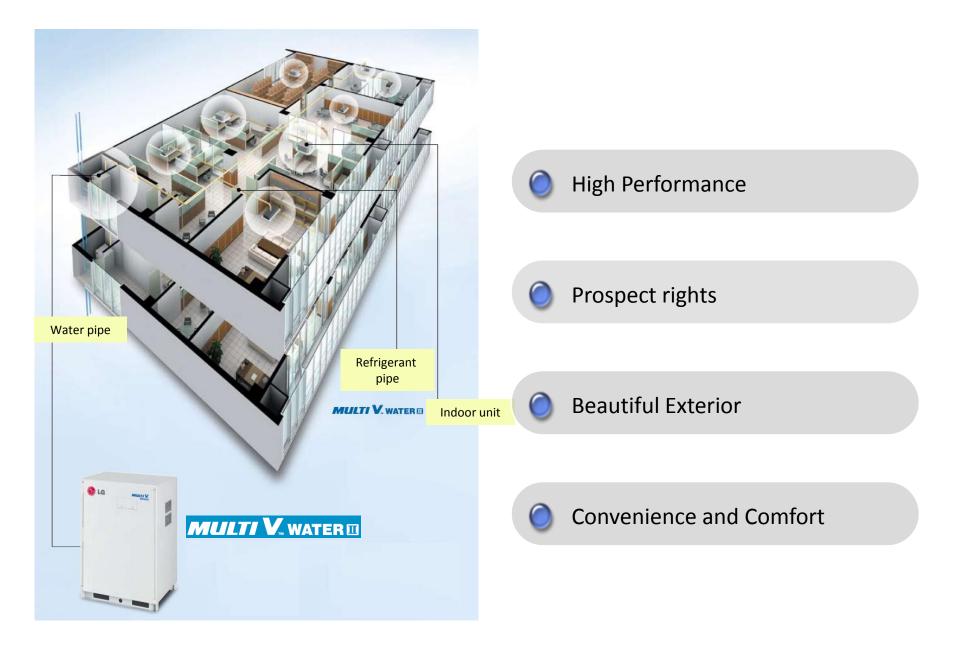
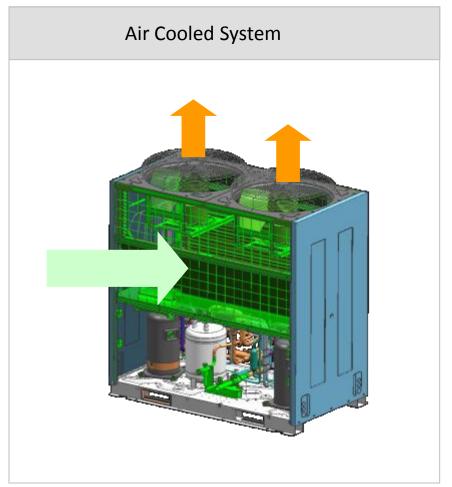
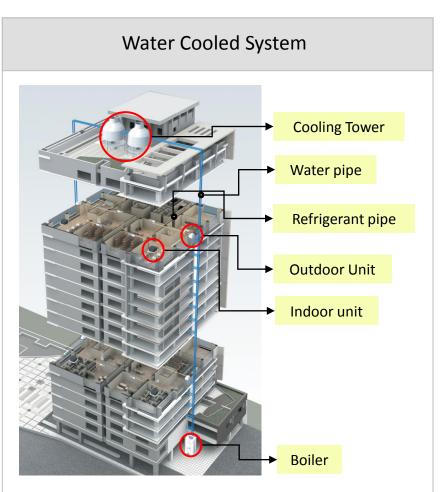


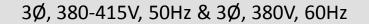
1.1 What is Multi V Water II?



