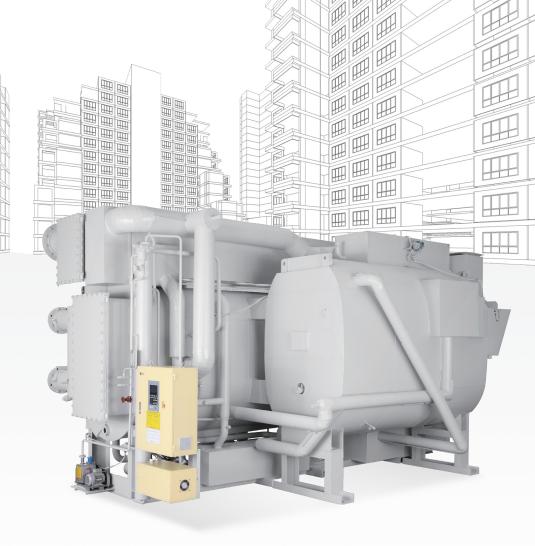


LG HVAC SOLUTION

LG ABSORPTION CHILLER



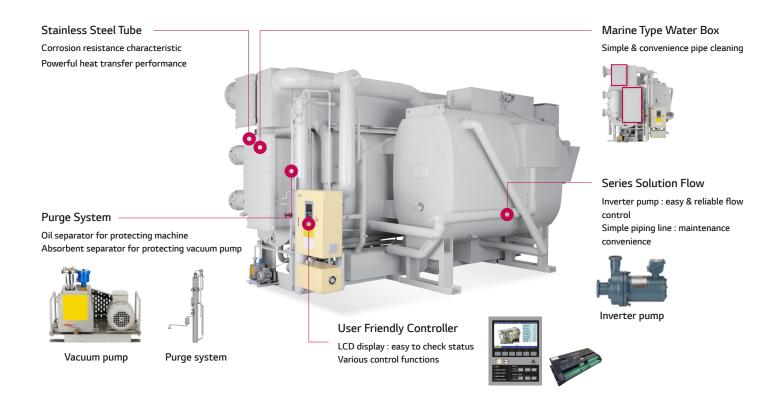
COP 1.51

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.



Direct Fired Absorption Chiller & Heater

COP 1.51

Temperature condition • Evaporator: 12°C→7°C • Condensor: 22°C→27°C

Evaporator: 12°C→7°C
 Condenser: 32°C→37°C
 Fouling Factor: 0.0001 m²/hr °C kcal

Model: WCDH

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)



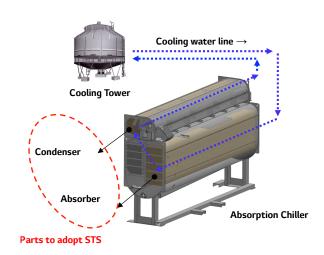


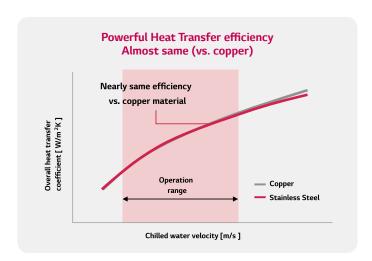
High Reliable Stainless Steel Tube

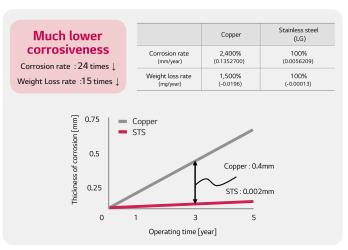
For product reliability, cooling water tubes in absorber & condenser should be protected from corrosive environment.

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

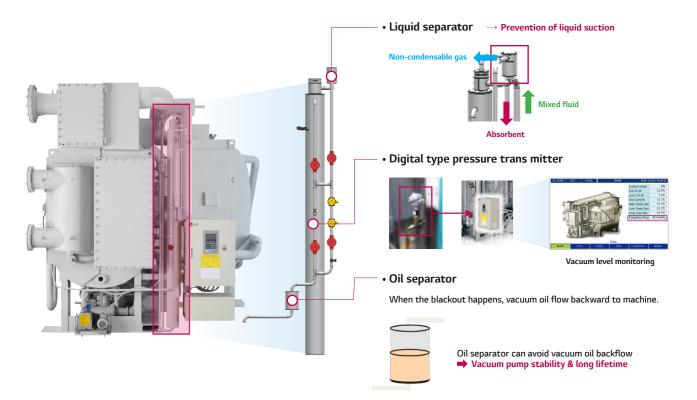






Auto purging system

Maintain stable vacuum condition by avoiding liquid carry over and oil backflow when blackout or emergency stop occur.



