

아 림 공 조



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+green air    +green wind  +green water
+green people +green house  +green earth
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A large industrial water pump assembly. It features a grey metal cabinet on the right side with a digital display and control panel. The pump itself is made of white and grey metal components, including a large horizontal cylindrical body and a vertical discharge pipe. Various pipes, valves, and electrical connections are visible. The unit is mounted on a metal base.





+green life +green wind +green food
+green air +green house +green water
+green people +green peace +green earth

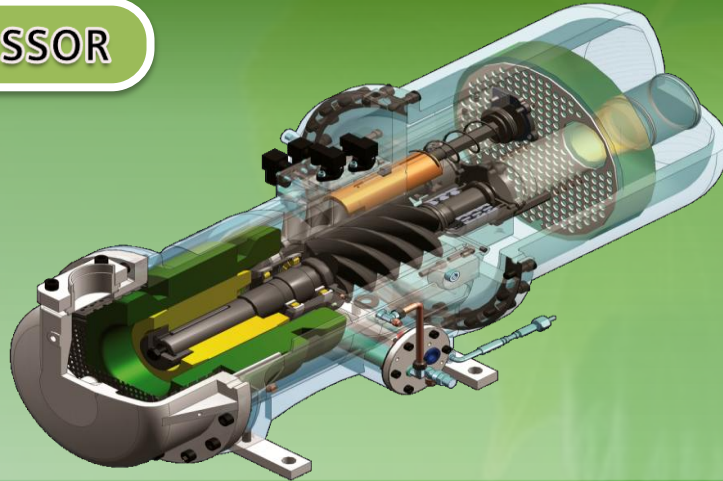
모든 맑은 공기와 자연속 시원한 물이 푸르름으로부터 나오듯,
이 세상 모든 건물의 맑고 시원함은 아림으로부터 나왔으면 좋겠습니다.

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The diagram illustrates the components of a chiller model number. It shows a sequence of letters and numbers (S, A, 100, T, 2) with arrows pointing to their respective meanings:

- S**: Compressor No. (1,2,3,4,5)
- A**: Supply Water (Brine) Temperature (H :25°C~15°C , T : 15°C~5°C , L:5°C~-15°C , Z: -15°C~-30°C)
- 100**: Capacity
- T**: Refrigerant type (Air cooled chiller (A : R-22 , D : R134A , M : R407C), Air cooled chiller split (S : R-22 , E : R134A , N : R407C), Water cooled chiller (W : R-22 , B : R134A , J : R407C))
- 2**: Compressor type (S : SCREW , C : RECIPROCATING , R : SCROLL)

SCREW COMPRESSOR



High EER, Low Energy Consumption

The newly designed, asymmetrical rotor profile, which has five lobes and six flutes in male and female rotors respectively results in a low pressure differential between flutes. This design provides high volumetric efficiency as well as low power consumption.

Low Noise Level, Low Vibration

Rotors are precisely milled and dynamically balanced. Supported by high precision bearings, the rotors run smoothly and with little vibration.

Precise Capacity Control System

The standard four-step capacity control system as well as the optional linear capacity control system provides operations under variable loading condition with minimum power consumption.

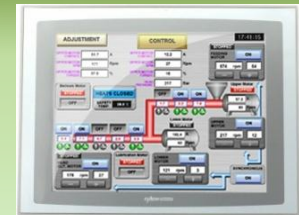
Ease of Maintenance

The semi-hermetic design and the low number of components used significantly reduce the maintenance requirements. In addition, the semi-hermetic design needs no shaft seals, thus eliminating the chance of refrigerant leakage. The detachable motor construction makes quick servicing possible.

Wide Application Range

The compressors can be widely used in water and air cooled air-conditioning systems, thermal storage system, heat pumps or industrial processes if external oil coolers, economizers or liquid refrigerant injection devices are equipped.

PLC CONTROLLER



PLC Controller & Touch Display

The controller developed based on abundant design experience of our company for chillers realized diversity and dream for perfect control of chillers.

Minute controls needed for safety devices and screw chillers are possible, and optimal operation is achieved by recognizing the conditions. It also has great compatibility with various communications from central monitoring control.

■ ■ 수냉식 스크류 칠러 냉동기 (WATER COOLED SCREW CHILLER UNIT) W-SERIES

- 연속 용량조절로 인한 에너지절감
- 풍부한 기술과 경험에 기초한 신뢰성
- 응축기의 성능을 향상시켜 고온의 조건에도 안정적으로 운전됨
- 응축기 및 증발기는 당사의 엄격한 설계프로그램을 의거하여 상호 최상의 열적평형을 이루도록 설계하였습니다.
- 생산설비, 공조설비, 대형건물 및 각종산업시설에 다양한 용도로 사용됩니다.

- Energy reduction with continued capacity control
- Trustability from technology and experience
- Stable operation under high temperature with improved performance of the compressor
- The compressor and evaporator were designed according to a strict design program to achieve optimal thermal equilibrium.
- The product is used for various purposes in production, air conditioning and industrial facilities.