LG Water Cooled system







ARWN100LA2 ARWN200LA2



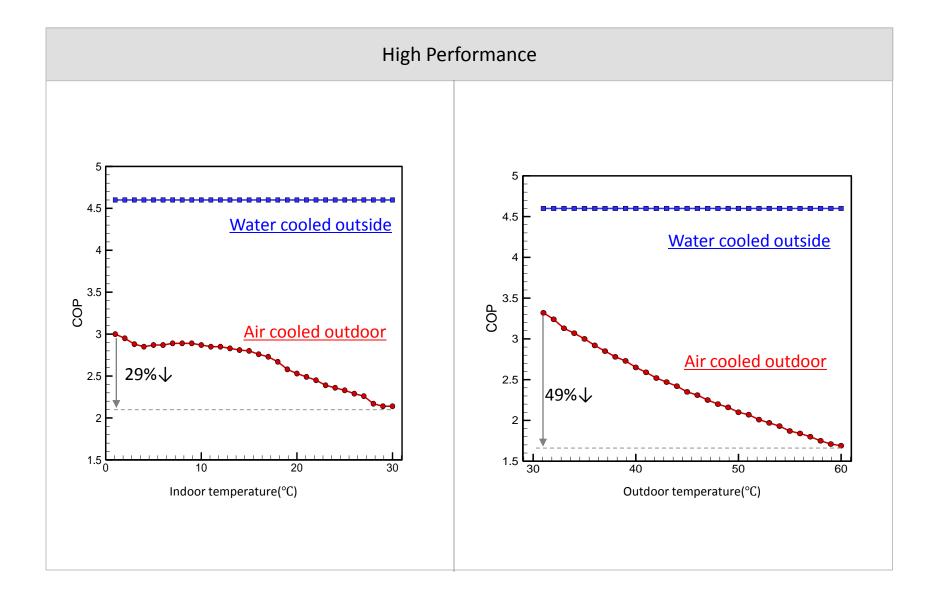
ARWN300LA2 ARWN400LA2

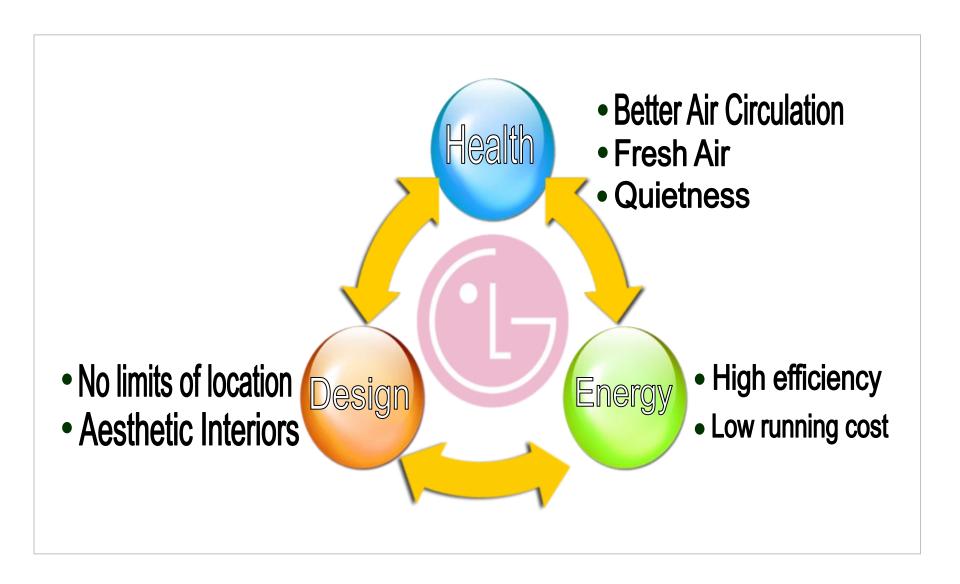


ARWN500LA2 ARWN600LA2









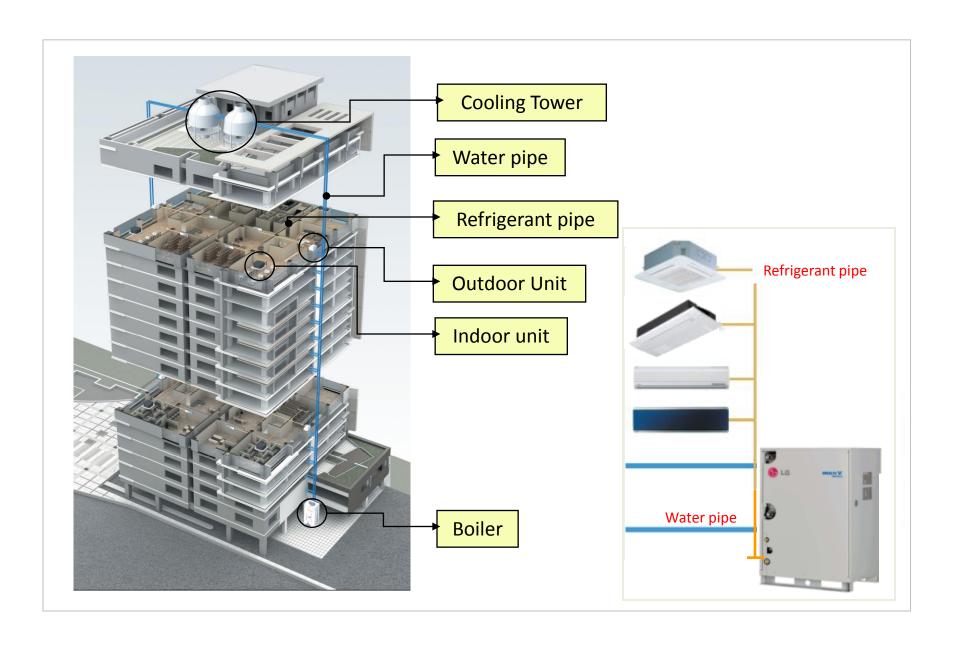
1.4 System Layout

1. Introduction

Beautiful Exterior





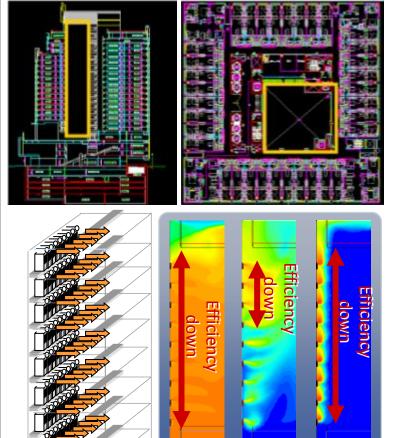


1. Introduction

High Rising Building



- Solve the outside air flow problems
- Aesthetic external appearance
- Energy Saving



