

AIR HANDLING UNIT SCHEDULE

AHU NO	1209-1	1209-2	1209-3	1209-4	M424-1	M424-2	M424-3	508-1	508-2	RR-3-1	RR-3-2	BA103-1	BA103-2	M424-4
CFM	5870	3270	5120	5120	4240	4480	6050	7800	7600	6000	9200	2900	6250	4500
EXTERNAL S.P./IN.W.C.	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
TOTAL S.P./IN.W.C.	2.75	2.3	2.9	2.9	3.08	2.5	2.9	2.7	2.64	3.1	2.5	2.45	2.5	2.1
FAN WHEEL DIA./IN.	18	15	18	18	18	18	18	20	20	18	22	15	18	18
WHEEL TYPE	FC	FC	FC	FC	FC	FC	FC	FC	FC	FC	FC	FC	FC	FC
H.P. - MAX.	5	5	5	5	5	5	5	7 1/2	7 1/2	5	7 1/2	5	5	5
RPM - (APPROX.)	870	1000	930	930	1120	1000	925	747	744	1040	700	884	1025	1010
STARTER/ELECT STARTER SIZE	0	0	0	0	0	0	0	1	1	0	1	0	0	0
COOLING COIL DATA														
TOTAL COOLING BTU/HR	165,500	76,600	143,800	143,800	127,300	133,100	168,600	206,400	202,800	167,200	240,500	69,500	174,150	
ENTERING AIR DRY BULB °F	83.0	79.2	83.7	83.7	84.8	81.5	82.8	82	82.2	82.2	81.2	79.2	82.8	
ENTERING AIR WET BULB °F	71.3	66.5	72.1	72.1	73.4	73.0	71.2	70.2	71.2	69.4	66.7	71.2		
LEAVING AIR DRY BULB °F	60	57.5	57.7	57.7	57.0	57.0	57.0	57.5	57.5	57.0	57.0	57.0		
LEAVING AIR WET BULB °F	55.5	56.8	55.5	55.5	54.5	55.0	54.5	55.2	55.2	54.3	53.8	55.4	55.0	
MAX. FACE VELOCITY - FPM	550	550	550	550	550	550	550	550	550	550	550	550	550	
HEATING COIL DATA														
TOTAL HEATING BTU/HR	205,800		234,000	234,000	219,900	219,900	226,100	237,200	244,300	242,000	269,900	70,890	222,800	112,432
ENTERING AIR °F	49.6		46.9	46.9	42.5	43.8	50.2	52	52.5	48.5	55.5	63.5	50.0	63.5
LEAVING AIR °F	82.1		89.2	89.2	90.5	89.4	84.8	80	82.5	86	83	86.5	83.0	87.0
GPM	21		23	23	22	19	23	15	15	24	33	15	20	11.5
FILTER														
AIR PRESS. DROP IN.W.C.	0.2		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
WATER PRESS. DROP FT.W.C.	2.0		10.0	10.0	10.0	2.0	10.0	2.0	2.0	3.0	4.0	2.0	2.5	2.0
MIN FILTER AREA SQ.FT.	16.8	9.4	15.5	15.5	12.2	12.8	17.3	22.3	21.7	17.2	26.3	8.3	17.8	12.9
INITIAL AIR PRESS. DROP IN.W.C.	.16	.125	.16	.12	.2	.1	.17	.18	.17	.17	.15	.11	.15	.15
FINAL AIR PRESS. DROP IN.W.C.	.40													

REMARKS: 1. ALL FAN MOTORS ARE 1750 RPM/460V/3PH.
2. AHU NO RR3-2 HAS DUAL COOLING COIL SPLIT EQUALLY ON FACE.
3. ALL AHU'S ARE HORIZONTAL DRAW THRU EXCEPT BA-103-1 & 2 WHICH ARE VERTICAL DRAW THRU.

PUMP SCHEDULE

PUMP NO	G.P.M.	TOT. HEAD	MAX. H.P.	VOLTS / PH	STARTER SIZE
1209-1	93	30'	1 1/2	480 / 3	0
1209-2	93	30'	1 1/2	480 / 3	0
1209-3	21	20'	1/3	120 / 1	---
1209-4	13	20'	1/4	120 / 1	---
1209-5	41	20'	1/2	480 / 3	0
1209-6	20	20'	1/3	120 / 1	---
M424-1	95	30'	2	480 / 3	0
M424-2	95	30'	2	480 / 3	0
M424-3	21	20'	1/3	120 / 1	---
M424-4	39	20'	1/2	480 / 3	0
M424-5	13	20'	1/4	120 / 1	---
M424-6	21	20'	1/3	120 / 1	---
508-1	60	30'	1 1/2	208 / 3	0
508-2	60	30'	1 1/2	208 / 3	0
508-3	27	20'	1/3	120 / 1	---
508-4	11	20'	1/4	120 / 1	---
508-5	34	20'	1/2	480 / 3	0
RR-3-1	75	30'	1 1/2	208 / 3	0
RR-3-2	75	30'	1 1/2	208 / 3	0
RR-3-3	17	20'	1/4	120 / 1	---
RR-3-4	50	20'	1/2	480 / 3	0
BA103-1	38	30'	1	208 / 3	0
BA103-2	38	30'	1	208 / 3	0
BA103-3	6	20'	1/4	120 / 1	---
BA103-4	21	20'	1/4	120 / 1	---

