

## Line up

# MULTI V™ 5

Appearance	8 - 12	14 - 20	22 - 26	28 - 48	50 - 72	74 - 96
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## 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



Model	PRHR023	PRHR033	PRHR043	PRHR063	PRHR083	
Max. Connectable No. of Indoor Units	16	24	32	48	64	
Max. Connectable No. of Indoor Units of a branch	8	8	8	8	8	
Net. Weight	kg	14.9	16.7	18.2	27.2	
	lbs	32.8	36.8	40.1	60	
Dimensions (WxHxD)	mm	786 X 218 X 657	786 X 218 X 657	786 X 218 X 657	1113 X 218 X 657	
	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	
Casing	Galvanized steel plate					
Connecting Pipes	Indoor	Liquid Pipe [mm/inch]	Ø9.52[3/8] - Ø6.35[1/4]			
		Gas Pipe [mm/inch]	Ø15.88[5/8] - Ø12.7[1/2]		Ø15.88[5/8] - Ø12.7[1/2]	
	Outdoor	Liquid [mm/inch]	Ø9.52[3/8]	Ø12.7[1/2]	Ø15.88[5/8]	Ø15.88[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					

## Line up

# Hydro Kit

Model	Unit	MEDIUM TEMPERATURE HYDROKIT		HIGH TEMPERATURE HYDROKIT			
		ARNH04GK2A4	ARNH10GK2A4	ARNH04GK3A4	ARNH08GK3A4		
Capacity (Rated)	Cooling	kW	12.3	28	-	-	
		kcal/h	10,580	24,100	-	-	
	Heating	kW	13.8	31.5	13.8	25.2	
		kcal/h	11,870	27,100	11,870	21,700	
		Btu/h	42,000	95,900	-	-	
		Btu/h	47,000	107,500	47,000	86,000	
Casing	Material	-	Painted Steel Plate	Painted Steel Plate	Painted Steel Plate	Painted Steel 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	
			kg (lbs)	29.2 (64.4)	33.7 (74.3)	86.0 (189.6)	90.0 (198.4)
Heat Exchanger	Refrigerant to Refrigerant	Type	-	-	Brazed Plate HEX	Brazed Plate HEX	
		Quantity	EA	-	-	1	1
		Number of Plate	EA	-	-	50	60
	Refrigerant to Water	Type	-	Brazed Plate HEX	Brazed Plate HEX	Brazed Plate HEX	Brazed Plate HEX
		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	Type	-	-	-	LG BLDC Inverter Compressor	LG BLDC Inverter Compressor	
	Starting Method	-	-	-	Direct On Line	Direct On Line	
Piping Connections	Water Side	Inlet	A (inch)	25A (Male PT1)	25A (Male PT1)	25A (Male PT1)	
		Outlet	A (inch)	25A (Male PT1)	25A (Male PT1)	25A (Male PT1)	
	Refrigerant Side	Liquid	mm (inch)	9.52 (3/8)	9.52 (3/8)	9.52 (3/8)	
		Gas	mm (inch)	15.88 (5/8)	22.2 (7/8)	15.88 (5/8)	
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		ØV/Hz	1,220-240,50/60	1,220-240,50/60	1,220-240,50/60	1,220-240,50/60	