SW - MULTI UNIT



SW - SINGLE UNIT

> 기능

- 사계절 사용가능 - 액분사시스템장착
- 냉수온도 $-20^{\circ}\text{C} \sim 15^{\circ}\text{C}$ 적용
- 냉각수온도감시 : 냉각탑FAN제어 가능
- 표준사용수압 0.8 MPa
- 각종 안전장치 장착
- 소비전력에 따른 피크관리 제어 가능
(주문시 협의요망)

- Used four-seasons - With Liquid injection system
- Chilled Water(Brine) Temp Range : $-20^{\circ}\text{C} \sim 15^{\circ}\text{C}$
- Cooling Water Temp check
- With Cooling Tower Fan control system
- Maximum operation Water pressure : 0.8 MPa
- With safety devices
- This product can Power input control
(Option)

Standard Specifications

Refrigerant R-22

Evaporator Temp 2°C (Chilled Water In/Out Temp 12 / 7°C)

Condenser Temp 42°C (Cooling Water In/Out Temp 32/37°C)

R-22 SPEC SINGLE SERISE (60Hz)

MODEL		SW	SW	SW	SW	SW	SW	SW	SW	SW	SW	SW	SW	SW	SW	SW
SECTION		30T1	40T1	50T1	60T1	80T1	90T1	100T1	120T1	130T1	140T1	170T1	190T1	210T1	240T1	270T1
용 량	USRT	33.7	38.2	48.7	61.8	77.2	90.9	98.6	117.7	134.1	143.9	169.5	188.5	217.0	236.8	267.4
	kW	118.5	134.4	171.3	217.5	271.4	319.8	346.8	413.8	471.5	505.8	595.9	662.8	763.1	832.8	940.4
소비 전력	kW	31.7	35.7	45.0	55.7	68.3	79.8	85.9	102.4	116.2	124.1	143.5	159.0	182.0	197.8	221.9
성능 계수	-	3.7	3.8	3.8	3.9	4.0	4.0	4.0	4.0	4.1	4.1	4.2	4.2	4.2	4.2	4.2
운전전류(RLA)	220V (A)	99.2	111.6	140.5	174.1	213.5	249.4	268.5	319.9	-	-	-	-	-	-	-
	380V (A)	57.4	64.6	81.3	100.8	123.6	144.4	155.4	185.2	210.1	224.5	259.6	287.6	329.3	357.9	401.3
	440V (A)	49.6	55.8	70.2	87.1	106.8	124.7	134.2	160.0	181.5	193.9	224.2	248.4	284.4	309.1	346.6
압축기 수	C/S	1 C/S														
용량 제어	%	0 , 25% ~ 100% (STEP& STEPLESS)														
냉각수 유량	m³/hr	28.7	32.5	41.3	52.2	64.9	76.4	82.7	98.7	112.3	120.4	141.3	157.1	180.6	197.0	222.1
냉각수 손실수두	mAq	3.2	3.2	3.2	3.2	4.0	4.0	4.6	4.6	5.4	3.9	4.0	4.0	4.3	4.7	4.6
냉수 유량	m³/hr	20.4	23.1	29.5	37.4	46.7	55.0	59.6	71.2	81.1	87.0	102.5	114.0	131.3	143.2	161.7
냉수 손실수두	mAq	3.0	3.2	3.4	3.8	3.8	4.2	4.1	4.3	4.7	4.4	4.9	4.9	5.0	5.0	5.4
냉각수 배관	A	65	80	80	100	100	100	125	125	125	125	150	150	150	150	200
냉수 배관	A	80	80	100	100	100	100	125	125	125	125	125	150	150	150	150
안전변 배관	A	-	-	32	32	32	40	40	40	40	40	50	50	50	50	65
외형치수	길이	mm	2,089	2,089	2,089	2,276	2,302	2,307	2,553	2,556	2,556	3,010	3,010	3,010	3,345	3,679
	폭	mm	1,135	1,135	1,155	1,205	1,270	1,312	1,395	1,455	1,455	1,455	1,525	1,585	1,655	1,655
	높이	mm	1,347	1,347	1,347	1,347	1,537	1,567	1,652	1,692	1,692	1,692	1,795	1,795	1,990	1,990
제 품 중 량	kg	1,110	1,160	1,290	1,540	1,790	1,900	2,170	2,340	2,450	2,600	2,830	3,200	3,730	3,930	4,060
운 전 중 량	kg	1,270	1,310	1,490	1,750	2,090	2,200	2,520	2,760	2,870	3,090	3,330	3,820	4,410	4,690	4,820

R-22 SPEC SINGLE SERISE (50Hz)

