GRILLE AND REGISTER SCHEDULE

SYM.	SIZE	THROW	CFM	CONSTR.	FINISH	BRANCH DUCT	F.D.	O.B.	REMARKS
CD-1	12 x 12	4	100-400	STEEL	WHITE	10" Dia.	NO	NO	PRICE SMD IN 24x24 LAY-IN MODULE
CD-2	12 x 12	4	100-200	STEEL	WHITE	8" Dia.	NO	NO	PRICE SMD WITH BEVELED FRAME
CD-3	9 x 9	4	50-150	STEEL	WHITE	8" Dia.	NO	NO	PRICE SMD WITH BEVELED FRAME
SR-1	12 x 10	---	200-400	STEEL	WHITE	12 x 10	NO	NO	PRICE SERIES 520
SR-2	12 x 10	---	200-400	STEEL	WHITE	IN DUCT	NO	YES	PRICE SERIES SDGE WITH EXTRACTION DAMPER
RG-1	12 x 12	---	50-400	STEEL	WHITE	12 x 10	NO	NO	PRICE SERIES 535FF IN 24x24 LAY-IN MODULE
RG-2	18 x 18	---	400-900	STEEL	WHITE	18 x 18	NO	NO	PRICE SERIES 535FF IN 24x24 LAY-IN MODULE
RG-3	12 x 12	---	50-400	STEEL	WHITE	12 x 10	NO	NO	PRICE SERIES 535FF
RG-4	18 x 18	---	400-900	STEEL	WHITE	18 x 18	NO	NO	PRICE SERIES 535FF
TG-1	12 x 8	---	200-450	STEEL	WHITE	14 x 8	NO	NO	PRICE SERIES 535
TG-2	18 x 10	---	----	STEEL	WHITE	18 x 10	NO	NO	PRICE SERIES 535
ER-1	18 x 18	---	300-800	STEEL	WHITE	18 x 18	NO	YES	PRICE SERIES 535 IN 24x24 LAY-IN MODULE
OL-1	72 x 18	---	100-2400	ALUM	ANODIZED	72 x 18	NO	NO	AMERICAN WARMING LE-31 WITH DRAINABLE BLADES AND BIRD SCREEN.
OL-2	36 x 18	---	100-2400	ALUM	ANODIZED	36 x 18	NO	NO	AMERICAN WARMING LE-31 WITH DRAINABLE BLADES AND BIRD SCREEN.
OL-3	24 x 16	---	---	ALUM	ANODIZED	12" Dia.	NO	NO	AMERICAN WARMING LE-31 WITH DRAINABLE BLADES AND BIRD SCREEN.
OL-4	32 x 48	---	---	ALUM	ANODIZED	32 x 16	NO	NO	AMERICAN WARMING LE-31 WITH DRAINABLE BLADES AND BIRD SCREEN.
OL-5	CUSTOM BUILT	---	---	ALUM	COLOR TO MATCH EXIST.	---	NO	NO	NEW LOUVER TO MATCH EXISTING STYLE AND COLOR. CONTRACTOR TO FIELD VERIFY EXISTING CONDITIONS AND PROVIDE NEW LOUVER TO FIT IN EXISTING WINDOW FRAMES. (TYPICAL OF 8 LOUVERS. REFER TO PHOTOGRAPH ON SHEET M1.2)

