

ROOF MOUNTED GRAVITY INTAKE							
SYMBOL	CFM	MAX. STATIC (IN OF H <sub>2</sub> O)	PROVIDE ROOF CURB	SCREEN	MFG. (NOTE 1)	MODEL	REMARKS
IC-1	500	0.08"	YES	BIRD	GREENHECK	GRS1-15	SEE NOTES
IC-2	500	0.08"	YES	BIRD	GREENHECK	GRS1-15	SEE NOTES
IC-3	550	0.08"	YES	BIRD	GREENHECK	GRS1-15	SEE NOTES
IC-4	550	0.08"	YES	BIRD	GREENHECK	GRS1-15	SEE NOTES

- NOTES:  
 1. EQUALS ARE TWIN CITY, CAPTIVE-AIRE AND LOREN COOK.  
 2. PROVIDE ROOF CAP MANUFACTURERS ROOF CURB SLOPED TO MATCH THE ROOF PITCH.  
 3. PROVIDE BIRD SCREEN.

ROOF MOUNTED GRAVITY DISCHARGE							
SYMBOL	CFM	MAX. STATIC (IN OF H <sub>2</sub> O)	PROVIDE ROOF CURB	SCREEN	MFG. (NOTE 1)	MODEL	REMARKS
DC-1	760	0.10"	YES	BIRD	GREENHECK	GRSR-15	SEE NOTES
DC-2	740	0.10"	YES	BIRD	GREENHECK	GRSR-15	SEE NOTES
DC-3	760	0.10"	YES	BIRD	GREENHECK	GRSR-15	SEE NOTES
DC-4	140	0.10"	YES	BIRD	GREENHECK	GRSR-8	SEE NOTES
DC-5	195	0.10"	YES	BIRD	GREENHECK	GRSR-8	SEE NOTES
DC-6	380	0.10"	YES	BIRD	GREENHECK	GRSR-10	SEE NOTES

- NOTES:  
 1. EQUALS ARE TWIN CITY, CAPTIVE-AIRE AND LOREN COOK.  
 2. PROVIDE ROOF CAP MANUFACTURERS ROOF CURB SLOPED TO MATCH THE ROOF PITCH.  
 3. PROVIDE BIRD SCREEN.

REGISTER SCHEDULE										
SYMBOL	DESCRIPTION	NECK	FACE	RUN OUT	VOLUME DAMPER	MATERIAL	COLOR	MFG. (NOTE 1)	MODEL	REMARKS
A	LOUVER FACED SUPPLY	6"x6"	-	6"ø	NO	STEEL	VERIFY	TITUS	TDC	-
B	LOUVER FACED SUPPLY	9"x9"	-	8"ø	NO	STEEL	VERIFY	TITUS	TDC	-
C	LOUVER FACED SUPPLY	12"x12"	-	10"ø	NO	STEEL	VERIFY	TITUS	TDC	-
D	LOUVER FACED SUPPLY	12"x12"	-	12"ø	NO	STEEL	VERIFY	TITUS	TDC	-
E	LOUVER FACED SUPPLY	6"x6"	-	6"ø	YES	STEEL	VERIFY	TITUS	TDC	-
F	LOUVER FACED SUPPLY	9"x9"	-	8"ø	YES	STEEL	VERIFY	TITUS	TDC	-
G	LOUVER FACED SUPPLY	16"x16"	-	8"ø	YES	ALUMINUM	VERIFY	TITUS	PAR-AA	NOTE 2
H	LOUVER FACED SUPPLY	16"x16"	-	10"ø	YES	ALUMINUM	VERIFY	TITUS	PAR-AA	NOTE 2
I	LOUVER FACED SUPPLY	16"x16"	-	12"ø	YES	ALUMINUM	VERIFY	TITUS	PAR-AA	NOTE 2
RA	LOUVERED GRILLE	6"x6"	-	6"ø	NO	STEEL	VERIFY	TITUS	350RL	-
RB	LOUVERED GRILLE	10"x10"	-	8"ø	NO	STEEL	VERIFY	TITUS	350RL	-
RC	LOUVERED GRILLE	12"x12"	-	10"ø	NO	STEEL	VERIFY	TITUS	350RL	-
RD	LOUVERED GRILLE	14"x14"	-	12"ø	NO	STEEL	VERIFY	TITUS	350RL	-
RE	LOUVERED GRILLE	18"x18"	-	14"ø	NO	STEEL	VERIFY	TITUS	350RL	-
RF	LOUVERED GRILLE	14"x14"	-	-	YES	STEEL	VERIFY	TITUS	350RL	-
RG	LOUVERED GRILLE	36"x18"	-	-	YES	STEEL	VERIFY	TITUS	350RL	-
RH	EGG-CRATE GRILLE	18"x18"	-	14"ø	YES	ALUMINUM	VERIFY	TITUS	50F	-
RI	EGG-CRATE GRILLE	10"x10"	-	8"ø	YES	ALUMINUM	VERIFY	TITUS	50F	-

