



MODEL 63 PACKAGE

Includes Modulating Humidistat, Duct Sensor, Blower Activation Relay and Outdoor Temperature Sensor

The Model 63 Automatic Digital Modulating Control (ADMC) package is the recommended humidistat for the AprilAire modulating steam humidifier, Model 801.

WALL MOUNTED CONTROL FEATURES

- Microcomputer based design with proportional algorithm providing exceptional accuracy
- Digital display large LCD with backlight with humidification and dehumidification indicators
- Outputs controls humidification and dehumidification equipment
- Output signals on/off and/or proportional outputs provides greater flexibility
- Modulating output signal provides a 0 to 10VDC or 2-10VDC proportional control signal to the humidifier.
- Integrated sensor or remote duct sensing for better application flexibility
- Programable proportional band to increase or decrease the sensitivity of the humidifier control
- Humidity set point adjustable from 0 to 100% relative humidity
- Humidity setpoint reset based on outdoor temp. Prevents window condensation in colder climates
- On-off signal 24VAC dry contact capable to handle up to 1 amp
- Proportional high limit override prevents overhumidification within the duct and costly water damage
- Multi-level lockable access menu and lockable set point prevent accidental changes
- Indicator when outdoor temperature setback is used for winter compensation
- Selectable Celsius or Fahrenheit scale

SPECIFICATION SHEET

Model 63/5558

Automatic Digital Modulating Humidifier Control



MODEL 5558 PACKAGE Includes Modulating Humidistat and Outdoor Temperature Sensor

The Model 5558 Automatic Digital Modulating Control package is the recommended humidistat for the AprilAire modulating steam fan pack ductless humidifier, Model 866.

OUTDOOR TEMPERATURE SENSOR

When used with the wall mounted humidistat the humidity set point is automatically readjusted based on the difference between the room temperature and the outside temperature to prevent window condensation.

INCLUDED IN MODEL 63 PACKAGE ONLY

DUCT HUMIDITY SENSOR FEATURES

- Proportional Duct Sensor can be used as the primary measurement of the relative humidity in the duct instead of the room and responds to the needs of wall mounted humidistat
- When not used as the controlling sensor, the Duct Sensor can be use as a proportional high limit override – provides a feedback to the wall mounted humidistat to prevent condensation in the duct.

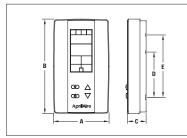
BLOWER ACTIVATION RELAY

Allows the humidistat to turn the HVAC blower when there is a call for humidity, even when the HVAC system is idle to add humidity to the premisses.

PRODUCT SPECIFICATIONS				
Modulating Humidistat				
Outputs	Actual humidity (0-100% RH), 0-10 VDC / 2-10 VDC Humidity set point (0-100% RH) 0-10 VDC / 2-10 VDC Humidification proportional control signal, 0-10 VDC / 2-10 VDC Dehumidification proportional control signal, 0-10 VDC / 2-10 VDC Humidification dry contracts 24 VAC, 1 A max, 3 in-rush Dehumidification dry contracts 24 VAC, 1 A max, 3 in-rush			
Inputs	Window temperature sensor or outside temperature sensor (10k Ω) External set point from AprilAire humidifier, external humidity sensor (0-10 VDC / 2-10 VDC) or high limit (0-10 VDC / 2-10 VDC) 1 alarm status digital input (24 VAC or dry contact)			
Power supply	22 to 26 VAC 50/60 Hz or 28 to 32 VDC			
Power consumption	1 VA			
Set point range	10 - 90% RH (in 1% increments)			
Sensor precision	± 3% or better at 40% RH and 73°F (23°C)			
Proportional band	2% to 10% for control signal			
Electrical connection	18 AWG (0.8 mm²) minimum			
Operating condition	32°F to 104°F (0°C to 40°C), 0−95% RH			
Storage condition	14°F to 122°F (-10°C to 50°C), 0-95% RH			
Temperature compensation reset feature	Automatic readjustment of set point from and Ourdoor Temperature Sensor (included)			
Weight	0.35 lb (160 g)			

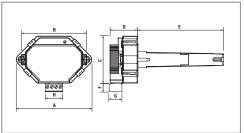
PRODUCT SPECIFICATIONS			
Duct Sensor			
Power supply	22 ± 10% VAC or VDC		
Power consuption	1 VA		
Electrical connection	18 AWG minimum		
Set point range	10 - 90% RH (in 1% increments)		
Output	0-10 VDC, Humidity set point (0-100% RH)		
Sensor precision	± 3% at 40% RH and 73°F (23°C)		
Relative Humidity Range	0-100% RH		
Operating temperature	-40°F to 176°F (-40°C to 80°C)		
Storage condition	14°F to 122°F (-10°C to 50°C), 0-95% RH		
Weight	0.30 lb (130 g)		

AUTOMATIC DIGITAL MODULATING CONTROL DRAWING



Dimension	Inches (in)	Metric (mm)
A	2.85	73
В	4.85	123
	1.00	24
	2.36	60
E	3.27	83

DUCT SENSOR DIMENSIONAL DRAWING



Dimension	Inches (in)	Metric (mm)
A	3.50	89
В	3.00	76
С	2.16	55
D	1.30	33
E	3.95	100
	0.37	9.5
G	0.60	15
Н	0.80	20