### \*Notes

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

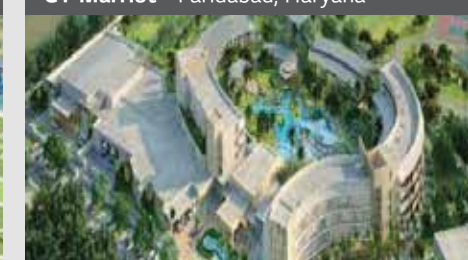
Adani House - Ahmedabad



Outdoor Unit : Multi V 2804 HP

- Hydro Kit 48 HP
- AHU's
- High Static Duct
- Low Static Duct
- Cassettes

CY Marriot - Faridabad, Haryana



Outdoor Unit : Multi V 890 HP

- Hydro Kit 32 HP
- AHU's
- High Static Duct
- Low Static Duct

Preethi Hospital - Madhurai



Outdoor Unit : Multi V 524 HP

- Hydro Kit 32 HP
- AHU's
- High Static Duct
- Low Static Duct

Vythiri Village Resort - Wayanad



Outdoor Unit : Multi V 374 HP

- Hydro Kit 42 HP
- Low Static Duct

Sanjeevanam Ayurveda Hospital - Cochin



Outdoor Unit : Multi V 368 HP

- Hydro Kit 16 HP
- AHU's
- High Static Duct
- Low Static Duct

Hotel Benz Park - Chennai



Outdoor Unit : Multi V 170 HP

- Hydro Kit 8 HP
- AHU's
- Low Static Duct

Kerudi Health Care - Bagalkot



Outdoor Unit : Multi V 136 HP

- Hydro Kit 16 HP
- AHU's
- High Static Duct
- Low Static Duct

Makino Office - Bengaluru



Outdoor Unit : Multi V 138 HP

- Hydro Kit 4 HP
- Cassettes
- High Static Duct
- Low Static Duct

Hotel Diplomat - New Delhi



Outdoor Unit : Multi V 100 HP

- Hydro Kit 8 HP
- Low Static Duct

Regenta Central - Nagoa, Goa



Outdoor Unit : Multi V 100 HP

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

Rajahamsa Hotel - Anantapur A.P.



Outdoor Unit : Multi V 110 HP

- Hydro Kit 12 HP
- Mid Static Duct

Triose Plaza - Mumbai



Outdoor Unit : Multi V 62 HP

- Hydro Kit 20 HP
- Low Static Duct

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Hydro Kit





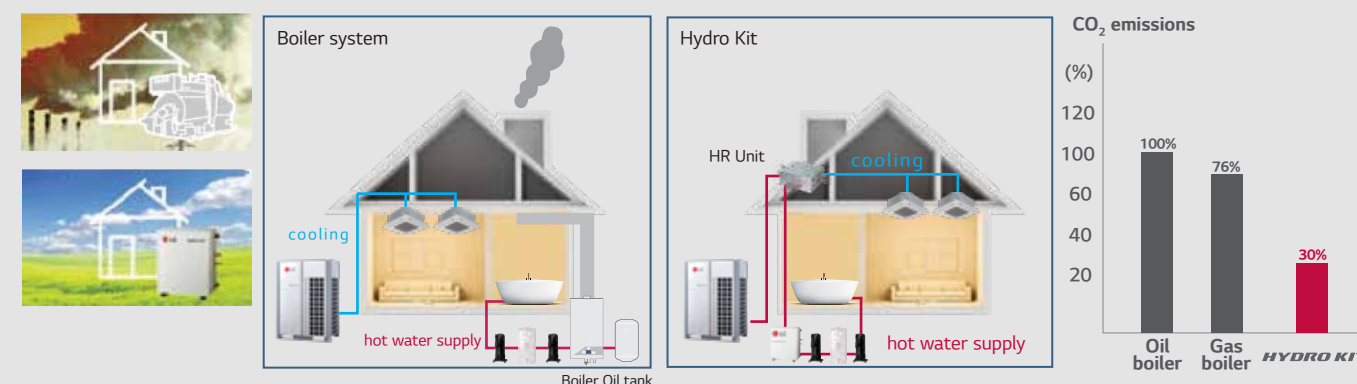
## What is Hydro Kit?

Hydro Kit is Eco-friendly and 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. Thereby, minimizing energy costs and CO2 emissions compared to boiler system.



