FIREX FireLab Preliminary Plan		weight	power	l, w, h					
rough tally of where stuff goes		lbs	AC-amps	inches					
UM-OPFTIR	stack	100	1		in stack				
UM PAXs	stack/IC	80	0.8	24, 19, 16	on counter				
BROWN/UNH collect/nox	stack	105	4.5	24, 12, 47	stacked				
BROWN/UNH MC/IC	stack	310	14	37, 29, 60	bigger than elevator, may not be easy to take apart				
H3O-CIMS	stack	360	8	42, 26, 45	bigger than elevator	r, may not b	e easy to take apart		
ACES	stack	210	4	26, 21, 40	_				
NOAA-AMS	stack	425	11	54, 28, 60	bigger than elevato	r, "easy" to	take apart		
Berkeley-filters	stack	50	10	12, 12, 30					
UCR-2D-GC		20		24, 24, 24					
NOAA/CU-I-CIMS	stack	360	25	42,24,52	115 lbs and 15 amps for pumps that could be placed remotely				
Aerodyne I-/NO3 CIMS	stack	307	13.16	17,24,33	26 amp surge issue I am asking about. Dims shown for largest unit of three				
PLATFORM TOTAL		2327	91.46			NOTES FO	DR NON-PLATFORM ACCESS		
						NOTE, VI	RTUALLY ANY INSTRUMENT CAN BE IN CL-LAB		
DAVIS CRD-PAS	PAM/IC	440	8	<mark>26, 48, 60</mark>		VIEWING	ROOM DOOR WIDTH IS 47"		
DAVIS SMPS	PAM/IC		2		stacked	WIND/CC	NTROL AREA BLOCKED BY PIPES 32" apart up to 42" high and then only 24"!		
DAVIS APS	PAM/IC		2		stacked	SEVERAL	GROUPS WANT TO CO-DEPLOY		
ARNOLD	CR/WT/PAM or CL floor	312	9	42, 21, 39					
aCRDPAS	WT/VR	500	15	54, 50, 50	а				
BBCES	WT/VR	275	10	60, 60, 14	a shared ir	nlet = a			
BrC-PILS	WT/VR	88	6	24, 24, 48	а				
KROLL PAM	WT/VR	80	5	48, 30, 64					
KROLL CAPS	WT/VR	25	0.5	24, 17, 9					
KROLL AMS	WT/VR	400	10	24, 48, 51					
LiNeph	WT/VR		10	20, 20, 36					
BC-Icomp (see appendix)	View Room or WT				see spreadsheet				
PiLS-ESI	View Room or WT	500	30	72, 32, 58	10 amps of 208!				
UNC filters		45	6	14, 9, 10	3 of them				
UNC MIST		120	12	35, 18, 6	2 of them				
UNC I-CIMS	Viewing Room?	525.8	38						
UNC-PiLS		70	11	30, 30, 30					
PNL-MOUDI	CL-floor	60	3	15, 15, 30	2 of them				
PNL-PiLS	CL-floor	120	2.5	17, 17, 19					
Ny	CL-floor	400	25	58, 32, 68	10 amps of 208!				
CSU-SMOG-ACS	CL-floor	1150	40	12' 12' 12'					
NOAA-GC-MS	WT/VR	600	15	46, 27, 67					
NOAA-IWAS	WT/VR		15	46, 27, 48					
TOTAL EVERYTHING		8037.8	357.46		20 amps of 208 (no	problem)	This doesn't include intercomparison, see next page		

FIREX Fire Lab Intercomparison									
Instrument	Measured Parameter	Sample flow rate (LPM)	Dimensions	Power (W)	Manufacturer	Source	Notes		
Quartz and QBT filters	elemental and organic carbon	10 (x 2)		500 (pump)		OSU	to be analyzed offline using Sunset OCEC analyzer at OSU		
PAX 870	light absorption (eBC) + light scattering	1	7 x 19 x 24	45	DMT	OSU			
PAX 405	light absorption (eBC) + light scattering	1	7 x 19 x 24	45	DMT	UMT			
Aethalometer (AE-31)	light attenuation (eBC)	3	11 x 17 x 13	25	Magee	NPS			
micro-Aeth	light attenuation (eBC)	0.15	1.5 x 2.6 x 4.6	20	AethLabs	CSU			
Berkeley SS	light attenuation (eBC)	2	3 x 5 x 5	10	N/A	LBNL			
TAP	light attenuation (eBC)	2	6.3 x 4.3 x 4.5	36	BMI	lease from Brechtel			
SP2 #1	refractory black carbon	0.12	10.25 x 19 x 24	30	DMT	NOAA-CSD			
SP2 #2	refractory black carbon	0.12	10.25 x 19 x 24	30	DMT	NOAA-CSD			
CAPS 660	light extinction	0.85	9 x 19 x 24	50	ARI	HS			
SMPS	aerosol size distributions	0.3		335	TSI	OSU			
POPS	aerosol optical size distributions	0.2	10 x 12 x 5	7	HS	HS			
AAC	Aerodynamic Aerosol Classifier	1.5*	22 x 19 x 19	1000	Cambustion	Cambustion	will sample in series so don't add to total flow		
Teledyne-API T200	Carbon monoxide	1		uncertain		OSU			
LiCor 840	Carbon dioxide and water vapor	1		14		OSU			
CAPS-SSA	light extinction + light scattering				Aerodyne	Aerodyne	We hope to incorporate some of these Aerodyne instruments in our work		
SP-AMS	refractory black carbon and coatings				Aerodyne	Aerodyne	Presumably, these are accounted for in the Aerodyne response.		
rSMPS	refractory aerosol size distributions	0.3			TSI	Aerodyne			
		32.74							