MODEL		SW	SW	SW	SW	SW	SW	SW	SW	SW	SW	SW	SW	SW	SW	SW
SECTION		30T1	40T1	50T1	60T1	80T1	90T1	100T1	120T1	130T1	140T1	170T1	190T1	210T1	240T1	270T1
CAPACITY	USRT	28.1	31.9	40.6	51.5	64.3	75.8	82.2	98.1	111.7	119.9	141.2	157.1	180.9	197.4	222.9
	kW	98.7	112.0	142.7	181.2	226.2	266.5	289.0	344.8	392.9	421.5	496.6	552.4	635.9	694.0	783.7
POWER INPUT	kW	26.5	29.8	37.5	46.4	57.0	66.5	71.6	85.3	96.8	103.4	119.6	132.5	151.7	164.9	184.9
COP	-	3.7	3.8	3.8	3.9	4.0	4.0	4.0	4.0	4.1	4.1	4.2	4.2	4.2	4.2	4.2
CURRENT (RLA)	380V (A)	47.8	53.8	67.8	84.0	103.0	120.3	129.5	154.3	175.1	187.1	216.3	239.7	274.4	298.2	334.4
	400V (A)	45.5	51.2	64.4	79.8	97.9	114.3	123.1	146.6	166.3	177.7	205.5	227.7	260.7	283.3	317.7
	415V (A)	43.8	49.3	62.1	76.9	94.3	110.2	118.6	141.3	160.3	171.3	198.1	219.5	251.3	273.1	306.2
COMP NO	C/S	1 C/S														
CAPACITY CONTROL	%	0 , 25% ~ 100% (STEP& STEPLESS)														
COW FLOW RATE	m³/hr	23.9	27.1	34.4	43.5	54.1	63.6	68.9	82.2	93.6	100.3	117.8	130.9	150.5	164.1	185.1
COW PRESS.DROP	mAq	3.2	3.2	3.2	3.2	4.0	4.0	4.6	4.6	5.4	3.9	4.0	4.0	4.3	4.7	4.6
CHW FLOW RATE	m³/hr	17.0	19.3	24.6	31.2	38.9	45.8	49.7	59.3	67.6	72.5	85.4	95.0	109.4	119.4	134.8
CHW PRESS.DROP	mAq	3.0	3.2	3.4	3.8	3.8	4.2	4.1	4.3	4.7	4.4	4.9	4.9	5.0	5.0	5.4
COW PIPE	A	65	80	80	100	100	100	125	125	125	125	150	150	150	150	200
CHW PIPE	A	80	80	100	100	100	100	125	125	125	125	125	150	150	150	150
SAFETY LINE	A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SIZE	LENGTH	mm	2,089	2,089	2,089	2,276	2,302	2,307	2,553	2,556	2,556	3,010	3,010	3,010	3,345	3,679
	WIDTH	mm	1,135	1,135	1,155	1,205	1,270	1,312	1,395	1,455	1,455	1,455	1,525	1,585	1,655	1,655
	HEIGHT	mm	1,347	1,347	1,347	1,347	1,537	1,567	1,652	1,692	1,692	1,692	1,795	1,795	1,990	1,990
WEIGHT	kg	1,110	1,160	1,290	1,540	1,790	1,900	2,170	2,340	2,450	2,600	2,830	3,200	3,730	3,930	4,060
RUNNING WEIGHT	kg	1,270	1,310	1,490	1,750	2,090	2,200	2,520	2,760	2,870	3,090	3,330	3,820	4,410	4,690	4,820

Standard Specifications

Refrigerant R-22

Evaporator Temp 2°C (Chilled Water In/Out Temp 12 / 7°C)

Condenser Temp 42°C (Cooling Water In/Out Temp 32/37°C)

R-22 SPEC SINGLE SERISE (60Hz)

MODEL			SW	SW	SW	SW	SW	SW	SW	SW	SW	SW	SW	SW	SW	SW	
SECTION			60T2	80T2	100T2	120T2	160T2	180T2	200T2	240T2	280T2	340T2	380T2	420T2	480T2	540T2	600T2
용 량	USRT	67.4	76.5	97.4	123.7	154.4	181.9	197.2	235.4	287.7	338.9	377.0	434.0	473.7	534.9	590.2	
	kW	236.9	268.9	342.6	435.0	542.8	639.6	693.5	827.6	1012	1192	1326	1526	1666	1881	2075	
소비 전력	kW	63.5	71.4	89.9	111.5	136.7	159.6	171.9	204.8	248.2	287.1	318.0	364.1	395.7	443.8	486.4	
성능 계수	-	3.7	3.8	3.8	3.9	4.0	4.0	4.0	4.0	4.1	4.2	4.2	4.2	4.2	4.2	4.3	
운전전류(RLA)	220V (A)	198.3	223.2	281.0	348.2	427.0	498.8	537.0	639.8	-	-	-	-	-	-	-	
	380V (A)	114.8	129.2	162.7	201.6	247.2	288.8	310.9	370.4	449.0	519.2	575.2	658.5	715.7	802.7	879.7	
	440V (A)	99.2	111.6	140.5	174.1	213.5	249.4	268.5	319.9	387.7	448.4	496.8	568.7	618.1	693.2	759.8	
압축기 수	C/S	2 C/S															
용량 제어	%	0 , 13% ~ 100% (STEP& STEPLESS)															
냉각수 유량	m³/hr	57.4	65.0	82.7	104.4	129.9	152.7	165.4	197.3	240.8	282.6	314.1	361.3	393.9	444.2	489.6	
냉각수 손실수두	mAq	4.5	4.5	4.5	6.4	3.7	4.5	4.5	4.5	4.7	4.8	4.8	5.6	5.7	6.0	6.2	
냉수 유량	m³/hr	40.8	46.2	58.9	74.8	93.4	110.0	119.3	142.3	174.0	205.0	228.0	262.5	286.5	323.5	357.0	
냉수 손실수두	mAq	4.2	4.2	4.5	4.9	4.0	4.4	4.4	4.6	5.1	5.3	5.4	5.4	5.7	5.9	5.9	
냉각수 배관	A	100	100	125	125	125	150	150	150	200	200	200	250	250	250	250	
냉수 배관	A	100	100	125	125	125	125	150	150	150	200	200	200	250	250	250	
안전변 배관	A	-	-	32*2	32*2	32*2	40*2	40*2	40*2	40*2	50*2	50*2	50*2	50*2	65*2	65*2	
외형치수	길이	mm	2,982	2,982	3,002	3,394	3,600	3,600	4,044	4,044	4,315	4,700	4,700	5,130	5,130	5,615	6,015
	폭	mm	1,233	1,233	1,308	1,308	1,435	1,435	1,465	1,593	1,593	1,602	1,725	1,780	1,780	1,780	1,850
	높이	mm	1,427	1,427	1,487	1,512	1,622	1,622	1,685	1,770	1,770	1,820	1,860	2,070	2,070	2,070	2,070
제 품 중 량	kg	2,250	2,370	2,550	2,980	3,310	3,490	3,880	4,460	4,910	5,370	5,960	6,990	7,180	7,680	7,980	
운 전 중 량	kg	2,600	2,700	2,960	3,430	3,890	4,080	4,540	5,250	5,750	6,310	7,100	8,380	8,580	9,210	9,720	

