					\	WALL	LOUV	ERS				
TAG	MODEL NUMBER	TYPE	DUTY	DEPTH (INCHES)	FACE AREA WxH (INCHES)	MIN FREE AREA (SF)	CFM	MAX PRESSURE DROP (IN WC)	INTERLOCKED WITH	ACTUATOR TYPE	MATERIAL	ACCESSORIES/ REMARKS
WL GNE 1-1	ESD-635	STATIONARY	EXHAUST	6	80X84	29.70	30,585	0.14	GENERATOR	N/A	ALUMINUM	1, 3
WL GNI 1-1	ESD-635	STATIONARY	INTAKE	6	80X84	35.00	20,000	0.07	GENERATOR	N/A	ALUMINUM	1,3
WL GNI 1-2	ESD-635	STATIONARY	INTAKE	6	48X90	19.00	14,185	0.08	N/A	N/A	ALUMINUM	2,3
WL GNF	ESD-635	STATIONARY	EXHAUST	6	80X20	4.90	3,600	0.08	N/A	N/A	ALUMINUM	2,3
WL TRM	ESD-635	STATIONARY	EXHAUST	6	80X72	25.27	23,600	0.12	N/A	N/A	ALUMINUM	2,3
WL FPE	ESD-635	STATIONARY	EXHAUST	6	80X24	6.40	4,500	0.07	N/A	N/A	ALUMINUM	2,3
WL FPI	EAC-601	OPERABLE	INTAKE	6	80X28	6.20	4,500	0.08	EF-FP	NORMALLY OPEN	ALUMINUM	3, 11
WL BOILI	EAC-601	STATIONARY	INTAKE	6	30X20	1.43	735	0.04	EF-BOIL	NORMALLY CLOSED	ALUMINUM	1,3
WL BOIE	ESD-635	STATIONARY	INTAKE	6	30X20	1.43	735	0.07	N/A	N/A	ALUMINUM	1,3
WL STI	ESD-635	STATIONARY	INTAKE	6	18X16	0.65	450	0.07	EF-ST	N/A	ALUMINUM	1,3
WL POI	EAC-601	STATIONARY	INTAKE	6	24X18	1.04	515	0.05	EF-POOL	NORMALLY CLOSED	ALUMINUM	2,3
WL POE	ESD-635	STATIONARY	EXHAUST	6	24X18	1.15	515	0.05	N/A	N/A	ALUMINUM	1, 3
WL PW	EAC-601	STATIONARY	INTAKE	6	16X16	0.23	150	0.05	EF-PW	NORMALLY CLOSED		
WL GARI	ESD-635	STATIONARY	INTAKE	6	192X84	71.90	40,000	0.05		N/A	ALUMINUM	3

A. FINAL COLOR SELECTION SHALL BE MADE BY ARCHITECT AT TIME OF SHOP DRAWINGS APPROVAL.

B. ALL LOUVERS SHALL BE AMCA CERTIFIED FOR AIR PERFORMANCE AND WATER PENETRATION. C. ALL INTAKE LOUVERS SHALL BE PROTECTED BY SCREENS. RESIDENTIAL: NOT <1/4" AND NOT >1/2"; COMMERCIAL: >1/4" AND NOT >1".

ACCESSORIES/REMARKS: 1. MOTORIZED DAMPER BEHIND LOUVER

2. GRAVITY BACK DRAFT DAMPER BEHIND LOUVER 3. ALUMINUM BIRD SCREEN

4. INSECT SCREEN 5. KYNAR 500 FINISH 6. BAKED ENAMEL FINISH

7. FACTORY APPLIED PRIMER FINISH (FOR FIELD PAINTING - PAINTING IS BY OTHERS)

SELECTIONS ARE BASED ON GREENHECK

EQUAL PRODUCTS: AIROLITE, ARROW, CARNES, CONSTRUCTION SPECIALTIES, LOUVERS & DAMPERS, POTTORFF, RUSKIN, SAFE-AIR DOWCO.

RILLES	REGISTERS 8	R DIFFUSERS -	RESIDENTIAL

TAG	MFG	SERIES	BLOW DIRECTION	DUTY	NECK SIZE (INCHES)	FACE SIZE	DAMPER	MATERIAL	TYPE	ACCESSORIES
RA	AIRMATE	100	3-WAY	SUPPLY	SEE DWGS	SEE DWGS	YES	STEEL	STAMPED SUPPLY REGISTER	1,3,4
RB	AIRMATE	200	N/A	SUPPLY	SEE DWGS	SEE DWGS	YES	STEEL	DOUBLE DEFLECTION SUPPLY REGISTER FOR SIDEWALL	1,3,4
RC	AIRMATE	170	N/A	RETURN/TXR	SEE DWGS	SEE DWGS	NO	STEEL	STAMPED RETURN GRILLE	3
RD	AIRMATE	170FF	N/A	RETURN	SEE DWGS	SEE DWGS	NO	STEEL	STAMPED RETURN GRILLE W/FILTER	2,3

NOTES (APPLY TO ALL AIR DEVICES):

A. REFER TO ARCHITECTURAL DRAWINGS FOR TYPE OF CEILING AND/OR SUSPENSION SYSTEM. B. FINISH SHAL..

C. DRYER...

D. STEEL... E. REFER TO PLANS AND DETAILS FOR DWELLING UNIT SOFFIT GRILLE SIZES AND TYPES.

1. MOLDED INSULATION (R-6) BLANKET ON BACK PAN

1" MERV 8 FILTER (MAX. VELOCITY OF 200 FPM; 0.10 INCHES W.G. INITIAL RESISTANCE; FLANDERS PRE-PLEAT 40 LPD). 3. FINISH SHALL BE CUSTOM COLOR SELECTED BY THE ARCHITECT. SUBMIT COLOR CHART WITH SHOP DRAWINGS.

4. BALANCING DAMPER AT THE GRILLE EQUAL PRODUCTS: HART & COOLEY, LIMA, TRUAIRE, USAIRE, SPEEDI-GRILLE, SHOEMAKER.

ELECTRIC HEATERS

TAG	SERIES	TYPE	MOUNTING	OUTPUT CAPACITY (KW)	MOUNTING HEIGHT AFF	APPROX. WEIGHT (LBs)	ACCESSORIES
EWH A	AFA	WALL HEATER	SURFACE	3.0	12"	25	1, 2, 3
EWH B	AFA	WALL HEATER	SURFACE	4.8	12"	25	1, 2, 3
EUH A	5100	UNIIT HEATER	HORIZONTAL/VERTICAL	5.0	8'-0"	30	1, 2, 5,
EUH B	5100	UNIIT HEATER	HORIZONTAL/VERTICAL	7.5	8'-0"	30	1, 2, 5,
EUH C	5100	UNIIT HEATER	HORIZONTAL/VERTICAL	10.0	8'-0"	30	1, 2, 5,
ECH A	3380	CEILING HEATER	RECESSED	2.0	CEILING	30	1, 2, 5
WFH A	FDI	IN-FLOOR HEATER	IN FLOOR	1.5	-	-	1,6

INLET dBA (dB)

895 1, 2

895 1, 2

750 1, 2

500 1,2

ACCESSORIES

1,2,3,4,

1,2,3,4,

1,2,3,4,

1,2,3,5

A. ALL HEATERS SHALL BE UL OR ETL TESTED AND LISTED.

B. OUTPUT CAPACITY SCHEDULED IS AT INSTALLED VOLTAGE. COORDINATE WITH ELECTRICAL DWGS. C. ALL HEATERS SHALL HAVE THERMAL OVERLOAD PROTECTION.

D. STAIRWELL AND SPRINKLER RISER ROOM HEATERS - THERMOSTAT SETPOINT SHALL BE 45°F.

. INTEGRAL TAMPERPROOF THERMOSTAT

. INTEGRAL DISCONNECT SWITCH

. SURFACE MOUNTING KIT 1. SEMI-RECESS MOUNTING KIT

5. UNIVERSAL WALL/CEILING MOUNTING BRACKET

6. WALL MOUNTED THERMOSTAT . TEE BAR CEILING MOUNTING KIT

8. CERTIFIED FOR ZERO CLEARANCE TO WALL OR CEILING

SMOKE CONTROL/PRESSURIZATION FANS

AIRFLOW ESP W.SYST MOTOR HP HP

INLINE 13,000 1.00 1.40 7.60 10.0 1770

CONTROLS (APPLIES TO ALL FANS):

ON FIREMAN'S CONTROL PANEL.

1. INTERLOCK DAMPERS TO BE OPEN WHEN FAN IS ENERGIZED AND CLOSED WHEN THE FAN IS DE-ENERGIZED.

2. DIFFERENTIAL PRESSURE SENSOR ACROSS FAN TO CONFIRM FAN OPERATION, TO BE ANNUNCIATED

26,000 | 1.80 | 1.80 | 17.00 | 20.0 | 1770

24,000 | 1.80 | 1.70 | 12.50 | 15.0 | 1770

21,000 | 1.50 | 1.90 | 11.70 | 15.0 | 1770

SELECTIONS BASED ON PRODUCTS BY RAYWALL EQUAL PRODUCTS BY MARKEL, BERKO, QMARK, INDEECO

DUCTLESS MINI SPLIT SYSTEM

8. HINGED FRAME

9. EXTENDED SILL

10. WELDED CONSTRUCTION

12. POWERED OPEN/FAIL CLOSED.

11. CONCEALED LINKAGE AND ACTUATOR FOR REAR FLUSH INSTALLATION

						:		:				
T10	SERIES		15.5	FAN	COIL		CAPACITY		2550	HODE	APPROX. WEIGHT	10050000150
TAG	FAN COIL UNIT/HEAT PUMP UNIT	AREA SERVED	LEVEL	TYPE	TOTAL CFM	TOTAL COOLING (MBH)	SENSIBLE COOLING (MBH)	HP HEAT (MBH)	SEER	HSPF	(LBS) DSS/DCU	ACCESSORIES
DFC/DCU ELEC	PLA36/PUY36	MAIN ELE	LOWER LEVEL 2	W	920	36.0	28.8	-	21	-	53/139	1,3,4,5,6,7,8
DFC/DCU EM	PLA36/PUY36	EMERGENCY ELEC	LOWER LEVEL 2	W	920	36.0	28.8	-	21	-	53/139	1,3,4,5,6,7,8
DFC/DCU MDF	PKA30/PUY30	MDF/MOPF	LEVEL 01	W	705	30.0	23.1	-	18.5	-	53/139	1,3,4,5,6,7,8
DFH/DHP LB	(3) MSZ12/MXZ-3C30	SOUTH PARKING ELEV LOBBY(LL2,LL1, L1, L1.5,L2,L3)	SEE PLAN	W	310	28.4	-	30.0	19.0	10.6	53/137	1,3,4,5,6,7,8
DFH/DHP A	(2) MSZ12/MXZ-2C24	LOBBY VESTIBULE(LL2,LL1)	SEE PLAN	W	310	24.0	-	26.0	19.0	10.6	53/137	1,3,4,5,6,7,8
DFC/DCU ELE4	PKA18/PUY18	ELE ROOM	L4,L1	W	310	18.0	13.9	-	19.8	-	32/139	1,3,4,5,6,7,8
DFC/DCU ELE2	PLA42/PUY42	ELE ROOM	L2	W	920	42.0	33.6	-	21	-	53/139	1,3,4,5,6,7,8
DFC/DCU ELER	PKA12/PUY12	ELE ROOM	L5,LL2	W	310	12.0	10.6	-	19.8	-	32/139	1,3,4,5,6,7,8
DFH/DHP PW	PKA/PUZ24	DOG WASH	LEVEL 01	С	635	24.0	16.3	25.0	16.6	10.4	82/210	1,3,4,5,6,7,8
DFH/DHP FCC	PKA12/PUZ12	FIRE COMMAND	LEVEL 01	W	310	12.0	10.6	18.0	21	10.2	32/139	1,3,4,5,6,8
DFC/DCU IDF	PKA18/PUY18	IDF ROOM	LEVEL 01	W	310	18.0	13.9	-	19.8	-	32/139	1,3,4,5,8
DFC/DCU ELE	PKA30/PUY30	ELE RM &IDF	L15	W	705	30.0	21.6	-	18.5	-	53/139	1,3,4,5,6,7,8
DFH/DHP EMR	PKA/PUZ30	ELEVATOR MECH RM	ROOF	W	705	30.0	21.6	30.0	18.5	9.6	53/139	1,3,4,5,8

NOTES (APPLY TO ALL UNITS):

A. COOLING CAPACITIES ARE BASED ON AN INDOOR EAT OF 80°F DB/67°F WB AND 95°F AMBIENT AND A PROJECT ELEVATION OF 1027'. B. HEAT PUMP HEATING CAPACITY BASED ON AN INDOOR EAT OF 68°F DB AND 4°F ENTERING OUTDOOR UNIT.

D. REFER TO HVAC GENERAL NOTES AND DETAILS FOR ADDITIONAL INFORMATION.

E. INDOOR AND OUTDOOR UNITS SHALL BE INSTALLED PER PLANS, MANUFACTURER'S RECOMMENDATIONS AND LOCAL CODE REQUIREMENTS.

F. DISCONNECT SWITCH FOR OUTDOOR UNIT FURNISHED BY DIV 23, INSTALLED BY DIV 26. G. UNITS SHALL BE EQUIPPED WITH AN INTERNAL CONDENSATE TRAP OR CHECK VALVE.

H. UNITS SHALL MEET SEER2/HSPF2 .

ACCESSORIES (THIS LIST IS NOT ALL INCLUSIVE. IN ADDITION, PROVIDE MANUFACTURER RECOMMEND ACCESSORIES FOR SAFE AND PROPER OPERATION): 1. WIRED WALL MOUNT UNIT CONTROLLER

2. CONDENSATE PUMP AND SAFETY SWITCH 3. COMPRESSOR ANTI-RECYCLE CONTROLS 4. FILTER/DRYER PER MANUFACTURER'S RECOMMENDATIONS

5. REFRIGERANT LINE-SET (VERIFY LENGTH)

SELECTIONS BASED ON PRODUCTS BY MITSUBISHI

EQUAL PRODUCTS BY CARRIER, DAIKIN, LG, JCI, TRANE, SAMSUNG, TOSHIBA, PANASONIC, SANYO

SYSTEM DESCRIPTION AND REQUIREMENTS:

PROVIDE THE FOLLOWING FEATURES LISTED BELOW FOR THE SYSTEM TYPES IDENTIFIED FOR EACH RTU:

SYSTEM WITH HG RE-HEAT COIL. SPACE HUMIDISTAT AND CONTROLS.

SYSTEM, BYPASS DAMPER FOR CONSTANT SPEED FAN OPERATION.

SHALL OPERATE AT CONSTANT DISCHARGE AIR TEMPERATURE CONTROL.

CONTROLLED BY SIGNAL FROM DUCT MOUNTED STATIC PRESSURE SENSOR.

CONSTANT VOLUME, VARIABLE TEMPERATURE. PROVIDE WITH 7-DAY PROGRAMMABLE AUTO CHANGEOVER

CHANGEOVER BYPASS VARIABLE VOLUME. PROVIDE WITH HOT GAS REHEAT ADAPTIVE DEHUMIDIFICATION

STAGED AIR VOLUME FOR RTUS WITH 2-STAGE COOLING SHALL CONSIST OF MULTI-SPEED INDOOR FAN.

