

**Carrier**  
Air Conditioning



**MAUI ARMY NATIONAL GUARD  
PUUNENE ARMORY  
PUUNENE, MAUI, HAWAII  
DAGS JOB NO. 15-14-7103**

**OPERATION & MAINTENANCE SUBMITTALS**

**JULY 15, 2004**

MECHANICAL CONTRACTOR

DORVIN D. LEIS COMPANY, INC.  
202 LALO PLACE  
KAHULUI, HAWAII 96732

MECHANICAL ENGINEER

KENNETH THOM ASSOCIATES, LTD.  
1831 YOUNG STREET, SECOND FLOOR  
HONOLULU, HAWAII 96826

SUBMITTED BY:

ERIC F. S. LUM

**Carrier Hawaii**  
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94-522 Kau Street  
Waipahu, Hawaii 97697



## **EQUIPMENT COVERED**

### **CH-1 & 2: CARRIER MODEL 30RAN025D-E6-1KD (TYPICAL OF 2)**

- **NOTE - CARRIER MODEL 30GTN025 SPECIFIED IS OBSOLETE AS IS REPLACED BY CARRIER MODEL 30RAN025**
- “AQUASNAP” PACKAGED AIR COOLED WATER CHILLER
- SIZE 025, NOMINAL 25 TON, R-22, 460V/3/60HZ
- GALVANIZED STEEL FRAME AND CABINET WITH BAKED ENAMEL FINISH CAPABLE OF WITHSTANDING 500-HOUR SALT SPRAY TEST **IN ACCORDANCE WITH ASTM B117**
- AMERON PSX-700 COATING OF UNIT CABINET
- DIRECT DRIVEN 11-BLADE AIRFOIL CROSS SECTION REINFORCED POLYMER CONDENSER FANS WITH TEFC MOTOR
- SCROLL COMPRESSOR
- COPPER TUBE/ALUMINUM FIN CONDENSER COIL WITH FINS FACTORY COATED WITH AN EPOXY-PHENOLIC BASED (E-COAT) CORROSION COATING
- MICROPROCESSOR-BASED “COMFORTLINK” CONTROLS **WITH SCROLLING MARQUEE DISPLAY**
- CHILLED WATER FLOW SWITCH
- ACROSS-THE-LINE START
- **VARIANCE** - OPTIONAL INTEGRAL HYDRONIC PUMPING PACKAGE WITH THE FOLLOWING:
  - 3.0 HP CHILLED WATER PUMP WITH TEFC MOTOR
  - NPT FIELD PIPING CONNECTIONS
  - Y-STRAINER WITH BLOW-DOWN
  - EXPANSION TANK (**NOTE – FACTORY INSTALLED EXPANSION TANK MUST BE REMOVED AND DISCARDED IN FAVOR OF A CENTRAL FIELD INSTALLED EXPANSION TANK, AS SHOWN ON CONTRACT DRAWINGS. CENTRAL EXPANSION TANK BY OTHERS**)
  - PRESSURE GAUGES
  - AIR VENT
  - DRAIN PLUG
  - FLOW SWITCH
  - “CIRCUIT SETTER” FLOW BALANCING VALVE
- OPTIONAL FACTORY INSTALLED MICROPROCESSOR-CONTROLLED MINIMUM LOAD CONTROL (ALLOWS OPERATION DOWN TO A MINIMUM OF 39% CAPACITY)
- **VARIANCE – CONTRACT DOCUMENTS SPECIFIED CARRIER MODEL 30GTN025 WITH OPTIONAL FACTORY SOUND ATTENUATION PACKAGE. THE SOUND ATTENUATION PACKAGE SPECIFIED BY THE ENGINEER WOULD NOT HAVE**

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**BEEN AVAILABLE FROM CARRIER FOR THIS SIZE CHILLER. THE SOUND ATTENUATION PACKAGE WAS ONLY AVAILABLE ON CHILLERS 40 TONS AND LARGER. THE SOUND DATA FROM THE ORIGINAL CARRIER MODEL 30GTN025 AND THE NEW REPLACEMENT CARRIER MODEL 30RAN025 ARE INCLUDED FOR COMPARISON. PLEASE NOTE THE STANDARD 30RAN CHILLER IS QUIETER THAN THE SPECIFIED 30GTN CHILLER. THE 30RAN CHILLER IS ALREADY DESIGNED WITH LOW NOISE GENERATING CONDENSER FANS STANDARD FROM THE FACTORY.**

- **CALDYN "9842" SERIES SEISMIC PROTECTED, HOT DIPPED GALVANIZED STEEL SPRING ISOLATORS, HYPALON COATED, 1" DEFLECTION**

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## **EQUIPMENT COVERED**

### **AHU-A1: CARRIER MODEL 39LD10GA-AR-CJJ-19**

- VERTICAL, FLOOR MOUNTED, CENTRAL STATION AIR HANDLING UNIT
- PRE-PAINTED GALVANIZED STEEL SINGLE WALL
- 1" THICK, 1.5# DENSITY ARMSTRONG "TUFFSKIN II" INSULATION
- HINGED DOUBLE WALL INSULATED ACCESS DOORS
- MIXING BOX SECTION WITH TOP & REAR INLET, & DAMPERS (**NOTE - CONTRACTOR MUST REMOVE REAR DAMPERS & SEAL OFF REAR RETURN AIR CONNECTION**)
- FLAT FILTER SECTION
- 2" THICK, 30% EFFICIENCY PLEATED MEDIA FILTERS
- 6-ROW/11 FPI COPPER TUBE/ALUMINUM FIN CHILLED WATER COIL, LEFT HAND COIL AND DRAIN CONNECTIONS (**HAND IS DETERMINED LOOKING IN THE DIRECTION OF AIRFLOW. CONTRACTOR TO VERIFY COIL CONNECTION AND CONDENSATE DRAIN (CD) CONNECTION HAND**)
- ½" DIAMETER TUBES WITH 0.016" WALL THICKNESS
- **VARIANCE - BLYGOLD "POLUAL" COATING OF EVAPORATOR COIL DELETED PER DAGS MEMORANDUM, DATED 09/11/2003. CREDIT TO BE PROVIDED TO THE STATE.**
- SLOPED STAINLESS STEEL DOUBLE WALL CONDENSATE DRAIN PAN
- FACTORY INSTALLED UV-C LIGHTS (LOCATED IN VERTICAL COIL SECTION), COMPLETE WITH EMITTERS, DOOR INTERLOCK SWITCH AND DISCONNECT, 115V/1/60HZ (**REQUIRES SEPARATE 115V POWER SUPPLY**)
- FORWARD CURVED FAN WITH LEFT HAND ACCESS (**CONTRACTOR TO VERIFY HAND CONNECTIONS BEFORE ORDERING. HAND IS DETERMINED LOOKING IN THE DIRECTION OF AIRFLOW**)
- 5.0 HP HIGH EFFICIENCY ODP FAN MOTOR, 1.3 SERVICE FACTOR
- 460V/3/60HZ
- TOSHIBA S9 SERIES 5.0 HP VFD WITH NEMA 1 EXTENDER BOX, CIRCUIT BREAKER, ISOLATED MANUAL BYPASS, THERMAL OVERLOAD, 3% IMPEDENCE LINE REACTOR, 460V/3/60HZ
- **CALDYN "9842" SERIES SEISMIC PROTECTED, HOT DIPPED GALVANIZED STEEL SPRING ISOLATORS, HYPALON COATED, 1" DEFLECTION**



