

아 림 공 조

SCREW CHILLER UNIT (30~1000RT)
RECIPROCATING CHILLER UNIT (5~240RT)
SCROLL CHILLER UNIT (3~60RT)
CONDENSING UNIT (3~600RT)
HEAT PUMP, ICE MAKER, AHU
COOLING TOWER
AUTO CONTROL SYSTEM, SCREW COMPRESSOR
HEAT EXCHANGER



+green air +green wind +green water
+green people +green house +green earth





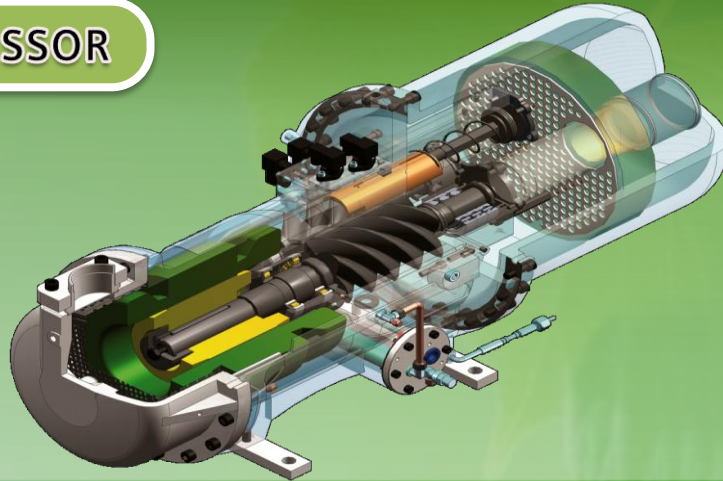
+green life +green wind +green food
+green air +green house +green water
+green people +green peace +green earth

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

- 1 MODEL INFORMATION AND CONTENTS
- 2 SCREW COMPRESSOR , CONTROLLER INFORMATION
- 3 R-22 AIR COOLED CHILLER STANDARD SPECIFICATIONS
- 4 R-134A AIR COOLED CHILLER STANDARD SPECIFICATIONS
- 5 R-407C AIR COOLED CHILLER STANDARD SPECIFICATIONS
- 6 FIELD INSTALLED
- 7 OTHER UNIT

(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.

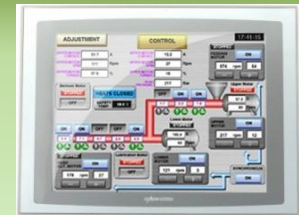
Ease of Maintenance

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.

■ 공냉식 일체형 스크류 칠러 냉동기 (AIR COOLED SCREW CHILLER UNIT) A-SERIES

- 연속 용량조절로 인한 에너지절감
- 풍부한 기술과 경험에 기초한 신뢰성
- 고성능 FIN & TUBE 장착 하여 고온의 조건에도 안정적으로 운전됨
- 안정적이 구조설계 및 저소음형 응축기 FAN을 장착하여 저진동저소음을 실현하였습니다.
- 생산설비, 공조설비 및 대형건물 및 각종산업시설에 다양한 용도로 사용됩니다.

- Energy reduction with continued capacity control
- Trustability from technology and experience
- Stable operation under high temperature with attachment of high performance fin & tube
- Stable structural design and low-noise compressor fan are equipped to achieve low vibration and low noise.
- The product is used for various purposes in production, air conditioning and industrial facilities.



SA- SINGLE UNIT



SA- MULTI UNIT

➤ 기능

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

- Used four-seasons
- With Liquid injection system
- With Receiver tank and Fan control system
- Chilled Water(Brine) Temp Range : $-20^{\circ}\text{C} \sim 15^{\circ}\text{C}$
- 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 50°C (Ambient Temp 35°C)

R-22 SPEC A-SERIES 60Hz

MODEL			SA 30T1	SA 40T1	SA 50T1	SA 60T1	SA 70T1	SA 80T1	SA 90T1	SA 100T1	SA 115T1	SA 125T1	SA 150T1	SA 180T1	SA 200T1	SA 240T1
SECTION																
Capacity	USRT		30.3	34.4	43.8	50.2	55.7	69.5	81.9	88.8	105.9	120.7	129.5	152.5	195.4	213.2
	kW		106.6	121.0	154.2	176.6	195.8	244.3	287.9	312.1	372.5	424.4	455.3	536.4	686.9	749.6
Power Input	kW		39.4	44.8	57.1	63.4	69.7	86.0	99.4	108.1	131.8	147.9	157.2	180.0	228.1	255.6
Cop	-		2.7	2.7	2.7	2.8	2.8	2.8	2.9	2.9	2.8	2.9	2.9	3.0	3.0	2.9
Current (RLA)	220V (A)		116.8	132.9	169.4	187.9	206.8	255.0	294.8	320.5	391.0	-	-	-	-	-
	380V (A)		67.6	76.9	98.1	108.8	119.7	147.6	170.7	185.5	226.4	254.0	270.0	309.0	391.5	438.7
	440V (A)		58.4	66.4	84.7	93.9	103.4	127.5	147.4	160.2	195.5	219.4	233.2	266.9	338.1	378.9
Cycle	C/S		1 C/S													
Capacity Control	%		0 , 25% ~ 100% (STEP LESS)													
Fan Motor	Kw		2.3	3.0	4.5	4.5	4.5	6.0	6.0	7.5	12.0	12.0	12.0	12.0	15.0	24.0
Air Volume	CMM		630	760	1,030	1,040	1,040	1,600	1,600	2,000	2,240	2,800	2,800	3,200	4,000	4,480
Water Flow Rate	m³/hr		18.3	20.8	26.5	30.4	33.7	42.0	49.5	53.7	64.1	73.0	78.3	92.3	118.2	128.9
Chilled Water Pipe	inch		3"	3"	4"	4"	4"	4"	4"	5"	5"	5"	5"	5"	6"	6"
Pressure Drop	mAq		2.6	2.7	2.7	2.9	3.3	3.3	3.4	3.4	3.5	3.5	3.6	3.6	3.7	3.8
Size	Length	mm	2,860	3,460	2,580	2,580	2,580	3,630	3,630	4,420	3,680	4,000	4,000	7,260	8,840	7,360
	Width	mm	1,035	1,035	1,976	1,976	1,976	2,140	2,140	2,180	2,300	2,300	2,300	2,140	2,180	2,300
	Height	mm	2,125	2,277	2,131	2,131	2,131	2,390	2,390	2,390	2,420	2,522	2,623	2,390	2,390	2,420
Weight	kg		1,480	1,480	1,680	1,730	1,770	2,340	2,410	3,180	3,280	3,380	3,400	4,480	4,930	5,120
Running Weight	kg		1,605	1,605	1,805	1,845	1,880	2,580	2,780	3,275	3,375	3,475	3,500	4,780	5,420	5,560

