

SAM JUNG

SPEED CHILLER
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Company Overview

SAMJUNG ENC Co., Ltd., a long-term manufacturer specializing in industrial chillers for 27 years

Since SAMJUNG ENC Co., Ltd. has been established in May 30, 1993, it is a company that specializes in producing only industrial chillers for 27 years.

Development, mass-production, and commercialization of GLOBAL's best cooling devices for hydrogen gas chargers are helping to revitalize the Korean hydrogen economy, and SAMJUNG ENC Co., Ltd.

Realizes many achievements such as development of CHILLER testing system for GLOBAL's best hydrogen charging system with technology.

SAMJUNG ENC Co., Ltd. is a future-oriented company that leads in cooling equipment technology and aims to "innovate" customer satisfaction through technology development and quality-first principles of meeting and keeping promises of "fidelity" with customers.

all employees SAMJUNG ENC

Company Profile

The first in the chiller industry

EU CE accreditations for all chiller items

Factories 1, 2, 3 - Operating its production lines
Factory 1 (freezing manufacturing)/Factory 2 (metal plate manufacturing)/Factory 3 (heat exchanger)

Chiller specialized developer/manufacturer
SAMJUNG ENC is a specialized company that has developed only chillers since its establishment in 1993.

Proven technology with market share over 90%

- CRYSTAL SAPPHIRE GROWER COOLING SYSTEM
- HOT & COOL 2CHANNEL-3CHANNEL
- SKID CHILLER COOLING SYSTEM

Establish the service response system within 12 hours nationwide

Apply over 40% of heat exchanger parts compared to the similar volume

HISTORY

1993.	05	Found Sam Jung Engineering
1995.	04	Superconducting Cooler Sales Initiation
1999.	12	Initiate development of SPEED CHILLER
2001.	04	ISO 9001/ISO 14001 certificates
2004.	07	Acquisition of a practical patent (Registration No. 0282298)
2007.	07	Change of corporation to SAMJUNG ENC Co., Ltd.
2008.	07	Accreditation of CE, a European standard
2011.	10	EU CE accreditations for all chiller items
2012.	01	First time production of EVAPORATOR TWISTED & SPIRAL COIL in the chiller industry
2012.	03	Manufacturing license of special freezing equipment first time in the chiller industry
2015.	04	Invention patent (10-1511693) a thermal shock cooling and heating system
2015.	04	Invention patent (10-2014-0190214) a pump to prevent from freezing and bursting of chiller
2015.	12	Invention patent (10-1589225) a rapid SKID chiller with the function to prevent from raindrops
2016.	01	Invention patent (10-1589225) a rapid SKID chiller with the function to prevent from raindrops
2016.	05	Establishment of the Corporate Affiliated Research Institute of Samjeong E&C's Gyeongin Branch
2017.	04	Acquisition of Venture Company Confirmation
2017.	04	Obtain Innobiz Confirmation
2018.	01	Expansion to Hwasung Jeongok Marine Industrial Complex
2018.	01	Cooling device for hydrogen gas charger primary production delivery (Yeosu H2 charging station)
2018.	02	New purchase of turning center, machining center
2018.	10	Mechanical equipment construction business registration
2019.	01	Acquisition of a patent for the invention of the oil cooling system (Registration No. 10-1941494)
2019.	02	Acquisition of a patent for invention of a cooling device for hydrogen gas charger (Registration No. 10-194990)
2020.	05	Acquisition of Main Biz Confirmation / Acquisition of Company Specialized in Material, Parts and Equipment / Acquisition of National Root Company Confirmation
2020.	07	Winning the Best Technology Award for Participating in Hydrogen Mobility + Show Exhibition
2020.	12	Awarded Minister of SMEs and Startups
2020.	12	2020 Korea's 14th Patent Awards for Excellence
2021.	01	Hydrogen gas charging gun ice prevention device invention patent (No. 10-2202439)
2021.	02	Acquisition of a patent for low-temperature cooling system for hydrogen gas chargers with oil recovery function (No. 10-2213908)
2021.	02	Acquisition of a patent for the invention of a cooling system for hydrogen gas chargers (No. 10-2217530)
2021.	02	Obtain confirmation of participation in the campaign for work-life balance
2021.	06	Registered as a member of the Hydrogen Convergence Alliance (H2KOREA)

Product Features

SAMJUNG SPEED CHILLER FEATURES



The specially developed design minimizes the unnecessary space inside the CHILLER while maximizing the maintenance space to minimize the installation area. SAMJUNG ENC Co., Ltd. has secured functions and safety so that it can be used widely from primary industrial sites to cutting-edge semiconductor production processes, and more than 40% of the internal components of SPEED CHILLER using semiconductor application technology were developed and manufactured to be permanently usable, and have also made every effort to maintain maintenance and compatibility of parts. The chronic problems of GAS LEEK and WATER LEEK of existing coolers and freezer-related products have been fundamentally solved, and by introducing a system that can minimize loss of compressor motor and various motor coils, SAMJUNG ENC Co., Ltd. is challenging to zero defect rate by introducing all SPEED CHILLER models.



기업부설
연구소



벤처기업

INNOBIZ

중소기업
기술혁신협회



NIS ZERT



ISO9001/
ISO 14001

MAIN Biz

한국경영혁신
중소기업협회



국가뿌리산업
진흥센터



발명특허



일·생활균형



인증



실용특허



특허청



클린사업장



소재·부품·장비
전문기업

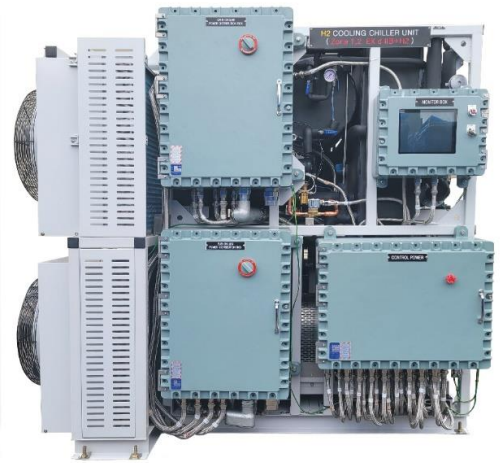




H₂ SUB CHILLER



H₂ MAIN CHILLER



H₂ EXPLOSION PROOF CHILLER
(Zone 1,2 EX d IIB+H₂)

H₂ STATION SPEED CHILLER TECHNOLOGY

SAMJUNG ENC Co., Ltd., a long-term manufacturer specializing in industrial chillers for 27 years