## **EQUIPMENT COVERED**

### **SF-A1: CARRIER MODEL 39LG08AA----ASS-A9**

- HORIZONTAL CENTRAL STATION AIR HANDLING UNIT
- PRE-PAINTED GALVANIZED STEEL SINGLE WALL
- 1" THICK, 1.5# DENSITY ARMSTRONG "TUFFSKIN II" INSULATION
- HINGED DOUBLE WALL INSULATED ACCESS DOORS
- FLAT FILTER SECTION
- 2" THICK, 30% EFFICIENCY PLEATED MEDIA FILTERS
- FORWARD CURVED FAN WITH RIGHT HAND ACCESS (**CONTRACTOR TO VERIFY HAND CONNECTIONS BEFORE ORDERING. HAND IS DETERMINED LOOKING IN THE DIRECTION OF AIRFLOW**)
- 2.0 HP HIGH EFFICIENCY ODP FAN MOTOR, 1.3 SERVICE FACTOR
- 460V/3/60HZ
- CALDYN "HH" SERIES 1.5" DEFLECTION SPRING/NEOPRENE HANGERS

### **SF-A2: CARRIER MODEL 39LG08AA----ASS-A9**

- HORIZONTAL CENTRAL STATION AIR HANDLING UNIT
- PRE-PAINTED GALVANIZED STEEL SINGLE WALL
- 1" THICK, 1.5# DENSITY ARMSTRONG "TUFFSKIN II" INSULATION
- HINGED DOUBLE WALL INSULATED ACCESS DOORS
- FLAT FILTER SECTION
- 2" THICK, 30% EFFICIENCY PLEATED MEDIA FILTERS
- FORWARD CURVED FAN WITH RIGHT HAND ACCESS (**CONTRACTOR TO VERIFY HAND CONNECTIONS BEFORE ORDERING. HAND IS DETERMINED LOOKING IN THE DIRECTION OF AIRFLOW**)
- 2.0 HP HIGH EFFICIENCY ODP FAN MOTOR, 1.3 SERVICE FACTOR
- 460V/3/60HZ
- CALDYN "HH" SERIES 1.5" DEFLECTION SPRING/NEOPRENE HANGERS

### **SF-A3: CARRIER MODEL 39LG18AA----ASS-A9**

- HORIZONTAL CENTRAL STATION AIR HANDLING UNIT
- PRE-PAINTED GALVANIZED STEEL SINGLE WALL
- 1" THICK, 1.5# DENSITY ARMSTRONG "TUFFSKIN II" INSULATION
- HINGED DOUBLE WALL INSULATED ACCESS DOORS
- FLAT FILTER SECTION
- 2" THICK, 30% EFFICIENCY PLEATED MEDIA FILTERS
- FORWARD CURVED FAN WITH RIGHT HAND ACCESS (**CONTRACTOR TO VERIFY HAND CONNECTIONS BEFORE ORDERING. HAND IS DETERMINED LOOKING IN THE DIRECTION OF AIRFLOW**)

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- 5.0 HP HIGH EFFICIENCY ODP FAN MOTOR, 1.3 SERVICE FACTOR
- 460V/3/60HZ
- CALDYN "HH" SERIES 1.5" DEFLECTION SPRING/NEOPRENE HANGERS

**SF-A4: CARRIER MODEL 39LG25AA----APS-A9**

- HORIZONTAL CENTRAL STATION AIR HANDLING UNIT
- PRE-PAINTED GALVANIZED STEEL SINGLE WALL
- 1" THICK, 1.5# DENSITY ARMSTRONG "TUFFSKIN II" INSULATION
- HINGED DOUBLE WALL INSULATED ACCESS DOORS
- FLAT FILTER SECTION
- 2" THICK, 30% EFFICIENCY PLEATED MEDIA FILTERS
- FORWARD CURVED FAN WITH RIGHT HAND ACCESS (**CONTRACTOR TO VERIFY HAND CONNECTIONS BEFORE ORDERING. HAND IS DETERMINED LOOKING IN THE DIRECTION OF AIRFLOW**)
- 7.5 HP HIGH EFFICIENCY ODP FAN MOTOR, 1.3 SERVICE FACTOR
- 460V/3/60HZ
- CALDYN "HH" SERIES 1.5" DEFLECTION SPRING/NEOPRENE HANGERS

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## **EQUIPMENT COVERED**

### **VAV-C, D, F: CARRIER MODEL 35EA (VARIOUS SIZES)**

- VARIABLE VOLUME TERMINAL UNIT COMPLETE WITH DAMPER ASSEMBLY AND FLOW SENSOR
- 22-GAGE GALVANIZED STEEL WITH 1" THICK, 1.5# DENSITY ARMSTRONG "TUFFSKIN II" INSULATION COMPLYING WITH UL-181 AND NFPA-90A
- PRESSURE-INDEPENDENT ANALOG ELECTRONIC CONTROLS WITH WALL TEMPERATURE SENSOR
- NEMA 1 CONTROL ENCLOSURE
- 120/24V CONTROL TRANSFORMER (**REQUIRES 120V, 20A POWER SOURCE FOR EACH BOX**)
- **CONTRACTOR TO VERIFY/SPECIFY EITHER LEFT OR RIGHT HAND CONTROL ORIENTATION BEFORE ORDERING**