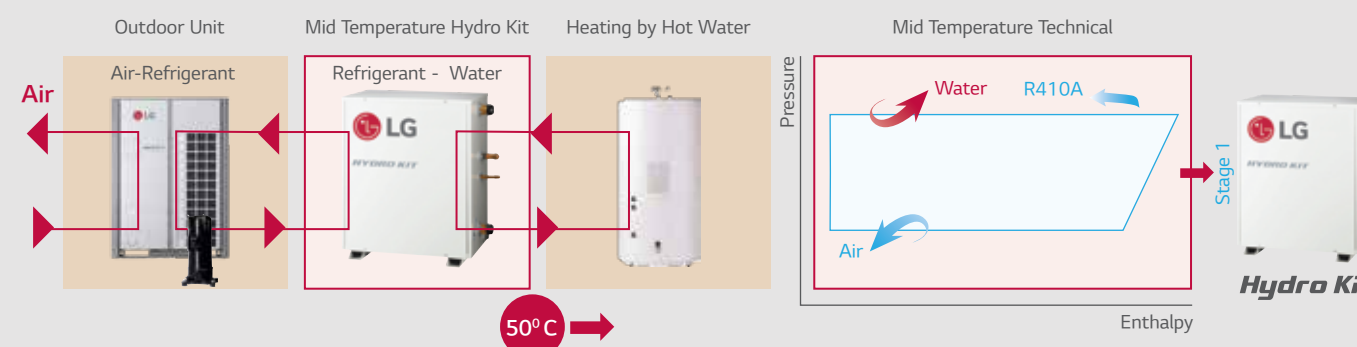
## Eco-friendly green Energy solution

Green energy solution through reduction of CO2 emissions.

