

## STEAM BOILER

SYMBOL	MFGR/ MODEL	CAP(KW)		OUTPUT (#/HR)	FLOW (L/S)	ELECTRICAL		REMARKS
		IN	OUT			FLA	V/Ø	
SB-01	CLAYTON/SF-50-SE	576	490	1725	0.28	7.7	575/3	PACKAGED SKID MOUNTED DUPLEX STEAM BOILER SYSTEM
SB-02	CLAYTON/SF-50-SE	576	490	1725	0.28	7.7	575/3	PACKAGED SKID MOUNTED DUPLEX STEAM BOILER SYSTEM

## UNIT HEATER SCHEDULE

UNIT NO.	MFGR/MODEL	AIR FLOW (L/s)	WATER FLOW (L/s)	AWT (°C)	ΔT (°C)	HEATING OUTPUT (W)	ELECTRIC MOTOR		REMARKS
							(W)	(R.P.M.) V/Ø/H	
CUH-1	ENGINEERED AIR / CUH-1	87	0.055	74	22	4,075	30	1050 115/1/60	EXPOSED CEILING CABINET. (SEE MANUFACTURER ARRANGEMENT #24)
CUH-2	ENGINEERED AIR / CUH-1	87	0.055	74	22	4,075	30	1050 115/1/60	SEMI-RECESSED WALL CABINET. (SEE MANUFACTURER ARRANGEMENT #18)
CUH-3	ENGINEERED AIR / CUH-1	87	0.055	74	22	4,075	30	1050 115/1/60	SEMI-RECESSED WALL CABINET. (SEE MANUFACTURER ARRANGEMENT #18)
CUH-4	ENGINEERED AIR / CUH-5	228	0.099	74	22	9,125	37	1075 115/1/60	FULLY RECESSED CEILING CABINET. (SEE MANUFACTURER ARRANGEMENT #24)
CUH-5	ENGINEERED AIR / CUH-5	228	0.099	74	22	9,125	37	1075 115/1/60	FULLY RECESSED CEILING CABINET. (SEE MANUFACTURER ARRANGEMENT #24)
CUH-6	ENGINEERED AIR / CUH-1	87	0.055	74	22	4,075	30	1050 115/1/60	SEMI-RECESSED WALL CABINET. (SEE MANUFACTURER ARRANGEMENT #18)
UH-1	ENGINEERED AIR / H1	260	0.095	74	22	7,100	37	1500 115/1/60	HORIZONTAL, HUNG FROM CEILING SPACE IN MECHANICAL ROOM
UH-2	ENGINEERED AIR / H1	260	0.095	74	22	7,100	37	1500 115/1/60	HORIZONTAL, HUNG FROM CEILING SPACE IN MECHANICAL ROOM

## HEAT EXCHANGER SCHEDULE

UNIT NO.	MFGR/ MODEL	PRIMARY SIDE				SECONDARY SIDE				SERVICE	REMARKS
		FLUID	FLOW (L/S)	INLET TEMP. (°C)	OUTLET TEMP. (°C)	FLUID	FLOW (L/S)	INLET TEMP. (°C)	OUTLET TEMP. (°C)		
HX-1 & HX-2	B&G	WATER	1.12	85.0	62.8	7.6	WATER	2.24	90.6	79.4	BUILDING HEAT RATED PERFORMANCE FOR EACH HX-1 & HX-2 DESIGN PRESSURE 1034 kPa. FULLY REDUNDANT DUPLEX HEAT EXCHANGERS.
HX-3 & HX-4	B&G	50% GLYCOL	6.66	26.7	37.8	33.8	WATER	6.17	90.6	79.4	AHU HEATING COILS RATED PERFORMANCE FOR EACH HX-3 & HX-4 DESIGN PRESSURE 1034 kPa. FULLY REDUNDANT DUPLEX HEAT EXCHANGERS.