R-22 SPEC MULTY SERISE (50Hz)

MODEL		SW	SW	SW	SW	SW	SW	SW	SW	SW	SW	SW	SW	SW	SW	SW	
SECTION		60T2	80T2	100T2	120T2	160T2	180T2	200T2	240T2	280T2	340T2	380T2	420T2	480T2	540T2	600T2	
CAPACITY	USRT	56.2	63.7	81.2	103.1	128.6	151.6	164.4	196.1	239.8	282.4	314.2	361.7	394.7	445.7	491.9	
	kW	197.4	224.1	285.5	362.5	452.4	533.0	577.9	689.7	843.1	993.1	1105	1272	1388	1567	1730	
POWER INPUT	kW	52.9	59.5	74.9	92.9	113.9	133.0	143.2	170.7	206.8	239.2	265.0	303.4	329.7	369.8	405.3	
COP	-	3.7	3.8	3.8	3.9	4.0	4.0	4.0	4.0	4.1	4.2	4.2	4.2	4.2	4.2	4.3	
CURRENT (RLA)	380V (A)	95.7	107.7	135.6	168.0	206.0	240.6	259.1	308.7	374.1	432.7	479.3	548.8	596.4	668.9	733.1	
	400V (A)	90.9	102.3	128.8	159.6	195.7	228.6	246.1	293.3	355.4	411.1	455.4	521.3	566.6	635.4	696.4	
	415V (A)	87.6	98.6	124.1	153.8	188.6	220.3	237.2	282.7	342.6	396.2	438.9	502.5	546.1	612.5	671.3	
COMP NO	C/S	2 C/S															
CAPACITY CONTROL	%	0 , 13% ~ 100% (STEP& STEPLESS)															
COW FLOW RATE	m³/hr	47.8	54.2	68.9	87.0	108.2	127.3	137.8	164.4	200.6	235.5	261.8	301.0	328.3	370.2	408.0	
COW PRESS.DROP	mAq	4.5	4.5	4.5	6.4	3.7	4.5	4.5	4.5	4.7	4.8	4.8	5.6	5.7	6.0	6.2	
CHW FLOW RATE	m³/hr	34.0	38.5	49.1	62.3	77.8	91.7	99.4	118.6	145.0	170.8	190.0	218.8	238.7	269.6	297.5	
CHW PRESS.DROP	mAq	4.2	4.2	4.5	4.9	4.0	4.4	4.4	4.6	5.1	5.3	5.4	5.4	5.7	5.9	5.9	
COW PIPE	A	100	100	125	125	125	150	150	150	200	200	200	250	250	250	250	
CHW PIPE	A	100	100	125	125	125	125	150	150	150	200	200	200	250	250	250	
SAFETY LINE	A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
SIZE	LENGTH	mm	2,982	2,982	3,002	3,394	3,600	3,600	4,044	4,044	4,315	4,700	4,700	5,130	5,130	5,615	6,015
	WIDTH	mm	1,233	1,233	1,308	1,308	1,435	1,435	1,465	1,593	1,593	1,602	1,725	1,780	1,780	1,780	1,850
	HEIGHT	mm	1,427	1,427	1,487	1,512	1,622	1,622	1,685	1,770	1,770	1,820	1,860	2,070	2,070	2,070	2,070
WEIGHT	kg	2,250	2,370	2,550	2,980	3,310	3,490	3,880	4,460	4,910	5,370	5,960	6,990	7,180	7,680	7,980	
RUNNING WEIGHT	kg	2,600	2,700	2,960	3,430	3,890	4,080	4,540	5,250	5,750	6,310	7,100	8,380	8,580	9,210	9,720	

Standard Specifications

Refrigerant R-22

Evaporator Temp 2°C (Chilled Water In/Out Temp 12 / 7°C)
Condenser Temp 42°C (Cooling Water In/Out Temp 32/37°C)

R-22 SPEC MULTY SERISE (60Hz)