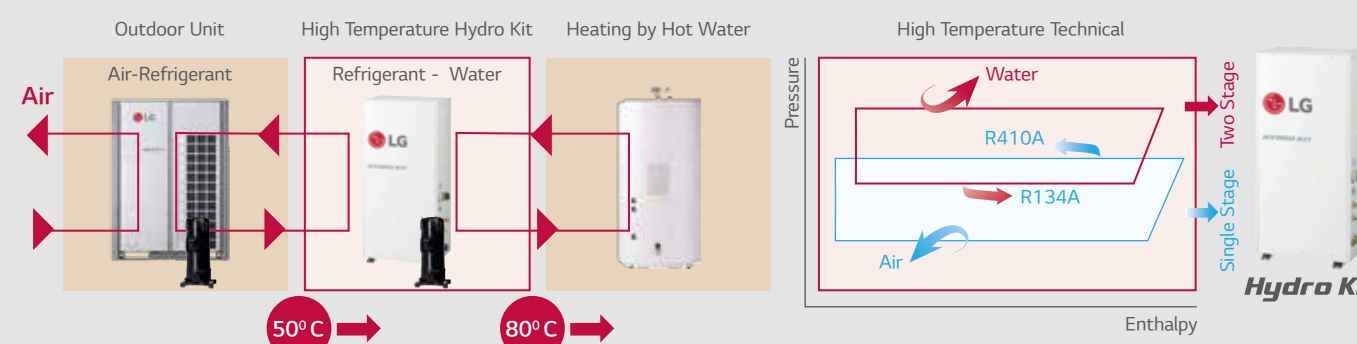


## Hydro Kit cycle diagram

### Medium Temperature Hydro Kit cycle diagram

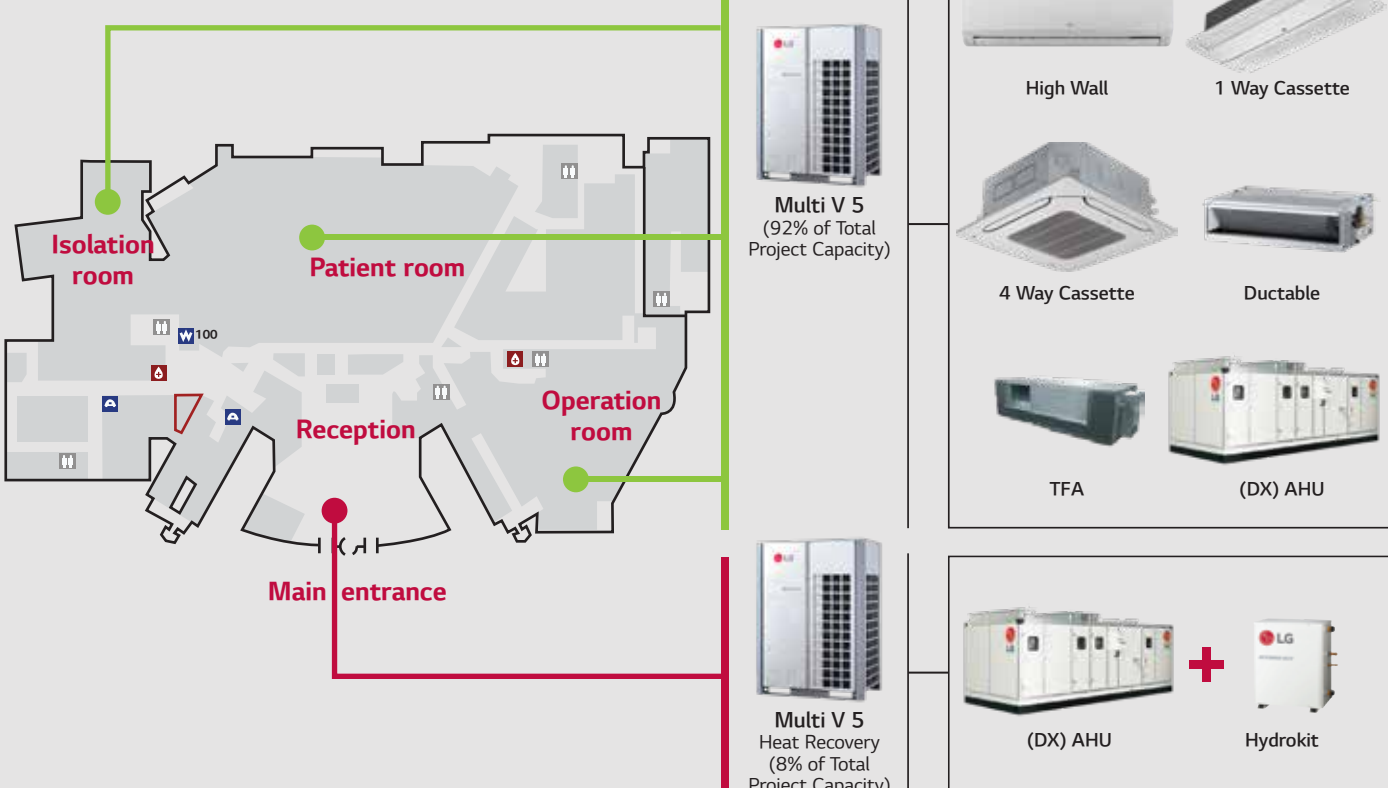


### High Temperature Hydro Kit cycle diagram



## Vertical of Hydro Kit

### Hospital Vertical

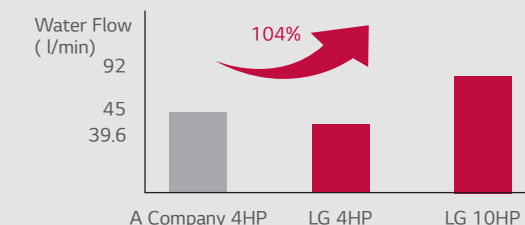


### Hotel Vertical

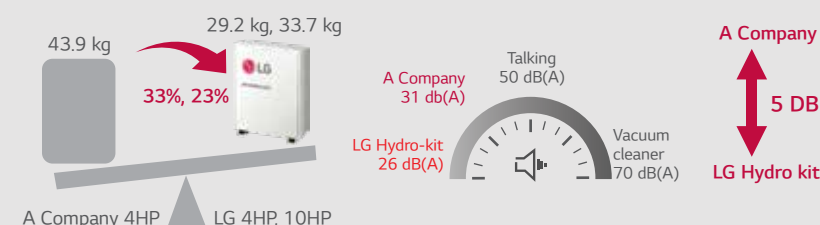


