PACKAGED ROOFTOP AC UNIT SCHEDULE

TAG	MFR & MODEL	LOCATION	AREA SERVED	NOM. CAP. (TONS)	SUPPLY AIRFLOW (CFM)	SUPPLY MIN OSA (CFM)	SUPPLY ESP (IN.WG.)	COOLING TOTAL (MBH)	COOLING SENS (MBH)	COOLING SEER/ EER	HEATING INPUT (MBH)	HEATING OUTPUT (MBH)	ELECTRICAL V/PH	ELECTRICAL FLA (A)	ELECTRICAL MOCP/ MCA (A)	OPER. WT. (LBS)	NOTES
AC 1S	CARRIER 48PGLM06	ROOF	DINING	5	1,970	410	0.80	55.0	52.8	14.6/12.0	75.0	60.8	460/3	14.4	21.6/16.8	1,581	1, 2, 3, 5, 6, 7, 8, 12
AC 2S	CARRIER 48PGMM05	ROOF	DINING	4	1,600	400	0.80	42.6	41.0	14.8/12.0	75.0	60.8	460/3	11.6	17.0/13.4	1,561	1, 2, 3, 5, 6, 7, 8, 12
AC 3S	CARRIER 48PGMM05	ROOF	DINING	4	1,470	361	0.80	42.6	41.0	14.8/12.0	75.0	60.8	460/3	11.6	17.0/13.4	1,561	1, 2, 3, 5, 6, 7, 8, 12
AC 4S	CARRIER 48PGLM06	ROOF	DINING	5	1,690	400	0.80	53.4	49.2	14.6/12.0	75.0	60.8	460/3	14.4	21.6/16.8	1,581	1, 2, 3, 5, 6, 7, 8, 12
AC 5S	CARRIER 48PGDM12	ROOF	DINING/ BAR	10	3,650	1,110	0.80	107.0	103.2	–/12.0	181.0	148.4	460/3	29.6	36.8/32.0	2,103	1, 2, 3, 4, 5, 6, 7, 8, 12
AC 6S	CARRIER 48PGMM06	ROOF	KITCHEN	5	2,500	540	1.00	57.7	56.2	14.6/12.0	113.0	91.5	460/3	14.4	21.6/16.8	1,581	1, 2, 3, 4, 5, 6, 7, 8, 10, 11, 12
AC 1A	CARRIER 48PGNM03	ROOF	OFFICES	2	1,000	120	0.80	23.3	22.9	14.0/11.4	51.0	39.4	208/1	19.2	30.0/21.9	1,194	1, 2, 3, 4, 5, 6, 7, 9, 10, 12
AC 2A	CARRIER 48PGMM04	ROOF	OFFICES	3	1,500	305	0.80	33.8	33.8	14.0/11.7	75.0	60.8	460/3	9.1	13.0/10.1	1,406	1, 2, 3, 5, 6, 7, 8, 10, 12
AC 1C	CARRIER 48PGLM04	ROOF	CONCESSION/ KITCHEN	3	1,050	414	0.60	32.3	30.9	14.0/11.7	51.0	41.3	460/3	9.1	13.0/10.1	1,406	1, 2, 3, 5, 6, 7, 8, 12

NOTES:

1. PROVIDE 2" DEFLECTION ISOLATOR CURB
2. COOLING CAPACITY BASED ON OUTDOOR 102°F DB AND INDOOR ENT. AIR 62°F WB.
3. PROVIDE 2" PLEATED FILTER BY CAMFIL FARR AEROPLEAT III W/ MERV 6 30% MIN. EFFICIENCY
4. PROVIDE FLUE DISCHARGE DEFLECTOR
5. PROVIDE 100% DRY-BULB TYPE ECONOMIZER
6. PROVIDE TIMEGAURD II COMPRESSOR CYCLE DELAY
7. DUCT SMOKE DETECTOR
8. PROVIDE MICROMETL CENTRIFUGAL MODULATING POWER EXHAUST WITH SPACE PRESSURE SENSOR & VFD.
   -VOLTAGE/PHASE: 208/1 FOR 48PG03 & 460/3 FOR 48PG04-12
   -HP: 1/2 HP FOR 48PG03-06 & 2 HP FOR 48PG12