## AIR HANDLING UNITS SCHEDULE

UNIT NO.	MFGR/MODEL	DESCRIPTION	AREA SERVED	LOCATION	SUPPLY FAN					COOLING					HEATING								FILTER			MIN O/A (L/S)	REMARKS			
					TYPE	L/S	ESP (PA)	TSP (PA)	ELECTRICAL		TYPE	EDB/EWB (°C)	LDB/LWB (°C)	APD (PA)	ROWS /FPI	CAP (KW)		TYPE	AIR			50% PROP. GLY.			TYPE			DEPTH	MERV	
									KW	V/Ø						TOTAL	SENS		EDB (°C)	LDB (°C)	PD (PA)	EWI (°C)	LWT (°C)	FLOW (L/S)						PD (KPA)
AHU-1	DAIKIN APPLIED / VISION	INDOOR AIR HANDLING UNIT	COOK/CHILL PRODUCTION	MECHANICAL ROOM	CENTRIFUGAL FORWARD CURVED	4,340	249	879	11.2	575/3	DIRECT EXPANSION	27.8/21.1	14.9/13.9	134	4/12	114	68.2	50% PROP. GLYCOL	-23.9	20.1	92	37.8	26.4	5.64	25.7	2-STAGE	PRE: 50 FINAL: 100	PRE: 7 FINAL: 14	4,340	REFER TO DETAILS FOR UNIT LAYOUT. MATCHING CONDENSING UNIT TO BE PROVIDED AS PER SCHEDULE. FAN TO BE VRD CONTROLLED.
AHU-2	DAIKIN APPLIED / VISION	INDOOR AIR HANDLING UNIT	OFFICE AREA	MECHANICAL ROOM	CENTRIFUGAL FORWARD CURVED	1,340	311	990	3.73	575/3	DIRECT EXPANSION	26.7/20.0	12.3/11.6	172	6/9	39.1	23.5	50% PROP. GLYCOL	-4.4	18.9	79.7	37.8	26.4	0.94	12.3	2-STAGE	PRE: 50 FINAL: 100	PRE: 7 FINAL: 14	575	REFER TO DETAILS FOR UNIT LAYOUT. MATCHING CONDENSING UNIT TO BE PROVIDED AS PER SCHEDULE.

## CONDENSING UNIT SCHEDULE

UNIT NO.	LOCATION	AREA SERVED	MFGR	MODEL	REFRIGERATION EFFECT (KW)	COMPRESSOR	REFRIGERANT	EER	POWER	ELECTRICAL	MCA	WEIGHT (KG)	REMARKS
CU-1	ROOF	AHU-1	MCQUAY	RCS035D	113	SCROLL	R410A	11.3	34	575/3/60	58.6	1,120	CONDENSING UNIT TO MATCH AHU-1, C/W FACTORY SUPPLIED ROOF CURB
CU-2	ROOF	AHU-2	MCQUAY	RCS12F150Y	40	SCROLL	R410A	11.3	12.1	575/3/60	20.0	290	CONDENSING UNIT TO MATCH AHU-2, C/W FACTORY SUPPLIED ROOF CURB

## AIR CONDITIONER SCHEDULE

UNIT NO.	LOCATION	AREA SERVED	MFGR	MODEL	COOLING CAPACITY (KW)	SEER	MCA	ELECTRICAL SERVICE	REMARKS
AC-1	ELECTRICAL ROOM	ELECTRICAL/LAN ROOM	DAIKIN/MCQUAY	FTXS30LVJU	8.8	19.3	19.5	208/1	C/W MATCHING CONDENSING UNIT (CU-3) MODEL NUMBER RKSS30LVJU. COOLING ONLY UNIT C/W LOW AMBIENT KIT

## FAN SCHEDULE

UNIT NO.	LOCATION	SERVICE	MFGR	MODEL	TYPE	AIRFLOW (L/S)	TOTAL STATIC PRESSURE (Pa)	FAN POWER (W)	MAX FAN SPEED (RPM)	BACK DAMPER	DISC. SWITCH	ELECTRICAL MOTOR		REMARKS
												WATTS	V/Ø	
EF-1	COOK/CHILL PRODUCTION	EXHAUST	GREENHECK	CUBE-161-5	BELT DRIVE UPBLAST CENTRIFUGAL	960	187	358	1,055	YES	YES	373	575/3	C/W FACTORY SUPPLIED DISCONNECT AND FACTORY ROOF CURB
EF-2	COOK/CHILL PRODUCTION	EXHAUST	GREENHECK	CUBE-180-7	BELT DRIVE UPBLAST CENTRIFUGAL	1,320	187	515	1,014	YES	YES	560	575/3	C/W FACTORY SUPPLIED DISCONNECT AND FACTORY ROOF CURB
EF-3	WAREWASH	EXHAUST	GREENHECK	CUBE-161-5	BELT DRIVE UPBLAST CENTRIFUGAL	945	187	350	1,044	YES	YES	373	575/3	C/W FACTORY SUPPLIED DISCONNECT AND FACTORY ROOF CURB
EF-4	CHEMICAL ROOM	EXHAUST	GREENHECK	CUBE-080-VG	DIRECT DRIVE UPBLAST CENTRIFUGAL	125	125	45	1,600	YES	YES	124	115/1	C/W FACTORY SUPPLIED DISCONNECT AND FACTORY ROOF CURB
EF-5	COOK/CHILL PRODUCTION	EXHAUST	GREENHECK	CUBE-180-7	BELT DRIVE UPBLAST CENTRIFUGAL	1,320	187	515	1,014	YES	YES	560	575/3	C/W FACTORY SUPPLIED DISCONNECT AND FACTORY ROOF CURB
TF-1	ELECTRICAL ROOM	TRANSFER	GREENHECK	CSP-A510	CEILING CONCEALED INLINE CABINET	240	25	217	1,070	NO	YES	217	115/1	C/W FACTORY SUPPLIED DISCONNECT