R-22 SPEC A-SERIES 50Hz

MODEL			SA 30T1	SA 40T1	SA 50T1	SA 60T1	SA 70T1	SA 80T1	SA 90T1	SA 100T1	SA 115T1	SA 125T1	SA 150T1	SA 180T1	SA 200T1	SA 240T1
SECTION																
Capacity	USRT		25.3	28.7	36.5	41.9	46.4	57.9	68.2	74.0	88.3	100.6	107.9	127.1	162.8	177.7
	kW		88.9	100.9	128.5	147.2	163.1	203.6	239.9	260.1	310.4	353.7	379.4	447.0	572.4	624.7
Power Input	kW		32.8	37.3	47.6	52.8	58.1	71.7	82.9	90.1	109.9	123.3	131.0	150.0	190.1	213.0
COP	-		2.7	2.7	2.7	2.8	2.8	2.8	2.9	2.9	2.8	2.9	2.9	3.0	3.0	2.9
Current (RLA)	380V (A)		56.4	64.1	81.7	90.6	99.8	123.0	142.2	154.6	188.6	211.7	225.0	257.5	326.3	365.6
	400V (A)		53.6	60.9	77.7	86.1	94.8	116.9	135.1	146.9	179.2	201.1	213.7	244.6	310.0	347.3
	415V (A)		51.6	58.7	74.8	83.0	91.4	112.6	130.2	141.6	172.7	193.8	206.0	235.8	298.8	334.8
Cycle	C/S		1 C/S													
Capacity Control	%		0 , 25% ~ 100% (STEP LESS)													
Fan Motor	Kw		1.9	2.5	3.8	3.8	3.8	5.0	5.0	6.3	10.0	10.0	10.0	10.0	12.5	20.0
Air Volume	CMM		550	660	900	900	900	1,390	1,390	1,740	1,950	2,430	2,430	2,780	3,480	3,900
Water Flow Rate	m³/hr		15.3	17.3	22.1	25.3	28.1	35.0	41.3	44.7	53.4	60.8	65.3	76.9	98.5	107.4
Chilled Water Pipe	inch		3"	3"	4"	4"	4"	4"	4"	5"	5"	5"	5"	5"	6"	6"
Pressure Drop	mAq		2.3	2.5	2.5	2.6	3.0	3.0	3.1	3.1	3.2	3.2	3.3	3.3	3.4	3.5
Size	Length	mm	2,860	3,460	2,580	2,580	2,580	3,630	3,630	4,420	3,680	4,000	4,000	7,260	8,840	7,360
	Width	mm	1,035	1,035	1,976	1,976	1,976	2,140	2,140	2,180	2,300	2,300	2,300	2,140	2,180	2,300
	Height	mm	2,125	2,277	2,131	2,131	2,131	2,390	2,390	2,390	2,420	2,522	2,623	2,390	2,390	2,420
Weight	kg		1,480	1,480	1,680	1,730	1,770	2,340	2,410	3,180	3,280	3,380	3,400	4,480	4,930	5,120
Running Weight	kg		1,605	1,605	1,805	1,845	1,880	2,580	2,780	3,275	3,375	3,475	3,500	4,780	5,420	5,560

Standard Specifications

Refrigerant R-22

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

Condenser Temp 50°C (Ambient Temp 35°C)

R-22 SPEC A-SERIES 60Hz

MODEL			SA 80T2	SA 100T2	SA 120T2	SA 140T2	SA 160T2	SA 180T2	SA 200T2	SA 230T2	SA 250T2	SA 300T2	SA 240T3	SA 270T3	SA 300T3	SA 350T3
SECTION																
Capacity	USRT		68.8	87.7	100.5	111.3	139.0	163.7	177.5	211.9	241.4	259.0	208.4	245.6	266.3	317.8
	kW		242.0	308.4	353.3	391.5	488.6	575.7	624.3	745.0	848.8	910.7	733.0	863.6	936.4	1,117.5
Power Input	kW		89.6	114.2	126.7	139.4	173.4	200.3	219.1	263.7	295.9	314.5	260.1	300.4	337.7	395.5
Cop	-		2.7	2.7	2.8	2.8	2.8	2.9	2.8	2.8	2.9	2.9	2.8	2.9	2.8	2.8
Current (RLA)	220V (A)		265.7	338.7	375.7	413.5	514.2	593.9	649.9	781.9	-	-	771.3	890.9	1001.5	1172.9
	380V (A)		153.9	196.1	217.5	239.4	297.7	343.8	376.2	452.7	508.0	539.9	446.5	515.8	579.8	679.1
	440V (A)		132.9	169.4	187.8	206.7	257.1	297.0	324.9	391.0	438.7	466.3	385.7	445.4	500.7	586.5
Cycle	C/S		2 C/S										3 C/S			
Capacity Control	%		0 , 13% ~ 100% (STEP LESS)										0 , 10% ~ 100% (STEP LESS)			
Fan Motor	Kw		6.0	9.0	9.0	9.0	13.4	13.4	18.0	24.0	24.0	24.0	20.2	20.2	36.0	36.0
Air Volume	CMM		1,760	2,400	2,400	2,400	3,600	3,600	4,200	4,480	5,600	5,600	5,400	5,400	6,000	6,000
Water Flow Rate	m³/hr		41.6	53.0	60.8	67.3	84.0	99.0	107.4	128.1	146.0	156.6	126.1	148.5	161.1	192.2
Chilled Water Pipe	inch		4"	5"	5"	5"	5"	5"	6"	6"	6"	8"	6"	8"	8"	10"
Pressure Drop	mAq		3.5	3.6	3.8	3.9	4.4	4.5	4.8	4.8	4.9	5.5	5.5	6.1	7.0	7.3
Size	Length	mm	4,315	4,315	4,315	4,315	6,120	6,120	6,820	7,780	8,420	8,420	8,970	8,970	8,370	8,370
	Width	mm	2,040	2,040	2,040	2,040	2,180	2,180	2,300	2,300	2,300	2,300	2,180	2,180	2,300	2,300
	Height	mm	2,040	2,390	2,390	2,390	2,390	2,390	2,595	2,570	2,670	2,775	2,415	2,415	2,778	2,976
Weight	kg		2,610	2,950	3,170	3,200	3,980	4,150	4,850	5,650	6,110	6,320	6,880	7,250	7,750	7,980
Running Weight	kg		2,890	3,250	3,490	3,540	4,340	4,530	5,250	6,070	6,550	6,780	7,360	7,750	8,280	8,530

R-22 SPEC A-SERIES 50Hz

MODEL			SA 80T2	SA 100T2	SA 120T2	SA 140T2	SA 160T2	SA 180T2	SA 200T2	SA 230T2	SA 250T2	SA 300T2	SA 240T3	SA 270T3	SA 300T3	SA 350T3
SECTION																
Capacity	USRT		57.4	73.1	83.7	92.8	115.8	136.4	148.0	176.6	201.2	215.8	173.7	204.7	221.9	264.8
	kW		201.7	257.0	294.4	326.3	407.2	479.8	520.2	620.8	707.3	758.9	610.8	719.7	780.4	931.2
Power Input	kW		74.7	95.2	105.6	116.2	144.5	166.9	182.6	219.7	246.6	262.1	216.8	250.4	281.4	329.6
COP	-		2.7	2.7	2.8	2.8	2.8	2.9	2.8	2.8	2.9	2.9	2.8	2.9	2.8	2.8
Current (RLA)	380V (A)		128.2	163.4	181.2	199.5	248.1	286.5	313.5	377.3	423.3	449.9	372.1	429.8	483.2	565.9
	400V (A)		121.8	155.2	172.2	189.5	235.7	272.2	297.8	358.4	402.2	427.4	353.5	408.3	459.0	537.6
	415V (A)		11.7	15.0	16.6	18.3	22.7	26.2	28.7	34.5	38.8	41.2	34.1	39.4	44.2	51.8
Cycle	C/S		2 C/S										3 C/S			
Capacity Control	%		0 , 13% ~ 100% (STEP LESS)										0 , 10% ~ 100% (STEP LESS)			
Fan Motor	Kw		5.0	7.5	7.5	7.5	11.2	11.2	15.0	20.0	20.0	20.0	16.8	16.8	30.0	30.0
Air Volume	CMM		1,530	2,090	2,090	2,090	3,130	3,130	3,650	3,900	4,870	4,870	4,700	4,700	5,220	5,220
Water Flow Rate	m³/hr		34.7	44.2	50.6	56.1	70.0	82.5	89.5	106.8	121.7	130.5	105.1	123.8	134.2	160.2
Chilled Water Pipe	inch		4"	5"	5"	5"	5"	5"	6"	6"	6"	8"	6"	8"	8"	10"
Pressure Drop	mAq		3.0	3.1	3.3	3.4	3.8	3.9	4.2	4.2	4.3	4.8	4.8	5.3	6.1	6.3
Size	Length	mm	4,315	4,315	4,315	4,315	6,120	6,120	6,820	7,780	8,420	8,420	8,970	8,970	8,370	8,370
	Width	mm	2,040	2,040	2,040	2,040	2,180	2,180	2,300	2,300	2,300	2,300	2,180	2,180	2,300	2,300
	Height	mm	2,040	2,390	2,390	2,390	2,390	2,390	2,595	2,570	2,670	2,775	2,415	2,415	2,778	2,976
Weight	kg		2,610	2,950	3,170	3,200	3,980	4,150	4,850	5,650	6,110	6,320	6,880	7,250	7,750	7,980
Running Weight	kg		2,890	3,250	3,490	3,540	4,340	4,530	5,250	6,070	6,550	6,780	7,360	7,750	8,280	8,530

