



*The Money Store Administrative Building, West Sacramento, CA*

Headquartered in West Sacramento, California, The Money Store's existing facilities were inadequate for its growing staff. To help with its consolidation and expansion, The Money Store contracted with E.M. Kado and Associates to design a new facility to meet their needs. Wanting to complement and enhance the West Sacramento skyline, E.M. Kado and Associates designed the new building with a distinctive tiered appearance.

The mechanical systems in this unique building were designed and installed by Airco Mechanical, Inc. They selected several Ruskin products to control the ventilation system and provide the HVAC life/safety protection. Norman Wright Mechanical Equipment, Co., Ruskin's Sacramento representative, provided expert support to complete the design, installation and commissioning of the system.

The HVAC system includes chillers installed in the basement level. With two 74,000 CFM centrifugal fans, outside air and return air are directed to a large acoustical plenum. The system is designed with efficiency in mind and to meet ASHRAE 62-89 recommendations. The HVAC system also includes life safety protection which, in case of a fire, helps prevent flame spread and smoke migration within the building, including the four-story atrium.

## Money Store Expansion Includes Several Ruskin HVAC Products

The Money Store building expansion project incorporates several Ruskin products that control the ventilation system and provide HVAC life/safety protection. These include:

- IAQ50 Air Flow Measuring Control Dampers
- CD36 Control Dampers
- CBS7 Fan Discharge Backdraft Dampers
- CD80VG2 Fan Discharge Dampers
- FSD36 Fire/Smoke Dampers
- FSD36C Corridor Fire/Smoke Dampers
- IBD40 Integral Sleeve Fire Dampers



# Case Study

## THE MONEY STORE



Airco selected the Ruskin IAQ50 air flow measuring and control damper to control the minimum outside air and report the information to the Building Automation System (BAS). The IAQ50 damper is installed in the outside air plenum. This is matched with Ruskin's CD36 low leakage dampers which are installed in the outside air openings of the plenum. The outside air dampers remain in the full closed position except when the building's controls signal a free cooling condition. When the outside air dampers open, the IAQ50's flow measuring and control functions are bypassed. When the outside air dampers close, the IAQ50 returns to measuring and controlling the minimum outside air. CD36 dampers are also installed in the plenum wall to control the return air path.

Ruskin CD80VG2 dampers are installed on the discharge of the return and supply air centrifugal fans to prevent air backflow if one fan is off-line for maintenance. A Ruskin CBS7 backdraft damper is installed on the discharge of the smoke exhaust fan located in the

Penthouse. The damper prevents backflow into the smoke exhaust system when the system is not in operation.

To help protect the employees and provide a safer environment, Ruskin fire dampers and combination fire/smoke dampers are installed in HVAC penetrations of fire rated shaft enclosures, walls and corridors throughout the building.

All of the Ruskin combination fire smoke dampers include "Controlled Closure" design. This 3-15 second controlled closure design protects the HVAC system from instantaneous pressure shocks that occur without this important feature.

"Ruskin's complete product offering simplifies the HVAC design process," says Dean Schouweiler, Airco Mechanical Senior Project Engineer.

Bob Beyer, Norman Wright Mechanical Equipment, agrees. "Having the broad range of products Ruskin offers made this project a win-win for everyone involved. This job included a number of unique challenges and Ruskin provided the solutions."

These and many other Ruskin damper and louver products are available through our representatives. To learn more about our complete line of Ruskin products, or to locate the Ruskin representative nearest you, visit our website at [www.ruskin.com](http://www.ruskin.com) or call us at **(816) 761-7476**.

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