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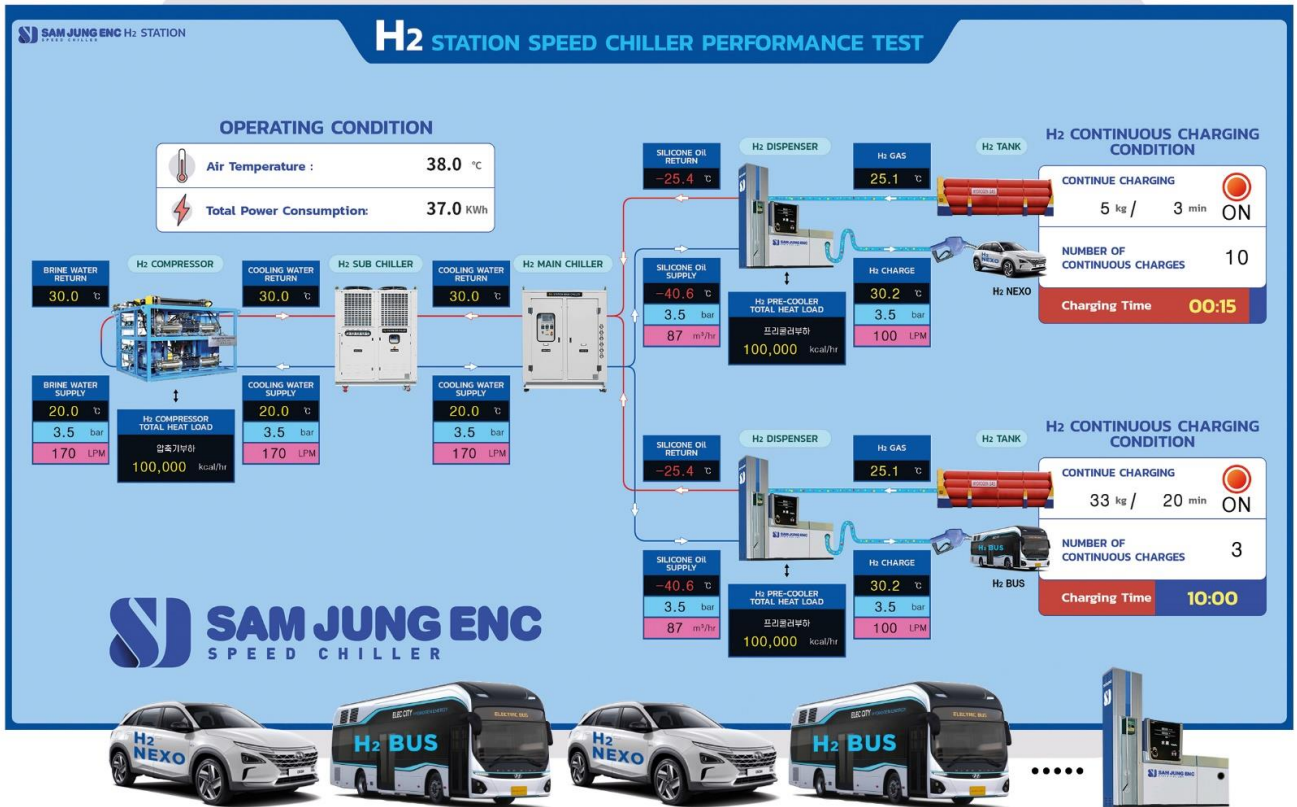
A chiller for
hydrogen gas fueller

INVENTION PATENT

- A chiller control system for hydrogen gas fueller
- A low-temperature cooling system for hydrogen gas fueller with a function to collect oil
- A prevention tool from freezing of fueling gun of hydrogen gas
- A chiller for hydrogen gas fueller
- An oil cooling system
- A chiller with the function to prevent from raindrops
- A rapid SKID chiller with the function to prevent from raindrops
- A chiller for cold water
- A thermal shock cooling and heating system
- A pump to prevent from freezing and bursting of freezer



H₂ STATION SPEED CHILLER PERFORMANCE TEST



SAM JUNG ENC
SPEED CHILLER



● Motivation for Development

1. Dominate the market by securing a price competitive advantage for Hydrogen charging coolers require higher stability and efficiency than general industrial coolers
2. Expect revitalize domestic market and stable maintenance through localization of existing imported goods

● Development Task

1. Secure efficient charging time compared to imported goods
2. Securing price and technology competitiveness through localization

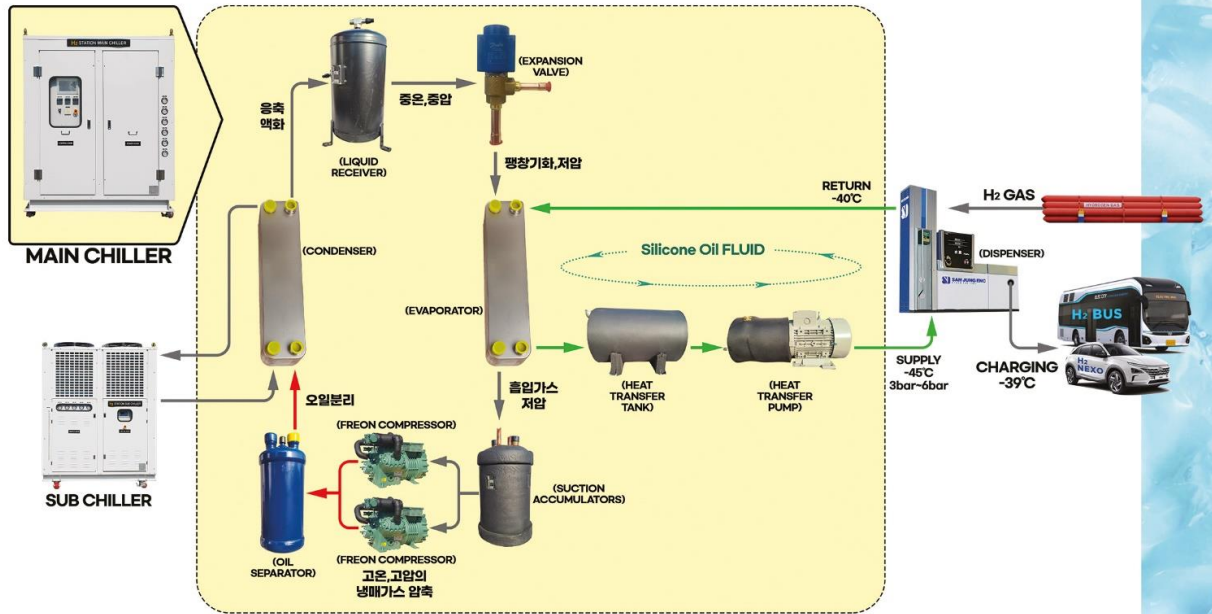
● Development Performance

1. Fast evaporation heat source absorption of refrigerant reduces the charging time of H₂ by cooling the PRE COOLER
2. Improves compressor defect rate by stabilizing refrigerant overheating at low temperature and low pressure to compensate for suction pressure.
3. Improved anti-vacuum and over-temperature protection of compressor motor coil.
4. Theoretical securing that, the minimum evaporation temperature is equal to or higher than the minimum cooling temperature.