Standard Specifications

Refrigerant R-22

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

Condenser Temp 50°C (Ambient Temp 35°C)

R-22 SPEC A-SERIES 60Hz

MODEL			SA 160T4	SA 200T4	SA 240T4	SA 280T4	SA 320T4	SA 360T4	SA 400T4	SA 460T4	SA 500T4	SA 200T5	SA 250T5	SA 300T5	SA 350T5	SA 400T5
SECTION																
Capacity	USRT		137.7	175.4	200.9	222.7	277.9	327.5	355.1	423.7	482.8	172.1	219.2	251.2	278.4	347.4
	kW		484.1	616.7	706.6	783.0	977.3	1,151.5	1,248.6	1,490.0	1,697.5	605.1	770.9	883.2	978.8	1,221.6
Power Input	kW		179.2	228.4	253.4	278.8	346.8	400.6	450.3	527.4	615.8	224.0	285.6	316.7	348.6	433.5
Cop	-		2.7	2.7	2.8	2.8	2.8	2.9	2.8	2.8	2.8	2.7	2.7	2.8	2.8	2.8
Current (RLA)	220V (A)		531.5	677.4	751.3	826.9	1028.4	1187.8	1335.3	1563.9	-	664.4	846.8	939.1	1033.6	1285.5
	380V (A)		307.7	392.2	435.0	478.7	595.4	687.7	773.1	905.4	1057.2	384.6	490.3	543.7	598.4	744.2
	440V (A)		265.7	338.7	375.7	413.5	514.2	593.9	667.6	781.9	913.0	332.2	423.4	469.6	516.8	642.8
Cycle	C/S		4 C/S										5 C/S			
Capacity Control	%		0 , 8% ~ 100% (STEP LESS)										0 , 5% ~ 100% (STEP LESS)			
Fan Motor	Kw		12.0	17.9	17.9	17.9	26.9	26.9	48.0	48.0	72.0	15.0	22.4	22.4	22.4	33.6
Air Volume	CMM		1,760	2,400	2,400	2,400	3,600	3,600	4,200	4,480	5,600	5,600	5,400	5,400	6,000	6,000
Water Flow Rate	m³/hr		83.3	106.1	121.5	134.7	168.1	198.1	214.8	256.3	292.0	104.1	132.6	151.9	168.4	210.1
Chilled Water Pipe	inch		5"	6"	6"	8"	8"	10"	10"	10"	10"	6"	6"	8"	10"	10"
Pressure Drop	mAq		4.9	5.5	5.9	6.4	6.9	7.1	7.3	7.5	7.8	6.9	7.1	7.2	7.5	7.9
Size	Length	mm	8,445	8,075	8,075	8,075	11,475	11,475	10,675	10,675	16,075	8,100	8,100	8,100	8,100	11,500
	Width	mm	2,040	2,040	2,040	2,040	2,180	2,180	2,300	2,300	2,300	2,040	2,040	2,040	2,040	2,180
	Height	mm	2,040	2,390	2,390	2,390	2,390	2,390	2,778	2,976	2,778	2,040	2,390	2,390	2,390	2,390
Weight	kg		5,630	6,050	6,400	6,480	7,560	8,105	8,650	8,980	10,750	7,040	7,560	8,000	8,100	9,450
Running Weight	kg		6,100	6,540	6,910	7,010	8,110	8,675	9,240	9,590	11,300	7,690	8,230	8,690	8,830	10,750

R-22 SPEC A-SERIES 50Hz

MODEL			SA 160T4	SA 200T4	SA 240T4	SA 280T4	SA 320T4	SA 360T4	SA 400T4	SA 460T4	SA 500T4	SA 200T5	SA 250T5	SA 300T5	SA 350T5	SA 400T5
SECTION																
Capacity	USRT		114.7	146.2	167.4	185.6	231.6	272.9	295.9	353.1	402.3	143.4	182.7	209.3	232.0	289.5
	kW		403.4	513.9	588.8	652.5	814.4	959.6	1,040.5	1,241.6	1,414.6	504.3	642.4	736.0	815.7	1,018.0
Power Input	kW		149.4	190.4	211.1	232.4	289.0	333.8	375.2	439.5	513.2	186.7	238.0	263.9	290.5	361.3
COP	-		2.7	2.7	2.8	2.8	2.8	2.9	2.8	2.8	2.8	2.7	2.7	2.8	2.8	2.8
Current (RLA)	380V (A)		256.4	326.8	362.5	398.9	496.2	573.1	644.2	754.5	881.0	320.5	408.5	453.1	498.7	620.2
	400V (A)		243.6	310.5	344.4	379.0	471.4	544.4	612.0	716.8	837.0	304.5	388.1	430.4	473.7	589.2
	415V (A)		234.8	299.3	331.9	365.3	454.3	524.7	589.9	690.9	806.7	293.5	374.1	414.9	456.6	567.9
Cycle	C/S		4 C/S										5 C/S			
Capacity Control	%		0 , 8% ~ 100% (STEP LESS)										0 , 5% ~ 100% (STEP LESS)			
Fan Motor	Kw		10.0	14.9	14.9	14.9	22.4	22.4	40.0	40.0	60.0	12.5	18.7	18.7	18.7	28.0
Air Volume	CMM		1,530	2,090	2,090	2,090	3,130	3,130	3,650	3,900	4,870	4,870	4,700	4,700	5,220	5,220
Water Flow Rate	m³/hr		69.4	88.4	101.3	112.2	140.1	165.0	179.0	213.6	243.3	86.7	110.5	126.6	140.3	175.1
Chilled Water Pipe	inch		5"	6"	6"	8"	8"	10"	10"	10"	10"	6"	6"	8"	10"	10"
Pressure Drop	mAq		4.3	5.0	5.4	5.8	6.3	6.5	6.6	6.8	7.1	6.3	6.5	6.5	6.8	7.2
Size	Length	mm	8,445	8,075	8,075	8,075	11,475	11,475	10,675	10,675	16,075	8,100	8,100	8,100	8,100	11,500
	Width	mm	2,040	2,040	2,040	2,040	2,180	2,180	2,300	2,300	2,300	2,040	2,040	2,040	2,040	2,180
	Height	mm	2,040	2,390	2,390	2,390	2,390	2,390	2,778	2,976	2,778	2,040	2,390	2,390	2,390	2,390
Weight	kg		5,630	6,050	6,400	6,480	7,560	8,105	8,650	8,980	10,750	7,040	7,560	8,000	8,100	9,450
Running Weight	kg		6,100	6,540	6,910	7,010	8,110	8,675	9,240	9,590	11,300	7,690	8,230	8,690	8,830	10,750

■ ■ 공냉식 일체형 스크류 칠러 냉동기 (AIR COOLED SCREW CHILLER UNIT) D-SERIES

- 환경을 생각한 친환경냉매사용
- 풍부한 기술과 경험에 기초한 신뢰성
- 고성능 FIN & TUBE 장착 하여 고온의 조건에도 안정적으로 운전됨
- 안정적이 구조설계및 저소음형 응축기 FAN을 장착하여 저진동저소음을 실현하였습니다.
- 생산설비 ,공조설비, 대형건물 및 각종산업시설에 다양한 용도로 사용됩니다.
- Environment-friendly refrigerant
- High efficiency cooling device
- Stable operation under high temperature with attachment of high performance fin & tube
- Stable structural design and low-noise compressor fan are equipped to achieve low vibration and low noise.
- The product is used for various purposes in production, air conditioning and industrial facilities.