   POWER EXHAUST NOTES:

   A. CONTRACTOR SHALL CALIBRATE EXHAUST AS NECESSARY FOR BUILDING PRESSURE RELIEF.
   B. ELECTRICAL SHALL PROVIDE ONE DISCONNECT SWITCH AND SINGLE FEED FOR UNIT AND POWER EXHAUST.
   C. SPACE PRESSURE TUBING (SPT) FURNISHED AND INSTALLED BY MECHANICAL CONTRACTOR. MECHANICAL CONTRACTOR SHALL CONNECT SPT TO ROOM STATIC PRESSURE SENSOR. PROVIDE KELE RPS-W ROOM STATIC PRESSURE SENSOR. MOUNT IN CEILING 3 FT. MIN. AWAY FROM ALL SUPPLY AND RETURN GRILLES. PAINT SENSOR PLATE TO MATCH CEILING.
9. PROVIDE BAROMETRIC RELIEF
10. PROVIDE FIELD SUPPLIED DIRVE REQUIRED.
11. PROVIDE HIGH RANGE MOTOR/DRIVE REQUIRED.
12. LOW RANGE FAN OPTION

REMARK(S):

A. CONTRACTOR SHALL BE RESPONSIBLE FOR FINAL MOTORS, DRIVES, BELTS, AND/OR SHEEVES SELECTIONS BASED ON FINAL DUCTWORK ROUTING.
B. CONTRACTOR SHALL COORDINATE WITH THE MFR. FOR ALL REQUIRED ACCESSORIES FOR A COMPLETE AND FULLY FUNCTIONAL SYSTEM AND INSTALLATION PRIOR TO FINAL BID.

GRAVITY VENTILATOR SCHEDULE

TAG	MFR & MODEL	LOCATION	SERVICE	TYPE	CFM	SP (IN.WG.)	MINIMUM FREE AREA (SQ.FT.)	THROAT SIZE	HOOD SIZE	WEIGHT (LBS)	NOTES
GV 1A	COOK PR-8	ROOF	MEN'S/WOMEN'S RESTROOMS	INTAKE	355	0.100	1.38	8-1/2"ø	18-1/4"ø	70	1, 2, 3
GV 1C	COOK PR-12	ROOF	WOMEN'S R.R./ JANITOR	INTAKE	525	0.100	2.04	12-1/2"ø	28-1/4"ø	80	1, 2, 3
GV 2C	COOK PR-12	ROOF	MEN'S RESTROOM/ ELECTRICAL	INTAKE	560	0.100	2.04	12-1/2"ø	28-1/4"ø	80	1, 2, 3
GV 1S	COOK PR-16	ROOF	DRY STORAGE	INTAKE	750	0.100	3.08	16-1/2"ø	28-1/4"ø	85	1, 2, 3

NOTES:

1. PROVIDE ROOF CURB
2. PROVIDE BACKDRAFT DAMPER (COUNTER-BALANCE TYPE)
3. PROVIDE BIRDSCREEN

FAN COIL UNIT SCHEDULE

TAG	MFR & MODEL	LOCATION	AREA SERVED	SUPPLY AIR (CFM)	OSA (CFM)	ESP (IN.WG.)	ELECTRICAL FLA	ELECTRICAL MCA/ MOCP	ELECTRICAL V/PH	OPER. WT. (LBS)	NOTES
FC 1A	MITSUBISHI MS-A12WA	WALL	ELECTRICAL	406	–	–	0.95	1.2/15.0	120/1	23	1, 2, 3
FC 2A	MITSUBISHI MS-A12WA	WALL	SERVER	406	–	–	0.95	1.2/15.0	120/1	23	1, 2, 3
FC 1S	MITSUBISHI MS-A12WA	WALL	A/V EQUIP.	406	–	–	0.95	1.2/15.0	120/1	23	1, 2, 3

NOTES:

