Line up

MULTI V_{IM} 5

Appearance		8 - 12		14 - 20		22 - 26		28 - 48		50 - 72		'2	74 - 96		6			
	•	•	•															
				•	•	•	•	•	•									
							•	•	•	•	•	•						
							•	•	•	•	•	•	•	•	•			
																•	•	•

Features

- Dual Sensing Control Large capacity ODU (Up to 26HP) Continuous Heating Black Fin heat exchanger
- Heat pump / heat recovery Flexible installation (Heat recovery unit & large capacity) Large space, Individual control building







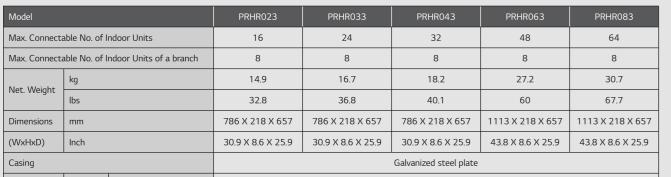
Heat Recovery Unit











Difficisions	111111		780 X 218 X 037	760 X 216 X 037	760 X 216 X 037	1113 / 210 / 037	1113 X 216 X 037				
(WxHxD)	Inch		30.9 X 8.6 X 25.9	30.9 X 8.6 X 25.9	30.9 X 8.6 X 25.9	43.8 X 8.6 X 25.9	43.8 X 8.6 X 25.9				
Casing			Galvanized steel plate								
Liquid Pipe [mm/inch]		Ø9.52[3/8] – Ø6.35[1/4]									
	Indoor Gas Pipe [mm/inch]		Ø.	15.88[5/8] – Ø12.7[1/	Ø15.88[5/8] – Ø12.7[1/2]						
Connecting Pipes Outdoor		Liquid [mm/inch]	Ø9.52[3/8]	Ø12.7[1/2]	Ø15.88[5/8]	Ø15.8	8[5/8]				
	Low Pressure [mm/inch]	Ø22.2[7/8]	Ø28.58[1 1/8]	Ø28.58[1 1/8]	Ø28.58[1 1/8]						
		High Pressure [mm/inch]	Ø19.05[3/4]	Ø22.2[7/8]	Ø22.2[7/8]	Ø22.2[7/8]					
Sound Absorbing Insulation Material				Polyethylene Foam	Polyethylene Foam						
Power Supply			1Ø, 220-240 V, 50 Hz / 1Ø, 220 V, 60 Hz								

Hydro Kit

				MEDIUM TEMPER	ATURE HYDROKIT	HIGH TEMPERATURE HYDROKIT		
Model		Unit		ARNH04GK2A4	ARNH10GK2A4	ARNH04GK3A4	ARNH08GK3A4	
			kW	12.3	28	-	-	
Capacity (Rated)		Cooling	kcal/h	10,580	24,100	-	-	
			Btu/h	42,000	95,900	-	-	
			kW	13.8	31.5	13.8	25.2	
		Heating	kcal/h	11,870	27,100	11,870	21,700	
			Btu/h	47,000	107,500	47,000	86,000	
Casing		Material	-	Painted Steel Painted Steel Plate Plate		Painted Steel Painted S Plate Plate		
		Color (RAL code)	-	RAL 7030				
Dimensions	Net	Body (W x H x D)	mm	520 x 631 x 330	520 x 631 x 330	520 x 1,074 x 330	520 x 1,074 x 330	
Weight	Net	Body	kg (lbs)	29.2 (64.4)	33.7 (74.3)	86.0 (189.6)	90.0 (198.4)	
Heat Exchanger	Refrigerant to Refrigerant	Туре	-	-	-	Brazed Plate HEX	Brazed Plate HE	
		Quantity	EA	-	-	1	1	
		Number of Plate	EA	-	-	50	60	
	Refrigerant to Water	Туре	-	Brazed Plate HEX	Brazed Plate HEX	Brazed Plate HEX	Brazed Plate HE	
		Quantity	EA	1	1	1	1	
		Number of Plate	EA	26	48	76	48	
		Rated Water Flow	ℓ / min	39.6	92	19.8	36	
		Head Loss	kPa	41	69	5	20	
Compressor		Туре	-	-	-	LG BLDC Inverter Compressor	LG BLDC Inverte Compressor	
		Starting Method	-	-	-	Direct On Line	Direct On Line	
	Water Side	Inlet	A (inch)	25A (Male PT1)	25A (Male PT1)	25A (Male PT1)	25A (Male PT1)	
Piping Connections	vvater side	Outlet	A (inch)	25A (Male PT1)	25A (Male PT1)	25A (Male PT1)	25A (Male PT1	
riping connections	Refrigerant Side	Liquid	mm (inch)	9.52 (3/8)	9.52 (3/8)	9.52 (3/8)	9.52 (3/8)	
Refrigerant Side		Gas	mm (inch)	15.88 (5/8)	22.2 (7/8)	15.88 (5/8)	19.05 (3/4)	
Drain Piping Connection			A (inch)	25A (Male PT1)	25A (Male PT1)	25A (Male PT1)	25A (Male PT1	
Sound Pressure Level		Cooling	dB(A)	26	26	-	-	
		Heating	dB(A)	26	26	44	46	
Refrigerant	Refrigerant to Water	Refrigerant Name	-			R134a	R134a	
Power Supply			Ø,V,Hz	1,220-240,50/60	1,220-240,50/60	1,220-240,50/60	1,220-240,50/6	