REMARKS: 1. PUMP MOTORS RPM - 1750

LOUVERED PENTHOUSE SCHEDULE

PENTHOUSE NO	TOTAL CFM	NECK SIZE	HEIGHT	FREE AREA
1209-1	3470	24 x 24	24	4.7
1209-2	2940	18 x 18	24	3.3
1209-3	2720	24 x 24	20	4.7
1209-4	2520	24 x 24	20	4.7
M424-1	1840	24 x 24	16	4.1
M424-2	2080	24 x 24	16	4.1
M424-3	3550	36 x 36	16	7.3
M424-4	4300	24 x 24	24	6.0
508-1	23,220	84 x 84	32	46.5
508-2	5200	36 x 36	20	6.9
508-3	5200	36 x 36	20	6.9
RR-3-1	3500	36 x 36	16	7.2
RR-3-2	6800	48 x 48	20	13.6

REMARKS: 1. PENTHOUSE SHALL BE ALL ALUM. MITERED CORNERTYPE. LOUVER SHALL BE 4" THICK W/4" BLADE SPACING AND W/BIRO SCREEN.
2. MAX. AIR PD SHALL BE 0.08" AT 700 FPM OVER FREE AREA.

MISC. FILTER SCHEDULE

FILTER NO.	CFM	M.X. FACE VEL.	CONFIGURATION
1209-1	3680	3.50	A
1209-2	7000	3.50	A
1209-3	7520	3.50	A
M424-1	3680	3.50	A
M424-2A	6700	3.50	A
M424-2B	6700	3.50	A
M424-3	3680	3.50	B
508-1	4320	3.50	B
508-2	3500	3.50	B
508-3	5800	3.50	A
RR-3-1	8600	3.50	A
RR-3-2	2860	3.50	A
BA103-1	1115	3.50	A
BA103-2	3600	3.50	B

REMARKS: 1. INITIAL AIR PD - 0.15"
2. FINAL AIR PD - 0.3"
3. FILTER SHALL BE 2" THICK, 30% EFFICIENT AS PER ASHRAE 52-76
4. CONFIGURATION: A - 2" THICK FIELD FABRICATED TRACK INSIDE DUCT. B - FACTORY FABRICATED V-BANK HOUSING.

PRESS. REDUCING VALVE SCHEDULE

VALVE NO.	1209-1	1209-2	1209-3	M424-1	M424-2	M424-3	508-1	508-2	508-3	RR-3-1	RR-3-2	RR-3-3	BA103-1	BA103-2	BA103-3
STEAM FLOW LBS./HR.	2000	3200	2000	1930	1980	1400	1420	2455	870	1410	2545	1475	800	2230	870
TINLET PRESSURE PSI	100	100	100	125	125	125	125	125	125	100	100	100	50	50	50
OUTLET PRESSURE PSI	10	30	10	10	30	10	10	30	10	10	30	10	10	30	10
BY PASS GLOBE VALVE SIZE	1	1 1/2	1	1	1	3/4	1	1 1/4	3/4	1	1 1/4	3/4	1	1 1/2	3/4

REMARKS:

CONDENSATE PUMP SCHEDULE

PUMP NO.	1209-1	M424-1	508-1	RR-3-1
G.P.M.	35	30	25	25
T.O.H.	100	75	75	75
H.P. (MAX.)	7 1/2	5	5	5
RECEIVER CAP. GAL. (MIN)	49	49	49	49
ELECTRICAL (VOLT/PH)	480 / 3	480 / 3	208 / 3	208 / 3

REMARKS: 1. ALL PUMP MOTORS ARE 1750 RPM
2. ELECTRICAL STARTERS - 1209 IS SIZE 1, ALL OTHERS ARE SIZE-0

LOUVER SCHEDULE

LOUVER NO.	TOTAL CFM	QUANTITY	LOUVER SIZE	FREE AREA
1209-1	3680	1	42 X 36	6.0
1209-2A,B,C	5870	3	36 X 24	1.75
1209-3A,B	3270	2	36 X 20	1.75
1209-4	7000	1	84 X 32	14.2
1209-5A,B,C	5120	3	36 X 24	1.75
1209-6A,B,C	5020	3	36 X 24	1.75
1209-7	3520	1	48 X 28	5.9
M424-1	3680	1	48 X 30	7.2
M424-2A,B,C	4240	3	36 X 18	1.75
M424-3A,B,C	4480	3	36 X 20	1.75
M424-4 A,B	6700	2	36 X 36	4.8
M424-5A,B,C	6050	3	36 X 24	1.75
M424-6	3680	1	48 X 30	7.2
M424-7A,B,C	4500	3	36 X 20	1.75
508-1	5800	1	42 X 48	5.3
RR-3-1	2860	1	48 X 24	5.9
BA-103-1	2900	1	24 X 48	3.8
BA-103-2	6250	1	42 X 52	8.3
BA-103-3	6400	1	48 X 48	8.5
BA-103-4	1115	1	36 X 18	2.3
BA-103-5	3600	1	60 X 24	4.8

REMARKS: 1. LOUVERS SHALL BE 4" THICK W/2" BLADE SPACING COMPLETE W/ BIRO SCREEN.
2. MAX. AIR PD 0.05" AT 700 FPM OVER FREE AREA.

