



# HYDRO KIT

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LG Air Conditioning Technologies

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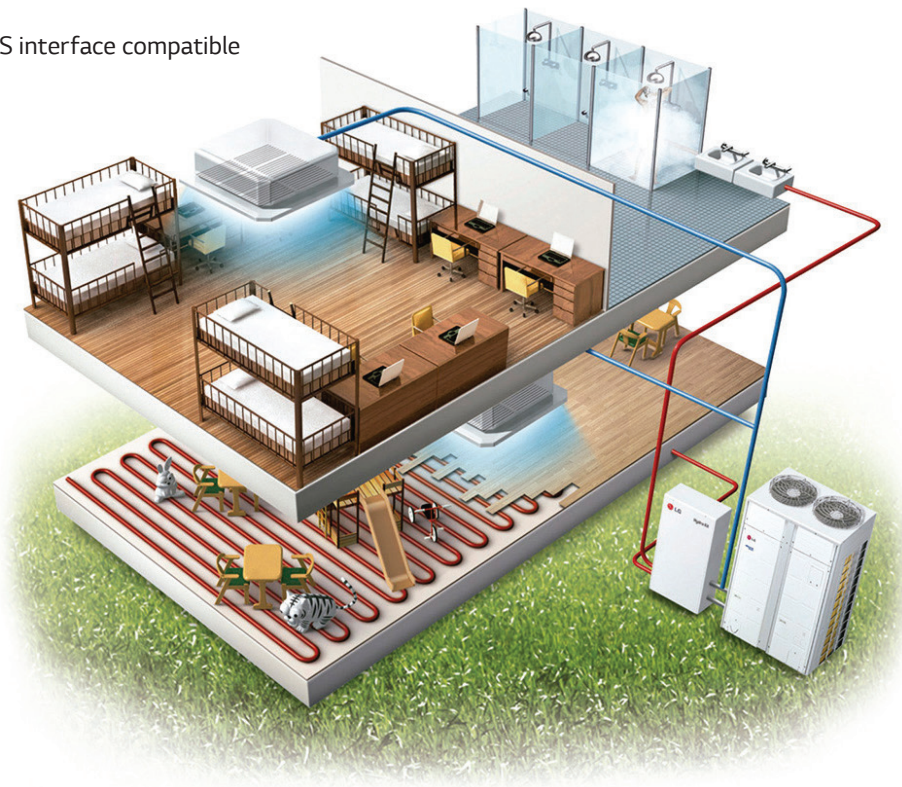


# HOW HYDRO KIT WORKS

The Hydro Kit system uses a refrigerant-to-water heat exchanger to produce chilled or heated water. The Hydro Kit can be used to preheat domestic water stored in an indirect storage tank, snow melt, in-floor or other radiant heating systems. The Hydro Kit can also supply chilled or heated water for use with two-pipe fan coils. The LG Hydro Kit may be used with LG Multi V, Multi V Water, and Multi V S systems.

## Features & Benefits

- Provides hot water and floor heating with less energy consumption than a boiler
- No exhaust or exhaust piping required
- Compact and easy to install
- LG Central controller and BMS interface compatible
- Flexible design options



## Applications

- Universities
- Offices
- Schools
- Hospitals
- Hotels
- Retail stores
- Restaurants
- Multi-use facilities



# HYDRO KIT



ARNH\*\*\*\* A4    ARNH763K3B2

Type		Cooling / Medium-Temperature Heating		High Temperature Heating	
Specification	Unit	423K2	963K2	763K3B2	
Cooling Mode Performance	Rated Capacity <sup>1</sup>	Btu/h	42,100	95,900	
	Entering Water Temp Range	°F	50-95	50-95	
	Leaving Water Temp Range	°F	41-77	41-77	
	Indoor Air Temp Setpoint Range	°F	64-86	64-86	
Heating Mode Performance	Rated Capacity <sup>1</sup>	Btu/h	47,200	107,500	86,000
	Entering Water Temp Range	°F	59-113	59-113	53-167
	Leaving Water Temp Range	°F	68-122	68-122	86-176
	Indoor Air Temp Setpoint Range	°F	64-86	64-86	60-86
	Hot Water Tank Setpoint Range	°F	86-122	86-122	86-176
Unit Data	Refrigerant Type (Primary/Secondary)		R410A/-	R410A/-	R410A / R134A
	Refrigerant Control		EEV	EEV	EEV
	Factory Charge <sup>2</sup>	lbs	-	-	6.51
	Sound Pressure <sup>3</sup>	dB(A)	26	26	43
	Net Unit Weight	lbs	67	77	207
	Shipping Weight	lbs	79	89	219
	Dimensions		20-1/2 x 13 x 24-13/16	20-1/2 x 13 x 24-13/16	20-5/8 x 13-1/8 x 43-1/2
	Heat Rejected to Equipment Room	Btu/h	Negligible	Negligible	512
	Oil Type		-	-	PVE (FVC68D)
	Material/Type		316 Stainless / Brazed Plate	316 Stainless / Brazed Plate	316 Stainless / Brazed Plate
Heat Exchanger	Rated Water Flow	GPM	10.4	24.3	9.5
	Rated Pressure Drop <sup>4</sup>	ft-wg	13.7	23.1	6.7
	Range of Flow	GPM	5.3-10.4	8-24.3	5-19
	Waterside Volume	US Gallons	0.31	0.58	0.58
	Waterside Design Pressure	psig	640	640	640
Compressor	Type		-	-	Twin Rotary
	Operating Range	Hz	-	-	20-95
Piping	Liquid Line (OD)	inches	3/8 Braze	3/8 Braze	3/8 Braze
	Vapor Line (OD)	inches	5/8 Braze	7/8 Braze	3/4 Braze
	Condensate Line (ID)	inches	1-MPT	1-MPT	Bottom Panel Hole Only
	Water Inlet/Outlet (ID)	inches	1-MPT	1-MPT	1-MPT
Electrical Data	MCA	A	0.1	0.1	28.8
	MOP	A	15	15	50
	Rated Amps	A	0.08	0.08	23.0
	Power Supply	V / Hz / ø	208-230/60/1	208-230/60/1	208-230/60/1
	Power Input (Cooling/Heating)	Watts	0.01/0.01	0.01/0.01	-/5

1. All capacities are net, with a combination ratio between 95 and 100%.

2. Internal second-stage refrigerant circuit.

3. Sound pressure levels are tested in an anechoic chamber under ISO Standard 3745.

4. Water only (no antifreeze).

The combination ratio range for mixed-use (Hydro Kit units mixed with indoor units) is 50% - 100%. The combination ratio range for dedicated use (all Hydro Kit units) is 50% - 130%. Due to our commitment to continued innovation, some specifications may be changed without notification.



*Inverter*



AHRI Certified, Variable Refrigerant Flow (VRF) Multi-Split AC and HP AHRI Standard 1230

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