<b>VAV-C</b>	1	35EA-08	<b>35EA VAV Terminal Unit</b> 8" Inlet with Analog Controls, 120/24v XFMR
<b>VAV-D</b>	1	35EA-10	<b>35EA VAV Terminal Unit</b> 10" Inlet with Analog Controls, 120/24v XFMR
<b>VAV-F</b>	2	35EA-14	<b>35EA VAV Terminal Unit</b> 12" Inlet with Analog Controls, 120/24v XFMR



## **EQUIPMENT COVERED**

### **FCU-A1: CARRIER MODEL 42BHC08LC3R60913CE (RH)**

- HORIZONTAL BELT-DRIVEN DRAW-THRU CHILLED WATER FAN COIL UNIT
- 1/2 HP HIGH EFFICIENCY ODP MOTOR W/ OVERLOAD, 115V/1/60HZ
- 900 CFM @ 0.50" W.G. E.S.P. (1.31" W.G. T.S.P.)
- HEAVY GALVANIZED STEEL CABINET WITH BAKED POWDER ENAMEL COATING
- 1" THICK ARMSTRONG "TUFF-SKIN II" FIBERGLASS INSULATION
- DWDI FORWARD CURVED GALVANIZED STEEL FAN
- 6-ROW COPPER TUBE/ALUMINUM FIN CHILLED WATER EVAPORATOR COIL, RIGHT HAND COIL AND DRAIN CONNECTIONS (**CONTRACTOR TO VERIFY HAND CONNECTIONS BEFORE ORDERING. HAND IS DETERMINED LOOKING IN THE DIRECTION OF AIRFLOW**)
- **VARIANCE - BLYGOLD "POLUAL" COATING OF EVAPORATOR COIL DELETED PER DAGS MEMORANDUM, DATED 09/11/2003. CREDIT TO BE PROVIDED TO THE STATE.**
- FACTORY INSTALLED UV-C LIGHTS, COMPLETE WITH EMITTERS AND DISCONNECT, 115V/1/60HZ (**REQUIRES SEPARATE 115V POWER SUPPLY**)
- 2" THICK PLEATED MEDIA FILTERS
- CALDYN "HH" SERIES 1.5" DEFLECTION SPRING/NEOPRENE HANGERS

### **FCU-A2: CARRIER MODEL 42BHC08LC3L60913CE (LH)**

- HORIZONTAL BELT-DRIVEN DRAW-THRU CHILLED WATER FAN COIL UNIT
- 1/2 HP HIGH EFFICIENCY ODP MOTOR W/ OVERLOAD, 115V/1/60HZ
- 900 CFM @ 0.50" W.G. E.S.P. (1.31" W.G. T.S.P.)
- HEAVY GALVANIZED STEEL CABINET WITH BAKED POWDER ENAMEL COATING
- 1" THICK ARMSTRONG "TUFF-SKIN II" FIBERGLASS INSULATION
- DWDI FORWARD CURVED GALVANIZED STEEL FAN
- 6-ROW COPPER TUBE/ALUMINUM FIN CHILLED WATER EVAPORATOR COIL, LEFT HAND COIL AND DRAIN CONNECTIONS (**CONTRACTOR TO VERIFY HAND CONNECTIONS BEFORE ORDERING. HAND IS DETERMINED LOOKING IN THE DIRECTION OF AIRFLOW**)
- **VARIANCE - BLYGOLD "POLUAL" COATING OF EVAPORATOR COIL DELETED PER DAGS MEMORANDUM, DATED 09/11/2003. CREDIT TO BE PROVIDED TO THE STATE.**
- FACTORY INSTALLED UV-C LIGHTS, COMPLETE WITH EMITTERS AND DISCONNECT, 115V/1/60HZ (**REQUIRES SEPARATE 115V POWER SUPPLY**)
- 2" THICK PLEATED MEDIA FILTERS

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- CALDYN “HH” SERIES 1.5” DEFLECTION SPRING/NEOPRENE HANGERS

**FCU-A5: CARRIER MODEL 42BHC16LC3L61410CE (LH)**

- HORIZONTAL BELT-DRIVEN DRAW-THRU CHILLED WATER FAN COIL UNIT
- 1/2 HP HIGH EFFICIENCY ODP MOTOR W/ OVERLOAD, 115V/1/60HZ
- 1,400 CFM @ 0.30” W.G. E.S.P. (1.00” W.G. T.S.P.)
- HEAVY GALVANIZED STEEL CABINET WITH BAKED POWDER ENAMEL COATING
- 1” THICK ARMSTRONG “TUFF-SKIN II” FIBERGLASS INSULATION
- DWDI FORWARD CURVED GALVANIZED STEEL FAN
- 6-ROW COPPER TUBE/ALUMINUM FIN CHILLED WATER EVAPORATOR COIL, LEFT HAND COIL AND DRAIN CONNECTIONS (**CONTRACTOR TO VERIFY HAND CONNECTIONS BEFORE ORDERING. HAND IS DETERMINED LOOKING IN THE DIRECTION OF AIRFLOW**)
- **VARIANCE - BLYGOLD “POLUAL” COATING OF EVAPORATOR COIL DELETED PER DAGS MEMORANDUM, DATED 09/11/2003. CREDIT TO BE PROVIDED TO THE STATE.**
- FACTORY INSTALLED UV-C LIGHTS, COMPLETE WITH EMITTERS AND DISCONNECT, 115V/1/60HZ (**REQUIRES SEPARATE 115V POWER SUPPLY**)
- 2” THICK PLEATED MEDIA FILTERS
- CALDYN “HH” SERIES 1.5” DEFLECTION SPRING/NEOPRENE HANGERS

