

Building services

The standard values listed below are minimum values for efficiencies and maximum values for SFPs. Refer to the Non-Domestic Building Services Compliance Guide for details.

Whole building lighting automatic monitoring & targeting with alarms for out-of-range values	YES
Whole building electric power factor achieved by power factor correction	>0.95

1- UCL Be lean: AHU (FCUs)+rads (L9)

	Heating efficiency	Cooling efficiency	Radiant efficiency	SFP [W/(l/s)]	HR efficiency
This system	0.91	4.6	0	1.8	0.8
Standard value	0.91*	2.55	N/A	1.6^	0.65
Automatic monitoring & targeting with alarms for out-of-range values for this HVAC system					YES
* Standard shown is for gas single boiler systems <=2 MW output. For single boiler systems >2 MW or multi-boiler systems, (overall) limiting efficiency is 0.86. For any individual boiler in a multi-boiler system, limiting efficiency is 0.82.					
^ Limiting SFP may be extended by the amounts specified in the Non-Domestic Building Services Compliance Guide if the system includes additional components as listed in the Guide.					

2- UCL Be lean: L9 Meeting Room/Quiet room

	Heating efficiency	Cooling efficiency	Radiant efficiency	SFP [W/(l/s)]	HR efficiency
This system	0.91	4.62	0	1.8	0.8
Standard value	0.91*	2.55	N/A	1.6^	0.65
Automatic monitoring & targeting with alarms for out-of-range values for this HVAC system					YES
* Standard shown is for gas single boiler systems <=2 MW output. For single boiler systems >2 MW or multi-boiler systems, (overall) limiting efficiency is 0.86. For any individual boiler in a multi-boiler system, limiting efficiency is 0.82.					
^ Limiting SFP may be extended by the amounts specified in the Non-Domestic Building Services Compliance Guide if the system includes additional components as listed in the Guide.					

3- UCL Be lean: L5 VAV (Kitchen)

	Heating efficiency	Cooling efficiency	Radiant efficiency	SFP [W/(l/s)]	HR efficiency
This system	0.91	4.6	0	0.4	0.8
Standard value	0.91*	2.55	N/A	1.1^	0.65
Automatic monitoring & targeting with alarms for out-of-range values for this HVAC system					YES
* Standard shown is for gas single boiler systems <=2 MW output. For single boiler systems >2 MW or multi-boiler systems, (overall) limiting efficiency is 0.86. For any individual boiler in a multi-boiler system, limiting efficiency is 0.82.					
^ Limiting SFP may be extended by the amounts specified in the Non-Domestic Building Services Compliance Guide if the system includes additional components as listed in the Guide.					

4- UCL Be lean: L5 VAV (office)

	Heating efficiency	Cooling efficiency	Radiant efficiency	SFP [W/(l/s)]	HR efficiency
This system	0.91	4.6	0	1.8	0.8
Standard value	0.91*	2.55	N/A	1.6^	0.65
Automatic monitoring & targeting with alarms for out-of-range values for this HVAC system					YES
* Standard shown is for gas single boiler systems <=2 MW output. For single boiler systems >2 MW or multi-boiler systems, (overall) limiting efficiency is 0.86. For any individual boiler in a multi-boiler system, limiting efficiency is 0.82.					
^ Limiting SFP may be extended by the amounts specified in the Non-Domestic Building Services Compliance Guide if the system includes additional components as listed in the Guide.					

5- UCL Be lean: AHU (FCUs)+rads (L9 teapoint)

	Heating efficiency	Cooling efficiency	Radiant efficiency	SFP [W/(l/s)]	HR efficiency
This system	0.91	4.6	0	1.8	0.8
Standard value	0.91*	2.55	N/A	1.6^	0.65
Automatic monitoring & targeting with alarms for out-of-range values for this HVAC system					YES
* Standard shown is for gas single boiler systems <=2 MW output. For single boiler systems >2 MW or multi-boiler systems, (overall) limiting efficiency is 0.86. For any individual boiler in a multi-boiler system, limiting efficiency is 0.82.					
^ Limiting SFP may be extended by the amounts specified in the Non-Domestic Building Services Compliance Guide if the system includes additional components as listed in the Guide.					

6- UCL Be lean: DX cooling\_comms room

	Heating efficiency	Cooling efficiency	Radiant efficiency	SFP [W/(l/s)]	HR efficiency
This system	0.91	3.87	0	0	0.8
Standard value	0.91*	2.6	N/A	N/A	0.65
Automatic monitoring & targeting with alarms for out-of-range values for this HVAC system					NO
* Standard shown is for gas single boiler systems <=2 MW output. For single boiler systems >2 MW or multi-boiler systems, (overall) limiting efficiency is 0.86. For any individual boiler in a multi-boiler system, limiting efficiency is 0.82.					

7- UCL Be lean: CAV (Locker)

	Heating efficiency	Cooling efficiency	Radiant efficiency	SFP [W/(l/s)]	HR efficiency
This system	0.91	4.4	0	1.8	0.8
Standard value	0.91*	2.55	N/A	1.6^	0.65
Automatic monitoring & targeting with alarms for out-of-range values for this HVAC system					YES
* Standard shown is for gas single boiler systems <=2 MW output. For single boiler systems >2 MW or multi-boiler systems, (overall) limiting efficiency is 0.86. For any individual boiler in a multi-boiler system, limiting efficiency is 0.82.					
^ Limiting SFP may be extended by the amounts specified in the Non-Domestic Building Services Compliance Guide if the system includes additional components as listed in the Guide.					