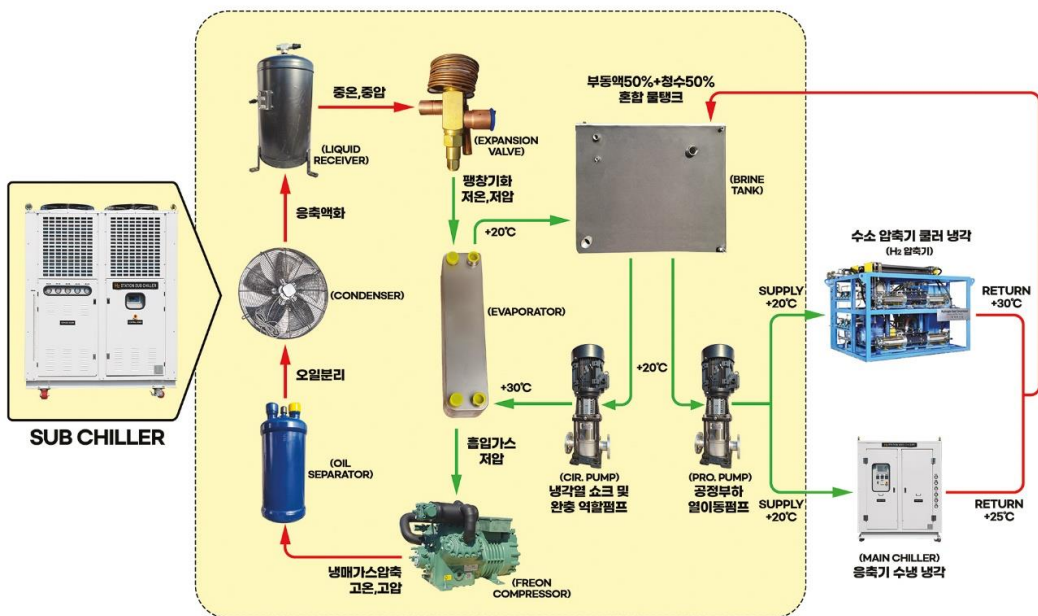
H₂ CHILLER FLOW



H₂ MAIN CHILLER FLOW



H₂ SUB CHILLER FLOW

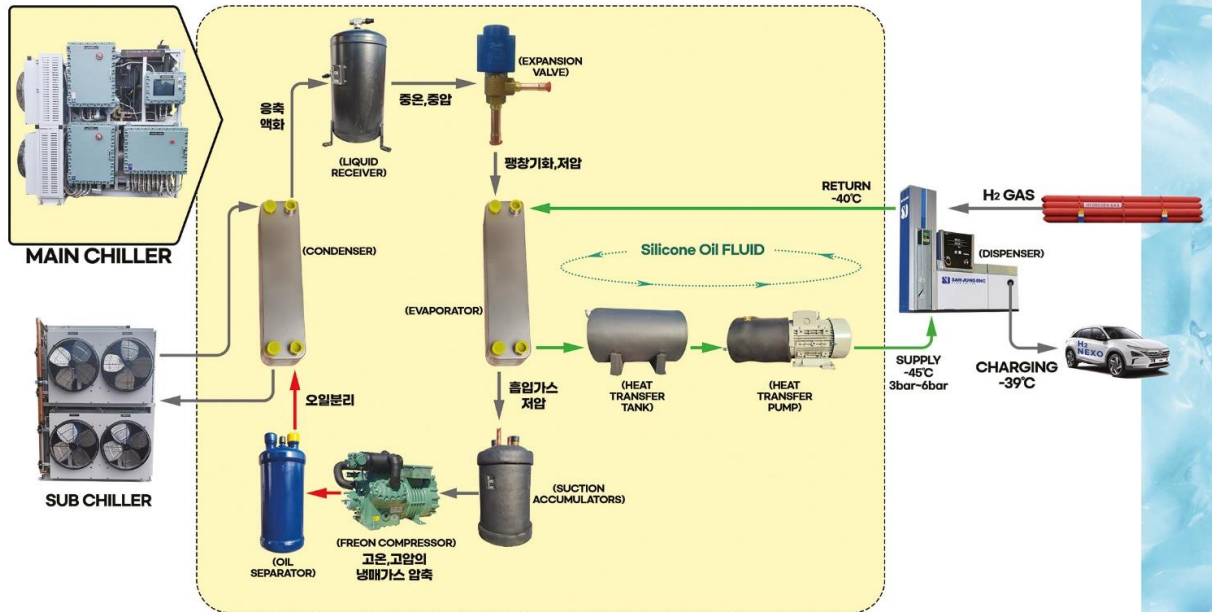


H₂ EXPLOSION PROOF CHILLER

(Zone 1,2 EX d IIB + H₂)



H₂ EXPLOSION PROOF CHILLER FLOW



H₂ EXPLOSION PROOF CHILLER SYSTEM



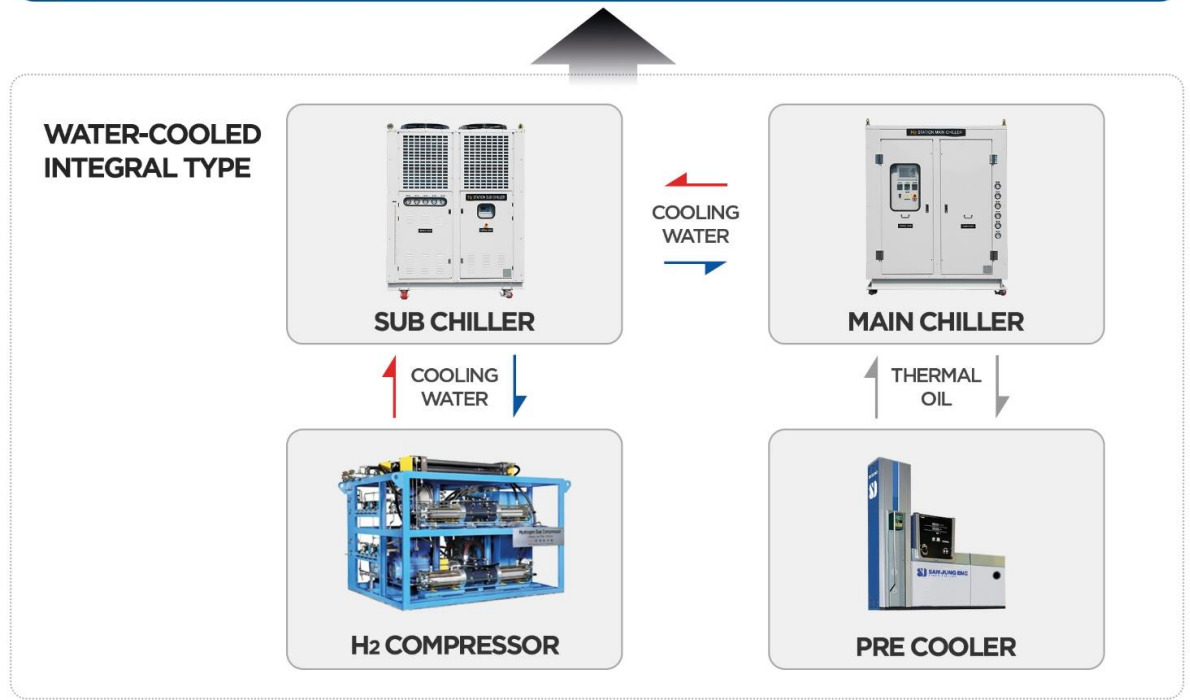
- Explosion proof design
- Space optimized design
- Low cost CHILLER that do not require construction
- Anti vibration design
- Movement optimization
- Simplification of administrative procedures without land use

Chiller Type Selection Method



FEATURES OF SAMJUNG ENC H₂ STATION COOLING SYSTEM

- 1 Rechargeable continuously (based on H₂ NEXO 5kg/3min, H₂ Bus 29kg/15min)
- 2 Quick Cool to reduce cooling time
- 3 Reduction of charging waiting time by installing inverter pump
- 4 Maintain the PRE COOLER temperature for 365 days regardless of outside air temperature or charging temperature.
- 5 Minimize charging heat load shock by applying PUMP individually
- 6 Precise temperature deviation management functioned by maintaining set temperature
- 7 H₂ Installation location in charging station / manufacturing Cooler according to installation area conditions
- 8 Maintenance of Cooler for domestic and foreign hydrogen charging
- 9 Establishment of an emergency service network system for all regions of Korea
- 10 Establish systems for installation and operation in GLOBAL locations



NEXT GENERATION H₂ CHILLER SYSTEM



Supply status of cooling unit for hydrogen filling of SAMJUNG ENC Co., Ltd.



Supply of 90 charging stations nationwide
(as of September 2021)

Metropolitan area (Seoul, Gyeonggido)

- Yeosu Service Area
- Ansan Fueling Station
- Seongnam Fueling Station
- Suwon (Gwanggyo) Service Area
- Pyongtaek Fueling Station
- Maesong Service Area -1
- Gimpo Fueling Station
- Gwangmyeong Fueling Station
- Namyangju Fueling Station
- Guri Topyeong Fueling Station
- Gangseo Bus Fueling Station
- Seoul Magok Fueling Station
- Seocho Bangbae Fueling Station
- Incheon Seogu Fueling Station -2
- Anseong Service Area
- Hwasung Fueling Station
- Hanam Dream Service Area
- Anseong Fueling Station
- Balan Fueling Station
- Maesong Service Area -2
- Ansan Sangrok Fueling Station
- Goyang Wondang Fueling Station
- Suwon Tapdong Fueling Station
- Bucheon City Fueling Station
- Seosomun Service Area
- Seoul Ogok Fueling Station
- Incheon Seogu Fueling Station -1
- Incheon Junggu Fueling Station

Gangwondo

- Chooncheon Fueling Station
- Daegwallyeong Fueling Station
- Wonju Fueling Station

Chungcheongdo (Chungcheongbukdo, Chungcheongnamdo, Daechon)

- Advanced Technology Center(Chungju)
- Naepo Fueling Station
- Eumsong Service Area
- Jugam Fueling Station -2
- Chonan Fueling Station -1
- Choongnam Technopark(Seosan) -1
- Choongnam Technopark(Asan) -1
- Chungju Fueling Station -1
- Daejeon Nangwol Fueling Station -1
- Daejeon Jungchon Fueling Station -1
- Daejeon Fueling Station -1
- Daejeon Fueling Station -3
- Goesan Fueling Station
- Dangjin Fueling Station
- Jugam Fueling Station -1
- Jincheon Fueling Station
- Chonan Fueling Station -2
- Choongnam Technopark(Seosan) -2
- Choongnam Technopark(Asan) -2
- Chungju Fueling Station -2
- Chungju Jeonjugi
- Daejeon Jeonjugi
- Daejeon Jungchon Fueling Station -2
- Daejeon Fueling Station -2
- Sintanjin Fueling Station

