

# HVAC 'QUICK DISCONNECT' PLUG

## A better alternative to traditional disconnect switches



### • Increase Maintenance Efficiency

Safely disconnect and connect loads and quickly service equipment without needing an electrician on site.

### • Ensure Arc Flash Protection

Prevents exposure to arc flash and live parts, simplifies NEC and NFPA 70E compliance.

### • Provide Safety of a Switch

UL/CSA listed switch mechanism enables safe make and break of loads up to 200 A, 100 hp and eliminates need for auxiliary switches.

Switch-Rated 'Quick Disconnect' plugs and receptacles are a better alternative to non-fused switches for HVAC applications.



## Ideal for connecting power to . . .



**AIR HANDLING UNITS**

For NEC code compliance



**EXHAUST FANS**

For easy motor change-outs



**ODOROUS AIR REMOVAL FANS**

For plug-and-play installation



**SUPPLY FANS**

For arc flash protection

# APPLICATION NOTE

## Switch-rated Plugs & Receptacles:

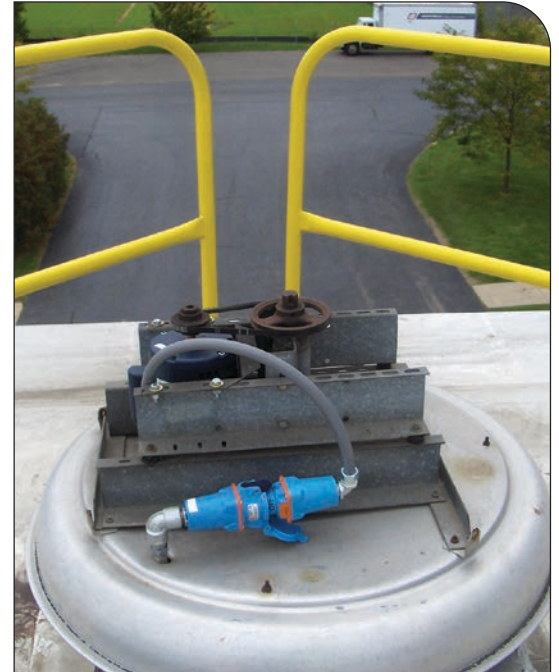
### Rooftop Exhaust Fan Connections at Lab Facility

## Application Challenge

**Meeting NFPA 70E Safety Requirement:** Many facilities have rooftop exhaust fans that require service, sometimes at the most inconvenient time. The NFPA 70E Standard for Electrical Safety in the Workplace requires the establishment of an electrically safe work condition at the fan before the service work is initiated. This includes properly interrupting the load current, visually verifying that all blades of the disconnecting device are open and applying lockout/tagout devices.

## Connection Solution

**Simplifies Rooftop Exhaust Fan Service:** A better alternative to hardwired disconnect switches is MELTRIC's Switch-Rated plugs and receptacles which are used to connect power to electrical equipment. With Switch-Rated plugs and receptacles installed, a technician can quickly and safely disconnect, repair or replace, and then reconnect exhaust fan motors. There is no need to climb up and down ladders to turn off remote disconnect switches, instead MELTRIC devices are used to switch off the fan. There is no need to wear cumbersome PPE while de-energizing because the safety shutter on the receptacle prevents access to live parts and once the plug and receptacle are disconnected they provide visual proof of equipment de-energization.

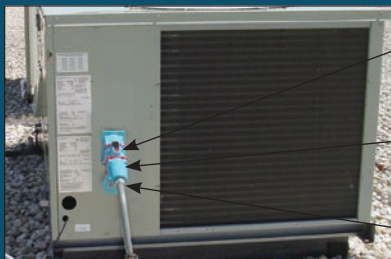


"With the MELTRIC Switch-Rated plug and receptacle installed there is no need to physically mount a disconnect within sight for smaller motors on the roof so this is a good solution for us," said Monique Newell, a maintenance specialist at Scientific Protein Laboratories (SPL).



# MELTRIC Advantages over traditional HVAC switches

## SWITCH-RATED PLUG/RECEPTACLE



Male inlet is easy to mount due to small mounting surface requirements.

Once removed, connector provides visual verification of de-energization. Male inlet can be locked and tagged out.

Enables plug-and-play equipment installation, no hardwiring required.

## NON-FUSED DISCONNECT SWITCH



**Danger:** Exposure to live parts. NFPA 70E requires PPE.

Larger mounting surface requirements

Requires hardwiring during installation or replacement.

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