



SARMAAFARIN

AEROACOUSTIC



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General Catalogue

09CDF 09XD	Air Cooled Condenser	
	Air Cooled Condenser (Flat-Type)	2
	Air Cooled Condenser (V-Type)	3
16DNS 16DES 16JBP 16JBP	Absorption Chiller	
	Double Effect – Direct Fired Absorption Chiller	4
	Double Effect – Steam Absorption Chiller	5
	Single Effect – Steam/hot Water Absorption Chiller	6
	Single Effect – Warm Water Absorption Chiller	7
30RAN 30XD 30HA 30H(L/S)P	Air Cooled Liquid Chiller	
	Air Cooled Scroll Compressor Liquid Chiller	8
	Air Cooled Screw Compressor Liquid Chiller	9
	Screw Compressor Liquid Chiller (condenser-less)	10
	Reciprocating Compressor Liquid Chiller (condenser-less)	11
30HC 30H(K/R)P	Water Cooled Liquid Chiller	
	Water Cooled Screw Compressor Liquid Chiller	12
	Water Cooled Reciprocating Compressor Liquid Chiller	13
39HX 39FD 40RM(S)	Air Handling Unit	
	Double Skin Air Handling Unit(2 Inch Insulation)	14
	Double Skin Air Handling Unit(1 Inch Insulation)	15
	Single Skin Air Handling Unit	16
42GT 42NZ 42NF 42AB 42AC 42HB 42HC 42HA	Room Fan Coil Unit	
	4-Way Cassette-type Fan Coil	17
	Decorative Room Fan Coil - Exposed	18
	Decorative Room Fan Coil - Concealed	19
	Room Fan Coil - Floor Mounted - Top Discharge - Exposed	20
	Room Fan Coil - Floor Mounted - Front Discharge - Exposed	21
	Room Fan Coil - Ceiling Mounted - Exposed	22
	Room Fan Coil - Ceiling Mounted - Concealed (with Plenum)	23
	Room Fan Coil - Ceiling Mounted - Concealed - Compact	24
42DE 42DC	Ducted Fan Coil	
	Ducted Fan Coil - Exposed	25
	Ducted Fan Coil - Concealed	26
38XD 38AK 38AKS	Condensing Unit	
	Air Cooled Screw Compressor Condensing Unit	27
	Air Cooled Scroll Compressor Condensing Unit	28
	Air Cooled Reciprocating Compressor Condensing Unit	29
50ZA(S) 50DA(S) 50BBS	Cooling Packaged Unit	
	Air Cooled Scroll/Reciprocating Compressor Double Skin Cooling Package Unit	30
	Air Cooled Reciprocating/Scroll Compressor Single Skin Cooling Packaged Unit	31
	Air Cooled Scroll Compressor Cooling Packaged Unit (condenser-less)	32
SAFCT HCC	Cooling Tower	
	Fiberglass Body Cooling Tower	33
	Galvanized Body Cooling Tower With Centrifugal Fan	34
Monitoring	REMOTE MONITORING SYSTEM	
	Remote Monitoring System	35

09CDF

Air Cooled Condenser (Flat Type)

Capacity: 11 to 130 Ton(39 to 458 kWR)



Features:

- Available in 21 different sizes
- R-134a Refrigerant
- Refrigerant R-407C & R-22 (option)
- Vertical/Horizontal installation
- Direct driven axial fan(s)
- Options of aluminum, copper or anti corrosion coated fin

Model 09CDF	Cooling Capacity		Power Input	No. Of Fans	Weight (kg)		Dimensions (mm)		
	ton	kWR	kW		AL fin	Cu fin	L	W	H
01MS2	11.1	39	2.06	1	149	196	1577	1207	1359
01MS3	14.7	51.7	2.06	1	162	209	1577	1207	1359
01MS4	16.2	57	2.06	1	177	237	1577	1207	1359
02MS2	22.8	80.2	4.12	2	348	435	2787	1207	1359
02MS3	29.1	102.3	4.12	2	378	496	2731	1207	1359
02MS4	32.5	114.3	4.12	2	411	556	2731	1207	1359
03MS2	34.2	120.3	6.18	3	564	712	3924	1207	1359
03MS3	43.6	153.3	6.18	3	612	800	3924	1207	1359
03MS4	48.8	171.6	6.18	3	665	841	3924	1207	1359
04MS2	45.7	160.7	8.24	4	613	776	5131	1207	1359
04MS3	58.2	204.7	8.24	4	667	876	5131	1207	1359
04MS4	65	228.6	8.24	4	725	981	5131	1207	1359
04MD2*	45.7	160.7	8.24	4	631	825	2731	2350	1359
04MD3*	58.2	204.7	8.24	4	685	929	2731	2350	1359
04MD4*	65	228.6	8.24	4	745	1039	2731	2350	1359
06MD2*	68.6	241.3	12.36	6	894	1168	3924	2350	1359
06MD3*	87.2	306.7	12.36	6	972	1316	3924	2350	1359
06MD4*	97.6	343.2	12.36	6	1056	1474	3924	2350	1359
08MD2*	91.4	321.4	16.48	8	1157	1505	5131	2350	1359
08MD3*	116.3	409	16.48	8	1258	1694	5131	2350	1359
08MD4*	130.2	457.9	16.48	8	1367	1895	5131	2350	1359