WATER SOURCE HEAT PUMP SCHEDULE

SYM.	TYPE	C.F.M.	OA	S.P.E.	CHAR.	MCA	HEATING BTU	HEATING EAT	HEATING LAT	HEATING MIN. COP	COOLING EWT	COOLING LWT	COOLING BTU	COOLING EAT	COOLING LAT	COOLING MIN. EER	COOLING EWT	COOLING LWT	GPM	PD	PIPE SIZE	WEIGHT	REMARKS
HP 1	HIGH STATIC UNIT HORIZONTAL	1800	350	0.5"	208/60/3	25.3	72,100	65°F	95°F	4.3	60°F	50°F	60,400	75°F	55°F	13.0	80°F	90°F	11.3	13.0'	1-1/4"	300#	CLIMATE MASTER MODEL TK060AH WITH BACK DISCHARGE AND RIGHT RETURN
HP 2	HIGH STATIC UNIT HORIZONTAL	1800	200	0.5"	208/60/3	25.3	72,100	65°F	95°F	4.3	60°F	50°F	60,400	75°F	55°F	13.0	80°F	90°F	11.3	13.0'	1-1/4"	300#	CLIMATE MASTER MODEL TK060AH WITH BACK DISCHARGE AND LEFT RETURN
HP 3	HIGH STATIC UNIT HORIZONTAL	1800	200	0.5"	208/60/3	25.3	72,100	65°F	95°F	4.3	60°F	50°F	60,400	75°F	55°F	13.0	80°F	90°F	11.3	13.0'	1-1/4"	300#	CLIMATE MASTER MODEL TK060AH WITH BACK DISCHARGE AND LEFT RETURN
HP 4	HIGH STATIC UNIT HORIZONTAL	1200	150	0.5"	208/60/3	16.0	41,900	65°F	95°F	4.3	60°F	50°F	35,300	75°F	55°F	13.0	80°F	90°F	6.8	2.3'	1"	225#	CLIMATE MASTER MODEL TK036AH WITH BACK DISCHARGE AND RIGHT RETURN
HP 5	HIGH STATIC UNIT HORIZONTAL	1800	200	0.5"	208/60/3	25.3	72,100	65°F	95°F	4.3	60°F	50°F	60,400	75°F	55°F	13.0	80°F	90°F	11.3	13.0'	1-1/4"	300#	CLIMATE MASTER MODEL TK060AH WITH BACK DISCHARGE AND LEFT RETURN
HP 6	HIGH STATIC UNIT HORIZONTAL	1800	200	0.5"	208/60/3	25.3	72,100	65°F	95°F	4.3	60°F	50°F	60,400	75°F	55°F	13.0	80°F	90°F	11.3	13.0'	1-1/4"	300#	CLIMATE MASTER MODEL TK060AH WITH BACK DISCHARGE AND RIGHT RETURN
HP 7	HIGH STATIC UNIT HORIZONTAL	1000	500	0.5"	208/60/3	14.1	33,300	65°F	95°F	4.3	60°F	50°F	21,000	75°F	55°F	13.0	80°F	90°F	5.6	3.8'	1"	185#	CLIMATE MASTER MODEL TK024AH WITH BACK DISCHARGE AND RIGHT RETURN
HP 8	HIGH STATIC UNIT HORIZONTAL	1800	350	0.5"	208/60/3	25.3	72,100	65°F	95°F	4.3	60°F	50°F	60,400	75°F	55°F	13.0	80°F	90°F	11.3	13.0'	1-1/4"	300#	CLIMATE MASTER MODEL TK060AH WITH STRAIGHT DISCHARGE AND LEFT RETURN
HP 9	HIGH STATIC UNIT HORIZONTAL	1800	0	0.5"	208/60/3	25.3	72,100	65°F	95°F	4.3	60°F	50°F	60,400	75°F	55°F	13.0	80°F	90°F	11.3	13.0'	1-1/4"	300#	CLIMATE MASTER MODEL TK060AH WITH STRAIGHT DISCHARGE AND RIGHT RETURN