MODEL		SW	SW	SW	SW	SW	SW	SW	SW	SW	SW	SW	SW	SW	SW	SW
SECTION		120T3	150T3	180T3	300T3	360T3	160T4	200T4	240T4	320T4	360T4	400T4	480T4	560T4	680T4	760T4
용 량	USRT	114.7	146.1	185.5	295.9	402.2	152.9	194.9	247.4	308.8	363.8	394.5	536.3	575.4	677.8	754.0
	kW	403.3	513.9	652.4	1040	1414	538	685	870	1086	1279	1387	1886	2023	2383	2651
소비 전력	kW	107.2	134.9	167.2	257.8	348.5	142.9	179.9	222.9	273.4	319.3	343.7	464.6	496.4	574.1	636.0
성능 계수	-	3.8	3.8	3.9	4.0	4.1	3.8	3.8	3.9	4.0	4.0	4.0	4.1	4.1	4.2	4.2
운전전류(RLA)	220V (A)	334.8	421.4	522.3	805.4	1089	446.4	561.9	696.4	854.1	997.6	1074	1452	-	-	-
	380V (A)	193.9	244.0	302.4	466.3	630.3	258.5	325.3	403.2	494.5	577.5	621.7	840.4	897.9	1038	1150
	440V (A)	167.4	210.7	261.2	402.7	544.4	223.2	281.0	348.2	427.0	498.8	537.0	725.8	775.5	897	994
압축기 수	C/S	3 C/S					4 C/S									
용량 제어	%	0 , 9% ~ 100% (STEP& STEPLESS)					0 , 7% ~ 100% (STEP& STEPLESS)									
냉각수 유량	m³/hr	97.6	124.0	156.6	248.1	336.9	130.1	165.3	208.8	259.7	305.5	330.8	449.2	481.6	565.2	628.3
냉각수 손실수두	mAq	4.2	4.2	4.8	5.1	5.1	4.8	4.8	4.9	4.9	5.6	6.3	6.2	6.3	7.8	7.8
냉수 유량	m³/hr	69.4	88.4	112.2	178.9	243.3	92.5	117.8	149.6	186.7	220.0	238.6	324.4	348.0	410.0	456.0
냉수 손실수두	mAq	4.7	4.8	5.3	5.6	5.6	4.2	4.6	4.8	4.7	5.2	5.1	5.9	5.8	5.9	6.3
냉각수 배관	A	125	125	150	200	200	150	150	150	200	200	250	250	250	300	300
냉수 배관	A	125	125	125	200	200	150	150	150	200	200	200	250	250	250	250
안전변 배관	A	-	32*3	32*3	40*3	40*3	-	32*4	32*4	32*4	40*4	40*4	40*4	40*4	50*4	50*4
외형치수	길이	mm	3,486	3,486	3,912	4,848	5,065	4,177	4,177	4,227	4,522	5,622	5,622	5,644	5,644	6,644
	폭	mm	1,366	1,366	1,366	1,731	1,761	1,690	1,690	1,794	2,084	2,134	2,170	2,190	2,192	2,242
	높이	mm	1,750	1,750	1,750	1,917	1,947	1,915	1,915	1,915	1,770	1,770	1,770	1,770	1,788	1,870
제 품 중 량	kg	3,610	3,710	4,310	5,960	6,590	4,650	4,910	5,630	6,510	6,780	7,680	8,820	9,240	10,180	10,900
운 전 중 량	kg	4,110	4,220	4,900	7,010	7,760	5,250	5,650	6,450	7,680	7,950	9,040	10,430	11,040	12,360	13,100

R-22 SPEC MULTY SERISE (50Hz)

MODEL		SW	SW	SW	SW	SW	SW	SW	SW	SW	SW	SW	SW	SW	SW	SW
SECTION		120T3	150T3	180T3	300T3	360T3	160T4	200T4	240T4	320T4	360T4	400T4	480T4	560T4	680T4	760T4
CAPACITY	USRT	95.6	121.8	154.6	246.5	335.2	127.4	162.4	206.2	257.3	303.2	328.7	446.9	479.5	564.9	628.4
	kW	336.1	428.2	543.7	866.9	1178.6	448.1	571.0	724.9	904.7	1066	1156	1572	1686	1986	2209
POWER INPUT	kW	89.3	112.4	139.3	214.8	290.4	119.1	149.9	185.8	227.8	266.1	286.4	387.2	413.7	478.4	530.0
COP	-	3.8	3.8	3.9	4.0	4.1	3.8	3.8	3.9	4.0	4.0	4.0	4.1	4.1	4.2	4.2
CURRENT (RLA)	380V (A)	161.5	203.3	252.0	388.6	525.3	215.4	271.1	336.0	412.0	481.3	518.1	700.4	748.3	865.4	958.7
	400V (A)	153.5	193.2	239.4	369.2	499.0	204.6	257.5	319.2	391.4	457.2	492.2	665.3	710.8	822.1	910.7
	415V (A)	147.9	186.2	230.7	355.8	481.0	197.2	248.2	307.7	377.3	440.7	474.4	641.3	685.2	792.4	877.8
COMP NO	C/S	3 C/S					4 C/S									
CAPACITY CONTROL	%	0 , 9% ~ 100% (STEP& STEPLESS)					0 , 7% ~ 100% (STEP& STEPLESS)									
COW FLOW RATE	m³/hr	81.3	103.3	130.5	206.7	280.7	108.4	137.8	174.0	216.4	254.6	275.6	374.3	401.3	471.0	523.5
COW PRESS.DROP	mAq	4.2	4.2	4.8	5.1	5.1	4.8	4.8	4.9	4.9	5.6	6.3	6.2	6.3	7.8	7.8
CHW FLOW RATE	m³/hr	57.8	73.7	93.5	149.1	202.7	77.1	98.2	124.7	155.6	183.4	198.8	270.3	290.0	341.6	380.0
CHW PRESS.DROP	mAq	4.7	4.8	5.3	5.6	5.6	4.2	4.6	4.8	4.7	5.2	5.1	5.9	5.8	5.9	6.3
COW PIPE	A	125	125	150	200	200	150	150	150	200	200	250	250	250	300	300
CHW PIPE	A	125	125	125	200	200	150	150	150	200	200	200	250	250	250	250
SAFETY LINE	A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SIZE	LENGTH	mm	3,486	3,486	3,912	4,848	5,065	4,177	4,177	4,227	4,522	5,622	5,622	5,644	5,644	6,644
	WIDTH	mm	1,366	1,366	1,366	1,731	1,761	1,690	1,690	1,794	2,084	2,134	2,170	2,190	2,192	2,242
	HEIGHT	mm	1,750	1,750	1,750	1,917	1,947	1,915	1,915	1,915	1,770	1,770	1,770	1,770	1,788	1,870
WEIGHT	kg	3,610	3,710	4,310	5,960	6,590	4,650	4,910	5,630	6,510	6,780	7,680	8,820	9,240	10,180	10,900
RUNNING WEIGHT	kg	4,110	4,220	4,900	7,010	7,760	5,250	5,650	6,450	7,680	7,950	9,040	10,430	11,040	12,360	13,100