Gyeongsangdo

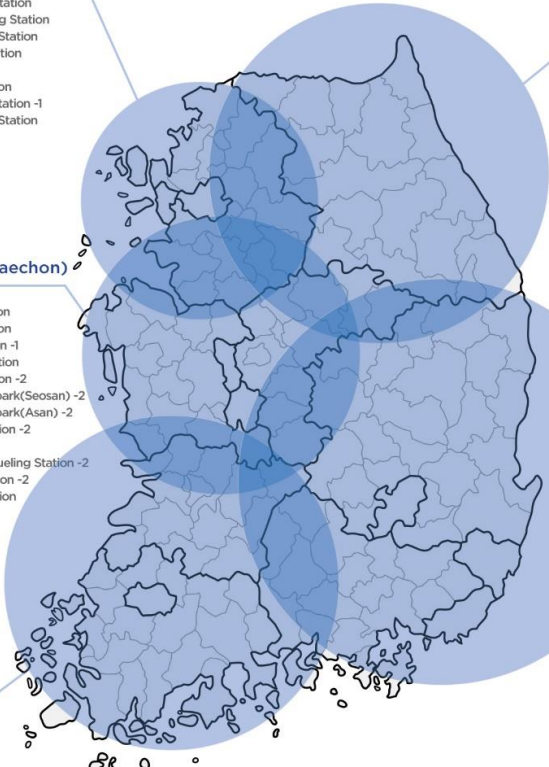
(Gyeongsangbukdo, Gyeongsangnam-do, Daegu)

- East Busan Fueling Station -1
- East Busan Fueling Station -2
- East Busan Fueling Station -3
- West Busan NK Fueling Station
- Yangsan Fueling Station
- Ulsan APK Fueling Station
- Ulsan Maeam-clong Fueling Station
- NEXO LINE-1 Ulsan Hyundai Motors, NEXO LINE -1
- NEXO LINE-2 Ulsan Hyundai Motors, NEXO LINE -2
- Jinju Fueling Station
- Changwon Fueling Station -1
- Changwon Fueling Station -2
- Korea Automotive Technology Institute(Changwon) -1
- Korea Automotive Technology Institute(Changwon) -2
- Korea Automotive Technology Institute(Changwon) -3
- Korea Automotive Technology Institute(Changwon) -4
- Haman Service Area
- Institute of Daegu Intelligent Auto Parts
- Daegu Fueling Station -1
- Daegu Fueling Station -2
- Daegu Fueling Station -3
- Daechon Fueling Station
- Seongju Fueling Station
- Chilgok Fueling Station

Jeollado

(Jeollabukdo, Jeollanamdo)

- Jeonju (Songchon-dong) Fueling Station
- Iksan Fueling Station
- Gunsan Fueling Station
- Buan Fueling Station -1
- Buan Fueling Station -2
- Jeonju Fueling Station -1
- Jeonju Fueling Station -2
- Goheung Fueling Station
- Gwangyang Fueling Station
- Gwangju Fueling Station -1
- Gwangju Fueling Station -2



Ansan Fueling Station



Asan Chosa Fueling Station



Ulsan APK Fueling Station



Seosan Fueling Station



AIR-IN SIDE CHILLER

Air-cooled indoor integral type

It is a product that is widely used in the industrial plants and can be installed easily.

Features of Use

- Air-cooled indoor integral type**
 As an integral type with 1 unit simply, it is designed optimally to be able to adapt the indoor environment.
 In particular, it shows the excellent performance of cooling effect for a variety of industrial equipment in the industrial plants.
- General type**
 general chiller to maintain the temperature variation of output cold water within 1-2 °C
- Precise type**
 precise chiller to maintain the temperature variation of output cold water within 0.3-0.7 °C



Standard specifications

Division/Model	SJ-01A	SJ-02A	SJ-03A	SJ-05A	SJ-075A	SJ-10A	SJ-15A	SJ-20A	SJ-25A	SJ-30A	SJ-40A	
Rated power of compressor (kw)	0.75	1.5	2.2	3.75	5.6	7.5	11.25	15	19	22.5	30	
Pump power (kw)	0.4	0.4	0.75	0.75	1.1	1.5	1.8	2.2	3	3	4	
Discharge rate (t/min)	55	55	80	120	150	200	250	320	400	400	450	
Cooling capacity (kcal/h)	2,800	5,500	8,500	15,000	22,500	30,000	45,000	60,000	75,000	90,000	120,000	
Maximum discharging pressure (bar)	2	2	2	3	3	3	3	4	4	4	4	
Weight (kg)	80	130	180	400	480	600	700	800	900	1,000	1,200	
Tank volume (l)	17	23	33	80	120	160	200	230	300	300	380	
Refrigerant	FREON R-407C											
Total consumption power (kw)	1	2	3	5	7	9.5	14	20	25	28	38	
External size (front)	L	500	500	500	650	650	750	750	850	850	1,050	1,050
	W	850	850	850	1,250	1,250	1,600	1,900	2,200	2,200	3,000	3,000
	H	1,400	1,790	1,790	1,790	1,790	2,000	2,200	2,300	2,300	2,300	2,300

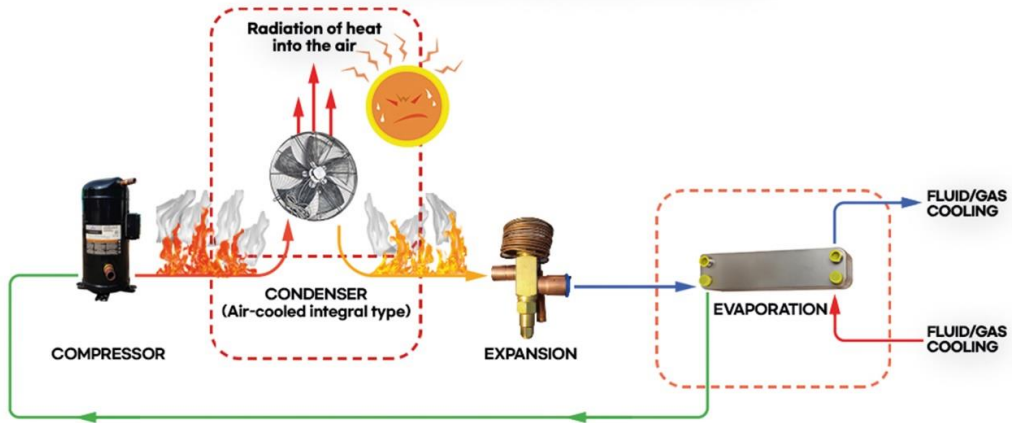
Air-cooled indoor integral



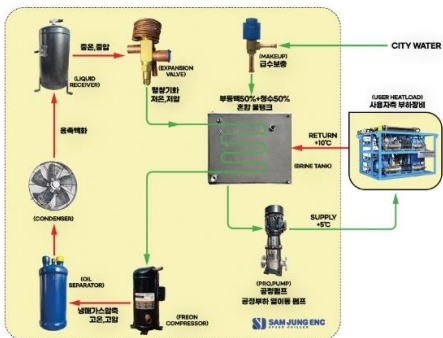
Composition principle

Operational principle of chiller

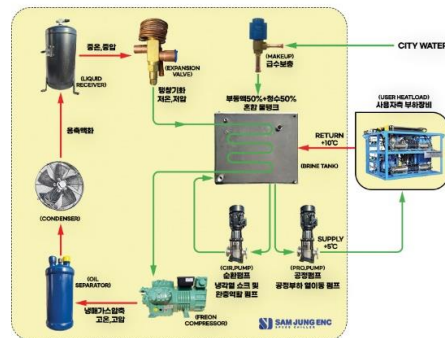
It shows the continuous cooling effect by radiating condensation heat (condenser) that is occurred during the operation of refrigerant cycle using freon gas compressor inside the integral type chiller into the surrounding air and by chilling evaporate to fluid/gas.



