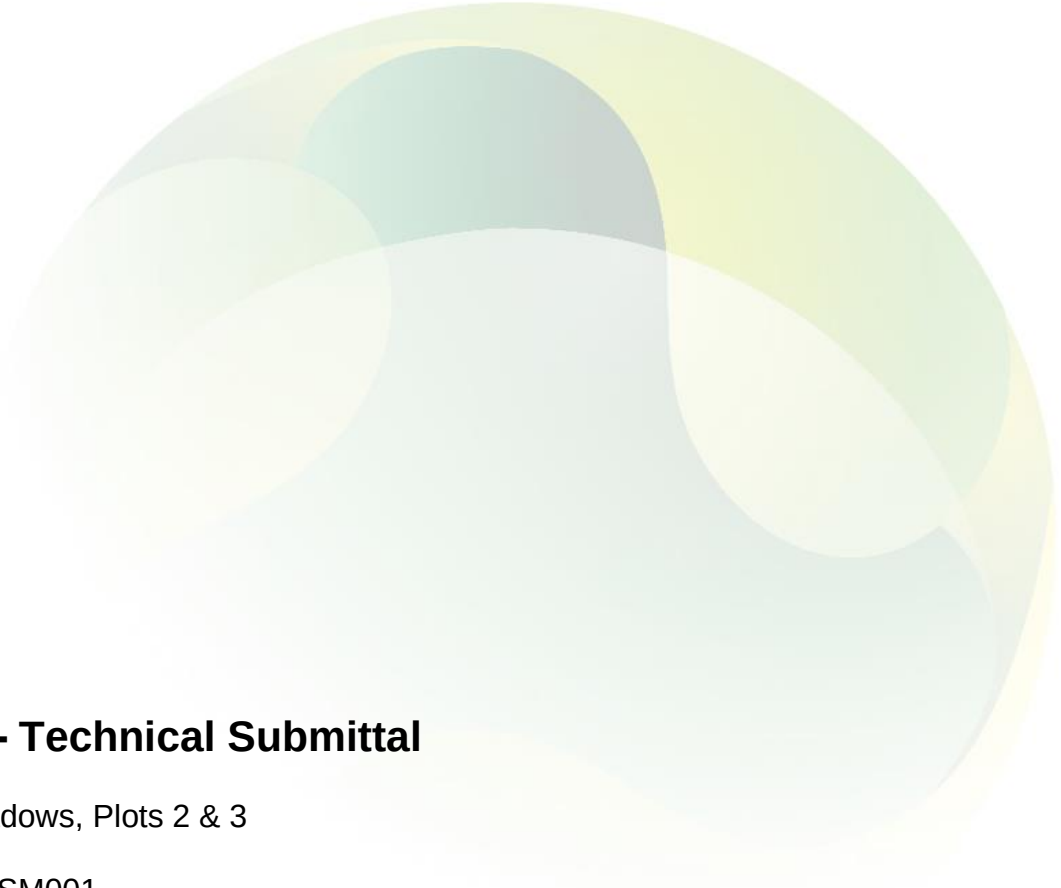




Air Conditioning – Technical Submittal

Project: Angel Meadows, Plots 2 & 3
Project No: MC1120
TSM No: MC1120/TSM001
Revision: G
Date: 16th July 2021

Revision Notes:

- 1) Apartment Heat Gain Calculations updated;
- 2) Occupancy levels in bedrooms increased to 2 per;
- 3) Lounge occupancy increased to sum of occupants;
- 4) Lighting equipment gains changed to be contributing all day, every day;
- 5) Correct infiltration rate now used on plot 3

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Air Conditioning - Technical Submittal

Project Angel Meadows, Plots 2 & 3
Project No. MC1120
Tech Submittal No. MC1120/TSM001
Revision G
Date 16/07/2021



Indoor Unit Schedule

Plot	Apt Type	Apt No.2	Level	Ref.	Room	Manufacturer	Model	Description	Req. Air Vol (l/s)	Min Air Vol (l/s)	Max Air Vol (l/s)	Req. Cooling (KW)	Cooling Capacity (KW)	Excess Cooling (KW)	Req. Heating (KW)	Heating Capacity (KW)	Excess Heating (KW)	Cooling Sound Pressure Level (dBA) (Min-Max)	Heating Sound Pressure Level (dBA) (Min-Max)	Pipe Run (m)	Weight (kg)	Width (mm)	Depth (mm)	Height (mm)
2	1A	19.08	19	FCU/01	Bedroom	TOSHIBA	RAS-M10U2DVG-E	Ducted Fan Coil Unit	106	106	158	1.2	2.7	1.5	1.1	3.6	2.5	27 - 35	27 - 35	27.3	16.0	700	450	210
2	1A	19.08	19	FCU/02	Lounge	TOSHIBA	RAS-M10U2DVG-E	Ducted Fan Coil Unit	160	106	158	1.8	2.7	0.9	0.7	3.6	2.9	27 - 35	27 - 35	27.3	16.0	700	450	210
2	1C	19.03	19	FCU/01	Bedroom	TOSHIBA	RAS-M07U2DVG-E	Ducted Fan Coil Unit	89	106	158	1.0	2.0	1.0	0.9	2.7	1.8	27 - 35	27 - 35	27.3	16.0	700	450	210
2	1C	19.03	19	FCU/02	Lounge	TOSHIBA	RAS-M10U2DVG-E	Ducted Fan Coil Unit	130	106	158	1.5	2.7	1.2	0.6	4.0	3.4	27 - 35	27 - 35	27.3	16.0	700	450	210
2	2A	19.09	19	FCU/01	Bedroom 1	TOSHIBA	MMD-AP0094SPH-E	Ducted Fan Coil Unit	63	112	150	0.8	2.5	1.7	0.8	2.2	1.4	24 - 28	24 - 28	28.8	22.0	845	645	210
2	2A	19.09	19	FCU/02	Bedroom 2	TOSHIBA	MMD-AP0094SPH-E	Ducted Fan Coil Unit	62	112	150	0.8	2.5	1.7	0.5	2.2	1.7	24 - 28	24 - 28	28.8	22.0	845	645	210
2	2A	19.09	19	FCU/03	Lounge	TOSHIBA	MMD-AP0124SPH-E	Ducted Fan Coil Unit	112	125	167	1.5	3.3	1.8	0.5	2.7	2.2	25 - 29	25 - 29	28.8	23.0	845	645	210
2	2B	19.04	19	FCU/01	Bedroom 1	TOSHIBA	MMD-AP0094SPH-E	Ducted Fan Coil Unit	50	112	150	0.7	2.5	1.8	0.8	2.2	1.4	24 - 28	24 - 28	27.3	22.0	845	645	210
2	2B	19.04	19	FCU/02	Bedroom 2	TOSHIBA	MMD-AP0094SPH-E	Ducted Fan Coil Unit	51	112	150	0.7	2.5	1.8	0.5	2.2	1.7	24 - 28	24 - 28	27.3	22.0	845	645	210
2	2B	19.04	19	FCU/03	Lounge	TOSHIBA	MMD-AP0124SPH-E	Ducted Fan Coil Unit	88	125	167	1.3	3.3	2.0	0.5	2.7	2.2	25 - 29	25 - 29	27.3	23.0	845	645	210
2	2C	19.01	19	FCU/01	Bedroom 1	TOSHIBA	RAS-M07U2DVG-E	Ducted Fan Coil Unit	50	106	158	0.7	2.0	1.3	0.5	2.4	1.9	27 - 35	27 - 35	20.8	16.0	700	450	210
2	2C	19.01	19	FCU/02	Bedroom 2	TOSHIBA	RAS-M07U2DVG-E	Ducted Fan Coil Unit	53	106	158	0.7	2.0	1.3	0.5	2.4	1.8	27 - 35	27 - 35	20.8	16.0	700	450	210
2	2C	19.01	19	FCU/03	Lounge	TOSHIBA	RAS-M10U2DVG-E	Ducted Fan Coil Unit	125	106	158	1.7	2.7	1.0	1.4	3.6	2.2	27 - 35	27 - 35	20.8	16.0	700	450	210
2	2C	19.05	19	FCU/01	Bedroom 1	TOSHIBA	RAS-M07U2DVG-E	Ducted Fan Coil Unit	50	106	158	0.7	2.0	1.3	0.5	2.4	1.9	27 - 35	27 - 35	20.8	16.0	700	450	210
2	2C	19.05	19	FCU/02	Bedroom 2	TOSHIBA	RAS-M07U2DVG-E	Ducted Fan Coil Unit	53	106	158	0.7	2.0	1.3	0.5	2.4	1.8	27 - 35	27 - 35	20.8	16.0	700	450	210
2	2C	19.05	19	FCU/03	Lounge	TOSHIBA	RAS-M10U2DVG-E	Ducted Fan Coil Unit	125	106	158	1.7	2.7	1.0	1.4	3.6	2.2	27 - 35	27 - 35	20.8	16.0	700	450	210
2	2C	19.06	19	FCU/01	Bedroom 1	TOSHIBA	RAS-M07U2DVG-E	Ducted Fan Coil Unit	50	106	158	0.7	2.0	1.3	0.5	2.4	1.9	27 - 35	27 - 35	20.8	16.0	700	450	210
2	2C	19.06	19	FCU/02	Bedroom 2	TOSHIBA	RAS-M07U2DVG-E	Ducted Fan Coil Unit	53	106	158	0.7	2.0	1.3	0.5	2.4	1.8	27 - 35	27 - 35	20.8	16.0	700	450	210
2	2C	19.06	19	FCU/03	Lounge	TOSHIBA	RAS-M10U2DVG-E	Ducted Fan Coil Unit	125	106	158	1.7	2.7	1.0	1.4	3.6	2.2	27 - 35	27 - 35	20.8	16.0	700	450	210
2	2C	19.10	19	FCU/01	Bedroom 1	TOSHIBA	RAS-M07U2DVG-E	Ducted Fan Coil Unit	50	106	158	0.7	2.0	1.3	0.5	2.4	1.9	27 - 35	27 - 35	20.8	16.0	700	450	210
2	2C	19.10	19	FCU/02	Bedroom 2	TOSHIBA	RAS-M07U2DVG-E	Ducted Fan Coil Unit	53	106	158	0.7	2.0	1.3	0.5	2.4	1.8	27 - 35	27 - 35	20.8	16.0	700	450	210
2	2C	19.10	19	FCU/03	Lounge	TOSHIBA	RAS-M10U2DVG-E	Ducted Fan Coil Unit	125	106	158	1.7	2.7	1.0	1.4	3.6	2.2	27 - 35	27 - 35	20.8	16.0	700	450	210
2	2G	19.07	19	FCU/01	Bedroom 1	TOSHIBA	MMD-AP0094SPH-E	Ducted Fan Coil Unit	60	112	150	0.8	2.5	1.7	0.5	2.2	1.7	24 - 28	24 - 28	27.3	22.0	845	645	210
2	2G	19.07	19	FCU/02	Bedroom 2	TOSHIBA	MMD-AP0094SPH-E	Ducted Fan Coil Unit	63	112	150	0.8	2.5	1.7	0.5	2.2	1.7	24 - 28	24 - 28	27.3	22.0	845	645	210
2	2G	19.07	19	FCU/03	Lounge	TOSHIBA	MMD-AP0124SPH-E	Ducted Fan Coil Unit	109	125	167	1.5	3.3	1.8	0.8	2.7	1.9	25 - 29	25 - 29	27.3	23.0	845	645	210
2	2H	19.02	19	FCU/01	Bedroom 1	TOSHIBA	MMD-AP0094SPH-E	Ducted Fan Coil Unit	52	112	150	0.7	2.5	1.8	0.5	2.2	1.7	24 - 28	24 - 28	28.8	22.0	845	645	210
2	2H	19.02	19	FCU/02	Bedroom 2	TOSHIBA	MMD-AP0094SPH-E	Ducted Fan Coil Unit	49	112	150	0.7	2.5	1.8	0.5	2.2	1.7	24 - 28	24 - 28	28.8	22.0	845	645	210
2	2H	19.02	19	FCU/03	Lounge	TOSHIBA	MMD-AP0124SPH-E	Ducted Fan Coil Unit	62	125	167	1.1	3.3	2.2	0.8	2.7	1.9	25 - 29	25 - 29	28.8	23.0	845	645	210
2	1A	20.08	20	FCU/01	Bedroom	TOSHIBA	RAS-M10U2DVG-E	Ducted Fan Coil Unit	106	106	158	1.2	2.2	1.0	1.1	3.0	2.0	27 - 35	27 - 35	20.0	16.0	700	450	210
2	1A	20.08	20	FCU/02	Lounge	TOSHIBA	RAS-M13U2DVG-E	Ducted Fan Coil Unit	160	107	169	1.8	3.0	1.2	0.7	3.8	3.1	27 - 37	27 - 37	20.0	16.0	700	450	210
2	1C	20.03	20	FCU/01	Bedroom	TOSHIBA	RAS-M07U2DVG-E	Ducted Fan Coil Unit	89	106	158	1.0	2.0	1.0	0.9	2.4	1.5	27 - 35	27 - 35	20.0	16.0	700	450	210
2	1C	20.03	20	FCU/02	Lounge	TOSHIBA	RAS-M10U2DVG-E	Ducted Fan Coil Unit	130	106	158	1.5	2.7	1.2	0.6	3.6	3.0	27 - 35	27 - 35	20.0	16.0	700	450	210
2	2A	20.09	20	FCU/01	Bedroom 1	TOSHIBA	RAS-M07U2DVG-E	Ducted Fan Coil Unit	63	106	158	0.8	2.0	1.2	0.8	2.4	1.5	27 - 35	27 - 35	20.0	16.0	700	450	210
2	2A	20.09	20	FCU/02	Bedroom 2	TOSHIBA	RAS-M07U2DVG-E	Ducted Fan Coil Unit	62	106	158	0.8	2.0	1.2	0.5	2.4	1.8	27 - 35	27 - 35	20.0	16.0	700	450	210
2	2A	20.09	20	FCU/03	Lounge	TOSHIBA	RAS-M10U2DVG-E	Ducted Fan Coil Unit	112	106	158	1.5	2.7	1.2	0.5	3.5	3.0	27 - 35	27 - 35	20.0	16.0	700	450	210
2	2B	20.04	20	FCU/01	Bedroom 1	TOSHIBA	RAS-M07U2DVG-E	Ducted Fan Coil Unit	50	106	158	0.7	2.0	1.3	0.8	2.4	1.6	27 - 35	27 - 35	20.0	16.0	700	450	210
2	2B	20.04	20	FCU/02	Bedroom 2	TOSHIBA	RAS-M07U2DVG-E	Ducted Fan Coil Unit	51	106	158	0.7	2.0	1.3	0.5	2.4	1.9	27 - 35	27 - 35	20.0	16.0	700	450	210
2	2B	20.04	20	FCU/03	Lounge	TOSHIBA	RAS-M10U2DVG-E	Ducted Fan Coil Unit	88	106	158	1.3	2.7	1.4	0.5	3.5	3.0	27 - 35	27 - 35	20.0	16.0	700	450	210
2	2C	20.01	20	FCU/01	Bedroom 1	TOSHIBA	RAS-M07U2DVG-E	Ducted Fan Coil Unit	50	106	158	0.7	2.0	1.3	0.5	2.4	1.9	27 - 35	27 - 35	20.0	16.0	700	450	210
2	2C	20.01	20	FCU/02	Bedroom 2	TOSHIBA	RAS-M07U2DVG-E	Ducted Fan Coil Unit	53	106	158	0.7	2.0	1.3	0.5	2.4	1.8	27 - 35	27 - 35	20.0	16.0	700	450	210
2	2C	20.01	20	FCU/03	Lounge	TOSHIBA	RAS-M10U2DVG-E	Ducted Fan Coil Unit	125	106	158	1.7	2.7	1.0	1.4	3.5	2.2	27 - 35	27 - 35	20.0	16.0	700	450	210
2	2C	20.05	20	FCU/01	Bedroom 1	TOSHIBA	RAS-M07U2DVG-E	Ducted Fan Coil Unit	50	106	158	0.7	2.0	1.3	0.5	2.4	1.9	27 - 35	27 - 35	20.0	16.0	700	450	210
2	2C	20.05	20	FCU/02	Bedroom 2	TOSHIBA	RAS-M07U2DVG-E	Ducted Fan Coil Unit	53	106	158	0.7	2.0	1.3	0.5	2.4	1.8	27 - 35	27 - 35	20.0	16.0	700	450	210
2	2C	20.05	20	FCU/03	Lounge	TOSHIBA	RAS-M10U2DVG-E	Ducted Fan Coil Unit	125	106	158	1.7	2.7	1.0	1.4	3.5	2.2	27 - 35	27 - 35	20.0	16.0	700	450	210
2	2C	20.06	20	FCU/01	Bedroom 1	TOSHIBA	RAS-M07U2DVG-E	Ducted Fan Coil Unit	50	106	158	0.7	2.0	1.3	0.5	2.4	1.9	27 - 35	27 - 35	20.0	16.0	700	450	210
2	2C	20.06	20	FCU/02	Bedroom 2	TOSHIBA	RAS-M07U2DVG-E	Ducted Fan Coil Unit	53	106	158	0.7	2.0	1.3	0.5	2.4	1.8	27 - 35	27 - 35	20.0	16.0	700	450	210
2	2C	20.06	20	FCU/03	Lounge	TOSHIBA	RAS-M10U2DVG-E	Ducted Fan Coil Unit	125	106	158	1.7	2.7	1.0	1.4	3.5	2.2	27 - 35	27 - 35	20.0	16.0	700	450	210
2	2C	20.10	20	FCU/01	Bedroom 1	TOSHIBA	RAS-M07U2DVG-E	Ducted Fan Coil Unit	50	106	158	0.7	2.0	1.3	0.5	2.4	1.9	27 - 35	27 - 35	20.0	16.0	700	450	210
2	2C	20.10	20	FCU/02	Bedroom 2	TOSHIBA	RAS-M07U2DVG-E	Ducted Fan Coil Unit	53	106	158	0.7	2.0	1.3	0.5	2.4	1.8	27 - 35	27 - 35	20.0	16.0	700	450	210
2	2C	20.10	20	FCU/03	Lounge	TOSHIBA	RAS-M10U2DVG-E	Ducted Fan Coil Unit	125	106	158	1.7	2.7	1.0	1.4	3.5	2.2	27 - 35	27 - 35	20.0	16.0	700	450	210
2	2G	20.07	20	FCU/01	Bedroom 1	TOSHIBA	RAS-M07U2DVG-E	Ducted Fan Coil Unit	60	106	158	0.8	2.0	1.2	0.5	2.4	1.9	27 - 35	27 - 35	20.0	16.0	700	450	210
2	2G	20.07	20	FCU/02	Bedroom 2	TOSHIBA	RAS-M07U2DVG-E	Ducted Fan Coil Unit	63	106	158	0.8	2.0	1.2	0.5	2.4	1.9	27 - 35	27 - 35	20.0	16.0	700	450	210
2	2G	20.07	20	FCU/03	Lounge	TOSHIBA	RAS-M10U2DVG-E	Ducted Fan Coil Unit	109	106	158	1.5	2.7	1.2	0.8	3.5	2.8	27 - 35	27 - 35	20.0	16.0	700	450	210
2	2H	20.02	20	FCU/01	Bedroom 1	TOSHIBA	RAS-M07U2DVG-E	Ducted Fan Coil Unit	52	106	158	0.7	2.0	1.3	0.5	2.4	1.9	27 - 35	27 - 35	20.0	16.0	700	450	210
2	2H	20.02	20	FCU/02	Bedroom 2	TOSHIBA	RAS-M07U2DVG-E	Ducted Fan Coil Unit	49	106	158	0.7	2.0	1.3</										

Air Conditioning - Technical Submittal

Project Angel Meadows, Plots 2 & 3
Project No. MCL120
Tech Submittal No. MCL120/TSM001
Revision G
Date 16/07/2021



Indoor Unit Schedule

Plot	Apt Type	Apt No.2	Level	Ref.	Room	Manufacturer	Model	Description	Req. Air Vol (l/s)	Min Air Vol (l/s)	Max Air Vol (l/s)	Req. Cooling (KW)	Cooling Capacity (KW)	Excess Cooling (KW)	Req. Heating (KW)	Heating Capacity (KW)	Excess Heating (KW)	Cooling Sound Pressure Level (dBA) (Min-Max)	Heating Sound Pressure Level (dBA) (Min-Max)	Pipe Run (m)	Weight (kg)	Width (mm)	Depth (mm)	Height (mm)
2	PH2	21.02	21	FCU/01	Bedroom 1	TOSHIBA	MMD-AP0074SPH-E	Ducted Fan Coil Unit	78	112	150	0.9	2.0	1.1	0.6	1.7	1.1	24 - 28	24 - 28	20.8	22.0	845	645	210
2	PH2	21.02	21	FCU/02	Bedroom 2	TOSHIBA	MMD-AP0074SPH-E	Ducted Fan Coil Unit	78	112	150	0.9	2.0	1.1	0.5	1.7	1.2	24 - 28	24 - 28	20.8	22.0	845	645	210
2	PH2	21.02	21	FCU/03	Bedroom 3	TOSHIBA	MMD-AP0074SPH-E	Ducted Fan Coil Unit	77	112	150	0.9	2.0	1.1	0.5	1.7	1.2	24 - 28	24 - 28	20.8	22.0	845	645	210
2	PH2	21.02	21	FCU/04	Lounge	TOSHIBA	MMD-AP0184SPH-E	Ducted Fan Coil Unit	307	162	217	3.6	5.0	1.4	2.7	5.8	3.1	29 - 33	29 - 33	20.8	23.0	845	645	210
2	PH3	21.03	21	FCU/01	Bedroom 1	TOSHIBA	MMD-AP0074SPH-E	Ducted Fan Coil Unit	102	112	150	1.2	2.0	0.8	0.6	1.7	1.1	24 - 28	24 - 28	20.8	22.0	845	645	210
2	PH3	21.03	21	FCU/02	Bedroom 2	TOSHIBA	MMD-AP0074SPH-E	Ducted Fan Coil Unit	96	112	150	1.1	2.0	0.9	0.4	1.7	1.3	24 - 28	24 - 28	20.8	22.0	845	645	210
2	PH3	21.03	21	FCU/03	Bedroom 3	TOSHIBA	MMD-AP0074SPH-E	Ducted Fan Coil Unit	103	112	150	1.2	2.0	0.8	0.7	1.7	1.0	24 - 28	24 - 28	20.8	22.0	845	645	210
2	PH3	21.03	21	FCU/04	Lounge	TOSHIBA	MMD-AP0184SPH-E	Ducted Fan Coil Unit	303	162	217	3.8	5.1	1.3	2.6	5.8	3.2	29 - 33	29 - 33	20.8	23.0	845	645	210
2	PH4	21.04	21	FCU/01	Bedroom 1	TOSHIBA	MMD-AP0074SPH-E	Ducted Fan Coil Unit	96	112	150	1.1	2.0	0.9	0.5	1.7	1.2	24 - 28	24 - 28	20.8	22.0	845	645	210
2	PH4	21.04	21	FCU/02	Bedroom 2	TOSHIBA	MMD-AP0074SPH-E	Ducted Fan Coil Unit	99	112	150	1.2	2.0	0.8	0.6	1.7	1.1	24 - 28	24 - 28	20.8	22.0	845	645	210
2	PH4	21.04	21	FCU/03	Bedroom 3	TOSHIBA	MMD-AP0074SPH-E	Ducted Fan Coil Unit	102	112	150	1.2	2.0	0.8	0.6	1.7	1.1	24 - 28	24 - 28	20.8	22.0	845	645	210
2	PH4	21.04	21	FCU/04	Lounge	TOSHIBA	MMD-AP0184SPH-E	Ducted Fan Coil Unit	291	162	217	3.6	5.0	1.4	2.4	5.8	3.4	29 - 33	29 - 33	20.8	23.0	845	645	210
3	1B	14.05	14	FCU/01	Bedroom	TOSHIBA	RAS-M07U2DVG-E	Ducted Fan Coil Unit	55	106	158	0.7	1.7	1.0	0.9	3.0	2.1	27 - 35	27 - 35	24.8	16.0	700	450	210
3	1B	14.05	14	FCU/02	Lounge	TOSHIBA	RAS-M13U2DVG-E	Ducted Fan Coil Unit	155	107	169	1.5	3.4	1.9	0.6	4.4	3.8	27 - 37	27 - 37	24.8	16.0	700	450	210
3	1D	14.02	14	FCU/01	Bedroom	TOSHIBA	RAS-M07U2DVG-E	Ducted Fan Coil Unit	46	106	158	0.6	1.7	1.1	0.9	3.0	2.1	27 - 35	27 - 35	24.8	16.0	700	450	210
3	1D	14.02	14	FCU/02	Lounge	TOSHIBA	RAS-M13U2DVG-E	Ducted Fan Coil Unit	122	107	169	1.3	3.4	2.1	0.6	4.4	3.8	27 - 37	27 - 37	24.8	16.0	700	450	210
3	2C	14.04	14	FCU/01	Bedroom 1	TOSHIBA	RAS-M07U2DVG-E	Ducted Fan Coil Unit	50	106	158	0.7	2.0	1.3	0.5	2.4	1.9	27 - 35	27 - 35	23.2	16.0	700	450	210
3	2C	14.04	14	FCU/02	Bedroom 2	TOSHIBA	RAS-M07U2DVG-E	Ducted Fan Coil Unit	53	106	158	0.7	2.0	1.3	0.5	2.4	1.8	27 - 35	27 - 35	23.2	16.0	700	450	210
3	2C	14.04	14	FCU/03	Lounge	TOSHIBA	RAS-M10U2DVG-E	Ducted Fan Coil Unit	125	106	158	1.7	2.7	1.0	1.4	3.5	2.2	27 - 35	27 - 35	23.2	16.0	700	450	210
3	2D	14.03	14	FCU/01	Bedroom 1	TOSHIBA	RAS-M07U2DVG-E	Ducted Fan Coil Unit	50	106	158	0.7	2.0	1.3	0.5	2.4	1.9	27 - 35	27 - 35	24.8	16.0	700	450	210
3	2D	14.03	14	FCU/02	Bedroom 2	TOSHIBA	RAS-M07U2DVG-E	Ducted Fan Coil Unit	48	106	158	0.6	2.0	1.4	0.4	2.4	1.9	27 - 35	27 - 35	24.8	16.0	700	450	210
3	2D	14.03	14	FCU/03	Lounge	TOSHIBA	RAS-M10U2DVG-E	Ducted Fan Coil Unit	131	106	158	1.7	2.7	1.0	1.4	3.5	2.1	27 - 35	27 - 35	24.8	16.0	700	450	210
3	3A	14.06	14	FCU/01	Bedroom 1	TOSHIBA	RAS-M07U2DVG-E	Ducted Fan Coil Unit	55	106	158	0.7	1.8	1.1	0.4	2.0	1.5	27 - 35	27 - 35	19.7	16.0	700	450	210
3	3A	14.06	14	FCU/02	Bedroom 2	TOSHIBA	RAS-M07U2DVG-E	Ducted Fan Coil Unit	56	106	158	0.7	1.8	1.1	0.4	2.0	1.5	27 - 35	27 - 35	19.7	16.0	700	450	210
3	3A	14.06	14	FCU/03	Bedroom 3	TOSHIBA	RAS-M07U2DVG-E	Ducted Fan Coil Unit	57	106	158	0.7	1.8	1.1	0.5	2.0	1.5	27 - 35	27 - 35	19.7	16.0	700	450	210
3	3A	14.06	14	FCU/04	Lounge	TOSHIBA	RAS-M13U2DVG-E	Ducted Fan Coil Unit	227	107	169	2.8	3.3	0.5	1.6	3.7	2.1	27 - 37	27 - 37	19.7	16.0	700	450	210
3	3D	14.01	14	FCU/01	Bedroom 1	TOSHIBA	RAS-M07U2DVG-E	Ducted Fan Coil Unit	46	106	158	0.6	1.8	1.2	0.4	2.0	1.6	27 - 35	27 - 35	19.7	16.0	700	450	210
3	3D	14.01	14	FCU/02	Bedroom 2	TOSHIBA	RAS-M07U2DVG-E	Ducted Fan Coil Unit	47	106	158	0.6	1.8	1.2	0.4	2.0	1.5	27 - 35	27 - 35	19.7	16.0	700	450	210
3	3D	14.01	14	FCU/03	Bedroom 3	TOSHIBA	RAS-M07U2DVG-E	Ducted Fan Coil Unit	50	106	158	0.7	1.8	1.1	0.5	2.0	1.5	27 - 35	27 - 35	19.7	16.0	700	450	210
3	3D	14.01	14	FCU/04	Lounge	TOSHIBA	RAS-M13U2DVG-E	Ducted Fan Coil Unit	212	107	169	2.7	3.3	0.6	1.6	3.7	2.1	27 - 37	27 - 37	19.7	16.0	700	450	210
3	1B	15.05	15	FCU/01	Bedroom	TOSHIBA	RAS-M07U2DVG-E	Ducted Fan Coil Unit	55	106	158	0.7	2.0	1.3	0.9	2.4	1.5	27 - 35	27 - 35	21.8	16.0	700	450	210
3	1B	15.05	15	FCU/02	Lounge	TOSHIBA	RAS-M10U2DVG-E	Ducted Fan Coil Unit	155	106	158	1.5	2.7	1.2	0.6	3.5	2.9	27 - 35	27 - 35	21.8	16.0	700	450	210
3	1D	15.02	15	FCU/01	Bedroom	TOSHIBA	RAS-M07U2DVG-E	Ducted Fan Coil Unit	46	106	158	0.6	2.0	1.4	0.9	2.4	1.5	27 - 35	27 - 35	21.8	16.0	700	450	210
3	1D	15.02	15	FCU/02	Lounge	TOSHIBA	RAS-M10U2DVG-E	Ducted Fan Coil Unit	122	106	158	1.3	2.7	1.4	0.6	3.5	2.9	27 - 35	27 - 35	21.8	16.0	700	450	210
3	2C	15.04	15	FCU/01	Bedroom 1	TOSHIBA	RAS-M07U2DVG-E	Ducted Fan Coil Unit	50	106	158	0.7	2.0	1.3	0.5	2.4	1.9	27 - 35	27 - 35	23.2	16.0	700	450	210
3	2C	15.04	15	FCU/02	Bedroom 2	TOSHIBA	RAS-M07U2DVG-E	Ducted Fan Coil Unit	53	106	158	0.7	2.0	1.3	0.5	2.4	1.8	27 - 35	27 - 35	23.2	16.0	700	450	210
3	2C	15.04	15	FCU/03	Lounge	TOSHIBA	RAS-M10U2DVG-E	Ducted Fan Coil Unit	125	106	158	1.7	2.7	1.0	1.4	3.5	2.2	27 - 35	27 - 35	23.2	16.0	700	450	210
3	2D	15.03	15	FCU/01	Bedroom 1	TOSHIBA	RAS-M07U2DVG-E	Ducted Fan Coil Unit	50	106	158	0.7	2.0	1.3	0.5	2.4	1.9	27 - 35	27 - 35	21.8	16.0	700	450	210
3	2D	15.03	15	FCU/02	Bedroom 2	TOSHIBA	RAS-M07U2DVG-E	Ducted Fan Coil Unit	48	106	158	0.6	2.0	1.4	0.4	2.4	1.9	27 - 35	27 - 35	21.8	16.0	700	450	210
3	2D	15.03	15	FCU/03	Lounge	TOSHIBA	RAS-M10U2DVG-E	Ducted Fan Coil Unit	131	106	158	1.7	2.7	1.0	1.4	3.5	2.1	27 - 35	27 - 35	21.8	16.0	700	450	210
3	3A	15.06	15	FCU/01	Bedroom 1	TOSHIBA	RAS-M07U2DVG-E	Ducted Fan Coil Unit	55	106	158	0.7	1.8	1.1	0.4	2.0	1.5	27 - 35	27 - 35	17.4	16.0	700	450	210
3	3A	15.06	15	FCU/02	Bedroom 2	TOSHIBA	RAS-M07U2DVG-E	Ducted Fan Coil Unit	56	106	158	0.7	1.8	1.1	0.4	2.0	1.5	27 - 35	27 - 35	17.4	16.0	700	450	210
3	3A	15.06	15	FCU/03	Bedroom 3	TOSHIBA	RAS-M07U2DVG-E	Ducted Fan Coil Unit	57	106	158	0.7	1.8	1.1	0.5	2.0	1.5	27 - 35	27 - 35	17.4	16.0	700	450	210
3	3A	15.06	15	FCU/04	Lounge	TOSHIBA	RAS-M13U2DVG-E	Ducted Fan Coil Unit	227	107	169	2.8	3.3	0.5	1.6	3.7	2.1	27 - 37	27 - 37	17.4	16.0	700	450	210
3	3D	15.01	15	FCU/01	Bedroom 1	TOSHIBA	RAS-M07U2DVG-E	Ducted Fan Coil Unit	46	106	158	0.6	1.8	1.2	0.4	2.0	1.6	27 - 35	27 - 35	17.4	16.0	700	450	210
3	3D	15.01	15	FCU/02	Bedroom 2	TOSHIBA	RAS-M07U2DVG-E	Ducted Fan Coil Unit	47	106	158	0.6	1.8	1.2	0.4	2.0	1.5	27 - 35	27 - 35	17.4	16.0	700	450	210
3	3D	15.01	15	FCU/03	Bedroom 3	TOSHIBA	RAS-M07U2DVG-E	Ducted Fan Coil Unit	50	106	158	0.7	1.8	1.1	0.5	2.0	1.5	27 - 35	27 - 35	17.4	16.0	700	450	210
3	3D	15.01	15	FCU/04	Lounge	TOSHIBA	RAS-M13U2DVG-E	Ducted Fan Coil Unit	212	107	169	2.7	3.3	0.6	1.6	3.7	2.1	27 - 37	27 - 37	17.4	16.0	700	450	210
3	PH5	16.01	16	FCU/01	Bedroom 1	TOSHIBA	MMD-AP0124SPH-E	Ducted Fan Coil Unit	209	125	167	2.4	3.3	0.9	1.2	2.7	1.5	25 - 29	25 - 29	16.8	23.0	845	645	210
3	PH5	16.01	16	FCU/02	Bedroom 2	TOSHIBA	MMD-AP0056SPH-E	Ducted Fan Coil Unit	71	103	121	0.9	1.5	0.6	0.5	1.3	0.8	24 - 27	24 - 27	16.8	23.0	845	645	210
3	PH5	16.01	16	FCU/03	Bedroom 3	TOSHIBA	MMD-AP0094SPH-E	Ducted Fan Coil Unit	144	112	150	1.6	2.5	0.9	0.6	2.2	1.6	24 - 28	24 - 28	16.8	23.0	845	645	210
3	PH5	16.01	16	FCU/04	Lounge	TOSHIBA	MMD-AP0184SPH-E	Ducted Fan Coil Unit	329	162	217	3.8	5.1	1.3	2.3	5.8	3.5	29 - 33	29 - 33	16.8	23.0	845	645	210
3	PH6	16.02	16	FCU/01	Bedroom 1	TOSHIBA	MMD-AP0056SPH-E	Ducted Fan Coil Unit	71	103	121	0.9	1.5	0.6	0.7	1.3	0.6	24 - 27	24 - 27	14.6	23.0	845	645	210
3	PH6	16.02	16	FCU/02	Bedroom 2	TOSHIBA	MMD-AP0094SPH-E	Ducted Fan Coil Unit	155	112	150	1.8	2.5	0.7	1.0	2.2	1.2	24 - 28	24 - 28	14.6	23.0	845	645	210
3	PH6	16.02	16	FCU/03	Bedroom 3	TOSHIBA	MMD-AP0056SPH-E	Ducted Fan																

