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## AIR CONDITIONING SYSTEMS

WHEN IN OPERATION, THE DX COOLING SYSTEM AND THE HEAT PUMP SHALL BE OPERATED IN SEQUENCE BY THE DIGITAL CONTROLLER TO MAINTAIN THE SPACE TEMPERATURE AS SET AT THE TEMPERATURE SENSOR. UPON A FIRST CALL FOR COOLING, THE DX COOLING SYSTEM SHALL BE OPERATED (BINARY OUTPUTS) TO MEET THE DEMAND. WHEN UPON A CALL FOR HEATING, THE HEAT PUMP SHALL BE OPERATED (BINARY OUTPUTS) TO MAINTAIN SPACE TEMPERATURE AS SET. REQUIRED MINIMUM OUTSIDE AIR FOR VENTILATION, AS SCHEDULED, SHALL BE DETERMINED AT THE TIME OF SYSTEM START-UP BY THE AIR BALANCING CONTRACTOR.

ALL CONTROL SETTINGS TO BE ADJUSTABLE THROUGH THE TOUCH PAD INTERFACE

**OPTIMUM START-STOP:**  
OPERATION OF AIR CONDITIONING EQUIPMENT SHALL BE INITIATED AT THE MOST ECONOMICAL TIME TO ACHIEVE THE PROGRAMMED SPACE TEMPERATURE IN THE CONTROLLED SPACE JUST BEFORE THE OCCUPANCY EACH DAY. THIS SHALL BE ACCOMPLISHED, WHEN NECESSARY, BY OPERATING THE AC UNITS EITHER IN THE MORNING WARM-UP MODE OR THE MORNING PRE-COOL MODE PRIOR TO THE TIME OF OCCUPANCY. THE DIGITAL CONTROLLER SYSTEM SHALL MONITOR THE OUTSIDE AIR TEMPERATURE AND SELECTED INTERIOR SPACE TEMPERATURES EACH DAY AND WHEN THE REQUIRED OCCUPANCY IS TO OCCUR AND BASED ON THE RELATIONSHIP OF THOSE TEMPERATURES, INITIATE EITHER A MORNING WARMUP OR PRE-COOL PROCEDURE SEQUENCE.

MORNING WARMUP:  
THE HP UNIT SHALL BE OPERATED WITH THE DX COOLING SYSTEM DISABLED AND THE HEAT PUMP SYSTEM IN OPERATION.

MORNING PRE-COOL:  
THE HP UNIT SHALL BE OPERATED WITH THE HEAT PUMP SYSTEM DISABLED AND THE DX COOLING SYSTEM IN OPERATION.



**NOTES:**

1. SEE SCHEDULES AND PLANS FOR QUANTITIES AND LOCATIONS
2. MOUNT PLENUM RATED CONTROLLER ON OR ADJACENT TO INDOOR UNIT
3. PROVIDE CONTROL TRANSFORMERS AS REQUIRED.



**NOTES:**

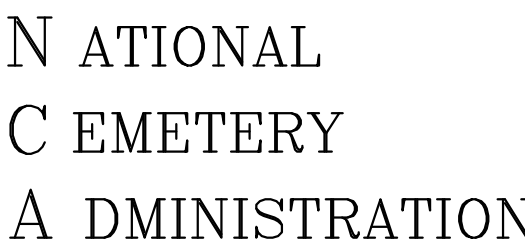
1. SEE SCHEDULES AND PLANS FOR QUANTITIES AND LOCATIONS
2. MOUNT PLENUM RATED CONTROLLER ON OR ADJACENT TO INDOOR UNIT
3. PROVIDE CONTROL TRANSFORMERS AS REQUIRED.



**NOTES:**

1. SEE SCHEDULES AND PLANS FOR QUANTITIES AND LOCATIONS
2. FOR SINGLE PHASE EXHAUST FANS, PROVIDE START / STOP RELAY SIZED FOR EXHAUST FAN HORSEPOWER RATING.

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