



VIRTUAL MOVEABLE END CAP (VME)



AHRI CERTIFICATION

Air-Conditioning, Heating, and Refrigeration Institute



Multistack is AHRI Certified and continues to certify products as they are developed

AHRI Certification provides real performance data

Multistack has AHRI approved and certified test stands in-house

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 **MULTISTACK**[®]
Originators. Innovators. Never the Imitators.



Virtual Moveable End Cap--VME

- Variable Simultaneous Heating and Cooling
- Dramatically Reduces Piping and Electrical Costs
- Installed Footprint Meets Architectural Limitations
- Fully Expandable Modular System
- Multistack Controls Simplify System Operation

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Virtual Moveable End Cap (VME)



Smaller Footprint



Mircrocharge Refrigerant



Zero Fossil Fuels



Energy Efficiency



Energy Recovery



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III[®] MULTISTACK[®]

VIRTUAL MOVEABLE END CAP™ II

Patent Pending



1. SINGLE POINT ELECTRICAL CONNECTION FOR VALVES AND CONTROLLER
2. VME UNITS FACTORY ASSEMBLED AND WIRED
3. DISCONNECTING CIRCUIT BREAKER FOR EACH MODULE STANDARD
4. MODULATING VALVE FOR BUILT-IN HEAD CONTROL AND PRECISION WATER TEMPERATURES
5. NO REVERSING VALVES
6. VME VALVES NOT REQUIRED BETWEEN CONSTANT SIMULTANEOUS LOAD MODULES
7. COMPRESSOR RUN TIME EQUALIZATION
8. BUILT IN HEAT RECOVERY FOR SIMULTANEOUS EFFICIENCY
9. SINGLE REFRIGERATION LIFT FOR 30% MORE EFFICIENCY

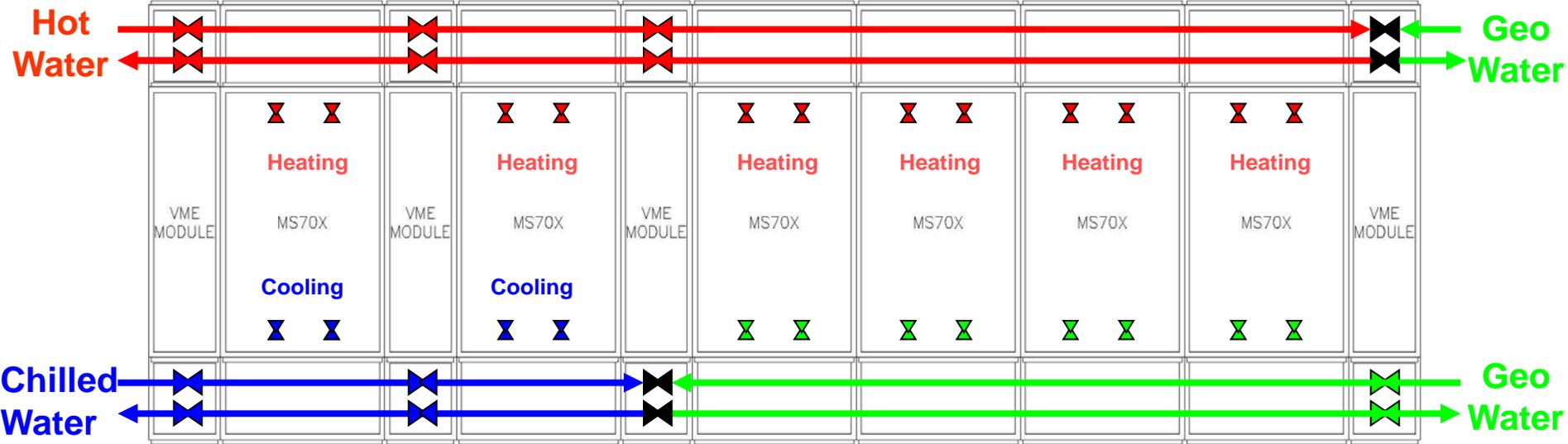
1065 Maple Avenue • Sparta, Wisconsin 54656 • P (608)366-2400 • F (608)366-2450
www.multistack.com