**FCU-A8: CARRIER MODEL 42BHC12LC3R61012CE (RH)**

- HORIZONTAL BELT-DRIVEN DRAW-THRU CHILLED WATER FAN COIL UNIT
- 1/2 HP HIGH EFFICIENCY ODP MOTOR W/ OVERLOAD, 115V/1/60HZ
- 1,000 CFM @ 0.50” W.G. E.S.P. (1.21” W.G. T.S.P.)
- HEAVY GALVANIZED STEEL CABINET WITH BAKED POWDER ENAMEL COATING
- 1” THICK ARMSTRONG “TUFF-SKIN II” FIBERGLASS INSULATION
- DWDI FORWARD CURVED GALVANIZED STEEL FAN
- 6-ROW COPPER TUBE/ALUMINUM FIN CHILLED WATER EVAPORATOR COIL, RIGHT HAND COIL AND DRAIN CONNECTIONS (**CONTRACTOR TO VERIFY HAND CONNECTIONS BEFORE ORDERING. HAND IS DETERMINED LOOKING IN THE DIRECTION OF AIRFLOW**)
- **VARIANCE - BLYGOLD “POLUAL” COATING OF EVAPORATOR COIL DELETED PER DAGS MEMORANDUM, DATED 09/11/2003. CREDIT TO BE PROVIDED TO THE STATE.**
- FACTORY INSTALLED UV-C LIGHTS, COMPLETE WITH EMITTERS AND DISCONNECT, 115V/1/60HZ (**REQUIRES SEPARATE 115V POWER SUPPLY**)
- 2” THICK PLEATED MEDIA FILTERS
- CALDYN “HH” SERIES 1.5” DEFLECTION SPRING/NEOPRENE HANGERS



**FCU-A10: CARRIER MODEL 42BHC16LC3L61410CE (LH)**

- HORIZONTAL BELT-DRIVEN DRAW-THRU CHILLED WATER FAN COIL UNIT
- 1/2 HP HIGH EFFICIENCY ODP MOTOR W/ OVERLOAD, 115V/1/60HZ
- 1,400 CFM @ 0.30" W.G. E.S.P. (1.00" W.G. T.S.P.)
- HEAVY GALVANIZED STEEL CABINET WITH BAKED POWDER ENAMEL COATING
- 1" THICK ARMSTRONG "TUFF-SKIN II" FIBERGLASS INSULATION
- DWDI FORWARD CURVED GALVANIZED STEEL FAN
- 6-ROW COPPER TUBE/ALUMINUM FIN CHILLED WATER EVAPORATOR COIL, LEFT HAND COIL AND DRAIN CONNECTIONS (**CONTRACTOR TO VERIFY HAND CONNECTIONS BEFORE ORDERING. HAND IS DETERMINED LOOKING IN THE DIRECTION OF AIRFLOW**)
- **VARIANCE - BLYGOLD "POLUAL" COATING OF EVAPORATOR COIL DELETED PER DAGS MEMORANDUM, DATED 09/11/2003. CREDIT TO BE PROVIDED TO THE STATE.**
- FACTORY INSTALLED UV-C LIGHTS, COMPLETE WITH EMITTERS AND DISCONNECT, 115V/1/60HZ (**REQUIRES SEPARATE 115V POWER SUPPLY**)
- 2" THICK PLEATED MEDIA FILTERS
- CALDYN "HH" SERIES 1.5" DEFLECTION SPRING/NEOPRENE HANGERS

**FCU-O3: CARRIER MODEL 42BHC08LC3L60911CE (LH)**

- HORIZONTAL BELT-DRIVEN DRAW-THRU CHILLED WATER FAN COIL UNIT
- 1/2 HP HIGH EFFICIENCY ODP MOTOR W/ OVERLOAD, 115V/1/60HZ
- 900 CFM @ 0.30" W.G. E.S.P. (1.11" W.G. T.S.P.)
- HEAVY GALVANIZED STEEL CABINET WITH BAKED POWDER ENAMEL COATING
- 1" THICK ARMSTRONG "TUFF-SKIN II" FIBERGLASS INSULATION
- DWDI FORWARD CURVED GALVANIZED STEEL FAN
- 6-ROW COPPER TUBE/ALUMINUM FIN CHILLED WATER EVAPORATOR COIL, LEFT HAND COIL AND DRAIN CONNECTIONS (**CONTRACTOR TO VERIFY HAND CONNECTIONS BEFORE ORDERING. HAND IS DETERMINED LOOKING IN THE DIRECTION OF AIRFLOW**)
- **VARIANCE - BLYGOLD "POLUAL" COATING OF EVAPORATOR COIL DELETED PER DAGS MEMORANDUM, DATED 09/11/2003. CREDIT TO BE PROVIDED TO THE STATE.**
- FACTORY INSTALLED UV-C LIGHTS, COMPLETE WITH EMITTERS AND DISCONNECT, 115V/1/60HZ (**REQUIRES SEPARATE 115V POWER SUPPLY**)
- 2" THICK PLEATED MEDIA FILTERS
- CALDYN "HH" SERIES 1.5" DEFLECTION SPRING/NEOPRENE HANGERS



## **EQUIPMENT COVERED**

### **FCU-A3: CARRIER MODEL 42CEA04BLCY6APY2 (LH)**

- HORIZONTAL FURRED-IN CEILING WITH RETURN AIR PLENUM, DIRECT-DRIVEN BLOW-THRU CHILLED WATER FAN COIL UNIT
- 1/12 HP 3-SPEED PERMANENT SPLIT-CAPACITOR MOTOR W/ OVERLOAD, 120V/1/60HZ
- 355 CFM @ 0.15" W.G. E.S.P. @ HIGH SPEED
- GALVANNEALED STEEL CABINET WITH BAKED ENAMEL COATING
- 1/2" THICK FIBERGLASS INSULATION
- 1" LONG DUCT COLLAR FOR SUPPLY AIR CONNECTION
- FACTORY INSTALLED RETURN AIR PLENUM SECTION WITH REAR RETURN
- COATED AND INSULATED GALVANNEALED STEEL DRAIN PAN
- DWDI FORWARD CURVED GALVANIZED STEEL FAN
- 4-ROW HIGH CAPACITY COPPER TUBE/ALUMINUM FIN CHILLED WATER EVAPORATOR COIL, LEFT HAND COIL AND DRAIN CONNECTIONS (CONTRACTOR TO VERIFY HAND CONNECTIONS BEFORE ORDERING. HAND IS DETERMINED FACING THE UNIT FROM THE FRONT)
- **VARIANCE - BLYGOLD "POLUAL" COATING OF EVAPORATOR COIL DELETED PER DAGS MEMORANDUM, DATED 09/11/2003. CREDIT TO BE PROVIDED TO THE STATE.**
- FACTORY FURNISHED CHILLED WATER VALVE PACKAGE CONSISTING OF (1) BALL VALVE, (1) "CIRCUIT SETTER", AND (1) **3-WAY MOTORIZED VALVE (VARIANCE PER DAGS MEMORANDUM, DATED 09/11/2003)**
- WALL MOUNTED THERMOSTAT AND 3-SPEED SWITCH
- 1" THICK THROWAWAY FILTER
- CALDYN "HH" SERIES 1.5" DEFLECTION SPRING/NEOPRENE HANGERS
- TOTALINE P103-RTUVL-024 DUCT MOUNTED UV-C LIGHT, EMITTERS AND BULBS, 115V/1/60HZ (REQUIRES SEPARATE 115V POWER SUPPLY)

