

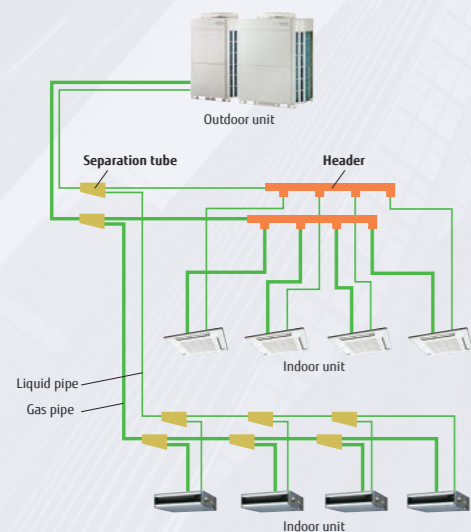
# Heat Pump

Modular Type



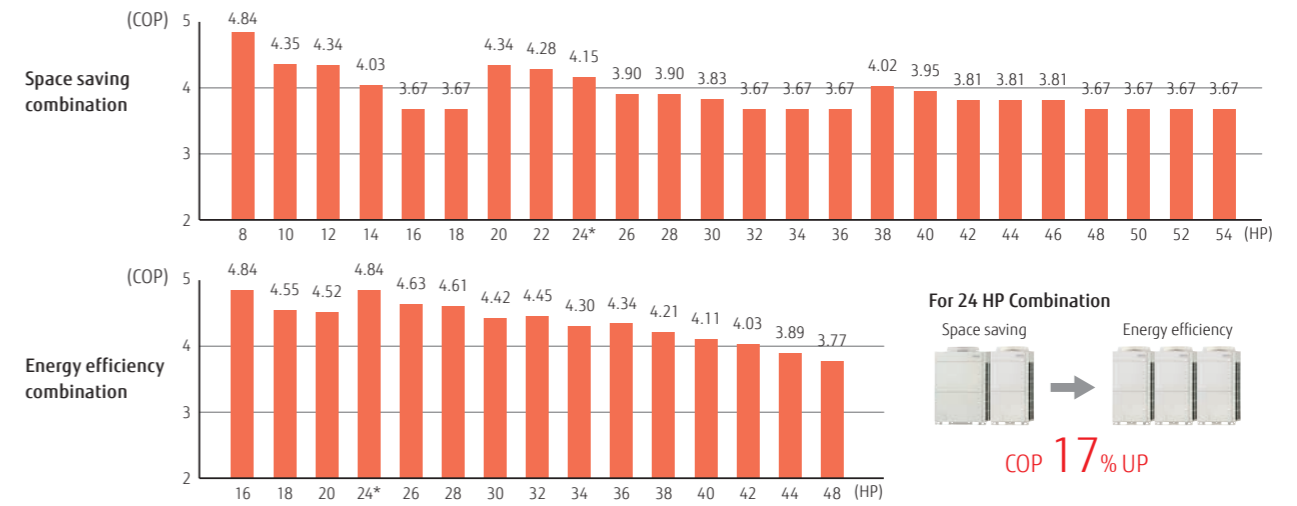
### System configuration example

- This system is used for medium-sized and large buildings. Connecting each outdoor unit makes it possible to create a high capacity system.
- Connection of multiple indoor units using separation tubes and headers.



## Efficiency in actual operation

Top class high COP is achieved for all combinations by our unique heat exchanger structure, high efficient DC twin compressor, and our own technologies.



## Energy saving technology that boosted operation efficiency

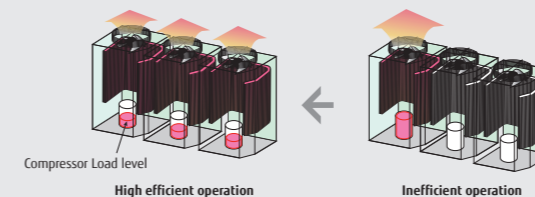


- Powerful large propeller fan**  
By using CFD\* technology, a newly designed fan achieves high performance and low noise operation. \*: CFD = Computational Fluid Dynamics
- 3 phase DC fan motor**  
Efficiency is substantially improved by high efficient motor with sophisticated driver control. In addition, low noise is realized by DC fan motor.
- Sine-wave DC inverter control**  
High efficiency is realized by adoption of reduced switching loss IPM.
- 4-face heat exchanger**  
Heat exchange efficiency is significantly improved by the introduction of a new 4-face heat exchanger that increases effective surface area.
- Subcool heat exchanger**  
High Heat Exchange efficiency is achieved by using an internal projection shape double pipe construction.
- High efficient and large capacity DC twin rotary compressor**  
Large capacity high efficient DC twin rotary compressor with excellent intermediate capability.
- Front intake port (Corner cut air inlet structure)**  
In multiple outdoor unit installations, the unique front intake design improves airflow into the Heat Exchanger.

## Advanced energy saving control

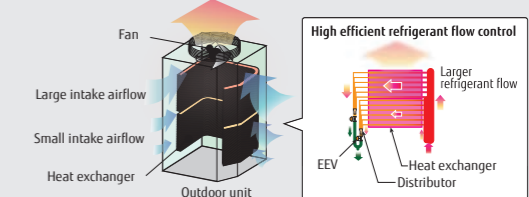
### Multiple outdoor operation control

This control method operates all compressors at part load and distributes refrigerant to all heat exchangers to improve the overall system efficiency.



### Heat exchanger refrigerant control

The efficiency of the top and bottom heat exchanger in the outdoor unit has been improved by adopting an optimum refrigerant path control.



Outdoor units lineup • Combinations other than the followings are not recommended.