## ERV SCHEDULE

UNIT NO.	LOCATION	AREA SERVED	MFGR	MODEL	SUPPLY AIR CAPACITY (L/S)	EXHAUST AIR CAPACITY (L/S)	EXTERNAL STATIC PRESSURE SUPPLY (kPa)	EXTERNAL STATIC PRESSURE EXHAUST (kPa)	SUPPLY FAN MOTOR (kW)	EXHAUST FAN MOTOR (kW)	ELECTRICAL SERVICE	REMARKS
ERV-1	MECHANICAL ROOM	AHU-2	GREENHECK	ERV-20-30L	765	765	124	124	0.746	0.746	208/3	

## SUPPLY DIFFUSER &amp; GRILLE SCHEDULE

SYMBOL	MFGR/MODEL	TYPE	SIZE (mm)	CAPACITY (L/s)	REMARKS
S-1	EH PRICE/600X600 SPD/31/B12	SQUARE PLAQUE	600X600	AS SHOWN	PAINTED STEEL, MOUNTING TO SUIT CEILING TYPE, POWDER COAT FINISH COLOR: WHITE
S-2	EH PRICE/RFD/600/300X300/2W	RADIAL FLOW	600X1200	AS SHOWN	PERFORATED FACE, ALUMINIUM CONSTRUCTION, MOUNTING TO SUIT CEILING TYPE, HINGED FACE WITH ANGLED DEFLECTOR BLADES, POWDER COAT FINISH COLOR: WHITE
S-3	EH PRICE/520/F/L/O/B12	DOUBLE DEFLECTION STEEL GRILLE	AS INDICATED	AS SHOWN	STEEL DOUBLE DEFLECTION GRILLE.
R-1/T-1	EH PRICE/630/B12	ALUMINUM, SINGLE DEFLECTION	AS SHOWN	AS SHOWN	ALUMINUM EGGRATE, MOUNTING TO SUIT CEILING TYPE, POWDER COAT FINISH COLOR: WHITE
E-1	EH PRICE/630/B12	ALUMINUM, SINGLE DEFLECTION	AS SHOWN	AS SHOWN	ALUMINUM EGGRATE, MOUNTING TO SUIT CEILING TYPE, POWDER COAT FINISH COLOR: WHITE

## VAV TERMINAL UNIT SCHEDULE

VAV #	AHU #	AREA SERVED	MANUFACTURER	MODEL	INLET SIZE	TOTAL AIR FLOW		REMARKS
						MIN. (L/S)	MAX. (L/S)	
101	1	COOK/CHILL PRODUCTION	EH PRICE	SDV-516	400	270	1200	C/W REHEAT COIL AND STANDARD LENGTH ATTENUATOR, CONTROLS SUPPLIED BY CONTROLS CONTRACTOR
102	1	COOK/CHILL PRODUCTION	EH PRICE	SDV-514	350	210	900	C/W REHEAT COIL AND STANDARD LENGTH ATTENUATOR, CONTROLS SUPPLIED BY CONTROLS CONTRACTOR
103	1	FOOD PREP	EH PRICE	SDV-512	300	145	520	C/W REHEAT COIL AND STANDARD LENGTH ATTENUATOR, CONTROLS SUPPLIED BY CONTROLS CONTRACTOR
104	1	WARE WASH	EH PRICE	SDV-514	350	210	795	C/W REHEAT COIL AND STANDARD LENGTH ATTENUATOR, CONTROLS SUPPLIED BY CONTROLS CONTRACTOR
105	1	COOK/CHILL PRODUCTION	EH PRICE	SDV-514	350	210	900	C/W REHEAT COIL AND STANDARD LENGTH ATTENUATOR, CONTROLS SUPPLIED BY CONTROLS CONTRACTOR