Capacities are based on the following conditions:

Cooling Temperature: Indoor 27°C(80.6°F) DB / 19°C(66.2°F) WB, Outdoor 35°C(95°F) DB / 24°C(75.2°F) WB, Water Inlet 23°C(73.4°F) / Outlet 18°C(64.4°F) Heating Temperature: Indoor 20°C(68°F) DB / 15°C(59°F) WB, Outdoor 7°C(44.6°F) DB / 6°C(42.8°F) WB, * Water Inlet 30°C(86°F) / Outlet 35°C(95°F), ** Water Inlet 55°C(131°F) / Outlet 65°C(149°F)

Piping Length: Interconnected Pipe Length = 7.5m

Difference Limit of Elevation (Outdoor ~ Indoor Unit) is Zero.

* Medium Temp. ** High Temp.

Reference





Outdoor Unit: Multi V 524 HP

Hydro Kit 32 HP

High Static Duct
 Low Static Duct



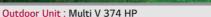
Outdoor Unit: Multi V 890 HP

- High Static Duct • Low Static Duct

 Hydro Kit 32 HP • High Static Duct Low Static Duct







Hydro Kit 42 HP

Hydro Kit 16 HP

 High Static Duct • Low Static Duct

 Hydro Kit 8 HP Low Static Duct









- Hydro Kit 16 HP
- High Static DuctLow Static Duct

Outdoor Unit: Multi V 138 HP Hydro Kit 4 HP

High Static DuctLow Static Duct

Outdoor Unit: Multi V 100 HP Hydro Kit 8 HP Low Static Duct







Outdoor Unit: Multi V 110 HP

• Hydro Kit 16 HP Wall mount • Cassette • Low Static Duct



Outdoor Unit: Multi V 62 HP Hydro Kit 20 HP

Low Static Duct







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CONDITIONING

WITH **HOT WATER SOLUTIONS.**

ONE PRODUCT THAT GIVES YOU BOTH.



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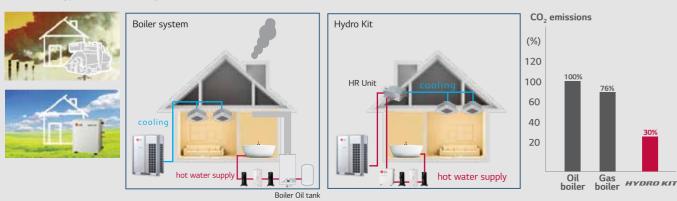


highly efficient. This total HVAC solution is available for air-conditioning, floor heating, radiators and sanitary hot water supply. All these functions utilize a variety of MULTI V outdoor units. Therebuy, minimizing energy costs and CO2 emissions compared to boiler system