Discharge air circulation expected site

Water cooled system is the optimal solution

1.4 System Layout

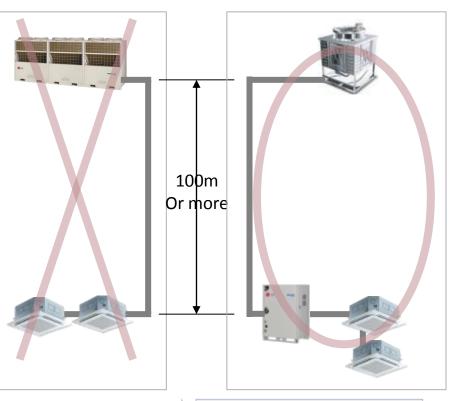
1. Introduction

Office Building



- The solution of discharge air circulation and indoor unit height difference limits
- Energy saving
- Aesthetic Appearance
- Simultaneous operation during interim season





- No external installation space for ODU
- Height difference is 50m or more

Water cooled system is the right solution

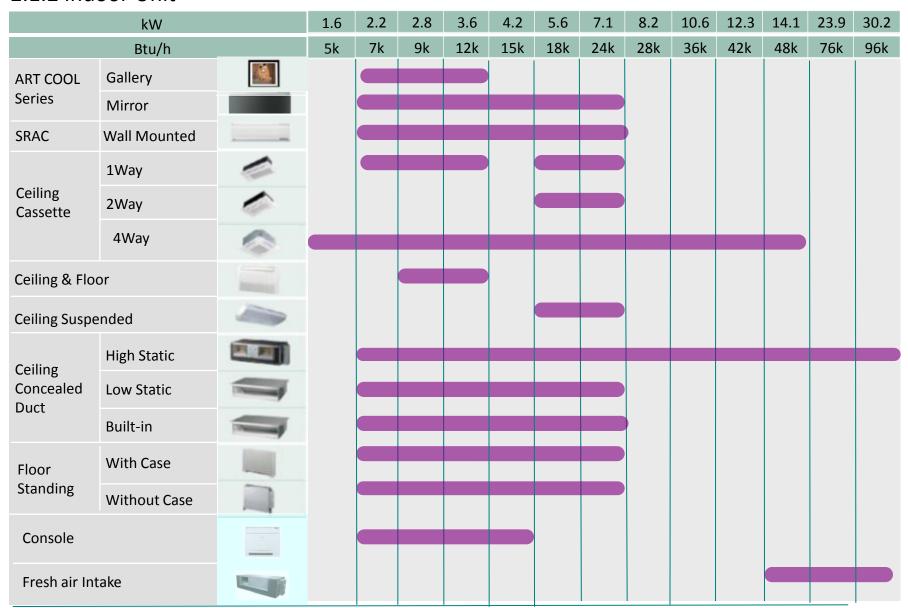
2.1.1 Outdoor Unit

Outdoor unit	Power	10HP	20HP	30HP	40HP	50HP	60HP
1	3Ø 380~415V						
0 to	50Hz 3Ø 380V 60Hz						
	3Ø 460V 60Hz						

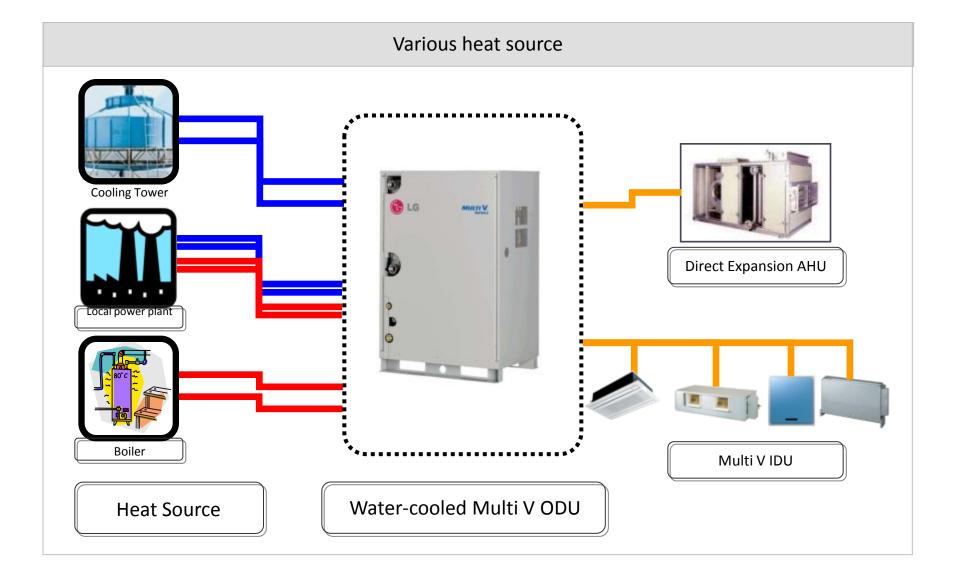
Outdoor unit	Power	8HP	16HP	24HP	32HP	40HP	48HP
	3Ø 220V, 60Hz						