FAN SPEED SHALL ADJUST TO MATCH COMPRESSOR OPERATION/STAGING. PROVIDE WITH

HOT GAS REHEAT ADAPTIVE DEHUMIDIFICATION SYSTEM, COIL, HUMIDISTAT, AND CONTROLS.

SINGLE ZONE VARIABLE AIR VOLUME (VAV). PROVIDE WITH VARIABLE SPEED DRIVE ON FAN AND

INTERNAL CONTROLS TO ALLOW COMPRESSOR TO OPERATE WITH VARIABLE AIRFLOWS. RTU

MULTIPLE ZONE VAV SHALL BE PROVIDED WITH SAME FEATURES AS SZ-VAV, BUT FAN SHALL BE

ROOFTOP UNITS (NATURAL GAS HEAT)

6. WALL MOUNTING KIT FOR OUTDOOR UNIT

8. LOW AMBIENT WIND BAFFLE

10. MOUNTING STAND

7. METAL DRAIN PAN FOR OUTDOOR UNIT; DIVERSITECH OR APPROVED EQUAL

9. GUIDES SHALL BE PROVIDED FOR CONCEALED INSTALLATION

							SUPPLY FAN			POWER EX	(HAUST			N	IET COOLIN	G				ŀ	HEATIN	G		FILT	TERS		
	TAC	MANUF	EQUIP SERIES	AREA SERVED	SYSTEM	AIF	LOW (CFM)	MAX	FOD		ESP	CA	APACITY (ME	BH)	EAT (°F)		EFFICIEN	NCY	CAPACI	TY (MBH)	,_ [EFFICIENCY	NO. OF	MEDV	MEDV	WEIGHT	ACCESSORIES
	IAG	IVIAINOI	EQUIF SERIES	ANLA GLIVED	TYPE	TOTAL	OUTSIDE AIR	MOTOR HP	ESP (IN WC)	AIRFLOW (CFM)	(IN WC)	NOM TONS	ТОТ	SENS	DB	WB	IEER	SEER	MAX	MIN (°	F)	% AFUE	CONTROL STAGES	MERV RATING	MERV RATING	(LB)	ACCESSORIES
L							IN MAX	ПГ				TONS							INPUT	OUTPUT			STAGES				
	RTU R-1	CARRIER	48LCRA17	L16 AMENITY	SZ-VAV	4,800	80 820	7 1/2	1.5	4500.0	0.4	17.5	168.8	123.6	78.40	64.7	18.4	12.5	310.0	251.0 6	0 ε	31.0 -	3	8	13	2,095	ALL

A. SCHEDULED COOLING CAPACITY IS BASED ON THE FOLLOWING OUTDOOR AMBIENT TEMPERATURE: 95°F DB AND A PROJECT ELEVATION OF 1097'. B. REFRIGERANT SHALL BE R-410A.

C. SINGLE CIRCUIT WITH TWO COMPRESSORS AND THREE STAGES OF COOLING D. RETURN AND OUTSIDE AIR DAMPERS SHALL BE CLASS 1 LOW-LEAKAGE TYPE.

E. EQUIP ALL UNITS 6 TONS AND LARGER WITH CRANKCASE HEATERS.

F. RTUS SHALL BE PROVIDED WITH 2" PLEATED DISPOSABLE FILTERS, CONDENSATE OVERFLOW SWITCH IN PRIMARY DRAIN PAN, MOTORIZED OUTSIDE AIR DAMPER, STAINLESS STEEL HEAT EXCHANGER WITH DIRECT SPARK IGNITION AND 10 YEAR WARRANTY, COMPRESSOR ANTI-RECYCLE CONTROLS, SINGLE POINT POWER CONNECTION, COOLING OPERATION DOWN TO 40°F, 14" HIGH INSULATED ROOF CURB WITH BASE SLOPED TO MATCH ROOF PITCH.

G. VARIABLE FLOW FAN SYSTEMS SHALL BE PROVIDED WITH VARIABLE SPEED DRIVE AND AIR FLOW MEASURING DEVICE TO MONITOR AND CONTROL OUTSIDE AIR VOLUME. AIR FLOW MEASURING STATION BY CONTROL CONTRACTOR

H. COORDINATE WITH THE ELECTRICAL DRAWINGS FOR THE REQUIRED SHORT CIRCUIT CURRENT RATING OF THE PANELBOARD SERVING THE MULTI-MOTOR OR COMBINATION-LOAD EQUIPMENT. THE EQUIPMENT NAMEPLATE SHALL BEAR A RATING OF NO LESS THAN THE PANELBOARD RATING.

O. MAXIMUM CFM DURING ECONOMIZER MODE SHALL BE 4800 CFM

ACCESSORIES (THIS LIST IS NOT ALL INCLUSIVE. IN ADDITION, PROVIDE MANUFACTURER RECOMMEND ACCESSORIES FOR SAFE AND PROPER OPERATION): 1. 7-DAY PROGRAMMABLE THERMOSTAT WITH FAN-ON-AUTO CONTROL AND AUTO HEATING/COOLING CHANGEOVER. PROVIDE HUMIDISTAT.

2. LOCKING THERMOSTAT COVER 4. POWERED EXHAUST

5. AIR MONITORING STATION BY OTHERS

6. UNIT MOUNTED FACTORY DISCONNECT 7. SMOKE DETECTORS. MOUNT IN RETURN AIRSTREAM

8. MODULATING HOT GAS RE-HEAT ADAPTIVE DEHUMIDIFICATION SYSTEM, CONTROLS & WALL MOUNTED HUMIDISTAT 9. ECONOMIZER FAULT DETECTION AND DIAGNOSTICS (FDD)

10. KINETICS KNM-100B SOUND BARRIER MATERIAL INSIDE OF ROOF CURB AND ON TOP OF ROOF DECK 11. GFCI 15 AMP CONVENIENCE OUTLET POWERED ON LINE SIDE OF DISCONNECT

12. PHASE MONITORING PROTECTION 13. RTU DEMAND CONTROL VENTILATION WIRING AND CONTROLS. PROVIDE WITH ONE WALL MOUNTED

CO2 SENSOR AND ADDITIONAL SENSORS WHERE INDICATED

14. CONDENSER COIL HAIL GUARDS

15. DRIVE BELT FORWARD CURVE

16. MANUFACTURER STARTUP 17. ECONOMIZER: INTEGRATED DIFFERENTIAL ENTHALPY TYPE, SIZED FOR 100% SUPPLY AIR CAPACITY, CAPABLE OF SIMULTANEOUS ECONOMIZER AND COMPRESSOR OPERATION, WITH BAROMETRIC RELIEF, UNLESS SPECIFIED WITH POWERED EXHAUST

EQUIPMENT SELECTIONS BASED ON PRODUCTS INDICATED. SUBJECT TO COMPLIANCE WITH ALL PRODUCTS, EQUAL PRODUCTS BY: CARRIER, TRANE, JOHNSON CONTROLS, LENNOX, DAIKIN, RHEEM.

FAN COIL UNIT TYPE: C - CEILING CASSETTE W - WALL HUNG

3. DIFFERENTIAL PRESSURE SWITCH FOR OPERATING VERIFICATION

4. MOUNTING BRACKETS - BASE FOR ROOF MOUNTING 5. PROVIDE SPRING HANGER WITH MIN. 2" DEFLECTION.

TAG

SPF-1

SPF-2

SPF-3

SPF-2-1

NOTES (APPLIES TO ALL UNITS):

A. VARIABLE FREQUENCY DRIVE

1. VARIABLE FREQUENCY DRIVE

FANS SHALL BE PROVIDED WITH THE FOLLOWING:

100% OPEN WITHIN 75 SECONDS OF INITIATION SIGNAL.

BEING 100% OPEN WITHIN 75 SECONDS OF INITIATION SIGNAL.

USED. REFER TO THE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

2. DISCONNECT SWITCH (FURNISHED BY MECHANICAL, INSTALLED BY ELECTRICAL)

MANUF.

GREENHECK

GREENHECK

GREENHECK

GREENHECK

B. EXTERIOR FANS SHALL BE PROVIDED WITH WEATHER HOOD AND BIRDSCREEN.

F. FANS SHALL BE LISTED IN ACCORDANCE WITH UL - POWER VENTILATORS FOR SMOKE CONTROL SYSTEMS.

H. SELECTIONS ARE BASED ON A PROJECT ELEVATION OF 1097'. CFM HAS BEEN CORRECTED FOR ALTITUDE.

G. FANS SHALL BE CERTIFIED TO BEAR THE AMCA LABEL FOR AIR AND SOUND PERFORMANCE.

MODEL

AX-90-275-0625

AX-90-275-0620

AX-80-275-0630

AX-72-190-0630

E. BELT DRIVE FANS SHALL BE PROVIDED WITH 1.5 TIMES THE NUMBER OF BELTS REQUIRED FOR THE DESIGN DUTY POINT WITH A MINIMUM OF TWO BELTS.

AREA SERVED

STAIR A

STAIR B

STAIR C

STAIR C

C. PRESSURIZATION FANS: 2-POSITION, PARALLEL BLADE MOTOR OPERATED CLASS 1 SMOKE DAMPER, DESIGNED AND SET UP TO FAIL IN THE OPEN POSITION. DAMPER SHALL BE CAPABLE OF BEING

D. SMOKE EXHAUST FANS: 2-POSITION, PARALLEL BLADE MOTOR OPERATED CLASS 1 SMOKE DAMPER, DESIGNED AND SET UP TO FAIL IN THE OPEN POSITION. DAMPER SHALL BE CAPABLE OF

J. MOTORS CONTROLLED BY A VARIABLE FREQUENCY DRIVE (VFD) SHALL BE INVERTER DUTY MOTORS AND SHALL BE COMPATIBLE WITH THE PARTICULAR MANUFACTURER'S DRIVE THAT IS

EQUIPMENT SELECTIONS BASED ON PRODUCTS INDICATED. SUBJECT TO COMPLIANCE WITH ALL PRODUCTS, EQUAL PRODUCTS BY: COOK, PENN-BARRY, CARNES, TWIN CITY, AEROVENT.

K. PRESSURIZATION FANS SHALL HAVE A DUCT SMOKE DETECTOR FURNISHED BY ELECTRICAL, INSTALLED BY MECHANICAL AND WIRED BY ELECTRICAL. REFER TO DETAILS AND SPECIFICATIONS FOR SEQUENCE OF

GRILLE, REGISTERS & DIFFUSERS - COMMERCIAL

TAG	SERIES	CFM	DUTY	NECK SIZE	FACE SIZE	DAMPER	MATERIAL	TYPE	NOTES/ACCESSORIES
Α	300RS	SEE DWGS	SUPPLY	SEE DWGS	SEE DWGS	YES	STEEL	DOUBLE DEFLECTION REGISTER	1,2,
В	350RL	SEE DWGS	RETURN/EXHAUST	SEE DWGS	SEE DWGS	YES	STEEL	35° FIXED BLADE RETURN/EXHAUSTED GRILLE	1,2
С	350FL	SEE DWGS	RETURN/EXHAUST	SEE DWGS	SEE DWGS	YES	STEEL	35° FIXED BLADE RETURN/EXHAUST REGISTER	1,2
D	45F	SEE DWGS	RETURN/EXHAUST	SEE DWGS	24X24	YES	STEEL	EGG CRATE RETURN GRILLE WITH LIGHT BLOCK	1,2
E	ML-39	SEE DWGS	SUPPLY	SEE DWGS	SEE DWGS	YES	STEEL	(3) 1", 4'-0 LONG LINEAR DIFFUSER WITH FACTORY	3,5
E1	ML-38	SEE DWGS	SUPPLY	SEE DWGS	SEE DWGS	YES	STEEL	(3) 3/4", 4'-0 LONG LINEAR DIFFUSER WITH FACTORY	3,5
F	MLR-39	SEE DWGS	RETURN	SEE DWGS	SEE DWGS	YES	STEEL	(3) 1", 4'-0 LONG LINEAR RETURN DIFFUSER WITH FACTOR	3,5
F1	MLR-39	SEE DWGS	RETURN	SEE DWGS	SEE DWGS	YES	STEEL	(4) 1", 4'-0 LONG LINEAR RETURN DIFFUSER WITH FACTOR	3,5
G	TMS	SEE DWGS	SUPPLY	SEE DWGS	24X24	YES	STEEL	LOUVERED FACE DIFFUSER	1,2
Н	CT 540	SEE DWGS	RETURN	SEE DWGS	SEE DWGS	YES	STEEL	LINEAR BAR GRILLE	5
I	T3LN	SEE DWGS	SUPPLY	SEE DWGS	SEE DWGS	YES	STEEL	VAV LINEAR DIFFUSER	5

NOTES (APPLY TO ALL DEVICES UNO):

A. REFER TO ARCHITECTURAL DRAWINGS FOR TYPE OF CEILING, SUSPENSION SYSTEM AND FINISHES WHERE DEVICE WILL BE MOUNTED. FRAME AND BORDER TYPE SHALL BE COMPATIBLE WITH ADJACENT SURFACES AND FINISHES.

B. FINISH SHALL BE MANUFACTURER'S STANDARD. REFER TO ACCESSORIES/NOTES FOR CUSTOM FINISHES, IF ANY. SUBMIT COLOR CHART WITH SHOP DRAWINGS. C. WHEN A DAMPER IS CALLED FOR ABOVE AND THE DEVICE IS TO BE MOUNTED IN AN INACCESSIBLE CEILING, EITHER A FACE ADJUSTABLE OR REMOTE CABLE OPERATED

BALANCING DAMPER SHALL BE INCLUDED. D. FOR DRYWALL OR PLASTER CEILING INSTALLATION, PROVIDE PLASTER FRAME. E REFER TO PLANS AND DETAILS FOR SOFFIT GRILLE SIZES AND TYPES.

1. MOLDED INSULATION (R-6) BLANKET ON BACK PAN

3. MANUFACTURER'S STANDARD INSULATED PLENUM

4. RETURN HOOD/LIGHT SHIELD ON RA SLOTS

5. REMOTELY OPERATED BALANCING DAMPER

SELECTIONS ARE BASED ON PRODUCTS BY: TITUS. EQUAL PRODUCTS: KRUEGER, CARNES, ANEMOSTAT, TUTTLE & BAILEY, PRICE, METALAIRE, NAILOR.

