 V
Power Usage		7.7 kW	7.7 kW
Refrigerant Gas		99.999% Helium Gas, Pre-Charged	
Noise Level			
Ambient Temperature		5 - 40 C (40–104 F)	
Cooling Water	Consumption	5.7 L / min (1.5 Gal. / min)	
	Temperature	< 20 C (68 F)	
	Connection	1/2 in. Swagelok Fitting	
Dimensions:	L	483 mm (19 in)	
	W	533 mm (21 in)	
	H	617 mm (24.3 in)	
Weight		105 kg (230 lbs)	
Typical Maintenance Cycle		12,000 hours	
Water Recirculation Option		Not CoolPac Compatible	