2. Line up

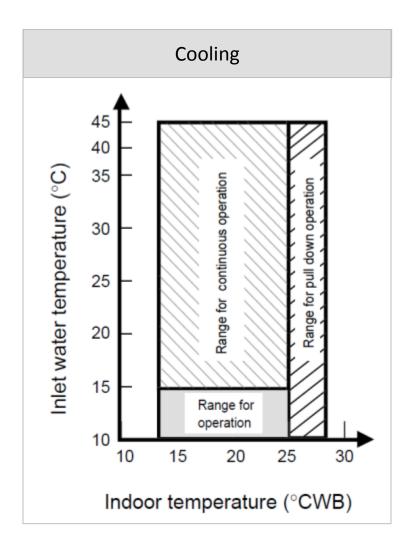
2.1.2 Indoor Unit

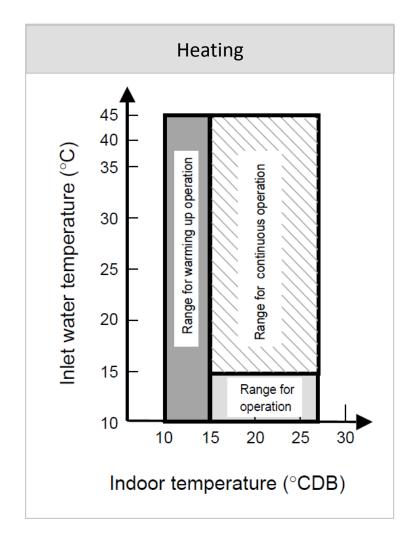


3.1.1 Multiple Heat Source



3.1.2 Wider Operation Range





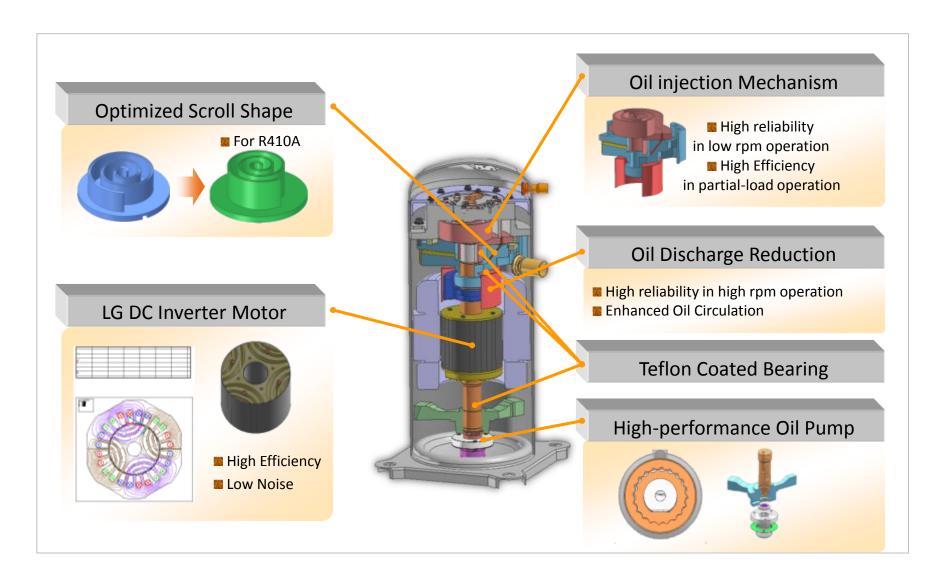
3.1.3 Installation Space / Reduced Installation Area