Note:

Capacity is based on AHRI460, R-134a, Entering air temp. 95 °F, altitude 0 ft, $\Delta t=30^{\circ}\text{F}$ where Δt is difference between condensing temperature and entering air temperature.

*Double circuit models

09XD

Air Cooled Condenser (V-Type)

Capacity: 43 to 347 Ton (151 to 1220 kWR)



Features:

- Available in 11 different sizes
- R-134a Refrigerant
- Refrigerant R22 & R407C (option)
- Direct driven axial fan(s)
- Options of aluminum, copper or anti corrosion coated fin

Model 09XD	Cooling Capacity		Power Input	No. Of Fans	Weight (kg)		Dimensions (m)		
	TONS	kWR	kW		Al fin	Cu fin	L	W	H
02MS4	43.4	152.6	4.12	2	521	551	1.3	2.3	2
04MS4	86.8	305.3	8.24	4	848	908	2.5	2.3	2
06MS4	130.2	457.9	12.36	6	1369	1459	3.7	2.3	2
08MS4	173.6	610.5	16.48	8	1696	1816	4.9	2.3	2
04MD4*	86.8	305.3	8.24	4	848	908	2.5	2.3	2
06MD4*	130.2	457.9	12.36	6	1369	1459	3.7	2.3	2
08MD4*	173.6	610.5	16.48	8	1696	1816	4.9	2.3	2
10MD4*	217.0	763.1	20.6	10	2217	2367	6.1	2.3	2
12MD4*	260.4	915.8	24.72	12	2738	2918	7.3	2.3	2
14MD4*	303.8	1068.4	28.84	14	3065	3275	8.5	2.3	2
16MD4*	347.2	1221.0	32.96	16	3392	3632	9.7	2.3	2

Note:

Capacity is based on AHRI460, R-134a, Entering air temp. 95 °F, altitude 0 ft, $\Delta t=30^{\circ}\text{F}$ where Δt is difference between condensing temperature and entering air temperature.

*Double circuit models

16DNS

Double Effect – Direct Fired Absorption Chiller

Cooling Capacity: 40 to 1000 Ton (141 to 3517 kWR)



Features:

- Double Effect-Direct Fired chiller
- Environmentally friendly chiller, No CFC
- Enhanced part load design and energy efficient operation
- Automatic multiple protection from crystallization
- Operates as chiller or heater
- Applicable to multiple kinds of fuel – light oil, heavy fuel oil, natural gas

Model 16DNS	Cooling Capacity		Weight		Dimensions (mm)		
	ton	kWR	lb	kg	L	W	H
004	40	141	5952	2700	2079	1490	1852
005	50	176	6393	2900	2079	1490	1852
006	60	211	6834	3100	2079	1490	1852
007	70	246	7716	3500	2476	1699	1852
008	80	281	8157	3700	2476	1699	1852
010	100	352	12787	5800	2814	2161	2137
013	130	457	14330	6500	3410	2161	2137
015	150	527	16314	7400	3850	2200	2300
018	180	633	17857	8100	4350	2200	2300
021	210	739	19401	8800	3870	2370	2410
024	240	844	20062	9100	4370	2370	2410
028	280	985	23149	10500	5020	2570	2440
032	320	1125	25574	11600	5520	2570	2440
036	360	1266	26676	12100	5025	2635	2550
040	400	1407	27999	12700	5525	2635	2550
045	450	1583	29321	13300	5150	2650	2550
050	500	1759	31085	14100	5610	2650	2550
055	550	1934	45636	20700	5060	3010	3000
060	600	2110	49383	22400	5600	3010	3000
070	700	2462	52249	23700	6100	3010	3000
080	800	2814	64816	29400	5710	3400	3610
090	900	3165	70107	31800	6210	3400	3610
100	1000	3517	75618	34300	6730	3400	3610

Note:

Capacity is based on ARI560, 53.6/44.6 °F chilled water; 129.2/140 °F hot water; 90 °F cooling water; fouling factor 0.00025 ft²hr °F/Btu for absorber and condenser, 0.0001 ft²hr °F/Btu for evaporator.