HP 10	HIGH STATIC UNIT HORIZONTAL	1800	300	0.5"	208/60/3	25.3	72,100	65°F	95°F	4.3	60°F	50°F	60,400	75°F	55°F	13.0	80°F	90°F	11.3	13.0'	1-1/4"	300#	CLIMATE MASTER MODEL TK060AH WITH BACK DISCHARGE AND RIGHT RETURN
HP 11	HIGH STATIC UNIT HORIZONTAL	1800	300	0.5"	208/60/3	25.3	72,100	65°F	95°F	4.3	60°F	50°F	60,400	75°F	55°F	13.0	80°F	90°F	11.3	13.0'	1-1/4"	300#	CLIMATE MASTER MODEL TK060AH WITH BACK DISCHARGE AND LEFT RETURN
HP 12	HIGH STATIC UNIT HORIZONTAL	1800	300	0.5"	208/60/3	25.3	72,100	65°F	95°F	4.3	60°F	50°F	60,400	75°F	55°F	13.0	80°F	90°F	11.3	13.0'	1-1/4"	300#	CLIMATE MASTER MODEL TK060AH WITH BACK DISCHARGE AND LEFT RETURN
HP 13	HIGH STATIC UNIT HORIZONTAL	1600	150	0.5"	208/60/3	37.8	53,600	65°F	95°F	4.3	60°F	50°F	48,000	75°F	55°F	13.0	80°F	90°F	6.0	3.0'	1"	275#	CLIMATE MASTER MODEL TK048AH WITH BACK DISCHARGE AND RIGHT RETURN
HP 14	HIGH STATIC UNIT HORIZONTAL	1200	150	0.5"	208/60/3	16.0	41,900	65°F	95°F	4.3	60°F	50°F	35,300	75°F	55°F	13.0	80°F	90°F	6.8	2.3'	1"	225#	CLIMATE MASTER MODEL TK036AH WITH BACK DISCHARGE AND LEFT RETURN
HP 15	HIGH STATIC UNIT HORIZONTAL	1200	150	0.5"	208/60/3	16.0	41,900	65°F	95°F	4.3	60°F	50°F	35,300	75°F	55°F	13.0	80°F	90°F	6.8	2.3'	1"	225#	CLIMATE MASTER MODEL TK036AH WITH BACK DISCHARGE AND LEFT RETURN
HP 16	HIGH STATIC UNIT HORIZONTAL	700	100	0.5"	208/60/3	14.1	33,300	65°F	95°F	4.3	60°F	50°F	21,000	75°F	55°F	13.0	80°F	90°F	5.6	3.8'	1"	185#	CLIMATE MASTER MODEL TK024AH WITH STRAIGHT DISCHARGE AND RIGHT RETURN
HP 17	HIGH STATIC UNIT HORIZONTAL	1000	500	0.5"	208/60/3	14.1	33,300	65°F	95°F	4.3	60°F	50°F	21,000	75°F	55°F	13.0	80°F	90°F	5.6	3.8'	1"	185#	CLIMATE MASTER MODEL TK024AH WITH BACK DISCHARGE AND RIGHT RETURN
HP 18	HIGH STATIC UNIT HORIZONTAL	1800	350	0.5"	208/60/3	25.3	72,100	65°F	95°F	4.3	60°F	50°F	60,400	75°F	55°F	13.0	80°F	90°F	11.3	13.0'	1-1/4"	300#	CLIMATE MASTER MODEL TK060AH WITH STRAIGHT DISCHARGE AND LEFT RETURN
HP 19	HIGH STATIC UNIT HORIZONTAL	1800	0	0.5"	208/60/3	25.3	72,100	65°F	95°F	4.3	60°F	50°F	60,400	75°F	55°F	13.0	80°F	90°F	11.3	13.0'	1-1/4"	300#	CLIMATE MASTER MODEL TK060AH WITH STRAIGHT DISCHARGE AND RIGHT RETURN