CONDENSING UNIT SCHEDULE

UNIT NO.	1209-1	1209-2	1209-3	1209-4	M424-1	M424-2	M424-3	508-1	508-2	RR-3-1	RR-3-2	BA103-1	BA103-2
TOTAL COOLING BTU/HR													
SATURATED SUCTION TEMP	42	45	41	41	41	41	40	45	44	43	43	45	40
MAX. UNIT KW	399	9.5	28.7	28.7	28.7	28.7	28.5	39.4	38.9	40.9	52.4	9.5	28.5

REMARKS: 1. O.A. AMBIENT - 90°F db
2. ELECTRICAL POWER - 460 V / 3 PH
3. COMPRESSOR KW INCLUDES POWER DRAWN BY CONDENSER FAN
4. UNIT NO RR3-2 HAS TWO REFRIGERANT CIRCUITS

THRU WALL A.C. UNIT SCHEDULE

TYPE NO.	(1)	(2)
TOTAL COOLING - BTU/HR	10,500	13,100
TOTAL HEATING - BTU/HR	12,510	13,140
MIN. OUTSIDE AIR	60	70
ELECTRICAL (VOLT/PH)	277/1	277/1

REMARKS: 1. COOLING IS BASED ON 80°F db, 67°F wb RETURN AIR AND 95°F O.A.
2. HEATING IS BASED ON 180°F ENT. WATER AND 59°F ENT. AIR
3. WATER FLOW TO ALL UNITS - 1 GPM

HEATING COIL SCHEDULE

COIL NO.	1209-1	1209-2	1209-3	1209-4	1209-5	1209-6	1209-7	1209-8	M424-1	M424-2	M424-3	M424-4	508-1	508-2	508-3	RR-3-1	RR-3-2	BA-103-1	BA-103-2
SIZE WxH	45x45	24x30	12x30	15x6	15x6	18x6	30x54	36x36	27x27	27x27	27x27	27x27	30x30	24x24	36x48	27x27	35x54	21x39	28x28
TOTAL HEATING BTU/H	214,600	120,960	56,500	8,800	16,200	19,880	408,200	205,200	214,500	390,700	120,900	214,600	251,900	120,900	338,200	166,80			

Forward

AIR HANDLING UNIT SCHEDULE

AHU NO.	1209-1	1209-2	1209-3	1209-4	M424-1	M424-2	M424-3	508-1	508-2	RR3-1	RR3-2	BA103-1	BA103-2	M424-4
CFM	5870	3270	5120	5120	4240	4480	6050	7800	7800	6000	9200	2900	6250	4500
EXTERNAL S.P./IN.W.C.	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
TOTAL S.P./IN.W.C.	2.75	2.3	2.9	2.9	3.08	2.5	2.9	2.7	2.64	3.1	2.5	2.45	2.5	2.1
FAN WHEEL DIA./IN.	18	15	18	18	15	18	18	20	20	18	22	15	18	18
WHEEL TYPE	FC	FC	FC	FC	FC	FC	FC	FC	FC	FC	FC	FC	FC	FC
H.P. - MAX.	5	5	5	5	5	5	5	7 1/2	7 1/2	5	7 1/2	(2)	5	5
RPM - (APPROX.)	870	1000	930	930	1120	1000	925	747	744	1040	700	884	1025	1010
STARTER/ELECT STARTER SIZE	0	0	0	0	0	0	0	1	1	0	1	0	0	0
SENSIBLE COOLING BTU/HR.	165,500	76,600	143,800	143,800	127,300	133,100	168,600	205,400	202,800	167,200	240,500	69,500	174,150	
TOTAL COOLING BTU/HR.	324,900	101,500	283,400	283,400	286,200	270,200	329,400	382,600	372,800	318,600	459,600	101,800	334,700	
ENTERING AIR DRY BULB °F	83.0	79.2	83.7	83.7	84.8	84.5	82.8	82	82.2	82.2	81.2	79.2	82.8	
ENTERING AIR WET BULB °F	71.3	66.5	72.1	72.1	73.4	73.0	71.2	70.2	71.2	69.4	66.7	71.2		
LEAVING AIR DRY BULB °F	60	57.5	57.7	57.7	57.0	57.0	57.5	57.0	57.5	57.0	57.0	57.0	57.0	
LEAVING AIR WET BULB °F	55.5	56.8	55.5	55.5	54.5	55.0	54.5	55.2	55.2	54.3	53.8	55.4	55.0	
MAX. FACE VELOCITY - F.P.M.	550	550	550	550	550	550	550	550	550	550	550	550	550	
MAX AIR PRESS. DROP IN W.C.	0.63	0.4	0.8	0.8	0.98	0.4	0.8	0.6	0.54	1.0	0.4	0.35	0.4	
TOTAL HEATING BTU/HR.	205,800		234,000	234,000	219,900	219,900	226,100	237,200	244,300	242,000	269,900	70,890	222,800	112,432
ENTERING AIR °F	49.6		46.9	46.9	42.5	43.8	50.2	52	52.5	48.5	55.5	63.5	50.0	63.5
LEAVING AIR °F	82.1		89.2	89.2	90.5	89.4	84.8	80	82.5	86	83	86.5	83.0	87.0
GPM	21		23	23	22	19	23	15	15	24	33	15	20	11.5
AIR PRESS. DROP IN W.C.	0.2		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
WATER PRESS. DROP FT.W.C.	2.0		10.0	10.0	10.0	2.0	10.0	2.0	2.0	3.0	4.0	2.0	2.5	2.0
MIN FILTER AREA SQ.FT.	16.8	9.4	15.5	15.5	12.2	12.8	17.3	22.3	21.7	17.2	26.3	8.3	17.8	12.9
INITIAL AIR PRESS. DROP IN W.C.	.16	.126	.16	.12	.2	.1	.17	.18	.17	.17	.15	.11	.15	.15
FINAL AIR PRESS. DROP IN W.C.	.40													

REMARKS: 1. ALL FAN MOTORS ARE 1750 RPM/460V/3PH.
 2. AHU NO RR3-2 HAS DUAL COOLING COIL SPLIT EQUALLY ON FACE.
 3. ALL AHU'S ARE HORIZONTAL DRAW THRU EXCEPT BA-103-1 & 2 WHICH ARE VERTICAL DRAW THRU.

