



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
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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

No. of outputs:	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
Dimensions:	10 in. (25.40 cm)	x	12 in. (30.48 cm)	x	6 in. (15.24 cm)
Weight:	6 lbs. (96 gm)				
Material:	PVC				
Norms:	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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