### **FCU-A4: CARRIER MODEL 42CEA03BRCY6APY2 (RH)**

- HORIZONTAL FURRED-IN CEILING WITH RETURN AIR PLENUM, DIRECT-DRIVEN BLOW-THRU CHILLED WATER FAN COIL UNIT
- 1/30 HP 3-SPEED PERMANENT SPLIT-CAPACITOR MOTOR W/ OVERLOAD, 120V/1/60HZ
- 195 CFM @ 0.15" W.G. E.S.P. @ HIGH SPEED
- GALVANNEALED STEEL CABINET WITH BAKED ENAMEL COATING
- 1/2" THICK FIBERGLASS INSULATION
- 1" LONG DUCT COLLAR FOR SUPPLY AIR CONNECTION
- FACTORY INSTALLED RETURN AIR PLENUM SECTION WITH REAR RETURN

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- COATED AND INSULATED GALVANNEALED STEEL DRAIN PAN
- DWDI FORWARD CURVED GALVANIZED STEEL FAN
- 4-ROW HIGH CAPACITY COPPER TUBE/ALUMINUM FIN CHILLED WATER EVAPORATOR COIL, RIGHT HAND COIL AND DRAIN CONNECTIONS (CONTRACTOR TO VERIFY HAND CONNECTIONS BEFORE ORDERING. HAND IS DETERMINED FACING THE UNIT FROM THE FRONT)
- **VARIANCE - BLYGOLD "POLUAL" COATING OF EVAPORATOR COIL DELETED PER DAGS MEMORANDUM, DATED 09/11/2003. CREDIT TO BE PROVIDED TO THE STATE.**
- FACTORY FURNISHED CHILLED WATER VALVE PACKAGE CONSISTING OF (1) BALL VALVE, (1) "CIRCUIT SETTER", AND (1) **3-WAY MOTORIZED VALVE (VARIANCE PER DAGS MEMORANDUM, DATED 09/11/2003)**
- WALL MOUNTED THERMOSTAT AND 3-SPEED SWITCH
- 1" THICK THROWAWAY FILTER
- CALDYN "HH" SERIES 1.5" DEFLECTION SPRING/NEOPRENE HANGERS
- TOTALINE P103-RTUVL-024 DUCT MOUNTED UV-C LIGHT, EMITTERS AND BULBS, 115V/1/60HZ (REQUIRES SEPARATE 115V POWER SUPPLY)

**FCU-A6: CARRIER MODEL 42CEA03BRCY6APY2 (RH)**

- HORIZONTAL FURRED-IN CEILING WITH RETURN AIR PLENUM, DIRECT-DRIVEN BLOW-THRU CHILLED WATER FAN COIL UNIT
- 1/30 HP 3-SPEED PERMANENT SPLIT-CAPACITOR MOTOR W/ OVERLOAD, 120V/1/60HZ
- 195 CFM @ 0.15" W.G. E.S.P. @ HIGH SPEED
- GALVANNEALED STEEL CABINET WITH BAKED ENAMEL COATING
- 1/2" THICK FIBERGLASS INSULATION
- 1" LONG DUCT COLLAR FOR SUPPLY AIR CONNECTION
- FACTORY INSTALLED RETURN AIR PLENUM SECTION WITH REAR RETURN
- COATED AND INSULATED GALVANNEALED STEEL DRAIN PAN
- DWDI FORWARD CURVED GALVANIZED STEEL FAN
- 4-ROW HIGH CAPACITY COPPER TUBE/ALUMINUM FIN CHILLED WATER EVAPORATOR COIL, RIGHT HAND COIL AND DRAIN CONNECTIONS (CONTRACTOR TO VERIFY HAND CONNECTIONS BEFORE ORDERING. HAND IS DETERMINED FACING THE UNIT FROM THE FRONT)
- **VARIANCE - BLYGOLD "POLUAL" COATING OF EVAPORATOR COIL DELETED PER DAGS MEMORANDUM, DATED 09/11/2003. CREDIT TO BE PROVIDED TO THE STATE.**
- FACTORY FURNISHED CHILLED WATER VALVE PACKAGE CONSISTING OF (1) BALL VALVE, (1) "CIRCUIT SETTER", AND (1) **3-WAY MOTORIZED VALVE (VARIANCE PER DAGS MEMORANDUM, DATED 09/11/2003)**
- WALL MOUNTED THERMOSTAT AND 3-SPEED SWITCH



- 1" THICK THROWAWAY FILTER
- CALDYN "HH" SERIES 1.5" DEFLECTION SPRING/NEOPRENE HANGERS
- TOTALINE P103-RTUVL-024 DUCT MOUNTED UV-C LIGHT, EMITTERS AND BULBS, 115V/1/60HZ (**REQUIRES SEPARATE 115V POWER SUPPLY**)