PUMP SCHEDULE

PUMP NO.	GPM	TOT. HEAD	MAX. HP	VOLTS / PH	STARTER SIZE
1209-1	93	30'	1 1/2	480 / 3	0
1209-2	93	30'	1 1/2	480 / 3	0
1209-3	21	20'	1/3	120 / 1	---
1209-4	13	20'	1/4	120 / 1	---
1209-5	41	20'	1/2	480 / 3	0
1209-6	20	20'	1/3	120 / 1	---
M424-1	95	30'	2	480 / 3	0
M424-2	95	30'	2	480 / 3	0
M424-3	21	20'	1/3	120 / 1	---
M424-4	39	20'	1/2	480 / 3	0
M424-5	13	20'	1/4	120 / 1	---
M424-6	21	20'	1/3	120 / 1	---
508-1	60	30'	1 1/2	208 / 3	0
508-2	60	30'	1 1/2	208 / 3	0
508-3	27	20'	1/3	120 / 1	---
508-4	11	20'	1/4	120 / 1	---
508-5	34	20'	1/2	480 / 3	0
RR-3-1	75	30'	1 1/2	208 / 3	0
RR-3-2	75	30'	1 1/2	208 / 3	0
RR-3-3	17	20'	1/4	120 / 1	---
RR-3-4	50	20'	1/2	480 / 3	0
BA103-1	38	30'	1	208 / 3	0
BA103-2	38	30'	1	208 / 3	0
BA103-3	6	20'	1/4	120 / 1	---
BA103-4	21	20'	1/4	120 / 1	---

REMARKS: 1. PUMP MOTORS RPM - 1750

LOUVERED PENTHOUSE SCHEDULE

PENTHOUSE NO.	TOTAL CFM	NECK SIZE	HEIGHT	FREE AREA
1209-1	3470	24 x 24	24	4.7
1209-2	2940	18 x 18	24	3.3
1209-3	2720	24 x 24	20	4.7
1209-4	2620	24 x 24	20	4.7
M424-1	1840	24 x 24	16	4.1
M424-2	2080	24 x 24	16	4.1
M424-3	3650	36 x 36	16	7.3
M424-4	4500	24 x 24	24	6.0
508-1	23,220	84 x 84	32	46.5
508-2	5200	36 x 36	20	6.9
508-3	5200	36 x 36	20	6.9
RR-3-1	3600	36 x 36	16	7.2
RR-3-2	6800	48 x 48	20	13.6

REMARKS: 1. PENTHOUSE SHALL BE ALL ALUM. MITERED CORNERTYPE. LOUVER SHALL BE 4" THICK W/4" BLADE SPACING AND W/BIRD SCREEN.
 2. MAX. AIR PD SHALL BE 0.08" AT 700 FPM OVER FREE AREA.

MISC. FILTER SCHEDULE

FILTER NO.	CFM	MAX. FACE VEL.	CONFIGURATION
1209-1	3680	350	A
1209-2	7000	350	A
1209-3	3520	350	A
M424-1	3680	350	A
M424-2A	6700	350	A
M424-2B	6700	350	A
M424-3	3680	350	A
508-1	4320	350	B
508-2	3500	350	B
508-3	5800	350	A
RR-3-1	8600	350	B
RR-3-2	2860	350	A
BA103-1	1115	350	A
BA103-2	3600	350	B

REMARKS: 1. INITIAL AIR PD - 0.15"
 2. FINAL AIR PD - 0.3"
 3. FILTER SHALL BE 2" THICK, 30% EFFICIENT AS PER ASHRAE 52-76
 4. CONFIGURATION: A-2" THICK FIELD FABRICATED TRACK INSIDE DUCT. B-FACTORY FABRICATED "V" BANK HOUSING.

PRESS. REDUCING VALVE SCHEDULE

VALVE NO.	1209-1	1209-2	1209-3	M424-1	M424-2	M424-3	508-1	508-2	508-3	RR-3-1	RR-3-2	RR-3-3	BA103-1	BA103-2	BA103-3
STEAM FLOW LBS./HR.	2000	3200	2000	1930	1980	1400	1420	2455	870	1410	2545	1475	800	2230	870
INLET PRESSURE PSI.	100	100	100	125	125	125	125	125	125	100	100	100	50	50	50
OUTLET PRESSURE PSI.	10	30	10	10	30	10	10	30	10	10	30	10	10	30	10
BY PASS GLOBE VALVE SIZE	1	1 1/2	1	1	1	3/4	1	1 1/4	3/4	1	1 1/4	3/4	1	1 1/2	3/4