Air Conditioning - Technical Submittal

Project Angel Meadows, Plots 2 & 3
Project No. MC1120
Tech Submittal No. MC1120/TSM001
Revision G
Date 16/07/2021



Condenser Unit Schedule

Ref.	Plot	Location	Manufacturer	Model	Description	Cooling Capacity (kW)	Heating Capacity (kW)	Weight (kg)	Width (mm)	Depth (mm)	Height (mm)	Serving Apt No.
CD/19.01	2	Roof	TOSHIBA	RAS-3M26U2AVG-E	MULTI SPLIT OUTDOOR	9.0	11.2	72.0	890	320	900	19.01
CD/19.02	2	Roof	TOSHIBA	MCY-MHP0406HT-E	MINI VRF OUTDOOR	12.1	12.5	100.0	990	390	910	19.02
CD/19.03	2	Roof	TOSHIBA	RAS-3M26U2AVG-E	MULTI SPLIT OUTDOOR	9.0	11.2	72.0	890	320	900	19.03
CD/19.04	2	Roof	TOSHIBA	MCY-MHP0406HT-E	MINI VRF OUTDOOR	12.1	12.5	100.0	990	390	910	19.04
CD/19.05	2	Roof	TOSHIBA	RAS-3M26U2AVG-E	MULTI SPLIT OUTDOOR	9.0	11.2	72.0	890	320	900	19.05
CD/19.06	2	Roof	TOSHIBA	RAS-3M26U2AVG-E	MULTI SPLIT OUTDOOR	9.0	11.2	72.0	890	320	900	19.06
CD/19.07	2	Roof	TOSHIBA	RAS-5M34U2AVG-E	MULTI SPLIT OUTDOOR	11.0	14.0	78.0	900	320	890	19.07
CD/19.08	2	Roof	TOSHIBA	RAS-3M26U2AVG-E	MULTI SPLIT OUTDOOR	9.0	11.2	72.0	890	320	900	19.08
CD/19.09	2	Roof	TOSHIBA	MCY-MHP0406HT-E	MINI VRF OUTDOOR	12.1	12.5	100.0	990	390	910	19.09
CD/19.10	2	Roof	TOSHIBA	RAS-3M26U2AVG-E	MULTI SPLIT OUTDOOR	9.0	11.2	72.0	890	320	900	19.10
CD/20.01	2	Roof	TOSHIBA	RAS-3M26U2AVG-E	MULTI SPLIT OUTDOOR	9.0	11.2	72.0	890	320	900	20.01
CD/20.02	2	Roof	TOSHIBA	RAS-3M26U2AVG-E	MULTI SPLIT OUTDOOR	9.0	11.2	72.0	890	320	900	20.02
CD/20.03	2	Roof	TOSHIBA	RAS-3M18U2AVG-E	MULTI SPLIT OUTDOOR	5.20	6.80	46.00	800	300	630	20.03
CD/20.04	2	Roof	TOSHIBA	RAS-3M26U2AVG-E	MULTI SPLIT OUTDOOR	9.0	11.2	72.0	890	320	900	20.04
CD/20.05	2	Roof	TOSHIBA	RAS-3M26U2AVG-E	MULTI SPLIT OUTDOOR	9.0	11.2	72.0	890	320	900	20.05
CD/20.06	2	Roof	TOSHIBA	RAS-3M26U2AVG-E	MULTI SPLIT OUTDOOR	9.0	11.2	72.0	890	320	900	20.06
CD/20.07	2	Roof	TOSHIBA	RAS-3M26U2AVG-E	MULTI SPLIT OUTDOOR	9.0	11.2	72.0	890	320	900	20.07
CD/20.08	2	Roof	TOSHIBA	RAS-3M18U2AVG-E	MULTI SPLIT OUTDOOR	5.20	6.80	46.00	800	300	630	20.08
CD/20.09	2	Roof	TOSHIBA	RAS-3M26U2AVG-E	MULTI SPLIT OUTDOOR	9.0	11.2	72.0	890	320	900	20.09
CD/20.10	2	Roof	TOSHIBA	RAS-3M26U2AVG-E	MULTI SPLIT OUTDOOR	9.0	11.2	72.0	890	320	900	20.10
CD/21.01	2	Roof	TOSHIBA	RAS-5M34U2AVG-E	MULTI SPLIT OUTDOOR	11.0	14.0	78.0	900	320	890	21.01
CD/21.02	2	Roof	TOSHIBA	MCY-MHP0406HT-E	MINI VRF OUTDOOR	12.1	12.5	100.0	990	390	910	21.02
CD/21.03	2	Roof	TOSHIBA	MCY-MHP0406HT-E	MINI VRF OUTDOOR	12.1	12.5	100.0	990	390	910	21.03
CD/21.04	2	Roof	TOSHIBA	MCY-MHP0406HT-E	MINI VRF OUTDOOR	12.1	12.5	100.0	990	390	910	21.04
CD/14.01	3	Roof	TOSHIBA	RAS-5M34U2AVG-E	MULTI SPLIT OUTDOOR	11.0	14.0	78.0	900	320	890	14.01
CD/14.02	3	Roof	TOSHIBA	RAS-3M18U2AVG-E	MULTI SPLIT OUTDOOR	5.20	6.80	46.00	800	300	630	14.02
CD/14.03	3	Roof	TOSHIBA	RAS-5M34U2AVG-E	MULTI SPLIT OUTDOOR	11.0	14.0	78.0	900	320	890	14.03
CD/14.04	3	Roof	TOSHIBA	RAS-3M26U2AVG-E	MULTI SPLIT OUTDOOR	9.0	11.2	72.0	890	320	900	14.04
CD/14.05	3	Roof	TOSHIBA	RAS-3M18U2AVG-E	MULTI SPLIT OUTDOOR	5.20	6.80	46.00	800	300	630	14.05
CD/14.06	3	Roof	TOSHIBA	RAS-5M34U2AVG-E	MULTI SPLIT OUTDOOR	11.0	14.0	78.0	900	320	890	14.06
CD/15.01	3	Roof	TOSHIBA	RAS-5M34U2AVG-E	MULTI SPLIT OUTDOOR	11.0	14.0	78.0	900	320	890	15.01
CD/15.02	3	Roof	TOSHIBA	RAS-3M18U2AVG-E	MULTI SPLIT OUTDOOR	5.20	6.80	46.00	800	300	630	15.02
CD/15.03	3	Roof	TOSHIBA	RAS-3M26U2AVG-E	MULTI SPLIT OUTDOOR	9.0	11.2	72.0	890	320	900	15.03
CD/15.04	3	Roof	TOSHIBA	RAS-3M26U2AVG-E	MULTI SPLIT OUTDOOR	9.0	11.2	72.0	890	320	900	15.04

Air Conditioning - Technical Submittal

Project Angel Meadows, Plots 2 & 3
Project No. MC1120
Tech Submittal No. MC1120/TSM001
Revision G
Date 16/07/2021



Condenser Unit Schedule

CD/15.05	3	Roof	TOSHIBA	RAS-3M18U2AVG-E	MULTI SPLIT OUTDOOR	5.20	6.80	46.00	800	300	630	15.05
CD/15.06	3	Roof	TOSHIBA	RAS-5M34U2AVG-E	MULTI SPLIT OUTDOOR	11.0	14.0	78.0	900	320	890	15.06
CD/16.01	3	Roof	TOSHIBA	MCY-MHP0506HT-E	MINI VRF OUTDOOR	14.0	16.0	100.0	990	390	910	16.01
CD/16.02	3	Roof	TOSHIBA	MCY-MHP0406HT-E	MINI VRF OUTDOOR	12.1	12.5	100.0	990	390	910	16.02

Notes:
1) Metered electrical supply shall be taken from the respective apartment's consumer unit to serve condensers.

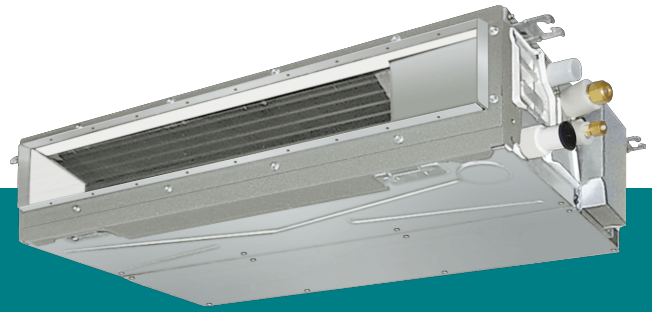
Air Conditioning - Technical Submittal

Project Angel Meadows, Plots 2 & 3
Project No. MC1120
Tech Submittal No. MC1120/TSM001
Revision G
Date 16/07/2021



Landlord's Condenser Unit Schedule

Ref.	Plot	Location	Manufacturer	Model	Description	Req. Cooling (kW)	Cooling Capacity (kW)	Req. Heating (kW)	Heating Capacity (kW)	Weight (kg)	Width (mm)	Depth (mm)	Height (mm)	Serving Area
CD/01	2	GF - Bin Store	Toshiba	RAV-GM1101ATP-E	Spilt	-	9.5	-	11.2	68.0	900	320	890	Server
CD/02	3	GF - Bin Store	Toshiba	RAV-GM1101ATP-E	Spilt	-	9.5	-	11.2	68.0	900	320	890	Server
CD/03	3	GF - Bin Store	Toshiba	RAV-GP1401ATP-E	Twin Split	5.5	12.5	-	14.0	104.0	1010	370	1550	Gym
CD/04	3	GF - Bin Store	Toshiba	RAV-GP1401ATP-E	Twin Split	5.5	12.5	-	14.0	104.0	1010	370	1550	Gym
CD/05	3	GF - Bin Store	Toshiba	RAV-GM2241AT8-E	Multi Split	8.2	19.0	-	22.4	142.0	1010	370	1550	PDR



INVISIBLE AIR CONDITIONING

Duct unit R32/R410A →

Highlights

- Extremely quiet
- Optimal air distribution possible
- External fresh air supply possible



The shape of the room doesn't matter – duct units ensure even temperatures throughout. Air can be supplied into the room discretely via one or more air outlets.

→ Attractive and economical

- High (A++) energy efficiency for multi-systems
- Can be integrated unseen into false ceilings
- High-performance heat exchanger
- Direct current hybrid inverter technology
- Exceptionally high efficiency in the partial load range
- Self-cleaning function
- Low-noise, 5-stage fan

→ Resource-friendly

- Eco operation
- Environmentally-friendly refrigerant R410A
- Air used as energy source in heating mode

→ Cleaner ambient air

- Self-cleaning function dries the heat exchanger after operation
- Customized external air filter settings

→ Technical details

- Very low overall height of only 21 cm
- External, static compression can be set up to 45 Pa
- Air intake possible from below or behind
- Integrated drain pump with a discharge head up to 35 cm

→ Easy operation

- Infrared remote control included
- 24 hour ON/OFF timer
- Automatic mode
- Eco mode
- Hi Power
- Quiet
- Preset
- Comfort Sleep
- Optional WiFi control via smartphone, tablet, or PC

→ Optional comfort and saving functions

- Comfort cable remote control optionally available
- Large, backlit display
- Weekly timer with 4 freely programmable settings per day
- 28 time programs per week
- Monitoring function
- Integrated temperature sensor

Duct unit R32/R410A

Technical data			RAS-M10U2DVG-E
Cooling capacity	kW	❄️	2,70
Heating capacity	kW	🔥	4,00
Sound pressure level (low/med/high)	dB(A)	❄️	27/35
Sound pressure level (low/med/high)	dB(A)	🔥	27/35
Sound power level	dB(A)	❄️	42/50
Sound power level	dB(A)	🔥	42/50
Sound pressure level, air supply from behind (min.-max.)	dB(A)	❄️	25/27/29/31/33
Sound pressure level, air supply from behind (min.-max.)		🔥	25/27/29/31/33
Sound pressure level, air supply from below (min.-max.)	dB(A)	❄️	30/33/35/38/41
Sound pressure level, air supply from below (min.-max.)		🔥	30/33/35/38/41
Airflow	m³/h		570
External static pressure	Pa		10/20/35/45
Suction gas pipe diameter	mm (inch)		9,5 (3/8)
Liquid pipe diameter	mm (inch)		6,3 (¼)
Power supply	V/Ph+N/Hz		220-240/1/50
Refrigerant			R32/R410A
Dimensions (HxWxD)	mm		210 x 700 x 450
Weight	kg		16

❄️ Cooling 🔥 Heating

The measuring conditions for this product can be found at <http://www.toshiba-klima.at/en/measuring-conditions.html>



Energy Label: Energy label **A+ to A+++**, indicates the power consumption and energy efficiency class.



ErP Ecodesign: All criteria of **ECODESIGN**-guideline are fulfilled and confirm highest system efficiency.



Hybrid inverter control: Smooth capacity regulation.



Rotary compressor: Reliability and high efficiency.



Twin rotary compressor: Long-lasting, smoothly running and highest efficiency.



R410A: Used refrigerant: R410A.



R32: Used refrigerant: R32.



Wifi ready: Optional control of the system via a smartphone.



KNX: Optional KNX bus connection.



Dust filter: Washable filter against coarse contamination.



IAQ filter: Fine mesh filter with natural substances.



Active carbon-catechin filter: Cleansing filter with enzymes from green tea.



Plasma filter: Pure Mode: Electrostatic filter system.



Air ionizer: Negative ions cover polluted particles in the air. Dust, pollen and smoke are neutralized.



Self-cleaning function: Usage of condensate water for cleaning.



Auto Mode: Automatic selection between cooling and heating.



HI POWER: Particularly strong airflow for quickly reaching the requested temperature.



Auto diagnostic: Check of system for flawless operation.



Eco Mode: Energy saving function.



Quiet Mode: Particularly low noise level - whispering mode.



Comfort Sleep: Gradual increase of temperature by 2 °C until morning.



Power Selection: Capacity regulation and therefore power savings of up to 25, 50 or 75%.



Floor Mode: Natural floor warming effect for greater comfort.



Preset Mode: Activates individual settings at the touch of a button.



One Touch Mode: Fully automatic operation adapted to your needs.



Timer: Individual programming of on-/off times.



Off Timer: Shutdown of the unit at chosen times (30 min to 12 h).



Week Timer: Up to four settings per day and seven per week.



Automatic Restart: After a power blackout.



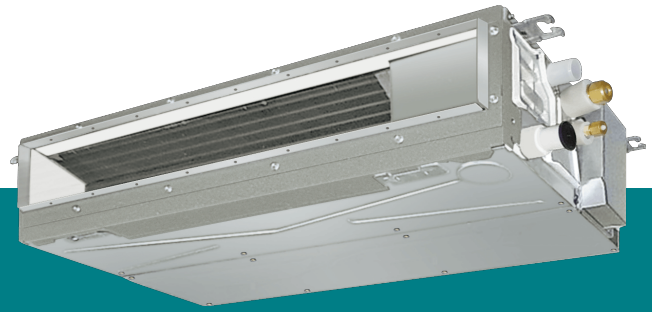
8 °C frost protection function: Frost protection for uninhabited rooms.



Louver: Flexible setting of louvers.



3D Airflow: 6 different airflow patterns in all directions.



INVISIBLE AIR CONDITIONING

Duct unit R32/R410A →

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→ Resource-friendly

- Eco operation
- Environmentally-friendly refrigerant R410A
- Air used as energy source in heating mode

→ Cleaner ambient air

- Self-cleaning function dries the heat exchanger after operation
- Customized external air filter settings

→ Technical details

- Very low overall height of only 21 cm
- External, static compression can be set up to 45 Pa
- Air intake possible from below or behind
- Integrated drain pump with a discharge head up to 35 cm

→ Easy operation

- Infrared remote control included
- 24 hour ON/OFF timer
- Automatic mode
- Eco mode
- Hi Power
- Quiet
- Preset
- Comfort Sleep
- Optional WiFi control via smartphone, tablet, or PC

→ Optional comfort and saving functions

- Comfort cable remote control optionally available
- Large, backlit display
- Weekly timer with 4 freely programmable settings per day
- 28 time programs per week
- Monitoring function
- Integrated temperature sensor

TOSHIBA

Duct unit R32/R410A

Technical data			RAS-M13U2DVG-E
Cooling capacity	kW		3,70
Heating capacity	kW		5,00
Sound pressure level (low/med/high)	dB(A)		27/37
Sound pressure level (low/med/high)	dB(A)		27/37
Sound power level	dB(A)		42/52
Sound power level	dB(A)		42/52
Sound pressure level, air supply from behind (min.-max.)	dB(A)		25/27/29/32/35
Sound pressure level, air supply from behind (min.-max.)			25/27/29/32/35
Sound pressure level, air supply from below (min.-max.)	dB(A)		30/33/36/39/43
Sound pressure level, air supply from below (min.-max.)			30/33/36/39/43
Airflow	m ³ /h		610
External static pressure	Pa		10/20/35/45
Suction gas pipe diameter	mm (inch)		9,5 (3/8)
Liquid pipe diameter	mm (inch)		6,3 (¼)
Power supply	V/Ph+N/Hz		220-240/1/50
Refrigerant			R32/R410A
Dimensions (HxWxD)	mm		210 x 700 x 450
Weight	kg		16

 Cooling  Heating

The measuring conditions for this product can be found at <http://www.toshiba-klima.at/en/measuring-conditions.html>



Energy Label: Energy label **A+ to A+++**, indicates the power consumption and energy efficiency class.



ErP Ecodesign: All criteria of **ECODESIGN**-guideline are fulfilled and confirm highest system efficiency.



Hybrid inverter control: Smooth capacity regulation.



Rotary compressor: Reliability and high efficiency.



Twin rotary compressor: Long-lasting, smoothly running and highest efficiency.



R410A: Used refrigerant: R410A.



R32: Used refrigerant: R32.



Wifi ready: Optional control of the system via a smartphone.



KNX: Optional KNX bus connection.



Dust filter: Washable filter against coarse contamination.



IAQ filter: Fine mesh filter with natural substances.



Active carbon-catechin filter: Cleansing filter with enzymes from green tea.



Plasma filter: Pure Mode: Electrostatic filter system.



Air ionizer: Negative ions cover polluted particles in the air. Dust, pollen and smoke are neutralized.



Self-cleaning function: Usage of condensate water for cleaning.



Auto Mode: Automatic selection between cooling and heating.



HI POWER: Particularly strong airflow for quickly reaching the requested temperature.



Auto diagnostic: Check of system for flawless operation.



Eco Mode: Energy saving function.



Quiet Mode: Particularly low noise level - whispering mode.



Comfort Sleep: Gradual increase of temperature by 2 °C until morning.



Power Selection: Capacity regulation and therefore power savings of up to 25, 50 or 75%.



Floor Mode: Natural floor warming effect for greater comfort.



Preset Mode: Activates individual settings at the touch of a button.



One Touch Mode: Fully automatic operation adapted to your needs.



Timer: Individual programming of on-/off times.



Off Timer: Shutdown of the unit at chosen times (30 min to 12 h).



Week Timer: Up to four settings per day and seven per week.



Automatic Restart: After a power blackout.



8 °C frost protection function: Frost protection for uninhabited rooms.



Louver: Flexible setting of louvers.



3D Airflow: 6 different airflow patterns in all directions.

Toshiba Air Conditioning - VRF Data Sheet

MMD-AP0074SPH-E

Slim ducted

Features

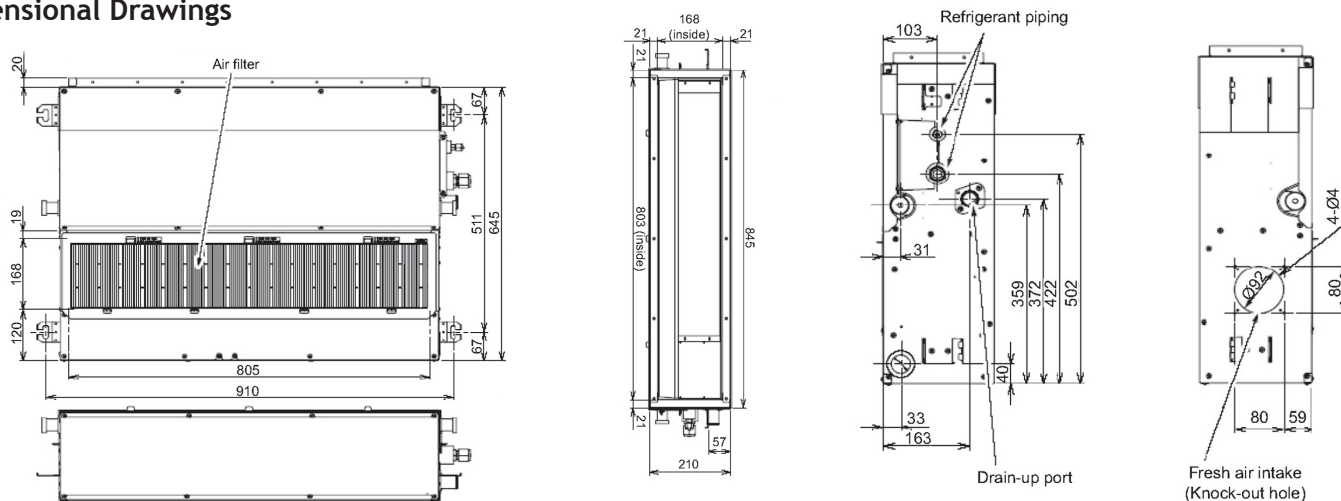
- External static pressure can be raised up to 46 Pa
- Low noise: low fan speed down to 24 dB(A)
- Fresh air intake
- Lift pump up to 550 mm lift
- Ideal for restricted ceiling voids only 210 mm high
- Base or rear return air



Technical Data

Model reference		MMD-AP0074SPH-E
Nominal cooling	kW	2.2
Nominal heating	kW	2.5
Capacity code		0.8
Power input (cool/heat)	kW	0.039
UK cooling	kW	2.11
UK sensible cooling	kW	1.59
UK heating	kW	2.03
Starting current	A	0.51
Running current	A	0.29
Suggested fuse size	A	5
Power supply	V-ph-Hz	220/240-1-50
Interconnecting cable		2-core screened 1.5 mm
Sound power H-M-L (base/rear air inlet)	dB(A)	55-52-47/43-41-39
Sound pressure H-L (base/rear air inlet)	dB(A)	36-30/28-24
Standard air flow H-L	m³/h	540-400
Standard air flow H-L	l/s	150-111
External static pressure (factory default)	Pa	6
Static pressure range	Pa	6-46 (4 steps)
Dimensions (H x W x D)	mm	210 x 845 x 645
Unit weight	kg	22

Dimensional Drawings



Cool Designs Ltd

Raising the Standards in Air Conditioning Distribution

www.cdlweb.info



All UK duties are based on Cooling Indoor air temperature 22°C DB/16°C WB Outdoor air temperature 28°C DB 50% RH, high fan speed, 5 m pipe run.
Heating Indoor air temperature 21°C DB Outdoor air temperature -4°C DB 100% RH, high fan speed, 5 m pipe run. Values are based on the maximum compressor output.
Data obtained from Toshiba Air Conditioning Web Data July 2013.