SD- SINGLE UNIT



SD- MULTI UNIT

기능

- 사계절 사용가능 - 액분사시스템장착
- 수액기, FAN제어
- 냉수온도 $-15^{\circ}\text{C} \sim 20^{\circ}\text{C}$ 적용
- 표준사용수압 0.8 MPa
- 각종 안전장치 장착
- 소비전력에 따른 피크관리 제어 가능
(주문시 협의요망)
- 외기온도 $-15^{\circ}\text{C} \sim 50^{\circ}\text{C}$ 사용가능
- Used four-seasons
- With Liquid injection system
- With Receiver tank and Fan control system
- Chilled Water(Brine) Temp Range : $-15^{\circ}\text{C} \sim 20^{\circ}\text{C}$
- Maximum operation Water pressure : 0.8 MPa
- With safety devices
- This product can Power input control (Option)
- This product running Embient Temp Range : $-15^{\circ}\text{C} \sim 50^{\circ}\text{C}$

Standard Specifications

Refrigerant R-134a

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

Condenser Temp 50°C (Ambient Temp 35°C)

R-134a SPEC D-SERIES 60Hz

MODEL			SD 30T1	SD 40T1	SD 50T1	SD 60T1	SD 70T1	SD 80T1	SD 90T1	SD 100T1	SD 115T1	SD 125T1	SD 150T1	SD 180T1	SD 200T1	SD 240T1
SECTION																
Capacity	USRT		19.7	22.3	28.5	32.9	36.4	45.5	53.6	58.0	69.2	76.8	82.7	100.8	112.1	140.7
	kW		69.2	78.5	100.1	115.6	128.1	159.8	188.3	204.0	243.5	270.1	291.0	354.3	394.1	494.8
Power Input	kW		24.8	27.7	34.6	39.8	43.8	53.9	62.2	68.5	80.4	88.4	95.6	117.8	129.3	158.4
Cop	-		2.8	2.8	2.9	2.9	2.9	3.0	3.0	3.0	3.0	3.1	3.0	3.0	3.0	3.1
Current (RLA)	220V (A)		73.5	82.1	102.5	117.9	129.7	159.9	184.4	203.1	238.3	-	-	-	-	-
	380V (A)		42.5	47.5	59.3	68.3	75.1	92.6	106.7	117.6	138.0	151.7	164.2	202.3	221.9	272.0
	440V (A)		36.7	41.1	51.3	59.0	64.9	80.0	92.2	101.5	119.1	131.0	141.8	174.7	191.6	234.9
Cycle	C/S		1 C/S													
Capacity Control	%		0 , 25% ~ 100% (STEP LESS)													
Fan Motor	Kw		2.3	2.3	2.3	3.0	3.0	4.5	4.5	6.0	6.0	6.0	7.5	12.0	12.0	12.0
Air Volume	CMM		516	516	630	760	760	1,040	1,040	1,600	1,600	1,600	2,000	2,240	2,800	3,200
Water Flow Rate	m³/hr		11.9	13.5	17.2	19.9	22.0	27.5	32.4	35.1	41.9	46.5	50.0	60.9	67.8	85.1
Chilled Water Pipe	inch		2 1/2"	2 1/2"	3"	3"	3"	3"	4"	4"	4"	4"	4"	5"	5"	5"
Pressure Drop	mAq		2.4	2.5	2.5	2.6	3.0	3.0	3.1	3.1	3.2	3.2	3.3	3.3	3.4	3.5
Size	Length	mm	2,450	2,450	2,860	3,460	3,460	2,580	2,580	3,630	3,630	3,630	4,420	3,680	4,000	7,260
	Width	mm	935	935	1,035	1,035	1,035	1,976	1,976	2,140	2,140	2,140	2,180	2,300	2,300	2,140
	Height	mm	1,905	1,905	2,125	2,277	2,277	2,131	2,131	2,390	2,390	2,390	2,390	2,420	2,522	2,390
Weight	kg		1,320	1,360	1,520	1,580	1,610	1,870	1,930	2,380	2,450	2,450	3,220	3,320	3,420	4,520
Running Weight	kg		1,435	1,475	1,640	1,700	1,735	1,995	2,055	2,530	2,630	2,670	3,460	3,570	3,690	4,820

R-134a SPEC D-SERIES 50Hz

MODEL			SD 30T1	SD 40T1	SD 50T1	SD 60T1	SD 70T1	SD 80T1	SD 90T1	SD 100T1	SD 115T1	SD 125T1	SD 150T1	SD 180T1	SD 200T1	SD 240T1
SECTION																
Capacity	USRT		16.4	18.6	23.7	27.4	30.4	37.9	44.6	48.4	57.7	64.0	69.0	84.0	93.4	117.3
	kW		57.7	65.5	83.4	96.3	106.7	133.2	156.9	170.0	202.9	225.1	242.5	295.2	328.4	412.3
Power Input	kW		20.6	23.1	28.8	33.1	36.5	44.9	51.8	57.1	67.0	73.6	79.7	98.2	107.7	132.0
COP	-		2.8	2.8	2.9	2.9	2.9	3.0	3.0	3.0	3.0	3.1	3.0	3.0	3.0	3.1
Current (RLA)	380V (A)		35.4	39.6	49.5	56.9	62.6	77.2	88.9	98.0	115.0	126.4	136.8	168.6	184.9	226.7
	400V (A)		33.7	37.6	47.0	54.1	59.5	73.3	84.5	93.1	109.2	120.1	130.0	160.2	175.7	215.3
	415V (A)		32.5	36.3	45.3	52.1	57.3	70.6	81.4	89.7	105.3	115.8	125.3	154.4	169.3	207.5
Cycle	C/S		1 C/S													
Capacity Control	%		0 , 25% ~ 100% (STEP LESS)													
Fan Motor	Kw		1.9	1.9	1.9	2.5	2.5	3.8	3.8	5.0	5.0	5.0	6.3	10.0	10.0	10.0
Air Volume	CMM		450	450	550	660	660	900	900	1,390	1,390	1,390	1,740	1,950	2,430	2,780
Water Flow Rate	m³/hr		9.9	11.3	14.3	16.6	18.4	22.9	27.0	29.2	34.9	38.7	41.7	50.8	56.5	70.9
Chilled Water Pipe	inch		2 1/2"	2 1/2"	3"	3"	3"	3"	4"	4"	4"	4"	4"	5"	5"	5"
Pressure Drop	mAq		2.1	2.2	2.2	2.4	2.7	2.7	2.8	2.8	2.9	2.9	3.0	3.0	3.1	3.1
Size	Length	mm	2,860	3,460	2,580	2,580	2,580	3,630	3,630	4,420	3,680	4,000	4,000	7,260	8,840	7,360
	Width	mm	1,035	1,035	1,976	1,976	1,976	2,140	2,140	2,180	2,300	2,300	2,300	2,140	2,180	2,300
	Height	mm	2,125	2,277	2,131	2,131	2,131	2,390	2,390	2,390	2,420	2,522	2,623	2,390	2,390	2,420
Weight	kg		1,480	1,480	1,680	1,730	1,770	2,340	2,410	3,180	3,280	3,380	3,400	4,480	4,930	5,120
Running Weight	kg		1,605	1,605	1,805	1,845	1,880	2,580	2,780	3,275	3,375	3,475	3,500	4,780	5,420	5,560

Standard Specifications

Refrigerant R-134a

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

Condenser Temp 50°C (Ambient Temp 35°C)

