

GENERATOR

KW: 300kW
KVA: 375KVA

Volts: 480/277 Wye
Phases: 3
Wires: 4

WIREWAY USED FOR GENERATOR LOAD CALCULATIONS ONLY

CKT	Circuit Description	# of Poles	Trip Rating	Load	Remarks
1	CH-1 CHILLER	3	175 A	105087 VA	
2	PANEL EDP	3	400 A	321931 VA	
3	SPACE ONLY	3	--	--	
4	SPACE ONLY	3	--	--	
5	SPACE ONLY	3	--	--	
6	SPACE ONLY	3	--	--	
				423777 VA	
				510 A	

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals
HVAC	37252 VA	70.00%	26076 VA	
LTS	11091 VA	100.00%	11091 VA	
Motor	5472 VA	70.00%	3830 VA	
Power	90 VA	100.00%	90 VA	
HEAT	163587 VA	60.00%	98152 VA	
EQUIP	121714 VA	80.00%	97371 VA	
REC	81980 VA	56.10%	45990 VA	
				Total Est. Demand Current: 342 A

Notes:

DO NOT PROVIDE A PANELBOARD. SCHEDULE USED FOR GENERATOR LOAD CALCULATION ONLY

Branch Panel: EQL

Location: EMERG ELEC RM
Supply From: T-EQL
Mounting: Surface
Enclosure: Type 1
Electrical Branch: EQUIPMENT

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 10000 A
Fault Current: 3177 A
Mains Type: 150A M.C.B.
Mains Rating: 150 A
Overcurrent Protection: 150 A

Notes:

NEW PANEL

CKT	Circuit Description	Demand Code	TRIP	P	A	B	C	P	TRIP	Demand Code	Circuit Description	CKT
1	REC - RTU-1 CNTLS/REC	REC...	20 A	1	360	1332			2	25 A	HVAC	2
2	REC - RTU-2 CNTLS/REC	REC...	20 A	1		360	1332		2	25 A	HVAC	4
5	FIRE/SMOKE DAMPERS	Motor...	20 A	1			200	1165	2	20 A	HVAC	6
7	EF-1.1 (1/4HP)	Motor...	15 A	1	876	1165			2	20 A	HVAC	8
9	EF-2.1 (1/8HP)	Motor...	15 A	1		528	832		2	15 A	HVAC	10
11	EF-2.2 (1/4HP)	Motor...	20 A	1			876	832	2	15 A	HVAC	12
13	EF-2.3EF: (2 @1/8HP)	Motor...	15 A	1	876	1104			2	20 A	Motor	14
15	EF-MG (1/6HP)	Motor	15 A	1		528	1104		2	20 A	Motor	16
17	CP-1 (1/16HP)	Motor	15 A	1			300	1840	2	30 A	REC	18
19	STERILIZER CONTROLS	REC	20 A	1	360	1840			2	30 A	REC	20
21	B2.3 - I.T. RM	Motor	20 A	1		0			3	30 A	--	22
23							467					24
25	MONUMENT SIGN	LTS	20 A	3	467							26
27						467						28
29							1000					30
31	FOUNTAIN (GFI BRKR)	EQUIP	20 A	3	1000							32
33						1000						34
35							1000					36
37	FOUNTAIN (GFI BRKR)	EQUIP	20 A	3	1000	0			3	30 A	--	38
39						1000	0					40
41							0					42
				Total Load:		10379 VA	7150 VA	7679 VA				
				Total Amps:		87 A	60 A	65 A				

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals
HVAC	6656 VA	70.00%	4659 VA	
LTS	1400 VA	100.00%	1400 VA	
Motor	5472 VA	70.00%	3830 VA	
EQUIP	6360 VA	80.00%	5088 VA	
REC	5120 VA	100.00%	5120 VA	
Motor - Hospital	200 VA	85.00%	170 VA	
				Total Est. Demand Current: 56 A

Notes:

Branch Panel: LS

Location: EMERG. ELEC RM
Supply From: T-LS
Mounting: Surface
Enclosure: Type 1
Electrical Branch: LIFE SAFETY

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 10000 A
Fault Current: 1690 A
Mains Type: M.C.B.
Mains Rating: 100 A
Overcurrent Protection: 100 A

Notes:

NEW PANEL

CKT	Circuit Description	Demand Code	TRIP	P	A	B	C	P	TRIP	Demand Code	Circuit Description	CKT
1	LTS - INTERIOR	LTS	20 A	1	837	0			3	30 A	--	2
3	LTS - EXTERIOR SERV YARD	LTS	20 A	1		733	0		3	30 A	--	4
5	REC - EMER. ELEC.RM.	REC	20 A	1			180	0	2	20 A	REC	6
7	AUTODOORS	Motor...	20 A	1	90	1000			2	20 A	REC	8
9	DPA (OR) & MGA (RECEP.)	GEN	20 A	1		200	1000		1	20 A	REC	10
11	DPA (PROC RM) & MGA...	GEN	20 A	1			300	180	1	20 A	REC	12
13	LPA, MGA (MURSE STN)	GEN	20 A	1	400	500			1	20 A	GEN	14
15	MED GAS MANIFOLDS	EQUIP	20 A	1		360	334		2	20 A	Lighting	16
17	LTS - EXTERIOR BLDG LTS	LTS	20 A	1			416	334	2	20 A	--	18
19	LTS - ILLUMINATED HANDRAIL	LTS	20 A	1	88	0			1	20 A	--	20
21	SPARE	--	20 A	1		0	0		1	20 A	--	22
23	SPARE	--	20 A	1				0	1	20 A	--	24
25	SPARE	--	20 A	1	0	0			1	20 A	--	26
27	SPARE	--	20 A	1		0	0		1	20 A	--	28
29	SPARE	--	20 A	1			0	0	1	20 A	--	30
31	SPACE ONLY	--	--	1	--	--			1	--	SPACE ONLY	32
33	SPACE ONLY	--	--	1			--	--	1	--	SPACE ONLY	34
35	SPACE ONLY	--	--	1			--	--	1	--	SPACE ONLY	36
37	SPACE ONLY	--	--	1	--	--			1	--	SPACE ONLY	38
39	SPACE ONLY	--	--	1			--	--	1	--	SPACE ONLY	40
41	SPACE ONLY	--	--	1			--	--	1	--	SPACE ONLY	42
				Total Load:		2914 VA	2627 VA	1410 VA				
				Total Amps:		26 A	23 A	12 A				