Toshiba Air Conditioning - VRF Data Sheet

MMD-AP0094SPH-E

Slim ducted

Features

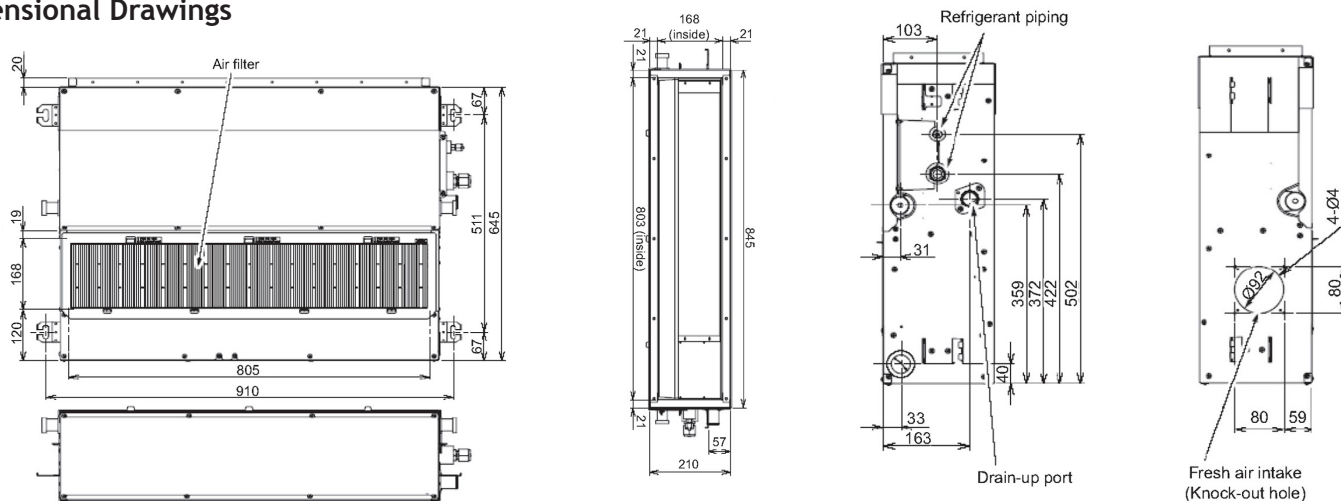
- External static pressure can be raised up to 46 Pa
- Low noise: low fan speed down to 24 dB(A)
- Fresh air intake
- Lift pump up to 550 mm lift
- Ideal for restricted ceiling voids only 210 mm high
- Base or rear return air



Technical Data

Model reference		MMD-AP0094SPH-E
Nominal cooling	kW	2.8
Nominal heating	kW	3.2
Capacity code		1.0
Power input (cool/heat)	kW	0.039
UK cooling	kW	2.69
UK sensible cooling	kW	2.02
UK heating	kW	2.59
Starting current	A	0.51
Running current	A	0.29
Suggested fuse size	A	5
Power supply	V-ph-Hz	220/240-1-50
Interconnecting cable		2-core screened 1.5 mm
Sound power H-M-L (base/rear air inlet)	dB(A)	55-52-47/43-41-39
Sound pressure H-L (base/rear air inlet)	dB(A)	36-30/28-24
Standard air flow H-L	m³/h	540-400
Standard air flow H-L	l/s	150-111
External static pressure (factory default)	Pa	6
Static pressure range	Pa	6-46 (4 steps)
Dimensions (H x W x D)	mm	210 x 845 x 645
Unit weight	kg	22

Dimensional Drawings



Cool Designs Ltd

Raising the Standards in Air Conditioning Distribution

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All UK duties are based on Cooling Indoor air temperature 22°C DB/16°C WB Outdoor air temperature 28°C DB 50% RH, high fan speed, 5 m pipe run.
Heating Indoor air temperature 21°C DB Outdoor air temperature -4°C DB 100% RH, high fan speed, 5 m pipe run. Values are based on the maximum compressor output.
Data obtained from Toshiba Air Conditioning Web Data July 2013.

Toshiba Air Conditioning - VRF Data Sheet

MMD-AP0124SPH-E

Slim ducted

Features

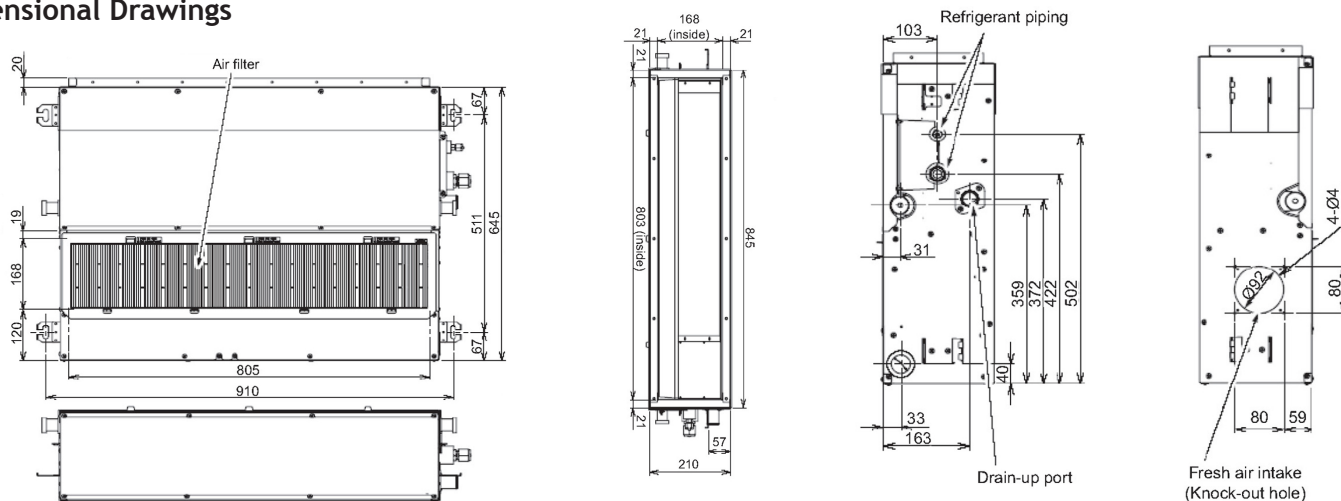
- External static pressure can be raised up to 45 Pa
- Low noise: low fan speed down to 25 dB(A)
- Fresh air intake
- Lift pump up to 550 mm lift
- Ideal for restricted ceiling voids only 210 mm high
- Base or rear return air



Technical Data

Model reference		MMD-AP0124SPH-E
Nominal cooling	kW	3.6
Nominal heating	kW	4.0
Capacity code		1.25
Power input (cool/heat)	kW	0.040
UK cooling	kW	3.46
UK sensible cooling	kW	2.60
UK heating	kW	3.24
Starting current	A	0.54
Running current	A	0.31
Suggested fuse size	A	5
Power supply	V-ph-Hz	220/240-1-50
Interconnecting cable		2-core screened 1.5 mm
Sound power H-M-L (base/rear air inlet)	dB(A)	55-52-47/42-40-38
Sound pressure H-L (base/rear air inlet)	dB(A)	38-32/29-25
Standard air flow H-L	m³/h	600-450
Standard air flow H-L	l/s	167-125
External static pressure (factory default)	Pa	5
Static pressure range	Pa	5-45 (4 steps)
Dimensions (H x W x D)	mm	210 x 845 x 645
Unit weight	kg	22

Dimensional Drawings



Cool Designs Ltd

Raising the Standards in Air Conditioning Distribution

www.cdlweb.info



All UK duties are based on Cooling Indoor air temperature 22°C DB/16°C WB Outdoor air temperature 28°C DB 50% RH, high fan speed, 5 m pipe run.
Heating Indoor air temperature 21°C DB Outdoor air temperature -4°C DB 100% RH, high fan speed, 5 m pipe run. Values are based on the maximum compressor output.
Data obtained from Toshiba Air Conditioning Web Data July 2013.

Toshiba Air Conditioning - VRF Data Sheet

MMD-AP0184SPH-E

Slim ducted

Features

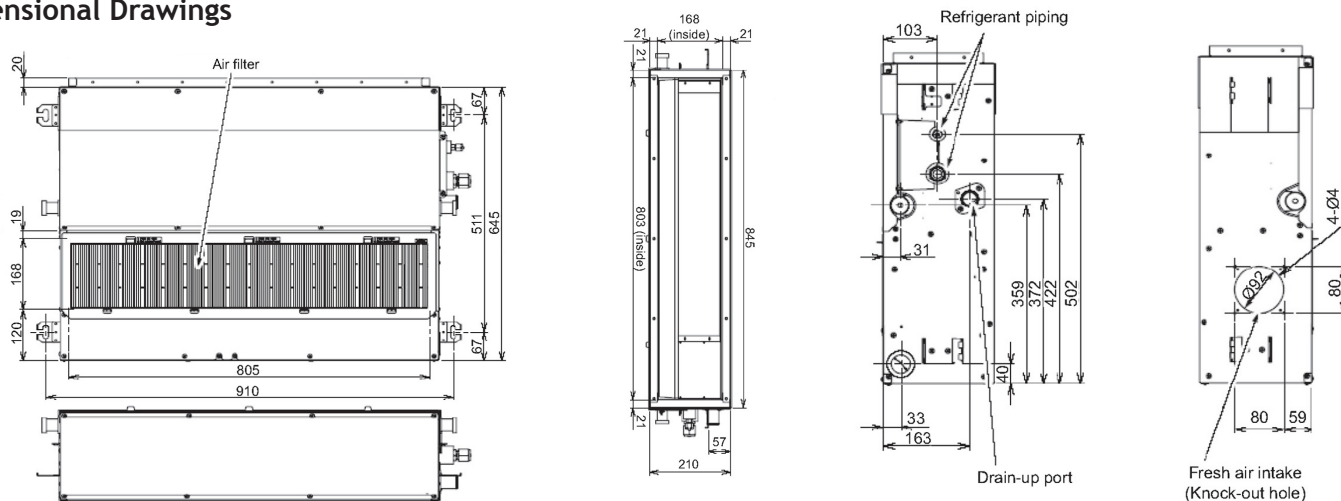
- External static pressure can be raised up to 44 Pa
- Low noise: low fan speed down to 29 dB(A)
- Fresh air intake
- Lift pump up to 550 mm lift
- Ideal for restricted ceiling voids only 210 mm high
- Base or rear return air



Technical Data

Model reference		MMD-AP0184SPH-E
Nominal cooling	kW	5.6
Nominal heating	kW	6.3
Capacity code		2.0
Power input (cool/heat)	kW	0.054
UK cooling	kW	5.38
UK sensible cooling	kW	4.04
UK heating	kW	5.10
Starting current	A	0.68
Running current	A	0.39
Suggested fuse size	A	5
Power supply	V-ph-Hz	220/240-1-50
Interconnecting cable		2-core screened 1.5 mm
Sound power H-M-L (base/rear air inlet)	dB(A)	55-52-48/48-46-44
Sound pressure H-L (base/rear air inlet)	dB(A)	40-36/33-29
Standard air flow H-L	m³/h	780-580
Standard air flow H-L	l/s	217-161
External static pressure (factory default)	Pa	4
Static pressure range	Pa	4-44 (4 steps)
Dimensions (H x W x D)	mm	210 x 845 x 645
Unit weight	kg	23

Dimensional Drawings



Cool Designs Ltd

Raising the Standards in Air Conditioning Distribution

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All UK duties are based on Cooling Indoor air temperature 22°C DB/16°C WB Outdoor air temperature 28°C DB 50% RH, high fan speed, 5 m pipe run.
Heating Indoor air temperature 21°C DB Outdoor air temperature -4°C DB 100% RH, high fan speed, 5 m pipe run. Values are based on the maximum compressor output.
Data obtained from Toshiba Air Conditioning Web Data July 2013.

Toshiba Air Conditioning - VRF Data Sheet

MMD-AP0056SPH-E

Slim ducted

Features

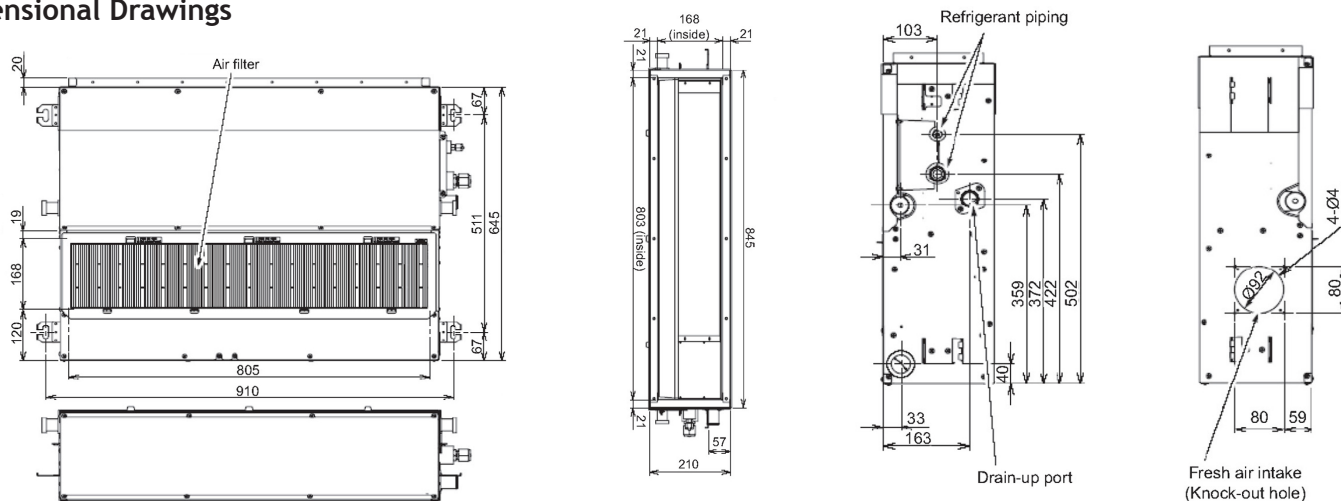
- External static pressure can be raised up to 50 Pa
- Low noise: low fan speed down to 24 dB(A)
- Fresh air intake
- Lift pump up to 550 mm lift
- Ideal for restricted ceiling voids only 210 mm high
- Base or rear return air
- This model can only be used with the new e-series VRF outdoor units



Technical Data

Model reference		MMD-AP0056SPH-E
Nominal cooling	kW	1.7
Nominal heating	kW	1.9
Capacity code		0.6
UK cooling	kW	1.5
UK sensible cooling	kW	1.3
UK heating	kW	1.3
Starting current	A	0.51
Running current	A	0.29
Suggested fuse size	A	5
Power supply	V-ph-Hz	220/240-1-50
Interconnecting cable		2-core screened 1.5 mm
Sound power H-M-L (base/rear air inlet)	dB(A)	42-41-39/50-48-45
Sound pressure H-M-L (base/rear air inlet)	dB(A)	35-33-30/27-26-24
Standard air flow H-L	m³/h	490-400
Standard air flow H-L	l/s	137-112
External static pressure (factory default)	Pa	6
Static pressure range	Pa	10-50 (4 steps)
Dimensions (H x W x D)	mm	210 x 845 x 645
Unit weight	kg	22

Dimensional Drawings



Cool Designs Ltd

Raising the Standards in Air Conditioning Distribution

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All UK duties are based on Cooling Indoor air temperature 22°C DB/16°C WB Outdoor air temperature 28°C DB 50% RH, high fan speed, 5 m pipe run.
Heating Indoor air temperature 21°C DB Outdoor air temperature -4°C DB 100% RH, high fan speed, 5 m pipe run. Values are based on the maximum compressor output.
Data obtained from Toshiba Air Conditioning Web Data July 2013.

Toshiba Air Conditioning - VRF Data Sheet

MCY-MHP0406HT-E

Mini SMMS - Single-Fan Heat Pump Condensing Unit

Features

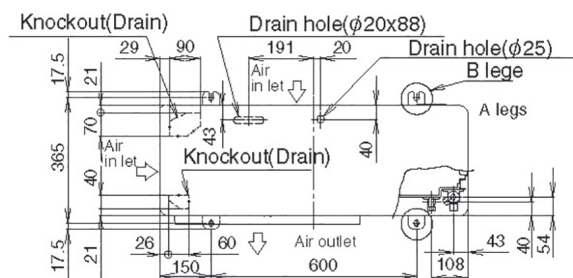
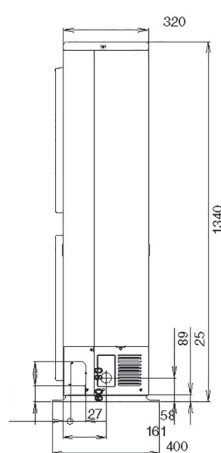
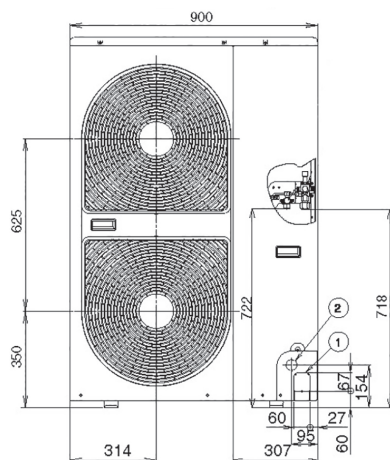
- Compact chassis: Outdoor unit height greatly reduced and easier to install
- High-efficiency DC twin rotary inverter compressor
- Compact and lightweight
- Reduction in refrigerant charge, reducing the impact on global warming



Technical Data

Model reference		MCY-MHP0406HT-E
Nominal cooling	kW	12.1
Nominal heating	kW	12.5
Capacity code		4
Min./max. capacities connectable	kW	3.2/5.2
Power input (cool/heat)	kW	3.24/2.83
UK cooling	kW	11.59
UK sensible cooling	kW	8.70
UK heating	kW	10.12
SEER Value (Office Profile)		7.10
SCOP Value (Office Profile)		3.56
Starting current	A	1
Running current (cool/heat)	A	13.2/12.3
Suggested fuse size	A	20
Power supply	V-ph-Hz	220/240-1-50
Interconnecting cable		2-core screened 1.5 mm
Sound power (cool/heat)	dB(A)	73/73
Sound pressure (cool/heat)	dB(A)	54/57
Standard air flow	m ³ /h	4020
Standard air flow	l/s	1117
Maximum indoor units connectable		8
Dimensions (H x W x D)	mm	910 x 990 x 390
Unit weight	kg	100
R410A refrigerant base charge	kg	3.3

Dimensional Drawings



Cool Designs Ltd

Raising the Standards in Air Conditioning Distribution

www.cdlweb.info



All UK duties are based on Cooling Indoor air temperature 22°C DB/16°C WB Outdoor air temperature 28°C DB 50% RH, high fan speed, 5 m pipe run.
Heating Indoor air temperature 21°C DB Outdoor air temperature -4°C DB 100% RH, high fan speed, 5 m pipe run. Values are based on the maximum compressor output.
Data obtained from Toshiba Air Conditioning Web Data July 2013.

Toshiba Air Conditioning - VRF Data Sheet

MCY-MHP0506HT-E

Mini SMMS - Single-Fan Heat Pump Condensing Unit

Features

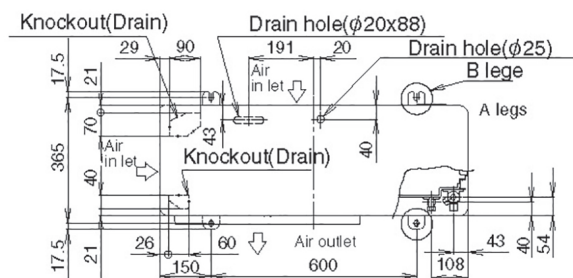
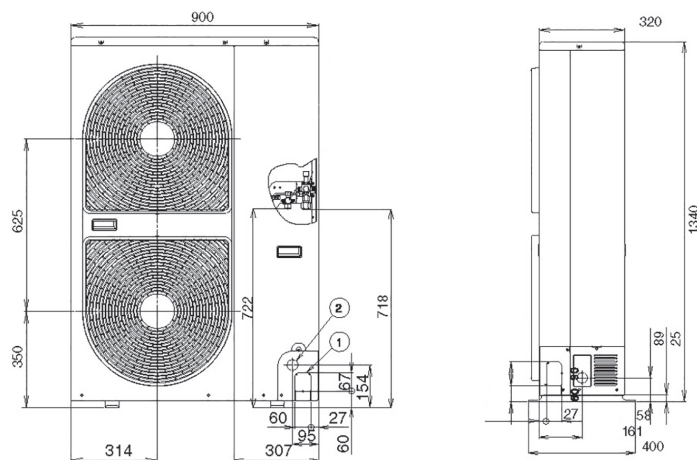
- Compact chassis: Outdoor unit height greatly reduced and easier to install
- High-efficiency DC twin rotary inverter compressor
- Compact and lightweight
- Reduction in refrigerant charge, reducing the impact on global warming



Technical Data

Model reference		MCY-MHP0506HT-E
Nominal cooling	kW	14.0
Nominal heating	kW	16.0
Capacity code		5
Min./max. capacities connectable	kW	4.0/6.5
Power input (cool/heat)	kW	3.94/3.86
UK cooling	kW	13.42
UK sensible cooling	kW	10.06
UK heating	kW	12.96
SEER Value (Office Profile)		6.73
SCOP Value (Office Profile)		3.51
Starting current	A	1
Running current (cool/heat)	A	17.1/16.8
Suggested fuse size	A	25
Power supply	V-ph-Hz	220/240-1-50
Interconnecting cable		2-core screened 1.5 mm
Sound power (cool/heat)	dB(A)	73/74
Sound pressure (cool/heat)	dB(A)	54/58
Standard air flow	m ³ /h	4260
Standard air flow	l/s	1183
Maximum indoor units connectable		10
Dimensions (H x W x D)	mm	910 x 990 x 390
Unit weight	kg	100
R410A refrigerant base charge	kg	3.3

Dimensional Drawings



Cool Designs Ltd

Raising the Standards in Air Conditioning Distribution

www.cdlweb.info



All UK duties are based on Cooling Indoor air temperature 22°C DB/16°C WB Outdoor air temperature 28°C DB 50% RH, high fan speed, 5 m pipe run.
Heating Indoor air temperature 21°C DB Outdoor air temperature -4°C DB 100% RH, high fan speed, 5 m pipe run. Values are based on the maximum compressor output.
Data obtained from Toshiba Air Conditioning Web Data July 2013.

Toshiba Air Conditioning - RAS Data Sheet

RAS-3M18U2AVG-E Multi-Split Outdoor Unit

Features

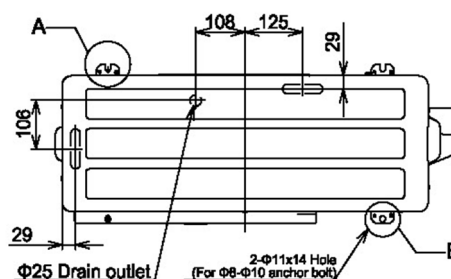
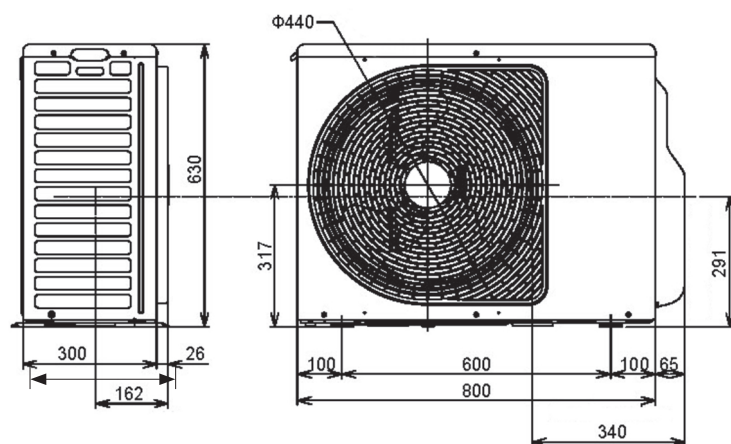
- Wide range of indoor units available for use with refrigerant R32
- Wide operating range (cooling mode -10°C to +46°C)
- Vertical pipe lengths up to 10 metres
- Compact size
- Superior reliability due to Toshiba's unique inverter compressor



Technical Data

Model reference		RAS-3M18U2AVG-E
Nominal cooling	kW	5.2
Nominal heating	kW	6.8
Sound power (high)	dB(A)	63
Sound pressure (high)	dB(A)	50
Dimensions (H x W x D)	mm	630 x 800 x 300
Unit weight	kg	46
Power supply	V-ph-Hz	220/240-1-50
Interconnecting cable per indoor unit		3-core + earth
Suggested fuse size	A	16
Maximum operating current (cooling)	A	8.79
Operating range, cooling	°C	-10-46
Operating range, heating	°C	-20-24
Minimum number of indoor units		2
Maximum number of indoor units		3
Pipe sizes, unit A (liquid-suction)	inch	1/4-1/2
Pipe sizes, unit B (liquid-suction)	inch	1/4-3/8
Pipe sizes, unit C (liquid-suction)	inch	1/4-3/8
Pipe lengths per unit (min./max.)	m	2-25
Maximum pipe length	m	50
Maximum height difference	m	10
Pre-charge pipe length	m	50
Additional refrigerant - factory charge	g/m - kg	N/A - 1.05

Dimensional Drawings



Cool Designs Ltd

Raising the Standards in Air Conditioning Distribution

www.cdlweb.info



All UK duties are based on Cooling Indoor air temperature 23°C DB/16°C WB Outdoor air temperature 29°C DB 50% RH, high fan speed, 5 m pipe run.
Heating Indoor air temperature 20°C DB Outdoor air temperature -5°C DB 100% RH, high fan speed, 5 m pipe run. Values are based on the maximum compressor output.
Data obtained from Toshiba Air Conditioning July 2018.

Toshiba Air Conditioning - RAS Data Sheet

RAS-3M26U2AVG-E Multi-Split Outdoor Unit

Features

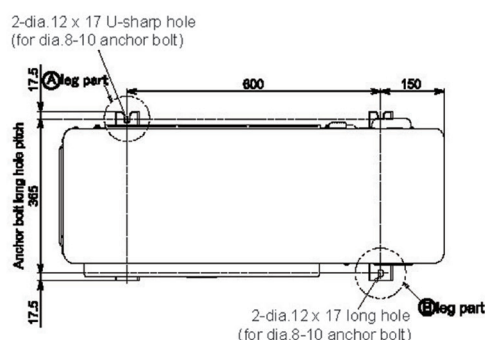
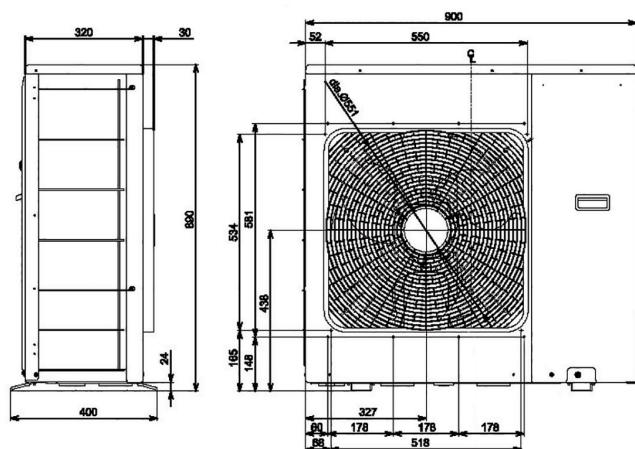
- Wide range of indoor units available for use with refrigerant R32
- Wide operating range (cooling mode -10°C to +46°C)
- Vertical pipe lengths up to 15 metres
- Compact size
- Superior reliability due to Toshiba's unique inverter compressor



Technical Data

Model reference		RAS-3M26U2AVG-E
Nominal cooling	kW	7.5
Nominal heating	kW	9.0
Sound power (high)	dB(A)	64
Sound pressure (high)	dB(A)	49
Dimensions (H x W x D)	mm	890 x 900 x 320
Unit weight	kg	72
Power supply	V-ph-Hz	220/240-1-50
Interconnecting cable per indoor unit		3-core + earth
Suggested fuse size	A	16
Maximum operating current (cooling)	A	11.67
Operating range, cooling	°C	-10-46
Operating range, heating	°C	-15-24
Minimum number of indoor units		2
Maximum number of indoor units		3
Pipe sizes, unit A (liquid-suction)	inch	1/4-1/2
Pipe sizes, unit B (liquid-suction)	inch	1/4-1/2
Pipe sizes, unit C (liquid-suction)	inch	1/4-3/8
Pipe lengths per unit (min./max.)	m	3-25
Maximum pipe length	m	70
Maximum height difference	m	15
Pre-charge pipe length	m	40
Additional refrigerant - factory charge	g/m - kg	20 - 1.92

Dimensional Drawings



Cool Designs Ltd

Raising the Standards in Air Conditioning Distribution

www.cdlweb.info



All UK duties are based on Cooling Indoor air temperature 23°C DB/16°C WB Outdoor air temperature 29°C DB 50% RH, high fan speed, 5 m pipe run.
Heating Indoor air temperature 20°C DB Outdoor air temperature -5°C DB 100% RH, high fan speed, 5 m pipe run. Values are based on the maximum compressor output.
Data obtained from Toshiba Air Conditioning July 2018.

Toshiba Air Conditioning - RAS Data Sheet

RAS-5M34U2AVG-E Multi-Split Outdoor Unit

Features

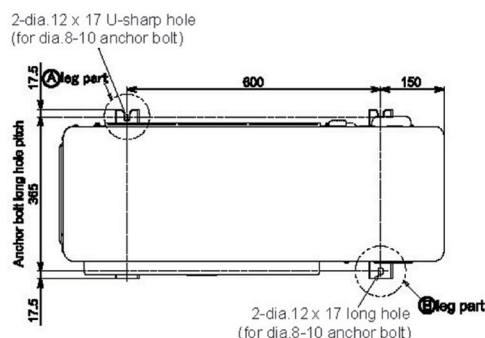
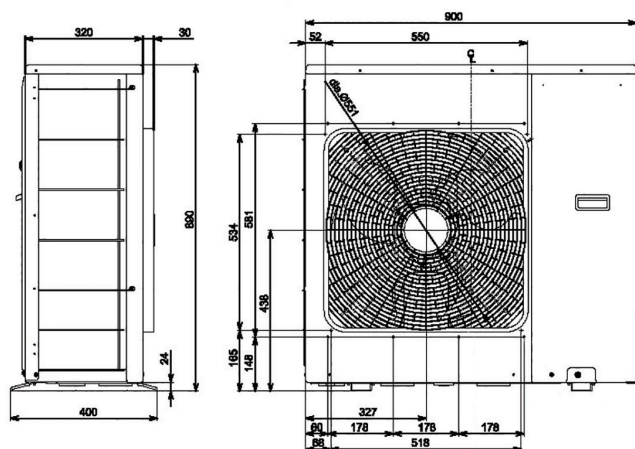
- Wide range of indoor units available for use with refrigerant R32
- Wide operating range (cooling mode -10°C to +46°C)
- Vertical pipe lengths up to 15 metres
- Compact size
- Superior reliability due to Toshiba's unique inverter compressor



Technical Data

Model reference		RAS-5M34U2AVG-E
Nominal cooling	kW	10.0
Nominal heating	kW	12.0
Sound power (high)	dB(A)	68
Sound pressure (high)	dB(A)	55
Dimensions (H x W x D)	mm	890 x 900 x 320
Unit weight	kg	78
Power supply	V-ph-Hz	220/240-1-50
Interconnecting cable per indoor unit		3-core + earth
Suggested fuse size	A	20
Maximum operating current (cooling)	A	13.64
Operating range, cooling	°C	-10-46
Operating range, heating	°C	-15-24
Minimum number of indoor units		2
Maximum number of indoor units		5
Pipe sizes, unit A and B (liquid-suction)	inch	1/4-1/2
Pipe sizes, unit C, D and E (liquid-suction)	inch	1/4-3/8
Pipe lengths per unit (min./max.)	m	3-25
Maximum pipe length	m	80
Maximum height difference	m	15
Pre-charge pipe length	m	40
Additional refrigerant - factory charge	g/m - kg	20 - 2.39

Dimensional Drawings



Cool Designs Ltd

Raising the Standards in Air Conditioning Distribution

www.cdlweb.info



All UK duties are based on Cooling Indoor air temperature 23°C DB/16°C WB Outdoor air temperature 29°C DB 50% RH, high fan speed, 5 m pipe run.
Heating Indoor air temperature 20°C DB Outdoor air temperature -5°C DB 100% RH, high fan speed, 5 m pipe run. Values are based on the maximum compressor output.
Data obtained from Toshiba Air Conditioning July 2018.

