

Commercial office building in the Adelaide CBD with a 90 m pipe lift height using a Mitsubishi Electric medium pressure sensor kit.



Project Info

Application

115 King William Street

Location

Adelaide, SA

The Challenge

Due to limited ground space around the building in the Adelaide CBD, the outdoor units had to be placed on top of the roof. Standard air conditioning systems could handle up to a 50 m pipe lift height, but this project required a 90 m pipe lift height.

The Team

HVAC Contractor

OP Industries

HVAC Consultant

Lucid Consulting Engineers

The Solution

To enable the required 90 m pipe lift, a Mitsubishi Electric medium pressure sensor kit was installed in the CITY MULTI VRF outdoor unit.

To determine optimum placement of the outdoor units on the roof computational fluid dynamics (CFD) analysis was carried out, taking into account the thermal effects of the outdoor units and other heat sources.



UNIT INFORMATION



Outdoor Units

PURY-P650YSLM-A x 1
PURY-P350YLM-A x 22
PURY-P300YLM-A x 1
PUHY-P200YKB-A x 2

MUZ-GE60VAD-A1 x 1
MUZ-GE35VAD-A1 x 1

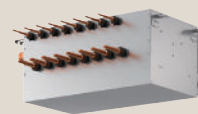


Indoor Units

PEFY-P200VMHS-E x 2
PEFY-P140VMH-E x 1
PEFY-P125VMH-E x 22
PEFY-P100VMH-E x 66



MSZ-GE60VAD-A1 x 1
MSZ-GE35VAD-A1 x 1



BNC

CMB-P108V-GA1 x 22



Controllers

TG2000 X 1
AG150A x 1
AG-150A Web Browser x 1
PAR-31MAAE-J x 93