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals
LTS	2073 VA	100.00%	2073 VA	
Motor	0 VA	0.00%	0 VA	
Power	90 VA	100.00%	90 VA	
EQUIP	360 VA	80.00%	288 VA	
REC	2360 VA	100.00%	2360 VA	
GEN	1400 VA	80.00%	1120 VA	
				Total Est. Demand Current: 17 A

Notes:

Distribution Panel: EDP

Location: EMER.ELEC.RM.
Supply From: GENERATOR
Mounting: Surface
Enclosure: Type 1
Electrical Branch: ESSENTIAL

Volts: 480/277 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 35000 A
Fault Current: 3448 A
Mains Type: M.L.O.
Mains Rating: 400 A
Overcurrent Protection: 400 A

Notes:

New Panel

CKT	Circuit Description	# of Poles	Trip Rating	Load	Remarks
1	ATS-LS	3	45 A	6950 VA	
2	ATS-EQ	3	300 A	226698 VA	
3	ATS-EC	3	200 A	88295 VA	
4	TVSS	3	30 A	0 VA	
5	SPACE ONLY	3	--	--	
6	SPACE ONLY	3	--	--	
7	SPACE ONLY	3	--	--	
8	SPACE ONLY	3	--	--	
9	SPACE ONLY	3	--	--	
10	SPACE ONLY	3	--	--	
				318691 VA	
				383 A	

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals
HVAC	37252 VA	70.00%	26076 VA	
LTS	11091 VA	100.00%	11091 VA	
Motor	5472 VA	70.00%	3830 VA	
Power	90 VA	100.00%	90 VA	
HEAT	58500 VA	60.00%	35100 VA	
EQUIP	121714 VA	80.00%	97371 VA	
REC	81980 VA	56.10%	45990 VA	
				Total Est. Demand Current: 266 A

Notes:

Branch Panel: EQH

Location: EMERG ELEC RM
Supply From: ATS-EQ
Mounting: Surface
Enclosure: Type 1
Electrical Branch: EQUIPMENT BRANCH

Volts: 480/277 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 35000 A
Fault Current: 22134 A
Mains Type: 300A M.L.O.
Mains Rating: 300 A
Overcurrent Protection: 300 A

Notes:

NEW PANEL

CKT	Circuit Description	Demand Code	TRIP	P	A	B	C	P	TRIP	Demand Code	Circuit Description	CKT
1	T-EQL (45KVA)	HVAC; Motor; REC...	70 A	3	10379	5833			3	30 A	HEAT	2
3						7150	5833		3	30 A	HEAT	4
5							7679	5833				6
7	RTU-1 (RETURN)	HVAC	15 A	3	1995	5833			3	30 A	HEAT	8
9						1995	5833		3	30 A	HEAT	10
11							1995	5833				12
13						3991	2500		3	15 A	HEAT	14
15	RTU-1 (SUPPLY)	HVAC	25 A	3		3991	2500		3	15 A	HEAT	16
17							3991	2500				18
19						2661	2500		3	15 A	HEAT	20
21	RTU-2 (SUPPLY)	HVAC	15 A	3		2661	2500		3	15 A	HEAT	22
23							2661	2500				24
25						1552	1000		3	15 A	HEAT	26
27	RTU-2 (RETURN)	HVAC	15 A	3		1552	1000		3	15 A	HEAT	28
29							1552	1000				30
31						22333	2661		3	15 A	EQUIP	32
33	STERILIZER	EQUIP	100 A	3		22333	2661		3	15 A	EQUIP	34
35						12471	0		3	30 A	--	36
37						12471	0		3	30 A	--	38
39	WASHER DISINFECTOR	EQUIP	60 A	3		12471	0		3	30 A	--	40
41							12471	0				42
43	B2.5 & B2.6 - RECOVMED	HEAT	15 A	1	2500							44
45	B2.11 - RECOVERY	HEAT	15 A	1		3000						46
47												48
49												50
51												52
53												54
55												56
57												58
59												60
				Total Load:		78209 VA	75480 VA	73009 VA				
				Total Amps:		284 A	274 A	264 A				

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
HVAC	37252 VA	70.00%	26076 VA		
LTS	1400 VA	100.00%	1400 VA	Total Conn. Load:	226698 VA
Motor	5472 VA	70.00%	3830 VA	Total Est. Demand:	166700 VA
HEAT	58500 VA	60.00%	35100 VA	Total Conn. Current:	273 A
EQUIP	118754 VA	80.00%	95003 VA	Total Est. Demand Current:	201 A
REC	5120 VA	100.00%	5120 VA		
Motor - Hospital	200 VA	85.00%	170 VA		