## Comparison (Mid Temp. Hydro kit)

### Water Flow Comparison

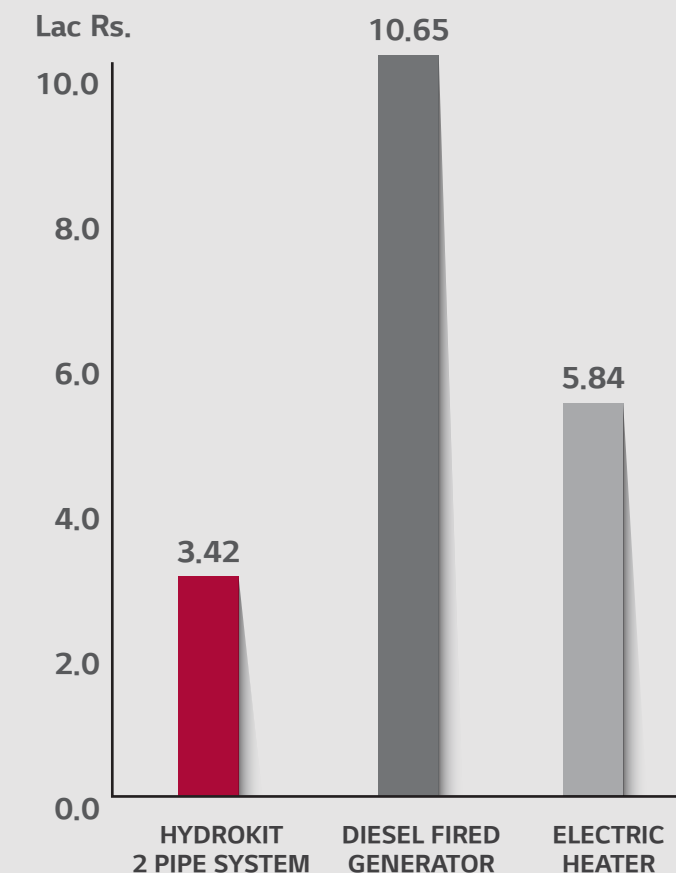


### Net Weight / Sound Pressure



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

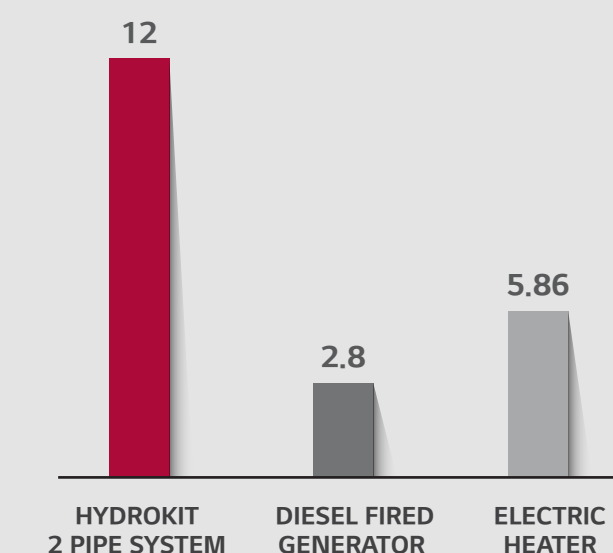
### COMPARISON OF YEARLY OPERATING COST



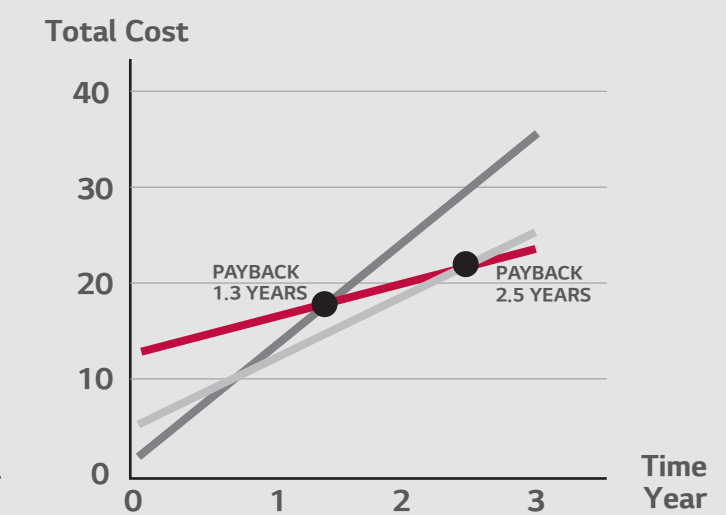
### ANALYSIS CONDITION

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]



