SVT Cooling Requirements

Hybrids	
Operating T	-30C to RT
Cooling cap.	100W@-30C
Mass flow	>50g/s

FE boards	
Operating T	RT+-10C
Cooling cap.	100W@20C
Mass flow	>50g/s

Affinity P-series RC50222G1

- Water cooled: use Hall-B water
- Compatible with water-glycol
- -40C-RT
- 3kW@-30C
- 85psi@60g/s
- RS232 software interface

Budget & schedule:
$30k (budget is $X)

Affinity FAA-015D-DD01CA

Used in the test run!

- Water cooled: use Hall-B water
- Compatible with water-glycol
- +4-+30C
- 6kW
- RS232 software interface

Budget:
- Chiller $30k (budget is $29.8k)

Schedule:
- Apr. 1st: new chiller arrive
- May 1st: Passed basic op. test at SLAC [M. Oriunno]
- May 7th-Jun 7th: slow control program. and test at JLab [H. Egyian]
- Jul.-Aug. interlock tests [H. Egyian]

⇒Lead-time for chiller pushes schedule
⇒Critical to get chiller to JLab <X

Interlock signals from cooling system

Same as test run

Signal	Type	Signal	Type
Low level	software	Flow meter	hardware
Low/high pressure	software	Check valve	harware
Solenoid valve	hardware	Temperature	hardware