Compact Size and excellent space efficiency



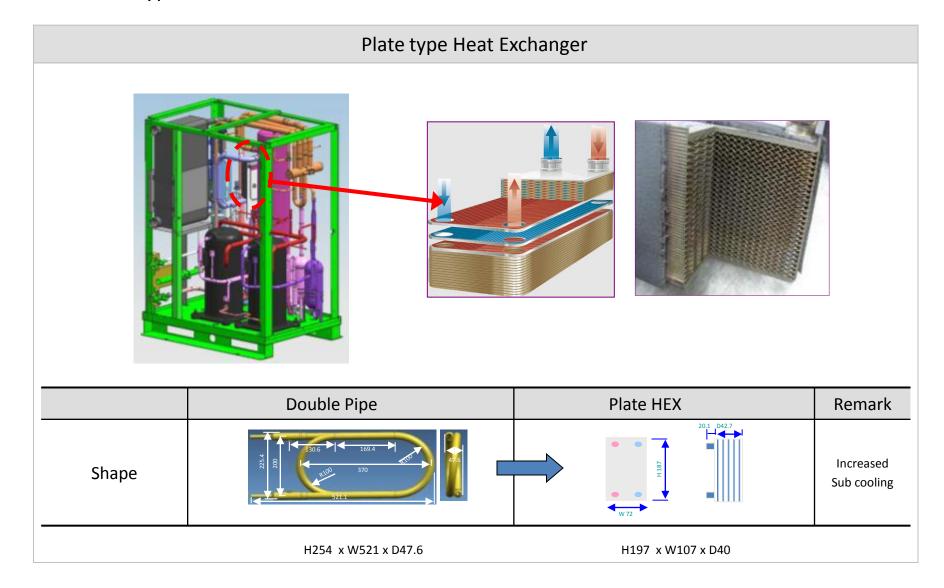


3.1.5 DC Inverter Compressor

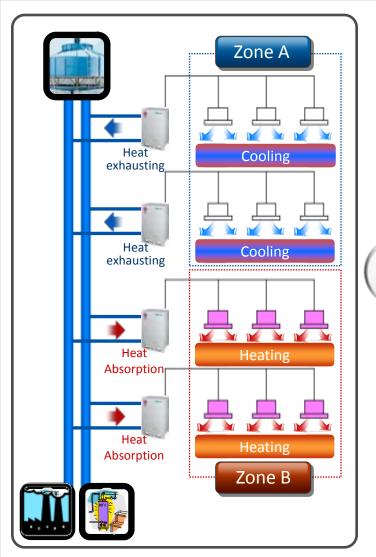


3.1.6 Plate Type Sub-cooler

Unit: mm



3.1.7 Synchronized Operation





Optimal solution on simultaneous operation

- Heating or cooling mode according to OSU.
- Need not separate Heating/Cooling pipe.(Central A/C : 4 pipe, W/C Multi V : 2 pipe)
- If the cooling & heating capacity are same, it operates only with the circulation of water.

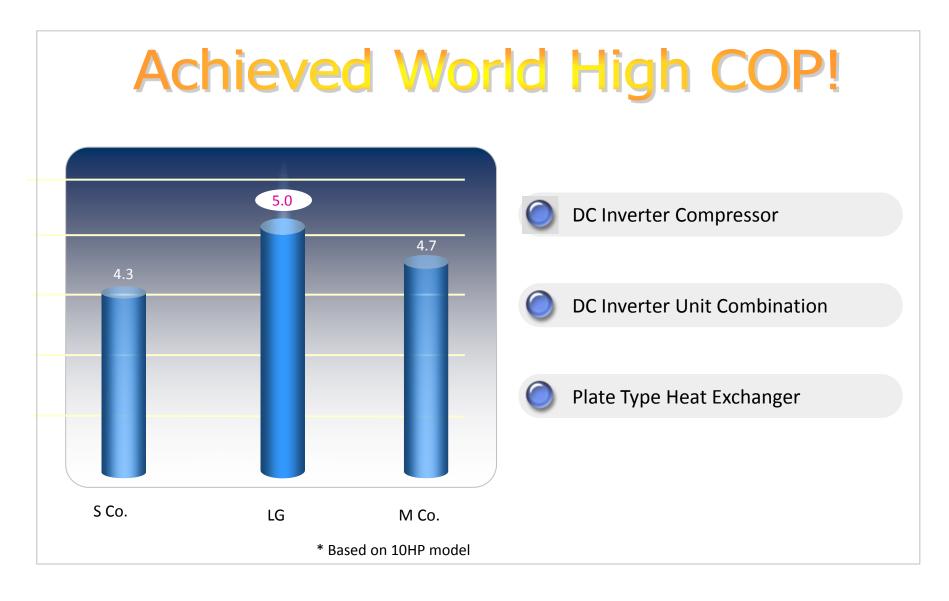
High efficiency system

- Linear control with inverter system
- 40% higher COP compared with Air-cooled type