Toshiba Air Conditioning - RAV-RM Data Sheet

RAV-RM561BTP-E

Ducted

Features

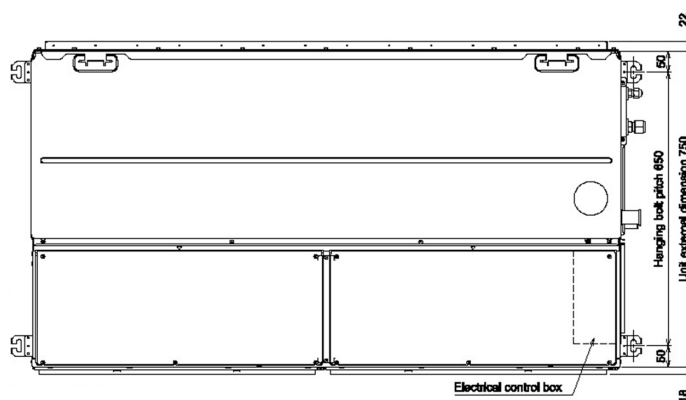
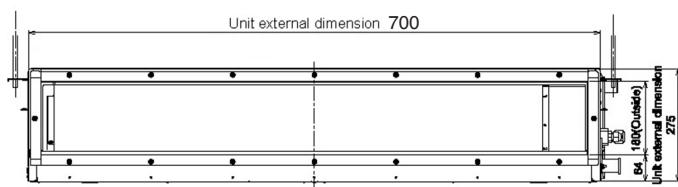
- Redesigned for use with refrigerant R32
- External static pressure can be raised up to 120 Pa
- Lift pump up to 850 mm lift or gravity drain
- Low noise: low fan speed down to 25 dB(A)
- Ideal for restricted ceiling voids only 275 mm high
- Base or rear return air with filter



Technical Data

Model reference			RAV-RM561BTP-E
Nominal	Cooling Capacity	kW	5.0
	Heating Capacity	kW	5.3
	EER/COP	W/W	2.73/3.27
UK	Cooling Total/Sensible	kW	4.80/3.60
	Heating	kW	3.79
Cooling EN14825	Range Min. - Max.	kW	1.5 - 5.6
	Power Input	kW	1.83
	Pdesign	kW	5.0
	SEER/Energy Efficiency Class		5.28/A
Heating EN14825	Seasonal Energy Consumption	kWh/a	365
	Range Min. - Max.	kW	1.5 - 6.3
	Power Input	kW	1.62
	Pdesign	kW	2.80
	SCOP/Energy Efficiency Class		4.08/A+
Air Flow	High - Medium - Low	l/s	222 - 175 - 133
	High - Medium - Low	m³/h	800 - 630 - 480
External Static Pressure	Standard (Upper - Lower)	Pa	30 (120 - 30)
Sound	Pressure High - Medium - Low	dB(A)	33 - 29 - 25
	Power High - Medium - Low	dB(A)	48 - 44 - 40
Unit	Height x Width x Depth	mm	275 x 700 x 750
	Weight	kg	23
Pipe Connection	Flare Connections (gas - liquid)	inch	1/2 - 1/4
	Drain Pipe Connection Upper - Lower	mm	VP25 - VP25
	Lift Pump Drain Height from Unit Base	mm	< 850
Remote Controller			RBC-AMT32E
Power Cable			Outdoor to Indoor
			3 core + earth

Dimensional Drawings



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All UK duties are based on Cooling Indoor air temperature 22°C DB/16°C WB Outdoor air temperature 28°C DB 50% RH, high fan speed, 5 m pipe run.
Heating Indoor air temperature 20°C DB Outdoor air temperature -5°C DB 100% RH, high fan speed, 5 m pipe run. Values are based on the maximum compressor output.
Data obtained from Toshiba Air Conditioning Published Data July 2018.

Toshiba Air Conditioning - RAV-RM Data Sheet

RAV-RM801BTP-E

Ducted

Features

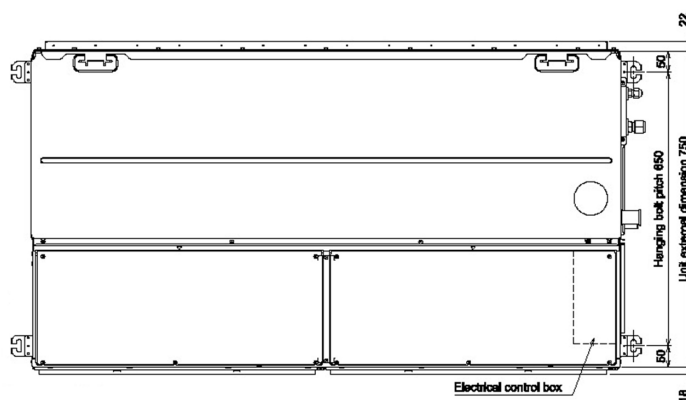
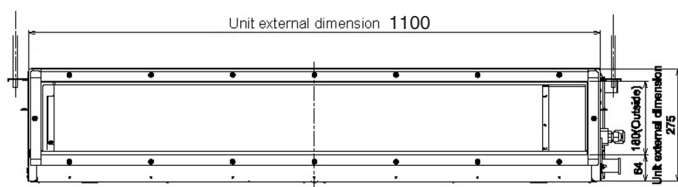
- Redesigned for use with refrigerant R32
- External static pressure can be raised up to 120 Pa
- Lift pump up to 850 mm lift or gravity drain
- Low noise: low fan speed down to 26 dB(A)
- Ideal for restricted ceiling voids only 275 mm high
- Base or rear return air with filter



Technical Data

Model reference			RAV-RM801BTP-E
Nominal	Cooling Capacity	kW	6.7
	Heating Capacity	kW	7.7
	EER/COP	W/W	2.82/3.32
UK	Cooling Total/Sensible	kW	6.30/4.90
	Heating	kW	5.51
Cooling EN14825	Range Min. - Max.	kW	1.5 - 7.4
	Power Input	kW	2.38
	Pdesign	kW	6.7
	SEER/Energy Efficiency Class		5.2/A
Heating EN14825	Seasonal Energy Consumption	kWh/a	466
	Range Min. - Max.	kW	1.5 - 9.0
	Power Input	kW	2.32
	Pdesign	kW	5.10
	SCOP/Energy Efficiency Class		4.13/A+
Air Flow	High - Medium - Low	l/s	333 - 258 - 200
	High - Medium - Low	m³/h	1200 - 930 - 720
External Static Pressure	Standard (Upper - Lower)	Pa	30 (120 - 30)
Sound	Pressure High - Medium - Low	dB(A)	34 - 30 - 26
	Power High - Medium - Low	dB(A)	49 - 45 - 41
Unit	Height x Width x Depth	mm	275 x 1100 x 750
	Weight	kg	30
Pipe Connection	Flare Connections (gas - liquid)	inch	5/8 - 3/8
	Drain Pipe Connection Upper - Lower	mm	VP25 - VP25
	Lift Pump Drain Height from Unit Base	mm	< 850
Remote Controller			RBC-AMT32E
Power Cable			Outdoor to Indoor
			3 core + earth

Dimensional Drawings



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All UK duties are based on Cooling Indoor air temperature 22°C DB/16°C WB Outdoor air temperature 28°C DB 50% RH, high fan speed, 5 m pipe run.
Heating Indoor air temperature 20°C DB Outdoor air temperature -5°C DB 100% RH, high fan speed, 5 m pipe run. Values are based on the maximum compressor output.
Data obtained from Toshiba Air Conditioning Published Data July 2018.

Toshiba Air Conditioning - RAV-GM Data Sheet

RAV-GM2241AT8-E Outdoor Unit

Features

- Redesigned for use with refrigerant R32
- New compressor design
- Reduced refrigerant charge - 5 kg
- Flexible, can be utilised for twin, triple and quad indoor applications
- Compact size

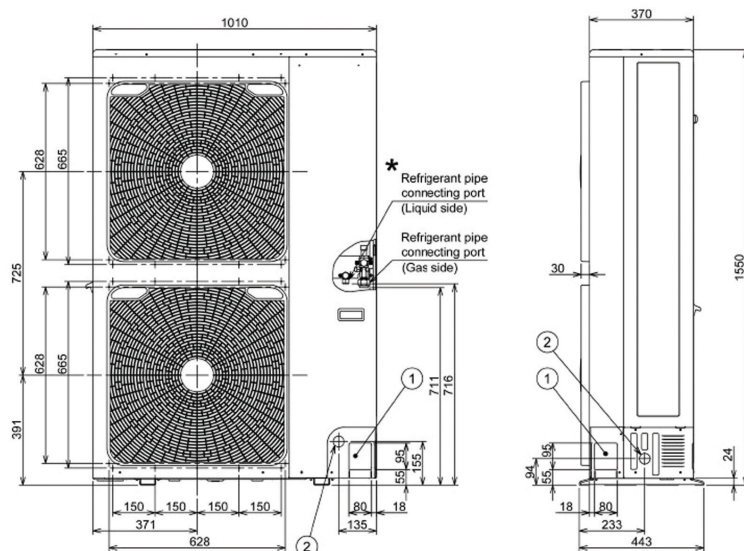


Technical Data

Model reference		RAV-GM2241AT8-E
Nominal cooling	kW	19.0
Nominal heating	kW	22.4
Maximum air flow	m ³ /h	9150
Maximum air flow	l/s	2541
Sound power (cool/heat)	dB(A)	76/76
Sound pressure (cool/heat)	dB(A)	58/60
Dimensions (H x W x D)	mm	1550 x 1010 x 370
Unit weight	kg	142
Power supply	V-ph-Hz	380/415-3-50
Interconnecting cable		3 core + earth
Suggested fuse size	A	16
Maximum operating current (cooling)	A	-*
Operating range, cooling	°C	-15 to 46
Operating range, heating	°C	-27 to 15
Pipe sizes (liquid - suction)	inch	1/2 - 1-1/8
Minimum/maximum pipe length	m	5/60
Maximum height difference	m	30
Pre-charge pipe length	m	30

* Waiting for published data

Dimensional Drawings



Cool Designs Ltd

Raising the Standards in Air Conditioning Distribution

www.cdlweb.info



All UK duties are based on Cooling Indoor air temperature 22°C DB/16°C WB Outdoor air temperature 28°C DB 50% RH, high fan speed, 5 m pipe run.
Heating Indoor air temperature 20°C DB Outdoor air temperature -5°C DB 100% RH, high fan speed, 5 m pipe run. Values are based on the maximum compressor output.
Data obtained from Toshiba Air Conditioning Published Data September 2019.

Toshiba Air Conditioning - RAV-GP Data Sheet

RAV-GP1401AT-E Outdoor Unit

Features

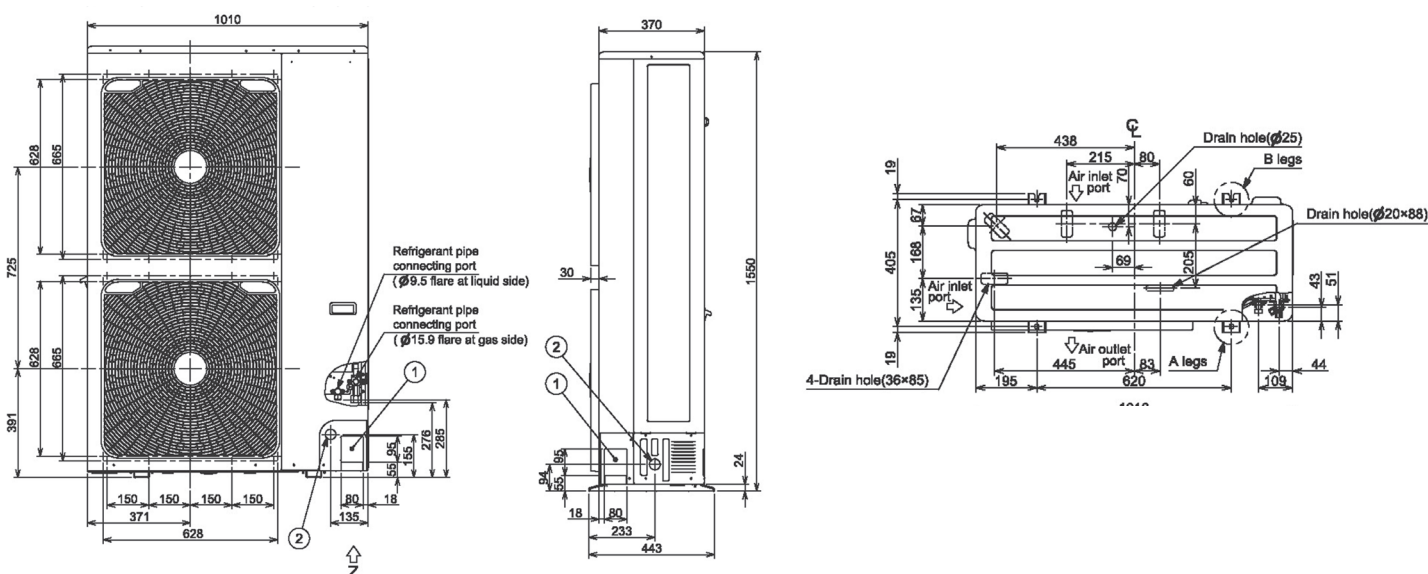
- Redesigned for use with refrigerant R32
- Wide operating range (cooling mode -15°C to +52°C)
- Auto-diagnostic function
- Flexible, can be utilised for single, twin, triple and quad indoor applications
- Compact size



Technical Data

Model reference			RAV-GP1401AT-E
Nominal	Cooling Capacity	kW	12.5
	Heating Capacity	kW	14.0
Operating Range	Cooling/Heating	°C	-15 to 52/-27 to 15
Air Flow	High	m³/h - l/s	6960 - 1934
Sound	Pressure High Cooling/Heating	dB(A)	50/51
	Power High Cooling/Heating	dB(A)	67/68
Unit	Height x Width x Depth	mm	1550 x 1010 x 370
	Weight	kg	104
	Pipe Connection	Flare Connections (gas - liquid)	inch 5/8 - 3/8
Refrigerant R32	Min.-Max. Length	m	3-75
	Maximum Height Difference	m	±30
	Drain Port Connection	mm	16
	Base Charge/Chargeless Length	kg/m	3.1/30
Run Current	Additional Charge Liquid Side	g/m	35
	Maximum	A	14.55
Power Cable	Outdoor to Indoor		3 core + earth
Power Supply	Suggested Fuse Size	V/ph/Hz-A	220-240/1/50-25

Dimensional Drawings



Cool Designs Ltd

Raising the Standards in Air Conditioning Distribution

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All UK duties are based on Cooling Indoor air temperature 22°C DB/16°C WB Outdoor air temperature 28°C DB 50% RH, high fan speed, 5 m pipe run.
Heating Indoor air temperature 20°C DB Outdoor air temperature -5°C DB 100% RH, high fan speed, 5 m pipe run. Values are based on the maximum compressor output.
Data obtained from Toshiba Air Conditioning Published Data July 2018.

Heatgains using File:- UPDATED PLOT 2.CYC (07/07/2021)

General Information

Project Reference	Angel Meadows Plot 2
Areas Calculated	Selected Rooms

Temp Difference for Air Volume Calc	12.0 C	Temperature Type	DRT
Building Weight	LIGHTWEIGHT	Plant Hours	24 hrs
		Diversity On People	100%
Diversity On Lighting	100%	Diversity On Equipment	100%

This Report includes:
For each Room - Numeric, Summary

Month	Day	Maximum °C	Minimum °C	Wet Bulb °C
July	21	26.0	12.5	17.0

Heatgains for Room 1

NAME: Apt. Type 1A - Lounge

Zone: 1

Copies: 1

DATE: Jul 21

hr	Glazing		Fabric W	People W	Lights +Equip W	Infil W	Sens. Vent W	Latent Vent W	Total Sens. W	Total W
	Solar W	Trans W								
1	4	-60	81	130	318	-68	---	---	404	504
2	4	-67	90	130	318	-76	---	---	400	500
3	4	-72	90	130	318	-81	---	---	390	490
4	4	-75	77	130	318	-84	---	---	370	470
5	47	-76	45	130	318	-86	---	---	379	479
6	88	-74	-3	130	318	-83	---	---	377	477
7	126	-68	-10	130	318	-77	---	---	421	521
8	158	-59	-17	130	318	-67	---	---	464	564
9	188	-48	-24	130	318	-54	---	---	511	611
10	212	-35	-32	130	318	-39	---	---	554	654
11	225	-22	-38	130	318	-25	---	---	588	688
12	567	-11	-43	130	318	-12	---	---	949	1049
13	865	-2	-47	130	318	-2	---	---	1262	1362
14	1084	4	-50	130	318	5	---	---	1491	1591
15	1199	6	-16	130	318	7	---	---	1644	1744
16	1194	5	10	130	318	6	---	---	1664	1764
17	1060	2	26	130	318	2	---	---	1539	1639
18	789	-3	34	130	318	-3	---	---	1265	1365
19	393	-10	37	130	318	-11	---	---	858	958
20	4	-17	35	130	318	-19	---	---	450	550
21	4	-26	29	130	318	-29	---	---	426	526
22	4	-35	51	130	318	-39	---	---	429	529
23	4	-44	68	130	318	-50	---	---	427	527
24	4	-53	79	---	---	-59	---	---	-30	-30

Peak Total Gain		1764 at 16 hrs	
		= 20.5 W/m ³	
Air Quantity Required		0.111 m ³ /s at 13.0 C	
		= 4.9 ac/h	= 55.7 l/s/p
Room Temperature		25.0 °C	
Humidity		50 %	
Latent Gain:		100 W	
People			
Infiltration		-26 W	
Total		74 W	

Note:- Total W column includes latent gains for people.

Heatgains for Room 2

NAME: Apt. Type 1A - Bedroom 1	Zone: 1	Copies: 1	DATE: Jul 21
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hr	Glazing		Fabric W	People W	Lights +Equip W	Infil W	Sens. Vent W	Latent Vent W	Total Sens. W	Total W
	Solar W	Trans W								
1	3	-42	70	130	120	-26	---	---	255	355
2	3	-46	70	130	120	-28	---	---	248	348
3	3	-50	65	130	120	-30	---	---	237	337
4	3	-52	52	130	120	-32	---	---	221	321
5	33	-52	33	130	120	-32	---	---	231	331
6	61	-51	13	130	120	-31	---	---	242	342
7	88	-47	11	130	120	-29	---	---	272	372
8	110	-41	9	130	120	-25	---	---	302	402
9	130	-33	6	130	120	-20	---	---	333	433
10	146	-24	4	130	120	-15	---	---	361	461
11	156	-16	2	130	120	-9	---	---	382	482
12	393	-8	0	130	120	-5	---	---	630	730
13	598	-1	-1	130	120	-1	---	---	845	945
14	750	3	-2	130	120	2	---	---	1002	1102
15	830	4	0	130	120	3	---	---	1086	1186
16	827	3	3	130	120	2	---	---	1085	1185
17	734	1	7	130	120	1	---	---	993	1093
18	546	-2	12	130	120	-1	---	---	805	905
19	272	-7	17	130	120	-4	---	---	528	628
20	3	-12	22	130	120	-7	---	---	255	355
21	3	-18	26	130	120	-11	---	---	249	349
22	3	-24	43	130	120	-15	---	---	256	356
23	3	-30	56	130	120	-19	---	---	259	359
24	3	-36	66	---	---	-22	---	---	10	10

Peak Total Gain	1186 at 15 hrs = 35.6 W/m ³
Air Quantity Required	0.073 m ³ /s at 13.0 C = 8.6 ac/h = 36.4 l/s/p
Room Temperature	25.0 °C
Humidity	50 %
Latent Gain: People	100 W
Infiltration	-10 W
Total	90 W

Note:- Total W column includes latent gains for people.

Heatgains for Room 5

NAME: Apt. Type 1C - Lounge

Zone: 1

Copies: 1

DATE: Jul 21

hr	Glazing		Fabric W	People W	Lights +Equip W	Infil W	Sens. Vent W	Latent Vent W	Total Sens. W	Total W
	Solar W	Trans W								
1	3	-60	93	130	294	-63	---	---	397	497
2	3	-67	104	130	294	-70	---	---	395	495
3	3	-72	104	130	294	-75	---	---	385	485
4	3	-75	89	130	294	-78	---	---	363	463
5	574	-76	52	130	294	-79	---	---	896	996
6	952	-74	0	130	294	-77	---	---	1225	1325
7	1073	-68	-7	130	294	-71	---	---	1352	1452
8	1012	-59	-14	130	294	-62	---	---	1302	1402
9	823	-48	-21	130	294	-50	---	---	1129	1229
10	549	-35	-28	130	294	-36	---	---	874	974
11	226	-22	-34	130	294	-23	---	---	570	670
12	229	-11	-40	130	294	-11	---	---	592	692
13	224	-2	-44	130	294	-2	---	---	601	701
14	211	4	-46	130	294	4	---	---	597	697
15	187	6	-22	130	294	6	---	---	601	701
16	158	5	-2	130	294	5	---	---	590	690
17	126	2	12	130	294	2	---	---	566	666
18	88	-3	21	130	294	-3	---	---	527	627
19	46	-10	28	130	294	-10	---	---	479	579
20	3	-17	31	130	294	-18	---	---	423	523
21	3	-26	31	130	294	-27	---	---	406	506
22	3	-35	57	130	294	-36	---	---	412	512
23	3	-44	77	130	294	-46	---	---	414	514
24	3	-53	90	---	---	-55	---	---	-15	-15

Peak Total Gain		1452 at 7 hrs	
		= 18.0 W/m ³	
Air Quantity Required		0.091 m ³ /s at 13.0 C	
		= 4.3 ac/h	= 45.3 l/s/p
Room Temperature		25.0 °C	
Humidity		50 %	
Latent Gain:		100 W	
People			
Infiltration		-24 W	
Total		76 W	

Note:- Total W column includes latent gains for people.

Heatgains for Room 6

NAME: Apt. Type 1C - Bedroom 1

Zone: 1

Copies: 1

DATE: Jul 21

hr	Glazing		Fabric W	People W	Lights +Equip W	Infil W	Sens. Vent W	Latent Vent W	Total Sens. W	Total W
	Solar W	Trans W								
1	2	-42	17	130	119	-25	---	---	201	301
2	2	-46	16	130	119	-28	---	---	193	293
3	2	-50	15	130	119	-30	---	---	186	286
4	2	-52	12	130	119	-32	---	---	180	280
5	398	-52	7	130	119	-32	---	---	570	670
6	659	-51	2	130	119	-31	---	---	827	927
7	743	-47	-1	130	119	-29	---	---	916	1016
8	701	-41	-3	130	119	-25	---	---	881	981
9	570	-33	-6	130	119	-20	---	---	760	860
10	380	-24	-8	130	119	-15	---	---	582	682
11	156	-16	-10	130	119	-9	---	---	370	470
12	159	-8	-12	130	119	-5	---	---	383	483
13	155	-1	-13	130	119	-1	---	---	389	489
14	146	3	-14	130	119	2	---	---	385	485
15	130	4	10	130	119	3	---	---	395	495
16	109	3	28	130	119	2	---	---	391	491
17	87	1	36	130	119	1	---	---	374	474
18	61	-2	37	130	119	-1	---	---	343	443
19	32	-7	33	130	119	-4	---	---	303	403
20	2	-12	25	130	119	-7	---	---	256	356
21	2	-18	14	130	119	-11	---	---	237	337
22	2	-24	17	130	119	-15	---	---	229	329
23	2	-30	19	130	119	-19	---	---	221	321
24	2	-36	19	---	---	-22	---	---	-38	-38

Peak Total Gain		1016 at 7 hrs	
		= 30.2 W/m ³	
Air Quantity Required		0.061 m ³ /s at 13.0 C	
		= 7.3 ac/h	= 30.7 l/s/p
Room Temperature		25.0 °C	
Humidity		50 %	
Latent Gain:		100 W	
People			
Infiltration		-10 W	
Total		90 W	

Note:- Total W column includes latent gains for people.

Heatgains for Room 9

NAME: Apt. Type 2A - Lounge

Zone: 1

Copies: 1

DATE: Jul 21

hr	Glazing		Fabric W	People W	Lights +Equip W	Infil W	Sens. Vent W	Latent Vent W	Total Sens. W	Total W
	Solar W	Trans W								
1	4	-40	31	260	299	-64	---	---	490	690
2	4	-44	30	260	299	-71	---	---	479	679
3	4	-47	26	260	299	-76	---	---	466	666
4	4	-49	18	260	299	-79	---	---	453	653
5	33	-50	6	260	299	-80	---	---	467	667
6	60	-48	-6	260	299	-78	---	---	486	686
7	85	-44	-8	260	299	-72	---	---	519	719
8	105	-39	-9	260	299	-62	---	---	554	754
9	125	-31	-11	260	299	-50	---	---	591	791
10	140	-23	-12	260	299	-37	---	---	626	826
11	149	-15	-14	260	299	-24	---	---	656	856
12	372	-7	-15	260	299	-11	---	---	897	1097
13	565	-2	-16	260	299	-2	---	---	1105	1305
14	708	2	-16	260	299	4	---	---	1257	1457
15	783	3	-15	260	299	6	---	---	1337	1537
16	780	3	-13	260	299	5	---	---	1335	1535
17	693	1	-10	260	299	2	---	---	1245	1445
18	516	-2	-6	260	299	-3	---	---	1064	1264
19	258	-7	-3	260	299	-10	---	---	798	998
20	4	-12	0	260	299	-18	---	---	534	734
21	4	-17	3	260	299	-27	---	---	522	722
22	4	-23	14	260	299	-37	---	---	517	717
23	4	-29	22	260	299	-47	---	---	510	710
24	4	-35	28	---	---	-56	---	---	-57	-57

Peak Total Gain		1537 at 15 hrs	
		= 17.6 W/m ³	
Air Quantity Required		0.090 m ³ /s at 13.0 C	
		= 4.2 ac/h = 22.4 l/s/p	
Room Temperature		25.0 °C	
Humidity		50 %	
Latent Gain:		200 W	
People			
Infiltration		-24 W	
Total		176 W	

Note:- Total W column includes latent gains for people.

Heatgains for Room 10

NAME: Apt. Type 2A - Bedroom 1

Zone: 1

Copies: 1

DATE: Jul 21

hr	Glazing		Fabric W	People W	Lights +Equip W	Infil W	Sens. Vent W	Latent Vent W	Total Sens. W	Total W
	Solar W	Trans W								
1	2	-21	43	130	151	-32	---	---	273	373
2	2	-23	43	130	151	-36	---	---	268	368
3	2	-25	40	130	151	-38	---	---	259	359
4	2	-26	31	130	151	-40	---	---	248	348
5	17	-26	18	130	151	-41	---	---	249	349
6	31	-25	3	130	151	-40	---	---	251	351
7	44	-23	2	130	151	-36	---	---	267	367
8	55	-20	0	130	151	-32	---	---	284	384
9	65	-16	-2	130	151	-25	---	---	303	403
10	73	-12	-3	130	151	-19	---	---	321	421
11	78	-8	-5	130	151	-12	---	---	335	435
12	196	-4	-6	130	151	-6	---	---	462	562
13	298	-1	-7	130	151	-1	---	---	571	671
14	374	1	-7	130	151	2	---	---	651	751
15	414	2	-6	130	151	3	---	---	694	794
16	412	2	-4	130	151	3	---	---	693	793
17	366	0	-2	130	151	1	---	---	647	747
18	272	-1	1	130	151	-2	---	---	552	652
19	136	-3	4	130	151	-5	---	---	413	513
20	2	-6	7	130	151	-9	---	---	275	375
21	2	-9	10	130	151	-14	---	---	270	370
22	2	-12	22	130	151	-19	---	---	274	374
23	2	-15	32	130	151	-24	---	---	276	376
24	2	-18	39	---	---	-28	---	---	-5	-5

Peak Total Gain	794 at 15 hrs = 18.0 W/m ³
Air Quantity Required	0.046 m ³ /s at 13.0 C = 4.3 ac/h = 23.2 l/s/p
Room Temperature	25.0 °C
Humidity	50 %
Latent Gain:	100 W
People	-12 W
Infiltration	88 W
Total	

Note:- Total W column includes latent gains for people.

Heatgains for Room 11

NAME: Apt. Type 2A - Bedroom 2

Zone: 1

Copies: 1

DATE: Jul 21

hr	Glazing		Fabric W	People W	Lights +Equip W	Infil W	Sens. Vent W	Latent Vent W	Total Sens. W	Total W
	Solar W	Trans W								
1	2	-21	46	130	122	-26	---	---	252	352
2	2	-23	46	130	122	-29	---	---	248	348
3	2	-25	42	130	122	-31	---	---	240	340
4	2	-26	34	130	122	-32	---	---	229	329
5	17	-26	20	130	122	-33	---	---	230	330
6	31	-25	6	130	122	-32	---	---	231	331
7	44	-23	4	130	122	-29	---	---	247	347
8	55	-20	2	130	122	-26	---	---	264	364
9	65	-16	1	130	122	-21	---	---	281	381
10	73	-12	-1	130	122	-15	---	---	297	397
11	78	-8	-2	130	122	-10	---	---	310	410
12	196	-4	-3	130	122	-5	---	---	436	536
13	298	-1	-4	130	122	-1	---	---	545	645
14	374	1	-5	130	122	2	---	---	624	724
15	413	2	-4	130	122	3	---	---	666	766
16	412	2	-2	130	122	2	---	---	666	766
17	366	1	0	130	122	1	---	---	620	720
18	272	-1	3	130	122	-1	---	---	525	625
19	136	-3	6	130	122	-4	---	---	387	487
20	2	-6	9	130	122	-7	---	---	250	350
21	2	-9	12	130	122	-11	---	---	246	346
22	2	-12	24	130	122	-15	---	---	251	351
23	2	-15	35	130	122	-19	---	---	254	354
24	2	-18	42	---	---	-23	---	---	3	3

Peak Total Gain	766 at 15 hrs = 21.4 W/m ³
Air Quantity Required	0.045 m ³ /s at 13.0 C = 5.2 ac/h = 22.3 l/s/p
Room Temperature	25.0 °C
Humidity	50 %
Latent Gain: People	100 W
Infiltration	-10 W
Total	90 W

Note:- Total W column includes latent gains for people.

