

Ice House



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Dry Mode

Mitsubishi Electric / HVAC Division offers air conditioning equipment specifically for thermal comfort conditioning. While the units are designed for cooling and in the case of Heat Pumps for heating and not for humidity control there is a function to reduce the latent content in the air. Dry Mode is the operating mode for Mr. Slim and CITY MULTI indoor units used to reduce the moisture content of the air in the conditioned space served by the indoor unit – without significantly reducing the room temperature.

The reduction is accomplished by reducing the airflow across the indoor coil and controlling the temperature of the coil surface so that the surface remains slightly below the dew point of the return air. The coil temperature is maintained by a combination of time based compressor or LEV - Linear Expansion Valve – operation, temperature output information from the smart coil and room temperature sensor input.

Dry Mode is available on all of the Mitsubishi Electric / HVAC indoor units and is selectable on Mr. Slim M or P Series via the unit's Remote Controller (Wired or Wireless) or in the case of CITY MULTI by the local controller, central controller (G-50A / GB-50) or the TG-2000 software.

Dry Mode is selected by pressing the MODE button until the display reads "Dry". Then from the SET TEMP buttons the desired space temperature is selected to control room comfort. To use Dry Mode the room temperature must be greater than 65°F.

In Dry Mode, the indoor fan runs on very LOW speed during compressor operation (Mr Slim 1:1 Systems) or when the LEV is open (Mr. Slim Multi Zone or CITY MULTI Systems). The fan speed cannot be changed using the remote controller while in Dry Mode. Operation is a combination of time based cooling related to setpoint and space temperature. An example of the operating sequence is shown in the chart below.

CITY MULTI	THERMOSTAT	ROOM TEMP	Indoor LEV	
			ON	OFF
CALLING		82° or more	9 Minutes	3 Minutes
CALLING		79° - 82°	7 Minutes	3 Minutes
CALLING		75° - 79°	5 Minutes	3 Minutes
CALLING		64° - 75°	3 Minutes	3 Minutes
CALLING		less than 64°	--	Always
SATISFIED		64° or more	3 Minutes	10 Minutes
		less than 64°	--	Always

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