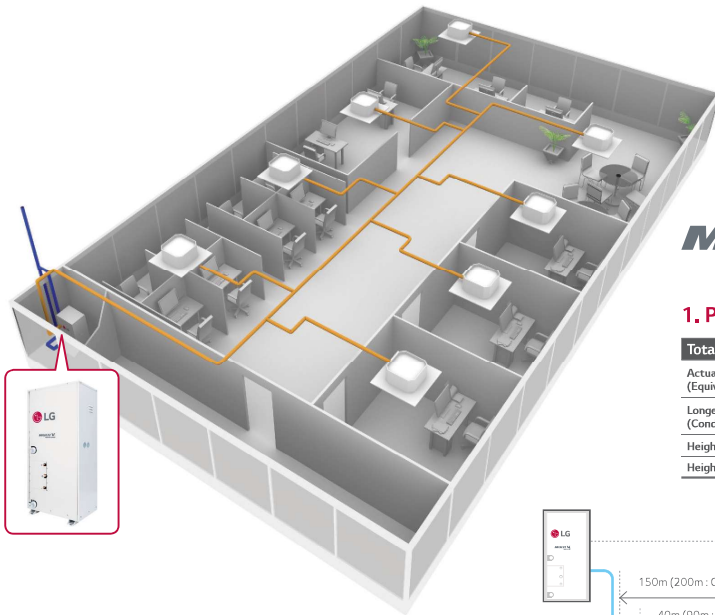
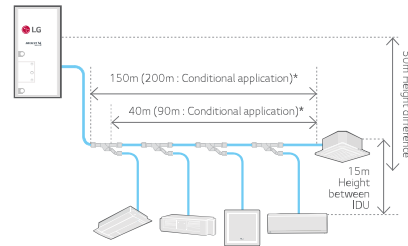


OUTDOOR UNIT MULTI V WATER S



1. Piping Length

Total Piping Length	300m
Actual longest piping length** (Equivalent)	175m
Longest piping length after 1st branch (Conditional application)	40m
Height difference between ODU - IDU	50m
Height difference between IDU - IDU	15m



* Assume equivalent piping length of Y branch to be 0.5m, that of header to be 1m, calculation purpose.
** To apply Conditional Application

Benefit

- Saves valuable floor space
- Flexible design applications
- Low noise level (no fans)
- High efficient water source system

Application

- Building remodeling case (initially equipped with Chillers)
- Residential building with geothermal / Water supply
- High-rise commercial building

MULTI V™ WATER S

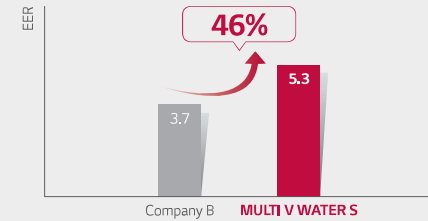
Designed for space saving

OUTDOOR UNIT

WATER S

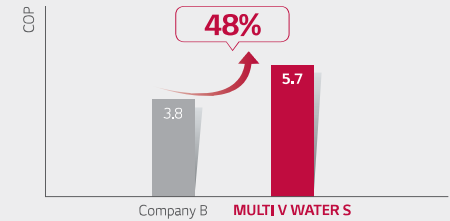
World's First Class Cooling and Heating Efficiency

EER (Rated Efficiency)



* Comparison between 4HP model, based on internal test data

COP (Rated Efficiency)

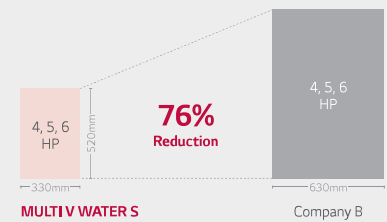


* Comparison between 4HP model, based on internal test data

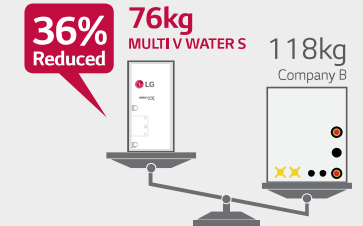
Compact Size

Outdoor unit can be placed inside a closet, no need for roof or outside space. It can be applicable for small space application such as shops in city centers and malls.

Foot print area



Weight



Convenient Installation

Absence of drain pipe makes installation easier.