Heatgains for Room 15

NAME: Apt. Type 2B - Lounge

Zone: 1

Copies: 1

DATE: Jul 21

hr	Glazing		Fabric W	People W	Lights +Equip W	Infil W	Sens. Vent W	Latent Vent W	Total Sens. W	Total W
	Solar W	Trans W								
1	4	-39	-8	260	279	-60	---	---	436	636
2	4	-43	-8	260	279	-66	---	---	425	625
3	4	-46	-9	260	279	-71	---	---	417	617
4	4	-48	-10	260	279	-74	---	---	411	611
5	367	-48	-13	260	279	-75	---	---	770	970
6	607	-47	-16	260	279	-73	---	---	1009	1209
7	684	-43	-18	260	279	-67	---	---	1095	1295
8	645	-38	-19	260	279	-58	---	---	1069	1269
9	525	-30	-20	260	279	-47	---	---	966	1166
10	351	-22	-22	260	279	-34	---	---	811	1011
11	145	-14	-23	260	279	-22	---	---	625	825
12	147	-7	-24	260	279	-11	---	---	645	845
13	144	-2	-24	260	279	-2	---	---	655	855
14	136	2	-25	260	279	4	---	---	656	856
15	121	3	-12	260	279	6	---	---	657	857
16	102	3	-3	260	279	5	---	---	646	846
17	82	1	1	260	279	2	---	---	624	824
18	57	-2	1	260	279	-3	---	---	592	792
19	31	-6	-2	260	279	-9	---	---	553	753
20	4	-11	-6	260	279	-17	---	---	508	708
21	4	-17	-11	260	279	-25	---	---	489	689
22	4	-22	-10	260	279	-34	---	---	476	676
23	4	-28	-8	260	279	-43	---	---	462	662
24	4	-34	-8	---	---	-52	---	---	-90	-90

Peak Total Gain		1295 at 7 hrs	
		= 15.4 W/m ³	
Air Quantity Required		0.073 m ³ /s at 13.0 C	
		= 3.7 ac/h	= 18.3 l/s/p
Room Temperature		25.0 °C	
Humidity		50 %	
Latent Gain:		200 W	
People			
Infiltration		-23 W	
Total		177 W	

Note:- Total W column includes latent gains for people.

Heatgains for Room 16

NAME: Apt. Type 2B - Bedroom 1

Zone: 1

Copies: 1

DATE: Jul 21

hr	Glazing		Fabric W	People W	Lights +Equip W	Infil W	Sens. Vent W	Latent Vent W	Total Sens. W	Total W
	Solar W	Trans W								
1	1	-20	10	130	124	-26	---	---	218	318
2	1	-22	9	130	124	-29	---	---	212	312
3	1	-24	7	130	124	-31	---	---	207	307
4	1	-25	5	130	124	-33	---	---	202	302
5	189	-25	2	130	124	-33	---	---	387	487
6	313	-24	-1	130	124	-32	---	---	509	609
7	353	-22	-2	130	124	-30	---	---	552	652
8	333	-19	-4	130	124	-26	---	---	537	637
9	271	-16	-6	130	124	-21	---	---	482	582
10	181	-12	-7	130	124	-15	---	---	400	500
11	74	-7	-9	130	124	-10	---	---	302	402
12	76	-4	-10	130	124	-5	---	---	311	411
13	74	-1	-11	130	124	-1	---	---	315	415
14	70	1	-11	130	124	2	---	---	315	415
15	62	2	6	130	124	3	---	---	326	426
16	52	1	18	130	124	2	---	---	328	428
17	42	0	24	130	124	1	---	---	321	421
18	29	-1	25	130	124	-1	---	---	305	405
19	15	-3	22	130	124	-4	---	---	284	384
20	1	-6	16	130	124	-8	---	---	258	358
21	1	-9	9	130	124	-11	---	---	244	344
22	1	-12	11	130	124	-15	---	---	239	339
23	1	-15	12	130	124	-19	---	---	233	333
24	1	-17	11	---	---	-23	---	---	-28	-28

Peak Total Gain		652 at 7 hrs	
		= 17.5 W/m ³	
Air Quantity Required		0.037 m ³ /s at 13.0 C	
		= 4.2 ac/h	= 18.5 l/s/p
Room Temperature		25.0 °C	
Humidity		50 %	
Latent Gain:		100 W	
People			
Infiltration		-10 W	
Total		90 W	

Note:- Total W column includes latent gains for people.

Heatgains for Room 17

NAME: Apt. Type 2B - Bedroom 2

Zone: 1

Copies: 1

DATE: Jul 21

hr	Glazing		Fabric W	People W	Lights +Equip W	Infil W	Sens. Vent W	Latent Vent W	Total Sens. W	Total W
	Solar W	Trans W								
1	2	-21	0	130	135	-29	---	---	216	316
2	2	-23	-1	130	135	-32	---	---	210	310
3	2	-25	-2	130	135	-34	---	---	205	305
4	2	-26	-3	130	135	-36	---	---	202	302
5	198	-26	-4	130	135	-36	---	---	396	496
6	328	-25	-6	130	135	-35	---	---	526	626
7	370	-23	-7	130	135	-32	---	---	572	672
8	349	-20	-8	130	135	-28	---	---	558	658
9	284	-16	-9	130	135	-23	---	---	501	601
10	190	-12	-9	130	135	-17	---	---	416	516
11	78	-8	-10	130	135	-11	---	---	314	414
12	80	-4	-11	130	135	-5	---	---	324	424
13	78	-1	-11	130	135	-1	---	---	330	430
14	73	1	-12	130	135	2	---	---	329	429
15	65	2	-2	130	135	3	---	---	333	433
16	55	2	5	130	135	2	---	---	329	429
17	44	0	8	130	135	1	---	---	318	418
18	31	-1	8	130	135	-1	---	---	301	401
19	17	-3	6	130	135	-4	---	---	279	379
20	2	-6	2	130	135	-8	---	---	254	354
21	2	-9	-3	130	135	-12	---	---	242	342
22	2	-12	-1	130	135	-17	---	---	236	336
23	2	-15	-1	130	135	-21	---	---	229	329
24	2	-18	0	---	---	-25	---	---	-42	-42

Peak Total Gain	672 at 7 hrs = 16.7 W/m ³
Air Quantity Required	0.038 m ³ /s at 13.0 C = 4.0 ac/h = 19.2 l/s/p
Room Temperature	25.0 °C
Humidity	50 %
Latent Gain: People	100 W
Infiltration	-11 W
Total	89 W

Note:- Total W column includes latent gains for people.

Heatgains for Room 21

NAME: Apt. Type 2C - Lounge

Zone: 1

Copies: 1

DATE: Jul 21

hr	Glazing		Fabric W	People W	Lights +Equip W	Infil W	Sens. Vent W	Latent Vent W	Total Sens. W	Total W
	Solar W	Trans W								
1	5	-122	16	260	321	-69	---	---	412	612
2	5	-135	31	260	321	-76	---	---	406	606
3	5	-144	40	260	321	-82	---	---	400	600
4	5	-150	37	260	321	-85	---	---	388	588
5	404	-152	15	260	321	-86	---	---	761	961
6	686	-148	-28	260	321	-84	---	---	1007	1207
7	812	-137	-33	260	321	-77	---	---	1146	1346
8	821	-119	-39	260	321	-67	---	---	1177	1377
9	752	-96	-45	260	321	-54	---	---	1138	1338
10	623	-71	-51	260	321	-40	---	---	1043	1243
11	452	-45	-56	260	321	-25	---	---	906	1106
12	461	-23	-60	260	321	-12	---	---	947	1147
13	451	-4	-63	260	321	-2	---	---	963	1163
14	423	7	-65	260	321	5	---	---	951	1151
15	376	11	-45	260	321	7	---	---	930	1130
16	667	9	-28	260	321	6	---	---	1235	1435
17	897	3	-16	260	321	2	---	---	1468	1668
18	943	-7	-9	260	321	-3	---	---	1505	1705
19	660	-20	-4	260	321	-11	---	---	1206	1406
20	5	-35	-2	260	321	-19	---	---	530	730
21	5	-52	-2	260	321	-29	---	---	502	702
22	5	-71	8	260	321	-40	---	---	484	684
23	5	-89	15	260	321	-50	---	---	462	662
24	5	-106	18	---	---	-60	---	---	-143	-143

Peak Total Gain		1705 at 18 hrs	
		= 18.4 W/m ³	
Air Quantity Required		0.101 m ³ /s at 13.0 C	
		= 4.4 ac/h	= 25.2 l/s/p
Room Temperature		25.0 °C	
Humidity		50 %	
Latent Gain:		200 W	
People			
Infiltration		-26 W	
Total		174 W	

Note:- Total W column includes latent gains for people.

Heatgains for Room 22

NAME: Apt. Type 2C - Bedroom 1

Zone: 1

Copies: 1

DATE: Jul 21

hr	Glazing		Fabric W	People W	Lights +Equip W	Infil W	Sens. Vent W	Latent Vent W	Total Sens. W	Total W
	Solar W	Trans W								
1	1	-20	7	130	120	-26	---	---	212	312
2	1	-22	7	130	120	-29	---	---	207	307
3	1	-24	6	130	120	-31	---	---	203	303
4	1	-25	4	130	120	-32	---	---	199	299
5	191	-25	1	130	120	-32	---	---	385	485
6	317	-25	-3	130	120	-31	---	---	508	608
7	357	-23	-5	130	120	-29	---	---	551	651
8	337	-20	-6	130	120	-25	---	---	536	636
9	274	-16	-8	130	120	-20	---	---	480	580
10	183	-12	-10	130	120	-15	---	---	397	497
11	75	-7	-11	130	120	-9	---	---	298	398
12	77	-4	-12	130	120	-5	---	---	306	406
13	75	-1	-13	130	120	-1	---	---	311	411
14	70	1	-13	130	120	2	---	---	310	410
15	63	2	3	130	120	3	---	---	320	420
16	53	2	14	130	120	2	---	---	321	421
17	42	1	19	130	120	1	---	---	312	412
18	29	-1	19	130	120	-1	---	---	296	396
19	16	-3	15	130	120	-4	---	---	274	374
20	1	-6	10	130	120	-7	---	---	248	348
21	1	-9	3	130	120	-11	---	---	235	335
22	1	-12	5	130	120	-15	---	---	230	330
23	1	-15	7	130	120	-19	---	---	225	325
24	1	-18	7	---	---	-22	---	---	-32	-32

Peak Total Gain	651 at 7 hrs = 18.0 W/m ³
Air Quantity Required	0.037 m ³ /s at 13.0 C = 4.3 ac/h = 18.5 l/s/p
Room Temperature	25.0 °C
Humidity	50 %
Latent Gain: People	100 W
Infiltration	-10 W
Total	90 W

Note:- Total W column includes latent gains for people.

Heatgains for Room 23

NAME: Apt. Type 2C - Bedroom 2

Zone: 1

Copies: 1

DATE: Jul 21

hr	Glazing		Fabric W	People W	Lights +Equip W	Infil W	Sens. Vent W	Latent Vent W	Total Sens. W	Total W
	Solar W	Trans W								
1	2	-21	5	130	156	-34	---	---	239	339
2	2	-23	4	130	156	-37	---	---	232	332
3	2	-25	3	130	156	-40	---	---	226	326
4	2	-26	1	130	156	-41	---	---	221	321
5	201	-26	-2	130	156	-42	---	---	417	517
6	332	-26	-4	130	156	-41	---	---	548	648
7	375	-24	-6	130	156	-38	---	---	594	694
8	353	-21	-7	130	156	-33	---	---	579	679
9	288	-17	-9	130	156	-26	---	---	522	622
10	192	-12	-10	130	156	-19	---	---	437	537
11	79	-8	-11	130	156	-12	---	---	334	434
12	80	-4	-12	130	156	-6	---	---	345	445
13	79	-1	-13	130	156	-1	---	---	350	450
14	74	1	-14	130	156	2	---	---	350	450
15	66	2	1	130	156	3	---	---	359	459
16	55	2	12	130	156	3	---	---	359	459
17	44	0	17	130	156	1	---	---	350	450
18	31	-1	18	130	156	-2	---	---	333	433
19	17	-3	16	130	156	-5	---	---	310	410
20	2	-6	11	130	156	-9	---	---	283	383
21	2	-9	5	130	156	-14	---	---	269	369
22	2	-12	6	130	156	-19	---	---	263	363
23	2	-15	7	130	156	-24	---	---	255	355
24	2	-18	7	---	---	-29	---	---	-40	-40

Peak Total Gain	694 at 7 hrs = 14.9 W/m ³
Air Quantity Required	0.040 m ³ /s at 13.0 C = 3.6 ac/h = 19.9 l/s/p
Room Temperature	25.0 °C
Humidity	50 %
Latent Gain: People	100 W
Infiltration	-13 W
Total	87 W

Note:- Total W column includes latent gains for people.

Heatgains for Room 27

NAME: Apt. Type 2G - Lounge

Zone: 1

Copies: 1

DATE: Jul 21

hr	Glazing		Fabric	People	Lights	Infil	Sens.	Latent	Total	Total
	Solar W	Trans W	W	W	+Equip W	W	Vent W	Vent W	Sens. W	W
1	4	-39	24	260	281	-60	---	---	471	671
2	4	-43	25	260	281	-67	---	---	461	661
3	4	-46	21	260	281	-72	---	---	450	650
4	4	-48	14	260	281	-75	---	---	438	638
5	32	-49	3	260	281	-76	---	---	452	652
6	59	-47	-9	260	281	-74	---	---	470	670
7	83	-44	-10	260	281	-68	---	---	502	702
8	103	-38	-12	260	281	-59	---	---	536	736
9	122	-31	-13	260	281	-47	---	---	572	772
10	137	-23	-14	260	281	-35	---	---	607	807
11	146	-15	-16	260	281	-22	---	---	635	835
12	365	-7	-17	260	281	-11	---	---	871	1071
13	555	-2	-17	260	281	-2	---	---	1076	1276
14	695	2	-18	260	281	4	---	---	1225	1425
15	769	3	-17	260	281	6	---	---	1303	1503
16	766	3	-15	260	281	5	---	---	1300	1500
17	680	1	-13	260	281	2	---	---	1211	1411
18	507	-2	-11	260	281	-3	---	---	1032	1232
19	253	-6	-9	260	281	-9	---	---	770	970
20	4	-11	-6	260	281	-17	---	---	511	711
21	4	-17	-4	260	281	-26	---	---	500	700
22	4	-23	6	260	281	-35	---	---	495	695
23	4	-28	15	260	281	-44	---	---	488	688
24	4	-34	21	---	---	-52	---	---	-61	-61

Peak Total Gain		1503 at 15 hrs	
		= 18.2 W/m ³	
Air Quantity Required		0.087 m ³ /s at 13.0 C	
		= 4.4 ac/h = 21.8 l/s/p	
Room Temperature		25.0 °C	
Humidity		50 %	
Latent Gain:		200 W	
People			
Infiltration		-23 W	
Total		177 W	

Note:- Total W column includes latent gains for people.

Heatgains for Room 28

NAME: Apt. Type 2G - Bedroom 1

Zone: 1

Copies: 1

DATE: Jul 21

hr	Glazing		Fabric W	People W	Lights +Equip W	Infil W	Sens. Vent W	Latent Vent W	Total Sens. W	Total W
	Solar W	Trans W								
1	2	-20	47	130	119	-26	---	---	252	352
2	2	-22	46	130	119	-28	---	---	247	347
3	2	-24	42	130	119	-30	---	---	239	339
4	2	-25	33	130	119	-32	---	---	228	328
5	16	-25	20	130	119	-32	---	---	229	329
6	29	-24	8	130	119	-31	---	---	231	331
7	42	-22	6	130	119	-29	---	---	246	346
8	52	-19	5	130	119	-25	---	---	262	362
9	62	-16	3	130	119	-20	---	---	279	379
10	70	-12	1	130	119	-15	---	---	294	394
11	74	-7	0	130	119	-9	---	---	307	407
12	187	-4	-1	130	119	-5	---	---	427	527
13	284	-1	-2	130	119	-1	---	---	530	630
14	356	1	-2	130	119	2	---	---	606	706
15	394	2	-1	130	119	3	---	---	647	747
16	393	1	1	130	119	2	---	---	647	747
17	349	0	4	130	119	1	---	---	604	704
18	260	-1	8	130	119	-1	---	---	514	614
19	129	-3	11	130	119	-4	---	---	383	483
20	2	-6	14	130	119	-7	---	---	252	352
21	2	-9	17	130	119	-11	---	---	248	348
22	2	-12	28	130	119	-15	---	---	253	353
23	2	-15	38	130	119	-19	---	---	256	356
24	2	-17	44	---	---	-22	---	---	6	6

Peak Total Gain	747 at 16 hrs = 21.2 W/m ³
Air Quantity Required	0.043 m ³ /s at 13.0 C = 5.1 ac/h = 21.7 l/s/p
Room Temperature	25.0 °C
Humidity	50 %
Latent Gain: People	100 W
Infiltration	-10 W
Total	90 W

Note:- Total W column includes latent gains for people.

Heatgains for Room 29

NAME: Apt. Type 2G - Bedroom 2

Zone: 1

Copies: 1

DATE: Jul 21

hr	Glazing		Fabric W	People W	Lights +Equip W	Infil W	Sens. Vent W	Latent Vent W	Total Sens. W	Total W
	Solar W	Trans W								
1	2	-21	47	130	138	-30	---	---	266	366
2	2	-23	47	130	138	-33	---	---	261	361
3	2	-25	43	130	138	-35	---	---	253	353
4	2	-26	35	130	138	-37	---	---	242	342
5	17	-26	21	130	138	-37	---	---	242	342
6	31	-25	6	130	138	-36	---	---	243	343
7	44	-23	4	130	138	-33	---	---	260	360
8	55	-20	2	130	138	-29	---	---	276	376
9	65	-16	1	130	138	-23	---	---	294	394
10	73	-12	-1	130	138	-17	---	---	311	411
11	78	-8	-3	130	138	-11	---	---	325	425
12	196	-4	-4	130	138	-5	---	---	451	551
13	298	-1	-5	130	138	-1	---	---	560	660
14	374	1	-6	130	138	2	---	---	639	739
15	413	2	-4	130	138	3	---	---	682	782
16	412	2	-2	130	138	2	---	---	682	782
17	366	1	2	130	138	1	---	---	637	737
18	272	-1	6	130	138	-1	---	---	543	643
19	136	-3	9	130	138	-5	---	---	405	505
20	2	-6	13	130	138	-8	---	---	268	368
21	2	-9	16	130	138	-13	---	---	264	364
22	2	-12	28	130	138	-17	---	---	269	369
23	2	-15	38	130	138	-22	---	---	271	371
24	2	-18	45	---	---	-26	---	---	2	2

Peak Total Gain	782 at 16 hrs = 19.4 W/m ³
Air Quantity Required	0.046 m ³ /s at 13.0 C = 4.7 ac/h = 22.8 l/s/p
Room Temperature	25.0 °C
Humidity	50 %
Latent Gain: People	100 W
Infiltration	-11 W
Total	89 W

Note:- Total W column includes latent gains for people.

Heatgains for Room 33

NAME: Apt. Type 2H - Lounge

Zone: 1

Copies: 1

DATE: Jul 21

hr	Glazing		Fabric W	People W	Lights +Equip W	Infil W	Sens. Vent W	Latent Vent W	Total Sens. W	Total W
	Solar W	Trans W								
1	2	-24	0	260	302	-65	---	---	476	676
2	2	-26	-2	260	302	-72	---	---	465	665
3	2	-28	-3	260	302	-77	---	---	456	656
4	2	-29	-6	260	302	-80	---	---	449	649
5	226	-30	-9	260	302	-81	---	---	668	868
6	374	-29	-13	260	302	-79	---	---	816	1016
7	422	-27	-15	260	302	-73	---	---	870	1070
8	398	-23	-17	260	302	-63	---	---	857	1057
9	324	-19	-19	260	302	-51	---	---	798	998
10	216	-14	-20	260	302	-37	---	---	707	907
11	89	-9	-22	260	302	-24	---	---	597	797
12	91	-4	-24	260	302	-12	---	---	614	814
13	89	-1	-25	260	302	-2	---	---	624	824
14	84	1	-25	260	302	4	---	---	626	826
15	74	2	-5	260	302	7	---	---	641	841
16	63	2	10	260	302	5	---	---	643	843
17	50	1	17	260	302	2	---	---	632	832
18	35	-1	18	260	302	-3	---	---	611	811
19	19	-4	14	260	302	-10	---	---	582	782
20	2	-7	7	260	302	-18	---	---	547	747
21	2	-10	-2	260	302	-28	---	---	525	725
22	2	-14	1	260	302	-37	---	---	514	714
23	2	-17	2	260	302	-47	---	---	502	702
24	2	-21	1	---	---	-56	---	---	-74	-74

Peak Total Gain	1070 at 7 hrs = 11.3 W/m ³
Air Quantity Required	0.058 m ³ /s at 13.0 C = 2.7 ac/h = 14.6 l/s/p
Room Temperature	25.0 °C
Humidity	50 %
Latent Gain: People	200 W
Infiltration	-25 W
Total	175 W

Note:- Total W column includes latent gains for people.

Heatgains for Room 34

NAME: Apt. Type 2H - Bedroom 1

Zone: 1

Copies: 1

DATE: Jul 21

hr	Glazing		Fabric W	People W	Lights +Equip W	Infil W	Sens. Vent W	Latent Vent W	Total Sens. W	Total W
	Solar W	Trans W								
1	1	-21	9	130	137	-29	---	---	227	327
2	1	-23	8	130	137	-33	---	---	221	321
3	1	-25	7	130	137	-35	---	---	216	316
4	1	-26	5	130	137	-36	---	---	212	312
5	198	-26	2	130	137	-37	---	---	404	504
6	328	-25	-3	130	137	-36	---	---	531	631
7	370	-23	-5	130	137	-33	---	---	576	676
8	349	-20	-6	130	137	-29	---	---	561	661
9	284	-16	-8	130	137	-23	---	---	504	604
10	190	-12	-10	130	137	-17	---	---	418	518
11	78	-8	-12	130	137	-11	---	---	315	415
12	79	-4	-13	130	137	-5	---	---	325	425
13	78	-1	-14	130	137	-1	---	---	329	429
14	73	1	-14	130	137	2	---	---	329	429
15	65	2	2	130	137	3	---	---	339	439
16	55	2	15	130	137	2	---	---	341	441
17	44	1	21	130	137	1	---	---	333	433
18	31	-1	22	130	137	-1	---	---	317	417
19	16	-3	19	130	137	-5	---	---	295	395
20	1	-6	14	130	137	-8	---	---	269	369
21	1	-9	7	130	137	-13	---	---	255	355
22	1	-12	10	130	137	-17	---	---	249	349
23	1	-15	10	130	137	-21	---	---	242	342
24	1	-18	10	---	---	-26	---	---	-32	-32

Peak Total Gain	676 at 7 hrs = 16.5 W/m ³
Air Quantity Required	0.039 m ³ /s at 13.0 C = 4.0 ac/h = 19.3 l/s/p
Room Temperature	25.0 °C
Humidity	50 %
Latent Gain: People	100 W
Infiltration	-11 W
Total	89 W

Note:- Total W column includes latent gains for people.

Heatgains for Room 35

NAME: Apt. Type 2H - Bedroom 2

Zone: 1

Copies: 1

DATE: Jul 21

hr	Glazing		Fabric W	People W	Lights +Equip W	Infil W	Sens. Vent W	Latent Vent W	Total Sens. W	Total W
	Solar W	Trans W								
1	1	-19	7	130	128	-27	---	---	219	319
2	1	-21	7	130	128	-30	---	---	214	314
3	1	-23	6	130	128	-32	---	---	209	309
4	1	-24	4	130	128	-34	---	---	205	305
5	184	-24	1	130	128	-34	---	---	384	484
6	305	-24	-3	130	128	-33	---	---	503	603
7	345	-22	-5	130	128	-31	---	---	544	644
8	325	-19	-7	130	128	-27	---	---	530	630
9	264	-15	-8	130	128	-21	---	---	477	577
10	176	-11	-10	130	128	-16	---	---	397	497
11	73	-7	-12	130	128	-10	---	---	301	401
12	74	-4	-13	130	128	-5	---	---	310	410
13	72	-1	-14	130	128	-1	---	---	315	415
14	68	1	-14	130	128	2	---	---	314	414
15	60	2	3	130	128	3	---	---	325	425
16	51	1	15	130	128	2	---	---	327	427
17	41	0	20	130	128	1	---	---	319	419
18	28	-1	20	130	128	-1	---	---	303	403
19	15	-3	16	130	128	-4	---	---	282	382
20	1	-6	11	130	128	-8	---	---	256	356
21	1	-8	3	130	128	-12	---	---	242	342
22	1	-11	5	130	128	-16	---	---	237	337
23	1	-14	7	130	128	-20	---	---	232	332
24	1	-17	8	---	---	-24	---	---	-32	-32

Peak Total Gain	644 at 7 hrs = 16.7 W/m ³
Air Quantity Required	0.036 m ³ /s at 13.0 C = 4.0 ac/h = 18.2 l/s/p
Room Temperature	25.0 °C
Humidity	50 %
Latent Gain: People	100 W
Infiltration	-10 W
Total	90 W

Note:- Total W column includes latent gains for people.

Heatgains for Room 39

NAME: Apt. Type PH1 - Lounge

Zone: 1

Copies: 1

DATE: Jul 21

hr	Glazing		Fabric W	People W	Lights +Equip W	Infil W	Sens. Vent W	Latent Vent W	Total Sens. W	Total W
	Solar W	Trans W								
1	34	-163	-52	390	513	-108	---	---	614	914
2	34	-180	-62	390	513	-119	---	---	575	875
3	34	-193	-81	390	513	-128	---	---	534	834
4	34	-201	-109	390	513	-133	---	---	493	793
5	911	-204	-118	390	513	-135	---	---	1357	1657
6	1505	-198	-125	390	513	-132	---	---	1952	2252
7	1726	-183	-110	390	513	-121	---	---	2215	2515
8	1676	-159	-78	390	513	-105	---	---	2236	2536
9	1438	-130	-37	390	513	-85	---	---	2090	2390
10	1070	-97	7	390	513	-62	---	---	1822	2122
11	620	-63	50	390	513	-40	---	---	1470	1770
12	630	-34	88	390	513	-19	---	---	1568	1868
13	618	-10	133	390	513	-3	---	---	1641	1941
14	581	5	163	390	513	7	---	---	1660	1960
15	519	11	174	390	513	11	---	---	1618	1918
16	735	8	168	390	513	9	---	---	1823	2123
17	898	0	146	390	513	4	---	---	1950	2250
18	900	-13	112	390	513	-5	---	---	1897	2197
19	623	-30	70	390	513	-17	---	---	1549	1849
20	34	-50	31	390	513	-30	---	---	887	1187
21	34	-73	-6	390	513	-46	---	---	811	1111
22	34	-97	-34	390	513	-62	---	---	744	1044
23	34	-120	-44	390	513	-78	---	---	693	993
24	34	-143	-47	---	---	-94	---	---	-250	-250

Peak Total Gain		2536 at 8 hrs	
		= 17.4 W/m ³	
Air Quantity Required		0.150 m ³ /s at 13.0 C	
		= 4.2 ac/h	= 25.0 l/s/p
Room Temperature		25.0 °C	
Humidity		50 %	
Latent Gain:		300 W	
People			
Infiltration		-41 W	
Total		259 W	

Note:- Total W column includes latent gains for people.

Heatgains for Room 40

NAME: Apt. Type PH1 - Bedroom 1

Zone: 1

Copies: 1

DATE: Jul 21

hr	Glazing		Fabric W	People W	Lights +Equip W	Infil W	Sens. Vent W	Latent Vent W	Total Sens. W	Total W
	Solar W	Trans W								
1	8	-37	-10	130	110	-24	---	---	177	277
2	8	-41	-13	130	110	-26	---	---	168	268
3	8	-44	-17	130	110	-28	---	---	159	259
4	8	-46	-22	130	110	-29	---	---	152	252
5	351	-46	-24	130	110	-30	---	---	491	591
6	577	-45	-26	130	110	-29	---	---	717	817
7	650	-42	-23	130	110	-27	---	---	799	899
8	613	-36	-16	130	110	-23	---	---	778	878
9	500	-29	-8	130	110	-19	---	---	685	785
10	336	-22	2	130	110	-14	---	---	542	642
11	142	-14	11	130	110	-9	---	---	370	470
12	144	-7	19	130	110	-4	---	---	391	491
13	141	-2	33	130	110	-1	---	---	411	511
14	133	1	42	130	110	2	---	---	418	518
15	118	3	46	130	110	2	---	---	410	510
16	101	2	45	130	110	2	---	---	390	490
17	82	0	39	130	110	1	---	---	362	462
18	59	-3	30	130	110	-1	---	---	326	426
19	34	-7	19	130	110	-4	---	---	283	383
20	8	-11	11	130	110	-7	---	---	241	341
21	8	-16	3	130	110	-10	---	---	225	325
22	8	-22	-3	130	110	-14	---	---	209	309
23	8	-27	-6	130	110	-17	---	---	198	298
24	8	-32	-8	---	---	-21	---	---	-53	-53

Peak Total Gain	899 at 7 hrs = 28.4 W/m ³
Air Quantity Required	0.054 m ³ /s at 13.0 C = 6.9 ac/h = 26.8 l/s/p
Room Temperature	25.0 °C
Humidity	50 %
Latent Gain: People	100 W
Infiltration	-9 W
Total	91 W

Note:- Total W column includes latent gains for people.