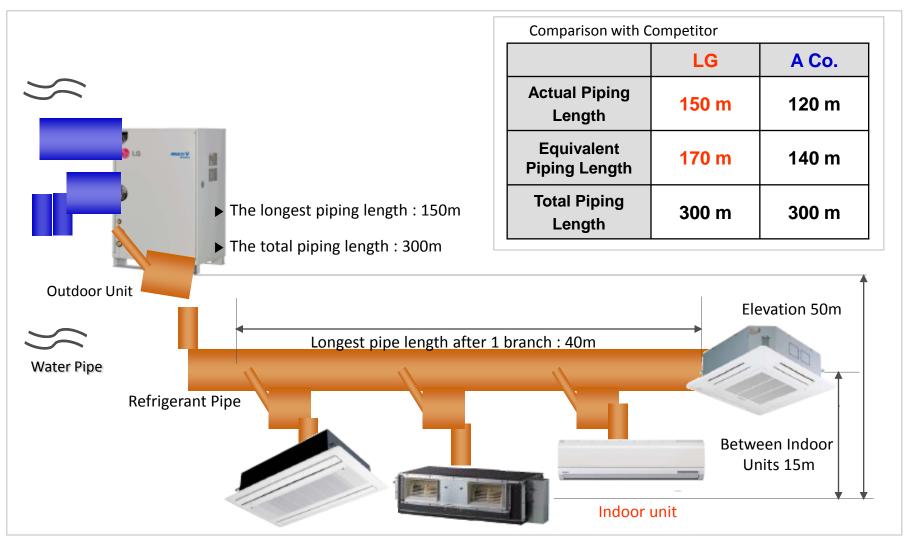
Max. 80% higher COP in the case of simultaneous

operation

3.1.8 Better Performance



3.1.9 Long Piping
Longest Piping Length 150m, Total Piping Length 300m



3.1.10 Black Box and Back-up Function

Black Box

- Recording operation data history before system failure (3 min.)
- Precise Analysis & Decision
- Fast trouble-shooting

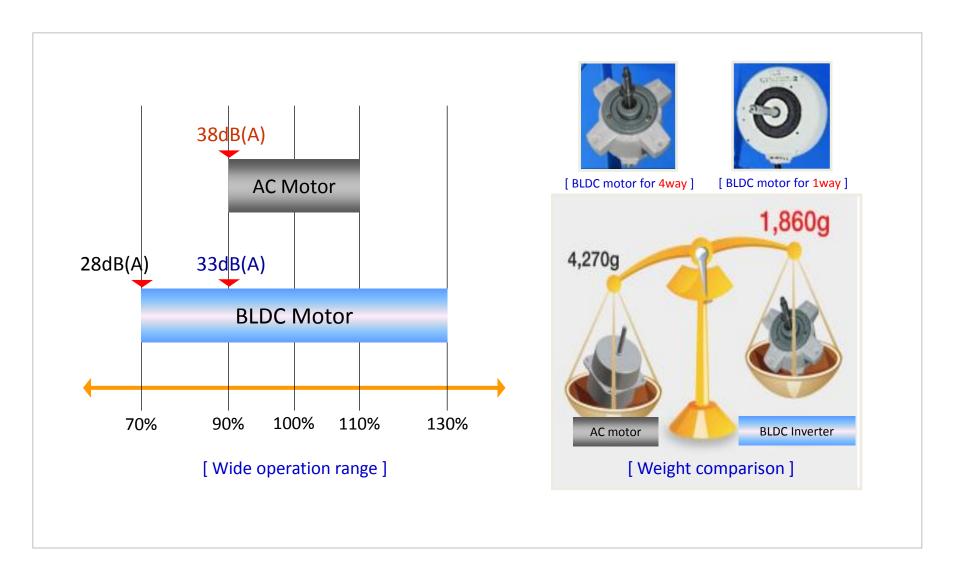
Back up function



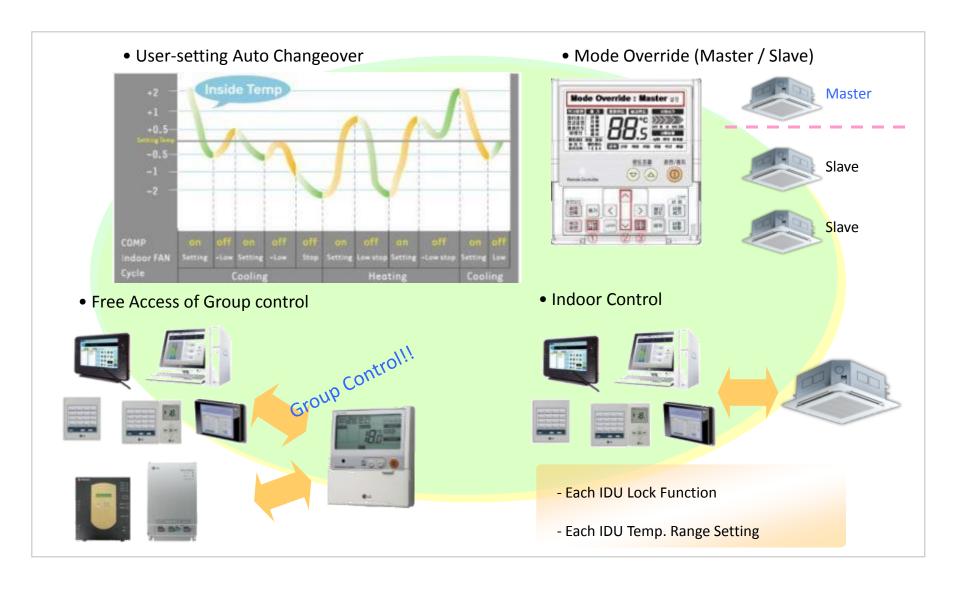
Compressor failure situation

- 1. Inverter Comp. failure
- 2. CH21(Error code) is displayed
- 3. Back-up by field setting (Dip S/W)