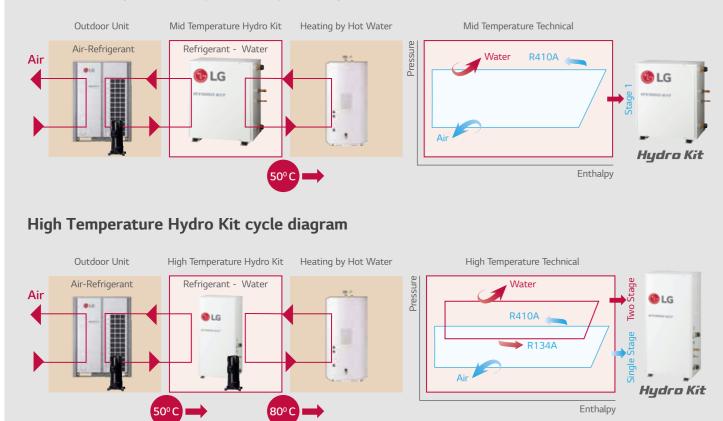
Eco-friendly green Energy solution

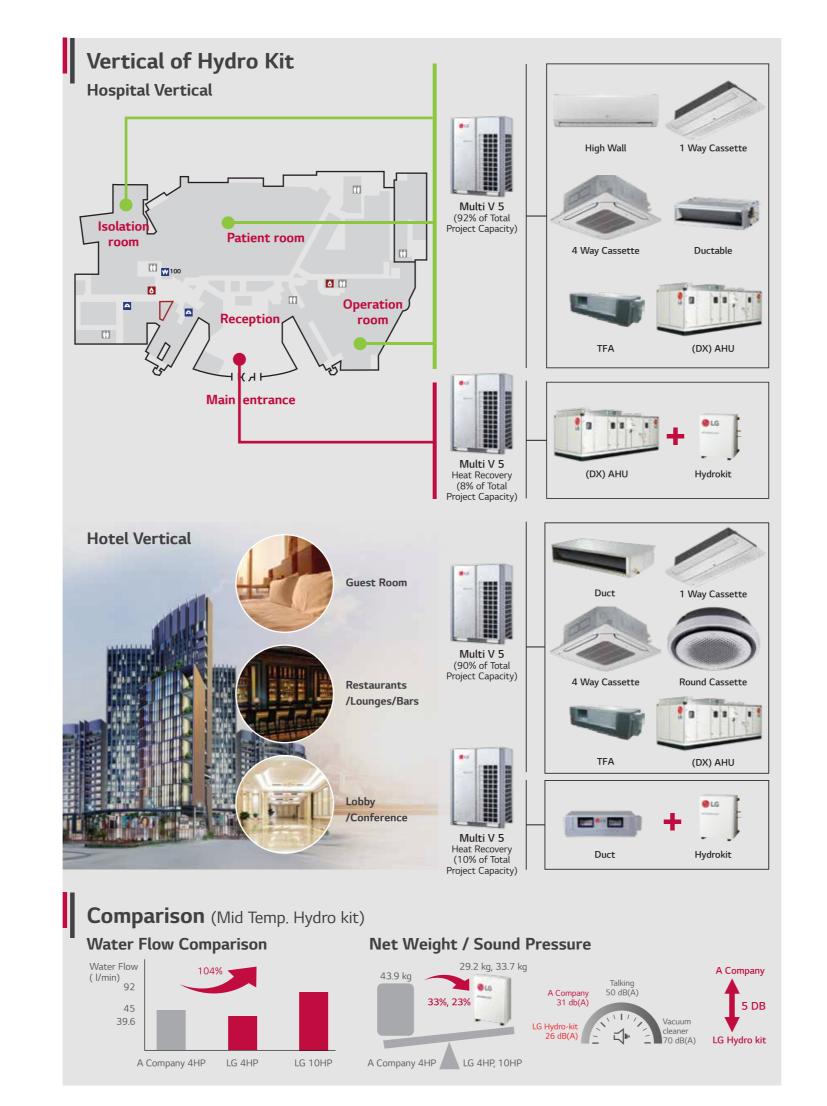
Green energy solution through reduction of CO2 emmisions.



