X-3 Date					
Data sheet for Spencer	Lab	_			
Steam Supply to Buildi	ng (digital gage	e) Calc		Mbtu/hr lbm/hr	M= 10 ⁶ (Btu/hr/h _{fg}
Steam Supply splits:			ılates to term abs, halls, int	•	•
(1) U-tube	heat exchange			·	
	Water out	Γ	F	ן	
	Water retrn	-	F	1	
	Pump flow	180 gpm		lbm/hr	
	Water ΔT	<u> </u>	F]	
	Q= m c _p ΔT		Btu/hr Mbtu/hr]	
(2) Balanc	e of steam sup	plied heats o	outside air		
			near Academ	ny St entrand	ce)
An energy	conservation	metric is Btu	/hr/ft²		
	Spencer occ	cupied space	(3 stories + k	pasement):	
	Total square	e ft =	58,000)	
	Btu/hr/ft ²		Btu/ft^2 or		kw/m^2
(This metr	ric obviously de	epends on co	onditions. Sm	aller is bette	er)