



CITY MULTI 2-pipe heat recovery system featuring power monitoring, Zone Control and Wi-Fi Control for complete tenant comfort and accurate energy billing.



### Project Info

<b>Application</b>	<b>Location</b>
Watermark Premium Apartments	Baulkham Hills, NSW

### The Challenge

Watermark Premium Apartments are located in the heart of Norwest, a fast growing area in Sydney's North West. The original air conditioning specification called for standard one to one split systems, so that power consumption could be accurately charged to each tenant.

The problem with this design is that the outdoor unit installed on the balcony of 96 apartments, in two towers would detract from the premium appearance of the site.

### The Solution

An alternative system was designed using Mitsubishi Electric CITY MULTI Variable Refrigerant Flow (VRF), which decreased the number of outdoor units from 96 to 24, which were installed on the roof.

AE-200 centralised controller provided power monitoring, which enables the facilities manager to calculate power usage for each tenancy.

### The Team

**Client**  
Mulpha Norwest Pty Ltd

### HVAC Contractor

Hiflow Industries

### Builder

Strongbuild

Brightness and occupancy sensors of the zone controller connected to the CITY MULTI indoor delivered day/night zoning. Sub zone controller (PAR-ZC401M) provides two points of control, one from the living room and one from the bedroom.

Mark Harrison, Construction Manager from Hiflow Industries, air conditioning and mechanical services contractor noted "we were delighted to deliver and air conditioning system that is state-of-the-art, that not only provides individual power monitoring but doesn't detract from the original intent of the building's architects."

"The Mitsubishi Electric CITY MULTI VRF two pipe heat recovery system uses less copper pipe than standard systems, reducing installation costs. The Zone Control and Wi-Fi Control provide tenants with complete control over their environment" said Harrison.

## UNIT INFORMATION



### Outdoor Units

PURY-P400YSLM-A x 7  
PURY-P350YLM-A x 9  
PURY-P300YLM-A x 1  
PURY-P200YLM-A x 14  
PUHZ-RP71VHA5R1-A x 1

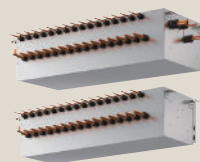


### Indoor Units

PEFY-P63VMS1-ER2 x 18  
PEFY-P63VMA-E x 57  
PEFY-P50VMS1-ER1 x 2  
PEFY-P50VMA-E x 23  
PEFY-P32VMS1-ER1 x 8



PEFY-P25VMS1-ER2 x 65  
PLA-RP71BA x 1



### BNC

CMB-P108V-GA1 x 7  
CMB-P108V-G1 x 10



### Controllers

TG2000 x 2  
PAR-31MAAE-J x 114  
PAC-ZC40H-E x 60  
PAC-YG60MCA-J x 2  
PAC-YG10 x 7



PAC-SH65OF-E x 1  
PAC-SE41TS x 120  
PAC-SA88 x 1  
MAC-558IF x 176