- NOTES:  
 1. EQUALS ARE METAL-AIRE, PRICE AND KRUEGER.  
 2. DIRECTIONAL THROW IS NOT ALLOWED IN KITCHEN NEAR HOODS.

VENTILATION FAN SCHEDULE												
SYMBOL	DESCRIPTION	CFM SETTING	CFM REQ'D @ LISTED S.P.	S.P. (w.g.)	VOLT	PHASE	WATTS	MOUNTING	MFG. (NOTE 1)	MODEL	CONTROLS	REMARKS
F-1	CABINET FAN	140	170	3/8"	120	1	90	ATTIC IN-LINE	GREENHECK	CSP-A200	CONTINUOUS	NOTE 2
F-2	CABINET FAN	380	460	3/8"	120	1	90	ATTIC IN-LINE	GREENHECK	CSP-A700	CONTINUOUS	NOTE 2
F-3	CABINET FAN	73	70	1/4"	120	1	90	CEILING	GREENHECK	SP-990	SWITCHED SEPARATELY	-
F-4	CABINET FAN	55	55	1/4"	120	1	90	ATTIC IN-LINE	GREENHECK	SP-990	SWITCHED SEPARATELY	-
F-5	CABINET FAN	73	70	1/4"	120	1	90	CEILING	GREENHECK	SP-990	SWITCHED SEPARATELY	-

- NOTES:  
 1. EQUALS ARE TWIN CITY, CAPTIVE-AIRE, PENNBARRY AND LOREN COOK.  
 2. PROVIDE VARIABLE SPEED CONTROL.

KITCHEN FAN SCHEDULE										
SYMBOL	DESCRIPTION	CFM SETTING	S.P. (w.g.)	VOLT	PHASE	MOUNTING	MFG. (NOTE 1)	MODEL	REMARKS	
KF-1	TYPE I HOOD EXHAUST FAN	2,975	VERIFY	208	3	VERIFY	ROOF	CAPTIVE-AIRE	VERIFY	SEE NOTES
KF-2	MAKE-UP AIR FAN	2,375	VERIFY	208	3	VERIFY	ROOF	CAPTIVE-AIRE	VERIFY	SEE NOTES
KF-3	TYPE II HOOD EXHAUST FAN	500	VERIFY	208	3	VERIFY	ROOF	CAPTIVE-AIRE	VERIFY	SEE NOTES