Multistack Geothermal Heat Pump With VME II Technology

Heating Dominant Mode & Simultaneous Cooling

Sized For Peak
Simultaneous Load

Heating Dominant Load

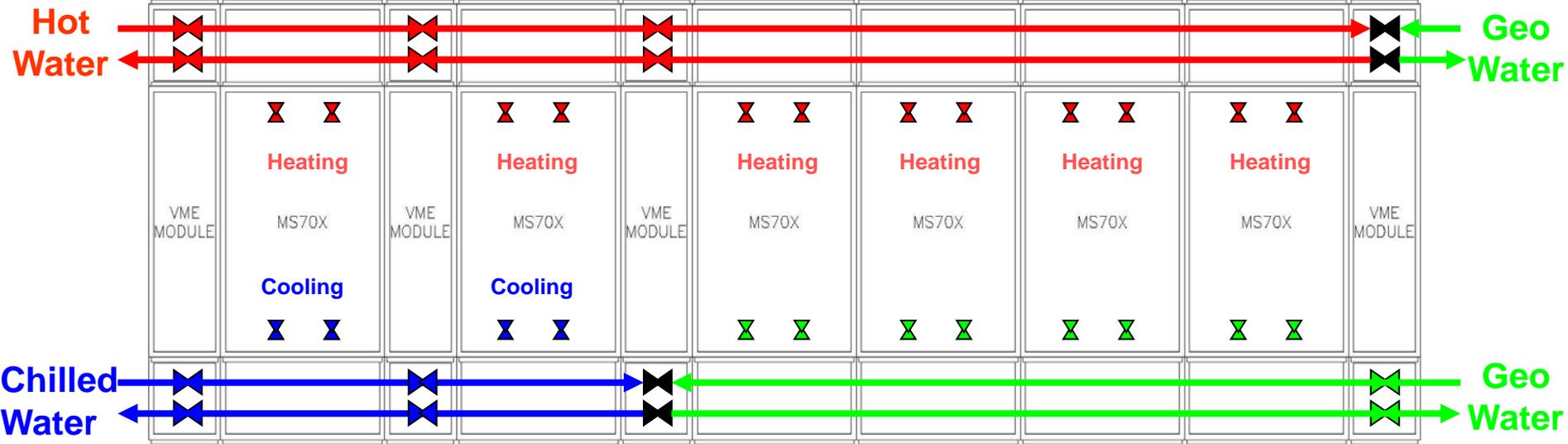


Multistack Geothermal Heat Pump With VME II Technology