1. FACTORY SUPPLIED CONDENSATE PUMP (POWERED BY UNIT)
2. PROVIDE FILTER
3. PROCESS COOLING ONLY

CONDENSING UNIT SCHEDULE

TAG	MFR & MODEL	LOCATION	AREA SERVED	NOM. CAP. (TONS)	SEER/ EER	COOLING CAPACITY (MBH)	ELECTRICAL FLA	ELECTRICAL MCA/ MOCP	ELECTRICAL V/PH	OPER. WT. (LBS)	NOTES
CU 1A	MITSUBISHI MU-A12WA	ROOF	ELECTRICAL	1	13.0/–	8.0	11.7	16.0/20.0	120/1	200	1, 2
CU 2A	MITSUBISHI MU-A12WA	ROOF	SERVER	1	13.0/–	8.0	11.7	16.0/20.0	120/1	200	1, 2
CU 1S	MITSUBISHI MU-A12WA	ROOF	A/V EQUIP.	1	13.0/–	8.0	11.7	16.0/20.0	120/1	200	1, 2
CU 2S	REZNOR MASA-150	ROOF	TYPE 1 HOOD	12.5	–/12.7	143.6	32.6	37.3/50	460/3	900	1, 2, 3, 4, 5

NOTES:

1. WITH R410A REFRIGERANT
2. COOLING CAPACITY BASED ON OUTDOOR 105°F DB AND INDOOR ENT. AIR 62°F WB.
3. FIVE MINUTE ANTI-SHORT CYCLE TIMER
4. HOT GAS BYPASS FOR BOTH CIRCUITS – FIELD PIPING CONNECTIONS REQUIRED
5. FILTER DRIER BYPASS FOR BOTH CIRCUITS – FIELD PIPING CONNECTIONS REQUIRED

ELECTRIC RADIANT HEATER SCHEDULE

TAG	MFR & MODEL	LOCATION	AREA SERVED	KW	EFF. (%)	ELECTRICAL VOLT	ELECTRICAL PH	AMP	OPER. WT. (LBS)	NOTES
RH 1M	RE-VERBER-RAY QUARTZ RAY BAH-60-B-30	INDOOR	SERVICE BAY	3.0	76	208	1	14.0	50	1, 2
RH 2M	RE-VERBER-RAY QUARTZ RAY BAH-60-B-30	INDOOR	SERVICE BAY	3.0	76	208	1	14.0	50	1, 2

NOTES:

1. FACTORY SUPPLIED MOUNTING BRACKETS
2. FACTORY SUPPLIED T-STAT.

FAN SCHEDULE

TAG	MFR & MODEL	LOCATION	AREA SERVED	AIR FLOW (CFM)	ESP (IN.WG.)	FAN RPM	HP	ELECTRICAL VOLT	ELECTRICAL PH	OPER. WT. (LBS)	NOTES
EF 1S	COOK VCR 180	ROOF	TYPE 1 HOOD	3,335	1.000	1163	1	460	3	175	3, 4, 5
EF 2S	COOK VCR 150 HP	ROOF	TYPE 1 HOOD	1,222	1.000	1674	3/4	120	1	150	3, 4, 5
EF 3S	COOK ACEB 80	ROOF	WOMEN'S RESTROOM	600	0.375	1624	1/4	120	1	80	1, 2
EF 4S	COOK ACEB 80	ROOF	MEN'S RESTROOM	500	0.375	1467	1/4	120	1	80	1, 2
EF 5S	COOK GC 124	CEILING	JANITOR	50	0.250	654	42.2W	120	1	38	2, 6, 7, 8
EF 6S	COOK GC 340	CEILING	ELECTRICAL	200	0.250	1544	121W	120	1	50	2, 6, 7, 8
EF 7S	COOK GC 124	CEILING	LOCKERS	50	0.250	654	42.2W	120	1	38	2, 6, 7
EF 8S	COOK GC 144	CEILING	UTILITY ROOM	80	0.375	878	66.3W	120	1	40	2, 6, 7
EF 9S	COOK ACEB 100	ROOF	BEER SYSTEM	750	0.375	1601	1/4	120	1	80	1, 2
EF 1A	COOK ACEB 80	ROOF	WOMEN'S RESTROOM	475	0.500	1532	1/4	120	1	80	1, 2
EF 2A	COOK GC 124	CEILING	STORAGE	50	0.250	654	42.2W	120	1	38	2, 6, 7, 8
EF 1C	COOK ACEB 80	ROOF	WOMEN'S RESTROOM	500	0.500	1572	1/4	120	1	80	1, 2
EF 2C	COOK ACEB 80	ROOF	MEN'S RESTROOM	500	0.500	1572	1/4	120	1	80	1, 2
EF 3C	COOK VCR 150 HP	ROOF	TYPE 1 HOOD	789	1.000	1391	1/2	120	1	150	3, 4, 5
EF 4C	COOK GC 142	CEILING	JANITOR	75	0.375	798	40.5W	120	1	40	2, 6, 7, 8
EF 5C	COOK GC-164	CEILING	ELECTRICAL	160	0.500	1215	119W	120	1	40	2, 6, 7, 8
EF 6C	COOK GC 124	CEILING	STORAGE	50	0.250	654	42.2W	120	1	38	2, 6, 7
EF 1M	COOK XMP 20	WALL	MAINTENANCE	2300	0.375	1198	1/2	120	1	200	9, 10
EF 2M	COOK GC 144	CEILING	RESTROOM	100	0.250	929	75.5W	120	1	40	2, 6, 7, 8