R-134a SPEC D-SERIES 60Hz

MODEL			SD 80T2	SD 100T2	SD 120T2	SD 140T2	SD 160T2	SD 180T2	SD 200T2	SD 230T2	SD 250T2	SD 300T2	SD 240T3	SD 270T3	SD 300T3	SD 350T3
SECTION																
Capacity	USRT		44.7	56.9	65.7	72.8	90.9	107.1	116.1	138.5	153.6	165.5	136.4	160.7	174.1	207.7
	kW		157.1	200.1	231.1	256.1	319.7	376.7	408.1	487.0	540.2	581.9	479.5	565.0	612.1	730.5
Power Input	kW		56.9	70.6	79.5	87.5	107.8	124.3	138.4	162.1	182.7	194.2	161.7	186.5	207.6	243.2
Cop	-		2.8	2.8	2.9	2.9	3.0	3.0	2.9	3.0	3.0	3.0	3.0	3.0	2.9	3.0
Current (RLA)	220V (A)		168.7	209.5	235.9	259.5	319.7	368.6	410.4	480.8	-	-	479.6	552.9	615.7	721.2
	380V (A)		97.7	121.3	136.5	150.2	185.1	213.4	237.6	278.4	313.7	333.5	277.7	320.1	356.4	417.6
	440V (A)		84.3	104.7	117.9	129.7	159.9	184.3	205.2	240.4	270.9	288.0	239.8	276.5	307.8	360.6
Cycle	C/S		2 C/S										3 C/S			
Capacity Control	%		0 , 13% ~ 100% (STEP LESS)										0 , 10% ~ 100% (STEP LESS)			
Fan Motor	Kw		6.0	6.0	6.0	6.0	9.0	9.0	13.4	13.4	18.0	18.0	13.4	13.4	20.2	20.2
Air Volume	CMM		1,400	1,400	1,760	1,760	2,400	2,400	3,600	3,600	4,200	4,200	3,600	3,600	5,400	5,400
Water Flow Rate	m³/hr		27.0	34.4	39.8	44.1	55.0	64.8	70.2	83.8	92.9	100.1	82.5	97.2	105.3	125.6
Chilled Water Pipe	inch		3"	4"	4"	4"	5"	5"	5"	5"	5"	5"	5"	5"	5"	6"
Pressure Drop	mAq		3.0	3.1	3.3	3.4	3.8	3.9	4.2	4.2	4.3	4.8	4.8	5.3	6.1	6.3
Size	Length	mm	4,115	4,115	4,315	4,315	4,315	4,315	6,120	6,120	6,820	6,820	6,420	6,420	8,970	8,970
	Width	mm	1,940	1,940	2,040	2,040	2,040	2,040	2,180	2,180	2,300	2,300	2,040	2,040	2,180	2,180
	Height	mm	2,040	2,040	2,040	2,390	2,390	2,390	2,390	2,390	2,595	2,595	2,390	2,390	2,390	2,390
Weight	kg		2,570	2,640	2,740	3,100	3,330	3,360	4,180	4,360	5,090	5,090	5,200	5,510	6,270	6,540
Running Weight	kg		2,850	2,940	3,060	3,440	3,690	3,740	4,580	4,780	5,530	5,550	5,680	6,010	6,800	7,090

R-134a SPEC D-SERIES 50Hz

MODEL			SD 80T2	SD 100T2	SD 120T2	SD 140T2	SD 160T2	SD 180T2	SD 200T2	SD 230T2	SD 250T2	SD 300T2	SD 240T3	SD 270T3	SD 300T3	SD 350T3
SECTION																
Capacity	USRT		37.2	47.4	54.8	60.7	75.8	89.3	96.7	115.4	128.0	137.9	113.6	133.9	145.1	173.1
	kW		130.9	166.8	192.6	213.4	266.4	313.9	340.1	405.8	450.2	484.9	399.6	470.8	510.1	608.7
Power Input	kW		47.4	58.9	66.3	72.9	89.8	103.6	115.3	135.1	152.3	161.9	134.8	155.4	173.0	202.7
COP	-		2.8	2.8	2.9	2.9	3.0	3.0	2.9	3.0	3.0	3.0	3.0	3.0	2.9	3.0
Current (RLA)	380V (A)		81.4	101.1	113.8	125.2	154.3	177.8	198.0	232.0	261.4	277.9	231.4	266.8	297.0	348.0
	400V (A)		77.3	96.0	108.1	118.9	146.5	168.9	188.1	220.4	248.4	264.0	219.8	253.4	282.2	330.6
	415V (A)		74.5	92.5	104.2	114.6	141.2	162.8	181.3	212.4	239.4	254.4	211.9	244.3	272.0	318.6
Cycle	C/S		2 C/S										3 C/S			
Capacity Control	%		0 , 13% ~ 100% (STEP LESS)										0 , 10% ~ 100% (STEP LESS)			
Fan Motor	Kw		5.0	5.0	5.0	5.0	7.5	7.5	11.2	11.2	15.0	15.0	11.2	11.2	16.8	16.8
Air Volume	CMM		1,220	1,220	1,530	1,530	2,090	2,090	3,130	3,130	3,650	3,650	3,130	3,130	4,700	4,700
Water Flow Rate	m³/hr		22.5	28.7	33.1	36.7	45.8	54.0	58.5	69.8	77.4	83.4	68.7	81.0	87.7	104.7
Chilled Water Pipe	inch		3"	4"	4"	4"	5"	5"	5"	5"	5"	5"	5"	5"	5"	6"
Pressure Drop	mAq		2.6	2.8	3.0	3.1	3.5	3.6	3.8	3.8	3.9	4.3	4.3	4.8	5.5	5.8
Size	Length	mm	4,115	4,115	4,315	4,315	4,315	4,315	6,120	6,120	6,820	6,820	6,420	6,420	8,970	8,970
	Width	mm	1,940	1,940	2,040	2,040	2,040	2,040	2,180	2,180	2,300	2,300	2,040	2,040	2,180	2,180
	Height	mm	2,040	2,040	2,040	2,390	2,390	2,390	2,390	2,390	2,595	2,595	2,390	2,390	2,390	2,390
Weight	kg		2,570	2,640	2,740	3,100	3,330	3,360	4,180	4,360	5,090	5,090	5,200	5,510	6,270	6,540
Running Weight	kg		2,850	2,940	3,060	3,440	3,690	3,740	4,580	4,780	5,530	5,550	5,680	6,010	6,800	7,090

Standard Specifications

Refrigerant R-134a

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

Condenser Temp 50°C (Eambient Temp 35°C)

R-134a SPEC D-SERIES 60Hz

MODEL			SD 160T4	SD 200T4	SD 240T4	SD 280T4	SD 320T4	SD 360T4	SD 400T4	SD 460T4	SD 500T4	SD 200T5	SD 250T5	SD 300T5	SD 350T5	SD 400T5
SECTION																
Capacity	USRT		89.3	113.8	131.5	145.7	181.8	214.2	232.1	277.0	307.3	111.7	142.3	164.3	182.1	227.3
	kW		314.2	400.3	462.2	512.3	639.3	753.3	816.1	974.0	1,080.4	392.7	500.3	577.8	640.3	799.1
Power Input	kW		113.8	141.3	159.1	175.0	215.6	248.6	276.8	324.3	365.5	142.2	176.6	198.8	218.8	269.5
Cop	-		2.8	2.8	2.9	2.9	3.0	3.0	2.9	3.0	3.0	2.8	2.8	2.9	2.9	3.0
Current (RLA)	220V (A)		337.3	418.9	471.7	519.0	639.4	737.2	820.9	961.7	-	421.7	523.6	589.6	648.7	799.3
	380V (A)		195.3	242.5	273.1	300.5	370.2	426.8	475.2	556.7	627.5	244.1	303.2	341.4	375.6	462.8
	440V (A)		168.7	209.5	235.9	259.5	319.7	368.6	410.4	480.8	541.9	210.8	261.8	294.8	324.4	399.6
Cycle	C/S		4 C/S										5 C/S			
Capacity Control	%		0 , 8% ~ 100% (STEP LESS)										0 , 5% ~ 100% (STEP LESS)			
Fan Motor	Kw		12.0	12.0	12.0	12.0	17.9	17.9	26.9	26.9	36.0	15.0	15.0	15.0	15.0	22.4
Air Volume	CMM		2,800	2,800	3,520	3,520	4,800	4,800	7,200	7,200	8,400	3,500	3,500	4,400	4,400	6,000
Water Flow Rate	m³/hr		54.0	68.8	79.5	88.1	110.0	129.6	140.4	167.5	185.8	67.5	86.1	99.4	110.1	137.5
Chilled Water Pipe	inch		5"	5"	5"	5"	6"	6"	6"	8"	8"	5"	5"	5"	6"	6"
Pressure Drop	mAq		4.3	4.8	5.1	5.6	6.0	6.2	6.3	6.5	6.8	6.0	6.2	6.3	6.5	6.9
Size	Length	mm	7,965	7,965	8,165	8,165	8,365	8,365	11,870	11,870	13,245	9,970	9,970	9,970	9,970	10,470
	Width	mm	1,940	1,940	2,040	2,040	2,040	2,040	2,180	2,180	2,300	1,940	1,940	1,940	1,940	2,180
	Height	mm	2,065	2,065	2,065	2,415	2,415	2,415	2,415	2,415	2,620	2,620	2,415	2,415	2,415	2,415
Weight	kg		5,610	5,850	6,180	6,560	6,720	6,800	8,370	8,510	8,950	7,840	7,950	8,200	8,450	8,740
Running Weight	kg		6,080	6,340	6,690	7,090	7,270	7,370	8,960	9,120	9,600	8,490	8,620	8,890	9,180	9,620