## DOOR AIR CURTAIN SCHEDULE

TAG	MFGR/MODEL	AIRFLOW (L/s)	FAN POWER (QTY. @ W)	ELECTRICAL SERVICE	REMARKS
DAC-1	BERNER / KSA2072A	2,413	2 @ 373	120/60/1	TO INTEGRATE WITH OVERHEAD DOOR LOCATION. REFER TO ARCHITECTURAL DRAWINGS FOR DETAILS
DAC-2	BERNER / KSA2072A	2,413	2 @ 373	120/60/1	TO INTEGRATE WITH OVERHEAD DOOR LOCATION. REFER TO ARCHITECTURAL DRAWINGS FOR DETAILS

## PUMPS

SYMBOL	MFGR/ MODEL	SERVING	TYPE	FLOW (L/S)	HEAD (kPa)	FLUID	RPM	ELECTRICAL		REMARKS
								KW	V/Ø	
P-1	B&G/SSV	BUILDING HEAT	VERTICAL MULTI-STAGE	1.13	96	WATER	1750	0.37	575/3	-
P-2	B&G/SSV	BUILDING HEAT	VERTICAL MULTI-STAGE	1.13	96	WATER	1750	0.37	575/3	-
P-3	B&G/SERIES 80	AHU HEAT	IN-LINE CENTRIFUGAL	6.89	131	50% PROP GLYCOL	1800	2.23	575/3	VFD OPERATION
P-4	B&G/SERIES 80	AHU HEAT	IN-LINE CENTRIFUGAL	6.89	131	50% PROP GLYCOL	1800	2.23	575/3	VFD OPERATION
P-5	B&G/8" 6VBTXNC	DHWR	IN-LINE CENTRIFUGAL	0.28	17.3	WATER	-	0.03	120/1	VARIABLE SPEED ECM OPERATION

## RADIANT HEATING SCHEDULE

TYPE	MFGR/MODEL	OUTPUT (W/m)	AWT (°C)	ΔT (°C)	REMARKS
A	ENGINEERED AIR / HEF-2	350	74	22	600 WIDE RADIANT PANEL MOUNTED AT CEILING HEIGHT
B	ENGINEERED AIR	955	74	22	BARE FIN RADIANT HEATING IN CEILING SPACE. 19mm X 102mm X 102mm
C	ENGINEERED AIR / PROFILE SERIES	610	74	22	FINNED TUBE BASEBOARD RADIATOR

## HOT WATER REHEAT COIL SCHEDULE

RHC #	AHU #	AREA SERVED	CAPACITY (W)	AWT (°C)	ΔT (°C)	AIRFLOW (L/S)	REMARKS
101	2	OFFICE/SGMP	700	74	22	80	SIZED TO FIT DUCTWORK
102	2	BREAKDOWN #1	1850	74	22	210	SIZED TO FIT DUCTWORK
103	2	STAFF OFFICE	1100	74	22	125	SIZED TO FIT DUCTWORK
104	2	INGREDIENTS ROOM	650	74	22	70	SIZED TO FIT DUCTWORK
105	2	DRY GOODS	900	74	22	105	SIZED TO FIT DUCTWORK
106	2	LUNCH ROOM	3700	74	22	420	SIZED TO FIT DUCTWORK
107	2	BREAKDOWN #2	825	74	22	95	SIZED TO FIT DUCTWORK
108	1	FOOD PREP	2100	74	22	525	INTEGRAL W/ VAV BOX 103
109	1	WARE WASH	2750	74	22	665	INTEGRAL W/ VAV BOX 104
110	1	COOK/CHILL PRODUCTION	4900	74	22	1200	INTEGRAL W/ VAV BOX 101
111	1	COOK/CHILL PRODUCTION	3650	74	22	900	INTEGRAL W/ VAV BOX 102
112	1	COOK/CHILL PRODUCTION	3650	74	22	900	INTEGRAL W/ VAV BOX 105

## EXPANSION TANK SCHEDULE

TAG	SYSTEM	MFGR.	MODEL	SYSTEM VOLUME (L)	SYSTEM EXPANSION VOLUME (L)	TANK VOLUME (L)	MIN. OR INTIAL FILL PRESSURE (kPa)	MAX DESIGN PRESSURE (kPa)	REMARKS
ET-1	HOT WATER HEATING	B&G	PTA-30V	405	24	53	69	207	
ET-2	GLYCOL HEATING	B&G	PTA-12	273	7.4	24	69	207	
ET-3	DHW	B&G	PTA-80V	946	66	200	414	552	
ET-4	SOFTENED DHW	B&G	PTA-30V	390	27	53	414	552	