8- UCL Be lean: AHU (FCUs)+rads (L5 teaching space)

	Heating efficiency	Cooling efficiency	Radiant efficiency	SFP [W/(l/s)]	HR efficiency
This system	0.91	3.6	0	1.8	0.8
Standard value	0.91*	2.55	N/A	1.6^	0.65
Automatic monitoring & targeting with alarms for out-of-range values for this HVAC system					YES
* Standard shown is for gas single boiler systems <=2 MW output. For single boiler systems >2 MW or multi-boiler systems, (overall) limiting efficiency is 0.86. For any individual boiler in a multi-boiler system, limiting efficiency is 0.82.					
^ Limiting SFP may be extended by the amounts specified in the Non-Domestic Building Services Compliance Guide if the system includes additional components as listed in the Guide.					

1- UCL Be lean: DHW (toilet)

	Water heating efficiency	Storage loss factor [kWh/litre per day]
This building	0.91	0.005
Standard value	0.9*	N/A
* Standard shown is for gas boilers >30 kW output. For boilers <=30 kW output, limiting efficiency is 0.73.		

2- UCL Be lean: DHW (teapoint)

	Water heating efficiency	Storage loss factor [kWh/litre per day]
This building	0.91	-
Standard value	0.9*	N/A
* Standard shown is for gas boilers >30 kW output. For boilers <=30 kW output, limiting efficiency is 0.73.		

Local mechanical ventilation, exhaust, and terminal units

ID	System type in Non-domestic Building Services Compliance Guide
A	Local supply or extract ventilation units serving a single area
B	Zonal supply system where the fan is remote from the zone
C	Zonal extract system where the fan is remote from the zone
D	Zonal supply and extract ventilation units serving a single room or zone with heating and heat recovery
E	Local supply and extract ventilation system serving a single area with heating and heat recovery
F	Other local ventilation units
G	Fan-assisted terminal VAV unit
H	Fan coil units
I	Zonal extract system where the fan is remote from the zone with grease filter



Zone name	SFP [W/(l/s)]									HR efficiency	
ID of system type	A	B	C	D	E	F	G	H	I		
Standard value	0.3	1.1	0.5	1.9	1.6	0.5	1.1	0.5	1	Zone	Standard
L9_ZC_CO_E_02	-	-	-	-	-	-	-	0.2	-	-	N/A
L9_ZC_CO_E_03	-	-	-	-	-	-	-	0.2	-	-	N/A
L9_ZC_CO_E_04	-	-	-	-	-	-	-	0.2	-	-	N/A
L9_ZC_CO_E_05	-	-	-	-	-	-	-	0.2	-	-	N/A
L9_ZC_CO_E_07	-	-	-	-	-	-	-	0.2	-	-	N/A
L9_ZC_CO_E_08	-	-	-	-	-	-	-	0.2	-	-	N/A
L9_ZC_CO_E_09	-	-	-	-	-	-	-	0.2	-	-	N/A
L9_ZC_CO_E_10	-	-	-	-	-	-	-	0.2	-	-	N/A
L9_ZC_CO_E_11	-	-	-	-	-	-	-	0.2	-	-	N/A
L9_ZC_CO_E_12	-	-	-	-	-	-	-	0.2	-	-	N/A
L9_ZC_CO_E_13	-	-	-	-	-	-	-	0.2	-	-	N/A
L9_ZC_CO_E_14	-	-	-	-	-	-	-	0.2	-	-	N/A
L9_ZC_CO_E_15	-	-	-	-	-	-	-	0.2	-	-	N/A
L9_ZC_CO_E_01	-	-	-	-	-	-	-	0.2	-	-	N/A
L9_ZC_WS_W_02	-	-	-	-	-	-	-	0.2	-	-	N/A
L9_ZC_WS_W_03	-	-	-	-	-	-	-	0.2	-	-	N/A
L5_ZC_Kitchen	-	-	-	-	-	-	-	-	0.4	-	N/A
L9_ZC_WS_W_04	-	-	-	-	-	-	-	0.2	-	-	N/A
L9_ZC_CO_E_06	-	-	-	-	-	-	-	0.2	-	-	N/A
L9_ZC_WS_W_01	-	-	-	-	-	-	-	0.2	-	-	N/A
L9_ZC_Tea_W_01	-	-	-	-	-	-	-	0.2	-	-	N/A
L9_ZC_Comms_W_01	-	-	-	0.8	-	-	-	-	-	-	N/A
L5_ZC_TS_E_TRep_2	-	-	-	-	-	-	-	0.2	-	-	N/A
L5_ZC_TS_E_TRep_1	-	-	-	-	-	-	-	0.2	-	-	N/A
L9_ZC_CO_E_16	-	-	-	-	-	-	-	0.2	-	-	N/A

General lighting and display lighting		Luminous efficacy [lm/W]		
Zone name		Luminaire	Lamp	Display lamp
Standard value		60	60	22
L5_ZC_TS_E_Store		90	-	-
L9_ZC_CO_E_02		100	-	-
L9_ZC_CO_E_03		100	-	-
L9_ZC_CO_E_04		100	-	-
L9_ZC_CO_E_05		100	-	-
L9_ZC_CO_E_07		100	-	-
L9_ZC_CO_E_08		100	-	-
L9_ZC_CO_E_09		100	-	-
L9_ZC_CO_E_10		100	-	-
L9_ZC_CO_E_11		100	-	-
L9_ZC_CO_E_12		100	-	-
L9_ZC_CO_E_13		100	-	-
L9_ZC_CO_E_14		100	-	-
L9_ZC_CO_E_15		100	-	-