R-134a SPEC D-SERIES 50Hz

MODEL			SD 160T4	SD 200T4	SD 240T4	SD 280T4	SD 320T4	SD 360T4	SD 400T4	SD 460T4	SD 500T4	SD 200T5	SD 250T5	SD 300T5	SD 350T5	SD 400T5
SECTION																
Capacity	USRT		74.5	94.9	109.5	121.4	151.5	178.5	193.4	230.8	256.0	93.1	118.6	136.9	151.8	189.4
	kW		261.8	333.6	385.2	426.9	532.8	627.8	680.1	811.6	900.3	327.3	417.0	481.5	533.6	666.0
Power Input	kW		94.8	117.7	132.6	145.8	179.7	207.2	230.7	270.2	304.6	118.5	147.2	165.7	182.3	224.6
COP	-		2.8	2.8	2.9	2.9	3.0	3.0	2.9	3.0	3.0	2.8	2.8	2.9	2.9	3.0
Current (RLA)	380V (A)		162.8	202.1	227.6	250.4	308.5	355.7	396.0	464.0	522.9	203.4	252.6	284.5	313.0	385.6
	400V (A)		154.6	192.0	216.2	237.9	293.1	337.9	376.2	440.8	496.7	193.3	240.0	270.3	297.3	366.3
	415V (A)		149.0	185.1	208.4	229.3	282.5	325.7	362.6	424.8	478.8	186.3	231.3	260.5	286.6	353.1
Cycle	C/S		4 C/S										5 C/S			
Capacity Control	%		0 , 8% ~ 100% (STEP LESS)										0 , 5% ~ 100% (STEP LESS)			
Fan Motor	Kw		10.0	10.0	10.0	10.0	14.9	14.9	22.4	22.4	30.0	12.5	12.5	12.5	12.5	18.7
Air Volume	CMM		2,430	2,430	3,060	3,060	4,170	4,170	6,260	6,260	7,300	3,040	3,040	3,830	3,830	5,220
Water Flow Rate	m³/hr		45.0	57.4	66.3	73.4	91.6	108.0	117.0	139.6	154.9	56.3	71.7	82.8	91.8	114.5
Chilled Water Pipe	inch		5"	5"	5"	5"	6"	6"	6"	8"	8"	5"	5"	5"	6"	6"
Pressure Drop	mAq		3.7	4.3	4.7	5.1	5.5	5.6	5.8	5.9	6.2	5.5	5.6	5.7	5.9	6.2
Size	Length	mm	7,965	7,965	8,165	8,165	8,365	8,365	11,870	11,870	13,245	9,970	9,970	9,970	9,970	10,470
	Width	mm	1,940	1,940	2,040	2,040	2,040	2,040	2,180	2,180	2,300	1,940	1,940	1,940	1,940	2,180
	Height	mm	2,065	2,065	2,065	2,415	2,415	2,415	2,415	2,415	2,620	2,620	2,415	2,415	2,415	2,415
Weight	kg		5,610	5,850	6,180	6,560	6,720	6,800	8,370	8,510	8,950	7,840	7,950	8,200	8,450	8,740
Running Weight	kg		6,080	6,340	6,690	7,090	7,270	7,370	8,960	9,120	9,600	8,490	8,620	8,890	9,180	9,620

■ ■ 공냉식 일체형 스크류 칠러 냉동기 (AIR COOLED SCREW CHILLER UNIT) M-SERIES

- 환경을 생각한 대체냉매사용
- 풍부한 기술과 경험에 기초한 신뢰성
- 고성능 FIN & TUBE 장착 하여 고온의 조건에도 안정적으로 운전됨
- 안정적이 구조설계 및 저소음형 응축기 FAN을 장착하여 저진동저소음을 실현하였습니다.
- 생산설비, 공조설비, 대형건물 및 각종산업시설에 다양한 용도로 사용됩니다.
- Environment-friendly refrigerant
- High efficiency cooling device
- 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.



SM- SINGLE UNIT



SM- MULTI UNIT

▶ 기능

- 사계절 사용가능 - 액분사시스템장착
- 수액기, FAN제어
- 냉수온도 -20℃~15℃ 적용
- 표준사용수압 0.8 MPa
- 각종 안전장치 장착
- 소비전력에 따른 피크관리 제어 가능
(주문시 협의요망)
- Used four-seasons
- With Liquid injection system
- With Receiver tank and Fan control system
- Chilled Water(Brine) Temp Range : -20℃ ~ 15℃
- Maximum operation Water pressure : 0.8 MPa
- With safety devices
- This product can Power input control (Option)

Standard Specifications

Refrigerant R-407C

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

Condenser Temp 50°C (Ambient Temp 35°C)

R-407C SPEC M-SERIES 50Hz

MODEL			SM 30T1	SM 40T1	SM 50T1	SM 60T1	SM 70T1	SM 80T1	SM 90T1	SM 100T1	SM 115T1	SM 125T1	SM 150T1	SM 180T1	SM 200T1	SM 240T1
SECTION																
Capacity	USRT		28.9	32.8	41.8	47.9	53.1	66.7	78.1	83.7	99.9	110.8	119.4	145.5	186.4	203.4
	kW		101.5	115.2	147.1	168.5	186.8	234.5	274.7	294.4	351.3	389.7	419.8	511.7	655.4	715.2
Power Input	kW		38.5	44.0	56.2	62.4	68.6	85.1	97.8	105.2	128.4	140.6	150.0	177.1	224.4	251.6
Cop	-		2.6	2.6	2.6	2.7	2.7	2.8	2.8	2.8	2.7	2.8	2.8	2.9	2.9	2.8
Current (RLA)	220V (A)		114.1	130.5	166.8	184.9	203.5	252.3	290.1	312.0	380.9	-	-	-	-	-
	380V (A)		66.0	75.5	96.5	107.0	117.8	146.1	168.0	180.6	220.5	241.4	257.5	304.1	385.3	432.0
	440V (A)		57.0	65.2	83.4	92.4	101.7	126.2	145.1	156.0	190.5	208.5	222.4	262.6	332.8	373.1
Cycle	C/S		1 C/S													
Capacity Control	%		0 , 25% ~ 100% (STEP LESS)													
Fan Motor	Kw		2.3	3.0	4.5	4.5	4.5	6.0	6.0	7.5	12.0	12.0	12.0	12.0	15.0	24.0
Air Volume	CMM		630	760	1,030	1,040	1,040	1,600	1,600	2,000	2,240	2,800	2,800	3,200	4,000	4,480
Water Flow Rate	m³/hr		17.5	19.8	25.3	29.0	32.1	40.3	47.2	50.6	60.4	67.0	72.2	88.0	112.7	123.0
Chilled Water Pipe	inch		3"	3"	4"	4"	4"	4"	4"	5"	5"	5"	5"	5"	6"	6"
Pressure Drop	mAq		2.6	2.7	2.7	2.9	3.3	3.3	3.4	3.4	3.5	3.5	3.6	3.6	3.7	3.8
Size	Length	mm	2,860	3,460	2,580	2,580	2,580	3,630	3,630	4,420	3,680	4,000	4,000	7,260	8,840	7,360
	Width	mm	1,035	1,035	1,976	1,976	1,976	2,140	2,140	2,180	2,300	2,300	2,300	2,140	2,180	2,300
	Height	mm	2,125	2,277	2,131	2,131	2,131	2,390	2,390	2,390	2,420	2,522	2,623	2,390	2,390	2,420
Weight	kg		1,480	1,480	1,680	1,730	1,770	2,340	2,410	3,180	3,280	3,380	3,400	4,480	4,930	5,120
Running Weight	kg		1,605	1,605	1,805	1,845	1,880	2,580	2,780	3,275	3,375	3,475	3,500	4,780	5,420	5,560

