



MFH

WATER-COOLED MAGLEV® 8-PIPE HEAT PUMP



MULTISTACK.COM

The future is now. Decarbonization has become the single most important new concept in the world of HVAC since the invention of vapor compression refrigeration. This means, quite simply, that everything we once did with natural gas, coal, and other fossil fuels will cease to exist. Legislation requires it, conscience demands it, and as engineering professionals our mission must be to provide decarbonization solutions.

Multistack's focus is on providing optimized solutions that support environmentally conscious design practice; that requires more than just an understanding of how to live and build sustainably. It requires that we develop new and radically different approaches to heating and cooling the built environment. We deploy cutting-edge technologies to provide the most effective, efficient, and sustainable solutions in the modular or packaged HVAC marketplace. *Join us on the journey as we trailblaze the way to the carbon-free horizon.*

MFH 8-PIPE marries the efficiency of Maglev with VME and provides an elegant pre-packaged/pre-engineered central station heating/cooling solution delivering the highest system efficiency available...

- Scaleable **MagLev** multi-compressor design delivers turndown across the entire operational envelope that packaged equipment with 1 or 2 compressors cannot achieve. This means greater system efficiency because extreme compressor cycling is avoided and longer compressor life because of the avoidance of surge.
- 8-PIPE is a geothermal friendly solution that can handle a wide range of temperatures from the Source/Sink.
- With cooling, heating, and simultaneous modes available, **Multistack MFH 8-PIPE** chillers offer numerous advantages in efficiency, simplicity, ease of installation, reliability, redundancy, and cost.
- **MFH 8-PIPE** eliminates reversing valves, increasing simultaneous load efficiency by up to 30%.
- **MFH 8-PIPE** operating algorithm automatically matches building heating and cooling load requirements by closing and/or opening the appropriate 8-PIPE valves-maximizing efficiency, all in coordination with the Building Automation System.
- Factory engineered and fitted controls, valves, and piping ensure precise temperature and head pressure control while eliminating costly job site labor and materials.
- Low GWP refrigerants with no phase-out date: R-513A, R-515B, R1234ze

MultiPRO™ Central Plant Controller is available with MFH

- **MultiPRO** can tie it all together as one "system"
- **MultiPRO** can control and optimize:
 - MSH_8-PIPE operation
 - Multi-chiller Central Plants
 - System bypass valve(s)
 - CHW pump(s)
 - HW pump(s)
 - Source/Sink pump(s)
- **MultiPRO** Central Plant Controller can be:
 - Factory mounted, wired, and tested
 - Or, shipped loose for field installation

Reach out to your local **Multistack** design professional to discuss how we can help you realize your goals on our common journey to the carbon-free horizon.



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 worlds 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 unrivaled Transitional Efficiency chiller control algorithms deliver outstanding part-load performance at all condenser-water or ambient temperature conditions.

MagLev chillers offer refrigerant choices recognized worldwide as safer for the environment: R-1234ze, R-513A, and R-515B. **Multistack** scroll chillers offer R-454B as the replacement for the high GWP R-410A. R-454B has a GWP of 466, which is 78 percent lower than R-410A. We encourage you to explore our natural refrigerant offering as well.

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:

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