All controls wiring shall be in EMT conduit with MC flex whips (interior) Sealtight (exterior) no longer than 60" to all					
devices, equipment, etc. The Controls Contractor shall furnish and install all wall boxes and EMT conduit, with pull string,		FAN SCHEDULE			
for all controls wiring including drops to thermostats, sensors and other wall mounted devices.	Mark	EF-01	EF-02	EF-0	
	Drive	Direct	Direct	Direc	
Heating set points shall be 71°F during Occupied periods and 65°F during Unoccupied periods with a +/- 3°F adjustment.	CFM	75	75	75	
Cooling set points shall be 72°F during Occupied periods and 80°F during Unoccupied periods with a +/- 3°F adjustment.	Watts	31	31	31	
All set points shall be adjustable.	Motor HP	-	-	-	
	Motor RPM	-	-	-	
<u>HP-01,02</u>	Fan RPM	759	759	759	
	Static Pressure, In WC	0.25	0.25	0.25	
The System shall be controlled by a Honeywell 8000 Vision Pro with occupancy contacts and averaging sensors as	Sones	0.9	0.9	0.9	
shown on the Drawings. The occupancy contacts will be used as pilot relay to enable a power duty relay to enable /	Volt/Phase	115 / 1	115 / 1	115 /	
disable the return and outside air actuators. This Contractor shall provide a transformer with appropriate VA to power the	Basis of Design				
return and outside air dampers. The unit's transformer will not be allowed to be used to power the damper actuators. The	Manufacturer	Cook	Cook	Coo	
thermostats occupancy contacts will not be allowed to be used to directly enable / disable the damper actuators. The	Model	GC-148	GC-148	GC-1	
System shall be enabled during occupied periods. The unit's factory controls shall enable the unit in the heating or	Accessories	1, 2, 3, 4, 5	1, 2, 3, 4, 5	1, 2, 3,	
cooling mode as required to maintain the space temperature set point(s) as determined by the space temperature sensor. The fan shall be enabled whenever there is a call for heating or cooling and the outside air damper shall open from	Notes	Α	Α	Α	
sensor. The lan shall be chabled whenever there is a call for healthy of cooling and the outside all damper shall open from					

- Provide speed control mounted on fan

23.0
1.7 - 10.9
1.7 - 15.0
11.0
208/1
10
15
DSS-IU-01
Fujitsu
9RLFW
DSS-OU-01
Fujitsu
9RLFW
1
A, B

CG-1

Square Louvered Face Ceiling Grille

Square Neck, 35° Deflection

Surface

Aluminum

Match Ceiling / Wall Color

Type 1

B) Line set and condensate piping shall be located within the wall.

C)	Both the liquid and vapor lines will be insulated 3/4" Armaflex,
	non-split seam insulation. Insulation shall be mitered and glued.

FAN SCHEDULE				
Mark	EF-01	EF-02	EF-03	EF-04
Drive	Direct	Direct	Direct	Direct
CFM	75	75	75	75
Watts	31	31	31	31
Motor HP	-	-	-	-
Motor RPM	-	-	-	-
Fan RPM	759	759	759	759
Static Pressure, In WC	0.25	0.25	0.25	0.25
Sones	0.9	0.9	0.9	0.9
Volt/Phase	115 / 1	115 / 1	115 / 1	115 / 1
Basis of Design				
Manufacturer	Cook	Cook	Cook	Cook
Model	GC-148	GC-148	GC-148	GC-148
Accessories	1, 2, 3, 4, 5	1, 2, 3, 4, 5	1, 2, 3, 4, 5	1, 2, 3, 4,
Notes	Α	Α	Α	В

- Provide white deluxe aluminum grille.

Total Capacity Range, MBH	1.7 - 10.9		
Heat Pump Heating Range, MBH (@ 47°F)	1.7 - 15.0		
HSPF	11.0		
Electrical			
Voltage / Phase	208/1		
MCA	10		
MOCP	15		
Evaporator			
Mark	DSS-IU-01		
Basis of Design, Manufacturer	Fujitsu		
Model	9RLFW		
leat Pump			
Mark	DSS-OU-01		
Basis of Design, Manufacturer	Fujitsu		
Model	9RLFW		
Options	1		
Notes	A, B		
Options:			
) Provide low ambient controls and trim kit.			

A) Indoor Unit receives power from Outdoor Unit.

Exposed piping will not be allowed.

	FAN S	CHEDU
Mark	EF-01	EF-
Drive	Direct	Dir
CFM	75	7
Watts	31	3
Motor HP	_	

- Provide spring vibration isolator kit Provide service disconnect switch.
- Provide backdraft damper.