CONSTRUCTION



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Drawn By: Author Checked By: Checker

Project Number: 22010076



PURSUING LEED



5 PERMIT COMMENTS 6/23/2023

ISSUE DATE 2023.05.10

PROJECT # 21128

SCHEDULES -**MECHANICAL**

SPLIT SYSTEM HEAT PUMP UNITS - DWELLING UNITS

					AIR HA	ANDLER					CAPACITY						
TAG	SERIES AIR HANDLER/HEAT PUMP UNIT	UNIT TYPE SERVED	TYPE	TOTAL CFM	OA SOURCE	OA CFM	MAX FAN HP	ESP (IN WC)	TOTAL COOLING (MBH)	SENSIBLE COOLING (MBH)	HEAT PUMP HEAT (MBH)		LIARY DUTPUT W)	SEER2	HSPF2	APPROX. WEIGHT (AH/HP) (LBS)	ACCESSORIES
									, ,	,	, ,	240V	208V				
AH-A/HP-A	FMC4018/GH5SAN418	S1,S3, A2,	Р	600	M	SEE CALC	0.5	0.60	17.1	13.0	18.1	5.0	3.8	15.2	7.5	109/166	1, 2, 3, 4, 5, 6, 7, 8, 10,11,16
AH-A1/HP-A1	AWST18/GSZH5018	S2, A3,	W	600	М	SEE CALC	0.5	0.60	17.0	12.9	17.1	5.0	3.8	14.3	7.5	101/170	1, 2, 3, 4, 5, 6, 7, 8, 14
AH-A2/HP-A2	FTQ18/RZQ18	A10(L2,L3), A11(L2,L3),AD2(L2,L3), AD3(L2,L3), AD4(L2,L3)	W	600	М	SEE CALC	0.5	0.60	17.0	12.9	20.0	5.0	3.8	15.6	8.1	101/170	1, 2, 3, 4, 5, 6, 7, 8, 13.15
AH-B/HP-B	AWST24/GSZH5024	A1,A4, A5(E),A6, A7,B7	W	800	М	SEE CALC	0.5	0.60	23.0	17.5	22.4	5.0	3.8	14.3	7.5	135/175	1, 2, 3, 4, 5, 6, 7, 8, 14,
AH-B1/HP-B1	FTQ24/RZQ24	AD1(L2,L3),A12(L2,L3),	W	800	M	SEE CALC	0.5	0.60	23.6	17.9	27.0	5.0	3.8	16.2	8.7	101/175	1, 2, 3, 4, 5, 6, 7, 8, 13,15
AH-C/HP-C	AWST30/GSZH5030	A5(W) ,	W	1,000	М	SEE CALC	0.5	0.60	28.4	21.6	28.8	5.0	3.8	14.3	7.5	123/226	1, 2, 3, 4, 5, 6, 7, 8, 14
AH-C1/HP-C	AWST30/GSZH5030	A8, AD5,B2,B10	W	1,000	М	SEE CALC	0.5	0.60	28.4	21.6	28.8	8.0	6.0	14.3	7.5	123/226	1, 2, 3, 4, 5, 6, 7, 8, 14
AH-C2/HP-C2	FTQ30/RZQ30	A8 (L4,L5), A9(L2,L3)	W	1,000	М	SEE CALC	0.5	0.60	25.8	19.6	34.0	8.0	6.0	15.6	9.1	123/226	1, 2, 3, 4, 5, 6, 7, 8, 13,15
AH-D/HP-D	AWST36/GSZH5036	B1,B3,B4	W	1,200	М	SEE CALC	0.5	0.60	34.6	26.3	33.3	8.0	6.0	14.3	7.5	123/227	1, 2, 3, 4, 5, 6, 7, 8, 14
AH-D1/HP-D1	FTQ36/RZQ36	B1(L4,L5) , B9(L2,L3)	W	1,200	М	SEE CALC	0.5	0.60	35.8	27.2	40.0	8.0	6.0	16.4	8.8	123/227	1, 2, 3, 4, 5, 6, 7, 8, 13,15
AH-E/HP-E	AMST48/GSZH5048	B5,B6	С	1,600	М	SEE CALC	0.5	0.60	45.5	34.6	46.9	10.0	7.5	15.2	7.8	162/276	1, 2, 3, 4, 5, 6, 7, 8, 14
AH-E1/HP-E1	FTQ48/RZQ48	B8(L2,L3)	С	1,600	М	SEE CALC	0.5	0.60	47.5	36.1	46.8	10.0	7.5	15.3	8.8	162/276	1, 2, 3, 4, 5, 6, 7, 8, 13,15

NOTES (APPLIES TO ALL UNITS):

A. COOLING CAPACITIES ARE BASED ON AN INDOOR EAT OF 80°F DB/67°F WB AND95°F AMBIENT AND A PROJECT ELEVATION OF 1097'.

B. 14.3 SEER2 MINIMUM UNITS WITH R-410A. MINIMUM 7.8 HSPF2. SUBMIT AHRI CERTIFIED CAPACITIES FOR ACTUAL EQUIPMENT TO BE INSTALLED.

C. PERFORMACE FOR GOODMAN SYSTEM HEATING CAPACITY BASED ON AN INDOOR EAT OF 68°F DB AND 47°F ENTERING OUTDOOR TEMP. FOR DAIKIN SYSTEM IS BASED ON 5 DEG F ENTERING OUTDOOR TEMP.

D. ESP DOES NOT INCLUDE COIL, FILTER, CASING AND ACCESSORY LOSSES.

E. REFER TO HVAC GENERAL NOTES AND DETAILS FOR ADDITIONAL INFORMATION. F. ADJUST MOTOR SPEED TAP IN FIELD TO PROVIDE TOTAL CFM LISTED FOR EACH AIR HANDLER.

G. INDOOR AND OUTDOOR UNITS SHALL BE INSTALLED PER PLANS, MANUFACTURER'S RECOMMENDATIONS AND LOCAL CODE REQUIREMENTS.

H. PRIMARY CONDENSATE SHALL BE SIZED, TRAPPED AND ROUTED PER PLANS AND DETAILS.

J. FOR LONG LINE APPLICATIONS, PROVIDE ACCESSORIES AS RECOMMENDED BY THE MANUFACTURER.

K. SEE DRAWINGS FOR AIR HANDLER ORIENTATION. L. ELECTRIC HEAT SHALL OPERATE ONLY WHEN IN THE DEFROST MODE OR WHEN THE HEATING LOAD CANNOT BE MET BY THE COMPRESSOR ALONE.

M. SEE DWELLING VENTILATION CALC FOR VENTILATION AIRFLOW.

O. IF THE OUTDOOR UNIT IS INSTALLED IN A LOCATION WHERE ICE MELT FROM THE DEFROST CYCLE MIGHT POSE A NUISANCE, PROVIDE A DRIP PAN WITH DRAIN LINE. SEE PLANS FOR ROUTING.

ACCESSORIES (THIS LIST IS NOT ALL INCLUSIVE. IN ADDITION, PROVIDE MANUFACTURER RECOMMEND ACCESSORIES FOR SAFE AND PROPER OPERATION):

1. IECC COMPLIANT 7-DAY PROGRAMMABLE THERMOSTAT; MANUAL CHANGEOVER WITH COMPRESSOR ANTI-RECYCLE PROTECTION, 2-STAGE HEATING, ADAPTIVE SETBACK RECOVERY AND TIME DELAY RELAY 2. INDOOR UNIT - SINGLE POINT POWER WIRING KIT WITH DISCONNECTING MEANS AND OVERLOAD PROTECTION (COORDINATE WITH ELECTRICAL SUBCONTRACTOR)

3. OUTDOOR UNIT - DISCONNECT FURNISHED BY MECHANICAL; INSTALLED BY ELECTRICAL (COORDINATE WITH ELECTRICAL SUBCONTRACTOR) 4. FACTORY MOUNTED THERMAL EXPANSION VALVE TO ACHIEVE 14 SEER RATING (IF REQUIRED)

5. BI-FLOW REFRIGERANT FILTER DRIER IF REQUIRED BY MANUFACTURER (LOCATE PER MANUFACTURER'S RECOMMENDATION)

6. SAF-T-SWITCH INSTALLED IN SECONDARY CONDENSATE DRAIN FOR OVERFLOW PROTECTION OR ROUTE FULL SIZE OUTLET CONNECTION THRU CEILING WITH ESCUTCHEON 7. HARD START KIT

8. CRANKCASE HEATER

9. FILTER RACK WITH 1" THICK DISPOSABLE MERV 6 FILTER

10. INDOOR PANCAKE UNIT - HINGED AND GASKETED CEILING ACCESS PANEL FOR MAINTENANCE AND REMOVAL. MFR IS CARRIER

1. INDOOR PANCAKE UNIT - FULLY INSULATED ENCLOSURI 12. PANCAKE UNIT - HEAT PUMP KIT

13. HORIZONTAL OUTDOOR UNIT. MFR IS CARRIER. PROVIDE WALL MOUNTING BRACKET AND METAL DRAIN PAN FOR OUTDOOR UNIT; DIVERSITECH OR APPROVED EQUAL 14. BASIS OF DESIGN IS GOODMAN

15. BASIS OF DESIGN IS DAIKIN

16. BASIS OF DESIGN IS CARRIER

SELECTIONS BASED ON PRODUCTS BY GOODMAN OR CARRIER. SEE NOTE FOR MORE INFO EQUAL PRODUCTS BY GOODMAN, FIRST COMPANY, SUNTHERM, ASPEN, CARRIER, BRYANT, TRANE, YORK, LENNOX, RHEEM,

W - WALL HUNG
H - HORIZONTAL

C - CLOSET

P - PANCAKE

C - CLOSET

P - PANCAKE

OA SOURCE:

N - NATURAL

M - MECHANICAL

					AIR HANDLEF	₹			(CAPACITY						
TAG 3	MODEL NUMBER AIR HANDLER/HEAT PUMP UNIT	AREA SERVED	TYPE	TOTAL CFM	OA CFM	MAX HP	ESP (IN WC)	TOTAL COOLING (MBH)	SENSIBLE COOLING (MBH)	HP HEATING (MBH)	HEAT (LIARY DUTPUT W)	SEER2	HSPF2	APPROX. WEIGHT (AH/HP) (LBS)	ACCESSORIES
								(111211)	(11121.1)		240V	208V				
AH-L-1/HP-L-1	FTQ18/RZQ18	L1 OFFICES	С	600	125	3/4	0.60	40.0	30.4	42.0	5.0	3.8	16.0	9.2	117/135	1, 2, 3, 4, 5, 6, 7, 8, 9,10
AH-L-1/HP-L-1	FTQ24/RZQ24	L1 OFFICES	С	800	170	3/4	0.60	24.0	17.1	27.0	5.0	3.8	16.2	8.7	117/135	1, 2, 3, 4, 5, 6, 7, 8, 9,10
AH-L-2/HP-L-2	FTQ48/RZQ48	LOBBY	С	1,600	200	3/4	0.60	48.0	37.3	46.8	10.0	7.5	15.3	8.8	179/219	1, 2, 3, 4, 5, 6, 7, 8, 9,10
AH-L-3/HP-L-3	FTQ48/RZQ48	LOBBY	С	1,600	SEE PLAN	3/4	0.60	48.0	37.3	46.8	10.0	7.5	15.3	8.8	179/219	1, 2, 3, 4, 5, 6, 7, 8, 9,10
AH-L-4/HP-L-4	FTQ24/RZQ24	L1.5 MAIL& MEZZ	С	800	SEE PLAN	3/4	0.60	24.0	17.1	27.0	5.0	3.8	16.2	8.7	117/135	1, 2, 3, 4, 5, 6, 7, 8, 9,10
AH-L-5/HP-L-5	FTQ24/RZQ24	L1 PAKAGE AND CORR.	С	800	170	3/4	0.60	24.0	17.1	27.0	8.0	6.0	16.2	8.7	117/135	1, 2, 3, 4, 5, 6, 7, 8, 9,10
AH-CORR/HP-CORR	FTQ36/RZQ36	CORRIDOR	С	1,200	150	3/4	0.60	34.8	27.5	40.0	10.0	7.5	16.4	8.8	117/135	1, 2, 3, 4, 5, 6, 7, 8, 9,10
AH-MAINT/HP-MAINT	FTQ30/RZQ30	L1 MAINT. RM	С	1,000	175	3/4	0.60	30.0	17.1	34.0	8.0	6.0	15.6	9.1	117/135	1, 2, 3, 4, 5, 6, 7, 8, 9,10
AH-L4-1/HP-L4-1	AMST36/GSZH5036	L4 CARDIO	С	1,200	SEE PLAN	3/4	0.60	34.8	27.5	34.4	10.0	7.5	15.2	7.8	162/238	1, 2, 3, 4, 5, 6, 7, 8, 9,
AH-L4-2/HP-L4-2	AMST48/GSZH5048	L4 FITNESS	С	1,600	300	3/4	0.60	45.5	35.9	46.0	10.0	7.5	15.2	7.8	162/238	1, 2, 3, 4, 5, 6, 7, 8, 9,11,12
AH-L4-3/HP-L4-3	AMST24/GSZH5024	L4 COWORKING	С	800	180	3/4	0.60	23.2	18.3	22.8	8.0	6.0	15.2	7.5	128/172	1, 2, 3, 4, 5, 6, 7, 8, 9,
AH-L4-4/HP-L4-4	AMST48/GSZH5048	L4 COWORKING	С	1,600	SEE PLAN	3/4	0.60	45.5	35.9	46.0	10.0	7.5	15.2	7.8	162/238	1, 2, 3, 4, 5, 6, 7, 8, 9,
AH-L4-5/HP-L4-5	AMST48/GSZH5048	FITNESS	С	1,600	300	3/4	0.60	45.5	35.9	46.0	10.0	7.5	15.2	7.8	162/238	1, 2, 3, 4, 5, 6, 7, 8, 9,11,12
AH-L4-6/HP-L4-6	AMST48/GSZH5048	YOGA	С	1,600	200	3/4	0.60	45.5	35.9	46.0	10.0	7.5	15.2	7.8	162/238	1, 2, 3, 4, 5, 6, 7, 8, 9,11,12
AH-L16-1/HP-L16-1	AMST24/GSZH5024	LOUNGE ENTRY	С	800	SEE PLAN	3/4	0.60	23.2	18.3	22.8	8.0	6.0	15.2	7.5	128/172	1, 2, 3, 4, 5, 6, 7, 8, 9,

A. COOLING CAPACITIES ARE BASED ON AN INDOOR EAT OF 80°F DB/67°F WB AND 95°F DB ENTERING OUTDOOR UNIT AND A PROJECT ELEVATION OF 1097'. B. 14.3 SEER2 MINIMUM UNITS WITH R-410A. MINIMUM 7.8 HSPF2. SUBMIT AHRI CERTIFIED CAPACITIES FOR ACTUAL EQUIPMENT TO BE INSTALLED.

C. HEAT PUMP HEATING CAPACITY BASED ON AN INDOOR EAT OF 68°F DB AND 47°F ENTERING OUTDOOR FOR GOODMAN AND 5 DEG F ENTERING OUTDOOR FOR DAIKIN UNIT D. ESP DOES NOT INCLUDE COIL, FILTER, CASING AND ACCESSORY LOSSES.

E. REFER TO HVAC GENERAL NOTES AND DETAILS FOR ADDITIONAL INFORMATION.

F. ADJUST MOTOR SPEED TAP IN FIELD TO PROVIDE TOTAL CFM LISTED FOR EACH AIR HANDLER.

G. INDOOR AND OUTDOOR UNITS SHALL BE INSTALLED PER PLANS, MANUFACTURER'S RECOMMENDATIONS AND LOCAL CODE REQUIREMENTS.

H. PRIMARY CONDENSATE SHALL BE SIZED, TRAPPED AND ROUTED PER PLANS AND DETAILS.

J. FOR LONG LINE APPLICATIONS, PROVIDE ACCESSORIES AS RECOMMENDED BY THE MANUFACTURER. K. SEE DRAWINGS FOR AIR HANDLER ORIENTATION.

L. ELECTRIC HEAT SHALL OPERATE ONLY IN DEFROST MODE OR WHEN THE HEATING LOAD CANNOT BE MET BY THE COMPRESSOR ALONE. M. IF THE OUTDOOR UNIT IS INSTALLED IN A LOCATION WHERE ICE MELT FROM THE DEFROST CYCLE MIGHT POSE A NUISANCE, PROVIDE A DRIP PAN WITH DRAIN LINE. SEE PLANS FOR ROUTING.