Heatgains for Room 41

NAME: Apt. Type PH1 - Bedroom 2

Zone: 1

Copies: 1

DATE: Jul 21

hr	Glazing		Fabric W	People W	Lights +Equip W	Infil W	Sens. Vent W	Latent Vent W	Total Sens. W	Total W
	Solar W	Trans W								
1	8	-39	-12	130	113	-24	---	---	176	276
2	8	-43	-15	130	113	-27	---	---	166	266
3	8	-46	-18	130	113	-29	---	---	158	258
4	8	-48	-22	130	113	-30	---	---	151	251
5	372	-49	-24	130	113	-30	---	---	512	612
6	612	-48	-25	130	113	-30	---	---	752	852
7	689	-44	-22	130	113	-27	---	---	839	939
8	650	-38	-15	130	113	-24	---	---	816	916
9	530	-31	-6	130	113	-19	---	---	717	817
10	356	-23	4	130	113	-14	---	---	566	666
11	150	-15	14	130	113	-9	---	---	382	482
12	152	-8	22	130	113	-4	---	---	405	505
13	149	-2	36	130	113	-1	---	---	425	525
14	140	2	44	130	113	2	---	---	431	531
15	125	3	48	130	113	2	---	---	421	521
16	107	2	46	130	113	2	---	---	399	499
17	86	0	40	130	113	1	---	---	370	470
18	62	-3	30	130	113	-1	---	---	331	431
19	36	-7	19	130	113	-4	---	---	286	386
20	8	-12	10	130	113	-7	---	---	242	342
21	8	-17	2	130	113	-10	---	---	225	325
22	8	-23	-5	130	113	-14	---	---	209	309
23	8	-29	-7	130	113	-18	---	---	197	297
24	8	-34	-9	---	---	-21	---	---	-56	-56

Peak Total Gain		939 at 7 hrs	
		= 29.2 W/m ³	
Air Quantity Required		0.056 m ³ /s at 13.0 C	
		= 7.0 ac/h	= 28.1 l/s/p
Room Temperature		25.0 °C	
Humidity		50 %	
Latent Gain:		100 W	
People		-9 W	
Infiltration			
Total		91 W	

Note:- Total W column includes latent gains for people.

Heatgains for Room 42

NAME: Apt. Type PH1 - Bedroom 3

Zone: 1

Copies: 1

DATE: Jul 21

hr	Glazing		Fabric W	People W	Lights +Equip W	Infil W	Sens. Vent W	Latent Vent W	Total Sens. W	Total W
	Solar W	Trans W								
1	10	-39	-18	130	186	-40	---	---	229	329
2	10	-43	-23	130	186	-44	---	---	215	315
3	10	-46	-29	130	186	-47	---	---	203	303
4	10	-48	-36	130	186	-49	---	---	193	293
5	368	-48	-40	130	186	-50	---	---	546	646
6	604	-47	-43	130	186	-49	---	---	781	881
7	681	-44	-38	130	186	-45	---	---	870	970
8	642	-38	-27	130	186	-39	---	---	854	954
9	524	-31	-13	130	186	-31	---	---	765	865
10	352	-23	3	130	186	-23	---	---	625	725
11	149	-15	18	130	186	-15	---	---	454	554
12	151	-8	31	130	186	-7	---	---	484	584
13	148	-2	60	130	186	-1	---	---	521	621
14	140	1	79	130	186	3	---	---	539	639
15	125	3	86	130	186	4	---	---	533	633
16	107	2	83	130	186	3	---	---	510	610
17	87	0	71	130	186	1	---	---	475	575
18	63	-3	53	130	186	-2	---	---	427	527
19	37	-7	31	130	186	-6	---	---	371	471
20	10	-12	18	130	186	-11	---	---	321	421
21	10	-17	5	130	186	-17	---	---	296	396
22	10	-23	-5	130	186	-23	---	---	275	375
23	10	-29	-9	130	186	-29	---	---	259	359
24	10	-34	-13	---	---	-35	---	---	-72	-72

Peak Total Gain	970 at 7 hrs = 18.3 W/m ³
Air Quantity Required	0.058 m ³ /s at 13.0 C = 4.4 ac/h = 29.1 l/s/p
Room Temperature	25.0 °C
Humidity	50 %
Latent Gain: People	100 W
Infiltration	-15 W
Total	85 W

Note:- Total W column includes latent gains for people.

Heatgains for Room 47

NAME: Apt. Type PH2 - Lounge

Zone: 1

Copies: 1

DATE: Jul 21

hr	Glazing		Fabric W	People W	Lights +Equip W	Infil W	Sens. Vent W	Latent Vent W	Total Sens. W	Total W
	Solar W	Trans W								
1	48	-181	-46	390	561	-120	---	---	652	952
2	48	-200	-62	390	561	-133	---	---	604	904
3	48	-214	-80	390	561	-143	---	---	562	862
4	48	-223	-99	390	561	-149	---	---	529	829
5	1082	-226	-109	390	561	-151	---	---	1547	1847
6	1995	-220	-118	390	561	-147	---	---	2462	2762
7	2534	-203	-102	390	561	-135	---	---	3045	3345
8	2728	-177	-67	390	561	-117	---	---	3318	3618
9	2627	-144	-22	390	561	-95	---	---	3318	3618
10	2274	-107	25	390	561	-69	---	---	3074	3374
11	1716	-70	72	390	561	-44	---	---	2624	2924
12	1593	-37	114	390	561	-21	---	---	2598	2898
13	1349	-11	166	390	561	-3	---	---	2451	2751
14	1009	6	207	390	561	8	---	---	2181	2481
15	607	12	229	390	561	12	---	---	1811	2111
16	500	9	230	390	561	10	---	---	1699	1999
17	407	0	210	390	561	4	---	---	1572	1872
18	296	-14	174	390	561	-6	---	---	1401	1701
19	175	-33	126	390	561	-19	---	---	1200	1500
20	48	-55	83	390	561	-34	---	---	992	1292
21	48	-80	37	390	561	-51	---	---	904	1204
22	48	-107	0	390	561	-69	---	---	823	1123
23	48	-133	-20	390	561	-87	---	---	758	1058
24	48	-158	-32	---	---	-105	---	---	-247	-247

Peak Total Gain		3618 at 8 hrs	
		= 23.2 W/m ³	
Air Quantity Required		0.222 m ³ /s at 13.0 C	
		= 5.6 ac/h	= 37.0 l/s/p
Room Temperature		25.0 °C	
Humidity		50 %	
Latent Gain:		300 W	
People			
Infiltration		-46 W	
Total		254 W	

Note:- Total W column includes latent gains for people.

Heatgains for Room 48

NAME: Apt. Type PH2 - Bedroom 1

Zone: 1

Copies: 1

DATE: Jul 21

hr	Glazing		Fabric W	People W	Lights +Equip W	Infil W	Sens. Vent W	Latent Vent W	Total Sens. W	Total W
	Solar W	Trans W								
1	9	-37	-13	130	142	-30	---	---	201	301
2	9	-41	-17	130	142	-34	---	---	189	289
3	9	-44	-22	130	142	-36	---	---	179	279
4	9	-45	-27	130	142	-38	---	---	171	271
5	350	-46	-30	130	142	-38	---	---	508	608
6	576	-45	-33	130	142	-37	---	---	733	833
7	648	-41	-30	130	142	-34	---	---	815	915
8	612	-36	-21	130	142	-30	---	---	797	897
9	499	-29	-11	130	142	-24	---	---	707	807
10	335	-22	1	130	142	-18	---	---	569	669
11	142	-14	13	130	142	-11	---	---	401	501
12	144	-8	23	130	142	-5	---	---	426	526
13	141	-2	46	130	142	-1	---	---	457	557
14	133	1	62	130	142	2	---	---	471	571
15	119	3	69	130	142	3	---	---	465	565
16	101	2	67	130	142	3	---	---	444	544
17	82	0	58	130	142	1	---	---	413	513
18	59	-3	44	130	142	-1	---	---	371	471
19	34	-7	26	130	142	-5	---	---	322	422
20	9	-11	16	130	142	-9	---	---	277	377
21	9	-16	6	130	142	-13	---	---	258	358
22	9	-22	-1	130	142	-18	---	---	240	340
23	9	-27	-5	130	142	-22	---	---	226	326
24	9	-32	-9	---	---	-27	---	---	-59	-59

Peak Total Gain	915 at 7 hrs = 22.5 W/m ³
Air Quantity Required	0.055 m ³ /s at 13.0 C = 5.4 ac/h = 27.3 l/s/p
Room Temperature	25.0 °C
Humidity	50 %
Latent Gain: People	100 W
Infiltration	-12 W
Total	88 W

Note:- Total W column includes latent gains for people.

Heatgains for Room 49

NAME: Apt. Type PH2 - Bedroom 2	Zone: 1	Copies: 1	DATE: Jul 21
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hr	Glazing		Fabric W	People W	Lights +Equip W	Infil W	Sens. Vent W	Latent Vent W	Total Sens. W	Total W
	Solar W	Trans W								
1	8	-37	-13	130	131	-28	---	---	190	290
2	8	-41	-17	130	131	-31	---	---	180	280
3	8	-44	-21	130	131	-33	---	---	171	271
4	8	-46	-26	130	131	-35	---	---	163	263
5	351	-46	-28	130	131	-35	---	---	502	602
6	578	-45	-30	130	131	-34	---	---	729	829
7	651	-42	-26	130	131	-32	---	---	812	912
8	614	-36	-18	130	131	-27	---	---	793	893
9	501	-29	-8	130	131	-22	---	---	702	802
10	336	-22	3	130	131	-16	---	---	562	662
11	142	-14	14	130	131	-10	---	---	392	492
12	144	-7	24	130	131	-5	---	---	416	516
13	141	-2	40	130	131	-1	---	---	439	539
14	133	1	51	130	131	2	---	---	448	548
15	119	3	55	130	131	3	---	---	440	540
16	101	2	53	130	131	2	---	---	419	519
17	82	0	46	130	131	1	---	---	389	489
18	59	-3	35	130	131	-1	---	---	350	450
19	34	-7	21	130	131	-4	---	---	305	405
20	8	-11	11	130	131	-8	---	---	261	361
21	8	-16	2	130	131	-12	---	---	242	342
22	8	-22	-5	130	131	-16	---	---	225	325
23	8	-27	-8	130	131	-20	---	---	213	313
24	8	-32	-10	---	---	-24	---	---	-59	-59

Peak Total Gain	912 at 7 hrs = 24.4 W/m ³
Air Quantity Required	0.054 m ³ /s at 13.0 C = 5.9 ac/h = 27.2 l/s/p
Room Temperature	25.0 °C
Humidity	50 %
Latent Gain: People	100 W
Infiltration	-11 W
Total	89 W

Note:- Total W column includes latent gains for people.

Heatgains for Room 50

NAME: Apt. Type PH2 - Bedroom 3	Zone: 1	Copies: 1	DATE: Jul 21
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hr	Glazing		Fabric W	People W	Lights +Equip W	Infil W	Sens. Vent W	Latent Vent W	Total Sens. W	Total W
	Solar W	Trans W								
1	9	-35	-17	130	181	-39	---	---	229	329
2	9	-39	-23	130	181	-43	---	---	215	315
3	9	-42	-29	130	181	-46	---	---	203	303
4	9	-44	-35	130	181	-48	---	---	193	293
5	336	-44	-39	130	181	-49	---	---	515	615
6	552	-43	-42	130	181	-47	---	---	730	830
7	622	-40	-38	130	181	-44	---	---	812	912
8	587	-35	-27	130	181	-38	---	---	798	898
9	479	-28	-13	130	181	-30	---	---	718	818
10	322	-21	2	130	181	-22	---	---	591	691
11	137	-14	17	130	181	-14	---	---	436	536
12	138	-7	30	130	181	-7	---	---	465	565
13	136	-2	58	130	181	-1	---	---	502	602
14	128	1	77	130	181	3	---	---	520	620
15	114	2	84	130	181	4	---	---	516	616
16	97	2	81	130	181	3	---	---	494	594
17	79	0	69	130	181	1	---	---	461	561
18	57	-3	52	130	181	-2	---	---	416	516
19	34	-6	30	130	181	-6	---	---	363	463
20	9	-11	18	130	181	-11	---	---	316	416
21	9	-16	5	130	181	-17	---	---	293	393
22	9	-21	-4	130	181	-22	---	---	272	372
23	9	-26	-8	130	181	-28	---	---	257	357
24	9	-31	-12	---	---	-34	---	---	-68	-68

Peak Total Gain	912 at 7 hrs = 17.6 W/m ³
Air Quantity Required	0.054 m ³ /s at 13.0 C = 4.2 ac/h = 27.2 l/s/p
Room Temperature	25.0 °C
Humidity	50 %
Latent Gain:	100 W
People	-15 W
Infiltration	85 W
Total	

Note:- Total W column includes latent gains for people.

Heatgains for Room 54

NAME: Apt. Type PH3 - Lounge

Zone: 1

Copies: 1

DATE: Jul 21

hr	Glazing		Fabric W	People W	Lights +Equip W	Infil W	Sens. Vent W	Latent Vent W	Total Sens. W	Total W
	Solar W	Trans W								
1	47	-148	-16	390	566	-121	---	---	718	1018
2	47	-163	-38	390	566	-134	---	---	668	968
3	47	-174	-65	390	566	-144	---	---	619	919
4	47	-182	-93	390	566	-150	---	---	579	879
5	155	-184	-103	390	566	-152	---	---	672	972
6	367	-179	-111	390	566	-148	---	---	884	1184
7	603	-166	-95	390	566	-136	---	---	1162	1462
8	810	-144	-59	390	566	-118	---	---	1445	1745
9	974	-117	-14	390	566	-95	---	---	1703	2003
10	1073	-87	34	390	566	-70	---	---	1905	2205
11	1093	-57	81	390	566	-45	---	---	2028	2328
12	1628	-30	123	390	566	-22	---	---	2655	2955
13	2031	-9	161	390	566	-4	---	---	3135	3435
14	2255	5	193	390	566	8	---	---	3417	3717
15	2273	9	212	390	566	12	---	---	3463	3763
16	2237	7	214	390	566	10	---	---	3424	3724
17	1981	0	200	390	566	4	---	---	3140	3440
18	1481	-12	171	390	566	-6	---	---	2591	2891
19	758	-27	132	390	566	-19	---	---	1801	2101
20	47	-45	97	390	566	-34	---	---	1020	1320
21	47	-66	59	390	566	-52	---	---	944	1244
22	47	-87	28	390	566	-70	---	---	874	1174
23	47	-109	12	390	566	-88	---	---	818	1118
24	47	-129	0	---	---	-106	---	---	-188	-188

Peak Total Gain		3763 at 15 hrs	
		= 24.0 W/m ³	
Air Quantity Required		0.232 m ³ /s at 13.0 C	
		= 5.8 ac/h	= 38.7 l/s/p
Room Temperature		25.0 °C	
Humidity		50 %	
Latent Gain:		300 W	
People			
Infiltration		-46 W	
Total		254 W	

Note:- Total W column includes latent gains for people.

Heatgains for Room 55

NAME: Apt. Type PH3 - Bedroom 1

Zone: 1

Copies: 1

DATE: Jul 21

hr	Glazing		Fabric W	People W	Lights +Equip W	Infil W	Sens. Vent W	Latent Vent W	Total Sens. W	Total W
	Solar W	Trans W								
1	11	-38	18	130	144	-31	---	---	234	334
2	11	-42	7	130	144	-34	---	---	216	316
3	11	-45	-7	130	144	-37	---	---	196	296
4	11	-47	-20	130	144	-38	---	---	179	279
5	38	-48	-24	130	144	-39	---	---	202	302
6	64	-47	-26	130	144	-38	---	---	227	327
7	87	-43	-23	130	144	-35	---	---	260	360
8	107	-37	-14	130	144	-30	---	---	299	399
9	126	-30	-4	130	144	-24	---	---	341	441
10	140	-23	8	130	144	-18	---	---	382	482
11	149	-15	20	130	144	-11	---	---	416	516
12	361	-8	31	130	144	-6	---	---	652	752
13	546	-2	40	130	144	-1	---	---	856	956
14	682	1	47	130	144	2	---	---	1006	1106
15	753	3	51	130	144	3	---	---	1084	1184
16	750	2	51	130	144	3	---	---	1080	1180
17	667	0	48	130	144	1	---	---	990	1090
18	499	-3	42	130	144	-1	---	---	810	910
19	253	-7	33	130	144	-5	---	---	548	648
20	11	-12	32	130	144	-9	---	---	296	396
21	11	-17	30	130	144	-13	---	---	284	384
22	11	-23	28	130	144	-18	---	---	272	372
23	11	-28	28	130	144	-22	---	---	262	362
24	11	-34	25	---	---	-27	---	---	-24	-24

Peak Total Gain		1184 at 15 hrs	
		= 29.6 W/m ³	
Air Quantity Required		0.073 m ³ /s at 13.0 C	
		= 7.1 ac/h	= 36.3 l/s/p
Room Temperature		25.0 °C	
Humidity		50 %	
Latent Gain:		100 W	
People			
Infiltration		-12 W	
Total		88 W	

Note:- Total W column includes latent gains for people.

Heatgains for Room 56

NAME: Apt. Type PH3 - Bedroom 2

Zone: 1

Copies: 1

DATE: Jul 21

hr	Glazing		Fabric W	People W	Lights +Equip W	Infil W	Sens. Vent W	Latent Vent W	Total Sens. W	Total W
	Solar W	Trans W								
1	9	-36	0	130	133	-28	---	---	208	308
2	9	-39	-6	130	133	-32	---	---	196	296
3	9	-42	-14	130	133	-34	---	---	182	282
4	9	-44	-23	130	133	-35	---	---	171	271
5	34	-44	-25	130	133	-36	---	---	192	292
6	58	-43	-27	130	133	-35	---	---	216	316
7	80	-40	-23	130	133	-32	---	---	249	349
8	99	-35	-14	130	133	-28	---	---	285	385
9	116	-28	-4	130	133	-22	---	---	325	425
10	130	-21	8	130	133	-16	---	---	363	463
11	138	-14	19	130	133	-10	---	---	396	496
12	335	-7	29	130	133	-5	---	---	615	715
13	507	-2	38	130	133	-1	---	---	805	905
14	634	1	43	130	133	2	---	---	944	1044
15	701	3	46	130	133	3	---	---	1015	1115
16	698	2	45	130	133	2	---	---	1010	1110
17	620	0	41	130	133	1	---	---	925	1025
18	464	-3	33	130	133	-1	---	---	756	856
19	235	-6	24	130	133	-4	---	---	511	611
20	9	-11	18	130	133	-8	---	---	272	372
21	9	-16	12	130	133	-12	---	---	256	356
22	9	-21	7	130	133	-16	---	---	242	342
23	9	-26	6	130	133	-21	---	---	231	331
24	9	-31	4	---	---	-25	---	---	-43	-43

Peak Total Gain	1115 at 15 hrs = 29.9 W/m ³
Air Quantity Required	0.068 m ³ /s at 13.0 C = 7.2 ac/h = 34.0 l/s/p
Room Temperature	25.0 °C
Humidity	50 %
Latent Gain: People	100 W
Infiltration	-11 W
Total	89 W

Note:- Total W column includes latent gains for people.

Heatgains for Room 57

NAME: Apt. Type PH3 - Bedroom 3	Zone: 1	Copies: 1	DATE: Jul 21
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hr	Glazing		Fabric W	People W	Lights +Equip W	Infil W	Sens. Vent W	Latent Vent W	Total Sens. W	Total W
	Solar W	Trans W								
1	12	-37	19	130	181	-39	---	---	266	366
2	12	-41	7	130	181	-43	---	---	245	345
3	12	-44	-10	130	181	-46	---	---	223	323
4	12	-45	-27	130	181	-48	---	---	202	302
5	37	-46	-31	130	181	-49	---	---	223	323
6	62	-45	-34	130	181	-47	---	---	247	347
7	85	-41	-29	130	181	-44	---	---	281	381
8	104	-36	-19	130	181	-38	---	---	322	422
9	121	-29	-5	130	181	-30	---	---	368	468
10	135	-22	10	130	181	-22	---	---	412	512
11	144	-14	25	130	181	-14	---	---	451	551
12	347	-8	38	130	181	-7	---	---	682	782
13	525	-2	50	130	181	-1	---	---	882	982
14	655	1	58	130	181	3	---	---	1028	1128
15	724	2	63	130	181	4	---	---	1103	1203
16	721	2	62	130	181	3	---	---	1099	1199
17	641	0	57	130	181	1	---	---	1011	1111
18	480	-3	49	130	181	-2	---	---	835	935
19	244	-7	38	130	181	-6	---	---	580	680
20	12	-11	36	130	181	-11	---	---	336	436
21	12	-16	32	130	181	-17	---	---	322	422
22	12	-22	30	130	181	-22	---	---	308	408
23	12	-27	30	130	181	-28	---	---	297	397
24	12	-32	27	---	---	-34	---	---	-27	-27

Peak Total Gain	1203 at 15 hrs = 23.9 W/m ³
Air Quantity Required	0.074 m ³ /s at 13.0 C = 5.8 ac/h = 37.0 l/s/p
Room Temperature	25.0 °C
Humidity	50 %
Latent Gain:	100 W
People	-15 W
Infiltration	85 W
Total	

Note:- Total W column includes latent gains for people.

Heatgains for Room 63

NAME: Apt. Type PH4 - Lounge

Zone: 1

Copies: 1

DATE: Jul 21

hr	Glazing		Fabric W	People W	Lights +Equip W	Infil W	Sens. Vent W	Latent Vent W	Total Sens. W	Total W
	Solar W	Trans W								
1	39	-163	-11	390	491	-105	---	---	640	940
2	39	-180	-29	390	491	-117	---	---	594	894
3	39	-193	-59	390	491	-125	---	---	542	842
4	39	-201	-99	390	491	-130	---	---	489	789
5	153	-204	-109	390	491	-132	---	---	589	889
6	262	-199	-117	390	491	-129	---	---	699	999
7	363	-183	-104	390	491	-118	---	---	839	1139
8	447	-160	-74	390	491	-103	---	---	992	1292
9	525	-130	-35	390	491	-83	---	---	1159	1459
10	588	-97	6	390	491	-61	---	---	1317	1617
11	624	-63	47	390	491	-39	---	---	1450	1750
12	1126	-34	83	390	491	-19	---	---	2038	2338
13	1552	-10	117	390	491	-3	---	---	2538	2838
14	1854	5	141	390	491	7	---	---	2889	3189
15	1994	11	152	390	491	11	---	---	3048	3348
16	2245	8	149	390	491	9	---	---	3292	3592
17	2258	0	134	390	491	4	---	---	3277	3577
18	1922	-13	108	390	491	-5	---	---	2894	3194
19	1130	-30	75	390	491	-16	---	---	2040	2340
20	39	-50	50	390	491	-30	---	---	890	1190
21	39	-73	23	390	491	-45	---	---	826	1126
22	39	-97	4	390	491	-61	---	---	767	1067
23	39	-120	-2	390	491	-77	---	---	721	1021
24	39	-143	-3	---	---	-92	---	---	-199	-199

Peak Total Gain	3592 at 16 hrs = 26.3 W/m ³
Air Quantity Required	0.221 m ³ /s at 13.0 C = 6.3 ac/h = 36.8 l/s/p
Room Temperature	25.0 °C
Humidity	50 %
Latent Gain: People	300 W
Infiltration	-40 W
Total	260 W

Note:- Total W column includes latent gains for people.

Heatgains for Room 64

NAME: Apt. Type PH4 - Bedroom 1

Zone: 1

Copies: 1

DATE: Jul 21

hr	Glazing		Fabric W	People W	Lights +Equip W	Infil W	Sens. Vent W	Latent Vent W	Total Sens. W	Total W
	Solar W	Trans W								
1	10	-37	5	130	106	-23	---	---	192	292
2	10	-41	-1	130	106	-25	---	---	180	280
3	10	-44	-9	130	106	-27	---	---	167	267
4	10	-46	-18	130	106	-28	---	---	155	255
5	36	-46	-20	130	106	-29	---	---	177	277
6	61	-45	-22	130	106	-28	---	---	202	302
7	84	-42	-19	130	106	-26	---	---	234	334
8	103	-36	-13	130	106	-22	---	---	268	368
9	121	-29	-4	130	106	-18	---	---	305	405
10	135	-22	4	130	106	-13	---	---	340	440
11	143	-14	13	130	106	-8	---	---	370	470
12	348	-7	21	130	106	-4	---	---	593	693
13	526	-2	28	130	106	-1	---	---	787	887
14	658	1	33	130	106	2	---	---	930	1030
15	727	3	36	130	106	2	---	---	1004	1104
16	724	2	36	130	106	2	---	---	1000	1100
17	644	0	34	130	106	1	---	---	914	1014
18	481	-3	29	130	106	-1	---	---	742	842
19	243	-7	22	130	106	-4	---	---	492	592
20	10	-11	19	130	106	-6	---	---	247	347
21	10	-16	14	130	106	-10	---	---	235	335
22	10	-22	11	130	106	-13	---	---	223	323
23	10	-27	10	130	106	-17	---	---	213	313
24	10	-32	9	---	---	-20	---	---	-33	-33

Peak Total Gain	1104 at 15 hrs = 37.1 W/m ³
Air Quantity Required	0.067 m ³ /s at 13.0 C = 8.9 ac/h = 33.6 l/s/p
Room Temperature	25.0 °C
Humidity	50 %
Latent Gain: People	100 W
Infiltration	-9 W
Total	91 W

Note:- Total W column includes latent gains for people.

Heatgains for Room 65

NAME: Apt. Type PH4 - Bedroom 2

Zone: 1

Copies: 1

DATE: Jul 21

hr	Glazing		Fabric W	People W	Lights +Equip W	Infil W	Sens. Vent W	Latent Vent W	Total Sens. W	Total W
	Solar W	Trans W								
1	11	-37	19	130	137	-29	---	---	231	331
2	11	-41	9	130	137	-33	---	---	213	313
3	11	-44	-6	130	137	-35	---	---	194	294
4	11	-45	-20	130	137	-36	---	---	176	276
5	36	-46	-23	130	137	-37	---	---	198	298
6	61	-45	-26	130	137	-36	---	---	222	322
7	84	-41	-23	130	137	-33	---	---	254	354
8	103	-36	-15	130	137	-29	---	---	291	391
9	121	-29	-5	130	137	-23	---	---	331	431
10	135	-22	6	130	137	-17	---	---	370	470
11	143	-14	18	130	137	-11	---	---	403	503
12	348	-7	28	130	137	-5	---	---	630	730
13	525	-2	37	130	137	-1	---	---	826	926
14	656	1	44	130	137	2	---	---	970	1070
15	725	3	48	130	137	3	---	---	1046	1146
16	723	2	48	130	137	2	---	---	1042	1142
17	642	0	45	130	137	1	---	---	956	1056
18	480	-3	40	130	137	-1	---	---	783	883
19	243	-7	32	130	137	-5	---	---	531	631
20	11	-11	31	130	137	-8	---	---	290	390
21	11	-16	29	130	137	-13	---	---	278	378
22	11	-22	28	130	137	-17	---	---	267	367
23	11	-27	28	130	137	-21	---	---	258	358
24	11	-32	26	---	---	-26	---	---	-22	-22

Peak Total Gain	1146 at 15 hrs = 29.9 W/m ³
Air Quantity Required	0.070 m ³ /s at 13.0 C = 7.2 ac/h = 35.0 l/s/p
Room Temperature	25.0 °C
Humidity	50 %
Latent Gain: People	100 W
Infiltration	-11 W
Total	89 W

Note:- Total W column includes latent gains for people.

Heatgains for Room 66

NAME: Apt. Type PH4 - Bedroom 3

Zone: 1

Copies: 1

DATE: Jul 21

hr	Glazing		Fabric W	People W	Lights +Equip W	Infil W	Sens. Vent W	Latent Vent W	Total Sens. W	Total W
	Solar W	Trans W								
1	10	-37	-3	130	174	-37	---	---	237	337
2	10	-41	-10	130	174	-41	---	---	222	322
3	10	-44	-20	130	174	-44	---	---	206	306
4	10	-46	-30	130	174	-46	---	---	193	293
5	36	-46	-32	130	174	-47	---	---	215	315
6	61	-45	-35	130	174	-46	---	---	240	340
7	84	-42	-29	130	174	-42	---	---	275	375
8	103	-36	-18	130	174	-36	---	---	317	417
9	121	-29	-4	130	174	-29	---	---	363	463
10	135	-22	12	130	174	-22	---	---	408	508
11	143	-14	27	130	174	-14	---	---	446	546
12	349	-7	40	130	174	-7	---	---	679	779
13	528	-2	51	130	174	-1	---	---	879	979
14	659	1	58	130	174	3	---	---	1025	1125
15	729	3	61	130	174	4	---	---	1100	1200
16	726	2	59	130	174	3	---	---	1094	1194
17	645	0	53	130	174	1	---	---	1003	1103
18	482	-3	43	130	174	-2	---	---	825	925
19	244	-7	31	130	174	-6	---	---	567	667
20	10	-11	22	130	174	-11	---	---	314	414
21	10	-16	13	130	174	-16	---	---	295	395
22	10	-22	7	130	174	-22	---	---	277	377
23	10	-27	5	130	174	-27	---	---	265	365
24	10	-32	2	---	---	-32	---	---	-53	-53

Peak Total Gain	1200 at 15 hrs = 24.8 W/m ³
Air Quantity Required	0.074 m ³ /s at 13.0 C = 6.0 ac/h = 36.8 l/s/p
Room Temperature	25.0 °C
Humidity	50 %
Latent Gain: People	100 W
Infiltration	-14 W
Total	86 W

Note:- Total W column includes latent gains for people.

