

PUMY Communication Protocol

Residential and Commercial – Heating & Cooling



Next Generation PUMY Communication Protocol

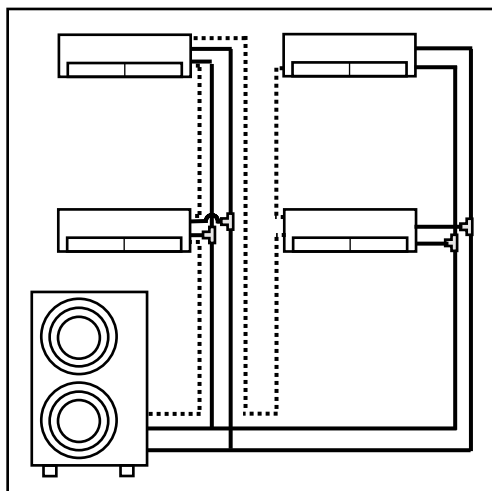
New PUMY models have advanced flexibility for easier and more convenient system application design. Now residential M & P series indoor units can be coupled with a branch box and used with a PUMY outdoor unit. These combinations include all styles of M and P series products including the new PAA hybrid A-Coil.

When installing a branch box and M or P series indoor units, a minimum of 2 indoor units must be installed. Unit addressing must be performed before start-up for proper operation. When a branch box combination is installed, communication between outdoor unit and branch box is established via M-Net protocol. 16 – 2 shielded control wire is used to connect the Outdoor Unit TB3 and Branch Box TB5 M-Net terminals.

A maximum of two branch boxes may be connected to a single PUMY outdoor unit at a time. If two branch boxes are required, the M-Net wire must be installed in a daisy chain pattern, connecting the branch boxes to the outdoor unit. Communication between branch box and the indoor units is established via A-Control protocol between the S1, S2, and S3 terminals in the branch box and the S1, S2, S3 terminals in each indoor unit. The A-Control wiring between branch boxes and indoor units must match the port address settings made at the branch box and indoor unit to ensure proper communication.

Power for the indoor units can be supplied from the outdoor unit by connecting the B1/B2 terminals in the outdoor unit to the L1/L2 terminals in the branch box. Separate power can also be supplied to branch box and outdoor unit with individual circuit breakers.

City Multi



In applications where City Multi indoor units are used, communication between outdoor and indoor units is established via M-Net protocol by using 16-2 shielded wire. M-Net wire must be connected in a daisy chain pattern from the outdoor unit's TB3 terminal to the indoor unit's TB5 terminal. City Multi Indoor units are powered independently of the outdoor unit.

Due to differing communication protocols. City Multi and M / P series indoor units are not supported in the same system.

Applicable Models	
Standard Models	Cold Climate Models
PUMY-P36NKMU4	PUMY-HP36NKMU2
PUMY-P48NKMU4	PUMY-HP42NKMU2
PUMY-P60NKMU4	PUMY-HP48NKMU2

Branch Box Models	
PAC-MKA33BC	PAC-MKA53BC

M & P Series (w/ Branch Box)