CIRCULATING PUMP SCHEDULE

SYM.	TYPE	G.P.M.	HEAD	H.P.	CHAR	RPM	REMARKS	MANUFACTURER & MODEL NO.
CP 1	TURBINE PUMP	175	40'	5	480/60/3	1750	COOLING TOWER CIRCULATING	B&G TYPE 'F' VERTICAL TURBINE PUMP WITH NON OVERLOADING MOTOR
CP 2	TURBINE PUMP	175	40'	5	480/60/3	1750	COOLING TOWER CIRCULATING	B&G TYPE 'F' VERTICAL TURBINE PUMP WITH NON OVERLOADING MOTOR
CP 3	IN-LINE	175	70'	5	480/60/3	1750	HEAT PUMP LOOP CIRCULATING WITH VFD	B&G SERIES 80, MODEL 2-1/2 x 2-1/2 x 9-1/2B WITH ALL BRONZE CONSTRUCTION
CP 4	IN-LINE	175	70'	5	480/60/3	1750	HEAT PUMP LOOP CIRCULATING WITH VFD	B&G SERIES 80, MODEL 2-1/2 x 2-1/2 x 9-1/2B WITH ALL BRONZE CONSTRUCTION
CP 5	IN-LINE	240	70'	5	480/60/3	1750	CHILLER LOOP CIRCULATING	B&G SERIES 80, MODEL 2-1/2 x 2-1/2 x 9-1/2B WITH ALL BRONZE CONSTRUCTION, WEATHER-PROOF CONSTRUCTION FOR EXTERIOR INSTALLATION.