- NOTES:  
 1. PROVIDE ROOF CURB.  
 2. ALL FANS SHALL EITHER BE BELT DRIVE OR VARIABLE SPEED DRIVE.  
 3. THE KITCHEN HOOD FAN SCHEDULE IS PROVIDED FOR A BASIS OF DUCTING DESIGN AND KITCHEN AIR CONDITIONING DESIGN ONLY. HOOD DESIGN AND AIR FLOWS SHALL BE AS PER THE HOOD MANUFACTURER. THE DUCT SIZES WILL NEED TO BE ADJUSTED TO REFLECT THE HOOD MANUFACTURERS FINAL AIR FLOWS. DO NOT ORDER FANS OR CONSTRUCT DUCT UNTIL THE KITCHEN CONTRACTOR VERIFIES THE FAN REQUIREMENTS.  
 4. TYPE I HOOD EXHAUST FAN SHALL BE UL 702 LISTED.  
 5. FANS SHALL BE ALL ALUMINUM CONSTRUCTION.  
 6. KITCHEN HOOD SUPPLY AND EXHAUST FANS SHALL BE INTERLOCKED TO RUN AT THE SAME TIME.  
 7. DISHWASHER HOOD FAN SHALL OPERATE ON A TIMER WHEN DISHWASHER DOOR IS OPEN.  
 8. MAKE-UP AIR FANS SHALL HAVE INTAKE 10' FROM ALL BUILDING VENTS AND EXHAUSTS. EITHER LOCATE FAN 10' AWAY OR PROVIDE INTAKE OFFSET TO GET 10' SEPARATION. COORDINATE WITH GENERAL CONTRACTOR FOR INSTALLATION REQUIREMENTS.

SPLIT SYSTEM UNIT SCHEDULE																													
COMPRESSOR											AIR HANDLING UNIT (FURNACE)							COIL		GENERAL									
SYMBOL	COOLING CAPACITY (TONS)	ELECTRIC				MFG.	MODEL	SYMBOL	TYPE	HEATER			ELECTRIC				FAN CFM	FRESH AIR INTAKE (CFM)	FRESH AIR INTAKE DUCT SIZE	ESP (IN OF H2O)	MODEL	TOTAL COOLING (BTU/HR)	SENSIBLE COOLING (BTU/HR)	SEER	REMARKS				
		VOLT	PHASE	MCA	MOCP					GAS INPUT (BTU/HR)	GAS OUTPUT (BTU/HR)	AFUE	VOLT	PHASE	MCA	MOCP										MFG.	MODEL		
CC-1	5 TON	208	1	31	50	TRANE	4TR4060L1	AHU-1	HORIZ.	100,000	96,000	96%	120	1	14.4	15	TRANE	S9X2C100U5PSA	1,900	500 NOTE 10	12"ø	0.5"	4TXCD0100S3	58,275	40,907	15.0	SEE NOTES		
CC-2	2 TON	208	1	14	25	TRANE	4TR4024L1	AHU-2	HORIZ.	40,000	38,000	96%	120	1	7.8	15	TRANE	S9X2B040U2PSA	800	135	8"ø	0.5"	4TXCB0030S3	24,285	17,106	15.0	SEE NOTES		
CC-3a	5 TON	208	1	31	50	TRANE	4TR4060L1	AHU-3a	HORIZ.	100,000	96,000	96%	120	1	14.4	15	TRANE	S9X2C100U5PSA	1,900	300	10"ø	0.5"	4TXCD0100S3	58,275	40,907	15.0	SEE NOTES		
CC-3b	5 TON	208	1	31	50	TRANE	4TR4060L1	AHU-3b	HORIZ.	100,000	96,000	96%	120	1	14.4	15	TRANE	S9X2C100U5PSA	1,900	300	10"ø	0.5"	4TXCD0100S3	58,275	40,907	15.0	SEE NOTES		
CC-4	NOT USED							AHU-4																					
CC-5	3½ TON	208	1	22	35	TRANE	4TR4043L1	AHU-5	HORIZ.	60,000	58,000	96%	120	1	11.3	15	TRANE	S9X2B060U4PSA	1,400	500 NOTE 10	12"ø	0.5"	4TXCB0060S3	40,055	28,708	15.0	SEE NOTES		
CC-6	2½ TON	208	1	17	25	TRANE	4TR4030L1	AHU-6	HORIZ.	40,000	38,000	96%	120	1	9.3	15	TRANE	S9X2B040U3PSA	1,000	400 NOTE 10	10"ø	0.5"	4TXCB0030S3	28,230	20,466	15.0	SEE NOTES		
CC-7	3 TON	208	1	18	30	TRANE	4TR4036L1	AHU-7	HORIZ.	60,000	58,000	96%	120	1	9.3	15	TRANE	S9X2B060U3PSA	1,200	150	8"ø	0.5"	4TXCB0040S3	33,800	25,300	15.0	SEE NOTES		

