Table 12.9 – ***EuroFirefighter 2*** Explains – 'Firesys' required

THE FIRE	
Q_{max} PHRR (MW) also (MJ/s)	
PHRR at 50% Comb Efficient k_F	
Duration of Steady State Fire	
Mass Loss (kg) at Steady State	
Maximum rate of burn kg/s	
Maximum rate of burn kg/min	
Energy Release at Q_{max} MJ	
Energy Release at Q_{max} MJ/s	
Energy Release at Q_{max} MJ/min	
Energy Release at 50% Comb Efficient k_F	
THE WATER	
ADEQUATE WATER **(Barnett) 0.38 L/s/MW** **(Grimwood) 0.40 L/s/MW**	
RASBASH/GRIMWOOD ***Note: According to several studies, extinguishing efficiency (Fig.12.8) is estimated to be between - 32-35% directly at the fuel base and 15-18% when water is applied into the flaming reaction zone.*** ***The remaining 50% of water applied is generally seen to 'run-off' with minor cooling effects.***	= = = = = = =
THE HEAT EXTRACTION	
Reaction Zone (RZ) @ 50% Combustion efficiency Gaseous Phase	
Water reaching RZ	
Water need in Suppression of RZ	