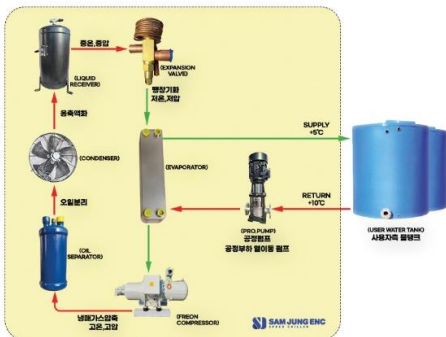
Air-cooled indoor integral type A - Scroll



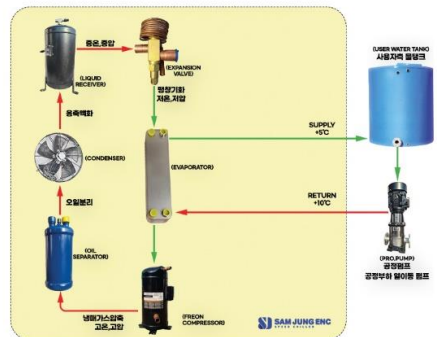
Air-cooled indoor integral type B - Reciprocating



Air-cooled indoor integral type D - Screw



Air-cooled indoor integral type E - Scroll





AIR-OUT SIDE CHILLER

Air-cooled outdoor integral type

It can be widely used in the industrial plants and installed simply in a variety of installation environments such as indoors and outdoors.

Features of Use

- Air-cooled outdoor integral type**
 As an integral type with 1 unit simply, it is designed optimally to be able to adapt multiple installation environments such as indoors and outdoors. In particular, it shows the excellent performance of cooling effect for a variety of industrial equipment in the industrial plants.
- General type**
 general chiller to maintain the temperature variation of output cold water within 1-2 °C
- Precise type**
 precise chiller to maintain the temperature variation of output cold water within 0.3-0.7 °C



Standard specifications

Division/Model	SJ-03A	SJ-05A	SJ-075A	SJ-10A	SJ-15A	SJ-20A	SJ-25A	SJ-30A	SJ-40A	SJ-50A	SJ-60A
Rated power of compressor (kw)	2.2	3.75	5.6	7.5	11.25	15	19	22.5	30	38	45
Pump power (kw)	0.75	0.75	1.1	1.5	1.8	2.2	3	3	4	5.5	7.5
Discharge rate (l/min)	80	120	150	200	250	320	400	400	500	600	700
Cooling capacity (kcal/h)	8,500	15,000	22,500	30,000	45,000	60,000	75,000	90,000	120,000	150,000	180,000
Maximum discharging pressure (bar)	2	3	3	3	3	4	4	4	4	4	4
Weight (kg)	300	400	500	600	700	800	900	1,000	1,100	1,200	1,300
Tank volume (l)	33	80	120	160	200	230	300	300	380	450	550
Refrigerant	FREON R-407C										
Total consumption power (kw)	3	5	7	9.5	14	20	25	28	38	45	55
External size (front)	L	700	700	800	800	1,030	1,030	1,030	1,030	1,040	1,040
	W	1,260	1,260	1,400	1,400	1,630	1,950	1,950	2,800	2,800	3,740
	H	1,900	1,900	1,900	1,900	2,300	2,300	2,300	2,400	2,400	2,400

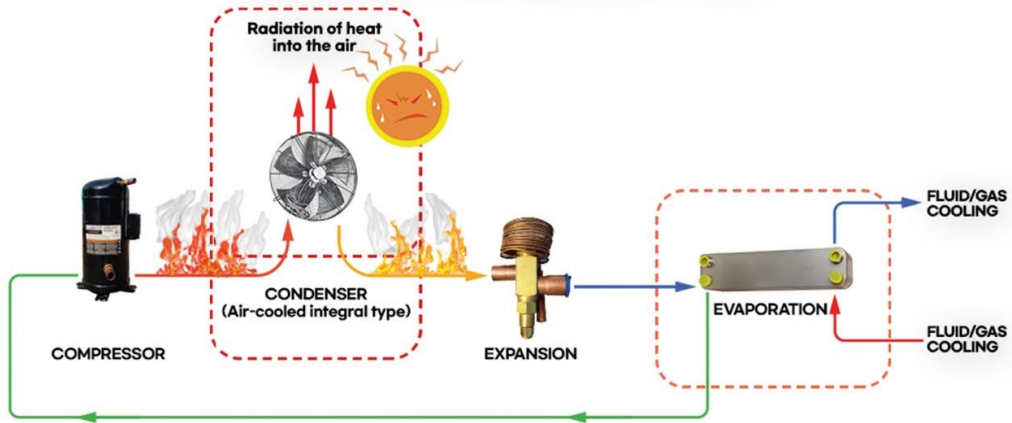
Air-cooled outdoor integral



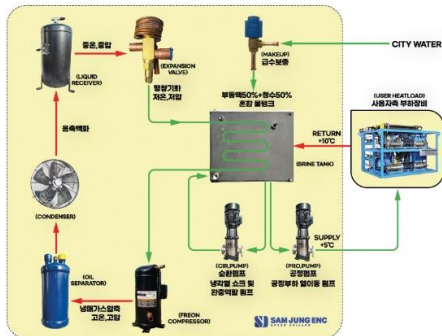
Composition principle

Operational principle of chiller

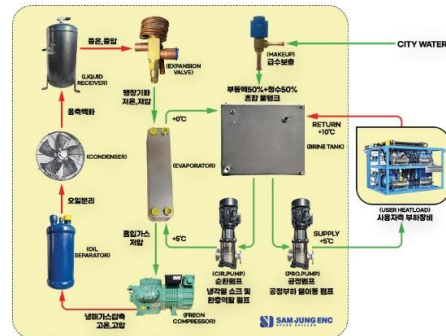
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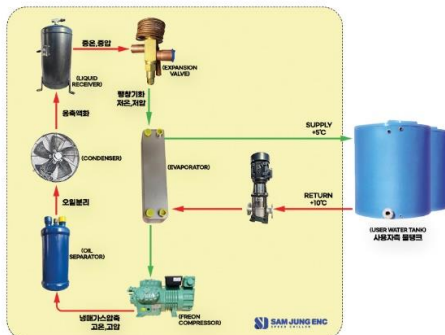
Air-cooled outdoor integral type B - Scroll



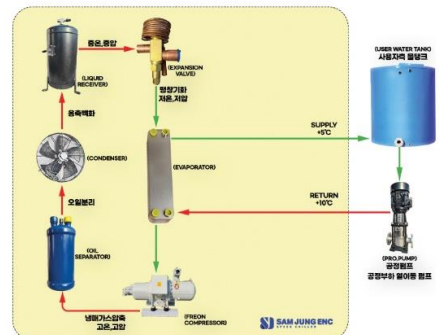
Air-cooled outdoor integral type C - Reciprocating



Air-cooled outdoor integral type D - Reciprocating



Air-cooled outdoor integral type E - Screw





AIR-REMOTE CHILLER

Air-cooled separable type

It can be installed where has the limitation for industrial plants or requires quietness.