Heating Dominant Mode & Simultaneous Cooling

Sized For Peak
Simultaneous Load

Heating Dominant Load

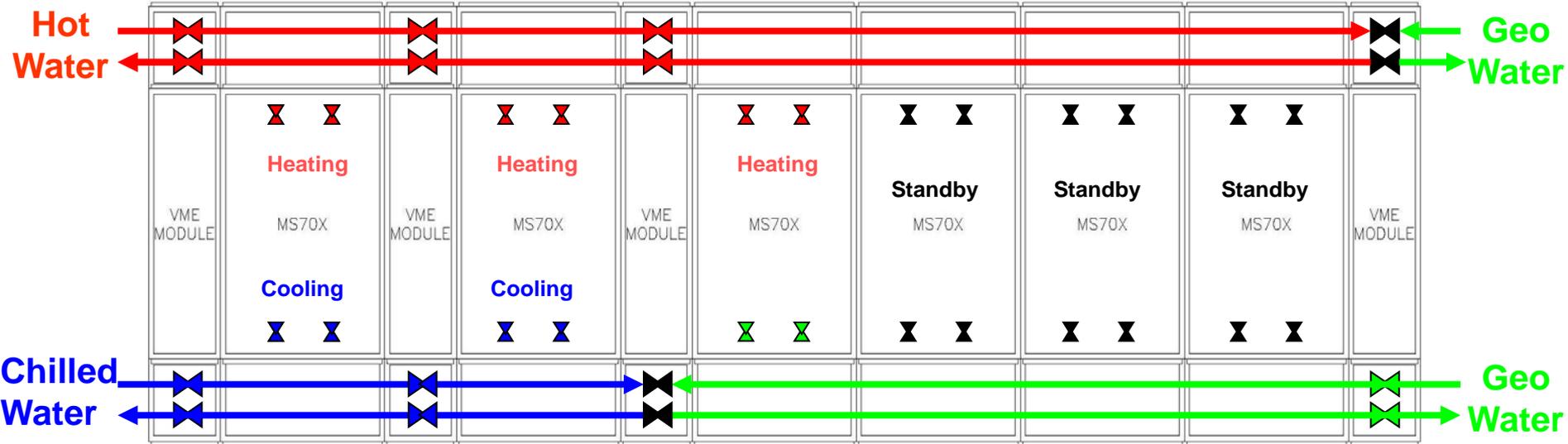


Multistack Geothermal Heat Pump With VME II Technology