Hydro Kit cycle diagram

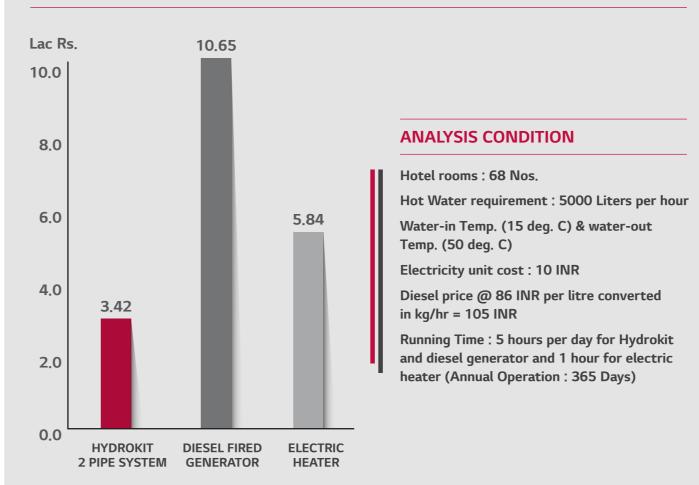
Medium Temperature Hydro Kit cycle diagram





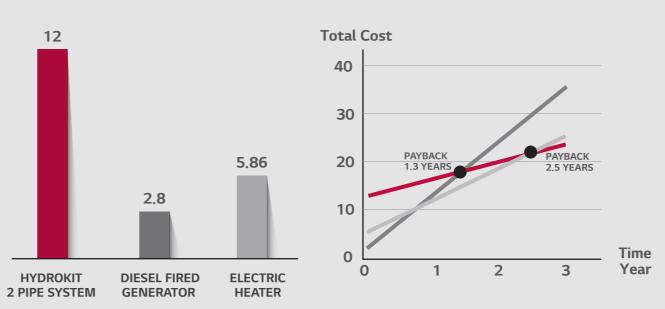
Cost comparison & pay back period vs Diesel Generator/ **Electric Heater (Only Hot Water Solution)**

COMPARISON OF YEARLY OPERATING COST



INVESTMENT COST [UNIT : LAC RS]

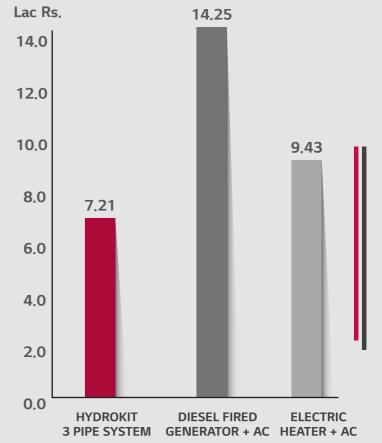
PAY BACK TERM [UNIT : LAC RS]



- 20 HP Heat Pump VRF system with 10 HP x 2 Nos. of Hydro Kit (Mid Temp.)
- Electric Heater: 2kw x 68 Nos.

Cost comparison & pay back period vs Diesel Generator/ Electric Heater (Simultaneous Hot Water & Air-Conditioning)





ANALYSIS CONDITION

Hotel rooms: 68 Nos.

Hot Water requirement: 5000 Liters per hour

Water-in Temp. (15 deg. C) & water-out

Temp. (50 deg. C)

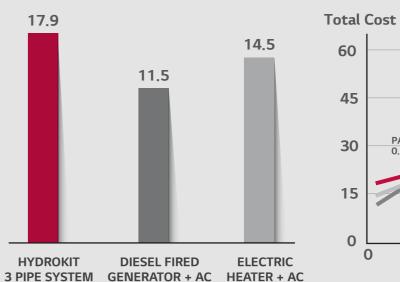
Electricity unit cost: 10 INR

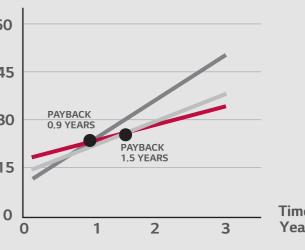
Diesel price @ 86 INR per litre converted

in kg/hr = 105 INR

Running Time: 5 hours per day for Hydrokit and diesel generator and 1 hour for electric heater (Annual Operation: 365 Days)

INVESTMENT COST [UNIT : LAC RS] PAY BACK TERM [UNIT: LAC RS]





32 HP Heat Recovery VRF system with 10 HP x 2 Nos. of Hydro Kit (Mid Temp.) + Indoors : 6.3 TR x 3 Nos. AC only - 24 HP outdoor with 6.3 TR x 3 Nos. Indoor + Diesel Fired Generator: 500000 Kcal. (AMW005) AC only - 24 HP outdoor with 6.3 TR x 3 Nos. Indoor + Electric Heater: 2 KW x 68 Nos.