Space saving Combinations

22.4kW (8HP)  AJY072LALBH UNIT : AJY072LALBH	28.0kW (10HP)  AJY090LALBH UNIT : AJY090LALBH	33.5kW (12HP)  AJY108LALBH UNIT : AJY108LALBH	40.0kW (14HP)  AJY126LALBH UNIT : AJY126LALBH	45.0kW (16HP)  AJY144LALBH UNIT : AJY144LALBH
50.0 kW (18HP)  AJY162LALBH UNIT : AJY162LALBH	56.0kW (20HP)  AJY180LALBH UNIT : AJY090/090LALBH	62.4 kW (22HP)  AJY198LALBH UNIT : AJY126/072LALBH	68.0 kW (24HP)  AJY216LALBH UNIT : AJY126/090LALBH	73.0 kW (26HP)  AJY234LALBH UNIT : AJY144/090LALBH
78.0 kW (28HP)  AJY252LALBH UNIT : AJY162/090LALBH	85.0 kW (30HP)  AJY270LALBH UNIT : AJY144/126LALBH	90.0 kW (32HP)  AJY288LALBH UNIT : AJY144/144LALBH	95.0 kW (34HP)  AJY306LALBH UNIT : AJY162/144LALBH	100.0 kW (36HP)  AJY324LALBH UNIT : AJY162/162LALBH
106.0 kW (38HP)  AJY342LALBH UNIT : AJY162/090/090LALBH	113.0 kW (40HP)  AJY360LALBH UNIT : AJY144/126/090LALBH	118.0 kW (42HP)  AJY378LALBH UNIT : AJY144/144/090LALBH	123.0 kW (44HP)  AJY396LALBH UNIT : AJY162/144/090LALBH	128.0 kW (46HP)  AJY414LALBH UNIT : AJY162/162/090LALBH
135.0 kW (48HP)  AJY432LALBH UNIT : AJY144/144/144LALBH	140.0 kW (50HP)  AJY450LALBH UNIT : AJY162/144/144LALBH	145.0 kW (52HP)  AJY468LALBH UNIT : AJY162/162/144LALBH	150.0 kW (54HP)  AJY486LALBH UNIT : AJY162/162/162LALBH	

Energy efficiency Combinations

44.8 kW (16HP)  AJY144LALBHH UNIT : AJY072/072LALBH	50.4kW (18HP)  AJY162LALBHH UNIT : AJY090/072LALBH	55.9 kW (20HP)  AJY180LALBH UNIT : AJY108/072LALBH	67.2 kW (24HP)  AJY216LALBHH UNIT : AJY072/072/072LALBH	72.8 kW (26HP)  AJY234LALBHH UNIT : AJY090/072/072LALBH
78.3 kW (28HP)  AJY252LALBHH UNIT : AJY108/072/072LALBH	84.8 kW (30HP)  AJY270LALBHH UNIT : AJY126/072/072LALBH	89.4 kW (32HP)  AJY288LALBHH UNIT : AJY108/108/072LALBH	95.9 kW (34HP)  AJY306LALBHH UNIT : AJY126/108/072LALBH	100.5 kW (36HP)  AJY324LALBHH UNIT : AJY108/108/108LALBH
107.0 kW (38HP)  AJY342LALBHH UNIT : AJY126/108/108LALBH	113.5 kW (40HP)  AJY360LALBHH UNIT : AJY126/126/108LALBH	120.0 kW (42HP)  AJY378LALBHH UNIT : AJY126/126/126LALBH	125.0 kW (44HP)  AJY396LALBHH UNIT : AJY144/126/108LALBH	130.0 kW (46HP)  AJY414LALBHH UNIT : AJY144/144/126LALBH

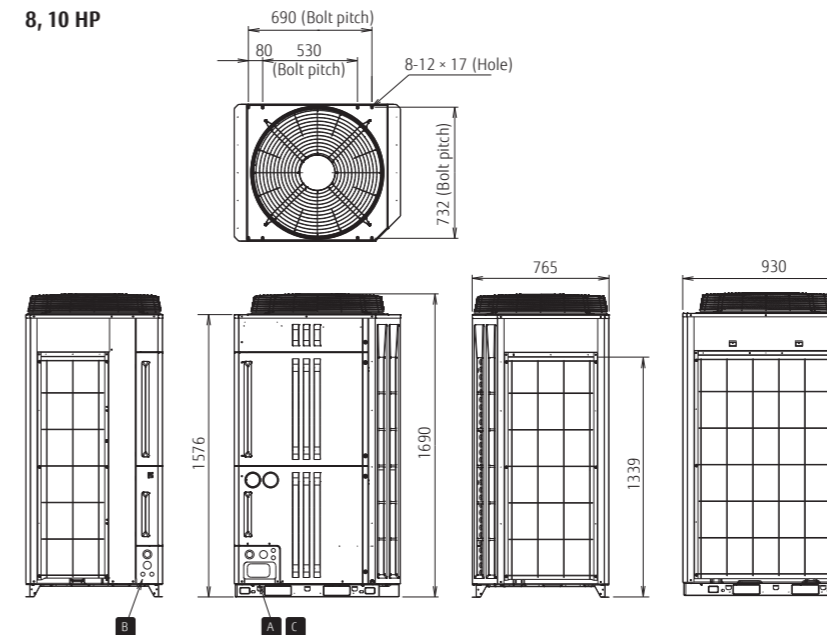
8,10HP: AJY072LALBH / AJY090LALBH  
12,14,16,18HP: AJY108LALBH / AJY126LALBH / AJY144LALBH / AJY162LALBH



Dimensions

(Unit : mm)

8, 10 HP



12, 14, 16, 18 HP