Simultaneous Load & Part Load Heating

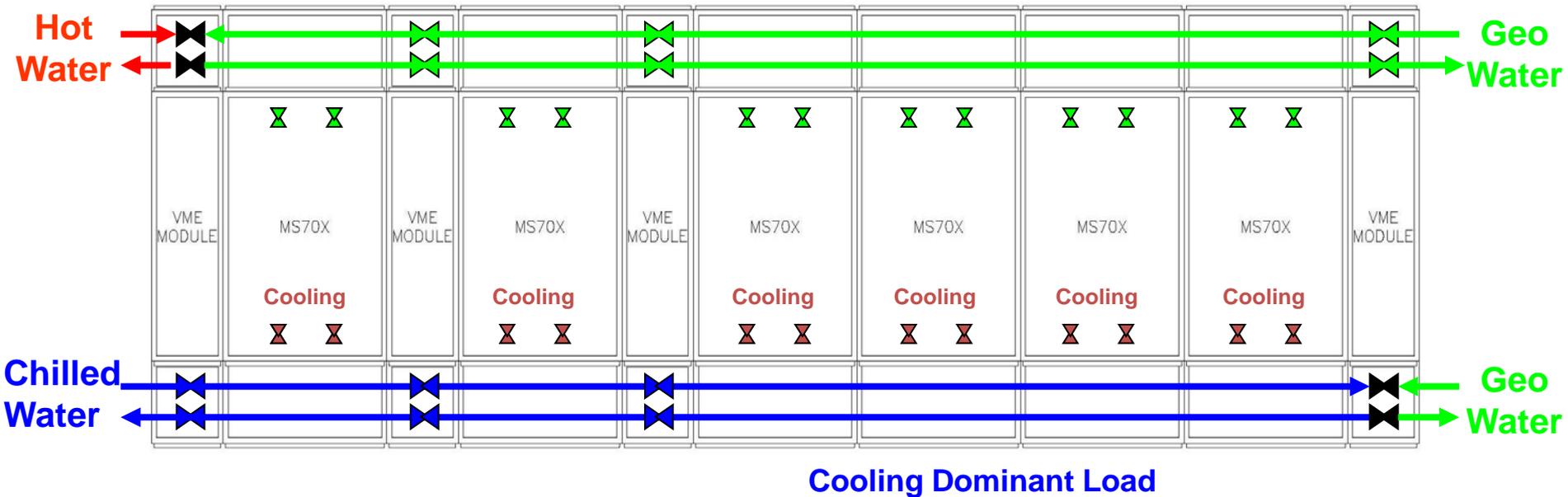
Sized For Peak
Simultaneous Load

Part Load Heating



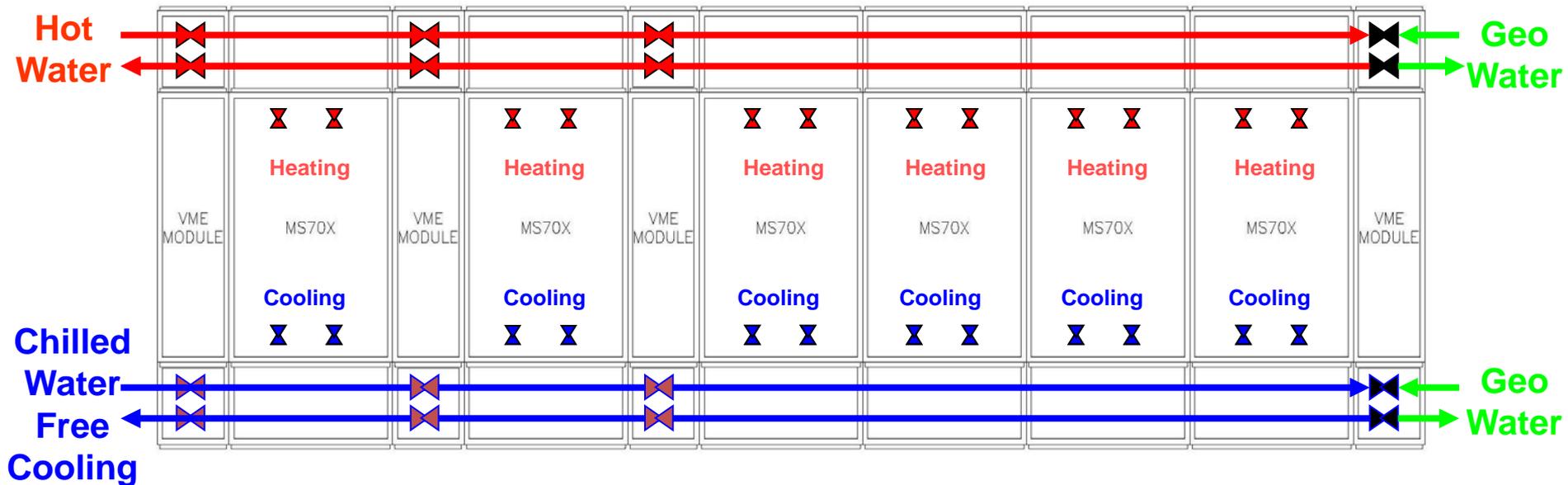
Multistack Geothermal Heat Pump With VME II Technology