- NOTES:  
 1. PROVIDE EMERGENCY SHUTDOWN SWITCHES AND PROGRAMMABLE THERMOSTATS. THERMOSTATS SHALL HAVE PASSCODE PROTECTION SO SETTINGS CANNOT BE TAMPED WITHOUT ENTERING A REPROGRAMMABLE CODE. PROVIDE A PERMANENT PLACARD NEAR EACH THERMOSTAT(S) SHOWING THE LOCAL BUILDING FLOOR PLAN, THE AREAS THAT EACH THERMOSTAT CONTROLS AND THE LOCATION OF EACH THERMOSTAT'S SWITCH IF THE SWITCH IS REMOTELY LOCATED.  
 2. PROVIDE 4" DP MAX (MERV 6) FILTERS BY AIRGUARD AND FILTER RACKS AT UNITS. PROVIDE SMOOTH TRANSITION FROM FILTER RACK TO AHU INTAKE AND TO RETURN DUCT SHOWN ON PLANS. THE MINIMUM FILTER SIZES SHALL BE 24"x24" FOR 3 TON AND SMALLER AHU'S, 24"x30" FOR 3½ AND 5 TON AHU'S. MAX INITIAL PRESSURE DROP SHALL BE ¼" OF WATER COLUMN. SEE AHU FILTER DETAIL.  
 3. PROVIDE DRIP PANS WITH FLOAT SWITCHES.  
 4. PROVIDE CONCRETE PADS FOR COMPRESSORS AND ANCHOR COMPRESSORS TO PAD.  
 5. PROVIDE FRENCH DRAINS FOR CONDENSATE LINES (SEE FRENCH DRAIN DETAIL).  
 6. OVERSIZE REFRIGERANT LINE AS PER MFG. INSTRUCTIONS WHEN REQUIRED.  
 7. THE CONTRACTOR SHALL INSTRUCT THE OWNER TO KEEP AHU FANS RUNNING AT ALL TIMES.  
 8. ALL COMPRESSORS SHALL HAVE TIME DELAY RELAYS SET AT DIFFERENT STARTING TIMES.  
 9. PROVIDE LOW AMBIENT CONTROL TO ALLOW THE COMPRESSOR TO COOL AT 32°F.  
 10. THE OUTSIDE AIR FOR THIS UNIT COMES IN THROUGH AN ERV OR MAKEUP AIR UNIT. SEE PLANS FOR DUCTING.

PACKAGE HEAT PUMP SCHEDULE																
SYMBOL	COOLING CAPACITY (TONS)	COODING STAGES	STRIP HEATER		ELECTRIC				DIRECTION	MFG.	MODEL	FAN CFM	OUTSIDE AIR INTAKE	SEER/EER	HSPF/COP	REMARKS
			CAPACITY	STAGES	VOLT	PHASE	MCA	MOCP								
RTU-1	5		VERIFY	-	208		VERIFY	VERIFY	DOWN	CARRIER	50EZ-AB0	1,900	500 NOTE 4	14.3 SEER	3.50 COP	SEE NOTES