ACCESSORIES (THIS LIST IS NOT ALL INCLUSIVE. IN ADDITION, PROVIDE MANUFACTURER RECOMMEND ACCESSORIES FOR SAFE AND PROPER OPERATION): 1. 7-DAY PROGRAMMABLE THERMOSTAT; AUTOMATIC CHANGEOVER WITH COMPRESSOR ANTI-RECYCLE PROTECTION AND TIME DELAY RELAY (Honeywell RTH7600 OR APPROVED EQUAL)

2. INDOOR UNIT - SINGLE POINT POWER WIRING KIT WITH DISCONNECTING MEANS AND OVERLOAD PROTECTION (COORDINATE WITH ELECTRICAL SUBCONTRACTOR) 3. OUTDOOR UNIT - DISCONNECT FURNISHED BY MECHANICAL; INSTALLED BY ELECTRICAL (COORDINATE WITH ELECTRICAL SUBCONTRACTOR)

4. FACTORY MOUNTED THERMAL EXPANSION VALVE TO ACHIEVE 14 SEER RATING (IF REQUIRED)

5. BI-FLOW REFRIGERANT FILTER DRIER IF REQUIRED BY MANUFACTURER (LOCATE PER MANUFACTURER'S RECOMMENDATION) 6. SAF-T-SWITCH INSTALLED IN SECONDARY CONDENSATE DRAIN FOR OVERFLOW PROTECTION OR ROUTE FULL SIZE OUTLET CONNECTION THRU CEILING WITH ESCUTCHEON

7. HARD START KIT 8. CRANKCASE HEATER

9. FILTER RACK WITH 1" THICK DISPOSABLE MERV 6 FILTER

10 . HORIZONTAL OUTDOOR UNIT. MFR IS CARRIER. PROVIDE WALL MOUNTING BRACKET AND METAL DRAIN PAN FOR OUTDOOR UNIT; DIVERSITECH OR APPROVED EQUAL

11. WALL MOUNTED CO2 SENSO...

12. BI-POLAR IONIZATION UNIT SELECTIONS BASED ON PRODUCTS BY CARRIER AND GOODMAN

EQUAL PRODUCTS BY GOODMAN, FIRST COMPANY, SUNTHERM, ASPEN, CARRIER, BRYANT, TRANE, YORK, LENNOX, RHEEM, AIRMARK.

