

# Sakura Air Conditioner User-friendly, Earth-friendly

- High Performance
- High Efficiency
- Easy Installation / Maintenance
- Low Operation Cost



**SAKURA GHP**  
(Gas Engine Driven Heat Pump for Building Multi Outdoor Unit)

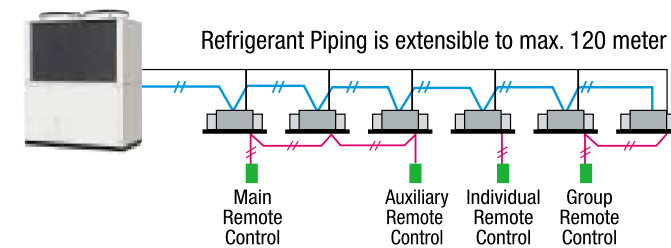
# SAKURA GHP (Gas Engine Driven Heat Pump for Building Multi Outdoor Unit)



Indoor Unit



Multi Control System (Max. 16 Indoor Units with 1 Outdoor Unit)



Gas Supply Pressure

Type	LNG
Maximum	2.5/250
Standard	2.0/200
Minimum	1.5/150

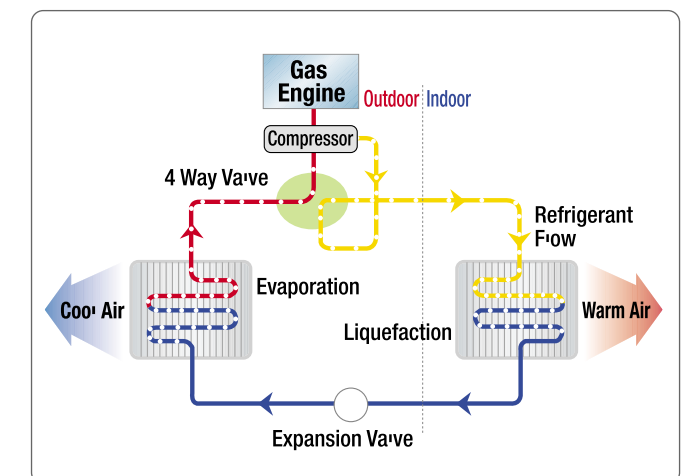
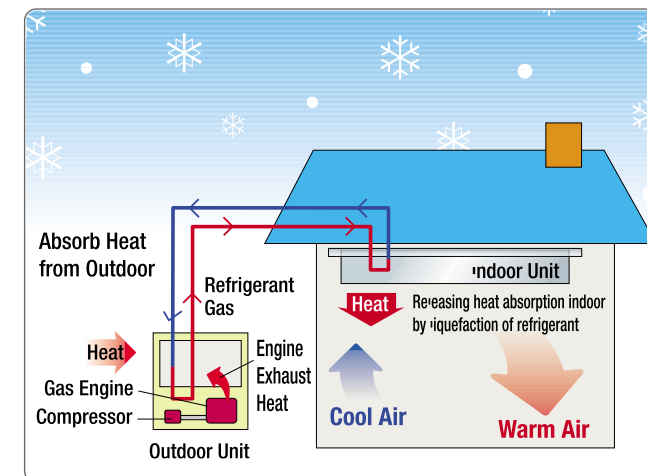
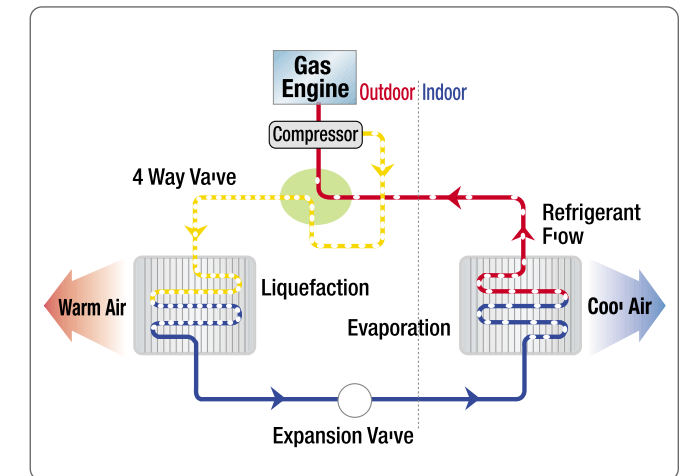
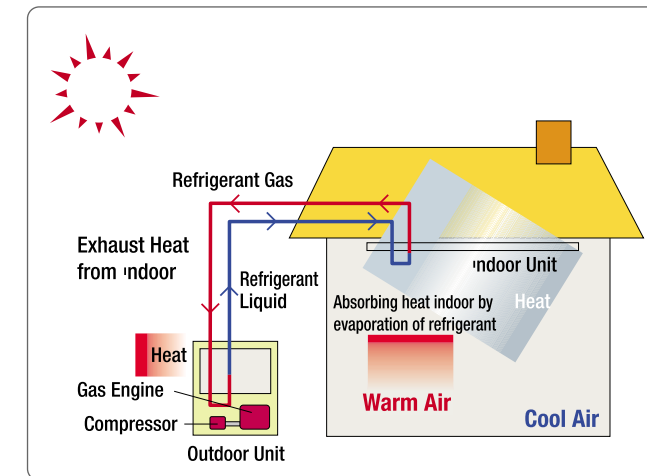
## Specifications