CHILLER SCHEDULE

SYM.	TYPE	NOMINAL TONS	CHILLER EWT	CHILLER LWT	CHILLER CHAR	CHILLER MCA	CHILLER IPLV	CHILLER MIN. GPM	CHILLER DES. GPM	CHILLER MAX. GPM	CHILLER PSI	CHILLER MOC	LBS	REMARKS
CH 1	PACKAGED AIR COOLED	150	55°F	45°F	480/60/3	350	14.0	120	240	400	15'	450	11,500#	TRANE MODEL RTAE150 WITH ROTARY COMPRESSORS. UNIT TO BE COMPLETE WITH FACTORY MOUNTED CIRCULATING PUMPS, EXPANSION TANK AND GLYCOL FILL STATION.

BOILER SCHEDULE

SYM.	TYPE	GROSS BTU INPUT	GROSS BTU OUTPUT	CHAR	AMPS	WORKING PRESSURE	FUEL TYPE	FLUE (PVC)	GAS SIZE	PIPE SIZE	WEIGHT	REMARKS
B 1	SEP. COMB. CONDENSING	850,000	816,000	120/60/1	16	30 psi	NAT.	4" Dia. IN 6" Dia. OUT	1-1/2"	2"	1000#	LAARS NTV- 850 COMPLETE WITH CONDENSATE TRAP AND FACTORY FURNISHED CIRCULATING PUMP
B 2	SEP. COMB. CONDENSING	850,000	816,000	120/60/1	16	30 psi	NAT.	4" Dia. IN 6" Dia. OUT	1-1/2"	2"	1000#	LAARS NTV- 850 COMPLETE WITH CONDENSATE TRAP AND FACTORY FURNISHED CIRCULATING PUMP

EXHAUST FAN SCHEDULE

SYM.	TYPE	C.F.M.	S.P.E.	WATTS	CHAR.	R.P.M.	CONTROL	REMARKS
EF 1	CEILING MOUNTED	100	.25"	87	120/60/1	640	WITH LIGHTS	TWIN CITY MODEL T100 WITH CEILING GRILLE, BACK-DRAFT DAMPER AND 6" Dia. DUCT TO ROOF CAP.
EF 2	CEILING MOUNTED	100	.25"	87	120/60/1	640	WITH LIGHTS	TWIN CITY MODEL T100 WITH CEILING GRILLE, BACK-DRAFT DAMPER AND 6" Dia. DUCT TO ROOF CAP.
EF 3	CEILING MOUNTED	300	.25"	212	120/60/1	905	DDC SYSTEM	TWIN CITY MODEL T300 WITH CEILING GRILLE, BACK-DRAFT DAMPER AND 8" Dia. DUCT TO ROOF CAP.
EF 4	CEILING MOUNTED	300	.25"	212	120/60/1	905	DDC SYSTEM	TWIN CITY MODEL T300 WITH CEILING GRILLE, BACK-DRAFT DAMPER AND 8" Dia. DUCT TO ROOF CAP.
EF 5	CEILING MOUNTED	300	.25"	212	120/60/1	905	DDC SYSTEM	TWIN CITY MODEL T300 WITH CEILING GRILLE, BACK-DRAFT DAMPER AND 8" Dia. DUCT TO ROOF CAP.
EF 6	CEILING MOUNTED	300	.25"	212	120/60/1	905	DDC SYSTEM	TWIN CITY MODEL T300 WITH CEILING GRILLE, BACK-DRAFT DAMPER AND 8" Dia. DUCT TO ROOF CAP.
EF 7	CEILING MOUNTED	100	.25"	87	120/60/1	640	WITH LIGHTS	TWIN CITY MODEL T100 WITH CEILING GRILLE, BACK-DRAFT DAMPER AND 6" Dia. DUCT TO ROOF CAP.
EF 8	CEILING MOUNTED	100	.25"	87	120/60/1	640	WITH LIGHTS	TWIN CITY MODEL T100 WITH CEILING GRILLE, BACK-DRAFT DAMPER AND 6" Dia. DUCT TO ROOF CAP.
EF 9	ROOF MOUNTED UP-BLAST	600	.25"	1/4 HP	120/60/1	925	WALL SWITCH	TWIN CITY MODEL 110-BCRU WITH BACK-DRAFT DAMPER. MOUNT ON ROOF CURB. SEE DETAIL E/M3.1 FOR TYPICAL INSTALLATION.
EF 10	ROOF MOUNTED UP-BLAST	1000	.50"	1/4 HP	120/60/1	1375	SWITCH ON HOOD	TWIN CITY MODEL 110-BCRU WITH BACK-DRAFT DAMPER. MOUNT ON ROOF CURB. SEE DETAIL E/M3.1 FOR TYPICAL INSTALLATION.
EF 11	ROOF MOUNTED UP-BLAST	400	.25"	1/4 HP	120/60/1	1200	WALL SWITCH	TWIN CITY MODEL 095C-BCRD WITH BACK-DRAFT DAMPER. MOUNT ON ROOF CURB. SEE DETAIL E/M3.1 FOR TYPICAL INSTALLATION.
EF 12	ROOF MOUNTED UP-BLAST	400	.25"	1/4 HP	120/60/1	1200	WALL SWITCH	TWIN CITY MODEL 095C-BCRD WITH BACK-DRAFT DAMPER. MOUNT ON ROOF CURB. SEE DETAIL E/M3.1 FOR TYPICAL INSTALLATION.
EF 13	IN-LINE	1100	.50"	1/4 HP	120/60/1	1560	INTERLOCK WITH BOILER	TWIN CITY MODEL BSI-100. MOUNT ON END OF 16" ROUND DUCT AND PROVIDE BAROMETRIC DAMPER INSIDE BOILER ROOM.
EF 14	IN-LINE	1450	.50"	1/3 HP	120/60/1	1420	INTERLOCK WITH BOILER	TWIN CITY MODEL BSI-120. MOUNT ON END OF 18" ROUND DUCT AND PROVIDE BAROMETRIC DAMPER INSIDE BOILER ROOM.
EF 15	CEILING MOUNTED	450	.38"	232	120/60/1	810	WITH LIGHTS	TWIN CITY MODEL T500 WITH CEILING GRILLE, BACK-DRAFT DAMPER AND 8" Dia. DUCT TO ROOF CAP.
EF 16	RANGE HOOD	160-300	.25"	80	120/60/1	---	ON HOOD	BROAN MODEL BCDF130SS STAINLESS STEEL RANGE HOOD WITH HPFAM030 GREASE FILTER, MOUNTING BRACKETS AND 7" Dia. DUCT TO ROOF CAP.

