

Load Balance

LINE	Load
Line 1	2 x 3kW Convactor heaters 2 x 32 A Radial sockets circuits 1 x 3kW Imersion heater 1 x 1.5kW Discharge Lights
Total (kW)	$3+3+7.36+7.36+3+1.5=25.22\text{kW}+(3\text{Ph CCT's})$
Line 2	2 x 3kW Convactor heaters 2 x 32 A Radial sockets circuits 1 x 3kW Imersion heater 1 x 1.5kW Discharge Lights
Total (kW)	$3+3+7.36+7.36+3+1.5=25.22\text{kW}+(3\text{Ph CCT's})$
Line 3	2 x 3kW Convactor heaters 1 x 32 A Radial sockets circuit 1 x 6 kW Cooker 1 x 2 kW SOD, ext Lights 4 x 1 kW Oil filled radiators
Total (kW)	$3+3+7.36+6+2+4=25.36\text{kW}+(3\text{Ph CCT's})$

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 100A, 4 POLE main switch disconnector to be used, as max. demand with no diversity is: $359.59/3 = 119.86\text{ A}$

BS 88-2, 100A Main fuse to be used as max demand after diversity is: $268.34/3 = 89.45\text{ A}$