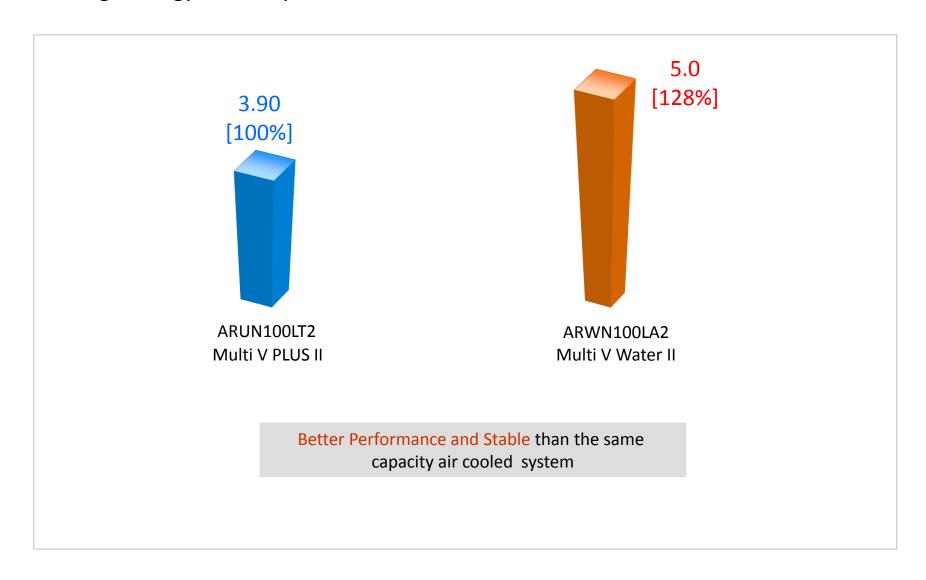
3.1.11 BLDC Inverter Units



3.1.12 Network Solution



3.2.1 High Energy Efficiency



3.2.2 High Efficiency

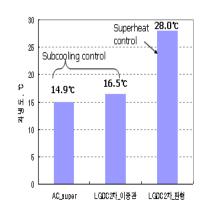
High Efficiency

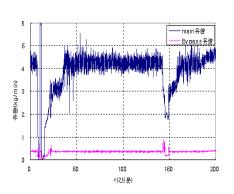


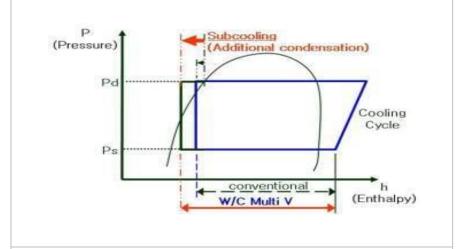
Volume 86% down

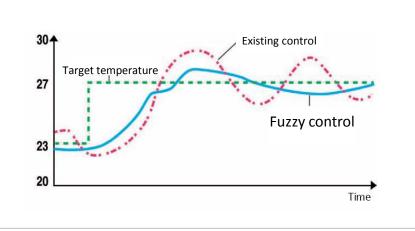


- Increase Sub Cooling: 100m height Installation
- Optimization for EEV flow control factor
- Ensure Field Reliability
- Stable Flow Rate, Refrigerant Noise down