REMARKS: 1. ALL PUMP MOTORS ARE 1750 RPM

CONDENSATE PUMP SCHEDULE

PUMP NO.	1209-1	M424-1	508-1	RR3-1
GPM	35	30	25	25
T.D.H.	100	75	75	75
H.P. (MAX.)	7 1/2	5	5	5
RECEIVER CAP GAL (MIN.)	49	49	49	49
ELECTRICAL (VOLT/PH)	480/3	480/3	208/3	208/3

REMARKS: 1. ALL PUMP MOTORS ARE 1750 RPM
 2. ELECTRICAL STARTERS - 1209 IS SIZE 1, ALL OTHERS ARE SIZE-0

LOUVER SCHEDULE

LOUVER NO.	TOTAL CFM	QUANTITY	LOUVER SIZE	FREE AREA
1209-1	3680	1	42 X 36	6.0
1209-2A,B,C	5870	3	36 X 24	1.75
1209-3A,B	3270	2	36 X 20	1.75
1209-4	7000	1	84 X 32	14.2
1209-5A,B,C	5120	3	36 X 24	1.75
1209-6A,B,C	5020	3	36 X 24	1.75
1209-7	3520	1	48 X 28	5.9
M424-1	3680	1	48 X 30	7.2
M424-2A,B,C	4240	3	36 X 18	1.75
M424-3A,B,C	4480	3	36 X 20	1.75
M424-4 A,B	6700	2	36 X 36	4.8
M424-5A,B,C	6050	3	36 X 24	1.75
M424-6	3680	1	48 X 30	7.2
M424-7A,B,C	4500	3	36 X 20	1.75
508-1	5800	1	42 X 48	5.3
RR-3-1	2860	1	48 X 24	5.9
BA-103-1	2900	1	24 X 48	3.8
BA-103-2	6250	1	42 X 52	8.3
BA-103-3	6400	1	48 X 48	8.5
BA-103-4	1115	1	36 X 18	2.3
BA-103-5	3600	1	60 X 24	4.8

REMARKS: 1. LOUVERS SHALL BE 4" THICK W/2" BLADE SPACING COMPLETE W/ BIRD SCREEN.
 2. MAX. AIR PD: 0.05" AT 700 FPM OVER FREE AREA.

CONDENSING UNIT SCHEDULE

UNIT NO.	1209-1	1209-2	1209-3	1209-4	M424-1	M424-2	M424-3	508-1	508-2	RR-3-1	RR-3-2	BA103-1	BA103-2
TOTAL COOLING BTU/HR													
SATURATED SUCTION TEMP	42	45	41	41	41	41	40	45	44	43	43	45	40
MAX. UNIT KW	399	9.5	28.7	28.7	28.7	28.7	28.5	39.4	38.9	409	524	9.5	28.5

REMARKS: 1. O.A. AMBIENT - 90°F db
 2. ELECTRICAL POWER - 460 V/3 PH.
 3. COMPRESSOR KW INCLUDES POWER DRAWN BY CONDENSER FAN
 4. UNIT NO RR3-2 HAS TWO REFRIGERANT CIRCUITS.

THRU WALL A.C. UNIT SCHEDULE

TYPE NO.	(1)	(2)
TOTAL COOLING BTU/HR.	10,500	13,100
TOTAL HEATING BTU/HR.	12,510	13,140
MIN. OUTSIDE AIR	60	70
ELECTRICAL (VOLT/PH)	277/1	277/1

REMARKS: 1. COOLING IS BASED ON 80°F db, 67°F wb. RETURN AIR AND 95°F O.A.
 2. HEATING IS BASED ON 180°F ENT. WATER AND 59°F ENT. AIR.
 3. WATER FLOW TO ALL UNITS - 1 GPM.

HEATING COIL SCHEDULE

COIL NO.	1209-1	1209-2	1209-3	1209-4	1209-5	1209-6	1209-7	1209-8	M424-1	M424-2	M424-3	M424-4	508-1	508-2	508-3	RR3-1	RR3-2	BA-103-1	BA-103-2
SIZE WXH	45x45	24x30	12x30	15x6	15x6	18x6	30x54	36x36	27x27	36x36	24x30	27x27	30x30	24x24	36x48	27x27	35x54	21x39	28x28
TOTAL HEATING BTU/H	214,600	120,960	56,500	8,800	16,200	19,880	408,200	205,200	214,600	390,700	120,900	214,600	251,900	120,900	338,200	166,800	501,500	66,200	209,952
CFM	3680	3500	2010	340	390	530	7000	3520	3680	6700	3500	3680	432						