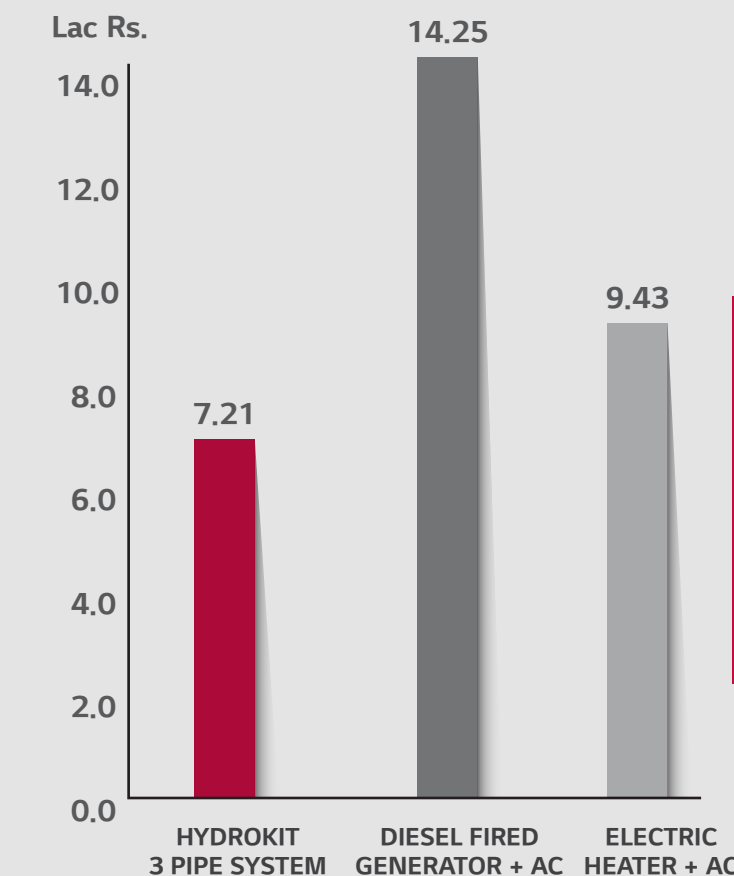
### PAY BACK TERM [UNIT : LAC RS]



Equipment Detail :  
 ■ 20 HP Heat Pump VRF system with 10 HP x 2 Nos. of Hydro Kit (Mid Temp.)  
 ■ Diesel Fired Generator : 500000 Kcal. (AMW005)  
 ■ Electric Heater : 2kw x 68 Nos.

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

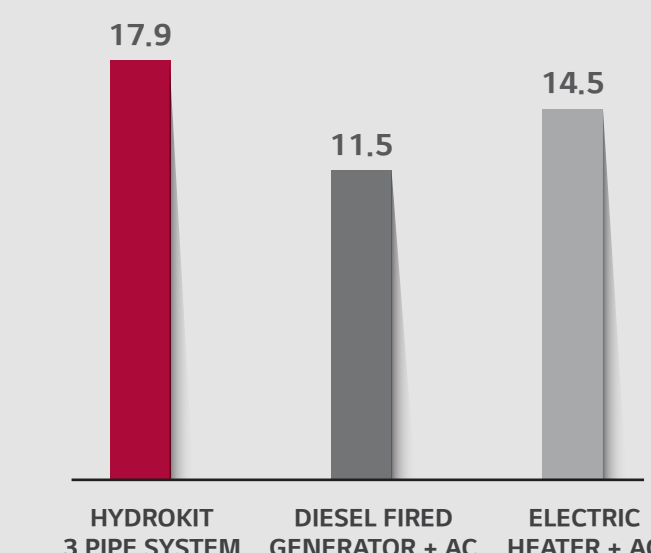
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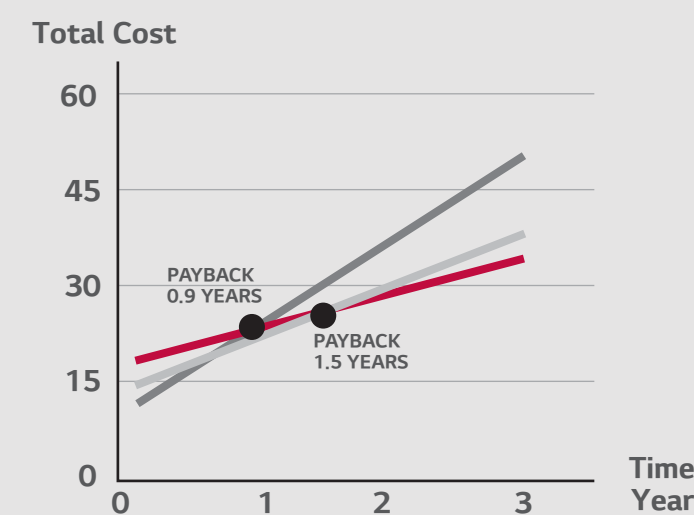
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### INVESTMENT COST [UNIT : LAC RS]



### PAY BACK TERM [UNIT : LAC RS]



Equipment Detail :  
 ■ 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.