

Suppliers of air conditioning units

DAIKIN TOSHIBA FUJITSU
HEAT GAIN CALCULATION GUIDE

ACSALESdirect

www.acsalesdirect.co.uk
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Lighting	No.	Watts per fitting	Watts Total	x Factor	= Watts	TOTALS
Fluorescent Tubes				1.2		
Incandescent Bulbs				1		
Occupancy				146		
Fresh Air		12 litres/s per person	total fresh air	x 13.8		
Vertical Glazing	No.	Area sq m	Total Area	X	= Watts	
N		X		110		
NE		X		210		
E		X		400		
SE		X		440		
S		X		460		
SW		X		460		
W		X		440		
NW		X		320		
Roof + Ceiling		X		37		
Pitched Roof		X				
Roof Light		X		530		
External Wall		X		9		
Others						
					TOTAL	

Please Note :- This Heat Gain Guidance Sheet is intended for guidance purposes only. We would recommend speaking to one of our experienced design engineers for advice on unit selection cooling capacities.

Factor Guide

Design Conditions Internal 21degCdb
External 30degCdb
Fluorescent Tubes 4' = 40watt 5' = 65watt
6' = 85watt / 8' = 125watt

Pitched Roof Glazing Factors
for N = 330, NE = 430 E = 540, SE = 580,
S = 590, SW = 590, W = 540, NW = 440
Pitched Roof Fabric Factors
for N = 30 NE = 30 E = 40 SE = 40 S = 50
SW = 50 W = 40 NW = 40

Vertical Double glazing, shading or extn blinds x by 0.6
Infiltration or Introduction (l/s) = $\frac{ACR \times \text{Room Volume}}{3600}$

Computer Screen = 100 watts
Personal Computer = 250 watts
Printers, Fax Machines = 50 watts
Photo Copiers = 1000 to 3500 watts