Features of Use

- Air-cooled separable type**
 It consists of two independent remotes to be installed both in indoor and outdoor.
- General type**
 general chiller to maintain the temperature variation of output cold water within 1-2 °C
- Precise type**
 precise chiller to maintain the temperature variation of output cold water within 0.3-0.7 °C



Standard specifications

Division/Model	SJ-05AS	SJ-075AS	SJ-10AS	SJ-15AS	SJ-20AS	SJ-25AS	SJ-30AS	SJ-40AS	SJ-50AS	SJ-60AS	SJ-80AS	
Rated power of compressor (kw)	3.75	5.6	7.5	11.25	15	19	22.5	30	38	45	60	
Pump power (kw)	0.75	1.1	1.5	1.8	2.2	3	3	4	5.5	7.5	10	
Discharge rate (t/min)	120	150	200	250	320	320	400	450	600	700	800	
Cooling capacity (kcal/h)	15,000	22,500	30,000	45,000	60,000	75,000	90,000	120,000	150,000	180,000	240,000	
Maximum discharging pressure (bar)	3	3	3	3	3	3	4	4	4	4	4	
Weight (kg)	150	230	350	430	500	600	700	900	1,000	1,100	1,200	
Tank volume (l)	80	120	160	20	230	230	300	380	450	550	650	
Refrigerant	FREON R-407C											
Total consumption power (kw)	5	7	9.5	14	20	25	28	38	45	55	70	
External size (front)	L	650	650	750	750	750	750	850	850	850	1,040	1,040
	W	1,250	1,250	2,000	1,600	1,900	1,900	2,200	2,200	2,200	3,740	3,740
	H	1,790	1,790	2,000	2,000	2,000	2,000	2,100	2,100	2,100	2,400	2,400

Air-cooled separable

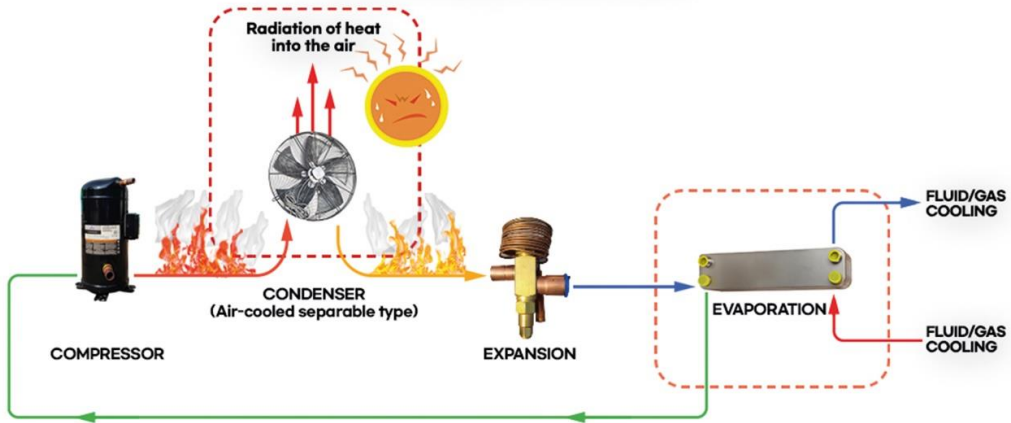


1m

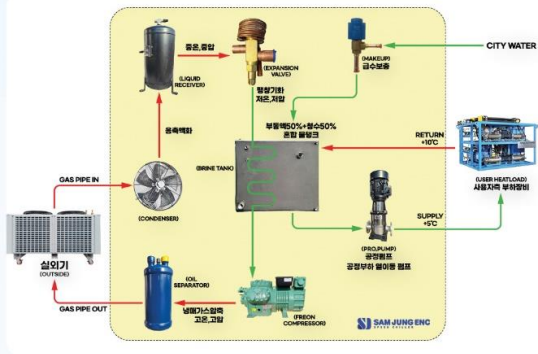
Composition principle

Operational principle of chiller

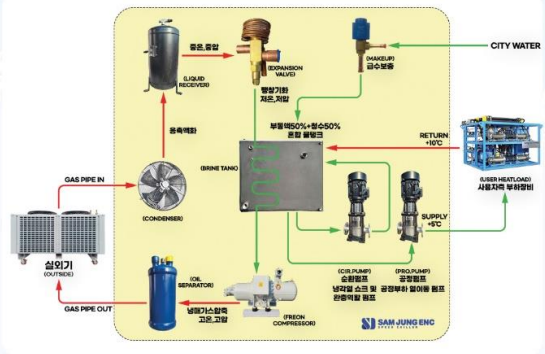
It is a system that can provide continuous cooling effect by radiating condensation heat (condenser) at the remote outdoor unit in to the air so as to perform stable cooling of refrigerant gas and by cooling evaporate to fluid/gas at the remote indoor.



Air-cooled separable type A - Reciprocating



Air-cooled separable type B - Screw



Air-cooled separable type C - Screw



Air-cooled separable type D - Scroll





WATER COOLING CHILLER

Water-cooled integral type

Water-cooled integral type is a product that shows excellent cooling effect stably and efficiently regardless of seasons and air temperature.

Features of Use

- Water-cooled integral type**
 It is a cooling method of condenser using industrial plant cooling tower and industrial water.
- General type**
 general chiller to maintain the temperature variation of output cold water within 1-2 °C
- Precise type**
 precise chiller to maintain the temperature variation of output cold water within 0.3-0.7 °C



Standard specifications

Division/Model	SJ-03W	SJ-05W	SJ-075W	SJ-10W	SJ-15W	SJ-20W	SJ-25W	SJ-30W	SJ-40W	SJ-50W	SJ-60W
Rated power of compressor (kw)	2.2	3.75	5.6	7.5	11.25	15	19	22.5	30	38	45
Pump power (kw)	0.75	0.75	1.1	1.5	1.8	2.2	3	3	4	5.5	7.5
Discharge rate (t/min)	80	120	150	200	250	320	320	400	450	600	700
Cooling capacity (kcal/h)	8,500	15,000	22,500	30,000	45,000	60,000	75,000	90,000	120,000	150,000	180,000
Tank volume (l)	33	80	120	160	200	230	230	300	380	450	550
필요냉각수량 t/min	80	100	150	200	250	300	300	350	400	700	800
Weight (kg)	250	350	500	600	700	800	900	1,000	1,100	1,200	1,300
Refrigerant	FREON R-407C										
Total consumption power (kw)	3	5	7.2	9.5	13.5	17.7	23	26	34.5	45	55
External size (front)	L	500	650	650	650	750	750	750	750	850	850
	W	650	1,250	1,250	1,250	1,600	1,600	1,600	1,900	1,900	2,200
	H	1,790	1,790	1,790	1,790	2,000	2,000	2,000	2,200	2,200	2,300

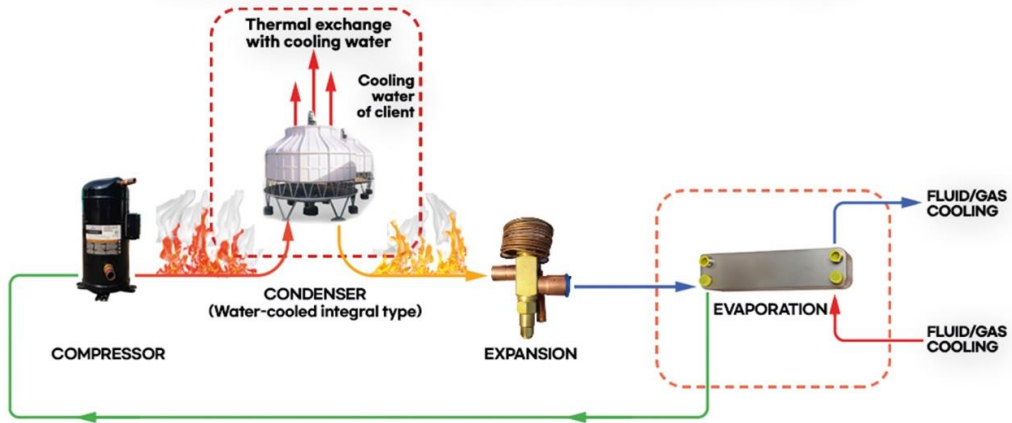
Water-cooled integral



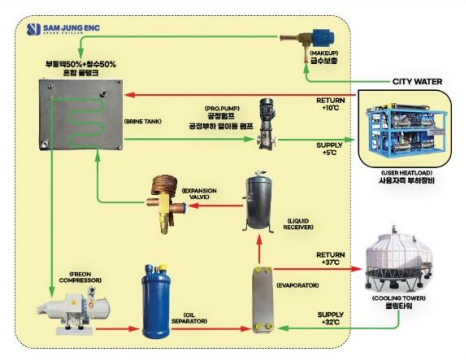
Composition principle

Operational principle of chiller

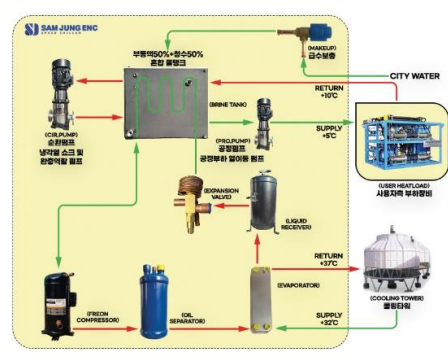
It shows the continuous cooling effect by radiating condensation heat (condenser) that is occurred during the operation of refrigerant cycle using freon gas compressor inside the water-cooled integral type chiller into the surrounding air and by chilling evaporate to fluid/gas.



