



# VAL-CO® Controls Automate Ventilation.

## Ovation Series

### Display and Set-up Panel:

- 5 character LED display screen shows longer descriptions
- Indicator lights for output status - show ventilation system at a glance
- Defective probe pilot light
- Independent temperature probe inputs – individual readouts
- 16 or more parameters accessed by dial – protection with lock out mode switch preventing accidental or unauthorized changes

### Control Features:

- Displays absolute temperatures for all stages
- Inside and outside High/Low temperatures for room average recordings
- Optional humidity probe with RH compensation
- Compatible with potentiometer feedback air inlet control
- Minimum Vent Timer selects desired time on and off – no limitations
- On/Off stages have selectable 2° F offset
- Sequential power-on with 5 second delay between stages
- Full-speed fan start-up for 2 seconds on variable output
- Motor curves for variable speed fans
- Ramping functions – 10 different set points – adjustments for current day
- Adjustable heater offset & differential
- 2 heating stages possible for controls w/2 or more thermo stages
- Dual zone heat mode allows 2 heaters on a single stage w/individual sensors
- Easy access to internal adjustments – snap on latch

### Alarm Features:

- Test mode – runs through sequence to test settings and equipment
- Alarms for High/Low and critical temperatures plus power failure
- Offset alarm for mist, heat and stage 2
- Includes standard alarm output

### Curtain Setup:

- Simplified curtain/winch set-up using targeted temperature (absolute values)
- Curtain/winch can be set up to operate anywhere within ventilation control sequence
- Manual overrides for curtains
- Outdoor temperature influence on high alarm offset and curtain logic
- Normal and progressive timing option for curtains
- Built-in adjustable timer on natural ventilation stages



## The VAL-CO Family

- Watering Systems
- Feed Bins, Fill Systems
  - Feeders
- Ventilation Fans
  - Inlets
  - Heaters
- Evaporative Cooling
- Whole House Controllers™
  - Incinerators
- Crates, Stalls, Penning
  - Flooring



Performance You Can Count On



**Ovation 113**

- 5 – Stage Control for Power/Natural Applications
- 1 Variable Speed Stage
- 1 Curtain Winch Stage
- 1 On/Off Ventilation Stage
- 1 Mister Cycle Stage
- 1 Heater Stage



**Ovation 214**

- 7- Stage Control for Power/Natural Applications
- 2 Variable Speed Stages
- 1 Curtain Winch Stage
- 2 On/Off Ventilation Stages
- 1 Mister Cycle Stage
- 1 Heater Stage



**Ovation 224**

- 8 – Stage Control for Power/Natural Applications
- 2 Variable Speed Stages
- 2 Curtain Winch Stages
- 2 On/Off Ventilation Stages
- 1 Mister Cycle Stage
- 1 Heater Stage



**Performance You Can Count On**  
[www.val-co.com](http://www.val-co.com)

**Specifications**

**TEMPERATURE RANGE**

- Operation:** . . . . . From 32° F to 122° F (0° C to 50° C)
- Storage:** . . . . . From -4° F to 131°F (-20° C to 55° C)
- Readout:** . . . . . From -40° F to 120° F (-40° C to 48.9° C)
- Adjustable set point:** . . . . . From -40° F to 120° F (-40° C to 48.9° C)

**POWER SUPPLY**

- Voltage:** . . . . . 115 or 230 VAC (selection switch)
- Frequency:** . . . . . 50 or 60 Hz (auto-adjustment)
- Fuse:** . . . . . 250 mA, general purpose
- Circuit protection:** . . . . . Feed overload and over-voltage protection (outputs)

**OUTPUTS**

<b>No. of outputs:</b> . . . . . 22	2 variable and 2 on/off
24	2 variable and 4 on/off
113	1 variable and 5 on/off (including curtain relays)
214	2 variable and 6 on/off (including curtain relays)
224	2 variable and 8 on/off (including curtain relays)

- Fan motor curves:** . . . . . Choice of 10 motor curves for variable speed fans
- Alarm relay:** . . . . . 30 V, 1 A, NO & NC, 1 A fuse (general purpose)
- On/Off relays:** . . . . . 1 HP @ 250 VAC; 0.5 HP @ 125 VAC  
 10 A @ 125/250 V (RES.)

**TEMPERATURE PROBES**

- No. of temperature probes:** . . . . . 1 Standard, 3 optional
- Model:** . . . . . ZC1353
- No. of wires:** . . . . . 2
- Temperature range:** . . . . . -40° F to 168.8° F (-40° C to 76° C)
- Extension:** . . . . . Can be extended up to 700 ft. (213.36 m)

**HOUSING**

	Height	x	Width	x	Depth
<b>Dimensions:</b> . . . . .	10 in. (25.40 cm)	x	12 in. (30.48 cm)	x	6 in. (15.24 cm)
<b>Weight:</b> . . . . .	6 lbs. (96 gm)				
<b>Material:</b> . . . . .	PVC				
<b>Norms:</b> . . . . .	NEMA				

**\*Water and dust-tight; protected both indoors and outdoors against splashing water, seepage and falling water or hose-directed water and severe external condensation.**

**Call your local VAL-CO representative or distributor for more information on these and our other fine products.**

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