	and the second s	The state of the s		The state of the s				[1
DESIGNATION	AC-A13,	AC-A1A, A1B, A1C, A1D,	AC-7A, 7B,	AC-A3	AC-4	AC-A2, A11	AC-A9	AC-A5	AC-A8	AC-H1, H2	AC-A6	AC-A10, A12
TONS	20	15	15	12.5	8.5	7.5	7.5	6	6	5	4	3
VOLTS/PHASE	460/3	460/3	460/3	460/3	460/3	460/3	460/3	460/3	460/3	460/3	460/3	460/3
F.L.A. / M.C.A.	61.0 / 57.6	38.0 / 36.9	45.0 / 42.5	32.0 / 30.4	21.0 / 20.0	21.0 / 19.7	21.0 / 19.7	18.0 / 18.1	18.0 / 18.1	15.0 / 14.7	14.0 / 13.7	13.0 / 12.8
SEER/EER @ ARI	/12.0	/ 12.0	/12.0	/ 12.2	/ 12.00	/12.00	/ 12.00	/12.00	/12.00	15.2/12.45	15.6/13.0	15.0/12.5
BLOWER			OMINIA MENTENDEN MENTENDE ANT MENTENDE MENTENDE MENTENDE MENTENDE DE MENTENDE MENTENDE DE FRANCE DE MENTENDE DE		CONTRACTOR	Anne (Construent to the Anne		DOS CONTRACTOR DE LA CO				
SUPPLY AIR (CFM)	7,000	3,000 - 5,250 (V.A.V.)	3,000 - 5,250 (V.A.V.)	4,375	2,975	2,625	2,625	2,100	2,100	1,750	1,400	1,050
EXT. S P (IN. WC)	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.52	0.60	0.53
MIN. O.S.A. (CFM)	SEE PLANS	SEE PLANS	SEE PLANS	SEE PLANS	SEE PLANS	SEE PLANS	SEE PLANS	SEE PLANS	SEE PLANS	SEE PLANS	SEE PLANS	SEE PLANS
BHP	4.60	2.63	1.79	1.59	1.16	0.90	0.90	0.91	0.91	0.81	0.59	0.33
RPM	840	708	688	626	757	714	714	648	648	M	- alice	
DRIVE	BELT	BELT	BELT	BELT	BELT	BELT	BELT	BELT	BELT	DIRECT	DIRECT	DIRECT
COOLING												
SENSIBLE (MBH)	175.2	129.3	129.3	110.5	75.6	67.4	67.4	53.3	53.3	44.7	35.7	26.5
TOTAL (MBH)	244.6	179.7	179.7	148.5	101.6	91.4	91.4	73.6	73.6	59.3	49.5	36.5
EADB/EAWB (0F)	ARI CONDITIONS	ARI CONDITIONS	ARI CONDITIONS	ARI CONDITIONS	ARI CONDITIONS	ARI CONDITIONS	ARI CONDITIONS	ARI CONDITIONS	ARI CONDITIONS	ARI CONDITIONS	ARI CONDITIONS	ARI CONDITIONS
AMBIENT AIR (0F)	ARI CONDITIONS	ARI CONDITIONS	ARI CONDITIONS	ARI CONDITIONS	ARI CONDITIONS	ARI CONDITIONS	ARI CONDITIONS	ARI CONDITIONS	ARI CONDITIONS	ARI CONDITIONS	ARI CONDITIONS	ARI CONDITIONS
COMPRESSORS	2	2	2	2	2	2	2	1	1	1	1	1
HEATING												
INPUT CAPACITY (MBH)	310.0	220.0	220.0	180.0	125.0	125.0	125.0	72.0	72.0	60.0	60.0	60.0
OUTPUT CAPACITY (MBH)	251.0	178.0	178.0	146.0	103.0	103.0	103.0	59.0	59.0	50.0	50.0	50.0
FUEL	NATURAL GAS	NATURAL GAS	NATURAL GAS	NATURAL GAS	NATURAL GAS	NATURAL GAS	NATURAL GAS	NATURAL GAS	NATURAL GAS	NATURAL GAS	NATURAL GAS	NATURAL GAS
AFUE (%)	81%	81%	81%	81%	82%	82%	82%	82%	82%	81%	81%	81%
STAGES	2	2	2	2	2	2	2	2	2	1	1	1
FILTER												e designation des de la completion de la
AREA (SQ. FT.)	25.00	20.83	20.83	18.00	11.11	11.11	11.11	8.89	8.89	7.11	7.11	5.55
TYPE	2" PLEATED MERV 8	2" PLEATED MERV 8	2" PLEATED MERV 8	2" PLEATED MERV 8	2" PLEATED MERV 8	2" PLEATED MERV 8	2" PLEATED MERV 8	2" PLEATED MERV 8	2" PLEATED MERV 8	2" PLEATED MERV 8	2" PLEATED MERV 8	2" PLEATED MERV 8
MANUFACTURER	CARRIER	CARRIER	CARRIER	CARRIER	CARRIER	CARRIER	CARRIER	CARRIER	CARRIER	CARRIER	CARRIER	CARRIER
TYPE	GAS/ELECTRIC	GAS/ELECTRIC	GAS/ELECTRIC	GAS/ELECTRIC	GAS/ELECTRIC	GAS/ELECTRIC	GAS/ELECTRIC	GAS/ELECTRIC	GAS/ELECTRIC	GAS/ELECTRIC	GAS/ELECTRIC	GAS/ELECTRIC
MODEL NUMBER	48HCE24	48HCE17	48HCE17	48HCE14	48HCD09	48HCD08	48HCD08	48HCD07	48HCD07	48HCL06	48HCL05	48HCL04
OPER. WT (LBS)	2,900	2,550	2,550	1,850	1,220	1,220	1,220	980	980	765	755	670
ACCESSORIES	1, 3 THRU 8, 10, 12, 13	2 THRU 13	1 THRU 10, 12, 13	1 THRU 8, 12, 13	1, 3 THRU 8, 12, 13	1 THRU 8, 12, 13	1, 3 THRU 8, 12, 13	1, 3 THRU 8, 12, 13	1 THRU 8, 12, 13	1 THRU 8, 12, 13	1 THRU 8, 12, 13	1 THRU 8, 12, 13