HEAT EXCHANGER SCHEDULE

SYM.	TYPE	SIDE "A" EWT	SIDE "A" LWT	SIDE "A" GPM	SIDE "A" PD	SIDE "B" EWT	SIDE "B" LWT	SIDE "B" GPM	SIDE "B" PD	CONNECTION SIZE	WEIGHT	REMARKS
HX 1	PLATE (COOLING)	90°F	80°F	175	10'	75°F	85°F	175	10'	(4) 4"	1200#	B&G PLATE TYPE GPX

COOLING TOWER SCHEDULE

SYM.	CFM	HP	CHAR.	PD	EAT	WB	EWT	LWT	GPM	WEIGHT	REMARKS
CT 1	14,830	1-1/2	208/60/3	6.2'	95°F	67°F	85°F	75°F	175	1700#	RSD SIZE 060 FIBERGLASS COOLING TOWER

OUTSIDE AIR UNIT SCHEDULE

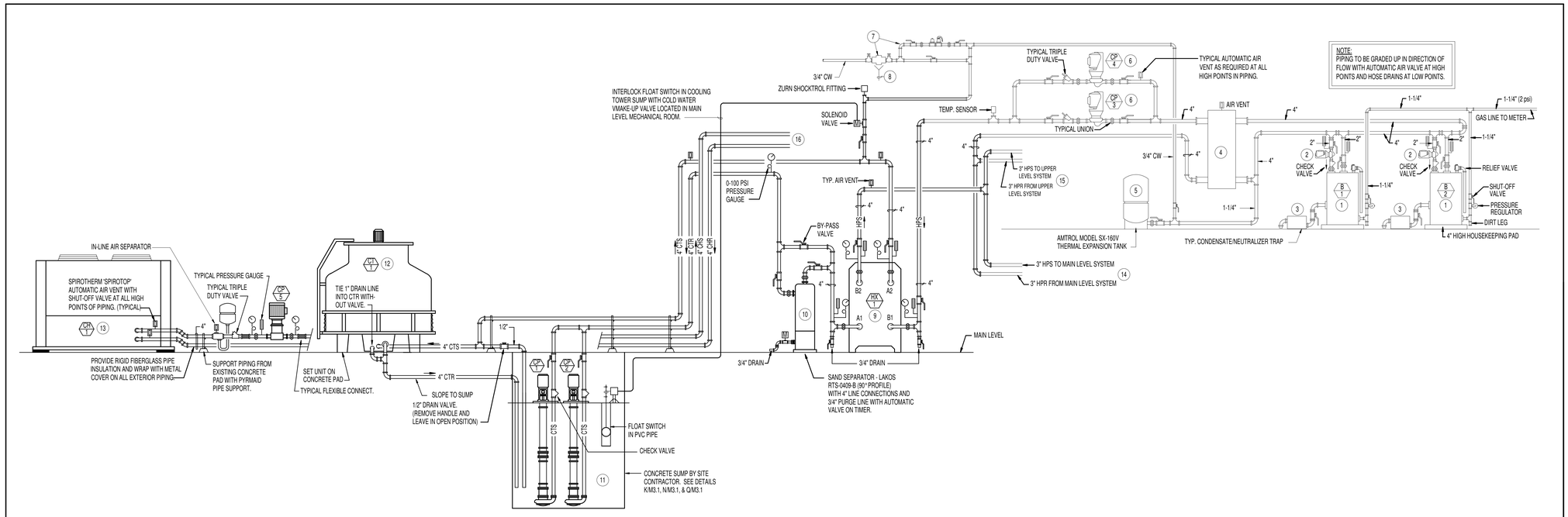
SYM.	TYPE	C.F.M.	S.P.E.	HP	CHAR.	BTU INPUT	BTU OUTPUT	CONTROL	REMARKS
OA 1	HORIZONTAL	2100	.50"	3/4	120/60/1	200,000	160,000	DDC SYSTEM	TRANE MODEL GXAA, SIZE 20 INDOOR UNIT (GAS FIRED)
OA 2	HORIZONTAL	2400	.50"	3/4	120/60/1	200,000	160,000	DDC SYSTEM	TRANE MODEL GXAA, SIZE 20 INDOOR UNIT (GAS FIRED)

SPLIT SYSTEM A/C UNIT SCHEDULE

INDOOR UNIT SYM.	CFM	BTU	CHAR	MCA		OUTDOOR UNIT SYM.	BTU	MCA	SEER	CHAR	MANUFACTURER	REFRIG. LINES LIQUID	REFRIG. LINES SUCTION
FC 1A	600-700	30,000	208/60/1	1	MITSUBISHI MODEL PKA-A30KA7 WITH WALL MOUNTED CONTROLLER AND COND. PUMP	FC 1B	30,000	25	19.6	208/60/1	MITSUBISHI MODEL PUY-A30NHA7 WITH LOW AMBIENT 'HARD-START' KIT	3/8"	5/8"

PLAN NOTES:

1. PROVIDE AND INSTALL SEPARATED COMBUSTION CONDENSING BOILERS AS SPECIFIED. MOUNT BOILERS IN UPPER MECHANICAL ROOM ON 4" HIGH CONCRETE HOUSEKEEPING PAD. BOILERS TO COME COMPLETE WITH FACTORY SUPPLIED CIRCULATING PUMP. PROVIDE AND INSTALL ALL FITTINGS, CONTROLS, AND VALVES REQUIRED TO CONNECT TO HEAT PUMP HEATING SYSTEM. REFER TO SPECIFICATIONS. RISE 4' INTAKE VENT AND 6' EXHAUST VENT FROM EACH BOILER UP THRU ROOF WITH WEATHER CAP.
2. BOILER CIRCULATING PUMP TO BE FURNISHED BY FACTORY AND INSTALLED BY CONTRACTOR. CONTRACTOR TO ROUGH-IN AND CONNECT 2" HEAT PUMP SYSTEM PIPING AS SHOWN. INTERLOCK PUMP WITH BOILER OPERATION.
3. CONDENSATE TRAP TO BE FURNISHED AS PART OF BOILER SYSTEM. CONNECT TRAP TO BOILER AND RUN DRAIN LINE TO NEAREST FLOOR SINK.
4. PROVIDE AND INSTALL 4" SARCO LOW LOSS HEADER AS SPECIFIED. CONNECT TO HEAT PUMP LOOP AND TO BOILER LOOP PIPING AS RECOMMENDED BY MANUFACTURER OF EQUIPMENT SUPPLIED. MOUNT HEADER ABOVE BOILERS AND SUPPORT FROM ROOF STRUCTURE.
5. PROVIDE AND INSTALL AMTROL MODEL SX-160V EXPANSION TANK AS SPECIFIED. MOUNT TANK AT FLOOR. RUN DRAIN LINE TO NEAREST FLOOR SINK.
6. PROVIDE AND INSTALL HEAT PUMP LOOP CIRCULATING PUMPS AS SPECIFIED. MOUNT PUMPS ABOVE BOILERS AND SUPPORT FROM ROOF STRUCTURE. PROVIDE SHEET METAL DRAIN PAN BELOW PUMPS AND RUN DRAIN LINE TO FLOOR SINK.
7. PROVIDE AND INSTALL BACK-FLOW PREVENTION DEVICE ON COLD WATER FEED LINE. REFER TO DETAIL G/P3.1 FOR TYPICAL INSTALLATION AND TO LARGE SCALE PLAN A/M2.1 FOR LOCATION IN MAIN LEVEL MECHANICAL ROOM.
8. RUN DRAIN LINE TO NEAREST FLOOR SINK OR FLOOR DRAIN.
9. PROVIDE AND INSTALL PLATE TYPE HEAT EXCHANGER IN MAIN LEVEL MECHANICAL ROOM AS SPECIFIED. CONNECT TO 4" COOLING TOWER SUPPLY AND RETURN LINES AND TO 4" HEAT PUMP SYSTEM SUPPLY AND RETURN LINES AS RECOMMENDED BY MANUFACTURER. ALL PIPE CONNECTIONS TO HAVE SHUT-OFF VALVES. RUN DRAIN LINES TO NEAREST FLOOR SINK.
10. PROVIDE AND INSTALL LAKOS MODEL RTS-0409-B VERTICAL SAND SEPARATOR AS SPECIFIED. CONNECT TO 4" COOLING TOWER PIPING WITH BY-PASS VALVE AS SHOWN. RUN PURGE LINE TO NEAREST FLOOR SINK.
11. 8'-0" SQUARE BY 9'-0" DEEP CONCRETE COOLING TOWER SUMP INSTALLED BY SITE CONTRACTOR. REFER TO DETAIL N/M3.12 AND Q/M3.1 FOR TYPICAL EQUIPMENT INSTALLATION AND SUPPORT PLATFORM FURNISHED AND INSTALLED BY MECHANICAL CONTRACTOR. ENTIRE CONCRETE SUMP TO BE WATER-PROOFED WITH EPOXY PAINT.
12. COOLING TOWER TO BE LOCATED IN MECHANICAL EQUIPMENT YARD. REFER TO SHEET M1.1 FOR LOCATION. MAINTAIN 3'-0" MINIMUM CLEARANCE ALL AROUND TOWER. RUN PIPING TO UNDERGROUND SUMP PIT AS SHOWN.
13. PACKAGED AIR COOLED CHILLER TO BE LOCATED IN MECHANICAL EQUIPMENT YARD. REFER TO SHEET M1.1 FOR LOCATION. MAINTAIN MANUFACTURER'S RECOMMENDED CLEARANCES ALL AROUND CHILLER. PROVIDE RIGID FIBERGLASS PIPE INSULATION ON ALL EXPOSED PIPING AND COVER WITH METAL COVER.
14. 3" HEAT PUMP SUPPLY AND RETURN PIPING TO MAIN LEVEL UNITS. REFER TO MAIN LEVEL HYDRONIC PIPING PLAN ON SHEET M1.3 FOR CONTINUATION OF PIPING ON MAIN LEVEL.
15. 3" HEAT PUMP SUPPLY AND RETURN PIPING TO UPPER LEVEL UNITS. REFER TO UPPER LEVEL HYDRONIC PIPING PLAN ON SHEET M1.3 FOR CONTINUATION OF PIPING ON UPPER LEVEL.
16. 4" CHILLED WATER SUPPLY AND RETURN PIPING TO EXISTING AIR HANDLERS LOCATED IN EXISTING UNIT #3 (GYMNASIUM) BUILDING. REFER TO MAIN LEVEL HYDRONIC PLAN ON SHEET M1.3 FOR CONTINUATION OF PIPING.



A | BOILER / COOLING TOWER / CHILLER PIPING DIAGRAM | NO SCALE

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Sheet:
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