

Cascade manager

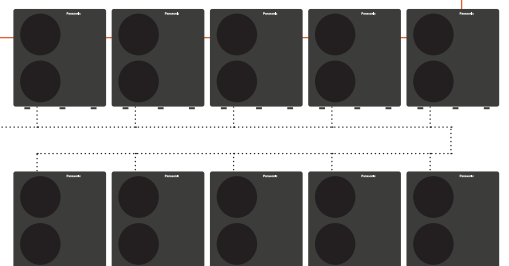
Designed for central heating projects, small hotels, supermarkets and restaurants, the cascade manager manages the demand for energy-efficient heating and cooling balancing working hours.

New **2024**



Up to 10 heat pumps (up to 300 kW)

- Cascade up to 10 units
- Heating and cooling control
- Domestic hot water (DHW) control
- Management up to 75 °C (L or M Series)
- Provides total energy consumption and generation
- All components in one case
- BMS integration



New cascade manager

PAW-A2W-CMH-3

Cascade up to 10 heat pumps, getting up to 300 kW, with a large, easy-to-use touch screen display, providing intuitive control.

- Photovoltaics integration (PV optimised algorithm)
- Control of 3 way valves for cooling (2 buffer tanks)
- Heating/cooling 0-10 V demand signal – controls target outlet temperature
- Energy meters compatibility
 - Meters communication with Modbus RTU
 - Pre-configuration of 4 market popular meters
- BMS integration via Modbus TCP
- Working mode: entire system in heating/cooling or DHW by priority



Compatible with Aquarea Heat Pumps from H Series onwards ¹⁾.

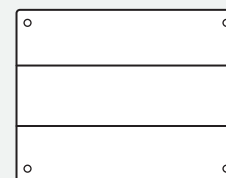
1) Requires 1 CZ-NSMB or 1 PAW-AZAW-MBS-M per each Aquarea Heat Pump.

New Aquarea Cascade Edge

PAW-A2W-CME4 and PAW-A2W-CME10

Cascade up to 4 or 10 Aquarea Heat Pumps, also in combination with ECOi-W AQUA chillers and heat pumps, and get up to 750 kW ¹⁾. Remotely control your units with a local web visualization via smartphone, tablet or PC.

- Local web visualization of the cascade controller
- Easy connection with smartphone, tablet or PC thanks to the Wi-Fi access point on the device
- 2 possible online management solutions:
 - P-Smart Nexus: easy access and global visualization of all your sites
 - Via customer VPN or MyDNS configuration
- Data ownership thanks to local data storage (no cloud storage)
- BMS Integration via BACnet IP
- Smaller buffer tank or smaller capacity unit thanks to 2 possible logic working modes
 - Possibility to combine all the heat pumps between heating/cooling and DHW, providing both simultaneously
 - Entire system in heating/cooling or DHW by priority
- Configuration wizard with default values



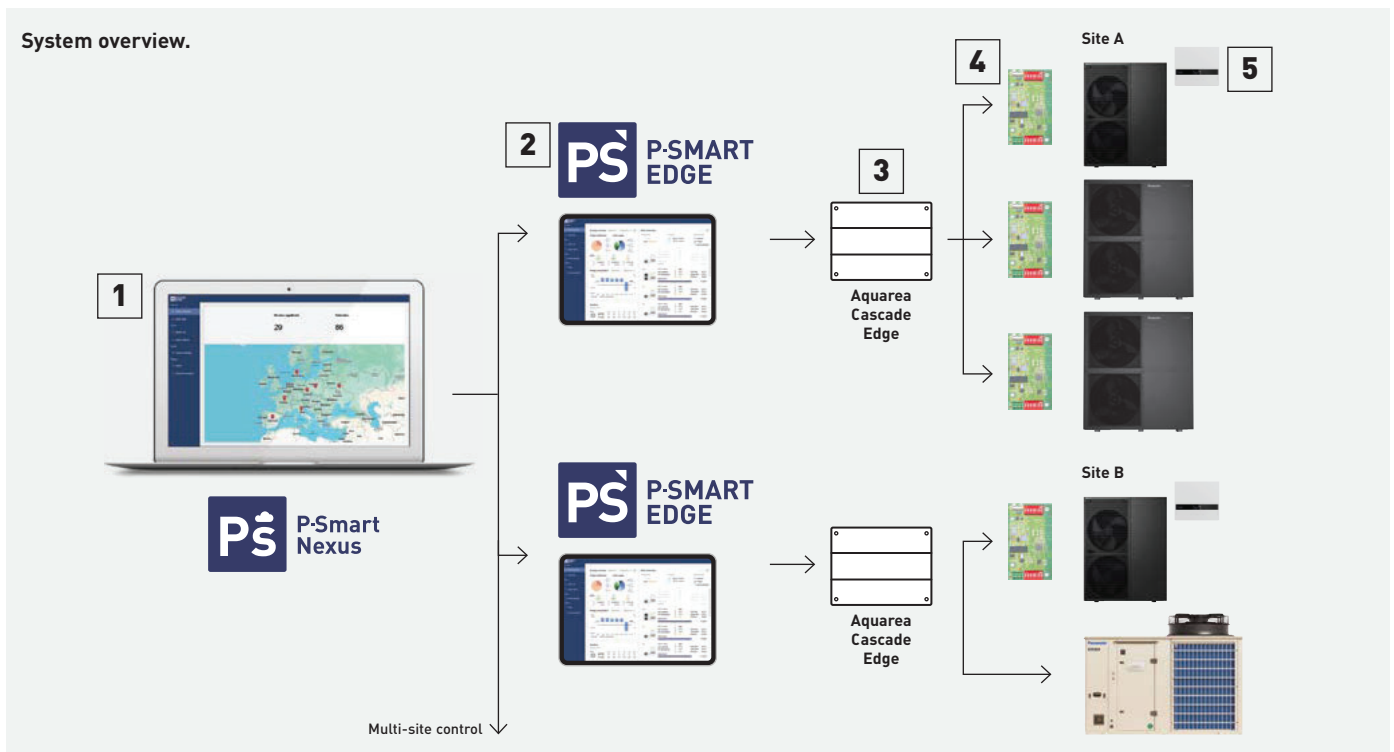
Compatible with Aquarea Heat Pumps from H Series onwards ²⁾.