1. INTEGRATED ECONOMIZER WITH DRY BULB CONTROLS AND POWER EXHAUST FAN.

2. WALL MOUNTED CO2 SENSOR AND ASSOCIATED IAQ CONTROLS PACKAGE TO OVERRIDE ECONOMIZER FUNCTION.

3. MINIMUM 16 GAUGE FULLY WELDED ROOF CURB (CONFIRM PITCH) WITH INSULATION PAN BELOW COMPRESSORS. 4. THROUGH THE BOTTOM SERVICE GAS AND ELECTRICAL CONNECTIONS (COORDINATE WITH ELECTRICAL & PLUMBING TRADES PRIOR TO ORDERING).

5. HINGED ACCESS DOORS WITH 1/4 TURN LATCHES AND TIEBACKS. 6. INTERNAL HIGH AND LOW PRESSURE COMPRESSOR PROTECTION.

7. TXV REFRIGERANT METERING DEVICE ON EACH CIRCUIT. 8. FLUE DISCHARGE DEFLECTOR.

9. SINGLE ZONE V.A.V. CONTROLLER, FAN SPEED AND COOLING / HEATING CAPACITY SHALL RESPOND TO DEMAND REPRESENTED AT WALL MOUNTED THERMOSTAT AND SHALL INTEGRATE WITH CO2 SPACE SENSOR TO SATISFY DEMAND CONTROL VENTILATION.

10. PREMIUM EFFICIENCY INDOOR FAN MOTOR OPTION. 11. HORIZONTAL SUPPLY AND RETURN CONFIGURATION WITH ECONOMIZER. REMOTE EXHAUST FAN USED FOR POWER EXHAUST. SEE EXHAUST FAN SCHEDULE.