FAN SCHEDULE

FAN NO.	SERVICE	CFM	STATIC IN WG	RPM	FAN WHEEL DIA. IN.	FAN TYPE	MAX HP	ACCESSORIES	VOLTS	STARTER SIZE
1209-1		2180	0.5	1360	14	A-2	1/2	A,C,D,E	480	0
1209-2		1500	0.75	1250	14	B-2	1/2	A,C,D,E	480	0
1209-3		1500	1.625	1000	14	B-2	1/2	B,D	480	0
1209-4		3500	1.75	1440	18	B-2	2	B,D	480	0
1209-5		500	0.25	1300	9	A-1	1/30	A,C,D,E,I	120	0
1209-6		5400	0.5	1000	24	A-1	1/30	A,C,D,E,I	120	0
1209-7		7000	1.0	950	24	C-1	3	C,D,E	480	0
1209-8		1800	0.75	1250	14	B-2	1/2	A,C,D,E	480	0
1209-9		1500	1.625	1000	14	B-2	1/2	A,C,D,E	480	0
1209-10		1500	1.625	1000	14	B-2	1/2	B,D	480	0
1209-11		500	0.25	1300	9	A-1	1/30	A,C,D,E,I	120	0
1209-12		500	0.25	1300	9	A-1	1/30	A,C,D,E,I	120	0
1209-13		200	0.25	1300	9	A-1	1/30	A,C,D,E,I	120	0
1209-14		600	0.75	1405	10	A-2	1/2	A,C,D,E	480	0
1209-15		150	0.25	1550	6 1/2	A-1	1/40	A,C,D,E	120	0
1209-16		150	0.25	1550	6 1/2	A-1	1/40	A,C,D,E	120	0
1209-17		640	0.25	1140	10	B-1	1/2	A,C,D,E	120	0
1209-18		220	0.25	1300	7 1/2	D-1	1/60	A,C,D,E	120	0
1209-19		220	0.25	1300	7 1/2	D-1	1/60	A,C,D,E	120	0
1209-20		220	0.25	1300	7 1/2	D-1	1/60	A,C,D,E	120	0
1209-21		220	0.25	1300	7 1/2	D-1	1/60	A,C,D,E	120	0
1209-22		220	0.25	1300	7 1/2	D-1	1/60	A,C,D,E	120	0
1209-23		220	0.25	1300	7 1/2	D-1	1/60	A,C,D,E	120	0
1209-24		3680	1.0	1570	18	C-2	2	G,H,D	480	0
1209-25		3520	1.0	1570	18	C-2	2	A,C,D,F	480	0
1209-26		3520	1.0	1570	18	C-2	2	G,H,D	480	0
M424-1		3680	0.375	1030	18	A-2	3/4	A,C,D,E	480	0
M424-2		1500	0.5	1000	14	B-2	1/2	A,C,D,E	120	0
M424-3		1500	1.625	1000	14	B-2	1/2	B,D	480	0
M424-4		1500	1.625	1000	14	B-2	1/2	B,D	480	0
M424-5		500	0.375	1300	9 1/2	A-1	1/12	A,C,D,E,I	120	0
M424-6		200	0.375	1300	7 1/2	D-1	1/60	A,C,D,E	120	0
M424-7		200	0.375	1300	7 1/2	D-1	1/60	A,C,D,E	120	0
M424-8		200	0.375	1300	7 1/2	D-1	1/60	A,C,D,E	120	0
M424-9		200	0.375	1300	7 1/2	D-1	1/60	A,C,D,E	120	0
M424-10		200	0.375	1300	7 1/2	D-1	1/60	A,C,D,E	120	0
M424-11		5100	0.5	920	24	D-2	1/2	C,D,E	480	0
M424-12		1600	0.5	1145	14	B-2	1/2	A,C,D,E	120	0
M424-13		150	0.25	1550	6 1/2	A-1	1/30	A,C,D,E	120	0
M424-14		600	0.25	1140	10	A-1	1/30	A,C,D,E	120	0
M424-15		600	0.25	1140	10	B-1	1/2	A,C,D,E	120	0
M424-16		200	0.375	1300	7 1/2	D-1	1/60	A,C,D,E	120	0
M424-17		200	0.375	1300	7 1/2	D-1	1/60	A,C,D,E	120	0
M424-18		200	0.375	1300	7 1/2	D-1	1/60	A,C,D,E	120	0
M424-19		1500	1.625	1000	14	B-2	1/2	B,D	480	0
M424-20		500	0.375	1300	9 1/2	A-1	1/12	A,C,D,E,I	120	0
M424-21		1500	0.5	1000	14	B-2	1/2	B,D	480	0
M424-22		3680	0.375	1030	18	A-2	3/4	A,C,D,E	480	0
M424-23		1500	0.5	1000	14	B-2	1/2	B,D	480	0
M424-24		6700	1.0	900	24	C-2	3	G,H,D	480	0
M424-25		3520	1.0	1570	18	C-2	2	G,H,D	480	0
M424-26		3680	1.0	1570	18	C-2	2	G,H,D	480	0
508-1		285	0.125	1550	7 1/2	D-1	1/40	C,D,E	120	0
508-2		285	0.125	1550	7 1/2	D-1	1/40	C,D,E	120	0
508-3		285	0.125	1550	7 1/2	D-1	1/40	C,D,E	120	0
508-4		285	0.125	1550	7 1/2	D-1	1/40	C,D,E	120	0
508-5		500	0.375	1300	9 1/2	A-1	1/12	A,C,D,E,I	120	0
508-6		500	0.375	1300	9 1/2	A-1	1/12	A,C,D,E,I	120	0
508-7		1500	1.625	1000	14	B-2	1/2	B,D	480	0
508-8		1500	1.625	1000	14	B-2	1/2	B,D	480	0
508-9		3500	1.75	970	24	B-2	2	B,D	480	0
508-10		1500	0.5	1330	13	C-2	1/2	G,H,D	120	0
508-11		2820	0.5	880	18	C-2	1/2	G,H,D	480	0
508-12		300	0.5	1140	12	D-1	1/8	C,D,E	120	0
508-13		5100	0.75	885	24	D-1	2	C,D,E	480	0
508-14		200	0.25	1550	6 1/2	A-1	1/30	A,C,D,E	120	0
508-15		600	0.25	1140	10	B-1	1/2	A,C,D,E	120	0
508-16		4320	1.0	1310	18	C-2	2	G,H,D	480	0
508-17		3500	1.0	1400	18	C-2	1/2	G,H,D	480	0
508-18		5800	1.0	840	24	C-2	3	G,H,D	480	0
508-19		400	0.25	860	12	D-1	1/12	C,D,E	120	0
508-20		400	0.25	860	12	D-1	1/12	C,D,E	120	0
RR-3-1		680	0.5	1550	9 1/2	A-1	1/8	A,C,D,E	120	0
RR-3-2		1500	1.625	1290	14	B-2	1/2	B,D	480	0
RR-3-3		1500	1.625	1290	14	B-2	1/2	B,D	480	0
RR-3-4		1000	0.375	1725	12	D-1	1/4	C,D,E,I	120	0
RR-3-5		480	0.25	1550	9	D-2	1/3	C,D,E	120	0
RR-3-6		3400	0.25	805	24	D-2	1	C,D,E	480	0
RR-3-7		3400	0.25	805	24	D-2	1	C,D,E	480	0
RR-3-8		1800	0.75	1350	14	B-2	1/2	A,C,D,E	480	0
RR-3-9		255	0.375	1550	8 1/2	A-1	1/20	A,C,D,E	120	0
RR-3-10		200	0.25	1550	8	B-1	1/2	A,C,D,E	120	0
RR-3-11		600	0.25	1140	10	B-1	1/2	A,C,D,E	120	0
RR-3-12		8600	1.0	660	30	C-2	3	G,H,D	480	0
RR-3-13		2860	1.0	1080	18	C-2	1	G,H,D	480	0
BA-103-1		600	0.625	1300	10	B-2	1/4	A,C,D,E	120	0
BA-103-2		515	0.375	1140	10	A-1	1/12	A,C,D,E	120	0
BA-103-3		200	0.375	1650	7	A-1	1/30	A,C,D,E	120	0
BA-103-4		2000	1.75	1250	18	B-2	2	B,D	208	0
BA-103-5		500	0.375	1300	9 1/2	A-1	1/12	A,C,D,E,I	120	0
BA-103-6		3500	0.75	680	24	B-2	1	A,C,D,E	208	0
BA-103-7		200	0.375	1650	7	A-1	1/30	A,C,D,E	120	0
BA-103-8		400	0.5	1550	9	B-1	1/20	A,C,D,E	120	0
BA-103-9		100	0.375	1550	7	A-1	1/30	A,C,D,E	120	0
BA-103-10		1115	0.75	1420	10	C-1	1/3	G,H,D	120	0
BA-103-11		3500	1.0	1490	16	C-2	2	G,H,D	208	0