**FCU-A7: CARRIER MODEL 42CEA04BRCY6APY2 (RH)**

- HORIZONTAL FURRED-IN CEILING WITH RETURN AIR PLENUM, DIRECT-DRIVEN BLOW-THRU CHILLED WATER FAN COIL UNIT
- 1/12 HP 3-SPEED PERMANENT SPLIT-CAPACITOR MOTOR W/ OVERLOAD, 120V/1/60HZ
- 355 CFM @ 0.15" W.G. E.S.P. @ HIGH SPEED
- GALVANNEALED STEEL CABINET WITH BAKED ENAMEL COATING
- 1/2" THICK FIBERGLASS INSULATION
- 1" LONG DUCT COLLAR FOR SUPPLY AIR CONNECTION
- FACTORY INSTALLED RETURN AIR PLENUM SECTION WITH REAR RETURN
- COATED AND INSULATED GALVANNEALED STEEL DRAIN PAN
- DWDI FORWARD CURVED GALVANIZED STEEL FAN
- 4-ROW HIGH CAPACITY COPPER TUBE/ALUMINUM FIN CHILLED WATER EVAPORATOR COIL, RIGHT HAND COIL AND DRAIN CONNECTIONS (**CONTRACTOR TO VERIFY HAND CONNECTIONS BEFORE ORDERING. HAND IS DETERMINED FACING THE UNIT FROM THE FRONT**)
- **VARIANCE - BLYGOLD "POLUAL" COATING OF EVAPORATOR COIL DELETED PER DAGS MEMORANDUM, DATED 09/11/2003. CREDIT TO BE PROVIDED TO THE STATE.**
- FACTORY FURNISHED CHILLED WATER VALVE PACKAGE CONSISTING OF (1) BALL VALVE, (1) "CIRCUIT SETTER", AND (1) **3-WAY MOTORIZED VALVE (VARIANCE PER DAGS MEMORANDUM, DATED 09/11/2003)**
- WALL MOUNTED THERMOSTAT AND 3-SPEED SWITCH
- 1" THICK THROWAWAY FILTER
- CALDYN "HH" SERIES 1.5" DEFLECTION SPRING/NEOPRENE HANGERS
- TOTALINE P103-RTUVL-024 DUCT MOUNTED UV-C LIGHT, EMITTERS AND BULBS, 115V/1/60HZ (**REQUIRES SEPARATE 115V POWER SUPPLY**)

**FCU-A9A: CARRIER MODEL 42CEA03BLCY6APY2 (LH)**

- HORIZONTAL FURRED-IN CEILING WITH RETURN AIR PLENUM, DIRECT-DRIVEN BLOW-THRU CHILLED WATER FAN COIL UNIT
- 1/30 HP 3-SPEED PERMANENT SPLIT-CAPACITOR MOTOR W/ OVERLOAD, 120V/1/60HZ
- 180 CFM @ 0.10" W.G. E.S.P. @ MEDIUM SPEED
- GALVANNEALED STEEL CABINET WITH BAKED ENAMEL COATING
- 1/2" THICK FIBERGLASS INSULATION
- 1" LONG DUCT COLLAR FOR SUPPLY AIR CONNECTION

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- FACTORY INSTALLED RETURN AIR PLENUM SECTION WITH REAR RETURN
- COATED AND INSULATED GALVANNEALED STEEL DRAIN PAN
- DWDI FORWARD CURVED GALVANIZED STEEL FAN
- 4-ROW HIGH CAPACITY COPPER TUBE/ALUMINUM FIN CHILLED WATER EVAPORATOR COIL, LEFT HAND COIL AND DRAIN CONNECTIONS  
**(CONTRACTOR TO VERIFY HAND CONNECTIONS BEFORE ORDERING. HAND IS DETERMINED FACING THE UNIT FROM THE FRONT)**
- **VARIANCE - BLYGOLD "POLUAL" COATING OF EVAPORATOR COIL DELETED PER DAGS MEMORANDUM, DATED 09/11/2003. CREDIT TO BE PROVIDED TO THE STATE.**
- FACTORY FURNISHED CHILLED WATER VALVE PACKAGE CONSISTING OF (1) BALL VALVE, (1) "CIRCUIT SETTER", AND (1) **3-WAY MOTORIZED VALVE (VARIANCE PER DAGS MEMORANDUM, DATED 09/11/2003)**
- WALL MOUNTED THERMOSTAT AND 3-SPEED SWITCH
- 1" THICK THROWAWAY FILTER
- CALDYN "HH" SERIES 1.5" DEFLECTION SPRING/NEOPRENE HANGERS
- TOTALINE P103-RTUVL-024 DUCT MOUNTED UV-C LIGHT, EMITTERS AND BULBS, 115V/1/60HZ (REQUIRES SEPARATE 115V POWER SUPPLY)

**FCU-O1: CARRIER MODEL 42CEA06ALCY6APY2 (LH)**

- **VARIANCE - UNIT HAS A TOTAL COOLING CAPACITY (TCC) OF 1,804 BTUH MORE THAN INDICATED ON EQUIPMENT SCHEDULE. SENSIBLE COOLING CAPACITY (SCC) IS 662 BTUH LESS THAN INDICATED ON EQUIPMENT SCHEDULE. SELECTION OF THE NEXT LARGER SIZED UNIT WILL GREATLY OVERSIZE THE UNIT AND MAY RESULT IN HUMIDITY PROBLEMS. ALSO THE AIRFLOW WOULD BE INCREASED OVER THE QUANTITY SPECIFIED BY USING THE NEXT LARGER UNIT, FURTHER CONTRIBUTING TO THE OVER SIZING PROBLEM. UNIT TO REMAIN AS SELECTED PER DAGS MEMORANDUM, DATED 09/11/2003.**
- HORIZONTAL FURRED-IN CEILING WITH RETURN AIR PLENUM, DIRECT-DRIVEN BLOW-THRU CHILLED WATER FAN COIL UNIT
- 1/12 HP 3-SPEED PERMANENT SPLIT-CAPACITOR MOTOR W/ OVERLOAD, 120V/1/60HZ
- 410 CFM @ 0.25" W.G. E.S.P. @ HIGH SPEED
- GALVANNEALED STEEL CABINET WITH BAKED ENAMEL COATING
- 1/2" THICK FIBERGLASS INSULATION
- 1" LONG DUCT COLLAR FOR SUPPLY AIR CONNECTION
- FACTORY INSTALLED RETURN AIR PLENUM SECTION WITH REAR RETURN
- COATED AND INSULATED GALVANNEALED STEEL DRAIN PAN
- DWDI FORWARD CURVED GALVANIZED STEEL FAN
- 3-ROW STANDARD CAPACITY COPPER TUBE/ALUMINUM FIN CHILLED WATER EVAPORATOR COIL, LEFT HAND COIL AND DRAIN CONNECTIONS