NOTES:

1. PROVIDE 16" HIGH SOUND ATTENUATOR ROOF CURB
2. PROVIDE BACKDRAFT DAMPER (BDD)
3. PROVIDE VENTED EXTENSION AND ROOF CURB
4. PROVIDE HINGED BASE ROOF CURB
5. PROVIDE GREASE TROUGH AND TERMINATOR
6. PROVIDE ALUMINUM GRILLE
7. PROVIDE REMOTE FAN SPEED CONTROL
8. PROVIDE ROOF CURB AND CAP
9. WALL COLLAR AND HEAVY-DUTY SHUTTER
10. SHUTTER AND WIRE GUARD

REMARK(S):

A. REMOTE FAN SPEED CONTROLLERS SHALL BE MOUNTED ON ALL CEILING EXHAUST FANS FOR AIR BALANCING PURPOSES ONLY.
B. CONTRACTOR SHALL VERIFY ALL CEILING EXHAUST FANS ROOF CURB AND CAP QUANTITIES PRIOR TO FINAL BID.

GAS HEATING UNIT SCHEDULE

TAG	MFR & MODEL	LOCATION	AREA SERVED	SUPPLY AIRFLOW (CFM)	SUPPLY ESP/TSP (IN.WG.)	GAS HEAT INPUT (MBH)	GAS HEAT OUTPUT (MBH)	ELECTRICAL VOLT	ELECTRICAL PH	MOTOR (HP)	OPER. WT. (LBS)	NOTES
GHU 1C	REZNOR RDH 75	ROOF	TYPE 1 HOOD	789	0.50/0.56	75.0	60.8	460	3	1/2	1000	1, 2, 3, 4, 5, 6, 7
GHU 1S	REZNOR RDH 250	ROOF	TYPE 1 HOOD	EF-1S= 2,100 EF-2S= 956 EF-1S & 2S= 3,056	0.50/0.98	250.0	202.5	460	3	1-1/2	1954	1, 3, 4, 5, 6, 7, 8, 9, 10

NOTES:

1. NATURAL GAS, DUCT STAT (SET DISCHARGE TEMPERATURE TO 87° F) TWO STAGE FOR GHU-1S
2. REMOTE CONSOLE RC7, ON/OFF – HEAT/VENT/COOL SWITCH
3. 409 STAINLESS STEEL HEAT EXCHANGER (W/10 YEAR WARRANTY)
4. BACKDRAFT DAMPER, 16" HIGH FACTORY ROOF CURB, DUCT SMOKE DETECTOR
5. DOWNTURN PLENUM
6. 2" PRE-FILTER ALUMINUM MESH SCREEN, 2" PERMANENT ALUMINUM FILTER
7. EVAPORATOR COOLER MODULE, 12" MEDIA, WATER HAMMER ARRESTOR, & AQUA SAVER. CONTRACTOR SHALL COORDINATE W/MFR. & PROVIDE REQUIRED CONTROL DEVICES (RELAYS & ETC.) FOR A COMPLETE AND FULLY FUNCTIONAL HEATING W/ EVAP. COOLER UNIT.
8. MULTIPLE POSITION DAMPER, VFD WITH COMPATIBLE MOTOR
9. MASA 150: A. 1/3-2/3-3/3 CIRCUIT, R410A, 1" PERMANENT FILTER, DOUBLE WALL WITH INSULATION, COPPER TUBE/ALUMINUM FIN COIL, & GALVANIZED STEEL COIL CASING
   B. ENT. AIR DB/WB: 102.0/69.0 DEG. F, LVG. AIR DB/WB: 57.6/53.6 DEG. F., TOTAL & SENSIBLE CAPACITIES: 150.0 MBH, AIR PD: 0.24 (IN WC)
10. NO FACTORY CONTROLS. CONTROLS BY CONTROLS CONTRACTOR