Heatgains for Room 72

NAME: Apt. Type 2C - Lounge 3

Zone: 1

Copies: 1

DATE: Jul 21

hr	Glazing		Fabric W	People W	Lights +Equip W	Infil W	Sens. Vent W	Latent Vent W	Total Sens. W	Total W
	Solar W	Trans W								
1	5	-122	16	260	321	-69	---	---	412	612
2	5	-135	31	260	321	-76	---	---	406	606
3	5	-144	40	260	321	-82	---	---	400	600
4	5	-150	37	260	321	-85	---	---	388	588
5	404	-152	15	260	321	-86	---	---	761	961
6	686	-148	-28	260	321	-84	---	---	1007	1207
7	812	-137	-33	260	321	-77	---	---	1146	1346
8	821	-119	-39	260	321	-67	---	---	1177	1377
9	752	-96	-45	260	321	-54	---	---	1138	1338
10	623	-71	-51	260	321	-40	---	---	1043	1243
11	452	-45	-56	260	321	-25	---	---	906	1106
12	461	-23	-60	260	321	-12	---	---	947	1147
13	451	-4	-63	260	321	-2	---	---	963	1163
14	423	7	-65	260	321	5	---	---	951	1151
15	376	11	-45	260	321	7	---	---	930	1130
16	667	9	-28	260	321	6	---	---	1235	1435
17	897	3	-16	260	321	2	---	---	1468	1668
18	943	-7	-9	260	321	-3	---	---	1505	1705
19	660	-20	-4	260	321	-11	---	---	1206	1406
20	5	-35	-2	260	321	-19	---	---	530	730
21	5	-52	-2	260	321	-29	---	---	502	702
22	5	-71	8	260	321	-40	---	---	484	684
23	5	-89	15	260	321	-50	---	---	462	662
24	5	-106	18	---	---	-60	---	---	-143	-143

Peak Total Gain	1705 at 18 hrs = 18.4 W/m ³
Air Quantity Required	0.101 m ³ /s at 13.0 C = 4.4 ac/h = 25.2 l/s/p
Room Temperature	25.0 °C
Humidity	50 %
Latent Gain: People	200 W
Infiltration	-26 W
Total	174 W

Note:- Total W column includes latent gains for people.

Heatgains for Room 74

NAME: Apt. Type 2C - Bedroom 4

Zone: 1

Copies: 1

DATE: Jul 21

hr	Glazing		Fabric W	People W	Lights +Equip W	Infil W	Sens. Vent W	Latent Vent W	Total Sens. W	Total W
	Solar W	Trans W								
1	1	-20	7	130	120	-26	---	---	212	312
2	1	-22	7	130	120	-29	---	---	207	307
3	1	-24	6	130	120	-31	---	---	203	303
4	1	-25	4	130	120	-32	---	---	199	299
5	191	-25	1	130	120	-32	---	---	385	485
6	317	-25	-3	130	120	-31	---	---	508	608
7	357	-23	-5	130	120	-29	---	---	551	651
8	337	-20	-6	130	120	-25	---	---	536	636
9	274	-16	-8	130	120	-20	---	---	480	580
10	183	-12	-10	130	120	-15	---	---	397	497
11	75	-7	-11	130	120	-9	---	---	298	398
12	77	-4	-12	130	120	-5	---	---	306	406
13	75	-1	-13	130	120	-1	---	---	311	411
14	70	1	-13	130	120	2	---	---	310	410
15	63	2	3	130	120	3	---	---	320	420
16	53	2	14	130	120	2	---	---	321	421
17	42	1	19	130	120	1	---	---	312	412
18	29	-1	19	130	120	-1	---	---	296	396
19	16	-3	15	130	120	-4	---	---	274	374
20	1	-6	10	130	120	-7	---	---	248	348
21	1	-9	3	130	120	-11	---	---	235	335
22	1	-12	5	130	120	-15	---	---	230	330
23	1	-15	7	130	120	-19	---	---	225	325
24	1	-18	7	---	---	-22	---	---	-32	-32

Peak Total Gain	651 at 7 hrs = 18.0 W/m ³
Air Quantity Required	0.037 m ³ /s at 13.0 C = 4.3 ac/h = 18.5 l/s/p
Room Temperature	25.0 °C
Humidity	50 %
Latent Gain: People	100 W
Infiltration	-10 W
Total	90 W

Note:- Total W column includes latent gains for people.

Heatgains for Room 76

NAME: Apt. Type 2C - Bedroom 5	Zone: 1	Copies: 1	DATE: Jul 21
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hr	Glazing		Fabric W	People W	Lights +Equip W	Infil W	Sens. Vent W	Latent Vent W	Total Sens. W	Total W
	Solar W	Trans W								
1	2	-21	5	130	156	-34	---	---	239	339
2	2	-23	4	130	156	-37	---	---	232	332
3	2	-25	3	130	156	-40	---	---	226	326
4	2	-26	1	130	156	-41	---	---	221	321
5	201	-26	-2	130	156	-42	---	---	417	517
6	332	-26	-4	130	156	-41	---	---	548	648
7	375	-24	-6	130	156	-38	---	---	594	694
8	353	-21	-7	130	156	-33	---	---	579	679
9	288	-17	-9	130	156	-26	---	---	522	622
10	192	-12	-10	130	156	-19	---	---	437	537
11	79	-8	-11	130	156	-12	---	---	334	434
12	80	-4	-12	130	156	-6	---	---	345	445
13	79	-1	-13	130	156	-1	---	---	350	450
14	74	1	-14	130	156	2	---	---	350	450
15	66	2	1	130	156	3	---	---	359	459
16	55	2	12	130	156	3	---	---	359	459
17	44	0	17	130	156	1	---	---	350	450
18	31	-1	18	130	156	-2	---	---	333	433
19	17	-3	16	130	156	-5	---	---	310	410
20	2	-6	11	130	156	-9	---	---	283	383
21	2	-9	5	130	156	-14	---	---	269	369
22	2	-12	6	130	156	-19	---	---	263	363
23	2	-15	7	130	156	-24	---	---	255	355
24	2	-18	7	---	---	-29	---	---	-40	-40

Peak Total Gain	694 at 7 hrs = 14.9 W/m ³
Air Quantity Required	0.040 m ³ /s at 13.0 C = 3.6 ac/h = 19.9 l/s/p
Room Temperature	25.0 °C
Humidity	50 %
Latent Gain: People	100 W
Infiltration	-13 W
Total	87 W

Note:- Total W column includes latent gains for people.

Summary of Peak Sensible and Latent Room Heatgains in kW

ROOM	ROOM NAME	SENSIBLE	LATENT	m ³ /s	=ac/h
1	Apt. Type 1A - Lounge	1.66	0.07	0.111	4.9
2	Apt. Type 1A - Bedro...	1.09	0.09	0.073	8.6
5	Apt. Type 1C - Lounge	1.35	0.08	0.091	4.3
6	Apt. Type 1C - Bedro...	0.92	0.09	0.061	7.3
9	Apt. Type 2A - Lounge	1.34	0.18	0.090	4.2
10	Apt. Type 2A - Bedro...	0.69	0.09	0.046	4.3
11	Apt. Type 2A - Bedro...	0.67	0.09	0.045	5.2
15	Apt. Type 2B - Lounge	1.09	0.18	0.073	3.7
16	Apt. Type 2B - Bedro...	0.55	0.09	0.037	4.2
17	Apt. Type 2B - Bedro...	0.57	0.09	0.038	4.0
21	Apt. Type 2C - Lounge	1.51	0.17	0.101	4.4
22	Apt. Type 2C - Bedro...	0.55	0.09	0.037	4.3
23	Apt. Type 2C - Bedro...	0.59	0.09	0.040	3.6
27	Apt. Type 2G - Lounge	1.30	0.18	0.087	4.4
28	Apt. Type 2G - Bedro...	0.65	0.09	0.043	5.1
29	Apt. Type 2G - Bedro...	0.68	0.09	0.046	4.7
33	Apt. Type 2H - Lounge	0.87	0.18	0.058	2.7
34	Apt. Type 2H - Bedro...	0.58	0.09	0.039	4.0
35	Apt. Type 2H - Bedro...	0.54	0.09	0.036	4.0
39	Apt. Type PH1 - Lou...	2.24	0.26	0.150	4.2
40	Apt. Type PH1 - Bedr...	0.80	0.09	0.054	6.9
41	Apt. Type PH1 - Bedr...	0.84	0.09	0.056	7.0
42	Apt. Type PH1 - Bedr...	0.87	0.08	0.058	4.4
47	Apt. Type PH2 - Lou...	3.32	0.25	0.222	5.6
48	Apt. Type PH2 - Bedr...	0.82	0.09	0.055	5.4
49	Apt. Type PH2 - Bedr...	0.81	0.09	0.054	5.9
50	Apt. Type PH2 - Bedr...	0.81	0.09	0.054	4.2
54	Apt. Type PH3 - Lou...	3.46	0.25	0.232	5.8
55	Apt. Type PH3 - Bedr...	1.08	0.09	0.073	7.1
56	Apt. Type PH3 - Bedr...	1.01	0.09	0.068	7.2
57	Apt. Type PH3 - Bedr...	1.10	0.09	0.074	5.8
63	Apt. Type PH4 - Lou...	3.29	0.26	0.221	6.3
64	Apt. Type PH4 - Bedr...	1.00	0.09	0.067	8.9
65	Apt. Type PH4 - Bedr...	1.05	0.09	0.070	7.2
66	Apt. Type PH4 - Bedr...	1.10	0.09	0.074	6.0
72	Apt. Type 2C - Loung...	1.51	0.17	0.101	4.4
74	Apt. Type 2C - Bedro...	0.55	0.09	0.037	4.3
76	Apt. Type 2C - Bedro...	0.59	0.09	0.040	3.6
TOTAL				2.912	

m³/s: air quantity for maximum heatgain

Heatgains using File:- Plot 3 Angel Meadows.CYC (07/07/2021)

General Information

Project Reference	Plot 3 Angel Meadows
Areas Calculated	Selected Rooms

Temp Difference for Air Volume Calc	12.0 C	Temperature Type	DRT
Building Weight	LIGHTWEIGHT	Plant Hours	24 hrs
		Diversity On People	100%
Diversity On Lighting	100%	Diversity On Equipment	100%

This Report includes:
For each Room - Numeric, Summary

Month	Day	Maximum °C	Minimum °C	Wet Bulb °C
July	21	26.0	12.5	17.0

Heatgains for Room 8

NAME: 3D - Lounge/Kitchen	Zone: 4	Copies: 1	DATE: Jul 21
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hr	Glazing		Fabric W	People W	Lights +Equip W	Infil W	Sens. Vent W	Latent Vent W	Total Sens. W	Total W
	Solar W	Trans W								
1	42	-103	157	390	423	-89	---	---	821	1121
2	42	-113	155	390	423	-98	---	---	798	1098
3	42	-121	139	390	423	-106	---	---	767	1067
4	42	-126	110	390	423	-110	---	---	729	1029
5	111	-128	70	390	423	-112	---	---	755	1055
6	178	-125	30	390	423	-109	---	---	787	1087
7	239	-115	24	390	423	-100	---	---	861	1161
8	290	-100	17	390	423	-87	---	---	934	1234
9	337	-81	11	390	423	-70	---	---	1010	1310
10	381	-60	5	390	423	-51	---	---	1088	1388
11	715	-40	0	390	423	-33	---	---	1456	1756
12	1001	-21	-5	390	423	-16	---	---	1773	2073
13	1208	-6	-8	390	423	-3	---	---	2005	2305
14	1347	4	-10	390	423	6	---	---	2159	2459
15	1513	7	-2	390	423	9	---	---	2340	2640
16	1536	5	8	390	423	7	---	---	2370	2670
17	1398	0	19	390	423	3	---	---	2233	2533
18	1079	-8	30	390	423	-4	---	---	1910	2210
19	577	-18	41	390	423	-14	---	---	1399	1699
20	42	-31	52	390	423	-25	---	---	850	1150
21	42	-45	86	390	423	-38	---	---	858	1158
22	42	-60	115	390	423	-51	---	---	858	1158
23	42	-75	135	390	423	-65	---	---	850	1150
24	42	-90	148	---	---	-77	---	---	22	22

Peak Total Gain	2670 at 16 hrs = 22.4 W/m ³
Air Quantity Required	0.159 m ³ /s at 13.0 C = 5.4 ac/h = 26.5 l/s/p
Room Temperature	25.0 °C
Humidity	50 %
Latent Gain:	300 W
People	-34 W
Infiltration	
Total	266 W

Note:- Total W column includes latent gains for people.

Heatgains for Room 9

NAME: 3D - Bed 1

Zone: 4

Copies: 1

DATE: Jul 21

hr	Glazing		Fabric W	People W	Lights +Equip W	Infil W	Sens. Vent W	Latent Vent W	Total Sens. W	Total W
	Solar W	Trans W								
1	6	-20	19	130	123	-26	---	---	232	332
2	6	-22	25	130	123	-29	---	---	233	333
3	6	-24	28	130	123	-31	---	---	232	332
4	6	-25	26	130	123	-32	---	---	228	328
5	19	-25	17	130	123	-32	---	---	232	332
6	32	-24	1	130	123	-31	---	---	230	330
7	44	-22	0	130	123	-29	---	---	245	345
8	54	-19	-2	130	123	-25	---	---	261	361
9	63	-16	-3	130	123	-20	---	---	277	377
10	71	-12	-4	130	123	-15	---	---	293	393
11	75	-8	-5	130	123	-9	---	---	305	405
12	77	-4	-6	130	123	-5	---	---	314	414
13	75	-1	-7	130	123	-1	---	---	319	419
14	89	1	-8	130	123	2	---	---	337	437
15	177	1	-6	130	123	3	---	---	427	527
16	247	1	-5	130	123	2	---	---	498	598
17	285	0	-3	130	123	1	---	---	535	635
18	271	-1	-1	130	123	-1	---	---	520	620
19	175	-4	2	130	123	-4	---	---	422	522
20	6	-6	4	130	123	-7	---	---	249	349
21	6	-9	6	130	123	-11	---	---	245	345
22	6	-12	8	130	123	-15	---	---	240	340
23	6	-15	9	130	123	-19	---	---	235	335
24	6	-17	11	---	---	-22	---	---	-23	-23

Peak Total Gain	635 at 17 hrs = 17.5 W/m ³
Air Quantity Required	0.036 m ³ /s at 13.0 C = 4.2 ac/h = 17.9 l/s/p
Room Temperature	25.0 °C
Humidity	50 %
Latent Gain: People	100 W
Infiltration	-10 W
Total	90 W

Note:- Total W column includes latent gains for people.

Heatgains for Room 10

NAME: 3D - Bed 2	Zone: 4	Copies: 1	DATE: Jul 21
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hr	Glazing		Fabric W	People W	Lights +Equip W	Infil W	Sens. Vent W	Latent Vent W	Total Sens. W	Total W
	Solar W	Trans W								
1	6	-20	19	130	121	-25	---	---	230	330
2	6	-23	25	130	121	-28	---	---	231	331
3	6	-24	27	130	121	-30	---	---	230	330
4	6	-25	25	130	121	-32	---	---	226	326
5	20	-25	16	130	121	-32	---	---	230	330
6	33	-25	1	130	121	-31	---	---	230	330
7	45	-23	0	130	121	-29	---	---	245	345
8	56	-20	-2	130	121	-25	---	---	261	361
9	65	-16	-3	130	121	-20	---	---	277	377
10	73	-12	-4	130	121	-15	---	---	293	393
11	77	-8	-5	130	121	-9	---	---	306	406
12	78	-4	-6	130	121	-5	---	---	315	415
13	77	-1	-7	130	121	-1	---	---	320	420
14	91	1	-7	130	121	2	---	---	338	438
15	181	1	-6	130	121	3	---	---	430	530
16	253	1	-5	130	121	2	---	---	502	602
17	292	0	-3	130	121	1	---	---	541	641
18	277	-1	-1	130	121	-1	---	---	525	625
19	180	-4	1	130	121	-4	---	---	425	525
20	6	-6	4	130	121	-7	---	---	248	348
21	6	-9	6	130	121	-11	---	---	244	344
22	6	-12	8	130	121	-15	---	---	239	339
23	6	-15	9	130	121	-19	---	---	233	333
24	6	-18	11	---	---	-22	---	---	-23	-23

Peak Total Gain	641 at 17 hrs = 17.8 W/m ³
Air Quantity Required	0.036 m ³ /s at 13.0 C = 4.3 ac/h = 18.1 l/s/p
Room Temperature	25.0 °C
Humidity	50 %
Latent Gain: People	100 W
Infiltration	-10 W
Total	90 W

Note:- Total W column includes latent gains for people.

Heatgains for Room 11

NAME: 3D - Bed 3

Zone: 4

Copies: 1

DATE: Jul 21

hr	Glazing		Fabric W	People W	Lights +Equip W	Infil W	Sens. Vent W	Latent Vent W	Total Sens. W	Total W
	Solar W	Trans W								
1	6	-21	4	130	158	-33	---	---	244	344
2	6	-24	10	130	158	-37	---	---	244	344
3	6	-25	13	130	158	-39	---	---	243	343
4	6	-26	11	130	158	-41	---	---	238	338
5	21	-27	3	130	158	-42	---	---	243	343
6	35	-26	-12	130	158	-41	---	---	244	344
7	47	-24	-13	130	158	-37	---	---	261	361
8	58	-21	-15	130	158	-32	---	---	278	378
9	68	-17	-16	130	158	-26	---	---	297	397
10	76	-13	-17	130	158	-19	---	---	315	415
11	80	-8	-18	130	158	-12	---	---	330	430
12	82	-4	-19	130	158	-6	---	---	341	441
13	80	-1	-20	130	158	-1	---	---	346	446
14	85	1	-20	130	158	2	---	---	355	455
15	178	1	-19	130	158	3	---	---	451	551
16	254	1	-18	130	158	3	---	---	528	628
17	296	0	-16	130	158	1	---	---	570	670
18	284	-2	-14	130	158	-2	---	---	555	655
19	186	-4	-12	130	158	-5	---	---	453	553
20	6	-6	-9	130	158	-9	---	---	269	369
21	6	-9	-7	130	158	-14	---	---	264	364
22	6	-13	-6	130	158	-19	---	---	257	357
23	6	-16	-4	130	158	-24	---	---	250	350
24	6	-19	-3	---	---	-29	---	---	-44	-44

Peak Total Gain	670 at 17 hrs = 14.4 W/m ³
Air Quantity Required	0.038 m ³ /s at 13.0 C = 3.5 ac/h = 19.1 l/s/p
Room Temperature	25.0 °C
Humidity	50 %
Latent Gain:	100 W
People	-13 W
Infiltration	87 W
Total	

Note:- Total W column includes latent gains for people.

Heatgains for Room 15

NAME: 3A - Lounge/Kitchen	Zone: 4	Copies: 1	DATE: Jul 21
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hr	Glazing		Fabric W	People W	Lights +Equip W	Infil W	Sens. Vent W	Latent Vent W	Total Sens. W	Total W
Solar W	Trans W									
1	58	-124	142	390	423	-89	---	---	801	1101
2	58	-136	135	390	423	-98	---	---	771	1071
3	58	-146	118	390	423	-106	---	---	738	1038
4	58	-152	93	390	423	-110	---	---	702	1002
5	261	-154	62	390	423	-112	---	---	870	1170
6	511	-150	36	390	423	-109	---	---	1102	1402
7	729	-139	30	390	423	-100	---	---	1334	1634
8	884	-121	24	390	423	-87	---	---	1515	1815
9	975	-98	19	390	423	-70	---	---	1639	1939
10	1001	-73	13	390	423	-51	---	---	1703	2003
11	1355	-48	8	390	423	-33	---	---	2096	2396
12	1599	-25	4	390	423	-16	---	---	2375	2675
13	1706	-7	1	390	423	-3	---	---	2510	2810
14	1698	4	-1	390	423	6	---	---	2521	2821
15	1689	8	12	390	423	9	---	---	2531	2831
16	1530	6	28	390	423	7	---	---	2385	2685
17	1235	0	44	390	423	3	---	---	2095	2395
18	826	-9	57	390	423	-4	---	---	1683	1983
19	373	-22	68	390	423	-14	---	---	1218	1518
20	58	-38	77	390	423	-25	---	---	885	1185
21	58	-55	104	390	423	-38	---	---	882	1182
22	58	-73	124	390	423	-51	---	---	871	1171
23	58	-91	135	390	423	-65	---	---	851	1151
24	58	-108	139	---	---	-77	---	---	11	11

Peak Total Gain	2831 at 15 hrs = 23.9 W/m ³
Air Quantity Required	0.170 m ³ /s at 13.0 C = 5.8 ac/h = 28.3 l/s/p
Room Temperature	25.0 °C
Humidity	50 %
Latent Gain: People	300 W
Infiltration	-34 W
Total	266 W

Note:- Total W column includes latent gains for people.

Heatgains for Room 16

NAME: 3A - Bed 1	Zone: 4	Copies: 1	DATE: Jul 21
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hr	Glazing		Fabric W	People W	Lights +Equip W	Infil W	Sens. Vent W	Latent Vent W	Total Sens. W	Total W
	Solar W	Trans W								
1	5	-21	-4	130	122	-26	---	---	206	306
2	5	-24	-7	130	122	-28	---	---	198	298
3	5	-25	-10	130	122	-30	---	---	191	291
4	5	-27	-14	130	122	-32	---	---	185	285
5	90	-27	-17	130	122	-32	---	---	266	366
6	206	-26	-20	130	122	-31	---	---	380	480
7	304	-24	-16	130	122	-29	---	---	487	587
8	371	-21	-9	130	122	-25	---	---	569	669
9	401	-17	1	130	122	-20	---	---	617	717
10	393	-12	12	130	122	-15	---	---	629	729
11	347	-8	22	130	122	-9	---	---	604	704
12	270	-4	31	130	122	-5	---	---	544	644
13	169	-1	38	130	122	-1	---	---	458	558
14	76	1	42	130	122	2	---	---	373	473
15	68	2	49	130	122	3	---	---	374	474
16	58	2	56	130	122	2	---	---	369	469
17	47	1	58	130	122	1	---	---	358	458
18	34	-1	56	130	122	-1	---	---	339	439
19	19	-3	50	130	122	-4	---	---	314	414
20	5	-6	40	130	122	-7	---	---	283	383
21	5	-9	28	130	122	-11	---	---	264	364
22	5	-12	16	130	122	-15	---	---	246	346
23	5	-16	8	130	122	-19	---	---	230	330
24	5	-19	-1	---	---	-22	---	---	-38	-38

Peak Total Gain	729 at 10 hrs = 20.6 W/m ³
Air Quantity Required	0.042 m ³ /s at 13.0 C = 5.0 ac/h = 21.1 l/s/p
Room Temperature	25.0 °C
Humidity	50 %
Latent Gain: People	100 W
Infiltration	-10 W
Total	90 W

Note:- Total W column includes latent gains for people.

Heatgains for Room 17

NAME: 3A - Bed 2	Zone: 4	Copies: 1	DATE: Jul 21
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hr	Glazing		Fabric W	People W	Lights +Equip W	Infil W	Sens. Vent W	Latent Vent W	Total Sens. W	Total W
	Solar W	Trans W								
1	10	-22	22	130	123	-26	---	---	238	338
2	10	-24	21	130	123	-29	---	---	232	332
3	10	-26	20	130	123	-31	---	---	227	327
4	10	-27	18	130	123	-32	---	---	223	323
5	95	-27	16	130	123	-33	---	---	305	405
6	210	-27	14	130	123	-32	---	---	419	519
7	307	-24	13	130	123	-29	---	---	520	620
8	373	-21	12	130	123	-25	---	---	592	692
9	403	-17	10	130	123	-20	---	---	629	729
10	395	-13	9	130	123	-15	---	---	629	729
11	350	-8	8	130	123	-10	---	---	593	693
12	273	-4	7	130	123	-5	---	---	524	624
13	173	-1	6	130	123	-1	---	---	431	531
14	81	1	6	130	123	2	---	---	343	443
15	73	2	12	130	123	3	---	---	343	443
16	63	1	21	130	123	2	---	---	341	441
17	52	0	29	130	123	1	---	---	336	436
18	39	-2	36	130	123	-1	---	---	325	425
19	25	-4	39	130	123	-4	---	---	310	410
20	10	-7	41	130	123	-7	---	---	290	390
21	10	-10	39	130	123	-11	---	---	282	382
22	10	-13	35	130	123	-15	---	---	270	370
23	10	-16	29	130	123	-19	---	---	257	357
24	10	-19	22	---	---	-23	---	---	-9	-9

Peak Total Gain	729 at 10 hrs = 20.4 W/m ³
Air Quantity Required	0.042 m ³ /s at 13.0 C = 4.9 ac/h = 21.1 l/s/p
Room Temperature	25.0 °C
Humidity	50 %
Latent Gain: People	100 W
Infiltration	-10 W
Total	90 W

Note:- Total W column includes latent gains for people.

Heatgains for Room 18

NAME: 3A - Bed 3	Zone: 4	Copies: 1	DATE: Jul 21
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hr	Glazing		Fabric W	People W	Lights +Equip W	Infil W	Sens. Vent W	Latent Vent W	Total Sens. W	Total W
	Solar W	Trans W								
1	9	-20	18	130	163	-34	---	---	266	366
2	9	-22	16	130	163	-38	---	---	259	359
3	9	-24	14	130	163	-41	---	---	252	352
4	9	-25	11	130	163	-42	---	---	246	346
5	93	-25	7	130	163	-43	---	---	325	425
6	202	-25	3	130	163	-42	---	---	432	532
7	292	-23	2	130	163	-39	---	---	526	626
8	351	-20	0	130	163	-33	---	---	592	692
9	376	-16	-1	130	163	-27	---	---	625	725
10	365	-12	-3	130	163	-20	---	---	624	724
11	320	-8	-4	130	163	-13	---	---	589	689
12	246	-4	-5	130	163	-6	---	---	524	624
13	151	-1	-6	130	163	-1	---	---	437	537
14	75	1	-6	130	163	2	---	---	365	465
15	68	1	1	130	163	3	---	---	366	466
16	58	1	10	130	163	3	---	---	366	466
17	48	0	19	130	163	1	---	---	362	462
18	36	-2	26	130	163	-2	---	---	352	452
19	23	-4	30	130	163	-5	---	---	338	438
20	9	-6	31	130	163	-10	---	---	318	418
21	9	-9	31	130	163	-15	---	---	311	411
22	9	-12	28	130	163	-20	---	---	300	400
23	9	-15	23	130	163	-25	---	---	286	386
24	9	-18	18	---	---	-30	---	---	-20	-20

Peak Total Gain	725 at 9 hrs = 15.3 W/m ³
Air Quantity Required	0.042 m ³ /s at 13.0 C = 3.7 ac/h = 20.9 l/s/p
Room Temperature	25.0 °C
Humidity	50 %
Latent Gain: People	100 W
Infiltration	-13 W
Total	87 W

Note:- Total W column includes latent gains for people.

Heatgains for Room 25

NAME: 1D - Bed 1	Zone: 4	Copies: 1	DATE: Jul 21
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hr	Glazing		Fabric W	People W	Lights +Equip W	Infil W	Sens. Vent W	Latent Vent W	Total Sens. W	Total W
	Solar W	Trans W								
1	6	-20	26	130	114	-24	---	---	232	332
2	6	-22	37	130	114	-26	---	---	238	338
3	6	-24	42	130	114	-28	---	---	239	339
4	6	-25	38	130	114	-30	---	---	233	333
5	19	-25	22	130	114	-30	---	---	230	330
6	32	-24	-6	130	114	-29	---	---	216	316
7	44	-23	-9	130	114	-27	---	---	230	330
8	55	-20	-11	130	114	-23	---	---	244	344
9	64	-16	-14	130	114	-19	---	---	259	359
10	71	-12	-16	130	114	-14	---	---	273	373
11	76	-8	-18	130	114	-9	---	---	285	385
12	77	-4	-20	130	114	-4	---	---	293	393
13	76	-1	-21	130	114	-1	---	---	297	397
14	90	1	-22	130	114	2	---	---	314	414
15	178	1	-20	130	114	2	---	---	406	506
16	249	1	-18	130	114	2	---	---	479	579
17	288	0	-14	130	114	1	---	---	519	619
18	274	-1	-10	130	114	-1	---	---	505	605
19	177	-4	-6	130	114	-4	---	---	408	508
20	6	-6	-1	130	114	-7	---	---	235	335
21	6	-9	3	130	114	-10	---	---	233	333
22	6	-12	6	130	114	-14	---	---	230	330
23	6	-15	8	130	114	-17	---	---	226	326
24	6	-18	12	---	---	-21	---	---	-21	-21

Peak Total Gain	619 at 17 hrs = 18.2 W/m ³
Air Quantity Required	0.035 m ³ /s at 13.0 C = 4.4 ac/h = 17.4 l/s/p
Room Temperature	25.0 °C
Humidity	50 %
Latent Gain: People	100 W
Infiltration	-9 W
Total	91 W

Note:- Total W column includes latent gains for people.

Heatgains for Room 26

NAME: 1D - Lounge/Kitchen

Zone: 4

Copies: 1

DATE: Jul 21

hr	Glazing		Fabric W	People W	Lights +Equip W	Infil W	Sens. Vent W	Latent Vent W	Total Sens. W	Total W
	Solar W	Trans W								
1	19	-59	-10	130	288	-60	---	---	307	407
2	19	-65	-2	130	288	-67	---	---	302	402
3	19	-70	1	130	288	-72	---	---	296	396
4	19	-72	-2	130	288	-75	---	---	288	388
5	59	-73	-14	130	288	-76	---	---	313	413
6	97	-71	-34	130	288	-74	---	---	335	435
7	132	-66	-36	130	288	-68	---	---	380	480
8	161	-57	-38	130	288	-59	---	---	425	525
9	188	-47	-39	130	288	-47	---	---	472	572
10	210	-35	-41	130	288	-35	---	---	516	616
11	222	-23	-43	130	288	-22	---	---	552	652
12	227	-12	-44	130	288	-11	---	---	577	677
13	222	-3	-45	130	288	-2	---	---	589	689
14	263	2	-46	130	288	4	---	---	641	741
15	521	4	-43	130	288	6	---	---	906	1006
16	727	3	-40	130	288	5	---	---	1112	1212
17	839	0	-37	130	288	2	---	---	1221	1321
18	797	-5	-35	130	288	-3	---	---	1173	1273
19	517	-11	-32	130	288	-9	---	---	883	983
20	19	-18	-30	130	288	-17	---	---	372	472
21	19	-26	-27	130	288	-26	---	---	358	458
22	19	-35	-24	130	288	-35	---	---	343	443
23	19	-43	-22	130	288	-44	---	---	327	427
24	19	-51	-20	---	---	-53	---	---	-105	-105

Peak Total Gain	1321 at 17 hrs = 17.0 W/m ³
Air Quantity Required	0.082 m ³ /s at 13.0 C = 4.1 ac/h = 40.9 l/s/p
Room Temperature	25.0 °C
Humidity	50 %
Latent Gain:	100 W
People	-23 W
Infiltration	77 W
Total	

Note:- Total W column includes latent gains for people.