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**(CONTRACTOR TO VERIFY HAND CONNECTIONS BEFORE ORDERING.  
HAND IS DETERMINED FACING THE UNIT FROM THE FRONT)**

- **VARIANCE - BLYGOLD "POLUAL" COATING OF EVAPORATOR COIL DELETED PER DAGS MEMORANDUM, DATED 09/11/2003. CREDIT TO BE PROVIDED TO THE STATE.**
- FACTORY FURNISHED CHILLED WATER VALVE PACKAGE CONSISTING OF (1) BALL VALVE, (1) "CIRCUIT SETTER", AND (1) **3-WAY MOTORIZED VALVE (VARIANCE PER DAGS MEMORANDUM, DATED 09/11/2003)**
- WALL MOUNTED THERMOSTAT AND 3-SPEED SWITCH
- 1" THICK THROWAWAY FILTER
- CALDYN "HH" SERIES 1.5" DEFLECTION SPRING/NEOPRENE HANGERS
- TOTALINE P103-RTUVL-024 DUCT MOUNTED UV-C LIGHT, EMITTERS AND BULBS, 115V/1/60HZ (REQUIRES SEPARATE 115V POWER SUPPLY)

**FCU-O2: CARRIER MODEL 42CEA03ALCY6APY2 (LH)**

- **VARIANCE - UNIT HAS A TOTAL COOLING CAPACITY (TCC) OF 78 BTUH LESS THAN INDICATED ON EQUIPMENT SCHEDULE. SENSIBLE COOLING CAPACITY (SCC) IS 453 BTUH LESS THAN INDICATED ON EQUIPMENT SCHEDULE. SELECTION OF THE NEXT LARGER SIZED UNIT WILL GREATLY OVERSIZE THE UNIT AND MAY RESULT IN HUMIDITY PROBLEMS. ALSO THE AIRFLOW WOULD BE INCREASED OVER THE QUANTITY SPECIFIED BY USING THE NEXT LARGER UNIT, FURTHER CONTRIBUTING TO THE OVER SIZING PROBLEM. UNIT TO REMAIN AS SELECTED PER DAGS MEMORANDUM, DATED 09/11/2003.**
- HORIZONTAL FURRED-IN CEILING WITH RETURN AIR PLENUM, DIRECT-DRIVEN BLOW-THRU CHILLED WATER FAN COIL UNIT
- 1/30 HP 3-SPEED PERMANENT SPLIT-CAPACITOR MOTOR W/ OVERLOAD, 120V/1/60HZ
- 215 CFM @ 0.15" W.G. E.S.P. @ HIGH SPEED
- GALVANNEALED STEEL CABINET WITH BAKED ENAMEL COATING
- 1/2" THICK FIBERGLASS INSULATION
- 1" LONG DUCT COLLAR FOR SUPPLY AIR CONNECTION
- FACTORY INSTALLED RETURN AIR PLENUM SECTION WITH REAR RETURN
- COATED AND INSULATED GALVANNEALED STEEL DRAIN PAN
- DWDI FORWARD CURVED GALVANIZED STEEL FAN
- 3-ROW STANDARD CAPACITY COPPER TUBE/ALUMINUM FIN CHILLED WATER EVAPORATOR COIL, LEFT HAND COIL AND DRAIN CONNECTIONS  
**(CONTRACTOR TO VERIFY HAND CONNECTIONS BEFORE ORDERING.  
HAND IS DETERMINED FACING THE UNIT FROM THE FRONT)**
- **VARIANCE - BLYGOLD "POLUAL" COATING OF EVAPORATOR COIL DELETED PER DAGS MEMORANDUM, DATED 09/11/2003. CREDIT TO BE PROVIDED TO THE STATE.**

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- FACTORY FURNISHED CHILLED WATER VALVE PACKAGE CONSISTING OF (1) BALL VALVE, (1) "CIRCUIT SETTER", AND (1) 3-WAY MOTORIZED VALVE (VARIANCE PER DAGS MEMORANDUM, DATED 09/11/2003)
- WALL MOUNTED THERMOSTAT AND 3-SPEED SWITCH
- 1" THICK THROWAWAY FILTER
- CALDYN "HH" SERIES 1.5" DEFLECTION SPRING/NEOPRENE HANGERS
- TOTALINE P103-RTUVL-024 DUCT MOUNTED UV-C LIGHT, EMITTERS AND BULBS, 115V/1/60HZ (REQUIRES SEPARATE 115V POWER SUPPLY)

**FCU-04: CARRIER MODEL 42CEA04ALCY6APY2 (LH)**

- HORIZONTAL FURRED-IN CEILING WITH RETURN AIR PLENUM, DIRECT-DRIVEN BLOW-THRU CHILLED WATER FAN COIL UNIT
- 1/12 HP 3-SPEED PERMANENT SPLIT-CAPACITOR MOTOR W/ OVERLOAD, 120V/1/60HZ
- 410 CFM @ 0.25" W.G. E.S.P. @ HIGH SPEED
- GALVANNEALED STEEL CABINET WITH BAKED ENAMEL COATING
- 1/2" THICK FIBERGLASS INSULATION
- 1" LONG DUCT COLLAR FOR SUPPLY AIR CONNECTION
- FACTORY INSTALLED RETURN AIR PLENUM SECTION WITH REAR RETURN
- COATED AND INSULATED GALVANNEALED STEEL DRAIN PAN
- DWDI FORWARD CURVED GALVANIZED STEEL FAN
- 3-ROW STANDARD CAPACITY COPPER TUBE/ALUMINUM FIN CHILLED WATER EVAPORATOR COIL, LEFT HAND COIL AND DRAIN CONNECTIONS (CONTRACTOR TO VERIFY HAND CONNECTIONS BEFORE ORDERING. HAND IS DETERMINED FACING THE UNIT FROM THE FRONT)
- VARIANCE - BLYGOLD "POLUAL" COATING OF EVAPORATOR COIL DELETED PER DAGS MEMORANDUM, DATED 09/11/2003. CREDIT TO BE PROVIDED TO THE STATE.
- FACTORY FURNISHED CHILLED WATER VALVE PACKAGE CONSISTING OF (1) BALL VALVE, (1) "CIRCUIT SETTER", AND (1) 3-WAY MOTORIZED VALVE (VARIANCE PER DAGS MEMORANDUM, DATED 09/11/2003)
- WALL MOUNTED THERMOSTAT AND 3-SPEED SWITCH
- 1" THICK THROWAWAY FILTER
- CALDYN "HH" SERIES 1.5" DEFLECTION SPRING/NEOPRENE HANGERS
- TOTALINE P103-RTUVL-024 DUCT MOUNTED UV-C LIGHT, EMITTERS AND BULBS, 115V/1/60HZ (REQUIRES SEPARATE 115V POWER SUPPLY)