FIELD INSTALLED

AIR COOLED SCREW CHILLER

PURPOSE

AIRPORTS IN AIR-CONDITIONING SYSTEMS



PROJECT NAME : LAGUINDINGAN AIRPORT
SITE : MINDANAO IN PHILIPPINES
CONTRACTOR : HANJIN HEAVY INDUSTRIES
CUSTOMER : LAGUINDINGAN AIRPORT
INSTALLATION DATE : 2010 . 11
MODEL : AR-S0150T3
QTY : 3 UNIT

MAIN SPECIFICATIONS

- REFRIGERANT : R134A
- DESIGN AMBIENT TEMP : 45℃
- CAPACITY : 150 USRT
- WATER IN/OUT TEMP : 12℃ / 7℃



PANEL

- IP GRADE : IP55
- PLC CONTROL
- MANUAL & AUTO CONTROL
- POWER INPUT : 440V / 60 HZ



OTHER DEVICE

- COMMUNICATION BAC NET

★ SINCE INSTALLED NEAR BEACH EROSION WERE CONSIDERED BY THE SEA BREEZE,
CABINET TYPE & COATING

AIR COOLED CONDENSING FOR AIR CONDITIONING SYSTEM

PURPOSE

SCREW CHILLERS FOR AIR CONDITIONING AIR-CONDITIONED 72FLOOR HOTEL



PROJECT NAME : LAND-MARK C D U
SITE : HANOI IN VIETNAM
CONTRACTOR : KANG NAM ENTERPRISES
CUSTOMER : LAND-MARK B/D
INSTALLATION DATE : 2012 . 03
MODEL : AR-SU200T4~ SUBOT2
QTY : 13 UNIT

MAIN SPECIFICATIONS

- REFRIGERANT : R22
- DESIGN AMBIENT TEMP : 40℃
- CAPACITY : 200 ~ 80 USRT
- HIGH RECEIVER TANK



PANEL

- IP GRADE : IP55
- PLC CONTROL
- POWER INPUT : 380V / 50HZ



OTHER DEVICE

- STEP & STEPLESS CONTROL
- SMART REMOTE CONTROL

★ IT WAS A CONSIDERATION FOR THE ENVIRONMENT IN THE DESIGN OF THE TOP FLOOR, (LEVEL 72 FLOOR)
INSTRUMENTS ETC. IS IP55 GRADE.

★ A HYBRID CONDENSING UNIT THOUGHT ENERGY.
SPEED FAN WAS MOUNTED CONTROLS.

AIR COOLED SCREW CHILLER

PURPOSE

AIR COMPRESSOR COOLING EQUIPMENT



PROJECT NAME : RIYADH PP11 IPP
SITE : RIYADH IN SAUDI ARABIA
CONTRACTOR : HYUNDAI HEAVY INDUSTRIES
CUSTOMER : DHURRAH-ELECTRICITY
INSTALLATION DATE : 2011 . 03
MODEL : AR-S0120E2 , S080E1
QTY : 4 UNIT

MAIN SPECIFICATIONS

- REFRIGERANT : R134A
- DESIGN AMBIENT TEMP : 55℃
- WATER IN/OUT TEMP : 35℃ / 25℃
- CAPACITY : 120 USRT, 80 USRT
- WATER EJECT SYSTEM



PANEL

- IP GRADE : IP55
- PLC CONTROL
- MANUAL & AUTO CONTROL
- 24 HOURS CONTINUOUS OPERATION
- POWER INPUT : 460V / 60HZ



OTHER DEVICE

- WATER TANK : STS304 3 TON
- WATER PUMP : 2 P/c
- AIR FILTER

AIR COOLED SCREW CHILLER

PURPOSE

HIGH-FREQUENCY WELDER & SYSTEM COOLING EQUIPMENT



PROJECT NAME : HIGH-FREQUENCY COOLING PWT
SITE : JEDDAH IN SAUDI ARABIA
CONTRACTOR : JCT (KOREA)
CUSTOMER : ALSTOM ARABIA POWER FACTORY
INSTALLATION DATE : 2014 . 08
MODEL : AR-S080H1 , S060H1
QTY : 3 UNIT

MAIN SPECIFICATIONS

- REFRIGERANT : R134A
- DESIGN AMBIENT TEMP : 60℃
- WATER IN/OUT TEMP : 40℃ / 25℃



PANEL

- IP GRADE : IP55
- SIEMENS PLC CONTROL
- MANUAL & AUTO CONTROL
- 24 HOURS CONTINUOUS OPERATION



OTHER DEVICE

- DE CERTIFICATE
- BUILT IN WATER PUMP

FIELD INSTALLED

WATER COOLED SCREW ICE MAKER

PURPOSE

WHEN USING CONCRETE TO INCREASE THE STRENGTH OF THE AMMONIA PLANT CONSTRUCTION AFTER COMPLETION OF CONSTRUCTION PIER CONSTRUCTION EQUIPMENT IS USED IN KUWAIT



PROJECT NAME : QAFED 5.6 PROJECT
SITE : UM-SAD IN QATAR
CONTRACTOR : HYUNDAI E & C
CUSTOMER : QAFED
INSTALLATION DATE : 2009 . 02
MODEL : ICE-20 , ICE-25 , 9ASOT1
QTY : 6 UNIT

MAIN SPECIFICATIONS

- REFRIGERANT : R22 , R404A
- DESIGN AMBIENT TEMP : 45℃
- TOTAL CAPACITY : 45TON / 1DAY



PANEL

- PLC CONTROL
- MANUAL & AUTO CONTROL
- POWER INPUT : 380V / 60HZ

OTHER DEVICE

- ICE ROOM
- COOLING TOWER & PUMP
- ICE FEEDING DEVICE

*ICE MAKER IS A PRODUCT PRODUCED BY THE CONVENTION OF THE UNITED STATES AND NORTH STAR ABOUT 25% OF THE ICE-MAKING EFFICIENCY IS HIGHER THAN THAT OF THE CHINESE PLANT PRODUCTS.