R-407C SPEC M-SERIES 50Hz

MODEL			SM 30T1	SM 40T1	SM 50T1	SM 60T1	SM 70T1	SM 80T1	SM 90T1	SM 100T1	SM 115T1	SM 125T1	SM 150T1	SM 180T1	SM 200T1	SM 240T1
SECTION																
Capacity	USRT		28.9	32.8	41.8	47.9	53.1	66.7	78.1	83.7	99.9	110.8	119.4	145.5	186.4	203.4
	kW		101.5	115.2	147.1	168.5	186.8	234.5	274.7	294.4	351.3	389.7	419.8	511.7	655.4	715.2
Power Input	kW		38.5	44.0	56.2	62.4	68.6	85.1	97.8	105.2	128.4	140.6	150.0	177.1	224.4	251.6
COP	-		2.6	2.6	2.6	2.7	2.7	2.8	2.8	2.8	2.7	2.8	2.8	2.9	2.9	2.8
Current (RLA)	380V (A)		114.1	130.5	166.8	184.9	203.5	252.3	290.1	312.0	380.9	-	-	-	-	-
	400V (A)		66.0	75.5	96.5	107.0	117.8	146.1	168.0	180.6	220.5	241.4	257.5	304.1	385.3	432.0
	415V (A)		57.0	65.2	83.4	92.4	101.7	126.2	145.1	156.0	190.5	208.5	222.4	262.6	332.8	373.1
Cycle	C/S		1 C/S													
Capacity Control	%		0 , 25% ~ 100% (STEP LESS)													
Fan Motor	Kw		2.3	3.0	4.5	4.5	4.5	6.0	6.0	7.5	12.0	12.0	12.0	12.0	15.0	24.0
Air Volume	CMM		630	760	1,030	1,040	1,040	1,600	1,600	2,000	2,240	2,800	2,800	3,200	4,000	4,480
Water Flow Rate	m³/hr		17.5	19.8	25.3	29.0	32.1	40.3	47.2	50.6	60.4	67.0	72.2	88.0	112.7	123.0
Chilled Water Pipe	inch		3"	3"	4"	4"	4"	4"	4"	5"	5"	5"	5"	5"	6"	6"
Pressure Drop	mAq		2.6	2.7	2.7	2.9	3.3	3.3	3.4	3.4	3.5	3.5	3.6	3.6	3.7	3.8
Size	Length	mm	2,860	3,460	2,580	2,580	2,580	3,630	3,630	4,420	3,680	4,000	4,000	7,260	8,840	7,360
	Width	mm	1,035	1,035	1,976	1,976	1,976	2,140	2,140	2,180	2,300	2,300	2,300	2,140	2,180	2,300
	Height	mm	2,125	2,277	2,131	2,131	2,131	2,390	2,390	2,390	2,420	2,522	2,623	2,390	2,390	2,420
Weight	kg		1,480	1,480	1,680	1,730	1,770	2,340	2,410	3,180	3,280	3,380	3,400	4,480	4,930	5,120
Running Weight	kg		1,605	1,605	1,805	1,845	1,880	2,580	2,780	3,275	3,375	3,475	3,500	4,780	5,420	5,560

Standard Specifications

Refrigerant R-407C

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

Condenser Temp 50°C (Ambient Temp 35°C)

R-407C SPEC M-SERIES 60Hz

MODEL			SM 80T2	SM 100T2	SM 120T2	SM 140T2	SM 160T2	SM 180T2	SM 200T2	SM 230T2	SM 250T2	SM 300T2	SM 240T3	SM 270T3	SM 300T3	SM 350T3
SECTION																
Capacity	USRT		65.5	83.7	95.9	106.2	133.4	156.2	167.4	199.8	221.7	238.8	200.1	234.3	251.2	299.7
	kW		230.4	294.2	337.1	373.5	469.0	549.3	588.8	702.6	779.4	839.6	703.4	824.0	883.2	1,053.9
Power Input	kW		88.0	112.4	124.7	137.2	171.6	197.1	213.4	256.9	281.3	299.9	257.4	295.7	329.1	385.3
Cop	-		2.6	2.6	2.7	2.7	2.7	2.8	2.8	2.7	2.8	2.8	2.7	2.8	2.7	2.7
Current (RLA)	220V (A)		261.0	333.4	369.7	406.8	508.9	584.5	632.9	761.8	-	-	763.4	876.8	976.1	1142.7
	380V (A)		151.1	193.0	214.0	235.5	294.6	338.4	366.4	441.0	482.9	514.9	442.0	507.6	565.1	661.6
	440V (A)		130.5	166.7	184.8	203.4	254.5	292.3	316.5	380.9	417.0	444.7	381.7	438.4	488.0	571.4
Cycle	C/S		2 C/S										3 C/S			
Capacity Control	%		0 , 13% ~ 100% (STEP LESS)										0 , 10% ~ 100% (STEP LESS)			
Fan Motor	Kw		6.0	9.0	9.0	9.0	13.4	13.4	18.0	24.0	24.0	24.0	20.2	20.2	36.0	36.0
Air Volume	CMM		1,760	2,400	2,400	2,400	3,600	3,600	4,200	4,480	5,600	5,600	5,400	5,400	6,000	6,000
Water Flow Rate	m³/hr		39.6	50.6	58.0	64.2	80.7	94.5	101.3	120.8	134.1	144.4	121.0	141.7	151.9	181.3
Chilled Water Pipe	inch		4"	5"	5"	5"	5"	5"	6"	6"	6"	8"	6"	8"	8"	10"
Pressure Drop	mAq		3.5	3.6	3.8	3.9	4.4	4.5	4.8	4.8	4.9	5.5	5.5	6.1	7.0	7.3
Size	Length	mm	4,315	4,315	4,315	4,315	6,120	6,120	6,820	7,780	8,420	8,420	8,970	8,970	8,370	8,370
	Width	mm	2,040	2,040	2,040	2,040	2,180	2,180	2,300	2,300	2,300	2,300	2,180	2,180	2,300	2,300
	Height	mm	2,040	2,390	2,390	2,390	2,390	2,390	2,595	2,570	2,670	2,775	2,415	2,415	2,778	2,976
Weight	kg		2,610	2,950	3,170	3,200	3,980	4,150	4,850	5,650	6,110	6,320	6,880	7,250	7,750	7,980
Running Weight	kg		2,890	3,250	3,490	3,540	4,340	4,530	5,250	6,070	6,550	6,780	7,360	7,750	8,280	8,530

R-407C SPEC M-SERIES 50Hz

MODEL			SM 80T2	SM 100T2	SM 120T2	SM 140T2	SM 160T2	SM 180T2	SM 200T2	SM 230T2	SM 250T2	SM 300T2	SM 240T3	SM 270T3	SM 300T3	SM 350T3
SECTION																
Capacity	USRT		54.6	69.7	79.9	88.5	111.1	130.2	139.5	166.5	184.7	199.0	166.7	195.3	209.3	249.8
	kW		192.0	245.2	280.9	311.3	390.8	457.8	490.6	585.5	649.5	699.6	586.2	686.6	736.0	878.3
Power Input	kW		73.3	93.7	103.9	114.3	143.0	164.3	177.9	214.1	234.4	249.9	214.5	246.4	274.3	321.1
COP	-		2.6	2.6	2.7	2.7	2.7	2.8	2.8	2.7	2.8	2.8	2.7	2.8	2.7	2.7
Current (RLA)	380V (A)		125.9	160.8	178.4	196.3	245.5	282.0	305.4	367.5	402.4	429.1	368.3	423.0	470.9	551.3
	400V (A)		119.6	152.8	169.4	186.5	233.3	267.9	290.1	349.2	382.3	407.6	349.9	401.9	447.4	523.7
	415V (A)		11.5	14.7	16.3	18.0	22.5	25.8	28.0	33.7	36.8	39.3	33.7	38.7	43.1	50.5
Cycle	C/S		2 C/S										3 C/S			
Capacity Control	%		0 , 13% ~ 100% (STEP LESS)										0 , 10% ~ 100% (STEP LESS)			
Fan Motor	Kw		5.0	7.5	7.5	7.5	11.2	11.2	15.0	20.0	20.0	20.0	16.8	16.8	30.0	30.0
Air Volume	CMM		1,530	2,090	2,090	2,090	3,130	3,130	3,650	3,900	4,870	4,870	4,700	4,700	5,220	5,220
Water Flow Rate	m³/hr		33.0	42.2	48.3	53.5	67.2	78.7	84.4	100.7	111.7	120.3	100.8	118.1	126.6	151.1
Chilled Water Pipe	inch		4"	5"	5"	5"	5"	5"	6"	6"	6"	8"	6"	8"	8"	10"
Pressure Drop	mAq		3.0	3.1	3.3	3.4	3.8	3.9	4.2	4.2	4.3	4.8	4.8	5.3	6.1	6.3
Size	Length	mm	4,315	4,315	4,315	4,315	6,120	6,120	6,820	7,780	8,420	8,420	8,970	8,970	8,370	8,370
	Width	mm	2,040	2,040	2,040	2,040	2,180	2,180	2,300	2,300	2,300	2,300	2,180	2,180	2,300	2,300
	Height	mm	2,040	2,390	2,390	2,390	2,390	2,390	2,595	2,570	2,670	2,775	2,415	2,415	2,778	2,976
Weight	kg		2,610	2,950	3,170	3,200	3,980	4,150	4,850	5,650	6,110	6,320	6,880	7,250	7,750	7,980
Running Weight	kg		2,890	3,250	3,490	3,540	4,340	4,530	5,250	6,070	6,550	6,780	7,360	7,750	8,280	8,530