Model No.		SHP-O450K 1		SHP-O560K 1	
Horse Power		16		20	
Electric Power		3 Phase, 380V, 50Hz		3 Phase, 380V, 50Hz	
Capacity	Cooling	kW	45.0	kW	56.0
	Heating	kW	54.0	kW	67.0
Dimensions (H x W x L)		mm	2,232 x 1,728 x 1,005	mm	2,232 x 1,728 x 1,005
Weight		kg	970	kg	990
	Running Current	A	2.5	A	2.5
Electric Characteristics	Cooling	Power Consumption	kW	1.5	1.5
		Power Ratio	%	91	91
		Starting Current	A	30	30
	Heating	Power Consumption	kW	1.5	1.5
		Power Ratio	%	90	90
		Starting Current	A	30	30
Fuel Consumption	Cooling	kW	40.1	kW	49.5
	Heating	kW	37.0	kW	47.5
	Low Temperature Heating	kW	47.1	kW	55.5
Compressor	Refrigerant Oil	/	5	/	5
	Crank Case Heater	W	70	W	70
	Lubricating Oil	/	50	/	50
Engine	Revolution	rpm	800 ~ 1,800	rpm	800 ~ 2,000
	Rated Output	kW	12.1	kW	15.0
	Starting Motor		DC12V, 1.7kW		DC12V, 1.7kW
	Starting System		AC / DC Conversion, DC Starter		AC / DC Conversion, DC Starter
	Coolant Charging Volume	/	40	/	40
	Concentration and Freezing Temperature		50V/V% -35 °C		50V/V% -35 °C
Engine Coolant-Pump-Motor Rated Output	kW	0.42	kW	0.42	
Refrigerant Volume	kg	22	kg	22	
Air Suction Port		Front / Rear		Front / Rear	
Air Discharge Port		Upper		Upper	
Pipe Dimensions	Refrigerant Gas Pipe		∅ 38.1 (Soldering)		∅ 38.1 (Soldering)
	Refrigerant Liquid Pipe		∅ 19.05 (Soldering)		∅ 19.05 (Soldering)
	Fuel Gas Pipe		R 3/4 (Male Screw)		R 3/4 (Male Screw)
	Exhaust Drain Pipe		∅ 27 (Hose)		∅ 27 (Hose)
Noise Level (in operation)	dB(A)	60	dB(A)	60	
Fan	Type x Number of Units		Propeller Fan x 2		Propeller Fan x 2
	Rated Air Volume	m <sup>3</sup> /min	300	m <sup>3</sup> /min	300
	Rated Output of Motor	kW	0.45 x 2	kW	0.45 x 2
Drain Filtering Heater	W	50	W	50	
Fuel Heater	W	50	W	50	
Refrigerant Heater	W	250	W	250	
Painting Color		Ivory		Ivory	

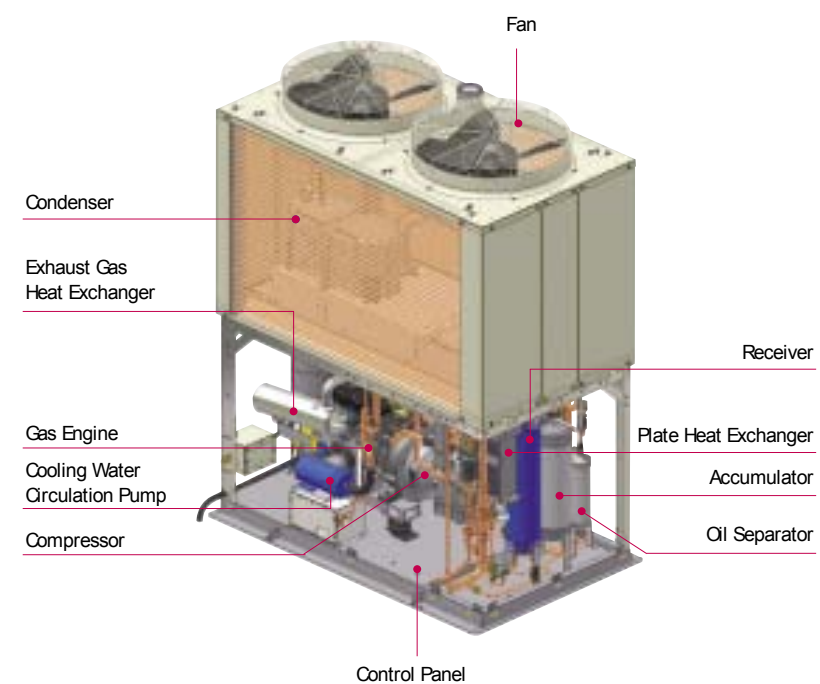
(\*) Cooling and heating capacity are rated capacity.  
Capacity is based on : Cooling mode - Indoor unit 27 °C DB, 19.5 °C WB / Outdoor unit 35 °C DB, 24 °C WB  
Heating mode - Indoor unit 20 °C DB / Outdoor unit 7 °C DB, 6 °C WB

## What is GHP?

GHP: Highly efficient and Clean system  
Being driven by Gas Engine to distribute Refrigerant from Outdoor to Indoor unit, Gas-engine-driven Heat Pump system works as the most efficient and clean unit of Heating and Cooling system of GAS-operated.



## Outdoor Unit



## Features

- 20HP(Cooling 56kW, Heating 67kW)  
16HP(Cooling 45kW, Heating 54kW)
- COP 1.25 (Average for Cooling and Heating)
- Maximum 16 Connections of Indoor Units
- Adopts exclusively designed Gas Engine
- Individual and Central Control