

Smart Heat Pump Control System

For High-End Residential &
Light Commercial Applications

New Smart Heat Pump Control System

This integrated solution offers a complete package — including the controller, expansion unit, mixing expansion, and 6-way diverting valves — all from a single manufacturer. Designed for efficiency and scalability, the Smart Heat Pump Control System:

- Pre-configured components and pre-insulated diverting valves reduce labor
- Scales both 2- or 4-pipe systems from 4 to 16 heat sources
- Supports one backup boiler or boiler loop
- Simplifies configuration and troubleshooting with an intuitive Setup Wizard
- Supports dual-fuel systems and simultaneous heating/cooling
- Works with most heat pumps and thermostats
- Offers floor cooling/indoor feedback with tekmarNet® thermostats
- Enables remote monitoring and adjustments through Nexa connectivity



Smart Heat Pump Control System Components at a Glance



Smart Heat Pump Control 291

- Dual-fuel capability
- Setup & commissioning wizard
- Programmable schedule
- Outdoor reset
- Viewable on tekmarNet portal
- Connects with Nexa



Smart Heat Pump Expansion 291EXP

- Expands system to 16 heat pumps (in groups of 4)
- All connections for heat pumps and diverting valves



Smart Mix Expansion 295

- Mix supply sensor
- Mix call
- Mix actuator
 - Floating action
 - 0-10 Vdc
 - 4-20mA
- Variable speed injection
- Diverting valve
- Up to 3 expansions can be connected to 291



6-Way Diverting Valve Panel 731 & 732

- Packaged valve assembly with relay board
- Pre-insulated valve bodies
- Reversible logic
- 1" and 1 1/4" female national pipe threads



Nexa Connectivity

- Remote access for maintenance and troubleshooting
- Real-time alerts
- Full maintenance transparency
- Historical data charting
- Searchable event log
- Event resolve
- No-cost access

Learn More



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