GREASE REMONREFER TO DETA FOR FANS THAT WEIGHTS INCLU FANS THAT ARE CONTRACTOR A REFER TO AIR H FANS SHALL BE MOTORS CONTE JSED. REFER TO CCESSORIES: GRAVITY BACK MOTORIZED BA	DVAL FANS SHALL BE LISTAILS FOR ADDITIONAL CAT ARE PART OF A SMOKUDE ACCESSORIES, CUITE SCHEDULED TO RUN CATE INTERCONNECTED WITH AND PROVIDE RELAYS/CHANDLING UNIT SCHEDITE CERTIFIED AND BEAR TROLLED BY A VARIABLE TO THE SPECIFICATIONS FAN TYPES: CC - CEILING CENTRE CAB - IN LINE CABIN RCD - ROOF CENTRE RCU - ROOF CENTRE WC - WALL CENTRIF	TED FOR GREASE REMO' PITIONS, ACCESSORIES, E MANAGEMENT SYSTEM RBS, MOTORS, ETC. CONTINUOUSLY SHALL HA TH LIGHTING CONTROLS CONTROLS AS REQUIRED JLE FOR OA CFM AND BA THE HVI-2100 OR AMCA LA FREQUENCY DRIVE (VFI FOR ADDITIONAL REQUI	VAL (UL 762) AI MOUNTING AR M, REFER TO TI AVE IEC 60034- 6 (E.G. LIGHT SV ALANCE ACCOR ABEL FOR AIR D) SHALL BE IN	ND ELECTRICAL (UL 705) RRANGEMENT, ETC. HE SMOKE CONTROL FAN SC -1 CONTINUOUS DUTY RATED WITCH) MAY NOT BE THE SAN RDINGLY. AND SOUND PERFORMANCE	CHEDULE D MOTORS. ME VOLTAGE D SHALL BE CO	OMPATIBLE \	WITH THE PAI	RTICULAR N		JRER'S DRIVE	ETHAT IS	CS CS CS CS CA CA CB CB CCN CCN CCJ CJ CB CB CB CB CCB CCB CCD CCJ CCJ CCJ CCJ CCJ CCJ CCJ CCJ CCJ	NO NO NO NO YES YES NO	1, 3, 13, 1, 3, 13, 1, 3, 13, 2,3,9, 20, 25, 31,37 2, 3, 11,20, 32,36 2, 3, 11,20, 27, 32, 2, 3, 5, 7, 9, 12, 23 2,3,13 2,3,9,14 2,3,9,11,14 2,3,9,14 2,3,9,14 2,3,9,14 2,3,9,14 2,3,9,14 2,3,9,14 2,3,9,14 2,3,9,14 1,3,7,11,18,20,27,28,32 1,3,7,11,18,20,27,28,32 1,3,9,11,14 1,3,9,11,14 1,3,9,11,14 1,3,7,11,18,20,27,28,32
EF-D EF-GEN EF-TRFM EF-TR-1 EF-FP EF-PW EF-POOL EF-TR-S EF-LD EF-LD-1 EF-FAR EF-BIKE EF-BIKE EF-BIKE EF-BOIL GEF-A GEF-B GEF-C GEF-D GEF-E TES: SELECTIONS AF GREASE REMON REFER TO DETA FOR FANS THAT WEIGHTS INCLU FANS THAT ARE CONTRACTOR AF REFER TO AIR H FANS SHALL BE MOTORS CONTR JSED. REFER TO	BROAN GREENHECK GREE	LP50100DC SQ-160-VG USF-49 USF-22-B6 SQ-16-VG SP-A290 SQ-95-VG USF-18-B7 SQ-130 SQ-160-VG CSP-A390 CSP-A390 CSP-B200 CSP-A390-VG CSP-A390-VG CSP-A390-VG SQ-130 AER-20-VG AER-42 SQ-130 AER-42 SQ-100 AER-24-03 CT ELEVATION OF1091'. CC TED FOR GREASE REMO' SPTIONS, ACCESSORIES, EMANAGEMENT SYSTEM RBS, MOTORS, ETC. CONTINUOUSLY SHALL HATTH LIGHTING CONTROLS CONTROLS AS REQUIRED JULE FOR OA CFM AND BATTHE HVI-210N OY RANCE LIFE THE HVI-210N OY RANCE LIFE FOR ADDITIONAL REQUIRED JILE FOR OA CFM AND BATTHE HVI-210N OY RANCE LIFE FUGAL DOWNBLAST FUGAL ET FUGAL ET FUGAL FUGAL THUGAL T	ILC UCF UCF ILC UCF ILC UCF ILC ILC UCF ILC	GENERATOR RM TRANSFORMER RM TRASH RMS FIRE PUMP ROOM DOGWASH POOL EQUIP. RM TRASH RMS LOADING DOCK LOADING DOCK LOADING DOCK FARS BIKE STORAGE BULK STORAGE TENANT STORAGE IDF ROOM BOILER RM GARAGE GARAGE GARAGE GARAGE GARAGE GARAGE TENANT STORAGE	100 3600 23600 4600 4500 150 515 3700 1600 2360 250 375 200 450 200 735 2700 20,000 13,500 1,000 8,000 CHEDULE D MOTORS. ME VOLTAGE A CONTRIBUTE TYPE: D - DIRECT	0.3 0.6 0.75 1.2 0.5 0.5 0.4 1.2 0.5 0.5 0.8 0.8 0.8 0.6 0.6 0.6 0.8 0.8	26.9W 2 7 1/2 1 1/2 2 81W 1/5 HP 1 1/2 HP 3/4 3/4 69 W 179 W 60 W 258 W 1/4 1/4 1 1/2 5 HTING CIRCUIT	N/A 1398 360 1235 1500 910 1600 1920 1725 1725 1655 1025 1726 1726 1750 1750 1750 1750 T. COORDIN	D D D D D VFD D D D VFD D VFD D VFD D VFD VF	1.5 16.7 13.3 70DBA 19.5 2.0 7.7 67DBA 10.6 8.4 NA NA NA NA NA NA NA NA NA N	10 200 2200 355 190 30 80 270 150 110 45 25 58 59 59 59 180 700 402 100 253	CA CB CB CN CS CN CN CJ CB CB CB CB CB CB CB CCB CCB CCB CCB CCCB CCCC CCCC CCCC CCCC CCCC CCCC CCCC	NO YES YES NO	1, 3, 13, 2,3,9, 20, 25, 31,37 2, 3, 11,20, 32,36 2, 3, 11,20, 27, 32, 2, 3, 5, 7, 9, 12, 23 2,3,13 2,3,9,14 2,3,9,14,14 2,3,9,14 2,3,9,14 2,3,9,14 2,3,9,14 2,3,9,14 2,3,9,14 2,3,9,14 2,3,9,14 1,3,7,9,18,20,27,28,32 1,3,7,11,18,20,27,28,32 1,3,9,11,14 1,3,9,11,14
EF-GEN EF-TRFM EF-TR-1 EF-FP EF-PW EF-POOL EF-TR-S EF-LD EF-LD-1 EF-FAR EF-BIKE EF-BIKE EF-BOIL GEF-A GEF-B GEF-C GEF-D GEF-E TES: SELECTIONS AFGREASE REMOVE AFFER TO DETAFOR FANS THAT ARE EFER TO AIR HETANS THAT ARE EFER TO AIR HETANS SHALL BE MOTORS CONTRUCTOR AIR HETANS CONTRACTOR AIR H	GREENHECK GREENH	SQ-160-VG USF-49 USF-22-B6 SQ-16-VG SP-A290 SQ-95-VG USF-18-B7 SQ-130 SQ-160-VG CSP-A390 CSP B200 CSP-A390-VG CSP-A390-VG CSP-A390-VG SQ-130 AER-20-VG AER-42 SQ-130 AER-42 SQ-100 AER-24-03 CT ELEVATION OF1091'. CO TED FOR GREASE REMO' PTIONS, ACCESSORIES, EMANAGEMENT SYSTEM RBS, MOTORS, ETC. CONTINUOUSLY SHALL HATTH LIGHTING CONTROLS CONTROLS AS REQUIRED ULE FOR OA CFM AND BATTHE HVI-2100 OR AMCA LATTHE HUGAL ET FUGAL DOWNBLAST FUGAL UPBLAST UGAL	ILC UCF UCF ILC CC ILC UCF ILC	GENERATOR RM TRANSFORMER RM TRASH RMS FIRE PUMP ROOM DOGWASH POOL EQUIP. RM TRASH RMS LOADING DOCK LOADING DOCK LOADING DOCK FARS BIKE STORAGE BULK STORAGE TENANT STORAGE IDF ROOM BOILER RM GARAGE GARAGE GARAGE GARAGE GARAGE GARAGE TENANT STORAGE	3600 23600 4600 4500 150 515 3700 1600 2360 250 375 200 450 200 735 2700 20,000 13,500 1,000 8,000 CHEDULE D MOTORS. ME VOLTAGE A CONTRIBUTE TYPE: D - DIRECT	0.6 0.75 1.2 0.5 0.5 0.4 1.2 0.5 0.5 0.8 0.8 0.8 0.6 0.6 0.6 0.6 0.8 0.8 0.8 0.8 0.8	2 7 1/2 1 1/2 2 81W 1/5 HP 1 1/2 HP 3/4 3/4 69 W 179 W 60 W 258 W 1/4 1/4 1 1/2 5 HTING CIRCUIT	1398 360 1235 1500 910 1600 1920 1725 1725 1655 1025 1726 1726 1726 1750 1750 1750 1750 1750 1750 T. COORDIN	D D D D VFD D D D VFD D VFD D VFD D VFD VF	16.7 13.3 70DBA 19.5 2.0 7.7 67DBA 10.6 8.4 NA NA NA NA NA NA SA NA	200 2200 355 190 30 80 270 150 110 45 25 58 59 59 59 180 700 402 100 253	CB CB CN CS CN CN CJ CJ CB CB CB CB CCB CCB CCB CCB CCB C	YES YES NO YES NO	2,3,9, 20, 25, 31,37 2, 3, 11,20, 32,36 2, 3, 11,20, 27, 32, 2, 3, 5, 7, 9, 12, 23 2,3,13 2,3,9,14 2,3,9,11,14 2,3,9,14 2,3,9,14 2,3,9,14 2,3,9,14 2,3,9,14 2,3,9,14 2,3,9,14 2,3,9,14 1,3,9,14 2,3,9,14 1,3,9,11,14 1,3,9,11,14 1,3,9,11,14
EF-TRFM EF-TR-1 EF-FP EF-PW EF-POOL EF-TR-S EF-LD EF-LD-1 EF-FAR EF-BULK EF-BULK EF-BULK EF-BOIL GEF-A GEF-B GEF-C GEF-D GEF-E TES: SELECTIONS AFG GREASE REMON REFER TO DETA FOR FANS THAT WEIGHTS INCLU- FANS THAT ARE CONTRACTOR AFA REFER TO AIR HEANS SHALL BE MOTORS CONTE JSED. REFER TO CCESSORIES: GRAVITY BACK MOTORIZED BACK MOTO	GREENHECK GREENH	USF-49 USF-22-B6 SQ-16-VG SP-A290 SQ-95-VG USF-18-B7 SQ-130 SQ-160-VG CSP-A390 CSP B200 CSP-A390VG CSP-A390VG CSP-A390VG SQ-130 AER-20-VG AER-42 SQ-24-VG SQ-100 AER-24-03 CT ELEVATION OF1091'. CO TED FOR GREASE REMO' PTIONS, ACCESSORIES, EMANAGEMENT SYSTEM RBS, MOTORS, ETC. CONTINUOUSLY SHALL HATTH LIGHTING CONTROLS CONTROLS AS REQUIRED JULE FOR OA CFM AND BATTHE HVI-2100 OR AMCA LATTHE	UCF UCF ILC CC ILC UCF ILC	TRANSFORMER RM TRASH RMS FIRE PUMP ROOM DOGWASH POOL EQUIP. RM TRASH RMS LOADING DOCK LOADING DOCK LOADING DOCK FARS BIKE STORAGE BULK STORAGE TENANT STORAGE IDF ROOM BOILER RM GARAGE GARAGE GARAGE GARAGE GARAGE GARAGE TENANT STORAGE TOMAGE GARAGE GARAGE GARAGE GARAGE GARAGE GARAGE TOMAGE TOMAGE	23600 4600 4500 150 515 3700 1600 2360 250 375 200 450 200 735 2700 20,000 13,500 1,000 8,000 CHEDULE D MOTORS. ME VOLTAGE A CONTRIBUTE TYPE: D - DIRECT	0.75 1.2 0.5 0.5 0.4 1.2 0.5 0.5 0.5 0.8 0.8 0.8 0.6 0.6 0.6 0.6 0.8 0.8 0.8 0.8 0.8	7 1/2 1 1/2 2 81W 1/5 HP 1 1/2 HP 3/4 3/4 69 W 179 W 60 W 258 W 1/4 1/4 1 1 7 1/2 10 1/2 5	360 1235 1500 910 1600 1920 1725 1725 1655 1025 1726 1726 1726 1750 1750 1750 1750 1750 T. COORDIN	D D D D VFD D D D VFD D VFD D VFD D VFD D VFD VF	13.3 70DBA 19.5 2.0 7.7 67DBA 10.6 8.4 NA NA NA NA NA NA SA	2200 355 190 30 80 270 150 110 45 25 58 59 59 59 180 700 402 100 253	CB CN CB CS CN CN CJ CJ CB CB CB CB CB CCB CCB CCB CCB CC	YES NO YES NO	2, 3, 11,20, 32,36 2, 3, 11,20, 27, 32, 2, 3, 5, 7, 9, 12, 23 2,3,13 2,3,9,14 2, 3, 11,20, 27, 32, 2,3,9,11,14 2,3,9,14 2,3,9,14 2,3,9,14 2,3,9,14 2,3,9,14 2,3,9,14 2,3,9,14 1,3,9,11,14 1,3,7,9,18,20,27,28,32 1,3,7,11,18,20,27,28,32 1,3,9,11,14 1,3,9,11,14
EF-TRFM EF-TR-1 EF-FP EF-PW EF-POOL EF-TR-S EF-LD EF-LD-1 EF-FAR EF-BIKE EF-BULK EF-BOIL GEF-A GEF-B GEF-C GEF-D GEF-E ES: ELECTIONS AFI EREASE REMON EFER TO DETA OR FANS THAT VEIGHTS INCLU ANS THAT ARE ENST THAT ARE ENST THAT ARE ENST THAT ARE ENST THAT ARE ENTO DETA ONTRACTOR ARE ENTO AIR HE ANS SHALL BE IOTORS CONTE	GREENHECK GREENH	USF-49 USF-22-B6 SQ-16-VG SP-A290 SQ-95-VG USF-18-B7 SQ-130 SQ-160-VG CSP-A390 CSP B200 CSP-A390VG CSP-A390VG CSP-A390VG SQ-130 AER-20-VG AER-42 SQ-24-VG SQ-100 AER-24-03 CT ELEVATION OF1091'. CO TED FOR GREASE REMO' PTIONS, ACCESSORIES, EMANAGEMENT SYSTEM RBS, MOTORS, ETC. CONTINUOUSLY SHALL HATTH LIGHTING CONTROLS CONTROLS AS REQUIRED JULE FOR OA CFM AND BATTHE HVI-2100 OR AMCA LATTHE	UCF UCF ILC CC ILC UCF ILC	TRANSFORMER RM TRASH RMS FIRE PUMP ROOM DOGWASH POOL EQUIP. RM TRASH RMS LOADING DOCK LOADING DOCK LOADING DOCK FARS BIKE STORAGE BULK STORAGE TENANT STORAGE IDF ROOM BOILER RM GARAGE GARAGE GARAGE GARAGE GARAGE GARAGE TENANT STORAGE TOMAGE GARAGE GARAGE GARAGE GARAGE GARAGE GARAGE TOMAGE TOMAGE	23600 4600 4500 150 515 3700 1600 2360 250 375 200 450 200 735 2700 20,000 13,500 1,000 8,000 CHEDULE D MOTORS. ME VOLTAGE A CONTRIBUTE TYPE: D - DIRECT	0.75 1.2 0.5 0.5 0.4 1.2 0.5 0.5 0.5 0.8 0.8 0.8 0.6 0.6 0.6 0.6 0.8 0.8 0.8 0.8 0.8	7 1/2 1 1/2 2 81W 1/5 HP 1 1/2 HP 3/4 3/4 69 W 179 W 60 W 258 W 1/4 1/4 1 1 7 1/2 10 1/2 5	360 1235 1500 910 1600 1920 1725 1725 1655 1025 1726 1726 1726 1750 1750 1750 1750 1750 T. COORDIN	D D D D VFD D D D VFD D VFD D VFD D VFD D VFD VF	13.3 70DBA 19.5 2.0 7.7 67DBA 10.6 8.4 NA NA NA NA NA NA SA	2200 355 190 30 80 270 150 110 45 25 58 59 59 59 180 700 402 100 253	CB CN CB CS CN CN CJ CJ CB CB CB CB CB CCB CCB CCB CCB CC	YES NO YES NO	2, 3, 11,20, 32,36 2, 3, 11,20, 27, 32, 2, 3, 5, 7, 9, 12, 23 2,3,13 2,3,9,14 2, 3, 11,20, 27, 32, 2,3,9,11,14 2,3,9,14 2,3,9,14 2,3,9,14 2,3,9,14 2,3,9,14 2,3,9,14 2,3,9,14 1,3,9,11,14 1,3,7,9,18,20,27,28,32 1,3,7,11,18,20,27,28,32 1,3,9,11,14 1,3,9,11,14
EF-TR-1 EF-FP EF-PW EF-POOL EF-TR-S EF-LD EF-LD-1 EF-BIKE EF-BIKE EF-BULK EF-BOIL GEF-A GEF-B GEF-C GEF-D GEF-E ES: ELECTIONS AF REASE REMON EFER TO DETA OR FANS THAT ARE ANS THAT ARE ONTRACTOR A EFER TO AIR H ANS SHALL BE OTORS CONTE SED. REFER TO CESSORIES: GRAVITY BACK MOTORIZED BA	GREENHECK GREENH	USF-22-B6 SQ-16-VG SP-A290 SQ-95-VG USF-18-B7 SQ-130 SQ-160-VG CSP-A390 CSP B200 CSP-A390VG CSP-A390VG CSP-A190 SQ-130 AER-20-VG AER-42 SQ-24-VG SQ-100 AER-24-03 CT ELEVATION OF1091'. C TED FOR GREASE REMO' PTIONS, ACCESSORIES, E MANAGEMENT SYSTEM RBS, MOTORS, ETC. CONTINUOUSLY SHALL HAVE THE LIGHTING CONTROLS AS REQUIRED JULE FOR OA CFM AND BAY THE HVI-2100 OR AMCA LATE ON TROLS AS REQUIRED JULE FOR OA CFM AND BAY THE HVI-2100 OR AMCA LATE ON TROLS AS REQUIRED JULE FOR OA CFM AND BAY THE HVI-2100 OR AMCA LATE ON TROLS AS REQUIRED JULE FOR OA CFM AND BAY THE HVI-2100 OR AMCA LATE ON TROLS AS REQUIRED JULE FOR OA CFM AND BAY THE HVI-2100 OR AMCA LATE ON TROLS AS REQUIRED JULE FOR ADDITIONAL REQUIRED JULE FOR	UCF ILC CC ILC UCF ILC	TRASH RMS FIRE PUMP ROOM DOGWASH POOL EQUIP. RM TRASH RMS LOADING DOCK LOADING DOCK LOADING DOCK FARS BIKE STORAGE BULK STORAGE TENANT STORAGE IDF ROOM BOILER RM GARAGE GARAGE GARAGE GARAGE GARAGE GARAGE TENANT STORAGE TO GARAGE GARAGE GARAGE GARAGE GARAGE TO STORAGE TO STOR	4600 4500 150 515 3700 1600 2360 250 375 200 450 200 735 2700 20,000 13,500 1,000 8,000 CHEDULE D MOTORS. ME VOLTAGE A CO SHALL BE CO DRIVE TYPE: D - DIRECT	1.2 0.5 0.5 0.4 1.2 0.5 0.5 0.5 0.5 0.8 0.8 0.8 0.6 0.6 0.6 0.6 0.8 0.8 0.8 0.8	1 1/2 2 81W 1/5 HP 1 1/2 HP 3/4 3/4 69 W 179 W 60 W 258 W 1/4 1/4 1 1 7 1/2 10 1/2 5	1235 1500 910 1600 1920 1725 1725 1655 1025 1726 1726 1726 1750 1750 1750 1750 1750 T. COORDIN	D D/ECM D D D VFD VFD D D D D VFD VFD D VFD VFD	70DBA 19.5 2.0 7.7 67DBA 10.6 8.4 NA NA NA NA NA NA SA	355 190 30 80 270 150 110 45 25 58 59 59 59 180 700 402 100 253	CN CB CS CN CN CJ CJ CB CB CB CB CB CCB CCB CCC CON CJ CJ CJ CON CJ	NO YES NO	2, 3, 11,20, 27, 32, 2, 3, 5, 7, 9, 12, 23 2,3,13 2,3,9,14 2, 3, 11,20, 27, 32, 2,3,9,11,14 2,3,9,14 2,3,9,14 2,3,9,14 2,3,9,14 2,3,9,14 2,3,9,14 2,3,9,14 1,3,7,11,18,20,27,28,32 1,3,7,11,18,20,27,28,32 1,3,9,11,14 1,3,9,11,14
