

VME II_V

CENTRAL STATION
CHILLER HEATER
TRUE VARIABLE SPEED™



MULTISTACK.COM

Customer driven innovation is powerful. Multistack's VME II is widely respected in our industry as the flagship of central station geothermal system design. **VME II** integrates a dedicated heat recovery function that eliminates the double-lift penalty incurred by distributed water-source heat pump systems when handling simultaneous load: all in factory pre-assembled and factory pre-tested package. With the deployment of True Variable Speed compressor technology. We've taken **VME II** to the next level of energy efficiency.

▪ **True Variable Speed technology delivers:**

- Broader envelope including 67% better uploading capability than scroll compressors with applied drives.
- Tangible efficiency gains at measurable 18-20% improvement in part-load energy usage
- Reduced energy consumption by eliminating drastic cycling often required of fixed speed scrolls
- Hot water temperatures to 145F
- Precision temperature control as compressor modulate to precisely control leaving water temperature
- Longer compressor life
 - compressor envelop constrained by embedded mapping
 - it becomes virtually impossible to drive compressors into dangerous areas of the operation map

▪ **True Variable Speed design**

- Factory matched integrated variable speed drive
- Positive displacement oil pump assures lubrication at low speed settings
- Embedded compressor map
- Improved energy efficiency
- Improved power factor
 - lower cable and transformer losses
 - improved voltage conditions



The Multistack Group

Customer Driven InnovationSM

The right choice for the future... today.

OUR MISSION

To design and build reliable, energy-efficient equipment that fully supports the transition from fossil fuels to renewables through electrification.

OUR VISION

To create a world where environmentally sensitive design practice, reliability, and redundancy coexist and are embodied in the world's most advanced HVAC equipment.

SUSTAINABLE CHOICES

At **Multistack**, we recognize and respect the importance of providing HVAC solutions that promote energy and water efficiency, utilize the best refrigerant choices available, and embrace the transition from fossil fuels to electrification.

Water and air-cooled **MagLev**[®] chiller platforms achieve superb efficiency across their full range of operation. Our unique **MagLev** chiller design and unrivalled Transitional Efficiency chiller control algorithms deliver outstanding part-load performance at all condenser-water or ambient temperature conditions. **MagLev** also offers refrigerant choices recognized worldwide as safer for the environment: R-1234ze, R-513A, and R-515B.

Our modular product's design allows you the freedom to use just enough energy to meet your current needs, while offering you the flexibility of incorporating additional modules as your operations grow. Minimizing embodied energy is an important design focus and we pride ourselves that our modular chillers deliver the industry's highest cooling and heating output per pound. If you're looking to cool and heat your building with as little environmental impact as possible, look no further than **Multistack**!

Reach out to your local Multistack design professional to discuss how we can help you realize your design goals for:

- Electrification
- Energy efficiency
- Water usage efficiency
- Energy & heat recovery
- Choosing sustainable refrigerants
- Minimizing refrigerant charge
- Minimizing embodied energy
- Minimizing environmental and physical footprint