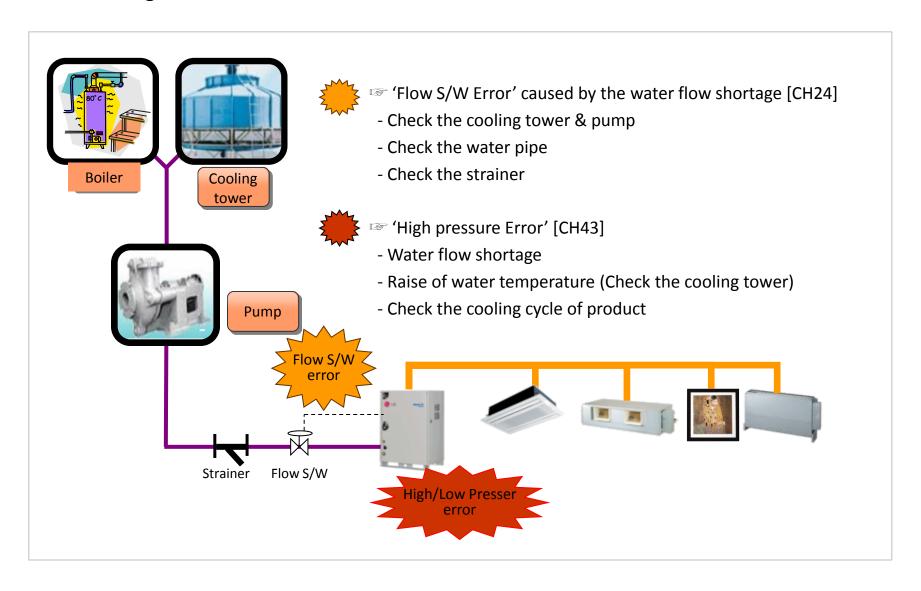




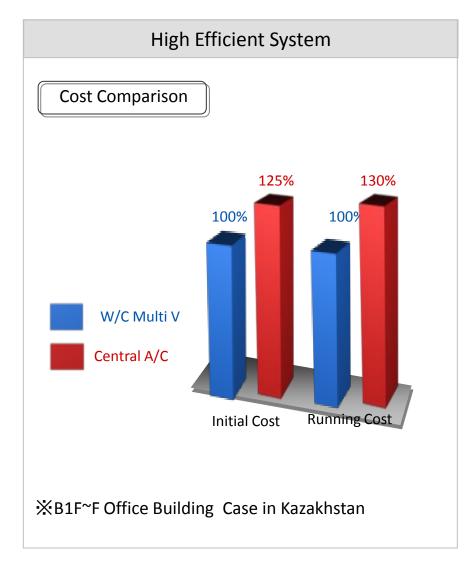




3.2.3 Self Diagnosis Function

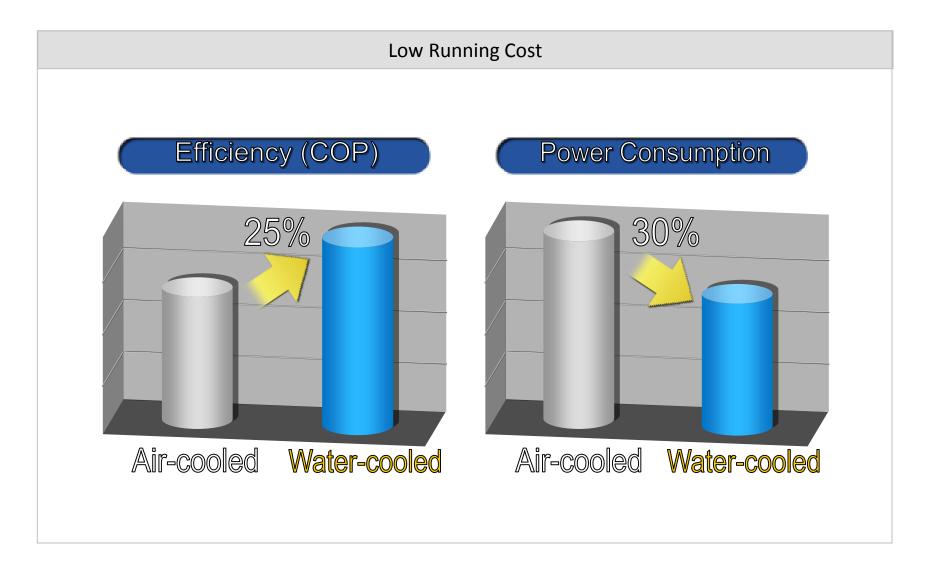


3.3.1 System Comparison





3.4.1 Low Running Cost



3.4.2 Multiple Applications

Water cooled system is suitable for High rising building difficult to apply air cooled system, remodeling building installed central air conditioning system, severe cold area. etc. Economical installation, Premium/ high rise apartments maintenance cost simultaneous Cooling heating load facility Partial / special load Hybrid **Heat Pump** Places requiring System Individual A/C. Government & public office Underground space Existing equipment remodeling

3.4.3 LG Air Conditioner Technical Solutions (LATS) - Multi V

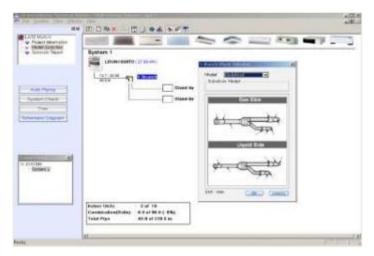


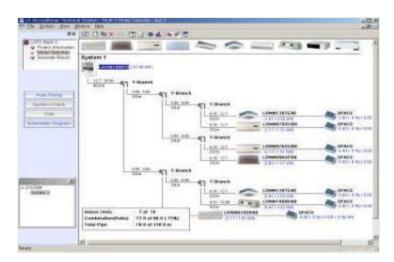
Consultant



- Convenient model selection
- Highly user-friendly design (Autocad Version)
- Automatic piping design & check

Download & auto upgrade from Sales Supporting System (http://www.lgeaircon.com)





<Multi V model selection>

3.4.4 LG Monitoring Viewer (LGMV)

