

Heat Emitter Schedule

Project: UoW - Technium 2
Document no. UW3396-GED-T2-ZZ-SH-M-0002
Date: 20/03/2026
Heating Plant: ASHP
Issue: P01
Issue Notes:



Safety Factor: 20%					Design MWT 50.0 K								Radiators										Stelrad
Heat Loss					Existing Heat Emitters								New Heat Emitters										
Room Ref. No.	Rad Ref.	Room Design Temp	Calculated Room Heat Loss [W]	Room Heat Loss With Safety Factor [W]	Existing Heat Emitter Type	Length [mm]	Height [mm]	Pipe Connections (Radiators Only)	Low Surface Temperature	Heat Output @ dT50K [W]	Heat Output @ Design dT [W]	Total Room Heat Output @ Design dT [W]	New Heat Emitter Type	New Length [mm] or Product Code	New Height [mm]	Pipe Connections (Radiators Only)	Low Surface Temperature	New Heat Output @ dT50K [W]	New Heat Output @ Design dT [W]	Heat emitter Status	New Total Room Heat Output @ Design dT [W]		
GF NW stairwell	GF/R01	19°C	3,790	4,548	2 Column	2200	450	BOE	No	2,624	1,389	1389	2 Column	33	2400	600	BOE	No	5505	2,915	Replace	2915	
GF central corridor	GF/R02	19°C	3,040	3,648		11	2000	530	BOE	No	1,526	808		808	22	2000	600	BOE	No	3327	1,762	Replace	1762
GF WC corridor	GF/R03	19°C	1,150	1,380		11	2000	530	BOE	No	1,526	808		808	22	2000	600	BOE	No	3327	1,762	Remain	1762
GF reception	GF/R04	19°C	4,800	5,760	2 Column	400	1800	BOE	No	1,089	576	1864	2 Column	400	1800	1800	BOE	No	1045	553	Remain	3536	
GF reception	GF/R05	19°C				400	1800	BOE	No	1,089	576			400	1800	1800	BOE	No	1045	553	Remain		
GF reception	GF/R06	19°C				Finned Tube	2500	140	BOE	No	1,342	711			33	2000	600	BOE	No	4587	2,429	Replace	
GF M WC	GF/R07	19°C	200	240		11	600	500	BOE	No	432	229	229	21	500	450	BOE	No	507	268	Replace	268	
GF F WC	GF/R08	19°C	190	228		11	600	500	BOE	No	432	229	229				BOE	No		229	Remain	229	
GF reception office	GF/R09	19°C	210	252		11	450	500	BOE	No	324	172	172	21	500	450	BOE	No	507	268	Replace	268	
1F NW stairwell	GF/R10	19°C	1,090	1,308		22	1450	700	BOE	No	2,690	1,425	1425				BOE	No		1,425	Remain	1425	
1F NW corridor	GF/R11	19°C	2,070	2,484		11	2000	530	BOE	No	1,526	808	1616		22	1600	600	BOE	No	2659	1,408	Replace	2640
1F NW corridor	GF/R12	19°C				11	2000	530	BOE	No	1,526	808			22	1400	600	BOE	No	2327	1,232	Replace	
1F Centre corridor	GF/R13	19°C	3,360	4,032		11	2000	530	BOE	No	1,526	808	1616	22	1800	600	BOE	No	2992	1,584	Replace	3169	
1F Centre corridor	GF/R14	19°C				11	2000	530	BOE	No	1,526	808		22	1800	600	BOE	No	2992	1,584	Replace		
1F M WC	GF/R15	19°C	120	144		11	600	500	BOE	No	432	229	229				BOE	No		229	Remain	229	
1F F WC	GF/R16	19°C	120	144		11	600	500	BOE	No	432	229	229				BOE	No		229	Remain	229	
1F kitchen	GF/R17	19°C	140	168		11	450	500	BOE	No	324	172	172					BOE	No		172	Remain	172
1F SW stairwell	GF/R18	19°C	1,620	1,944		22	2000	700	BOE	No	3,711	1,965	1965					BOE	No		1,965	Remain	1965
2F NW stairwell	GF/R19	19°C	1,280	1,536		22	1450	700	BOE	No	2,690	1,425	1425	22	1600	700	BOE	No	3012	1,595	Replace	1595	
2F NW corridor	GF/R20	19°C	2,820	3,384		11	2000	530	BOE	No	1,526	808	1616	22	2000	600	BOE	No	3327	1,762	Replace	3524	
2F NW corridor	GF/R21	19°C				11	2000	530	BOE	No	1,526	808		22	2000	600	BOE	No	3327	1,762	Replace		
2F Centre corridor	GF/R22	19°C	4,420	5,304		11	2000	530	BOE	No	1,526	808	1616	22	1800	600	BOE	No	2992	1,584	Remain	3169	
2F Centre corridor	GF/R23	19°C				11	2000	530	BOE	No	1,526	808		22	1800	600	BOE	No	2992	1,584	Remain		
2F M WC	GF/R24	19°C	210	252		11	600	500	BOE	No	432	229	229	21	600	450	BOE	No	608	322	Replace	322	
2F F WC	GF/R25	19°C	200	240		11	600	500	BOE	No	432	229	229	21	600	450	BOE	No	608	322	Replace	322	
2F kitchen	GF/R26	19°C	150	180		11	450	500	BOE	No	324	172	172	21	500	450	BOE	No	507	268	Replace	268	
2F SW stairwell	GF/R27	19°C	1,650	1,980		22	1200	450	BOE	No	1,431	758	2723				BOE	No		758	Remain	2723	
2F SW stairwell	GF/R28	19°C				22	2000	700	BOE	No	3,711	1,965					BOE	No		1,965	Remain		
3F SW stairwell	GF/R29	19°C	2,250	2,700		22	2000	700	BOE	No	3,711	1,965	1965		33	2000	700	BOE	No	5207	2,757	Replace	2757
3F office	GF/R30	19°C	1,900	2,280		22	1300	530	BOE	No	1,826	967	967		33	2000	600	BOE	No	4587	2,429	Replace	2429

Notes

Radiators in communal areas have been sized to match existing radiator output at new new design dT
Existing radiator nominal outputs have been taken from typical values for each radiator type. These values are indicative and may vary from actual heat output.
Radiators highlighted in grey are to be replaced/added.
Total heat output* in orange texts suggest that the total heat output for all existing radiators in the room is lower than the room heat loss inc. safety factor.
Total heat output* in red texts suggest that the total heat output for all existing radiators in the room is lower than the room heat loss exc. safety factor.
Proposed radiators are Stelrad
All radiators to be rebalanced following commissioning
All radiators to have TRVs added if not already in place

Key: R - Radiator
FC - Fan Convactor
FCU - Fan Coil Unit
UH - Unit Heater