

e- RF module
(one cavity per n

Static 4.5 K heat per module or magnet (W)	30.0
Dynamic 4.5 K heat per module or magnet (W)	40.0
4.5 K liquid per pair wiggler current leads (g/s)	
Number of modules or magnets per string A	10
Number of modules or magnets per string B	
Number of modules or magnets per string C	8
Number of modules or magnets per string D	
Number of strings per ring	2
Number of modules or magnets per ring	18.0
Number of strings per cryoplant	1
Total 4.5 K static heat per cryoplant A-B (W)	300.0
Total 4.5 K dynamic heat per cryoplant A-B (W)	400.0
Total 4.5 K liquid per cryoplant A-B (g/s)	
Total 4.5 K static heat per cryoplant C-D (W)	240.0
Total 4.5 K dynamic heat per cryoplant C-D (W)	320.0
Total 4.5 K liquid per cryoplant C-D (g/s)	
Static 70 K heat per module or magnet (W)	50.0
Dynamic 70 K heat per module or magnet (W)	10.0
Total 70 K static heat per cryoplant A-B (W)	500.0
Total 70 K dynamic heat per cryoplant A-B (W)	100.0
Total 70 K static heat per cryoplant C-D (W)	400.0
Total 70 K dynamic heat per cryoplant C-D (W)	80.0

Notes: 2 cryoplants tota

e+ RF module nodule)	e- wiggler (2.5 meters)	e+ wiggler (2.5 meters)	Notes
30.0	5.0	5.0	650 MHz RF cavity heat loads from 4.5 K: e-mails from Mark Palmer a 40-80 K heat load is my guess
40.0	0.0	0.0	
	0.01	0.01	Wiggler magnet heat loads from Mark Palmer, personal communication and S. Guiducci DR System Area Status Videoconf
8	20	20	
	20	20	
10	20	20	
	20	20	
2	4	4	118 amps, independently powered, no conventional leads assumed here,
18.0	80.0	80.0	
1	2	2	
240.0	200.0	200.0	
320.0	0.0	0.0	
	0.4	0.4	
300.0	200.0	200.0	
400.0	0.0	0.0	
	0.4	0.4	
50.0	50.0	50.0	
10.0	0.0	0.0	
400.0	2000.0	2000.0	
80.0	0.0	0.0	
500.0	2000.0	2000.0	
100.0	0.0	0.0	

il for damping rings

n
and Andy Wolski, 15 Dec 06

ation

ference 4/4/06

wigglers
, but may be HTS