REMARKS

1. FAN NO.
2. SERVICE
3. CFM
4. STATIC IN WG
5. RPM
6. FAN WHEEL DIA. IN.
7. FAN TYPE
8. MAX HP
9. ACCESSORIES
10. VOLTS
11. STARTER SIZE

GRILLES, REGISTER AND DIFFUSER SCHEDULE

ITEM	DESCRIPTION
(A)	PERFORATED FACE SUPPLY DIFFUSER WITH PATTERN CONTROLLER, VOLUME CONTROL DAMPER, AND 24" x 24" PANEL SUITABLE FOR INVERTED T-BAR LAY-IN CEILING.
(B)	SAME AS ITEM (A) EXCEPT 24" x 48" PANEL.
(C)	SAME AS ITEM (A) EXCEPT 12" x 12" PANEL SUITABLE FOR GYPSUM BOARD CEILING.
(D)	SAME AS ITEM (C) EXCEPT 16" x 16" PANEL.
(E)	SAME AS ITEM (C) EXCEPT 20" x 20" PANEL.
(F)	SAME AS ITEM (C) EXCEPT 24" x 24" PANEL.
(G)	PERFORATED FACE RETURN REGISTER WITH VOLUME CONTROL DAMPER AND 24" x 24" PANEL SUITABLE FOR INVERTED T-BAR LAY-IN CEILING.
(H)	SAME AS ITEM (G) EXCEPT 48" x 24" PANEL.
(J)	SAME AS ITEM (G) EXCEPT 12" x 12" PANEL SUITABLE FOR GYPSUM BOARD CEILING.
(K)	SAME AS ITEM (J) EXCEPT 16" x 16" PANEL.
(L)	SAME AS ITEM (J) EXCEPT 20" x 20" PANEL.
(M)	SAME AS ITEM (J) EXCEPT 24" x 24" PANEL.
(N)	SAME AS ITEM (J) EXCEPT 48" x 24" PANEL.
(P)	PERFORATED FACE SIDEWALL RETURN REGISTER WITH VOLUME CONTROL DAMPER; MINIMUM 1" WIDE FLANGE WITH SCREW HOLES.
(S)	CURVED BLADE CEILING MOUNTED SUPPLY REGISTER WITH VOLUME CONTROL DAMPER AND SUITABLE FOR GYPSUM BOARD CEILING.
(T)	SIDEWALL SUPPLY REGISTER WITH TWO SETS OF ADJUSTABLE PARALLEL BLADE LOUVERS, VOLUME CONTROL DAMPERS AND MINIMUM 1" WIDE FLANGE. FRONT BLADES SHALL BE VERTICAL AND BACK BLADES SHALL BE HORIZONTAL.
(U)	LOUVERED FACE SUPPLY DIFFUSER, WITH VOLUME CONTROL DAMPER.