1) Maximum capacity combining 1 Aquarea (master) + 9 ECOi-W AQUA-G BLUE 80 kW (slave). 2) Requires 1 CZ-NSMB or 1 PAW-AZAW-MBS-M per each Aquarea Heat Pump.

	PAW-A2W-CMH-3	PAW-A2W-CME4	PAW-A2W-CME10
Cascade up to number of heat pumps	Up to 10	Up to 4	Up to 10
Management of heat demand, balancing working hours	✓	✓	✓
Integration of photovoltaics (PV optimised algorithm)	✓	–	–
Connectable buffer tank	2 tanks	1 tank	1 tank
Heating/cooling 0-10 V demand signal	✓	–	–
BMS integration	Modbus TCP	BACnet IP	BACnet IP
Built-in touch screen display	✓	–	–
Management via smartphone, tablet or PC	–	✓	✓
Remote monitoring via P-Smart Edge	–	✓	✓
Multi-site control via P-Smart Nexus	–	✓	✓
Data statistics visualization	–	✓	✓

P-Smart Edge.

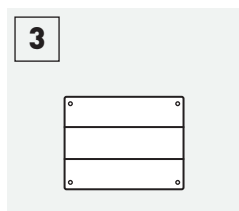
Control and monitoring solution for Aquarea cascade systems wherever you are. In a simple click, configure and receive status updates of all your units.



1 P-Smart Nexus.
Smart multi-site control which allows a remote global supervision of all your sites. Control your different installations wherever you are, with easy on-site network setup.



2 P-Smart Edge.
Control and monitoring solution for Aquarea cascade systems, even outside your installation site.



3 Aquarea Cascade Edge.
PAW-A2W-CME4 and PAW-A2W-CME10.



4 Modbus interface.
Requires 1 CZ-NSMB or 1 PAW-AZAW-MBS-M per each Aquarea heat pump.



5 Aquarea cascade system.
Master unit: control module or Bi-bloc mandatory + optional PCB.
Slave units: remote controller needed. Possibility of combination with other Panasonic commercial products [ECOi-W AQUA chillers and heat pumps].

Advantages



Powerful remote management with user-friendly interface.
 - Simple and intuitive home screen with: Plant overview, energy overview, DHW status and buffer and zone list
 - Alarm status and history
 - 3 different user profiles: facility manager, installer and maintenance
 - Online visualization, no installation of any specific software is required



Remote configuration of the technical parameters.
Possible configuration of:
 - Installation settings
 - Sterilization configuration (schedule)
 - Outdoor units silence mode (schedule)
 - Bivalent
 - SG Ready
 - COP ranking



Historical system data.
 - Graphs and data showing the energy overview related to periods of 7 days or 8 hours
 - Data stored for up to 2 years



P-Smart Nexus: smart multi-site remote management.
 - Remote global supervision of all your sites in one place
 - 24/7 control of all the installations
 - Easy connection to Aquarea Cascade Edge without special on-site network setup
 - 3-year subscription from the start-up included
 - Online visualization, no installation of any specific software is required

Note: User interface design may vary.