WATER COOLED CHILLER FOR AIR CONDITIONING SYSTEM

PURPOSE

SCREW CHILLERS FOR AIR CONDITIONING AIR-CONDITIONED HOTEL AND ENGINEERING FOR ENERGY SAVINGS



PROJECT NAME : WESTIN - CHILLER
SITE : DHAKA IN BANGLADESH
CONTRACTOR : ARIM - HVAC
CUSTOMER : WESTIN - HOTEL
INSTALLATION DATE : 2013 . 09
MODEL : AR-SW800E4
QTY : 1 UNIT

MAIN SPECIFICATIONS

- REFRIGERANT : R134A
- DESIGN AMBIENT TEMP : 40℃
- CAPACITY : 800 USRT
- EVAPORATOR & CONDENSER OPERATING
- PRESSURE 2.0 MPA



PANEL

- PLC CONTROL
- SOFT START
- POWER INPUT : 415V / 50HZ
- IP GRADE : IP54

OTHER DEVICE

- DESIGN ENERGY SAVING PIPING SYSTEM
- STEP & STEPLESS CONTROL
- POWER PEAK AUTO CONTROL

*1500USRT EXISTING ABSORPTION CHILLER AND REPLACED BY A SINGLE SCREW CHILLER IT BROUGHT A LOT OF ENERGY SAVINGS. SINCE THE QUALITY OF THE PRODUCTS RECEIVED GOOD RESPONSE FROM MANY CUSTOMERS.



2 STAGE SCREW CHILLER FOR PETROCHEMISTRY PLANT

PURPOSE

COOLING EQUIPMENT REQUIRED FOR THE PETROCHEMICAL PRODUCTION PROCESS



SK global chemical

PROJECT NAME : SK-P PROJECT
SITE : UL-SAN IN KOREA
CONTRACTOR : ARIM - HVAC
CUSTOMER : SK GLOBAL CHEMICAL
INSTALLATION DATE : 2009 . 06
MODEL : AR-SW60LZ1
QTY : 1 UNIT

MAIN SPECIFICATIONS

- REFRIGERANT : R22
- DESIGN AMBIENT TEMP : 35℃
- BRINE OUT TEMP : -50℃
- CAPACITY : 60 USRT
- EVAPORATOR : SHELL(STS304) & TUBE(COPPER)



PANEL

- IP GRADE : IP55
- PLC CONTROL
- 24 HOURS CONTINUOUS OPERATION
- POWER : 460V / 60HZ

OTHER DEVICE

- HORIZONTAL TYPE ACCUMULATOR
- HORIZONTAL TYPE OIL SEPARATOR
- SUB COOLER & OIL COOLER (SHELL & TUBE)

*SECONDARY COOLANT IS SILICON THEN HAD REQUIRE SPECIAL DESIGN.



EXPLOSION PROOF TYPE SCREW CHILLER

PURPOSE

EXPLOSION-PROOF REFRIGERATOR USED IN THE PAINT MIXING PROCESS



KCC

PROJECT NAME : KCC-EXP
SITE : UL-SAN IN KOREA
CONTRACTOR : JEONGHIN HIGH TECH
CUSTOMER : KCC
INSTALLATION DATE : 2012 . 12
MODEL : AR-SW150E3-SW60E1
QTY : 6 UNIT

MAIN SPECIFICATIONS

- REFRIGERANT : R22 & R404A
- DESIGN AMBIENT TEMP : 35℃
- BRINE IN/OUT TEMP : -25℃
- CAPACITY : 150 USRT ~ 60 USRT
- EVAPORATOR : SHELL & TUBE



PANEL

- EXPLOSION PROOF GRADE : Exd II BT4
- PLC CONTROL
- AIR PURGE SYSTEM
- POWER INPUT : 440V / 60HZ

OTHER DEVICE

- HOT GAS BY PASS SYSTEM
- STEP & STEPLESS CONTROL

*DELIVERY AND DAEJUN ENERGY RESEARCH INSTITUTE (R404A) AND WAS JUNJU HANSOL (R134A).

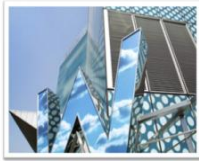


FIELD INSTALLED

CHILLER FOR ICE STORAGE AIR CONDITIONING SYSTEM

PURPOSE

A SYSTEM THAT CAN BE USED IN DAYTIME AND AT NIGHT, THE HEAT STORAGE OPERATION
IT BRINGS ENERGY SAVINGS.



