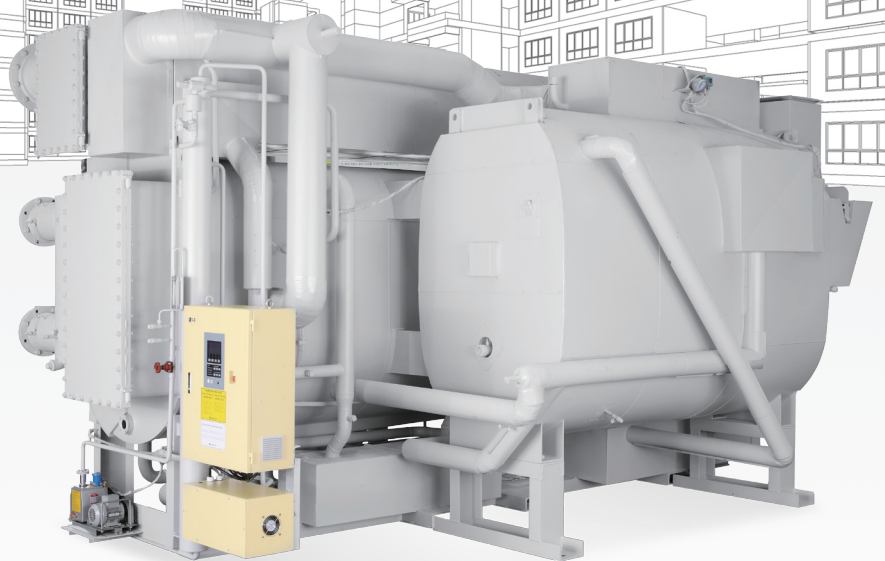


LG HVAC SOLUTION

LG ABSORPTION CHILLER



COP 1.51

Cooling Capacity
28-4,000RT

Why LG Absorption Chiller?

LG Electronics developed world class absorption chiller through advanced technologies and manufacturing/installation/operation experience over several decades. LG absorption chiller is high efficient and reliable by adapting newly designed stainless steel tube, inverter pump, and various safety functions.

Stainless Steel Tube
Corrosion resistance characteristic
Powerful heat transfer performance

Marine Type Water Box
Simple & convenience pipe cleaning

User Friendly Controller
LCD display : easy to check status
Various control functions

Purge System
Oil separator for protecting machine
Absorbent separator for protecting vacuum pump

Series Solution Flow
Inverter pump : easy & reliable flow control
Simple piping line : maintenance convenience

Vacuum pump

Purge system

Inverter pump

Direct Fired Absorption Chiller & Heater COP 1.51

Model : WCDH
Temperature condition
• Evaporator : 12°C→7°C
• Condenser : 32°C→37°C
Fouling Factor : 0.0001 m²/hr °C kcal

High energy efficiency

- Develop COP 1.51 absorption chiller
- High part load efficiency with inverter pump

Reliability & Stability

- Adopt stainless steel tube
- Gravity loading tray type dropping
- Series flow with inverter pump control
- Self-diagnosis functions, safety functions
(Crystallization prevention, Freezing prevention, Leakage detection)

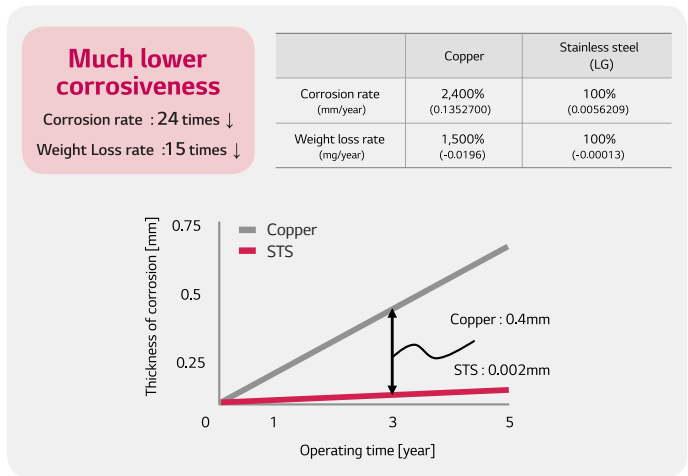
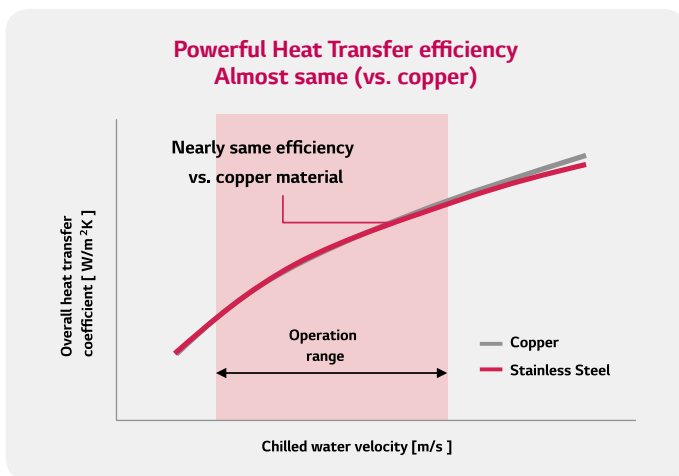
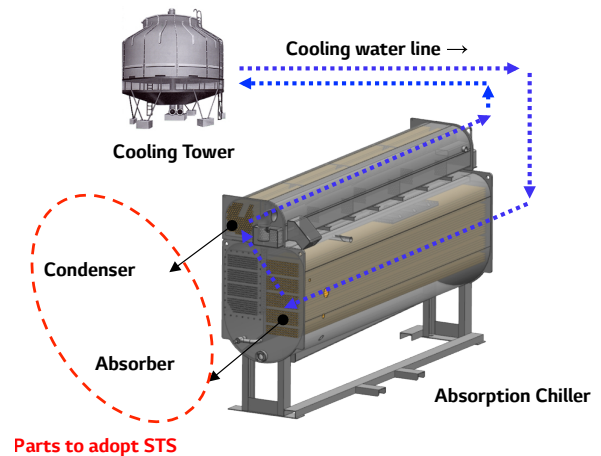
Convenience