- NOTES:**
1. ITEMS (A), (B), (C), (D), (E), (F), (G), (H), (I), (J), (K), (L), (M), (N), (O), (P), (Q), (R), (S), (T), (U) SHALL HAVE STEEL PERFORATED PLATE WITH ALUMINUM BORDER.
 2. ITEMS (A), (B), (C), (D), (E), (F), (G), (H), (I), (J), (K), (L), (M), (N), (O), (P), (Q), (R), (S), (T), (U) SHALL HAVE ALL ALUMINUM CONSTRUCTION.
 3. ITEMS MOUNTED IN CEILING AND SOFFIT SHALL HAVE OFF-WHITE FINISH.
 4. ITEMS MOUNTED ON WALL SHALL HAVE NATURAL FINISH.
 5. SEE DRAWING FOR AIR FLOW PATTERN.

BASEBOARD RADIATOR SCHEDULE

- (A) HOT WATER RADIATOR WITH SLOPE TOP FRONT COVER, AND COMPLETE WITH WALL MOUNTING ACCESSORIES. THE RADIATOR SHALL HAVE (3) ELEMENTS PLACED AT 6" ON CENTER. EACH ELEMENT SHALL BE 1-1/4" COPPER TUBES WITH 4-1/4" x 4-1/4" WIDE, .02" THICK ALUMINUM FINS. PLACED AT 40 FINS/INCH. THE MINIMUM RATING SHALL BE 1930 BTU/LINEAR FEET AT 170 DEGREES F., AVG. WATER TEMPERATURE AND 65 DEGREES F. ENTERING AIR. SEE DRAWINGS FOR LENGTH.
- (B) ELECTRIC CAST ALUMINUM GRID RADIATOR WITH COVER. RATING SHALL BE 750 WATTS, 120 VOLTS, 1 Ø, COMPLETE WITH THERMOSTAT AND END COVER PLATES.

SPECIFIC NOTES

1. REMOVE EXISTING STEAM UNIT HEATER WITH TRAP VALVES AND ACCESSORIES AND CAP PIPING AT MAIN IF MAIN PIPING IS NOT REMOVED.
2. REMOVE EXISTING WINDOW AIR CONDITIONER.
3. REMOVE EXISTING WINDOW MOUNTED EXHAUST FAN AND CLOSE WINDOW.
4. REMOVE EXISTING DUCTWORK AND GRILLES.
5. ABANDON IN PLACE EXISTING DUCTWORK, GRILLES AND DIFFUSER.
6. REMOVE EXISTING HEATING UNIT WITH STEAM COIL, VALVES, TRAPS AND OTHER ACCESSORIES.
7. REMOVE EXISTING CONDENSATE PUMP, PIPING VALVES AND TRAPS.
8. REMOVE STEAM PIPING, VALVES AND TRAPS CONNECTED TO HEATER.
9. REMOVE EXISTING STEAM PIPING DOWN TO STEAM TABLE.
10. REMOVE EXISTING STEAM PIPING, VALVES, TRAPS, AND ACCESSORIES TO COOKING EQUIPMENT. SALVAGE AND REBUILD PRESSURE REGULATING VALVE TO PROPER WORKING CONDITION.
11. INSTALL NEW STEAM PIPING AFTER COOKING EQUIPMENT HAS BEEN REINSTALLED. PROVIDE NEW VALVES, TRAPS, AND ACCESSORIES AS SHOWN ON DETAIL NO. 11 ON SHEET M-14. ALSO PROVIDE ESCUTCHEON PLATE AT EACH WALL PENETRATION.
12. FOR PIPING, VALVES, AND ACCESSORIES AT EQUIPMENT, SEE DETAILS ON SHEET M-13 AND M-14.

DUCTWORK NOTES

1. ALL DUCT SIZES ARE ACTUAL AIR PATH SIZES.
2. PROVIDE 1" THICK INTERNAL LINER, IN ALL DUCTWORK FOR AIR HANDLING UNITS.
3. DO NOT PROVIDE ANY INSULATION ON MAKEUP AIR UNITS AND EXHAUST FAN.
4. WHEN PIPING OF TWO DISSIMILAR METALS ARE CONNECTED, PROVIDE DIELECTRICAL FITTING BETWEEN THEM.

CONTROL VALVE SCHEDULE

NO.	SERVICE	RPM	LBS/HR	MAX HP	NOTES	
1209-1	AHU-1209-1 HMC01	21	--	8.5ps1	1	
2	AHU-1209-3 "	23	--	8.5ps1	1	
3	" "	23	--	8.5ps1	1	
4	HEATING COIL - 1209-1 MU	21	--	8.5ps1	1	
5	" "	21	--	8.5ps1	1	
6	" "	13	--	8.5ps1	1	
7	3 REHEAT	5	--	8.5ps1	1	
8	4 REHEAT	1	--	8.5ps1	1	
9	5 REHEAT	2	--	8.5ps1	1	
10	6 REHEAT	2	--	8.5ps1	1	
11	" "	41	--	8.5ps1	1	
12	CONVERTOR	8 MU	20	--	8.5ps1	1
13	HOT WATER GENERATOR	--	1930	5ps1	--	
			2000	5ps1	--	
424-1	AHU-424-1 HMC01	22	--	8.5ps1	1	
2	" "	19	--	8.5ps1	1	
3	" "	23	--	8.5ps1	1	
4	" "	23	--	8.5ps1	1	
5	HEATING COIL - 424-1 MU	11.5	--	8.5ps1	1	
6	" "	21	--	8.5ps1	1	
7	" "	39	--	8.5ps1		

