	FLOW	
1 gpm	= 0.134 cu. ft. per min	
	= 500 lb.per hr. x sp. gr.	
500 lb. Per hr.	= 1 gpm / sp. gr.	
1 cu. Ft. per min. (cfm)	= 448.8 gal. per hr. (gph)	
POWER		
I Btu per hr.	= 0.293 watt	
	= 12.96 ft. lb. per min.	
	= 0.00039 hp	
1 ton refrigeration (U.S.)	= 288,000 Btu per 24 hr.	
	= 12,000 Btu per hr.	
	= 200 Btu per min.	
	= 83.33 lb. ice melted per	
	24 hr. from and at 32°F.	
	= 2,000 lb. ice melted per	
	24 hr. from and at 32°F	
1 hp	= 550 ft. lb. per sec.	
	= 746 watt	
	= 2,545 Btu per hr.	
1 boiler hp	= 33,480 Btu per hr.	
	= 34.5 lb. water evap. per	
	hr. from and at 212°F	
	= 9.8 kw.	
1 kw.	= 3,413 Btu per hr.	
	MASS	
1 lb. (avoir.)	= 16 oz. (avoir.)	
	= 7,000 grain	
1 ton (short)	= 2,000 lb.	
1 ton (long)	= 2,240 lb.	
PRESSURE		
1 lb. Per sq. in.	= 3.13 ft. water at 60°F	
	= 2.04 in. hg at 60°F	
1 ft. water at 60°F	= .433 lb. per sq. in.	
	= .884 in. hg at 60°F	
I in. Hg at 60°F	= .49 lb. per sq. in.	
	= 1.13 ft. water at 60°F	
I lb. Per sq. in.	= lb. per sq. in gauge (psig)	
Absolute (psia)	= 14.7	

°C = (°F-32) x 5/9			
VOLUME	VOLUME		
I gal. (U.S.) = 128 fl. oz. (U.S.)			
= 231 cu. in.			
= .833 gal. (Brit.)			
1 cu. ft. = 7.48 gal. (U.S.)			
WEIGHT OF WATER			
1 cu. ft. at 50°F. = 62.41 lb.			
I gal. at 50°F. = 8.34 lb.			
1 cu. ft. of ice = 57.2 lb.			
1 cu. ft. at 39.2°F. = 62.43 lb.			
Note: Water is at its great	est density		
at 39.2°F			
WEIGHT OF LIQUID			
1 gal. (U.S.) = 8.34 lb. x sp. gr.			
I cu. ft. = 62.4 lb. x sp. gr.			
1 lb. = .12 U.S. gal. / sp. gr.			
= .016 cu. ft. / sp. gr.			
WORK			
1 Btu (mean) = 778 ft. lb.			
= .293 watt hr.			
= 1/180 of heat required to	change		
temp of 1 lb. water from 3	32°F to		
212°F			
1 hp-hr = 2545 Btu (mean)			
= .746 kwhr			
1 Kwhr = 3413 Btu (mean)			
= 1.34 hp-hr			