- Multi-sectional shipment
- Easy Maintenance (Simple pipe cleaning)
- Digital pressure transmitter
- Easy BMS Interface
(Modbus, TCP/IP, BACnet, LONWORK)



High Reliable Stainless Steel Tube

For product reliability, cooling water tubes in absorber & condenser should be protected from corrosive environment. Specially designed stainless steel(STS) tube has much lower corrosiveness compared to copper tube. Also, it achieved powerful heat transfer performance which is nearly same as copper tube's performance

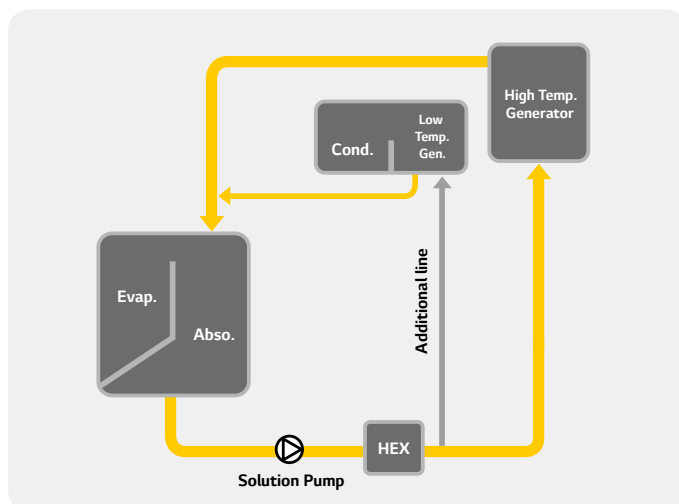


Precise Inverter Control of Part-load Absorbent Flow

By utilizing Series Flow and inverter pump, it becomes easier to control absorbent flow along the pipe line.

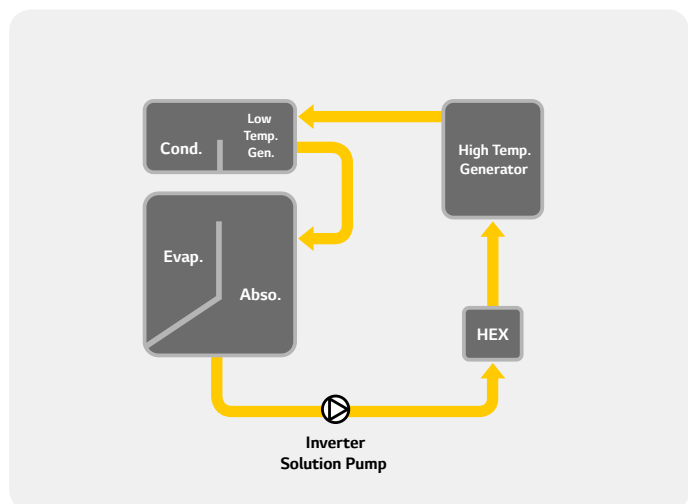
Parallel Flow

- Difficult to control absorbent flow rate according to load
- Increasing number of pipe line
- Inconvenient maintenance
- Inverter pump is not available



Series Flow (LG)

- Precise control of absorbent flow rate by load
- Decreasing number of pipe line
- Convenient maintenance
- Soft start/stop by inverter pump



Line-up

(Unit : usRT)

Direct fired absorption chiller & heater		COP	Available	0	100	500	1,000	1,500	3,000
	WCDH Direct fired	1.51	LNG		100		1,500		3,000
	WCDN Direct fired	1.34	LPG Bio-Gas	50		700			3,000
	WCDS Direct fired	1.12	Exhaust Gas		100		1,500		3,000
	WCDA Direct fired	0.95	Oil	50-80					

(Unit : usRT)

Absorption chiller		COP	Available	0	100	500	1,000	1,500	4,000
	WCSH Steam fired	1.50	Steam Pressure 4 ~ 8kg/cm ²		100		1,500		4,000
	WCSS Steam fired	1.21			100		1,500		4,000
	WCMW Hot water fired	0.72	Outlet Temp. 85 ~ 75°C	28			1,020		2,000
	WC2H Hot water fired	0.74	Outlet Temp. 70 ~ 55°C		73		1,350		2,000
	WCMH Hot water fired	0.80	Outlet Temp. 85 ~ 70°C	28			1,020		2,000

(Unit : kW)

Heat pump		COP	Available	0	300	1,000	5,000	10,000	20,000	30,000
	WCPX Heat pump	0.80	Gas Steam Hot water				349			30,218

* Available on request.

LG Electronics, Home appliance & Air solution company

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