- NOTES:  
 1. EXISTING UNITS TO REMAIN AND BE REUSED.  
 2. PROVIDE SOLID STATE PROGRAMMABLE THERMOSTAT WITH 5°F DEADBAND. SET BACK CONTROLS (55°F HEAT AND 65°F COOL) R TIME OF WEEK. CAPABLE OF 2 HOUR TEMPORARY MANUAL OVERRIDE AND 10 HOUR BACKUP.  
 3. PROVIDE FRENCH DRAINS PER STATE CODE FOR CONDENSATE DISCHARGE.  
 4. PROVIDE MANUFACTURER RECOMMENDED CLEARANCES AROUND ALL INDOOR AND OUTDOOR UNITS.  
 5. CONSULT WITH COMPRESSOR MANUFACTURER FOR THE CORRECT SIZING OF REFRIGERANT LINES. PROVIDE MANUFACTURER RECOMMENDED EQUIPMENT FOR ANY LONG REFRIGERANT LINE LENGTHS.  
 6. THE MECHANICAL CONTRACTOR SHALL PROVIDE AND INSTALL ALL WIRING AND CONNECTIONS BETWEEN THE OUTDOOR UNIT AND THE INDOOR UNIT.

PACKAGE TERMINAL HEAT PUMP/AC SCHEDULE													
SYMBOL	COOLING CAP	VOLT	PHASE	MCA	STRIP	BREAKER	CFM	ESP (IN OF H2O)	FRESH AIR	MANUFACTURER	MODEL	EER/COP	REMARKS
TW-1	9,000 BTU/HR	208	1	19.9	2.79kW @ 208V	20/2	375 CFM	0.25"	60 CFM	FRIEDRICH	VHA09K	10.5/3.1	SEE NOTES

- NOTES:  
 1. PROVIDE ARCHITECTURAL GRILLE.  
 2. PROVIDE CORROSION RESISTANT CASE AND WALL PLENUM. COORDINATE WITH GC FOR PROPER PLENUM SELECTION FOR INSTALLATION.  
 3. PROVIDE STANDARD SIZE DISPOSABLE FILTER AT UNIT.  
 4. PROVIDE TIME DELAY RELAY SET FOR DIFFERENT TIMES.  
 5. PROVIDE INTERNAL CONDENSATE DRAINS WITH TRAP. USE CPVC PIPE (SUITABLE FOR PLENUM USE) AND INSULATE LINES. PROVIDE AUXILIARY DRAIN PAN WITH WATER LEVEL DETECTING DEVICE CONFORMING TO UL 508.  
 6. SET UNIT TO RUN WHEN HEATING OR COOLING IS CALLED FOR.  
 7. PROVIDE WIRED REMOTE AUTO-CHANGEOVER THERMOSTAT (VERIFY COLOR WITH OWNER). VERIFY PREFERRED LOCATION WITH OWNER.  
 8. THE UNIT BASE PLATFORM SHALL BE CONSTRUCTED AS PER THE MANUFACTURERS REQUIREMENTS AND CONSTRUCTED OF MATERIALS SUITABLE FOR PLENUM USE.  
 9. PROVIDE MANUFACTURERS ACCESS PANEL WITH RETURN GRILLE.

DUCTLESS SPLIT SYSTEM SCHEDULE															
COMPRESSOR						AIR HANDLING UNIT						GENERAL			
SYMBOL	MFG.	MODEL #	ELECTRIC			SYMBOL	MFG.	MODEL #	MOUNTING	COOLING (BTU/HR)	HEATING (BTU/HR)	SEER	REMARKS		
			VOLT	PHASE	MCA									MOCP	
DU-1	DAIHATSU	PVY-A129KA7	208	1ø	11	15	DAHU-1	MITSUBISHI	PKA-A12HA7	WALL	12,000	N/A	20.8	SEE NOTES	