W
HOTELS

PROJECT NAME : W-#1,2,3 CHILLER
SITE : SEOUL IN KOREA
CONTRACTOR : ARIM - HVAC
CUSTOMER : W-HOTEL
INSTALLATION DATE : 2013 . 05
MODEL : AR-SW500S1
QTY : 3 UNIT

MAIN SPECIFICATIONS

- REFRIGERANT : R22
- DESIGN AMBIENT TEMP : 35℃
- CAPACITY : 500 USRT
- TRIP & ALARM FUNCTION
- EVAPORATOR & CONDENSER OPERATING PRESSURE 2.0 Mpa



PANEL

- PLC CONTROL
- REACTOR START
- POWER INPUT : 3300V 60HZ



OTHER DEVICE

- CENTRALIZED SUPERVISORY AND CONTROL SYSTEM
- STEP & STEPLESS CONTROL
- POWER PEAK AUTO CONTROL

• ICE STORAGE SYSTEM IS THE PART LOAD OPERATION OF THE CHILLER MORE THAN THE TURBO CHILLER
IT IS MAINTAINED HIGHER THAN THE EFFICIENCY OF THE SCREW CHILLER.
IN ADDITION, INSTALL A MULTI-EVAPORATOR AND MAXIMIZED ENERGY SAVINGS. (KOREA'S FIRST)

WATER COOLED CHILLER FOR AIR CONDITIONING SYSTEM

PURPOSE

SCREW CHILLERS FOR AIR CONDITIONING AIR-CONDITIONED HOTEL AND
ENGINEERING FOR ENERGY SAVINGS



HOTEL LOTTE PUSAN
PUSAN KOREA

PROJECT NAME : LOTTE H/T- CHILLER
SITE : PUSAN IN KOREA
CONTRACTOR : ARIM - HVAC
CUSTOMER : LOTTE HOTEL
INSTALLATION DATE : 2012 . 11
MODEL : AR-SB400T4
QTY : 3 UNIT

MAIN SPECIFICATIONS

- REFRIGERANT : R134A
- POWER INPUT : 380V / 60HZ
- DESIGN AMBIENT TEMP : 35℃
- CAPACITY : 250 USRT
- COMPRESSOR NO : 4 PIC



PANEL

- PLC CONTROL
- POWER INPUT : 380V / 60HZ
- 3DVIEW DISPLAY
- AUTO CONTROL SYSTEM : COOLING WATER PUMP,
CHILLED WATER PUMP, COOLING TOWER FAN



OTHER DEVICE

- STEP & STEPLESS CONTROL
- POWER PEAK AUTO CONTROL

• ONE OF THE FEATURES OF THE SCREW CHILLER IS POSSIBLE TO EASILY EXPLODED.
IT WAS PROVIDED BY THE ELEVATOR.
• THERE IS AN ADVANTAGE THAT CAN WORK SAFELY THAN OTHER PRODUCTS.
CONDITIONS ON THE INSTALLATION LOCATION SHOULD BE QUIET PRODUCTS.
THIS PRODUCT WAS NOISE 76 DB. MORE THAN 10 DB REDUCED COMPARED TO CONVENTIONAL PRODUCTS.
• AFTER THE EXCELLENT QUALITY AND PERFORMANCE HAS BEEN DELIVERED TO THE COUNTRY LOTTE HOTEL.

SCREW CHILLER FOR SEMICONDUCTOR PRODUCTION LINES

PURPOSE

CHILLER FOR PROCESS COOLING WATER



JUSUNG
ENGINEERING

PROJECT NAME : PCW-JU
SITE : GWANGJU IN KOREA
CONTRACTOR : CARRIER
CUSTOMER : JUSUNG
INSTALLATION DATE : 2010 . 07
MODEL : AR-SB250E2-SB80E1
QTY : 5 UNIT

MAIN SPECIFICATIONS

- REFRIGERANT : R134A
- DESIGN AMBIENT TEMP : 35℃
- WATER IN/OUT TEMP : 20℃ / 15℃
- CAPACITY : 250 USRT, 80 USRT



PANEL

- PLC CONTROL
- A HYBRID CONDENSING UNIT THOUGHT ENERGY
- POWER INPUT : 380V / 60HZ



OTHER DEVICE

- TYPE OF SPLIT CHILLER
- EVAPORATOR (SHELL & TUBE) : ALL STS304
- HORIZONTAL TYPE : RECEIVER TANK

• LINKED PRODUCTS DIRECTLY TO STAND BY IN CASE THE REFRIGERATOR IS OPERATING IN AUTOMATIC TRIP.

SCREW CHILLER FOR PETROCHEMISTRY PLANT

PURPOSE

COOLING EQUIPMENT REQUIRED FOR THE PETROCHEMICAL PRODUCTION PROCESS



KPX
Life Science

PROJECT NAME : C-PROJECT
SITE : YESU IN KOREA
CONTRACTOR : BC ENGINEERING
CUSTOMER : KPX LIFE SCIENCE
INSTALLATION DATE : 2011 . 02
MODEL : AR-SW500L2, SW250LZ2
QTY : 2 UNIT

MAIN SPECIFICATIONS

- REFRIGERANT : R404A
- DESIGN AMBIENT TEMP : 35℃
- BRINE OUT TEMP : -25℃
- CAPACITY : 500 USRT, 250 USRT
- CONDENSER HAS A SUB-COOLING
- EVAPORATOR MATERIAL : STS304 & PE



PANEL

- IP GRADE : IP55
- PLC CONTROL
- SOFT START (ALEN-BRADLY)
- 24 HOURS CONTINUOUS OPERATION
- POWER INPUT : 460V / 60HZ



OTHER DEVICE

- HOT GAS BY PASS SYSTEM
- STEP & STEPLESS CONTROL

OTHER UNIT



ICE MAKER



2 STAGE LOW TEMP CHILLER



HEAT PUMP (WATER)



HEAT PUMP (AIR)



AIR COOLED SPLIT TYPE



CONDENSING (WATER)



WATER COOLED CHILLER



WATER COOLED CHILLER



WATER COOLED CHILLER



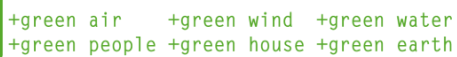
AIR COOLED CHILLER (5CS)



CONDENSING (AIR)



HEAT EXCHANGER



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주식회사

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