Heatgains for Room 28

NAME: 1B - Bed 1	Zone: 4	Copies: 1	DATE: Jul 21
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hr	Glazing		Fabric W	People W	Lights +Equip W	Infil W	Sens. Vent W	Latent Vent W	Total Sens. W	Total W
	Solar W	Trans W								
1	9	-20	36	130	125	-26	---	---	254	354
2	9	-22	35	130	125	-29	---	---	247	347
3	9	-24	32	130	125	-31	---	---	241	341
4	9	-25	29	130	125	-33	---	---	235	335
5	87	-25	25	130	125	-33	---	---	309	409
6	193	-24	21	130	125	-32	---	---	413	513
7	284	-23	18	130	125	-30	---	---	505	605
8	345	-20	16	130	125	-26	---	---	570	670
9	372	-16	13	130	125	-21	---	---	604	704
10	364	-12	11	130	125	-15	---	---	604	704
11	323	-8	9	130	125	-10	---	---	569	669
12	252	-4	7	130	125	-5	---	---	505	605
13	160	-1	6	130	125	-1	---	---	419	519
14	74	1	5	130	125	2	---	---	337	437
15	67	1	17	130	125	3	---	---	343	443
16	58	1	34	130	125	2	---	---	350	450
17	48	0	50	130	125	1	---	---	354	454
18	36	-1	62	130	125	-1	---	---	350	450
19	22	-4	70	130	125	-4	---	---	340	440
20	9	-6	72	130	125	-7	---	---	323	423
21	9	-9	69	130	125	-11	---	---	313	413
22	9	-12	61	130	125	-15	---	---	298	398
23	9	-15	49	130	125	-19	---	---	279	379
24	9	-18	37	---	---	-23	---	---	5	5

Peak Total Gain	704 at 9 hrs = 19.3 W/m ³
Air Quantity Required	0.040 m ³ /s at 13.0 C = 4.7 ac/h = 20.2 l/s/p
Room Temperature	25.0 °C
Humidity	50 %
Latent Gain: People	100 W
Infiltration	-10 W
Total	90 W

Note:- Total W column includes latent gains for people.

Heatgains for Room 30

NAME: 1B - Lounge/Kitchen

Zone: 4

Copies: 1

DATE: Jul 21

hr	Glazing		Fabric W	People W	Lights +Equip W	Infil W	Sens. Vent W	Latent Vent W	Total Sens. W	Total W
	Solar W	Trans W								
1	30	-60	-24	130	321	-67	---	---	329	429
2	30	-66	-26	130	321	-75	---	---	314	414
3	30	-71	-27	130	321	-80	---	---	302	402
4	30	-74	-29	130	321	-83	---	---	294	394
5	264	-75	-32	130	321	-85	---	---	523	623
6	579	-73	-35	130	321	-82	---	---	839	939
7	847	-68	-37	130	321	-76	---	---	1118	1218
8	1029	-59	-39	130	321	-66	---	---	1316	1416
9	1110	-48	-40	130	321	-53	---	---	1420	1520
10	1088	-36	-42	130	321	-39	---	---	1422	1522
11	964	-23	-43	130	321	-25	---	---	1323	1423
12	753	-12	-45	130	321	-12	---	---	1135	1235
13	478	-4	-46	130	321	-2	---	---	878	978
14	225	2	-46	130	321	5	---	---	636	736
15	203	4	-37	130	321	7	---	---	628	728
16	175	3	-25	130	321	6	---	---	610	710
17	145	0	-15	130	321	2	---	---	583	683
18	109	-5	-8	130	321	-3	---	---	545	645
19	71	-11	-4	130	321	-10	---	---	496	596
20	30	-18	-3	130	321	-19	---	---	440	540
21	30	-27	-4	130	321	-29	---	---	421	521
22	30	-36	-9	130	321	-39	---	---	397	497
23	30	-44	-17	130	321	-49	---	---	371	471
24	30	-53	-24	---	---	-59	---	---	-105	-105

Peak Total Gain		1522 at 10 hrs	
		= 17.7 W/m ³	
Air Quantity Required		0.095 m ³ /s at 13.0 C	
		= 4.3 ac/h = 47.6 l/s/p	
Room Temperature		25.0 °C	
Humidity		50 %	
Latent Gain:		100 W	
People			
Infiltration		-26 W	
Total		74 W	

Note:- Total W column includes latent gains for people.

Heatgains for Room 31

NAME: 2D - Bed 1	Zone: 4	Copies: 1	DATE: Jul 21
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hr	Glazing		Fabric W	People W	Lights +Equip W	Infil W	Sens. Vent W	Latent Vent W	Total Sens. W	Total W
	Solar W	Trans W								
1	7	-21	11	130	149	-31	---	---	244	344
2	7	-23	17	130	149	-35	---	---	244	344
3	7	-25	20	130	149	-37	---	---	243	343
4	7	-26	18	130	149	-39	---	---	238	338
5	21	-26	9	130	149	-39	---	---	243	343
6	34	-26	-6	130	149	-38	---	---	243	343
7	47	-24	-7	130	149	-35	---	---	260	360
8	58	-21	-8	130	149	-30	---	---	277	377
9	67	-17	-10	130	149	-25	---	---	295	395
10	75	-12	-11	130	149	-18	---	---	312	412
11	80	-8	-12	130	149	-11	---	---	326	426
12	81	-4	-13	130	149	-6	---	---	337	437
13	80	-1	-14	130	149	-1	---	---	342	442
14	94	1	-14	130	149	2	---	---	362	462
15	187	1	-13	130	149	3	---	---	457	557
16	261	1	-12	130	149	3	---	---	531	631
17	301	0	-10	130	149	1	---	---	571	671
18	286	-2	-8	130	149	-1	---	---	554	654
19	186	-4	-6	130	149	-5	---	---	450	550
20	7	-6	-3	130	149	-9	---	---	267	367
21	7	-9	-1	130	149	-13	---	---	261	361
22	7	-12	1	130	149	-18	---	---	255	355
23	7	-16	2	130	149	-23	---	---	249	349
24	7	-18	4	---	---	-27	---	---	-35	-35

Peak Total Gain	671 at 17 hrs = 15.4 W/m ³
Air Quantity Required	0.038 m ³ /s at 13.0 C = 3.7 ac/h = 19.1 l/s/p
Room Temperature	25.0 °C
Humidity	50 %
Latent Gain: People	100 W
Infiltration	-12 W
Total	88 W

Note:- Total W column includes latent gains for people.

Heatgains for Room 32

NAME: 2D - Bed 2

Zone: 4

Copies: 1

DATE: Jul 21

hr	Glazing		Fabric W	People W	Lights +Equip W	Infil W	Sens. Vent W	Latent Vent W	Total Sens. W	Total W
	Solar W	Trans W								
1	6	-21	19	130	118	-25	---	---	227	327
2	6	-23	25	130	118	-27	---	---	228	328
3	6	-25	27	130	118	-29	---	---	227	327
4	6	-26	25	130	118	-31	---	---	223	323
5	21	-26	16	130	118	-31	---	---	227	327
6	34	-26	0	130	118	-30	---	---	227	327
7	47	-24	-1	130	118	-28	---	---	242	342
8	57	-21	-2	130	118	-24	---	---	258	358
9	67	-17	-4	130	118	-20	---	---	275	375
10	75	-12	-5	130	118	-14	---	---	291	391
11	80	-8	-6	130	118	-9	---	---	304	404
12	81	-4	-7	130	118	-4	---	---	313	413
13	80	-1	-8	130	118	-1	---	---	318	418
14	94	1	-8	130	118	2	---	---	336	436
15	187	1	-7	130	118	2	---	---	432	532
16	261	1	-6	130	118	2	---	---	507	607
17	302	0	-4	130	118	1	---	---	547	647
18	287	-2	-2	130	118	-1	---	---	530	630
19	186	-4	1	130	118	-4	---	---	427	527
20	6	-6	3	130	118	-7	---	---	244	344
21	6	-9	5	130	118	-11	---	---	240	340
22	6	-12	7	130	118	-14	---	---	235	335
23	6	-16	9	130	118	-18	---	---	229	329
24	6	-18	11	---	---	-22	---	---	-23	-23

Peak Total Gain	647 at 17 hrs = 18.5 W/m ³
Air Quantity Required	0.037 m ³ /s at 13.0 C = 4.5 ac/h = 18.3 l/s/p
Room Temperature	25.0 °C
Humidity	50 %
Latent Gain: People	100 W
Infiltration	-9 W
Total	91 W

Note:- Total W column includes latent gains for people.

Heatgains for Room 37

NAME: 2D - lounge/kitchen

Zone: 4

Copies: 1

DATE: Jul 21

hr	Glazing		Fabric W	People W	Lights +Equip W	Infil W	Sens. Vent W	Latent Vent W	Total Sens. W	Total W
	Solar W	Trans W								
1	33	-116	16	260	326	-69	---	---	451	651
2	33	-128	19	260	326	-76	---	---	435	635
3	33	-137	17	260	326	-81	---	---	418	618
4	33	-142	9	260	326	-85	---	---	401	601
5	710	-144	-7	260	326	-86	---	---	1059	1259
6	1084	-141	-29	260	326	-84	---	---	1417	1617
7	1141	-130	-35	260	326	-77	---	---	1486	1686
8	995	-113	-40	260	326	-67	---	---	1361	1561
9	730	-92	-45	260	326	-54	---	---	1126	1326
10	409	-68	-50	260	326	-40	---	---	838	1038
11	434	-44	-55	260	326	-25	---	---	896	1096
12	443	-23	-59	260	326	-12	---	---	935	1135
13	434	-6	-62	260	326	-2	---	---	951	1151
14	443	4	-64	260	326	5	---	---	975	1175
15	578	8	-22	260	326	7	---	---	1157	1357
16	672	6	3	260	326	6	---	---	1273	1473
17	704	1	11	260	326	2	---	---	1304	1504
18	630	-8	8	260	326	-3	---	---	1213	1413
19	402	-21	-1	260	326	-11	---	---	956	1156
20	33	-35	-13	260	326	-19	---	---	552	752
21	33	-51	-4	260	326	-29	---	---	535	735
22	33	-68	3	260	326	-40	---	---	515	715
23	33	-85	7	260	326	-50	---	---	491	691
24	33	-101	10	---	---	-60	---	---	-118	-118

Peak Total Gain		1686 at 7 hrs	
		= 18.2 W/m ³	
Air Quantity Required		0.100 m ³ /s at 13.0 C	
		= 4.4 ac/h	= 24.9 l/s/p
Room Temperature		25.0 °C	
Humidity		50 %	
Latent Gain:		200 W	
People			
Infiltration		-26 W	
Total		174 W	

Note:- Total W column includes latent gains for people.

Heatgains for Room 40

NAME: PH 5 - Bed 1	Zone: 4	Copies: 1	DATE: Jul 21
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hr	Glazing		Fabric W	People W	Lights +Equip W	Infil W	Sens. Vent W	Latent Vent W	Total Sens. W	Total W
	Solar W	Trans W								
1	49	-135	38	130	249	-52	---	---	278	378
2	49	-150	43	130	249	-58	---	---	262	362
3	49	-160	41	130	249	-62	---	---	246	346
4	49	-167	32	130	249	-65	---	---	227	327
5	140	-169	12	130	249	-66	---	---	297	397
6	228	-165	-13	130	249	-64	---	---	365	465
7	309	-152	-16	130	249	-59	---	---	461	561
8	377	-132	-19	130	249	-51	---	---	553	653
9	439	-107	-23	130	249	-41	---	---	647	747
10	494	-80	-26	130	249	-30	---	---	737	837
11	766	-52	-28	130	249	-19	---	---	1045	1145
12	993	-27	-30	130	249	-9	---	---	1304	1404
13	1150	-8	-32	130	249	-2	---	---	1487	1587
14	1296	5	-33	130	249	4	---	---	1650	1750
15	1671	9	-28	130	249	5	---	---	2036	2136
16	1885	7	-23	130	249	4	---	---	2252	2352
17	1884	1	-17	130	249	2	---	---	2248	2348
18	1596	-10	-12	130	249	-2	---	---	1950	2050
19	939	-24	-7	130	249	-8	---	---	1278	1378
20	49	-41	-3	130	249	-15	---	---	369	469
21	49	-60	8	130	249	-22	---	---	353	453
22	49	-80	17	130	249	-30	---	---	335	435
23	49	-100	23	130	249	-38	---	---	313	413
24	49	-119	28	---	---	-45	---	---	-87	-87

Peak Total Gain	2352 at 16 hrs = 36.2 W/m ³
Air Quantity Required	0.151 m ³ /s at 13.0 C = 8.7 ac/h = 75.4 l/s/p
Room Temperature	25.0 °C
Humidity	50 %
Latent Gain: People	100 W
Infiltration	-20 W
Total	80 W

Note:- Total W column includes latent gains for people.

Heatgains for Room 41

NAME: PH 5 - Bed 2

Zone: 4

Copies: 1

DATE: Jul 21

hr	Glazing		Fabric W	People W	Lights +Equip W	Infil W	Sens. Vent W	Latent Vent W	Total Sens. W	Total W
	Solar W	Trans W								
1	10	-36	19	130	125	-26	---	---	221	321
2	10	-40	25	130	125	-29	---	---	221	321
3	10	-43	28	130	125	-31	---	---	219	319
4	10	-45	24	130	125	-32	---	---	211	311
5	35	-46	10	130	125	-33	---	---	222	322
6	59	-44	-12	130	125	-32	---	---	226	326
7	81	-41	-14	130	125	-30	---	---	251	351
8	99	-36	-16	130	125	-26	---	---	277	377
9	116	-29	-18	130	125	-21	---	---	303	403
10	129	-21	-20	130	125	-15	---	---	327	427
11	137	-14	-22	130	125	-10	---	---	346	446
12	140	-7	-24	130	125	-5	---	---	359	459
13	137	-2	-25	130	125	-1	---	---	365	465
14	163	1	-26	130	125	2	---	---	395	495
15	324	3	-21	130	125	3	---	---	563	663
16	452	2	-17	130	125	2	---	---	694	794
17	522	0	-14	130	125	1	---	---	764	864
18	496	-3	-12	130	125	-1	---	---	736	836
19	321	-6	-9	130	125	-4	---	---	557	657
20	10	-11	-7	130	125	-7	---	---	240	340
21	10	-16	-2	130	125	-11	---	---	236	336
22	10	-21	2	130	125	-15	---	---	231	331
23	10	-27	5	130	125	-19	---	---	225	325
24	10	-32	9	---	---	-23	---	---	-36	-36

Peak Total Gain	864 at 17 hrs = 24.5 W/m ³
Air Quantity Required	0.051 m ³ /s at 13.0 C = 5.9 ac/h = 25.6 l/s/p
Room Temperature	25.0 °C
Humidity	50 %
Latent Gain: People	100 W
Infiltration	-10 W
Total	90 W

Note:- Total W column includes latent gains for people.

Heatgains for Room 43

NAME: PH 5 - Bed 3	Zone: 4	Copies: 1	DATE: Jul 21
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hr	Glazing		Fabric W	People W	Lights +Equip W	Infil W	Sens. Vent W	Latent Vent W	Total Sens. W	Total W
	Solar W	Trans W								
1	30	-63	83	140	41	-31	---	---	201	291
2	30	-70	80	140	41	-35	---	---	187	277
3	30	-75	74	140	41	-37	---	---	173	263
4	30	-79	65	140	41	-39	---	---	159	249
5	78	-80	54	140	41	-40	---	---	193	283
6	123	-78	44	140	41	-39	---	---	232	322
7	165	-71	42	140	41	-35	---	---	281	371
8	200	-61	40	140	41	-30	---	---	330	420
9	232	-48	38	140	41	-24	---	---	379	469
10	264	-34	36	140	41	-16	---	---	431	521
11	613	-20	35	140	41	-9	---	---	800	890
12	916	-7	34	140	41	-3	---	---	1121	1211
13	1140	3	33	140	41	2	---	---	1359	1449
14	1261	10	32	140	41	6	---	---	1489	1579
15	1264	12	35	140	41	7	---	---	1499	1589
16	1149	11	38	140	41	6	---	---	1386	1476
17	926	8	42	140	41	5	---	---	1161	1251
18	613	2	46	140	41	2	---	---	844	934
19	265	-5	50	140	41	-2	---	---	489	579
20	30	-14	53	140	41	-6	---	---	244	334
21	30	-24	64	140	41	-11	---	---	240	330
22	30	-34	73	140	41	-16	---	---	234	324
23	30	-44	79	140	41	-22	---	---	224	314
24	30	-54	81	---	---	-26	---	---	31	31

Peak Total Gain	1589 at 15 hrs = 36.6 W/m ³
Air Quantity Required	0.100 m ³ /s at 12.0 C = 8.8 ac/h = 50.0 l/s/p
Room Temperature	24.0 °C
Humidity	50 %
Latent Gain:	90 W
People	-8 W
Infiltration	82 W
Total	

Note:- Total W column includes latent gains for people.

Heatgains for Room 47

NAME: PH 5 - Lounge/Kitchen	Zone: 4	Copies: 1	DATE: Jul 21
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hr	Glazing		Fabric W	People W	Lights +Equip W	Infil W	Sens. Vent W	Latent Vent W	Total Sens. W	Total W
	Solar W	Trans W								
1	108	-207	79	390	504	-106	---	---	769	1069
2	108	-228	74	390	504	-117	---	---	731	1031
3	108	-244	65	390	504	-126	---	---	697	997
4	108	-254	51	390	504	-131	---	---	668	968
5	631	-258	35	390	504	-133	---	---	1169	1469
6	1312	-251	21	390	504	-129	---	---	1846	2146
7	1897	-232	16	390	504	-119	---	---	2455	2755
8	2300	-202	10	390	504	-103	---	---	2899	3199
9	2503	-164	5	390	504	-83	---	---	3154	3454
10	2497	-122	0	390	504	-61	---	---	3207	3507
11	2682	-81	-5	390	504	-39	---	---	3452	3752
12	2638	-43	-9	390	504	-19	---	---	3462	3762
13	2370	-13	-11	390	504	-3	---	---	3236	3536
14	2015	6	-13	390	504	7	---	---	2910	3210
15	1976	13	9	390	504	11	---	---	2902	3202
16	1779	9	37	390	504	9	---	---	2728	3028
17	1443	-1	62	390	504	4	---	---	2402	2702
18	985	-17	81	390	504	-5	---	---	1939	2239
19	479	-38	93	390	504	-16	---	---	1411	1711
20	108	-64	98	390	504	-30	---	---	1006	1306
21	108	-92	104	390	504	-45	---	---	969	1269
22	108	-122	102	390	504	-61	---	---	921	1221
23	108	-153	92	390	504	-77	---	---	865	1165
24	108	-181	79	---	---	-92	---	---	-86	-86

Peak Total Gain	3762 at 12 hrs = 27.5 W/m ³
Air Quantity Required	0.232 m ³ /s at 13.0 C = 6.6 ac/h = 38.6 l/s/p
Room Temperature	25.0 °C
Humidity	50 %
Latent Gain:	300 W
People	-40 W
Infiltration	260 W
Total	

Note:- Total W column includes latent gains for people.

Heatgains for Room 51

NAME: PH 6 - Bed 1

Zone: 4

Copies: 1

DATE: Jul 21

hr	Glazing		Fabric W	People W	Lights +Equip W	Infil W	Sens. Vent W	Latent Vent W	Total Sens. W	Total W
	Solar W	Trans W								
1	10	-35	1	130	159	-33	---	---	231	331
2	10	-39	7	130	159	-37	---	---	230	330
3	10	-42	8	130	159	-40	---	---	226	326
4	10	-44	5	130	159	-41	---	---	219	319
5	34	-44	-7	130	159	-42	---	---	230	330
6	57	-43	-25	130	159	-41	---	---	237	337
7	79	-40	-27	130	159	-37	---	---	263	363
8	96	-35	-29	130	159	-32	---	---	289	389
9	113	-28	-30	130	159	-26	---	---	316	416
10	126	-21	-32	130	159	-19	---	---	342	442
11	133	-14	-34	130	159	-12	---	---	362	462
12	136	-7	-35	130	159	-6	---	---	376	476
13	133	-2	-36	130	159	-1	---	---	383	483
14	158	1	-37	130	159	2	---	---	413	513
15	314	3	-33	130	159	3	---	---	575	675
16	438	2	-30	130	159	3	---	---	701	801
17	506	0	-28	130	159	1	---	---	768	868
18	481	-3	-26	130	159	-2	---	---	740	840
19	312	-6	-23	130	159	-5	---	---	566	666
20	10	-11	-21	130	159	-9	---	---	258	358
21	10	-16	-17	130	159	-14	---	---	253	353
22	10	-21	-13	130	159	-19	---	---	246	346
23	10	-26	-10	130	159	-24	---	---	238	338
24	10	-31	-8	---	---	-29	---	---	-57	-57

Peak Total Gain	868 at 17 hrs = 19.4 W/m ³
Air Quantity Required	0.051 m ³ /s at 13.0 C = 4.7 ac/h = 25.7 l/s/p
Room Temperature	25.0 °C
Humidity	50 %
Latent Gain: People	100 W
Infiltration	-13 W
Total	87 W

Note:- Total W column includes latent gains for people.

Heatgains for Room 53

NAME: PH 6 - Bed 2	Zone: 4	Copies: 1	DATE: Jul 21
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hr	Glazing		Fabric W	People W	Lights +Equip W	Infil W	Sens. Vent W	Latent Vent W	Total Sens. W	Total W
Solar W	Trans W									
1	40	-136	32	130	218	-46	---	---	237	337
2	40	-151	39	130	218	-51	---	---	225	325
3	40	-161	41	130	218	-54	---	---	213	313
4	40	-168	35	130	218	-57	---	---	198	298
5	519	-170	20	130	218	-57	---	---	660	760
6	802	-166	-4	130	218	-56	---	---	924	1024
7	875	-153	-7	130	218	-51	---	---	1011	1111
8	811	-133	-10	130	218	-45	---	---	971	1071
9	669	-108	-13	130	218	-36	---	---	859	959
10	484	-80	-16	130	218	-26	---	---	709	809
11	513	-52	-19	130	218	-17	---	---	773	873
12	523	-27	-21	130	218	-8	---	---	814	914
13	513	-8	-22	130	218	-1	---	---	829	929
14	561	5	-23	130	218	3	---	---	894	994
15	919	10	-12	130	218	5	---	---	1269	1369
16	1196	7	-4	130	218	4	---	---	1551	1651
17	1334	1	1	130	218	2	---	---	1686	1786
18	1243	-10	4	130	218	-2	---	---	1583	1683
19	802	-24	6	130	218	-7	---	---	1124	1224
20	40	-41	6	130	218	-13	---	---	339	439
21	40	-60	12	130	218	-20	---	---	320	420
22	40	-80	16	130	218	-26	---	---	297	397
23	40	-100	19	130	218	-33	---	---	273	373
24	40	-119	22	---	---	-40	---	---	-98	-98

Peak Total Gain	1786 at 17 hrs = 31.0 W/m ³
Air Quantity Required	0.113 m ³ /s at 13.0 C = 7.5 ac/h = 56.5 l/s/p
Room Temperature	25.0 °C
Humidity	50 %
Latent Gain: People	100 W
Infiltration	-17 W
Total	83 W

Note:- Total W column includes latent gains for people.

Heatgains for Room 55

NAME: PH 6 - Lounge/Kitchen	Zone: 4	Copies: 1	DATE: Jul 21
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hr	Glazing		Fabric W	People W	Lights +Equip W	Infil W	Sens. Vent W	Latent Vent W	Total Sens. W	Total W
	Solar W	Trans W								
1	91	-205	38	390	496	-104	---	---	706	1006
2	91	-227	35	390	496	-115	---	---	670	970
3	91	-243	29	390	496	-124	---	---	640	940
4	91	-253	21	390	496	-129	---	---	616	916
5	1264	-256	11	390	496	-131	---	---	1775	2075
6	2268	-250	0	390	496	-127	---	---	2777	3077
7	2834	-230	-5	390	496	-117	---	---	3368	3668
8	3010	-201	-10	390	496	-102	---	---	3584	3884
9	2863	-163	-15	390	496	-82	---	---	3489	3789
10	2451	-122	-20	390	496	-60	---	---	3135	3435
11	2226	-80	-24	390	496	-38	---	---	2969	3269
12	1818	-43	-28	390	496	-19	---	---	2615	2915
13	1272	-13	-31	390	496	-3	---	---	2111	2411
14	755	6	-33	390	496	7	---	---	1622	1922
15	679	13	-2	390	496	10	---	---	1587	1887
16	585	9	30	390	496	9	---	---	1520	1820
17	483	-1	54	390	496	3	---	---	1427	1727
18	361	-17	69	390	496	-5	---	---	1296	1596
19	229	-38	76	390	496	-16	---	---	1137	1437
20	91	-63	74	390	496	-30	---	---	959	1259
21	91	-92	75	390	496	-44	---	---	916	1216
22	91	-122	68	390	496	-60	---	---	863	1163
23	91	-152	54	390	496	-76	---	---	804	1104
24	91	-180	39	---	---	-91	---	---	-141	-141

Peak Total Gain	3884 at 8 hrs = 28.9 W/m ³
Air Quantity Required	0.240 m ³ /s at 13.0 C = 7.0 ac/h = 40.0 l/s/p
Room Temperature	25.0 °C
Humidity	50 %
Latent Gain: People	300 W
Infiltration	-40 W
Total	260 W

Note:- Total W column includes latent gains for people.

Heatgains for Room 56

NAME: PH 6 - Bed 3

Zone: 4

Copies: 1

DATE: Jul 21

hr	Glazing		Fabric W	People W	Lights +Equip W	Infil W	Sens. Vent W	Latent Vent W	Total Sens. W	Total W
	Solar W	Trans W								
1	10	-35	-3	130	123	-26	---	---	199	299
2	10	-39	-3	130	123	-29	---	---	192	292
3	10	-41	-4	130	123	-31	---	---	186	286
4	10	-43	-6	130	123	-32	---	---	182	282
5	300	-44	-8	130	123	-32	---	---	468	568
6	455	-42	-12	130	123	-31	---	---	622	722
7	471	-39	-13	130	123	-29	---	---	642	742
8	398	-34	-14	130	123	-25	---	---	577	677
9	272	-28	-15	130	123	-20	---	---	462	562
10	124	-21	-17	130	123	-15	---	---	324	424
11	131	-13	-18	130	123	-9	---	---	343	443
12	134	-7	-19	130	123	-5	---	---	356	456
13	131	-2	-19	130	123	-1	---	---	362	462
14	124	1	-20	130	123	2	---	---	359	459
15	111	2	-8	130	123	3	---	---	360	460
16	94	2	-1	130	123	2	---	---	350	450
17	77	0	1	130	123	1	---	---	332	432
18	56	-3	0	130	123	-1	---	---	305	405
19	34	-6	-3	130	123	-4	---	---	273	373
20	10	-11	-7	130	123	-7	---	---	238	338
21	10	-15	-5	130	123	-11	---	---	231	331
22	10	-21	-4	130	123	-15	---	---	223	323
23	10	-26	-3	130	123	-19	---	---	215	315
24	10	-31	-3	---	---	-22	---	---	-47	-47

Peak Total Gain	742 at 7 hrs = 21.0 W/m ³
Air Quantity Required	0.043 m ³ /s at 13.0 C = 5.1 ac/h = 21.5 l/s/p
Room Temperature	25.0 °C
Humidity	50 %
Latent Gain: People	100 W
Infiltration	-10 W
Total	90 W

Note:- Total W column includes latent gains for people.

Summary of Peak Sensible and Latent Room Heatgains in kW

ROOM	ROOM NAME	SENSIBLE	LATENT	m ³ /s	=ac/h
8	3D - Lounge/Kitchen	2.37	0.27	0.159	5.4
9	3D - Bed 1	0.54	0.09	0.036	4.2
10	3D - Bed 2	0.54	0.09	0.036	4.3
11	3D - Bed 3	0.57	0.09	0.038	3.5
15	3A - Lounge/Kitchen	2.53	0.27	0.170	5.8
16	3A - Bed 1	0.63	0.09	0.042	5.0
17	3A - Bed 2	0.63	0.09	0.042	4.9
18	3A - Bed 3	0.62	0.09	0.042	3.7
25	1D - Bed 1	0.52	0.09	0.035	4.4
26	1D - Lounge/Kitchen	1.22	0.08	0.082	4.1
28	1B - Bed 1	0.60	0.09	0.040	4.7
30	1B - Lounge/Kitchen	1.42	0.07	0.095	4.3
31	2D - Bed 1	0.57	0.09	0.038	3.7
32	2D - Bed 2	0.55	0.09	0.037	4.5
37	2D - lounge/kitchen	1.49	0.17	0.100	4.4
40	PH 5 - Bed 1	2.25	0.08	0.151	8.7
41	PH 5 - Bed 2	0.76	0.09	0.051	5.9
43	PH 5 - Bed 3	1.50	0.08	0.100	8.8
47	PH 5 - Lounge/Kitchen	3.46	0.26	0.232	6.6
51	PH 6 - Bed 1	0.77	0.09	0.051	4.7
53	PH 6 - Bed 2	1.69	0.08	0.113	7.5
55	PH 6 - Lounge/Kitchen	3.58	0.26	0.240	7.0
56	PH 6 - Bed 3	0.64	0.09	0.043	5.1
TOTAL				1.973	

m³/s: air quantity for maximum heatgain