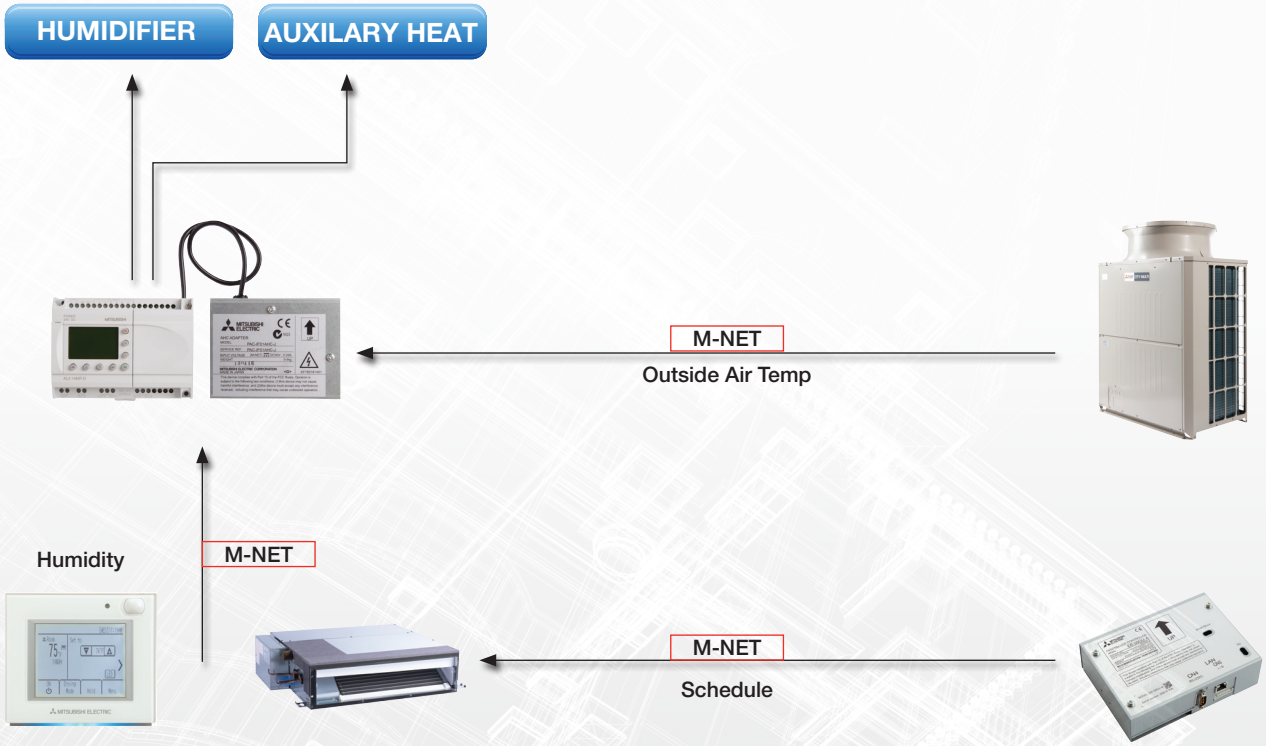
MITSUBISHI ELECTRIC
COOLING & HEATING

AdvancedHVAC Controller Application

Auxiliary Heating with Humidity Control



APPLICATION SUMMARY

Conceptualized in the Northeast United States to provide maximum year-round comfort, this application allows the occupant to use an auxiliary heat source as the main source of heating below a certain outdoor ambient temperature. The occupant will benefit from the more efficient CITY MULTI® system when outdoor ambient conditions are more favorable for comfort control by VRF. Additionally, this application will provide humidification to enhance occupant comfort.

The operator is also able to fine-tune the settings of this system via the LCD interface to the AdvancedHVAC controller.



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Control Sequence of Operation

CITY MULTI® Indoor Unit Control:
When the AdvancedHVAC controller determines, based on outdoor ambient conditions, that the CITY MULTI indoor unit is the primary source of temperature control, the CITY MULTI indoor unit will operate under its internal controls to maintain comfort.

Auxiliary Heat Operation:
When the AdvancedHVAC controller determines, based on outdoor ambient conditions, that an auxiliary heat source should be the primary source of heating, the auxillary heat source will be utilized to maintain comfort.

Humidifier Operation:
Utilizing the SmartME controller to sense space relative humidity, the AdvancedHVAC controller will control a humidifier to maintain a minimum space relative humidity.

I/O Summary

Point Description	M-NET Points				Hardware Points			
	Digital Output	Digital Input	Analog Input	M-NET Value	Digital Output	Digital Input	Analog Output	Analog Input
Space Temperature			X					
Space Temperature Setpoint			X					
Space Humidity			X					
Space Humidity Setpoint			X					
IDU Mode				X				
Humidifier Enable					X			
Radiant Heat Enable					X			
Outdoor Unit Temperature			X					

This application requires start up by factory authorized personnel. The application will be purchased and installed by others. A factory authorized person will start up and program the AdvancedHVAC controller. Please contact Mitsubishi Electric Cooling & Heating Professional Solutions Group for pricing and availability.

Model Number: AHA-02-A

Part Number	Qty	Description	Manufacturer
DC-A2IO	1	AdvancedHVAC IO Controller	Mitsubishi Electric
PSMN-40A24DS	1	120VAC - 24VDC 40A Power Supply	FDI
RIBU1C	2	24VDC SPDT Relay	FDI

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