EF-FP EF-PW EF-POOL EF-TR-S EF-LD EF-LD EF-LD-1 EF-FAR EF-BIKE EF-BULK EF-BOIL GEF-A GEF-B GEF-C GEF-D GEF-E ES: ELECTIONS AFREASE REMOVE EFER TO DETA OR FANS THAT EIGHTS INCLU- ANS THAT ARE ANS THAT ARE ONTRACTOR AFERE TO AIR HEADS THAT ARE ONTRACTOR AFERE TO AIR HEA	GREENHECK GREENH	SQ-16-VG SP-A290 SQ-95-VG USF-18-B7 SQ-130 SQ-160-VG CSP-A390 CSP B200 CSP-A390VG CSP-A390VG CSP-780 SP-A190 SQ-130 AER-20-VG AER-42 SQ-24-VG SQ-100 AER-24-03 CT ELEVATION OF1091'. C TED FOR GREASE REMO' PTIONS, ACCESSORIES, E MANAGEMENT SYSTEM RBS, MOTORS, ETC. CONTINUOUSLY SHALL HATH LIGHTING CONTROLS AS REQUIRED JULE FOR OA CFM AND BATH CONTROLS AS REQUIRED JULE FOR OA CFM AND BATH CHORD OF THE CONTROLS AS RECUIRED JULE FOR OA CFM AND BATH CHORD OF THE CONTROLS AS RECUIRED JULE FOR OA CFM AND BATH CHORD OF THE CONTROLS AS RECUIRED JULE FOR OA CFM AND BATH CHORD OA	ILC CC ILC UCF ILC	FIRE PUMP ROOM DOGWASH POOL EQUIP. RM TRASH RMS LOADING DOCK LOADING DOCK FARS BIKE STORAGE BULK STORAGE TENANT STORAGE IDF ROOM BOILER RM GARAGE GARAGE GARAGE GARAGE GARAGE GARAGE CORRECTED FOR ALTITUDE. ND ELECTRICAL (UL 705) RRANGEMENT, ETC. HE SMOKE CONTROL FAN SCI	4500 150 515 3700 1600 2360 250 375 200 450 200 735 2700 20,000 13,500 1,000 8,000 CHEDULE D MOTORS. ME VOLTAGE A CONTRIBUTION OF THE CONTRIBUTI	0.5 0.5 0.4 1.2 0.5 0.5 0.5 0.5 0.8 0.8 0.8 0.6 0.6 0.6 0.6 0.8 0.8 0.8 0.8	2 81W 1/5 HP 1 1/2 HP 3/4 3/4 69 W 179 W 60 W 258 W 1/4 1/4 1 1 7 1/2 10 1/2 5	1500 910 1600 1920 1725 1725 1655 1025 1726 1726 1726 1750 1750 1750 1750 T. COORDIN	D/ECM D D D VFD VFD D D D D VFD VFD VFD VFD V	19.5 2.0 7.7 67DBA 10.6 8.4 NA NA NA NA NA NA SA NA	190 30 80 270 150 110 45 25 58 59 59 59 180 700 402 100 253	CB CS CN CN CJ CJ CB CB CB CB CCB CCB CCC CO CO CJ	YES NO	2, 3, 5, 7, 9, 12, 23 2,3,13 2,3,9,14 2, 3, 11,20, 27, 32, 2,3,9,11,14 2,3,9,14 2,3,9,14 2,3,9,14 2,3,9,14 2,3,9,14 2,3,9,14 2,3,9,14 1,3,7,9,18,20,27,28,32 1,3,7,11,18,20,27,28,32 1,3,9,11,14 1,3,9,11,14
EF-PW EF-POOL EF-TR-S EF-LD EF-LD-1 EF-FAR EF-BIKE EF-BULK EF-BOIL GEF-A GEF-B GEF-C GEF-D GEF-E ES: ELECTIONS AFREASE REMOVEFER TO DETA OR FANS THAT ARE ANS THAT ARE ONTRACTOR AFERE TO AIR HANS THAT ARE ONTRACTOR AFERE TO AIR HANS SHALL BE OTORS CONTESSED. REFER TO CESSORIES: GRAVITY BACK MOTORIZED BA	GREENHECK GREENH	SP-A290 SQ-95-VG USF-18-B7 SQ-130 SQ-160-VG CSP-A390 CSP B200 CSP-A390VG CSP-A390VG CSP-780 SP-A190 SQ-130 AER-20-VG AER-42 SQ-24-VG SQ-100 AER-24-03 CT ELEVATION OF1091'. C TED FOR GREASE REMO' PTIONS, ACCESSORIES, E MANAGEMENT SYSTEM RBS, MOTORS, ETC. CONTINUOUSLY SHALL HATH LIGHTING CONTROLS AS REQUIRED JULE FOR OA CFM AND BATHE HAVI-2100 OR AMCA LATHE HAVI-2100 O	CC ILC UCF ILC ILC ILC ILC ILC CAB CAB CAB CAB CC ILC ILC ILC WP WP ILC ILC ILC UP CFM HAS BEEN VAL (UL 762) AI MOUNTING AR M, REFER TO TI AVE IEC 60034- 5 (E.G. LIGHT S) CALANCE ACCOR ABEL FOR AIR D) SHALL BE IN	DOGWASH POOL EQUIP. RM TRASH RMS LOADING DOCK LOADING DOCK FARS BIKE STORAGE BULK STORAGE TENANT STORAGE IDF ROOM BOILER RM GARAGE GARAGE GARAGE GARAGE GARAGE GARAGE TENANT STORAGE TENANT STORAGE GARAGE GARAGE GARAGE GARAGE GARAGE GARAGE GARAGE GARAGE CORRECTED FOR ALTITUDE. ND ELECTRICAL (UL 705) RRANGEMENT, ETC. HE SMOKE CONTROL FAN SCHOOL STORE CONTROL FAN SCHOOL S	150 515 3700 1600 2360 250 375 200 450 200 735 2700 20,000 13,500 1,000 8,000 CHEDULE D MOTORS. ME VOLTAGE A COLUME TYPE: D - DIRECT	0.5 0.4 1.2 0.5 0.5 0.5 0.5 0.8 0.8 0.8 0.6 0.6 0.6 0.6 0.8 0.8 0.8 0.8	81W 1/5 HP 1 1/2 HP 3/4 3/4 69 W 179 W 60 W 258 W 1/4 1/4 1 7 1/2 10 1/2 5	910 1600 1920 1725 1725 1655 1025 1726 1726 1726 1750 1750 1750 1750 T. COORDIN	D D VFD VFD D D D VFD VFD VFD VFD VFD VF	2.0 7.7 67DBA 10.6 8.4 NA NA NA NA NA SA NA	30 80 270 150 110 45 25 58 59 59 59 180 700 402 100 253	CS CN CN CJ CJ CB CB CB CB CCB CCB CCD CON CJ CJ CJ CJ CON CJ CJ	NO N	2,3,13 2,3,9,14 2, 3, 11,20, 27, 32, 2,3,9,11,14 2,3,9,14 2,3,9,14 2,3,9,14 2,3,9,14 2,3,9,14 2,3,9,14 2,3,9,14 1,3,7,9,18,20,27,28,32 1,3,7,11,18,20,27,28,32 1,3,9,11,14 1,3,9,11,14
EF-POOL EF-TR-S EF-LD EF-LD-1 EF-FAR EF-BIKE EF-BULK EF-BOIL GEF-A GEF-B GEF-C GEF-D GEF-E ELECTIONS AF REASE REMOVE EFER TO DETA OR FANS THAT EIGHTS INCLUL ANS THAT ARE ANS THAT ARE ONTRACTOR AF EFER TO AIR H NS SHALL BE OTORS CONTE SED. REFER TO SED. REFER TO	GREENHECK GREENH	SQ-95-VG USF-18-B7 SQ-130 SQ-160-VG CSP-A390 CSP B200 CSP-A390VG CSP-780 SP-A190 SQ-130 AER-20-VG AER-42 SQ-24-VG SQ-100 AER-24-03 CT ELEVATION OF1091'. C TED FOR GREASE REMO' PTIONS, ACCESSORIES, E MANAGEMENT SYSTEM TO PTIONS, ACCESSORIES, E MANAGEMENT SYSTEM TO PTIONS, ACCESSORIES, E MANAGEMENT SYSTEM TO PTIONS ACCESSORIES, E MANAGEMENT SYSTEM TO P	ILC UCF ILC ILC ILC ILC CAB CAB CAB CC ILC ILC WP WP ILC ILC WP SFM HAS BEEN VAL (UL 762) AI MOUNTING AR M, REFER TO TI AVE IEC 60034- 5 (E.G. LIGHT SV ALANCE ACCOR ABEL FOR AIR D) SHALL BE IN	POOL EQUIP. RM TRASH RMS LOADING DOCK LOADING DOCK FARS BIKE STORAGE BULK STORAGE TENANT STORAGE IDF ROOM BOILER RM GARAGE GARAGE GARAGE GARAGE GARAGE CORRECTED FOR ALTITUDE. ND ELECTRICAL (UL 705) RRANGEMENT, ETC. HE SMOKE CONTROL FAN SCO 1 CONTINUOUS DUTY RATED WITCH) MAY NOT BE THE SAN RDINGLY. AND SOUND PERFORMANCE	515 3700 1600 2360 250 375 200 450 200 735 2700 20,000 13,500 1,000 8,000 CHEDULE D MOTORS. ME VOLTAGE A D SHALL BE CO	0.4 1.2 0.5 0.5 0.5 0.8 0.8 0.8 0.6 0.6 0.6 0.8 0.8 0.8 0.8	1/5 HP 1 1/2 HP 3/4 3/4 69 W 179 W 60 W 258 W 1/4 1/4 1 7 1/2 10 1/2 5	1600 1920 1725 1725 1655 1025 1726 1726 1726 1750 1750 1750 1750 T. COORDIN	D D VFD VFD D D D VFD VFD VFD VFD VFD VF	7.7 67DBA 10.6 8.4 NA NA NA NA NA SA NA	80 270 150 110 45 25 58 59 59 59 180 700 402 100 253	CN CN CJ CJ CB CB CB CB CCB CCD CON CJ CJ CJ CON CJ	NO N	2,3,9,14 2,3,9,11,14 2,3,9,11,14 2,3,9,14 2,3,9,14 2,3,9,14 2,3,9,14 2,3,9,14 2,3,9,14 2,3,9,14 1,3,7,9,18,20,27,28,3; 1,3,7,11,18,20,27,28,3; 1,3,9,11,14 1,3,9,11,14
EF-TR-S EF-LD EF-LD-1 EF-FAR EF-BIKE EF-BULK EF-BOIL GEF-A GEF-B GEF-C GEF-D GEF-E ELECTIONS AF REASE REMOVE FER TO DETA OR FANS THAT EIGHTS INCLU- LINS THAT ARE ONTRACTOR AF EFER TO AIR H NS SHALL BE OTORS CONTE SED. REFER TO SED. REFER TO	GREENHECK GREENH	USF-18-B7 SQ-130 SQ-160-VG CSP-A390 CSP B200 CSP-A390VG CSP-780 SP-A190 SQ-130 AER-20-VG AER-42 SQ-24-VG SQ-100 AER-24-03 CT ELEVATION OF1091'. C TED FOR GREASE REMO' PTIONS, ACCESSORIES, E MANAGEMENT SYSTEM RBS, MOTORS, ETC. CONTINUOUSLY SHALL HATTH LIGHTING CONTROLS CONTROLS AS REQUIRED JULE FOR OA CFM AND BATTHE HVI-2100 OR AMCA LATTHE HVI-2100 OR AMCA LATTHE FUGAL DOWNBLAST FUGAL DOWNBLAST FUGAL DOWNBLAST FUGAL UPBLAST UGAL	UCF ILC ILC ILC CAB CAB CAB CAB CC ILC ILC ILC ILC WP WP ILC ILC ILC WP SFM HAS BEEN VAL (UL 762) AI MOUNTING AR M, REFER TO TI AVE IEC 60034- 6 (E.G. LIGHT SV C) ALANCE ACCOR ABEL FOR AIR D) SHALL BE IN	TRASH RMS LOADING DOCK LOADING DOCK FARS BIKE STORAGE BULK STORAGE TENANT STORAGE IDF ROOM BOILER RM GARAGE GARAGE GARAGE GARAGE GARAGE GARAGE TENANT STORAGE GARAGE GARAGE GARAGE GARAGE GARAGE GARAGE GARAGE GARAGE CORRECTED FOR ALTITUDE. ND ELECTRICAL (UL 705) RRANGEMENT, ETC. HE SMOKE CONTROL FAN SCONTROL FAN SCON	3700 1600 2360 250 375 200 450 200 735 2700 20,000 13,500 1,000 8,000 CHEDULE DISTRIBUTION OF SERVICE TYPE: D - DIRECT	1.2 0.5 0.5 0.5 0.8 0.8 0.8 0.6 0.6 0.6 0.8 0.8 0.8 0.8	1 1/2 HP 3/4 3/4 69 W 179 W 60 W 258 W 1/4 1/4 1 7 1/2 10 1/2 5	1920 1725 1725 1655 1025 1726 1726 1726 1750 1750 1750 1750 1750 T. COORDIN	D VFD VFD D D D VFD VFD VFD VFD VFD VFD	67DBA 10.6 8.4 NA NA NA NA NA SA NA NA NA NA	270 150 110 45 25 58 59 59 59 180 700 402 100 253	CN CJ CJ CB CB CB CB CB CC CN CJ CJ CJ CJ CJ CN CJ	NO N	2, 3, 11,20, 27, 32, 2,3,9,11,14 2,3,9,11,14 2,3,9,14 2,3,9,14 2,3,9,14 2,3,9,14 2,3,9,14 2,3,9,14 1,3,7,9,18,20,27,28,3 1,3,7,11,18,20,27,28,3 1,3,9,11,14 1,3,9,11,14
EF-LD EF-LD-1 EF-FAR EF-BIKE EF-BULK EF-BOIL GEF-A GEF-B GEF-C GEF-D GEF-E S: ECTIONS AF EASE REMOVE ER TO DETA R FANS THAT GHTS INCLU S THAT ARE STHAT ARE STHAT ARE ITRACTOR AF EAST TO AIR H S SHALL BE FORS CONTE CONTENT	GREENHECK GREENH	SQ-130 SQ-160-VG CSP-A390 CSP B200 CSP-A390VG CSP-780 SP-A190 SQ-130 AER-20-VG AER-42 SQ-24-VG SQ-100 AER-24-03 ST ELEVATION OF1091'. COTED FOR GREASE REMO' PTIONS, ACCESSORIES, E MANAGEMENT SYSTEM RBS, MOTORS, ETC. CONTINUOUSLY SHALL HATH LIGHTING CONTROLS CONTROLS AS REQUIRED JULE FOR OA CFM AND BATHE HVI-2100 OR AMCA LATE FOR ADDITIONAL REQUIRED STORM ADDITIONAL REQUIRED IFUGAL ET FUGAL DOWNBLAST FUGAL UPBLAST UGAL	ILC ILC ILC CAB CAB CAB CAB CC ILC ILC ILC WP WP ILC ILC WP ILC ILC WP SFM HAS BEEN VAL (UL 762) AI MOUNTING AR M, REFER TO TI AVE IEC 60034- 5 (E.G. LIGHT S) CALANCE ACCOR ABEL FOR AIR D) SHALL BE IN	LOADING DOCK LOADING DOCK FARS BIKE STORAGE BULK STORAGE TENANT STORAGE IDF ROOM BOILER RM GARAGE GARAGE GARAGE GARAGE GARAGE GARAGE CORRECTED FOR ALTITUDE. ND ELECTRICAL (UL 705) RRANGEMENT, ETC. HE SMOKE CONTROL FAN SO 1 CONTINUOUS DUTY RATED WITCH) MAY NOT BE THE SAN RDINGLY. AND SOUND PERFORMANCE	1600 2360 250 375 200 450 200 735 2700 20,000 13,500 1,000 8,000 CHEDULE D MOTORS. ME VOLTAGE A D SHALL BE CO	0.5 0.5 0.5 0.8 0.8 0.8 0.6 0.6 0.6 0.8 0.8 0.8 0.8	3/4 3/4 69 W 179 W 60 W 258 W 1/4 1/4 1 1/2 5 HTING CIRCUIT	1725 1725 1655 1025 1726 1726 1726 1726 1750 1750 1750 1750 1750 T. COORDIN	VFD VFD D D D VFD VFD VFD VFD VFD	10.6 8.4 NA NA NA NA NA NA Service of the s	150 110 45 25 58 59 59 59 180 700 402 100 253	CJ CJ CB CB CB CB CB CCI CO CO CJ CJ CJ CJ	NO N	2,3,9,11,14 2,3,9,11,14 2,3,9,14 2,3,9,14 2,3,9,14 2,3,9,14 2,3,9,14 2,3,9,11,14 1,3,7,9,18,20,27,28,3 1,3,7,11,18,20,27,28,3 1,3,9,11,14 1,3,9,11,14
EF-LD-1 EF-FAR EF-BIKE EF-BULK EF-ST EF-IDF EF-BOIL GEF-A GEF-B GEF-C GEF-D GEF-E ES: ELECTIONS AF REASE REMON EFER TO DETA OR FANS THAT ARE ONTRACTOR AF EFER TO AIR H INS SHALL BE OTORS CONTE SED. REFER TO	GREENHECK GREENH	SQ-160-VG CSP-A390 CSP B200 CSP-A390VG CSP-780 SP-A190 SQ-130 AER-20-VG AER-42 SQ-24-VG SQ-100 AER-24-03 CT ELEVATION OF1091'. C TED FOR GREASE REMO' PTIONS, ACCESSORIES, E MANAGEMENT SYSTEM RBS, MOTORS, ETC. CONTINUOUSLY SHALL HA THE LIGHTING CONTROLS CONTROLS AS REQUIRED JULE FOR OA CFM AND BA THE HVI-2100 OR AMCA LA FREQUENCY DRIVE (VFI FOR ADDITIONAL REQUI	ILC ILC CAB CAB CAB CC ILC ILC WP WP ILC ILC WP SFM HAS BEEN VAL (UL 762) AI MOUNTING AR M, REFER TO TI AVE IEC 60034- 5 (E.G. LIGHT SV ALANCE ACCOR ABEL FOR AIR D) SHALL BE IN	LOADING DOCK FARS BIKE STORAGE BULK STORAGE TENANT STORAGE IDF ROOM BOILER RM GARAGE GARAGE GARAGE GARAGE GARAGE GARAGE CORRECTED FOR ALTITUDE. ND ELECTRICAL (UL 705) RRANGEMENT, ETC. THE SMOKE CONTROL FAN SO 1 CONTINUOUS DUTY RATED WITCH) MAY NOT BE THE SAN RDINGLY. AND SOUND PERFORMANCE	2360 250 375 200 450 200 735 2700 20,000 13,500 1,000 8,000 CHEDULE D MOTORS. ME VOLTAGE A CONTRIBUTE TYPE: D - DIRECT	0.5 0.8 0.8 0.8 0.6 0.6 0.6 0.8 0.8 0.8 0.8 0.8 0.8	3/4 69 W 179 W 60 W 258 W 1/4 1/4 1/4 1 1 7 1/2 10 1/2 5	1725 1655 1025 1725 1726 1726 1726 1750 1750 1750 1750 1750 T. COORDIN	VFD D D D D VFD VFD VFD VFD	8.4 NA NA NA NA NA NA Service of the service	110 45 25 58 59 59 59 180 700 402 100 253	CJ CB CB CB CB CCB CCB CCD CN CJ CJ CN CJ	NO N	2,3,9,11,14 2,3,9,14 2,3,9,14 2,3,9,14 2,3,9,14 2,3,9,14 2,3,9,11,14 1,3,7,9,18,20,27,28,3 1,3,7,11,18,20,27,28,3 1,3,9,11,14 1,3,9,11,14