- NOTES:  
 1. PROVIDE SOLID STATE PROGRAMMABLE THERMOSTAT WITH 5°F DEADBAND. SET BACK CONTROLS (50°F HEAT AND 65°F COOL) FOR TIME OF DAY AND DAY OF WEEK. CAPABLE OF 2 HOUR TEMPORARY MANUAL OVERRIDE AND 10 HOUR BACKUP.  
 2. PROVIDE CONCRETE PAD AND ANCHOR COMPRESSOR TO PAD.  
 3. PROVIDE FRENCH DRAINS PER STATE CODE FOR CONDENSATE DISCHARGE.  
 4. PROVIDE MANUFACTURER RECOMMENDED CLEARANCES AROUND ALL INDOOR AND OUTDOOR UNITS.  
 5. CONSULT WITH COMPRESSOR MANUFACTURER FOR THE CORRECT SIZING OF REFRIGERANT LINES. PROVIDE MANUFACTURER RECOMMENDED EQUIPMENT FOR ANY LONG REFRIGERANT LINE LENGTHS.  
 6. THE MECHANICAL CONTRACTOR SHALL PROVIDE AND INSTALL ALL WIRING AND CONNECTIONS BETWEEN THE OUTDOOR UNIT AND THE INDOOR UNIT.

ENERGY RECOVERY UNIT SCHEDULE													
SYMBOL	DESCRIPTION	MOUNTING	MCA (A)	MOCP (A)	VOLT/PHASE	MFG.	MODEL	EXHAUST CFM	FRESH AIR CFM	EXHAUST E.S.P.	MINIMUM ENTHALPY RECOVERY RATIO (NOTE 2)	REMARKS	
ERV-1	TOTAL ENERGY RECOVERY UNIT	ATTIC	20.5	25	120/1	GREENHECK	MINIVENT-750-VG	760	500	0.40"	80%	SEE NOTES	
ERV-2	TOTAL ENERGY RECOVERY UNIT	ROOF	20.5	25	120/1	GREENHECK	ERV-10-20L	500	500	0.40"	75%	SEE NOTES	
ERV-3	TOTAL ENERGY RECOVERY UNIT	ATTIC	20.5	25	120/1	GREENHECK	MINIVENT-750-VG	740	500	0.40"	80%	SEE NOTES	
ERV-4	TOTAL ENERGY RECOVERY UNIT	ATTIC	20.5	25	120/1	GREENHECK	MINIVENT-750-VG	760	400	0.40"	80%	SEE NOTES	

- NOTES:  
 1. PROVIDE A STRAIGHT RUN OF DUCT FOR UNIT INLETS AND OUTLETS AS PER MANUFACTURERS RECOMMENDATIONS.  
 2. THE MINIMUM ENTHALPY RECOVERY RATIO (SENSIBLE AND LATENT) SHALL BE BASED ON THE FOLLOWING CONDITIONS:  
 SUMMER CONDITIONS: OUTSIDE AIR INLET 95°Fdb/80°Fwb, EXHAUST AIR INLET 75°Fdb/55°Fwb.  
 WINTER CONDITIONS: OUTSIDE AIR INLET 25.0°Fdb, EXHAUST AIR INLET 75°Fdb/35°Fwb.  
 3. COORDINATE WITH GC EARLY IN PROJECT FOR ADEQUATE ATTIC ACCESS FOR THESE UNITS.  
 4. EACH ENERGY RECOVERY UNIT SHALL BE SHUTDOWN BY THE EMERGENCY SHUTDOWN SWITCH OF THE AHU IT SERVES.  
 5. PROVIDE MERV 6 FILTERS AT THE UNIT OUTSIDE AIR INTAKE.  
 6. PROVIDE ROOF CURB FOR ERV-2.  
 7. ALL ERV'S SHALL OPERATE CONTINUOUSLY EXCEPT FOR ERV-2. ERV-2 SHALL OPERATE DURING OCCUPIED HOURS. COORDINATE WITH OWNER FOR OCCUPIED HOURS.

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**PruittHealth**  
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Project Reference Numbers  
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Drawn By:

REVISIONS

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 PERMIT SET 05/22/19

MECHANICAL SCHEDULES