

## Cascade Controller for Samsung Eco Heating Systems

Item number: IN780CTR0XSO000

The Intesis Cascade Controller efficiently manages multiple air-to-water heat pumps, ensuring optimal energy savings. It constantly monitors the available tanks and outdoor temperature, resulting in precise temperature control and efficient load balancing among all units.



*Cascade Controller for Samsung EHS - Up to 8 A2W Units*

### Features and benefits

- ✓ **Control of up to 8 air-to-water heat pumps**  
Manage large heating/cooling systems for residential or commercial buildings efficiently.
- ✓ **Load balancing with rotation strategy**  
Extends the system's lifespan by evenly distributing runtimes among all heat pumps.
- ✓ **Domestic hot water (DHW) integration**  
Manages hot water production, including electric heater control for enhanced comfort.
- ✓ **Modbus TCP Support**  
Integrates with a Modbus BMS for expanded functionality.
- ✓ **Outside temperature-dependent heating curve option for heating operation**  
Optimizes energy use by adjusting heating based on outdoor conditions.
- ✓ **Sequential startup features**  
Prevents overload conditions to ensure stable system operation.
- ✓ **4 analog inputs to monitor temperatures of heating or cooling buffer tanks, DHW, and outdoor temperature.**  
Continuous monitoring for an immediate reaction to temperature changes, either in the tanks or outdoors.
- ✓ **Fallback mechanism to automatically switch to an alternative unit**  
Ensure uninterrupted operation during malfunctions or defrosting, avoiding system failures and downtime.

# Cascade Controller for Samsung Eco Heating Systems



General	
Capacity	XS: Up to 8 indoor units
Net Width (mm)	106
Net Height (mm)	108
Net Depth (mm)	58
Net Weight (g)	240
Packed Width (mm)	130
Packed Height (mm)	85
Packed Depth (mm)	140
Packed Weight (g)	310
Operating Temperature °C Min	-10
Operating Temperature °C Max	70
Storage Temperature °C Min	-30
Storage Temperature °C Max	70
Power Consumption (W)	3
Configuration	Intesis MAPS
Installation Conditions	This cascade controller is designed to be mounted inside an enclosure. If the unit is mounted outside an enclosure, precautions should always be taken to prevent electrostatic discharge to the unit. When working inside an enclosure (e.g., making adjustments, setting switches, etc.), typical anti-static precautions should always be followed before touching the unit.
AC Model Compatibility	Samsung Eco Heating Systems (EHS).
Content of Delivery	Cascade Controller and installation guide.
Not Included (in delivery)	Power supply, sensors, and accessories.

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## General

Mounting	DIN-rail (EN 50022 standard)
Housing Materials	Plastic
Packaging Material	Cardboard
Warranty (years)	3 years

## Identification and Status

Product ID	IN780CTROXSO000_MBS_SAM
Country of Origin	Spain
HS Code	8517620000
Dual Usage	No
Export Control Classification Number (ECCN)	EAR99

## Physical Features

LED Indicators	Gateway and communication status.
Push Buttons	Factory reset.
Contains Battery	No

## Certifications and Standards

CE	Yes
CB	Yes
UKPSTI	Yes
UL	No
WEEE Category	IT and telecommunications equipment

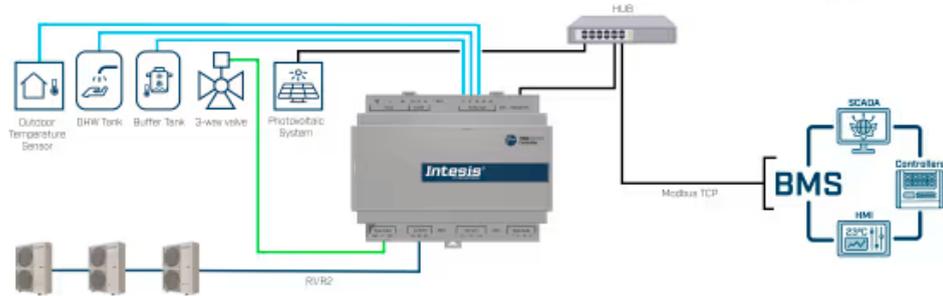
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## Use Case

**SAMSUNG**

**Modbus**



Integration example.