Peak Cooling No Heating

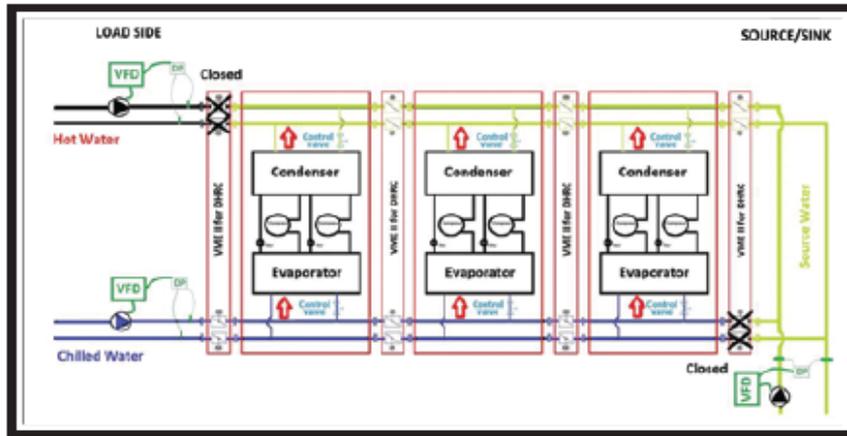


Multistack Geothermal Heat Pump With VME II Technology

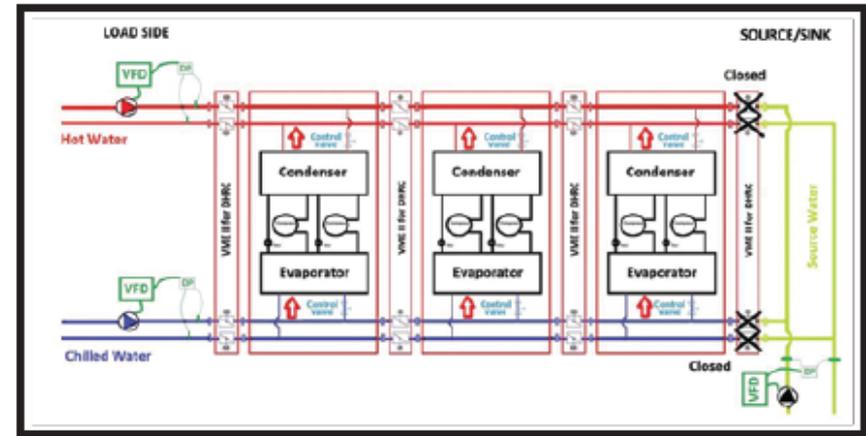
Peak Simultaneous



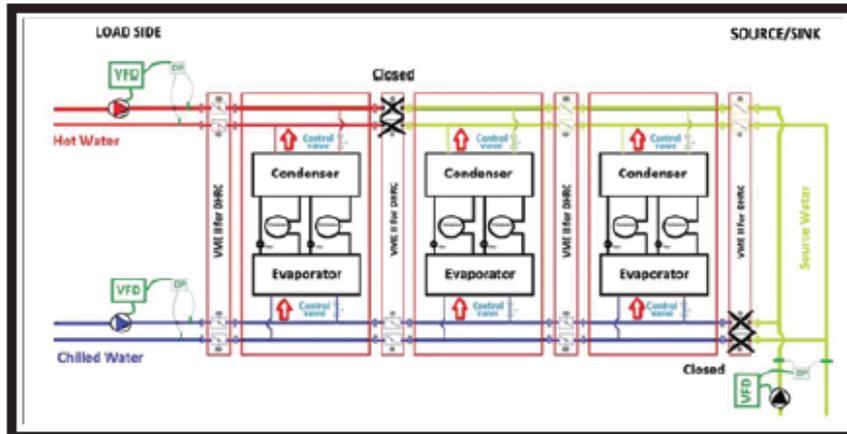
MULTISTACK® VME™ II Diagrams



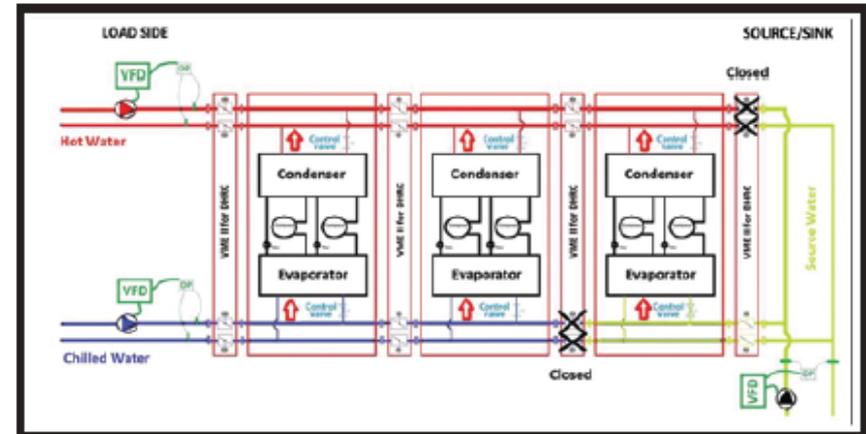
3-Cooling
0-Heating
3-Source/Sink
0-Simultaneous Load



3-Cooling
3-Heating
0-Source/Sink
3-Simultaneous Load



3-Cooling
1-Heating
2-Source/Sink
1-Simultaneous Load



2-Cooling
3-Heating
1-Source/Sink
2-Simultaneous Load

Case Study - Virtual Moveable End Cap (VME)



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