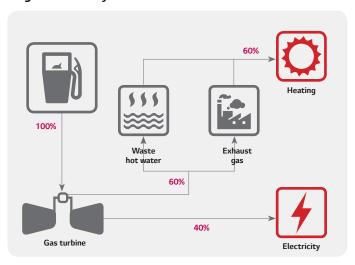


Hybrid Absorption Chiller

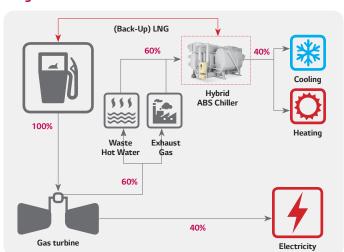
Hybrid absorption chiller adapted to tri-generation(electricity + steam + chilled water) system utilizes various heat sources, such as multiple source(steam/hot water) and waste heat.

By recovering waste heat, the chiller is eco-friendly and high energy efficient.

Cogeneration System



Tri-generation



By using LNG, chiller can operation in isolation from turbine.

Absorption chiller application

								_		
Product	Division	Available	Туре	Efficiency(COP)	Line-up	Stainless Steela	application (STS)	Remark		
	Ultra-High		MCDII	4.54	100 1 50007	Con (CU)	Gen (CU)			
	Efficiency		WCDH	1.51	100~1,500RT	Eva (CU)	Abs (CU)	 World class high efficiency 		
			14(CD1)(2)	4.44	50.4.500DT	Con (STS)	Gen (CU)	Enhanced efficiency of the part		
D: . C . I	11: 1 500 :	LNG LPG	WCDN(3)	1.41	50~1,500RT	Eva (CU)	Abs (STS)	load(Part load : 25 ~ 75%)		
Direct fired	High Efficiency	Bio-Gas Exhaust gas				Con (STS)	Gen (CU)			
		Oil	WCDN(2)	1.34	100~700RT	Eva (CU)	Abs (STS)	 Enhanced stability & Reliability 		
	Standard					Con (STS)	Gen (CU)			
	Efficiency		WCDS(2)	1.12	100~1,500RT	Eva (STS)	Abs (STS)	 Steady best selling model 		
						Con (CU)	Gen (STS)	Low Temperature outlet		
	2-stage Driven		WC2H	0.82	90~1,350RT	Eva (CU)	Abs (STS)	Outlet Temp : 55°C		
	(Single Effect)	Inlet Temperature		0.74		Con (CU)	Gen (STS)	Low Temperature outlet		
Hot water		Standard 95°C (130 ~ 85°C)	WC2N	0.74	90~1,350RT	Eva (CU)	Abs (STS)	Outlet Temp : 55°C		
	1-stage Driven					Con (CU)	Gen (STS)	World Class High Efficiency Expansion		
	(Single Effect)		WCMH	0.9	30~1,350RT	Eva (CU)	Abs (CU)	of coverage (Hot water : △t 23°C) Outlet Temp : 72°C		
						Con (CU)	Gen (STS)	High Temp Generator (STS)		
	Steam Pressure		WCSH	1.67	100~1,500RT	Eva (CU)	Abs (CU)	Low Temp Generator (CU)		
Steam	1~8 kg/cm ²	Steam -				Con (STS)	Gen (STS)	High Temp Generator (Cu-Ni)		
			WCSS(2)	1.34	100~1,500RT	Eva (STS)	Abs (STS)	Low Temp Generator (CU)		
	Complex Heat		WCHA	-	-			3-stage heat source (Exhaust Gas + How Water + LNG(Back-up))		
Application	Source	Multi heat source	WCHW	-	-	- Dononding on	site conditions	2-stage heat source (Exhaust Gas + Hot water)		
(Hybrid)	Exhaust gas		WCEH - 100~1,		100~1,500RT	- Depending on	SILE CUITUILIUIS	Only Exhaust gas		
	Heat pump	Waste heat Source	WCPX	-	260~2,600 10 ⁴ kcal/h	-		1-stage heat pump		



Line-up

(Unit:usRT)

Direct fired absorption chiller	0	100	500	1,000	1,500			3,000	
	WCDH (H Series)		100			1,500			3,000
	WCDN(3) (N Series)		50			1,500			3,000
	WCDN(2) (N Series)		100	700					3,000
	WCDS(2) (S Series)		100			1,500	; ;	·	3,000

(Unit:usRT)

Hot water fired absorption cl	niller	0	100	500	1,000	1,500 2,000	4,000
	WCMH	30)		1,350	2,000	
	WC2H		90		1,350	2,000	
	WC2N		90		1,350	2,000	

(Unit:usRT)

Steam fired absorption chil	0	100	500	1,000	1,500		4,000	
	WCSH		100			1,500		4,000
	WCSS(2)		100			1,500		4,000

(Unit:usRT)

Hybrid absorption chiller			100	500	1,000	1,500	2,000	3,000	4,000
	WCHA		100			1,500			3,000
	WCHW		100			1,500			3,000
	WCEH		100			1,500			3,000

(Unit: 104kcal/h)

Heat pump			300	500	1,000	1,500)	2,0	00	3,000	
	WCPX		260						2 600		
	VVCFX		200						2,000		



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