A. Fan shall be controlled by associated room's light occupancy switch. . Fan shall be enabled to run continuously.

Artificett.				
Mechanical Contractor:				
System Mark	1			
System Manufacturer	1			
System Model Number System Serial Number	1			
	Heat Pump	Gas	Hot Water	Electric
Heating Type	Hot Gas	Hot Water	Electric	N/A
Reheat Type	Tiot Gas	not water	LIECUIC	NYA
Outdoor Temperature @ Outdoor Coil				
Outdoor Coil Leaving Temperature				
Indoor Temperature				
ndoor Relative Humidity				
Mixed Air Temperature Entering Indoor Coil				
Supply Air Temperature @ The Unit Discharge				
Supply Air Temperature @ The Farthest Supply Grille				
Refrigerant Type				
Suction Pressure				
Suction Line Temperature @ Compressor				
Discharge Pressure				
Discharge Line Temperature @ Compressor				
Liquid Line Pressure				
Liquid Line Temperature @ Condenser				
Superheat				
Subcooling				
Discharge Superheat				
Heating Entering and Leaving Air Temperature				
Inlet Gas Pressure				
Manifold Gas Pressure				
Electric Heat kW				
Amps per Heating Element				
Total Electric Heat Amps				
Discharge Air Temperature with Reheat Operational				
Supply Air CFM				
Return Air CFM (Occ, UnOcc)				
	1		Γ	

DX System Analysis Form

This shall be filled out in heating, cooling & dehumidification modes for every piece of DX equipment. Outdoor ambient shall be 80°F minimum for cooling readings and 50°F or below for heating readings.

Outside Air CFM (Occ, UnOcc)

ROOF CAP SCHEDULE			
RC-01			
Exhaust			
300			
0.852			
1.38			
0.05			
16 Ga. Marine Alloy Aluminum			
Kynar			
PR-12			

B Provide condensate overflow pan with liquid switch, 3/4" ball valve

2" Filter housing with piano hinge and cam lock and gasketed seal

Outside Air CFM

EAT db./wb., °F

LAT db./wb., °F

ir Handling Unit

Manufacturer

Supply Air, CFM

Auxiliary Electric Heat

KW (240/3, 208/3)

Heater + Motor MCA

Heater + Motor Max OCP

Heat Pump, @ 47°F MBH

1) Single point wiring connection

Capacitor / Relay Start Assist

7) High and Low pressure switches

with threaded nipple and cap

D Install return duct mounted smoke detector

Model

upply Fan

Motor HP

Volt/Phase

Volt/Phase

Volt/Phase

Manufacturer

Heat Pump

Mark

HSPF

MCA

Max OCP

Volt/Phase

2) Hard shut off TXV 3) ECM blower motor

6) Evaporator freeze stat

A See Sequence of Control

4) Hail Guard

SEER / EER @ ARI

Total Net Capacity at ARI, MBH

External Static Pressure, In. WG

ndoor Unit Single Point Power Electrical

Sensible Net Capacity at ARI, MBH

295

0.5

0.5

55.5

40.0

60

Minimum

1) Provide prefabricated roof curb with wood nailer and thermal insulation. See Architectural Drawings for roof slope and construction.

Submit color chart for architect's selection of the Kynar finish. Finish selection shall be for the cap and roof curb.) Provide 1/2" x 1/2" birdsceen

EF-04 Fan shall run continuous. Provide switch type service disconnect at the fan.

Whenever the unit is disabled, the outside air damper shall be fully closed.

Unit shall be controlled via factory provided wall mounted wired room thermostat.

when in unoccupied time period.

EF-01,02,03

its closed position to its minimum set point position while the return air damper closes accordingly for proper air balance.

The space temperature sensor shall also enable the unit during unoccupied periods in the setback mode. The unit shall be enabled in the cooling mode whenever the space temperature exceeds 80°F to maintain the space temperature set

point. The unit shall be enabled in the heating mode whenever the space temperature falls below 65°F to maintain the space temperature set point. When the unit is enabled in the night/setback mode, the fan shall be enabled when the unit is either heating or cooling and the outside air damper shall be fully closed at all times in unoccupied mode. Space temperature sensor shall be integrated into the room light system occupancy switch to enable system in occupied mode

The outside air damper shall be fully closed and the return damper open when the fan is disabled.

Fan shall be enabled by the room's light switch. Provide switch type service disconnect at the fan.



DRAWING TITLE