12. COMFORT LINK CONTROL PANEL WITH SCROLLING MARQUEE TO DISPLAY UNIT DIAGNOSTICS.

13. FILTERS TO BE CAMFIL/FARR AP11. 09" W.C. CLEAN STATIC PRESSURE DROP AT 250 FPM.

DESIGNATION	KEF A1, A2, A3,	EF A1-A1, A1-A2,	EF H1	EF A4,A5, A6	EF J1, J2, K1, K2,	EF A7, D1, G1, N1	EF M1, M2	EF M3	EF H2, H3
•	A4-A, A4-B	A1-B1, A1-B2, A1-C1,		}	Q1, Q2, R1, R2				
		A1-C2, A1-D1, A1-D2							
CFM		2,500	700	400 - 650	450 - 600	96	119	300	96
EXT. S P (IN. WC)		0.30	0.50	0.50	0.50	0.20	0.15	0.40	0.20
BHP/HP/WATTS	SEE CAPTIVE	0.62 / 0.75 /	0.16 / 0.25 /	0.12/0.125/	0.12 / 0.125 /	//49	//53	0.05/0.05/	//49
VOLTS/ PHASE	AIRE SHEETS	115/1	115/1	115/1	115/1	115/1	115/1	115/1	115/1
RPM	M505 THRU	1,456	1,610	1,550	1,550	950	1,100	1,425	950
SONES (dBA)	M511	15.9	12.0	8.1	8.1	0.8	1.2	6.4	0.8
DRIVE		DIRECT	DIRECT	DIRECT	DIRECT	DIRECT	DIRECT	DIRECT	DIRECT
MOUNTING		ROOF	ROOF	ROOF	ROOF	CEILING	CEILING	ROOF	CEILING
MANUFACTURER		GREENHECK	GREENHECK	GREENHECK	GREENHECK	GREENHECK	GREENHECK	GREENHECK	GREENHECK
TYPE .		CENTRIFUGAL	CENTRIFUGAL	CENTRIFUGAL	CENTRIFUGAL	CENTRIFUGAL	CENTRIFUGAL	CENTRIFUGAL	CENTRIFUGAL
MODEL NUMBER		G-143-VG	CUE-098-A	CUE-095-D	CUE-095-D	SP-A110	SP-A125	CUE-095-D	SP-A110
OPER. WT. (LBS)		73	48	27	27	15	15	23	15
START/STOP INTERLOCK WITH		SEE NOTE 10.	SEE NOTE 9.	SEE NOTE 7	SEE NOTE 9.	LIGHT CIRCUIT	LIGHT CIRCUIT	SEE NOTE 8.	MOTION SENSOR
ACCESSORIES		1, 2, 3	1, 2, 3, 6	1, 2, 3, 6	1, 2, 3, 6	1, 3, 4, 5	1, 3, 4, 5	1, 2, 3	1, 3, 4, 5

2.	18 GAUGE SLOPED ROOF CURB.
3	BACK DRAFT DAMPER

3. BACK DRAFT DAMPER.

4. INSULATED HOUSING.

5. FULL SIZE DISCHARGE TO ROOF CAP. 6. UNIT MOUNTED SPEED CONTROLLER. FIELD MOUNTED AND WIRED.

7. INTERLOCK START/STOP WITH AC UNIT SERVING THE AREA SERVED BY EXHAUST FAN. OPERATE FAN WITH AC UNIT SUPPLY FAN VIA RELAY INTERLOCK. 8. INTERLOCK START/STOP WITH WALL SWITCH ADJACENT TO LIGHT SWITCH. PROVIDE ETCHED PLASTIC LABEL INDICATING SERVICE.

9. INTERLOCK WITH MOTION SENSOR IN EACH ROOM SERVED BY FAN. WHEN MOTION SENSOR IN ANY SPACE IS SENSING OCCUPANT, FAN SHALL RUN.

FAN SHALL CONTINUE RUNNING FOR A MINIMUM PROGRAMMABLE TIME PERIOD OF FIFTEEN MINUTES

10. INTERLOCK WITH ADJUSTABLE STATIC PRESSURE SENSOR IN GYM, LOCATED BELOW CEILING. FANS SHALL MODULATE TO SATISFY STATIC PRESSURE SENSOR 0 - 10 VOLT SIGNAL.

DESIGNATION	CU B11, L8, M7	CU C11, C12,	
		D11, D12, E11, E12,	
		F11, F12, G13, G14,	
		N21, N22, P16, P17	
MCA	17	13	
VOLTS/PHASE	208/230/1	208/230/1	
ARI COOLING CAPACITY (MBH)	24	15	
SEER	17.5	16.0	
MANUFACTURER	MITSUBISHI	MITSUBISHI	
TYPE	AIR COOLED	AIR COOLED	
MODEL NUMBER	MUY-GA24NA	MUY-A15ANA	
OPER. WT (LBS)	117	88	
ACCESSORIES	1 THRU 4	1 THRU 4	

- 1. INSULATED SUCTION AND LIQUID LINE SET. 2. AUTO RESTART UPON POWER FAILURE.
- 3. ANTI SHORT CYCLE TIMER.
- 4. EXTEND CONTROL WIRING TO INDOOR UNIT.

(M) DUCT SENSOR. ——	<u> </u>	II5V BY ELEC. CONTRACTOR (E). 24 VOLT XFMR (M)
(M) SAMOD TERMINAL BOARD (BACK OF ROOM T-STAT).————	HHITE SENSOR WIRE WHITE SENSOR WIRE COMPONE COMPONE	DAMPER HOTOR