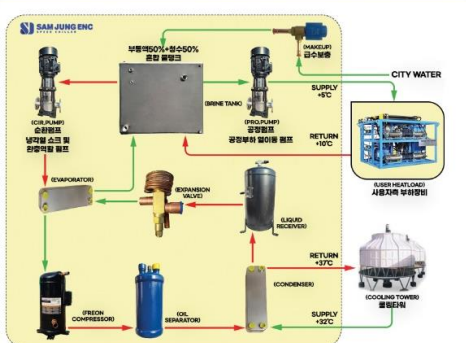
Water-cooled integral type A - Screw



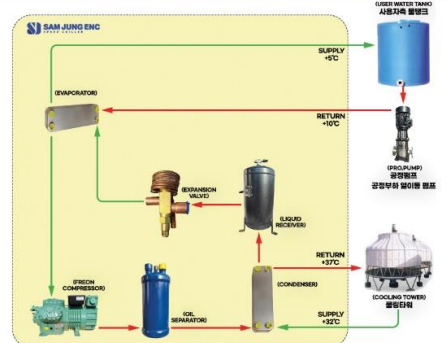
Water-cooled integral type B - Scroll



Water-cooled integral type C - Scroll



Water-cooled integral type E - Reciprocating





SKID CHILLER

SKID chiller

It is an innovative product to cool the cooling system of factory process water part by part in the production process with 1 unit of SKID chiller.

Features of Use

- SKID chiller**
 As a mid-to-large scale cooling system, it is a custom-made product according to the load capacity and installation area of the client.
- General type**
 general chiller to maintain the temperature variation of output cold water within 1-2 °C
- Precise type**
 precise chiller to maintain the temperature variation of output cold water within 0.3-0.7 °C



Standard specifications

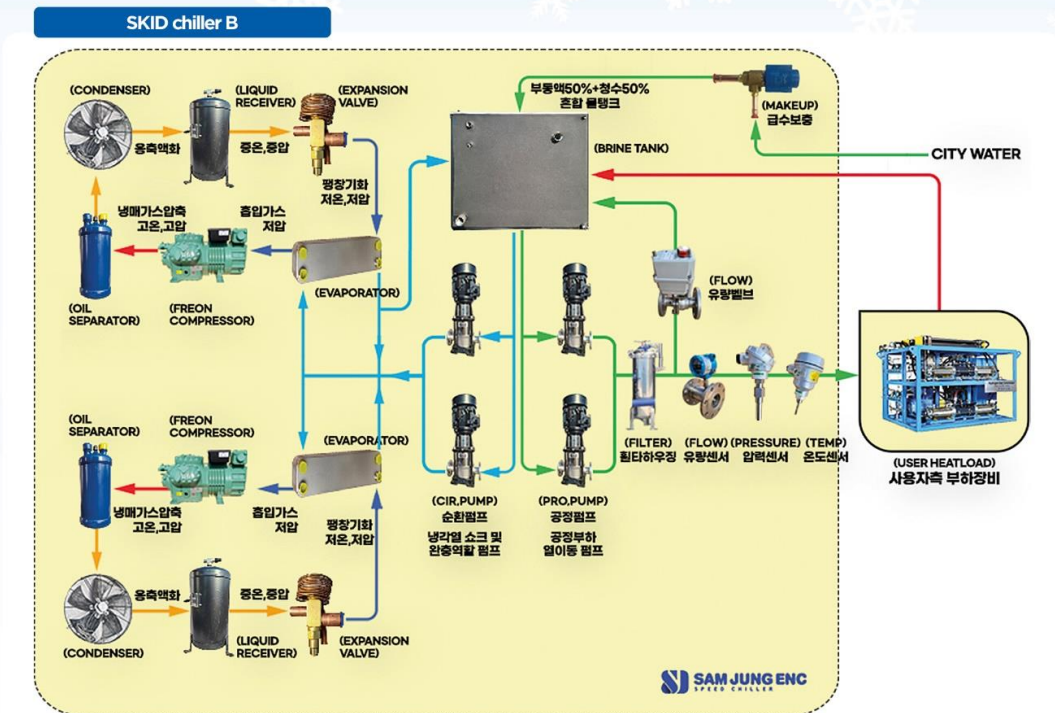
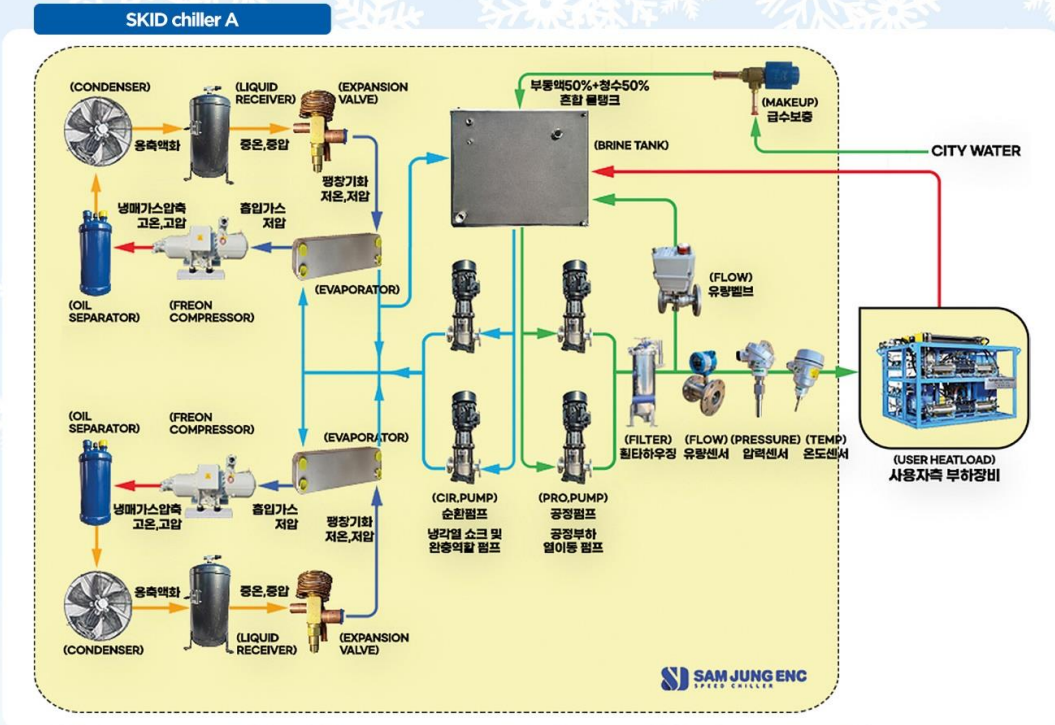
Division/Model	SJ-20A SKID	SJ-30A SKID	SJ-40A SKID	SJ-50A SKID	SJ-60A SKID	SJ-80A SKID	SJ-100A SKID	SJ-120A SKID	SJ-140A SKID	SJ-160 SKID	SJ-200 SKID
Rated power of compressor (kw)	15	22.5	30	38	45	60	75	84	105	120	150
Pump power (kw)	2.2	4	5.5	7.5	7.5	10	11	11	15	15	22
Discharge rate (t/min)	250	350	450	550	700	900	1,100	1,300	1,500	1,700	2,100
Cooling capacity (kcal/h)	60,000	90,000	120,000	150,000	180,000	240,000	300,000	360,000	420,000	480,000	600,000
Maximum discharging pressure (bar)	5	5	5	5	5	5	5	5	5	5	5
Weight (kg)	800	1,000	1,300	1,600	2,000	2,400	3,000	3,300	3,600	4,000	4,500
Tank volume (t)	-	-	-	-	-	-	-	-	-	-	-
Refrigerant	FREON R-407C										
Total consumption power (kw)	20	28	38	50	60	80	100	120	140	160	200
External size (front)	L	1,400	1,400	1,400	1,400	1,400	2,100	2,100	2,100	2,100	2,100
	W	3,200	4,000	4,000	5,000	5,000	5,000	5,000	5,000	6,000	6,000
	H	2,600	2,600	2,600	2,600	2,600	2,600	2,600	2,600	2,600	2,600

SKID chiller



Composition principle

It is a product organized based on 4 cycles of freezing including compression, condensation, expansion, and evaporation and to realize the strong and optimal cooling capacity in variable heat loads, efficient flow distribution, and temperature shock.