DIFFUSER AND GRILLE SCHEDULE

TAG	MFR & MODEL	DESCRIPTION	FACE TYPE	AIRFLOW (CFM)	NECK SIZE (IN.)	DIFFUSER & GRILLE MOUNTING SURFACE	FACE SIZE (IN.)	COLOR	OBD	NOTES
A	KRUEGER 1240	CEILING SUPPLY	MODULAR CORE	SEE PLAN	SEE PLAN	FRAME 23 FOR T-BAR	24"x24"	WHITE	NONE	1, 2, 3
B	KRUEGER 1240	CEILING SUPPLY	MODULAR CORE	SEE PLAN	SEE PLAN	FRAME 22 FOR SURFACE MOUNTING	VARIES	WHITE	NONE	1, 2, 3
C	KRUEGER PTBS	CEILING SUPPLY	LINEAR	SEE PLAN	SEE PLAN	FRAME 22 FOR SURFACE MOUNTING	5 FT. (L) W/ 1x3/4" SLOT	WHITE	NONE	1, 2, 3, 4
D	KRUEGER 6490	CEILING RETURN/SUPPLY	PERFOR.	SEE PLAN	SEE PLAN	FRAME 23 FOR T-BAR	24"x24"	WHITE	NONE	1, 2, 3
E	KRUEGER 1190	CEILING RETURN	PERFOR.	SEE PLAN	SEE PLAN	FRAME 22 FOR SURFACE MOUNTING	VARIES	WHITE	NONE	1, 2, 3
F	KRUEGER PTBR	CEILING RETURN	LINEAR	SEE PLAN	SEE PLAN	FRAME 22 FOR SURFACE MOUNTING	5 FT. (L) W/ 1x3/4" SLOT	WHITE	NONE	1, 2, 3, 5
G	KRUEGER 1190	CEILING EXHAUST	PERFOR.	SEE PLAN	SEE PLAN	FRAME 22 FOR SURFACE MOUNTING	VARIES	WHITE	NONE	1, 2, 3
H	KRUEGER 1190	CEILING TRANSFER	PERFOR.	SEE PLAN	SEE PLAN	FRAME 22 FOR SURFACE MOUNTING	VARIES	WHITE	NONE	1, 2, 3
I	KRUEGER 6490	CEILING TRANSFER/ EXHAUST/RETURN	PERFOR.	SEE PLAN	SEE PLAN	FRAME 23 FOR T-BAR	24"x24"	WHITE	NONE	1, 2, 3
J	KRUEGER PTBS	CEILING SUPPLY	LINEAR	SEE PLAN	SEE PLAN	FRAME 22 FOR SURFACE MOUNTING	5 FT. (L) W/ 3x1" SLOT	WHITE	NONE	1, 2, 3, 4

NOTES:

1. MAX. NECK VELOCITY SHALL BE 400 FPM. UNLESS NOTED OTHERWISE.
2. MAX. NC LEVEL SHALL BE 30. UNLESS NOTED OTHERWISE.
3. MAX. TOTAL PRESSURE DROP SHALL BE 0.06. UNLESS NOTED OTHERWISE.
4. PLASTER FRAME, INTERNAL INSULATION, & HORIZONTAL DISCHARGE. CONTRACTOR SHALL PAINT PLASTER FRAME AND COORDINATE PAINT COLOR WITH ARCHITECT PRIOR TO INSTALLATION.
5. PLASTER FRAME. CONTRACTOR SHALL PAINT PLASTER FRAME AND COORDINATE PAINT COLOR WITH ARCHITECT PRIOR TO INSTALLATION.

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