EF-FAR EF-BIKE EF-BULK EF-ST EF-IDF EF-BOIL GEF-A GEF-B GEF-C GEF-D GEF-E ES: ELECTIONS AF REASE REMOVE EFER TO DETA OR FANS THAT ARE ANS THAT ARE ONTRACTOR AF EFER TO AIR H ANS SHALL BE OTORS CONTE SED. REFER TO	GREENHECK GREENH	CSP-A390 CSP B200 CSP-A390VG CSP-780 SP-A190 SQ-130 AER-20-VG AER-42 SQ-24-VG SQ-100 AER-24-03 CT ELEVATION OF1091'. C TED FOR GREASE REMO' PTIONS, ACCESSORIES, E MANAGEMENT SYSTEM RBS, MOTORS, ETC. CONTINUOUSLY SHALL HA THE LIGHTING CONTROLS CONTROLS AS REQUIRED JULE FOR OA CFM AND BA THE HVI-2100 OR AMCA LA FREQUENCY DRIVE (VFI FOR ADDITIONAL REQUI	ILC CAB CAB CAB CC ILC ILC WP WP ILC ILC WP SFM HAS BEEN VAL (UL 762) AI MOUNTING AR M, REFER TO TI AVE IEC 60034- 5 (E.G. LIGHT SV ALANCE ACCOR ABEL FOR AIR D) SHALL BE IN	FARS BIKE STORAGE BULK STORAGE TENANT STORAGE IDF ROOM BOILER RM GARAGE GARAGE GARAGE GARAGE GARAGE GARAGE CORRECTED FOR ALTITUDE. ND ELECTRICAL (UL 705) RRANGEMENT, ETC. THE SMOKE CONTROL FAN SO CHESMOKE CONTROL FAN SO C	250 375 200 450 200 735 2700 20,000 13,500 1,000 8,000 CHEDULE D MOTORS. ME VOLTAGE A CONTRIBUTE TYPE: D - DIRECT	0.5 0.8 0.8 0.8 0.6 0.6 0.6 0.6 0.8 0.8 0.8 0.8 0.8	69 W 179 W 60 W 258 W 1/4 1/4 1/4 1 1 7 1/2 10 1/2 5	1655 1025 1725 1726 1726 1726 1750 1750 1750 1750 T. COORDIN	D D D D VFD VFD VFD VFD	NA NA NA NA NA NA NA Selection of the se	45 25 58 59 59 59 180 700 402 100 253	CB CB CB CB CB CCB CCB CCD CCJ CCJ CCJ CCJ CCJ CCJ CCJ CCJ CCJ	NO N	2,3,9,14 2,3,9,14 2,3,9,14 2,3,9,14 2,3,9,11,14 1,3,7,9,18,20,27,28,3 1,3,7,11,18,20,27,28,3 1,3,9,11,14 1,3,9,11,14
EF-BIKE EF-BULK EF-ST EF-IDF EF-BOIL GEF-A GEF-B GEF-C GEF-D GEF-E ES: ELECTIONS AF REASE REMOVE EFER TO DETA OR FANS THAT ARE ANS THAT ARE ONTRACTOR AF EFER TO AIR HE ANS SHALL BE OTORS CONTE SED. REFER TO CESSORIES: GRAVITY BACK MOTORIZED BA	GREENHECK GREENH	CSP B200 CSP-A390VG CSP-780 SP-A190 SQ-130 AER-20-VG AER-42 SQ-24-VG SQ-100 AER-24-03 CT ELEVATION OF1091'. C TED FOR GREASE REMO' PTIONS, ACCESSORIES, E MANAGEMENT SYSTEM RBS, MOTORS, ETC. CONTINUOUSLY SHALL HA THE LIGHTING CONTROLS CONTROLS AS REQUIRED JULE FOR OA CFM AND BA THE HVI-2100 OR AMCA LA FREQUENCY DRIVE (VFI FOR ADDITIONAL REQUI	CAB CAB CAB CAB CC ILC ILC WP WP ILC ILC WP CFM HAS BEEN VAL (UL 762) AI MOUNTING AR M, REFER TO TI AVE IEC 60034- 5 (E.G. LIGHT SV C) ALANCE ACCOR ABEL FOR AIR D) SHALL BE IN	BIKE STORAGE BULK STORAGE TENANT STORAGE IDF ROOM BOILER RM GARAGE GARAGE GARAGE GARAGE GARAGE CORRECTED FOR ALTITUDE. ND ELECTRICAL (UL 705) RRANGEMENT, ETC. THE SMOKE CONTROL FAN SO 1 CONTINUOUS DUTY RATED WITCH) MAY NOT BE THE SAN RDINGLY. AND SOUND PERFORMANCE	375 200 450 200 735 2700 20,000 13,500 1,000 8,000 CHEDULE D MOTORS. ME VOLTAGE A CONTRIBUTE TYPE: D - DIRECT	0.8 0.8 0.8 0.6 0.6 0.6 0.6 0.8 0.8 0.8 0.8 0.8 0.8	179 W 60 W 258 W 1/4 1/4 1 /4 1	1025 1725 1726 1726 1726 1726 1750 1750 1750 1750 T. COORDIN	D D D VFD VFD VFD VFD	NA NA NA NA NA 20.0 54.0 59.0 9.0 85 DBA THE ELECTRI	25 58 59 59 59 180 700 402 100 253	CB CB CB CB CCB CN CJ CJ CN CJ CJ	NO	2,3,9,14 2,3,9,14 2,3,9,14 2,3,9,11,14 2,3,9,11,14 1,3,7,9,18,20,27,28,3 1,3,7,11,18,20,27,28,3 1,3,9,11,14 1,3,9,11,14
EF-BULK EF-ST EF-IDF EF-BOIL GEF-A GEF-B GEF-C GEF-D GEF-E TES: SELECTIONS AF GREASE REMOVE REFER TO DETA FOR FANS THAT ARE CONTRACTOR AF REFER TO AIR H ANS SHALL BE MOTORS CONTR JUSED. REFER TO CESSORIES: GRAVITY BACK MOTORIZED BA	GREENHECK GREENH	CSP-A390-VG CSP-780 SP-A190 SQ-130 AER-20-VG AER-42 SQ-24-VG SQ-100 AER-24-03 ET ELEVATION OF1091'. C TED FOR GREASE REMO' PTIONS, ACCESSORIES, E MANAGEMENT SYSTEM RBS, MOTORS, ETC. CONTINUOUSLY SHALL HA THE LIGHTING CONTROLS ECONTROLS AS REQUIRED JULE FOR OA CFM AND BA THE HVI-2100 OR AMCA LA FREQUENCY DRIVE (VFI FOR ADDITIONAL REQUI	CAB CAB CC ILC ILC WP WP ILC ILC WP CFM HAS BEEN VAL (UL 762) AI MOUNTING AR M, REFER TO TI AVE IEC 60034- 5 (E.G. LIGHT SV C) ALANCE ACCOR ABEL FOR AIR D) SHALL BE IN	BULK STORAGE TENANT STORAGE IDF ROOM BOILER RM GARAGE GARAGE GARAGE GARAGE GARAGE CORRECTED FOR ALTITUDE. ND ELECTRICAL (UL 705) RRANGEMENT, ETC. HE SMOKE CONTROL FAN SO 1 CONTINUOUS DUTY RATED WITCH) MAY NOT BE THE SAN RDINGLY. AND SOUND PERFORMANCE	200 450 200 735 2700 20,000 13,500 1,000 8,000 CHEDULE D MOTORS. ME VOLTAGE A CONTRIBUTE TYPE: D - DIRECT	0.8 0.6 0.6 0.6 0.6 0.8 0.8 0.8 0.8 0.8	60 W 258 W 1/4 1/4 1 1 7 1/2 10 1/2 5	1725 1726 1726 1726 1750 1750 1750 1750 T. COORDIN	D D D VFD VFD VFD	NA NA NA NA NA 20.0 54.0 59.0 9.0 85 DBA THE ELECTRI	58 59 59 59 180 700 402 100 253	CB CB CB CCB CN CJ CJ CN CJ	NO	2,3,9,14 2,3,9,14 2,3,9,11,14 2,3,9,11,14 1,3,7,9,18,20,27,28,3 1,3,7,11,18,20,27,28,3 1,3,9,11,14 1,3,9,11,14
EF-ST EF-IDF EF-BOIL GEF-A GEF-B GEF-C GEF-D GEF-E TES: SELECTIONS AF GREASE REMON REFER TO DETA FOR FANS THAT WEIGHTS INCLU FANS THAT ARE CONTRACTOR A REFER TO AIR F FANS SHALL BE MOTORS CONTF JSED. REFER TO CCESSORIES: GRAVITY BACK MOTORIZED BACK MOT	GREENHECK	CSP-780 SP-A190 SQ-130 AER-20-VG AER-42 SQ-24-VG SQ-100 AER-24-03 TELEVATION OF1091'. C TED FOR GREASE REMO' PTIONS, ACCESSORIES, E MANAGEMENT SYSTEM RBS, MOTORS, ETC. CONTINUOUSLY SHALL HA TH LIGHTING CONTROLS CONTROLS AS REQUIRED JULE FOR OA CFM AND BA THE HVI-2100 OR AMCA LA FREQUENCY DRIVE (VFI FOR ADDITIONAL REQUI	CAB CC ILC ILC WP ILC ILC WP ILC ILC WP CFM HAS BEEN VAL (UL 762) AI MOUNTING AR M, REFER TO TI AVE IEC 60034- 5 (E.G. LIGHT SV C) ALANCE ACCOR ABEL FOR AIR D) SHALL BE IN	TENANT STORAGE IDF ROOM BOILER RM GARAGE GARAGE GARAGE GARAGE GARAGE CORRECTED FOR ALTITUDE. ND ELECTRICAL (UL 705) RRANGEMENT, ETC. HE SMOKE CONTROL FAN SO 1 CONTINUOUS DUTY RATED WITCH) MAY NOT BE THE SAN RDINGLY. AND SOUND PERFORMANCE	450 200 735 2700 20,000 13,500 1,000 8,000 CHEDULE D MOTORS. ME VOLTAGE A CONTROL OF TYPE: D - DIRECT	0.8 0.6 0.6 0.6 0.8 0.8 0.8 0.8	258 W 1/4 1/4 1 1 7 1/2 10 1/2 5	1726 1726 1726 1750 1750 1750 1750	D D VFD VFD VFD	NA NA NA 20.0 54.0 59.0 9.0 85 DBA THE ELECTRI	59 59 180 700 402 100 253	CB CB CB CN CJ CJ CN CJ	NO NO NO NO NO NO NO NO NO	2,3,9,14 2,3,9,14 2,3,9,11,14 1,3,7,9,18,20,27,28,32 1,3,7,11,18,20,27,28,3 1,3,9,11,14 1,3,9,11,14
EF-IDF EF-BOIL GEF-A GEF-B GEF-C GEF-D GEF-E TES: SELECTIONS AF GREASE REMON REFER TO DETA FOR FANS THAT WEIGHTS INCLU FANS THAT ARE CONTRACTOR A REFER TO AIR I FANS SHALL BE MOTORS CONTE JSED. REFER TO CCESSORIES: GRAVITY BACK MOTORIZED BA	GREENHECK AT ARE PART OF A SMOK UDE ACCESSORIES, CUI E SCHEDULED TO RUN O E INTERCONNECTED WI AND PROVIDE RELAYS/O HANDLING UNIT SCHED E CERTIFIED AND BEAR TROLLED BY A VARIABLE TO THE SPECIFICATIONS FAN TYPES: CC - CEILING CENTR CAB - IN LINE CABIN RCD - ROOF CENTRI RCU - ROOF CENTRI WC - WALL CENTRIF	SP-A190 SQ-130 AER-20-VG AER-42 SQ-24-VG SQ-100 AER-24-03 CT ELEVATION OF1091'. C TED FOR GREASE REMO' PTIONS, ACCESSORIES, E MANAGEMENT SYSTEM RBS, MOTORS, ETC. CONTINUOUSLY SHALL HA TH LIGHTING CONTROLS CONTROLS AS REQUIRED JULE FOR OA CFM AND BA THE HVI-2100 OR AMCA LA FREQUENCY DRIVE (VFI FOR ADDITIONAL REQUI	CC ILC WP WP ILC ILC WP SFM HAS BEEN VAL (UL 762) AI MOUNTING AR M, REFER TO TI AVE IEC 60034- 5 (E.G. LIGHT SV ALANCE ACCOR ABEL FOR AIR D) SHALL BE IN	IDF ROOM BOILER RM GARAGE GARAGE GARAGE GARAGE GARAGE CORRECTED FOR ALTITUDE. ND ELECTRICAL (UL 705) RRANGEMENT, ETC. HE SMOKE CONTROL FAN SO 1 CONTINUOUS DUTY RATED WITCH) MAY NOT BE THE SAN RDINGLY. AND SOUND PERFORMANCE	200 735 2700 20,000 13,500 1,000 8,000 CHEDULE D MOTORS. ME VOLTAGE A CONTROL OF TYPE: D - DIRECT	0.6 0.6 0.6 0.8 0.8 0.8	1/4 1/4 1 7 1/2 10 1/2 5	1726 1726 1750 1750 1750 1750 T. COORDIN	D D VFD VFD D VFD	NA NA 20.0 54.0 59.0 9.0 85 DBA THE ELECTRI	59 59 180 700 402 100 253	CB CB CN CJ CJ CN CJ	NO NO NO NO NO	2,3,9,14 2,3,9,11,14 1,3,7,9,18,20,27,28,3 1,3,7,11,18,20,27,28,3 1,3,9,11,14 1,3,9,11,14
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GEF-B GEF-C GEF-D GEF-E TES: SELECTIONS AF GREASE REMOV REFER TO DETA FOR FANS THAT WEIGHTS INCLU FANS THAT ARE CONTRACTOR A REFER TO AIR H FANS SHALL BE MOTORS CONTE JSED. REFER TO CCESSORIES: GRAVITY BACK MOTORIZED BA	GREENHECK GREENHECK GREENHECK GREENHECK GREENHECK GREENHECK RE BASED ON A PROJECT DVAL FANS SHALL BE LIST FAILS FOR ADDITIONAL CONTAINS AT ARE PART OF A SMOKET AND PROVIDE RELAYS/CONTAINS AND PROVIDE RELAYS/CONTAINS E CERTIFIED AND BEAR TO THE SPECIFICATIONS FAN TYPES: CC - CEILING CENTRE CAB - IN LINE CABIN RCD - ROOF CENTRE RCU - ROOF CENTRE WC - WALL CENTRE	AER-42 SQ-24-VG SQ-100 AER-24-03 ET ELEVATION OF1091'. C TED FOR GREASE REMO' PTIONS, ACCESSORIES, E MANAGEMENT SYSTEM RBS, MOTORS, ETC. CONTINUOUSLY SHALL HA TH LIGHTING CONTROLS CONTROLS AS REQUIRED JULE FOR OA CFM AND BA THE HVI-2100 OR AMCA LA FREQUENCY DRIVE (VFI FOR ADDITIONAL REQUI	WP ILC ILC WP SFM HAS BEEN VAL (UL 762) AI MOUNTING AR M, REFER TO TI AVE IEC 60034- GE.G. LIGHT SV ALANCE ACCOR ABEL FOR AIR D) SHALL BE IN	GARAGE GARAGE GARAGE GARAGE CORRECTED FOR ALTITUDE. ND ELECTRICAL (UL 705) RRANGEMENT, ETC. HE SMOKE CONTROL FAN SC -1 CONTINUOUS DUTY RATED WITCH) MAY NOT BE THE SAN RDINGLY. AND SOUND PERFORMANCE	20,000 13,500 1,000 8,000 CHEDULE D MOTORS. ME VOLTAGE A S SHALL BE CO DRIVE TYPE: D - DIRECT	0.6 0.8 0.8 0.8 0.8 OMPATIBLE V	7 1/2 10 1/2 5	1750 1750 1750 1750 T. COORDIN	VFD VFD VFD	54.0 59.0 9.0 85 DBA	700 402 100 253 CAL	CY CY CY	NO NO NO	1,3,7,11,18,20,27,28,3 1,3,9,11,14 1,3,9,11,14
GEF-B GEF-C GEF-D GEF-E TES: SELECTIONS AF GREASE REMOV REFER TO DETA FOR FANS THAT WEIGHTS INCLU FANS THAT ARE CONTRACTOR A REFER TO AIR H FANS SHALL BE MOTORS CONTE JSED. REFER TO CCESSORIES: GRAVITY BACK MOTORIZED BA	GREENHECK GREENHECK GREENHECK GREENHECK GREENHECK GREENHECK RE BASED ON A PROJECT DVAL FANS SHALL BE LIST FAILS FOR ADDITIONAL CONTAINS AT ARE PART OF A SMOKET AND PROVIDE RELAYS/CONTAINS AND PROVIDE RELAYS/CONTAINS E CERTIFIED AND BEAR TO THE SPECIFICATIONS FAN TYPES: CC - CEILING CENTRE CAB - IN LINE CABIN RCD - ROOF CENTRE RCU - ROOF CENTRE WC - WALL CENTRE	AER-42 SQ-24-VG SQ-100 AER-24-03 ET ELEVATION OF1091'. C TED FOR GREASE REMO' PTIONS, ACCESSORIES, E MANAGEMENT SYSTEM RBS, MOTORS, ETC. CONTINUOUSLY SHALL HA TH LIGHTING CONTROLS CONTROLS AS REQUIRED JULE FOR OA CFM AND BA THE HVI-2100 OR AMCA LA FREQUENCY DRIVE (VFI FOR ADDITIONAL REQUI	WP ILC ILC WP SFM HAS BEEN VAL (UL 762) AI MOUNTING AR M, REFER TO TI AVE IEC 60034- GE.G. LIGHT SV ALANCE ACCOR ABEL FOR AIR D) SHALL BE IN	GARAGE GARAGE GARAGE GARAGE CORRECTED FOR ALTITUDE. ND ELECTRICAL (UL 705) RRANGEMENT, ETC. HE SMOKE CONTROL FAN SC -1 CONTINUOUS DUTY RATED WITCH) MAY NOT BE THE SAN RDINGLY. AND SOUND PERFORMANCE	20,000 13,500 1,000 8,000 CHEDULE D MOTORS. ME VOLTAGE A S SHALL BE CO DRIVE TYPE: D - DIRECT	0.6 0.8 0.8 0.8 0.8 OMPATIBLE V	7 1/2 10 1/2 5	1750 1750 1750 1750 T. COORDIN	VFD VFD VFD	54.0 59.0 9.0 85 DBA	700 402 100 253 CAL	CY CY CY	NO NO NO	1,3,7,11,18,20,27,28,3 1,3,9,11,14 1,3,9,11,14
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GRAVITY BACK MOTORIZED BA	WP - WALL PROPELL RUP - ROOF UPBLAS TA - TUBE AXIAL UCF - UTILITY CENTI CF - CIRCULATION F	ER T PROPELLER/AXIAL RIFUGAL FAN						CC - START CD - INTER CE - INTER CF - SWITC CG - DOOR CH - VARIA CJ - CO/NO	T/STOP SWITH RLOCK WITH CH ON FACE R SWITCH (J. ABLE FREQU D2 GAS MON MOUNTED H	TCH WITH INI I BAS/TIMECL I MOTORIZED OF KITCHEN AMB MOUNTE JENCY DRIVE IITORING AND	DICATOR LIGHT OCK DAMPER/COMBI HOOD ED) CONTROL SYST	TEM		
GRAVITY BACK MOTORIZED BA	FS - FILTERED SUPF							CN - CONTI CP - WALL CQ - INTER CR - INTER	INUOUS OP MOUNTED T RLOCK WITH RLOCK WITH	ERATION TIMER (0-30 N I GAS MONITO	ORING SYSTEM/E N CONTROLLER/	BOILER CONTROLS 'AIR HANDLER	ATION"	
COMBINATION MINIMUM 14" H MANUFACTURE BIRD SCREEN INSECT SCREE	BACKDRAFT DAMPER UNTED DISCONNECT SW N STARTER/DISCONNECT HIGH INSULATED ROOF (RER'S STANDARD WALL (EN	(FOR MOUNTING BY ELE CURB CAP	ŕ	TRICAL)				25. INSULA 26. ANGLEI 27. 1" SPRI 28. WALL H 29. WALL C 30. 45 DEG 31. MOTOR	ATED HOUSII D FILTER BO ING TYPE VI HOUSING WI COLLAR WIT GREE WEATH RIZED DAMP	NG DX WITH 1" M BRATION ISC ITH CLOSURE IH CLOSURE A HERHOOD WI FER WITH END	ERV 8 FILTERS DLATORS E ANGLES ANGLES TH BIRDSCREEN	ı		
SPEED CONTR VARIABLE FREI EC MOTOR ENERGY STAR VIBRATION ISO CEILING RADIA	ROLLER EQUENCY DRIVE (FOR M R OLATION KIT (NEOPRENI ATION DAMPER ED SWITCH WITH HUMID				33. LOUVER 34. REVER! 35. EXTENI 36. FLOOR 37. HANGE 38. DOOR \$ 39. OVERH	R MOUNTING SIBLE AIRFL DED GREAS MOUNTED I FR WITH VIBI SWITCH (JAI IEAD MOUNT	G LOW SE LINES EQUIPMENT I RATION ISOL MB MOUNTED TING KIT AND	ATION KIT(SPRIN D) 9' CORD AND PL	NG ISOLATOR)	ENTILATION				
INLET GUARD OUTLET GUARI MOTOR COVER ACOUSTICAL C EXPLOSION PR								41. DISCON	FAN" (FOR I NNECT SWIT NUM DAMPE AND PLUG	MOUNTING B	Y ELECTRICAL) UNTING BY ELEC			
LESS NOTED O	RD :R/BELT GUARD CURB													

