

Table 10 : Energy Saving**Steam and Fluid loss by leakage**

Diameter of Hole mm	Steam-kg/hr		Water-Litre/hr	
	7.0 bar	20.0 bar	1.5 bar	7.0 bar
1.5	5.5	13	81	182
3	23	54	327	900
5	63	148	900	2025
6.5	108	252	1527	3436

Compressed air – loss by leakage

Gauge pressure bar	Discharge of free air L/s for various orifice					
	0.5 mm	1 mm	2 mm	3 mm	5 mm	10 mm
0.5	0.06	0.22	0.92	2.1	5.7	22.8
1	0.08	0.33	1.33	3	8.4	33.6
2.5	0.14	0.58	2.33	5.5	14.6	58.6
5	0.25	0.97	3.92	8.8	24.4	97.5
7	0.33	1.31	5.19	11.6	32.5	129

FUEL CONSUMPTION FOR STEAM

1 kg of coal Product 8 kgs of steam

1 Litre of oil Product 14 kgs of steam

1 Therm of gas Product 26 kgs of steam

(1 Therm = 105.5 KJ (100,000 BTU))

1 kg of wood = 4 kgs of steam