VAV DAMPER	
DIAGRAMMATIC	

USE RUSKIN MODEL FSD36 FOR RECTANGULAR OPENINGS	CSFM #3225-245;005 FOR FIRE #3230-245;109 FOR SMOKE
USE RUSKIN MODEL FSDR25 FOR ROUND OPENINGS	CSFM #3225-0245:107 FOR FIRE #3230-0245:108 FOR SMOK
120Y WIRING CONDUIT BY DIVISION 16. (TYP.)	
CONTROLLED CLOSURE DEVICE, ELECT. RESETABLE LINK.	LINE BLOCKING WITH SHEETROCK (TYP).
	SHEET METAL DUCT SEE PLAN FOR SIZE
DUCT ACCESS DOOR.	COMBINATION FIRE/ SMOKE DAMPER.
2 POSITION ELECTRIC ACTUATOR (FAIL CLOSED)	SHEET METAL SLEEVE THRU WALL
North C	BLOCKING (TYP.)
NOTES: I. I6 GA. L FRAME WELDED, BOLTED OR SCREWED TO ALL 4 BE DESIGNED TO LAP WALL NOT LESS THAN I". ROUGH OPE NET OPENING IN FRAME WALLS SHALL EXCEED NET O.D. OF DO NOT FASTEN SIDES OR TOP OF L TO WALL OR PARTITI	ENING IN MASONRY WALLS AND EDAMPER ASSEMBLY.
2. SEE DETAIL L/M-504 FOR CONTROLS.	
3. FIRE/SMOKE DAMPER SHALL BE STATE FIRE MARSHAL API STRICTLY PER MANUFACTURER'S PRINTED INSTRUCTIONS.	PROVED OR UL LISTED AND INSTALLE

1. WALL MOUNTED HARD WIRED PROGRAMMABLE CONTROLLER.

2. FIELD MOUNTED AND WIRED CONDENSATE PUMP.

3. UNIT IS POWERED FROM OUTDOOR UNIT.

MINI SPLIT FAN COIL SCHEDULE

FC B11, L8, M7

558 (HIGH SPEED)

0.00

0

24 / --

ARI

SEE NOTE 3

208/230-1

MITSUBISHI

MSY-GA24NA

1, 2, 3

FC C11, C12,

D11, D12, E11, E12,

F11, F12, G13, G14,

N21, N22, P16, P17

240 (LOW SPEED)

0.00

30

15/--

ARI

SEE NOTE 3

208/230-1

MITSUBISHI

MSZ-A15NA

23

1, 2, 3

DESIGNATION

SUPPLY AIR (CFM)

OUTSIDE AIR (CFM)

TOTAL (MBH) COOL / HEAT

EADB/EAWB/AMBIENT (F)

EXT. SP (IN WC)

SEER/HSPF

FULL LOAD AMPS

MANUFACTURER

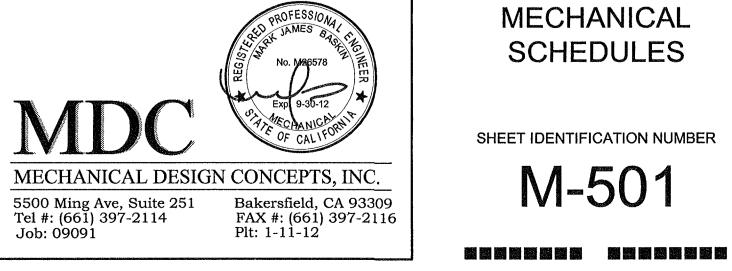
MODEL NUMBER

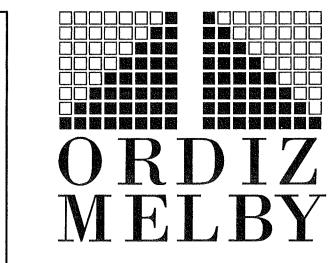
OPER. WT (LBS)

ACCESSORIES

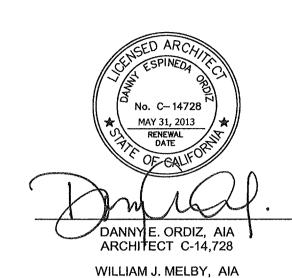
VOLTS/PHASE

SMOKE/FIRE DAMPER





ARCHITECTS, INC. 5500 MING AVENUE BAKERSFIELD, CALIFORNIA TELEPHONE (661) 832-5258 (661) 832-4291



ARCHITECT C-16,835

IDENTIFICATION STAMP DIVISION OF STATE ARCHITECT OFFICE OF REGULATION SERVICES APPL. #:02-112027

PTN # 63321-112

NEW ELEMENTARY SCHOOL 9801 HIGHLAND KNOLLS DR BAKERSFIELD CALIFORNIA 93306

NEW MIDDLE SCHOOL 4115 VINELAND ROAD BAKERSFIELD CALIFORNIA 93306

FOR:

BAKERSFIELD CITY 1300 BAKER STREET **BAKERSFIELD** CALIFORNIA

93305

	DATE	DESCRIPTION
\triangle		
<i>(</i> .)		

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