FANS

100% OUTSIDE AIR UNITS (NATURAL GAS HEAT)

						FAN						COC	LING						HEATI	NG		FILTERS		
TAG	MANUF	EQUIP SERIES	AREA SERVED	AIDELOW/		MAX	TSP	FCD	CAPACI	TY (MBH)		Ţ	EMP (°F	-)		EFFIC	IENCY	CAPACIT	Y (MBH)		LAT	MEDV	APPROX WEIGHT	ACCESSORIES
IAG	IVIAINOI	EQUIP SEINES	ANLA SLIVED	AIRFLOW (CFM)	MOTOR	MOTOR	(IN WC)	ESP (IN WC)	TOT	SENS	E	AT	LA	ΑT	AMB	EER	ISMRE	MAX	MIN	EAT (°F)	LAT (°F)	MERV RATING	(LB)	ACCESSONIES
				` '	BHP	HP		,		CLITO	DB	WB	DB	WB	DB	LLI	IOIVII (L	INPUT	OUTPUT		()			
OAU R-1	DAIKIN	RPS140D	DWELLING&CORR	21,000	14	20	2.7	1.5	1726.0	775.7	89	78	55	55	89.0	9.1	-	1875.0	1500.0	15.0	81	13	12,500	1, 2, 4, 5
OAU R-2	DAIKIN	RPS 130D	DWELLING&CORR	20,000	12	20	2.7	1.5	1643.8	738.8	89	78	55	55	89.0	9.1	-	1875.0	1500.0	15.0	83	13	12,500	1, 2, 4, 5
OAU R-3	DAIKIN	RPSA052	DWELLING&CORR	8,500	(4)3.2	(4)6.4	3.0	1.5	700.0	314.0	89	78	55	55	89.0	9.7	6.0	800.0	640.0	15.0	86	13	8,200	1, 2, 4, 5
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SPECIFICATION NOTES: (APPLIES TO ALL UNITS)

A. COOLING CAPACITY BASED ON DESIGN WET BULB & MEAN COINCIDENT DRY BULB LISTED AND A PROJECT ELEVATION OF 1097'. CFM HAS BEEN DERATED FOR ALTITUDE.

B. REFRIGERANT SHALL BE R-410A. C. MOTORIZED, CLASS 1, LOW-LEAKAGE TYPE OUTSIDE AIR SHUTOFF DAMPER WITH BLADE AND JAMB SEALS.

D. EXTERNAL STATIC PRESSURE DOES NOT INCLUDE HEAT EXCHANGER, CASING, OR FILTER LOSSES.

E. COMPRESSORS SHALL HAVE ANTI-RECYCLE CONTROLS, CRANKCASE HEATERS ON ALL COMPRESSORS AND VARIABLE CAPACITY ON AT LEAST ONE COMPRESSOR. F. UNITS SHALL BE AHRI 340/360 RATED, PROVIDED WITH 2" MERV 8 AND 2" MERV 13 PLEATED DISPOSABLE FILTERS, DIRTY FILTER MONITOR AND ALARM, CONDENSATE OVERFLOW SWITCH, SS DRAIN PAN,

WEATHER HOOD WITH ALUMINUM MESH FILTERS, PHASE & BROWNOUT PROTECTION, & MECHANICAL COOLING OPERATION DOWN TO 40°F. SMOKE DETECTOR MOUNTED IN SUPPLY AIRSTREAM. G. FANS SHALL BE DIRECT DRIVE PLENUM TYPE WITH PREMIUM EFFICIENCY MOTORS, VIBRATION ISOLATION FOR EACH FAN AND VARIABLE SPEED DRIVE.

H. DOUBLE WALL CASING WITH 2" THICK POLYUREATHANE FOAM INSULATION (R-13, MINIMUM; MINIMUM DENSITY OF 2 LBS/CF).

J. HEATING SECTION SHALL HAVE STAINLESS STEEL HEAT EXCHANGER WITH DIRECT SPARK IGNITION, 10 YEAR WARRANTY, & 80% MIN STEADY STATE COMBUSTION EFFICIENCY. K. SINGLE POINT POWER CONNECTION WITH DISCONNECT SWITCH, GFCI 15 AMP CONVENIENCE OUTLET POWERED ON LINE SIDE OF DISCONNECT AND CONTROL VOLTAGE TRANSFORMER (COORD W/ ELECTRICAL).

L. FULLY MODULATING HOT GAS RE-HEAT COIL WITH CAPACITY TO DELIVER NEUTRAL AIR AT 72 DB/60 F WB (55% RH).

M. WEATHERIZED OUTDOOR UNIT WITH INTAKE AND EXHAUST HOODS. N. REFER TO PLANS AND DETAILS FOR UNIT CONFIGURATION.

P . MANUFACTURER STARTUP AND REPORT.

O. PROVIDE AIRFLOW MEASURING STATION.

Q. MOUNT ON MINIMUM 1" DEFLECTION SPRING VIBRATION ISOLATION RAILS ON ROOF CURB.

R. FOR UNITS THAT ARE MOUNTED ON A 30" OR TALLER ROOF CURB, PROVIDE A SERVICE PLATFORM ON THE SERVICE SIDE(S) OF THE UNIT COMPLETE WITH GUARD RAILS AND LADDER. S. BAS COMPATIBLE (BACnet) CONTROLLER, PROGRAMABLE DIGITAL DISPLAY THERMOSTAT WITH TWO (2) TEMPERATURE SENSORS TO BE WALL MOUNTED ON THE TOP TWO FLOORS.

T. KINETICS KNM-100B SOUND BARRIER MATERIAL INSIDE OF ROOF CURB AND ON TOP OF ROOF DECK. U. COORDINATE WITH THE ELECTRICAL DRAWINGS FOR THE REQUIRED SHORT CIRCUIT CURRENT RATING OF THE PANELBOARD SERVING THE MULTI-MOTOR OR COMBINATION LOAD EQUIPMENT. THE EQUIPMENT NAMEPLATE

SHALL BEAR A RATING OF NO LESS THAN THE PANELBOARD RATING.

ACCESSORIES: (THIS LIST IS NOT ALL INCLUSIVE. IN ADDITION, PROVIDE MANUFACTURER RECOMMEND ACCESSORIES FOR SAFE AND PROPER OPERATION): 1. 14" (MIN.) HIGH ROOF CURB

2. CONDENSER COIL HAIL GUARDS 3. ROOF CURB - DOWN DISCHARGE UNITS SHALL BE PROVIDED WITH EXTENDED CURB TO TRANSITION TO HORIZONTAL DISCHARGE WHERE HORIZONTAL CONFIGURATION IS SHOWN

4. AIRFLOW MONITORING STATION 5. INTERLOCK THE OAU WITH THE EF-TR AND EF-TR-S SO THAT THEOAU SHALL SHUT DOWN WHEN THE FAN IS DISABLED (FAILED).

EQUIPMENT SELECTIONS BASED ON PRODUCTS INDICATED. SUBJECT TO COMPLIANCE WITH ALL PRODUCTS, EQUAL PRODUCTS BY: DAIKIN, TRANE, GREENHECK, ENGINEERED AIR, VALENT, ANNEXAIR. ADDISON.

ACCESSORIES/

CONSTRUCTION **DOCUMENTS**



4275 Shackleford Rd., • Suite 200 Norcross, GA 30093-2997 p. 770.447.5547 • f. 770.448.0262

Project Number: 22010076 Checked By: Checker Drawn By: Author



PURSUING LEED



3 PERMIT COMMENTS 5/17/2023 5 PERMIT COMMENTS 6/23/2023

ISSUE DATE 2023.05.10

PROJECT # 21128

SCHEDULES -**MECHANICAL**

									PARKING	GARAGE FAN S	CHEDULE									
TAG	QTY	MODEL	MANUFACTUR ER	MOTOR TYPE V	VEIGHT (LBS)	IMPELLER	FAN BLADE SIZE (mm.)	STARTER TYPE	THRUST (N)	AIRFLOW (CFM)	OUTLET VELOCITY (FPM)	RPM	VOLTS	PH	POWER (kW)	CURRENT (A)	GARAGE INSTALLED SOUND (dBA @ 8m)	FREE-FIELD SOUND (dBA @ 3m)	CONTROL NOT	TES
TRF-A	SEE PLAN	JetVent JVEC-LP	Zoo Fans	Premium Efficiency EC	196	Backward-curved Centrifugal	450	NONE	46.8	3178	4554	1770	480	3	1.7	2.9	77	69	FAN SPEED PROPORTIONAL 1, 2, 3, 4	4, 5,6,7

1. INTEGRATED SOFT-START IN EC MOTOR, DO NOT USE EXTERNAL STARTER

2. FAN MUST HAVE DEDICATED INPUTS FOR TWO (2) EXTERNAL SENSORS. SENSORS DO NOT REQUIRE EXTERNAL POWER.

3. FAN SPEED TO RUN PROPORTIONAL TO SENSOR OR BAS DEMAND. REFER TO JETVENT FAN CONTROL SEQUENCE. 4. GARAGE INSTALLED SOUND LEVEL MEASURED 8M FROM FAN WITH MULTIPLE FANS OPERATING.

5. SOUND MEASUREMENTS IN ACCORDANCE WITH ISO 13347. PARKING GARAGE INSTALLED SOUND LEVELS MUST BE PROVIDED.

6. FANS TO BE FULL VARIABLE SPEED CONTROLLABLE AND PROVIDE SENSOR VALUES, FAN STATUS, AND FAULT CODES VIA MODBUS. SYSTE...

7. FREE-FIELD SOUND LEVEL MEASURED 3M FROM FAN WITH MULTIPLE FANS OPERATING.

					JetVent Fan Control Seq	uence	
TAG	MODEL	QTY	JETVENT FAN	ACTIVATION	EXHUAST FAN ACTIVATION LEVEL	LEVEL FOR MAXIMUM FAN	NOTES
SEN-NO2	SEN-NO2	0	1 F	PPM	3 PPM	5 PPM	1,2
SEN-CO	SEN-CO	0	10	PPM	30 PPM	50 PPM	1,2
SEN-CN.DIG	SEN-CN.D	29	СО	10 PPM	30 PPM	50 PPM	1,2
SLIN-CIN.DIG	IG	29	NO2	1 PPM	3 PPM	5 PPM	1,2

NOTES:
1. FAN SPEED PROPORTIONAL FROM FAN ACTIVATION LEVEL TO LEVEL FOR MAXIMUM SPEED

ODOR ELIMINATOR OUTPUT APPROX.
CAPACITY WEIGHT
(W) (LBs) **ACCESSORIES** MOUNTING DE-IONOIZATION 360.0 25 1, 2, 3 NOTES (APPLY TO ALL HEATERS):

A. UNIT SHALL BE UL OR ETL TESTED AND LISTED. B. PROVIDE DISCONNECT SWITCH. ACCESSORIES: 1.LOCKABLE ACCESS DOOR 2. INTEGRAL DISCONNECT SWITCH SURFACE MOUNTING KIT
 CORD AND PLUG SELECTIONS BASED ON PRODUCTS BY SANUVAIR



CONSTRUCTION DOCUMENTS



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PURSUING LEED



REVISION INFORMATION

RFI 5/11/2023 2 PERMIT COMMENTS 5/05/2023 6 ADDENDUM #1 08/30/2024

PROJECT # 21128 ISSUE DATE 2024.08.30

SCHEDULES -MECHANICAL