Standard Specifications

Refrigerant R-407C

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

Condenser Temp 50°C (Ambient Temp 35°C)

R-407C SPEC M-SERIES 60Hz

MODEL			SM 160T4	SM 200T4	SM 240T4	SM 280T4	SM 320T4	SM 360T4	SM 400T4	SM 460T4	SM 500T4	SM 200T5	SM 250T5	SM 300T5	SM 350T5	SM 400T5
SECTION																
Capacity	USRT		131.0	167.3	191.7	212.5	266.7	312.4	334.9	399.6	443.3	163.8	209.2	239.6	265.6	333.4
	kW		460.7	588.4	674.1	747.1	937.9	1,098.6	1,177.5	1,405.2	1,558.8	575.9	735.5	842.6	933.8	1,172.4
Power Input	kW		176.0	224.8	249.3	274.4	343.2	394.2	438.9	513.8	586.5	220.0	281.1	311.7	343.0	429.1
Cop	-		2.6	2.6	2.7	2.7	2.7	2.8	2.7	2.7	2.7	2.6	2.6	2.7	2.7	2.7
Current (RLA)	220V (A)		522.0	666.8	739.4	813.7	1017.9	1169.0	1301.4	1523.6	-	652.5	833.5	924.2	1017.1	1272.3
	380V (A)		302.2	386.0	428.1	471.1	589.3	676.8	753.5	882.1	1006.9	377.7	482.5	535.1	588.8	736.6
	440V (A)		261.0	333.4	369.7	406.8	508.9	584.5	650.7	761.8	869.6	326.2	416.7	462.1	508.5	636.2
Cycle	C/S		4 C/S										5 C/S			
Capacity Control	%		0 , 8% ~ 100% (STEP LESS)										0 , 5% ~ 100% (STEP LESS)			
Fan Motor	Kw		12.0	17.9	17.9	17.9	26.9	26.9	48.0	48.0	72.0	15.0	22.4	22.4	22.4	33.6
Air Volume	CMM		1,760	2,400	2,400	2,400	3,600	3,600	4,200	4,480	5,600	5,600	5,400	5,400	6,000	6,000
Water Flow Rate	m³/hr		79.2	101.2	115.9	128.5	161.3	189.0	202.5	241.7	268.1	99.1	126.5	144.9	160.6	201.7
Chilled Water Pipe	inch		5"	6"	6"	8"	8"	10"	10"	10"	10"	6"	6"	8"	10"	10"
Pressure Drop	mAq		4.9	5.5	5.9	6.4	6.9	7.1	7.3	7.5	7.8	6.9	7.1	7.2	7.5	7.9
Size	Length	mm	8,445	8,075	8,075	8,075	11,475	11,475	10,675	10,675	16,075	8,100	8,100	8,100	8,100	11,500
	Width	mm	2,040	2,040	2,040	2,040	2,180	2,180	2,300	2,300	2,300	2,040	2,040	2,040	2,040	2,180
	Height	mm	2,040	2,390	2,390	2,390	2,390	2,390	2,778	2,976	2,778	2,040	2,390	2,390	2,390	2,390
Weight	kg		5,630	6,050	6,400	6,480	7,560	8,105	8,650	8,980	10,750	7,040	7,560	8,000	8,100	9,450
Running Weight	kg		6,100	6,540	6,910	7,010	8,110	8,675	9,240	9,590	11,300	7,690	8,230	8,690	8,830	10,750

R-407C SPEC M-SERIES 50Hz

MODEL			SM 160T4	SM 200T4	SM 240T4	SM 280T4	SM 320T4	SM 360T4	SM 400T4	SM 460T4	SM 500T4	SM 200T5	SM 250T5	SM 300T5	SM 350T5	SM 400T5
SECTION																
Capacity	USRT		109.2	139.5	159.8	177.1	222.3	260.4	279.1	333.0	369.4	136.5	174.3	199.7	221.3	277.9
	kW		383.9	490.4	561.8	622.6	781.6	915.5	981.3	1,171.0	1,299.0	479.9	613.0	702.2	778.2	977.0
Power Input	kW		146.7	187.4	207.8	228.7	286.0	328.5	365.7	428.2	488.8	183.4	234.2	259.7	285.8	357.6
COP	-		2.6	2.6	2.7	2.7	2.7	2.8	2.7	2.7	2.7	2.6	2.6	2.7	2.7	2.7
Current (RLA)	380V (A)		251.8	321.7	356.7	392.6	491.1	564.0	627.9	735.1	839.1	314.8	402.1	445.9	490.7	613.8
	400V (A)		239.2	305.6	338.9	372.9	466.5	535.8	596.5	698.3	797.2	299.0	382.0	423.6	466.2	583.2
	415V (A)		230.6	294.6	326.6	359.4	449.7	516.4	574.9	673.1	768.3	288.2	368.2	408.3	449.3	562.1
Cycle	C/S		4 C/S										5 C/S			
Capacity Control	%		0 , 8% ~ 100% (STEP LESS)										0 , 5% ~ 100% (STEP LESS)			
Fan Motor	Kw		10.0	14.9	14.9	14.9	22.4	22.4	40.0	40.0	60.0	12.5	18.7	18.7	18.7	28.0
Air Volume	CMM		1,530	2,090	2,090	2,090	3,130	3,130	3,650	3,900	4,870	4,870	4,700	4,700	5,220	5,220
Water Flow Rate	m³/hr		66.0	84.3	96.6	107.1	134.4	157.5	168.8	201.4	223.4	82.5	105.4	120.8	133.9	168.0
Chilled Water Pipe	inch		5"	6"	6"	8"	8"	10"	10"	10"	10"	6"	6"	8"	10"	10"
Pressure Drop	mAq		4.3	5.0	5.4	5.8	6.3	6.5	6.6	6.8	7.1	6.3	6.5	6.5	6.8	7.2
Size	Length	mm	8,445	8,075	8,075	8,075	11,475	11,475	10,675	10,675	16,075	8,100	8,100	8,100	8,100	11,500
	Width	mm	2,040	2,040	2,040	2,040	2,180	2,180	2,300	2,300	2,300	2,040	2,040	2,040	2,040	2,180
	Height	mm	2,040	2,390	2,390	2,390	2,390	2,390	2,778	2,976	2,778	2,040	2,390	2,390	2,390	2,390
Weight	kg		5,630	6,050	6,400	6,480	7,560	8,105	8,650	8,980	10,750	7,040	7,560	8,000	8,100	9,450
Running Weight	kg		6,100	6,540	6,910	7,010	8,110	8,675	9,240	9,590	11,300	7,690	8,230	8,690	8,830	10,750

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 : ALSTON 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).

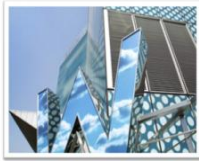


FIELD INSTALLED

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 : YEOSU IN KOREA
CONTRACTOR : SC 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



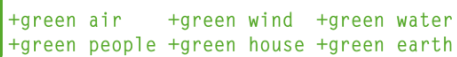
AIR COOLED CHILLER (5CS)



CONDENSING (AIR)



HEAT EXCHANGER



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주식회사

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