MULTI V™ WATERS

ARWN40GA0 / ARWN50GA0 / ARWN60GA0



HP				4	5	6	
Model	Independent Unit			ARWN40GA0	ARWN50GA0	ARWN60GA0	
Capacity	Cooling	Nom	kW	11,2	14,0	15,5	
	Heating	Nom	kW	12,5	16,0	18,0	
Power Input	Cooling	Nom	kW	2,10	2,70	3,20	
	Heating	Nom	kW	2,20	2,90	3,50	
EER				5,33	5,19	4,84	
COP				5,68	5,52	5,14	
Operation Range	Cooling	Min - Max	°C DB	10°C - 45°C	10°C - 45°C	10°C - 45°C	
	Heating	Min - Max	°C WB	-5°C - 45°C	-5°C - 45°C	-5°C - 45°C	
Compressor	Type	BLDC Inverter Twin Rotary					
	Number of Compressor	1					
Sound Pressure	Cooling	Nom	dBA	48	49	50	
	Heating	Nom	dBA	48	49	50	
Sound Power	Cooling	Nom	dBA	59	60	61	
	Heating	Nom	dBA	59	60	61	
Dimensions	W x H x D			mm	520 x 1,080 x 330	520 x 1,080 x 330	
Net Weight	Type	kg					
	Charge	kg					
Refrigerant	Type	R410A					
	Control	kg					
Refrigerant Oil	Type	FVC68D					
	Control	cc					
Power Supply	Ø / V / Hz			1 / 220-240 / 50, 60	1 / 220-240 / 50, 60	1 / 220-240 / 50, 60	
Transmission Cable (VCTF-SB)	No. x mm ²			2C x 1,0-1,5	2C x 1,0-1,5	2C x 1,0-1,5	
Piping Length	Total	Max	m	145	145	145	
	Actual Longest Piping Length	Max	m	90	90	90	
	After 1st Y branch	Max	m	40	40	40	
Piping Level Difference	IDU - ODU	Max	m	30	30	30	
	IDU - IDU	Max	m	15	15	15	
Piping Connection	Liquid	mm (inch)	9,52 (3/8)	9,52 (3/8)	9,52 (3/8)		
	Gas	mm (inch)	19,05 (3/4)	19,05 (3/4)	19,05 (3/4)		
Number of Outdoor Units				1	1	1	
Number of Connectable Indoor Units	Max			6	8	9	
Ratio of the Connectable Indoor Units	Min - Max			50 - 130%	50 - 130%	50 - 130%	
Heat Exchanger	Type	Stainless Steel Plate					
	Pressure Resistance	Max	kgf / cm ²	4,413	4,413	4,413	
	Nom Water Flow	L / min			40	50	60
	Head Loss	kPa			14,0	20,7	28,4
Water Connection pipe	Inlet	mm			PT32 (1-1/4)	PT32 (1-1/4)	PT32 (1-1/4)
	Outlet	mm			PT32 (1-1/4)	PT32 (1-1/4)	PT32 (1-1/4)
	Drain Outlet	mm			-	-	-

* This product contains Fluorinated Greenhouse Gases, (R410A)

Note: 1. Capacities are based on the following conditions:

- Cooling Temperature: Indoor 27°C (80,6°F) DB / 19°C (66,2°F) WB / Water 30°C (86°F)
- Heating Temperature: Indoor 20°C (68°F) DB / 15°C (59°F) WB / Water 20°C (68°F)
- Piping Length: Interconnected Pipe Length = 7,5m
- Difference Limit of Elevation (Outside - Indoor Units) is Zero.

2. Wiring cable size must comply with the applicable local and national codes.

3. Due to our policy of innovation some specifications may be changed without notification.

4. Sound Level Values are measured at Anechoic chamber

Therefore, these values can be increased owing to ambient conditions during operation.

REFERENCE SITE

OUTDOOR UNIT

WATERS

Bouygues Challenger

LG MULTI V Water Solution with Geothermal Application



Site Information

The industrial group Bouygues was established in France in 1952. It now maintains operations in 80 countries and employs more than 131,000 people. In 1988, after two years of construction, the new headquarters for Bouygues Construction was officially opened for business. Named Challenger, the complex became a technological showcase for late 20th century architecture.

LG Solution

Bouygues decided to convert their headquarters into an eco-friendly building by significantly reducing its energy footprint. The LG MULTI V Water system was chosen as the ideal HVAC solution for this project. The system not only saves energy but also reduces water usage as it recycles water in order to regulate the temperature of the building. With LG's advanced technology, the building's water consumption was reduced by more than 70 percent.