SPECIAL CHILLER

Special chiller

As a custom-made product, it provides the best technology, such as high temperature, ultra-precision, and so on, that are required in the industrial plants.

Features of Use

- Low temperature type**
 Low temperature type chiller that maintains the chilling fluid at $-80^{\circ}\text{C} \pm 1^{\circ}\text{C}$.
- General type**
 High temperature type chiller that maintains the chilling fluid at $+250^{\circ}\text{C} \pm 1^{\circ}\text{C}$.
- Precise type**
 A type of chiller that maintains the chilling fluid with temperature variation within $\pm 0.01^{\circ}\text{C} \sim \pm 0.5^{\circ}\text{C}$.



Standard specifications

구분/모델	SJ-01AH	SJ-02AH	SJ-03AH	SJ-05AH	SJ-075AH	SJ-10AH	SJ-15AH	SJ-20AH	SJ-30AH	SJ-40AH	
Rated power of compressor (kw)	0.75	1.5	2.2	3.75	5.6	7.5	11.25	15	22.5	30	
Pump power (kw)	0.4	0.4	0.75	0.75	1.1	1.5	1.8	2.2	3	4	
Discharge rate (t/min)	55	55	80	120	150	200	250	320	400	450	
Cooling capacity (kcal/h)	2,800	5,500	8,500	15,000	22,500	30,000	45,000	60,000	90,000	120,000	
Maximum discharging pressure (bar)	5	5	5	5	5	5	5	5	5	5	
Weight (kg)	120	150	200	400	480	600	700	800	1,000	1,200	
Tank volume (l)	17	23	33	80	120	160	200	230	300	380	
Refrigerant	FREON R-407C										
Total consumption power (kw)	5	10	15	20	30	40	50	60	70	80	
External size (front)	L	500	500	500	650	650	750	750	850	1,050	1,050
	W	850	850	850	1,250	1,250	1,600	1,900	2,200	3,000	3,000
	H	1,400	1,790	1,790	1,790	1,790	2,000	2,200	2,300	2,300	2,300

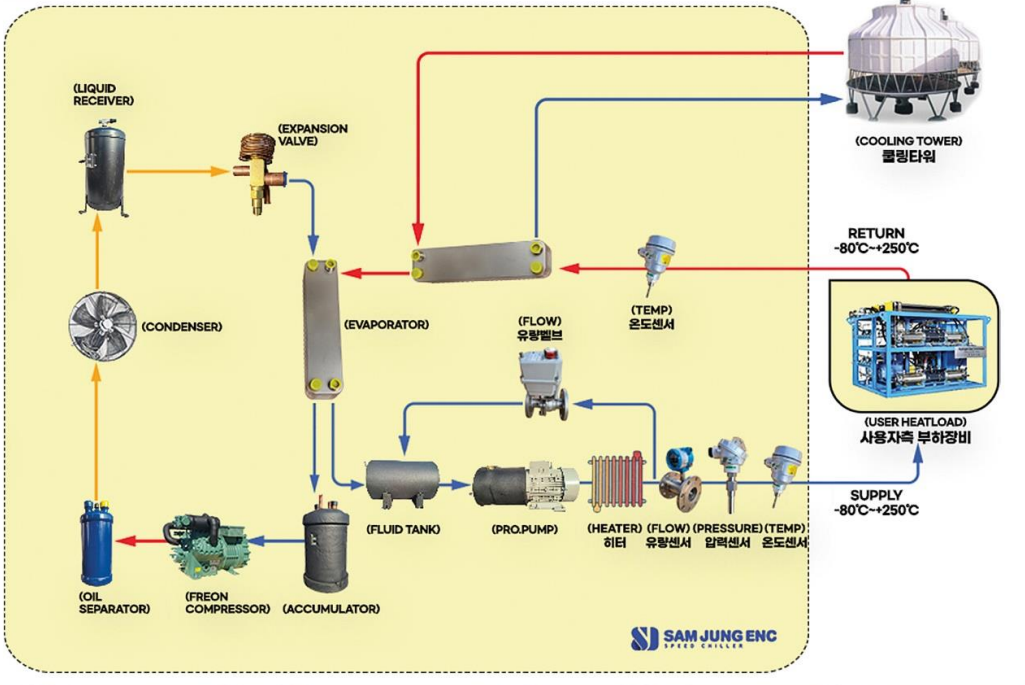
Special chiller



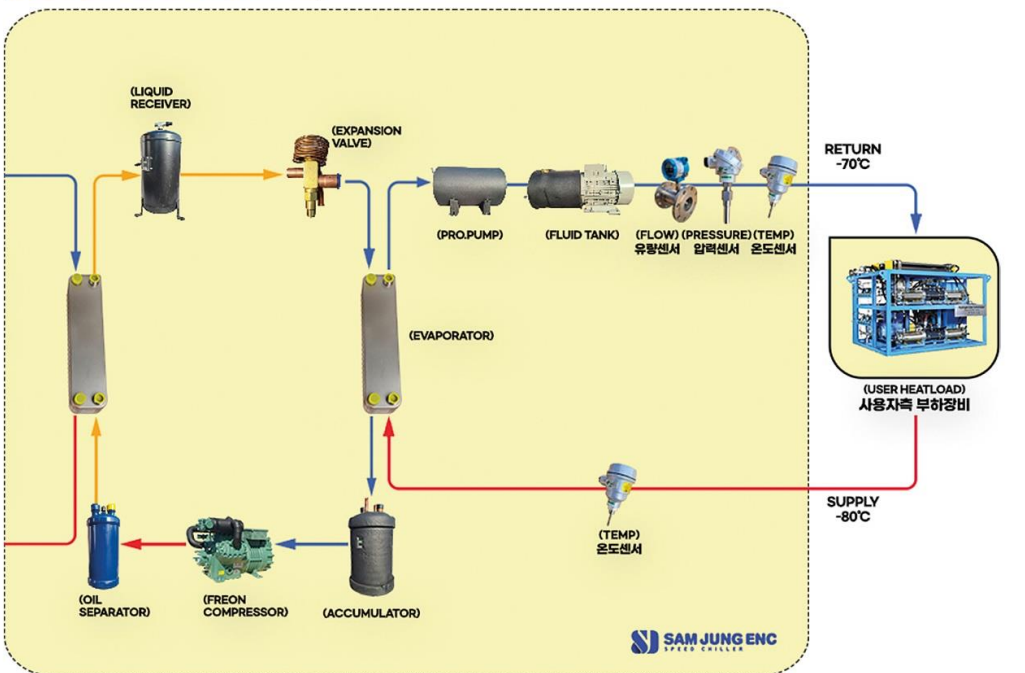
Composition principle

As a custom-made product, it provides the best technology, such as high temperature, ultra-precision, and so on, that are required in the industrial plants.

Special chiller for low and high temperature



Special chiller for low temperature



H₂ STORY



27th anniversary photo



Performance Testing



Institute of Technology



H₂ CHILLER TEST Performance Room



Waiting for delivery



SAMJUNG ENC Panorama



The company, developing along with customers

We play a key role to develop domestic industry and to improve the productivity of your company by satisfying various specifications for all kinds of industrial equipments required by information oriented and digital industry in this rapidly changing twenty-first century, domestically producing various freezing equipments, that were mostly depend on import, with our own technique, and improving them as the best products group.



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