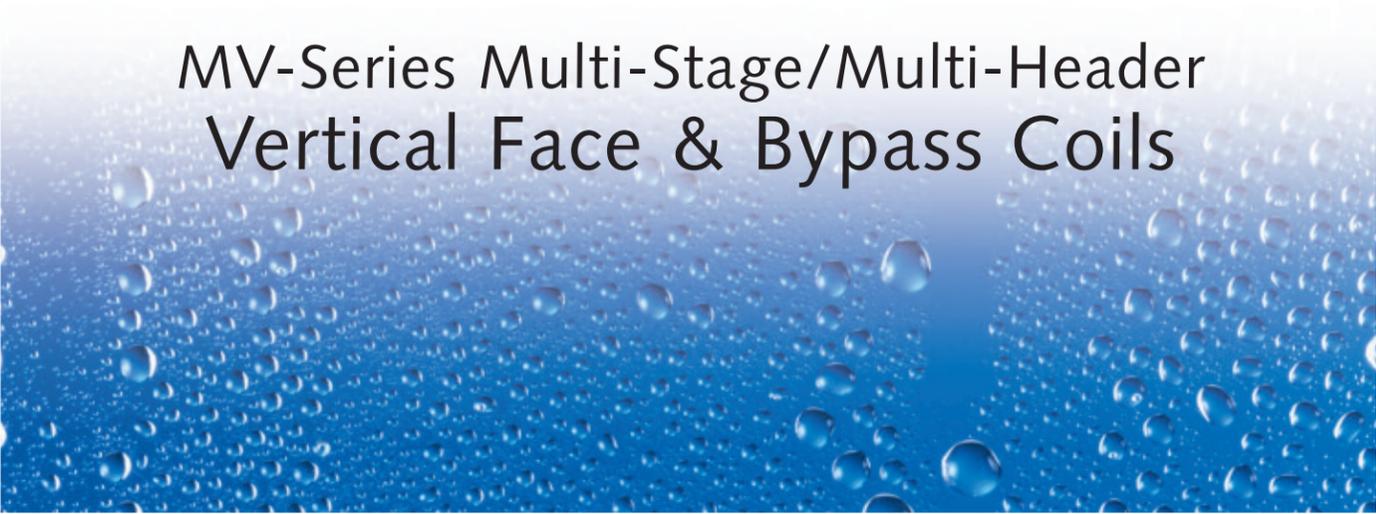




The Heavy-Duty Hydronics Experts

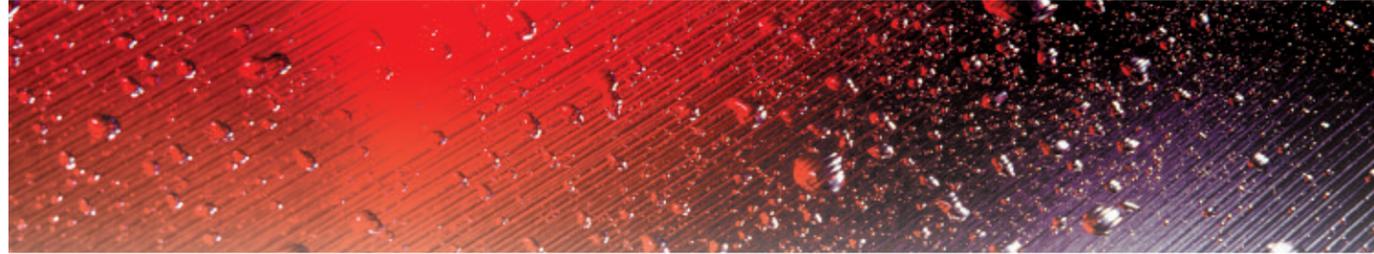
Make-up Air, Air Handling, and Innovative Design  
for Demanding Environments

# MV-Series Multi-Stage/Multi-Header Vertical Face & Bypass Coils



The Heavy Duty Hydronics Experts

# Multi-Stage Heating Coils



## Max control. Serious performance

If you're looking for maximum control, performance and durability from your air handling system, you've found it. LJWing's multi-stage face and bypass coils give you unmatched temperature control flexibility and offer more reliable variable air volume (VAV) operation, greater freeze protection and ease of installation than any other coil available. The breakthrough is our unique dual headers – two heavy-duty inlet manifolds – that make this unit a powerful component of any air handling system.

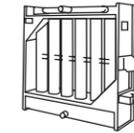
The multiple headers are controlled by slow acting on/off valves and together they provide close control of steam or hot water volume in the coils. This translates to better control in VAV systems. With increased damper control the MV-series coils also minimize temperature stratification and frezestat trips in mild weather.

In total, LJ Wing's MV-series coils are an ideal component for any air handling system; one that delivers VAV with little temperature override, uniform air temperature, and maximum freeze protection.



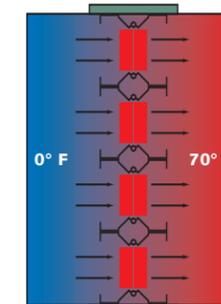
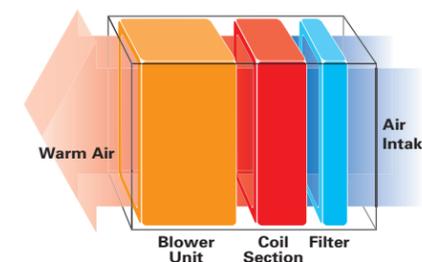
- ▶ Heavy-duty steam or hot water inlet manifolds with separate valves selectively activate the circuits depending upon the temperature required by the control system.
- ▶ Direct-coupled, face-mounted actuator provides 10–35% improvement in space usage, reducing casing size or expanding usable coil area.
- ▶ Rigid structural framework and connecting flanges both up and downstream of the coil make connection to roof/wall intakes or duct work simple.
- ▶ Integrated dampers maintain constant air volume and pressure drop.

# Multi-Stage Heating Coils



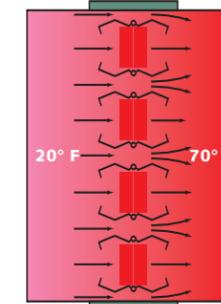
## High-end performance from 0 to 70

Whether the entering air is 0°, +20°, +55° or +70°, the integration of dampers and bypass sections gives you maximum performance – including superior freeze protection through constant steam/hot water pressure in coils – and eliminates the need for additional control valves or bypass. Performance also means durability, which we achieve through damper hinges that pivot on steel rods with nylon and brass bearings.



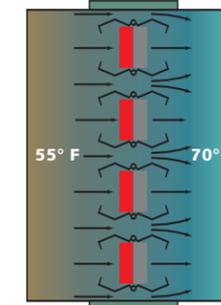
### For 0° Entering Air

Both coil circuits are fully active and the clamshell damper blades are completely open to allow maximum temperature rise. The face mounted blade actuator is responding to a discharge temperature sensor.



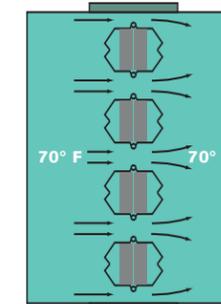
### For +20° Entering Air

Both coil circuits are fully active and the clamshell damper blades are slowly closing to modulate temperature rise. The face mounted blade actuator is responding to a discharge temperature sensor.



### For +55° Entering Air

The second coil circuit is no longer active and the clamshell damper blades are modulating to control temperature rise from the first circuit only. The face mounted blade actuator is responding to a discharge temperature sensor.



### For +70° Entering Air

Both coil circuits are no longer active and the clamshell damper blades are fully closed to allow complete bypass air flow with no temperature override.