**FCU-05: CARRIER MODEL 42CEA08BRCY6APY2 (RH)**

- HORIZONTAL FURRED-IN CEILING WITH RETURN AIR PLENUM, DIRECT-DRIVEN BLOW-THRU CHILLED WATER FAN COIL UNIT
- 1/6 HP 3-SPEED PERMANENT SPLIT-CAPACITOR MOTOR W/ OVERLOAD, 120V/1/60HZ

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- 515 CFM @ 0.25" W.G. E.S.P. @ HIGH SPEED
- GALVANNEALED STEEL CABINET WITH BAKED ENAMEL COATING
- 1/2" THICK FIBERGLASS INSULATION
- 1" LONG DUCT COLLAR FOR SUPPLY AIR CONNECTION
- FACTORY INSTALLED RETURN AIR PLENUM SECTION WITH REAR RETURN
- COATED AND INSULATED GALVANNEALED STEEL DRAIN PAN
- DWDI FORWARD CURVED GALVANIZED STEEL FAN
- 4-ROW HIGH CAPACITY COPPER TUBE/ALUMINUM FIN CHILLED WATER EVAPORATOR COIL, RIGHT HAND COIL AND DRAIN CONNECTIONS  
(CONTRACTOR TO VERIFY HAND CONNECTIONS BEFORE ORDERING. HAND IS DETERMINED FACING THE UNIT FROM THE FRONT)
- **VARIANCE - BLYGOLD "POLUAL" COATING OF EVAPORATOR COIL DELETED PER DAGS MEMORANDUM, DATED 09/11/2003. CREDIT TO BE PROVIDED TO THE STATE.**
- FACTORY FURNISHED CHILLED WATER VALVE PACKAGE CONSISTING OF (1) BALL VALVE, (1) "CIRCUIT SETTER", AND (1) **3-WAY MOTORIZED VALVE (VARIANCE PER DAGS MEMORANDUM, DATED 09/11/2003)**
- WALL MOUNTED THERMOSTAT AND 3-SPEED SWITCH
- 1" THICK THROWAWAY FILTER
- CALDYN "HH" SERIES 1.5" DEFLECTION SPRING/NEOPRENE HANGERS
- TOTALINE P103-RTUVL-024 DUCT MOUNTED UV-C LIGHT, EMITTERS AND BULBS, 115V/1/60HZ (REQUIRES SEPARATE 115V POWER SUPPLY)

**FCU-O6: CARRIER MODEL 42CEA04BLCY6APY2 (LH)**

- HORIZONTAL FURRED-IN CEILING WITH RETURN AIR PLENUM, DIRECT-DRIVEN BLOW-THRU CHILLED WATER FAN COIL UNIT
- 1/12 HP 3-SPEED PERMANENT SPLIT-CAPACITOR MOTOR W/ OVERLOAD, 120V/1/60HZ
- 355 CFM @ 0.15" W.G. E.S.P. @ HIGH SPEED
- GALVANNEALED STEEL CABINET WITH BAKED ENAMEL COATING
- 1/2" THICK FIBERGLASS INSULATION
- 1" LONG DUCT COLLAR FOR SUPPLY AIR CONNECTION
- FACTORY INSTALLED RETURN AIR PLENUM SECTION WITH REAR RETURN
- COATED AND INSULATED GALVANNEALED STEEL DRAIN PAN
- DWDI FORWARD CURVED GALVANIZED STEEL FAN
- 4-ROW HIGH CAPACITY COPPER TUBE/ALUMINUM FIN CHILLED WATER EVAPORATOR COIL, LEFT HAND COIL AND DRAIN CONNECTIONS  
(CONTRACTOR TO VERIFY HAND CONNECTIONS BEFORE ORDERING. HAND IS DETERMINED FACING THE UNIT FROM THE FRONT)

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Air Conditioning



- **VARIANCE - BLYGOLD "POLUAL" COATING OF EVAPORATOR COIL DELETED PER DAGS MEMORANDUM, DATED 09/11/2003. CREDIT TO BE PROVIDED TO THE STATE.**
- FACTORY FURNISHED CHILLED WATER VALVE PACKAGE CONSISTING OF (1) BALL VALVE, (1) "CIRCUIT SETTER", AND (1) **3-WAY MOTORIZED VALVE (VARIANCE PER DAGS MEMORANDUM, DATED 09/11/2003)**
- WALL MOUNTED THERMOSTAT AND 3-SPEED SWITCH
- 1" THICK THROWAWAY FILTER
- CALDYN "HH" SERIES 1.5" DEFLECTION SPRING/NEOPRENE HANGERS
- TOTALINE P103-RTUVL-024 DUCT MOUNTED UV-C LIGHT, EMITTERS AND BULBS, 115V/1/60HZ (**REQUIRES SEPARATE 115V POWER SUPPLY**)

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## **EQUIPMENT COVERED**

### **FCU-A9B: MUNTERS MODEL HC-150-I**

- “CARGOCAIRE OFF-THE-SHELF” DESICCANT DEHUMIDIFIER
- UNITIZED BODY WITH WELDED ALUMINUM CONSTRUCTION
- HONEYCOMBE DESICCANT WHEEL WITH REACTIVATION HEATERS
- 75-150 SCFM
- 220V/1/60HZ
- PURCHASED THROUGH ENGINEERED SYSTEMS (MANUFACTURER’S REPRESENTATIVE)
- PER MANUFACTURER’S REPRESENTATIVE, ENGINEERED SYSTEMS, THE DEHUMIDIFIER REQUIRES AN ADDITIONAL FAN COIL UNIT TO COOL THE LEAVING AIR TO AN ACCEPTABLE TEMPERATURE.