16DES

Double Effect-Steam Fired Absorption Chiller

Cooling Capacity: 80 to 1000 Ton (141 to 3517 kWR)



Features:

- Double Effect-Steam Chiller
- Environmentally Friendly Chiller, No CFC
- Automatic multiple protection from crystallization
- Carrier patented automatic injector purge system

Model 16DES	Cooling Capacity		Weight		Dimensions (mm)		
	ton	kWR	lb	kg	L	W	H
008	80	281	9900	4500	2743	1825	2231
010	100	352	10780	4900	2874	1976	2270
013	130	457	11220	5100	3374	1976	2270
015	150	528	13640	6200	3858	1929	2297
018	180	633	14300	6500	4357	1929	2297
021	210	739	17600	8000	3925	2219	2407
024	240	844	18260	8300	4425	2219	2407
028	280	985	21120	9600	5046	2152	2465
032	320	1125	22220	10100	5546	2152	2465
036	360	1266	26620	12100	5038	2290	2560
040	400	1407	27500	12500	5388	2290	2560
045	450	1583	29260	13300	5600	2500	2560
050	500	1759	31140	13700	5600	2660	2560
055	550	1934	40480	18400	5600	2660	3010
060	600	2110	43780	19900	5600	2760	3010
070	700	2462	46640	21200	6100	2760	3010
080	800	2814	57420	26100	5730	2830	3420
090	900	3165	61820	28100	6230	2830	3420
100	1000	3517	66440	30200	6750	2830	3420
110	1100	3869	78760	35800	6180	3030	3600
120	1200	4220	83600	38000	6700	3030	3600
130	1300	4572	88440	40200	7180	3030	3600
140	1400	4924	97900	44500	6840	3280	3660
150	1500	5276	102960	46800	7340	3280	3660

Note:

Capacity is based on ARI560, 53.6/44.6 °F chilled water; 129.2/140 °F hot water; 90 °F cooling water; fouling factor 0.00025 ft²hr °F/Btu for absorber and condenser, 0.0001 ft²hr °F/Btu for evaporator.

16JBP

Single Effect-Steam/Hot Water Absorption Chiller

Cooling Capacity: 100 to 815 Ton (350 to 2852 kWR)



Features:

- Single Effect-Steam Chiller / Hot Water Chiller
- Environmentally Friendly Chiller, No CFC
- Automatic Purge System
- PLC Control

Model 16JBP	Cooling Capacity		Weight		Dimensions (mm)		
	ton	kWR	lb	kg	L	W	H
010	100	352	10229	4640	5105	1120	2230
012	116	408	10441	4736	5105	1120	2230
014	132	464	10679	4844	5105	1120	2230
018	174	612	12469	5656	5105	1350	2390
021	201	707	16151	7326	5105	1350	2390
024	233	820	17599	7983	5160	1550	2540
028	270	950	18320	8310	5160	1550	2540
032	312	1097	23029	10446	5130	1930	3110
036	349	1227	23530	10673	5030	1930	3110
041	397	1396	29240	13263	5130	2260	3505
047	455	1600	30119	13662	5130	2260	3505
054	490	1723	35340	16030	6605	1930	3605
057	522	1836	36391	16507	6605	1930	3605
061	562	1977	42639	19341	6605	2230	4020
068	618	2174	43700	19822	6605	2230	4020

Note:

Capacity is based on ARI560, 54/44 °F chilled water; 85 °F cooling water; steam at 12 psig; fouling factor 0.00025 ft²hr °F/Btu for absorber and condenser, 0.0001 ft²hr °F/Btu for evaporator.

16JBP

Single Effect - Warm Water Absorption Chiller

Cooling Capacity: 50 to 522 Ton (176 to 1836 kWR)



Features:

- Single Effect - Warm Water Chiller
- Environmentally Friendly Chiller, No CFC
- Automatic Purge System
- PLC Control

Model 16JBP	Cooling Capacity		Weight		Dimensions (mm)		
	ton	kWR	lb	kg	L	W	H
005/021	50	176	9054	4107	2808	1120	2298
007/021	58	204	9239	4191	2808	1120	2298
007/028	66	232	9453	4288	2808	1120	2394
010/021	100	352	12628	5728	5500	1189	2298
014/021	116	408	12915	5858	5500	1189	2298
014/028	132	464	14032	6365	5500	1189	2394
021/028	174	612	17198	7801	5212	1378	2496
021/036	201	707	18344	8321	5212	1527	2560
028/036	233	820	21032	9540	5144	1647	2764
028/047	270	950	21680	9834	5244	1667	2855
036/047	312	1097	25434	11537	5296	2158	3186
036/057	349	1227	26839	12174	5296	2158	3205
036/068	397	1396	27350	12406	5296	2158	3205
047/057	455	1600	33935	15393	5344	2237	3737
047/068	490	1723	34445	15624	5344	2237	3737
057/068	522	1836	39134	17751	6719	1960	3609

Note:

Capacity is based on ARI560, 54/44 °F chilled water; 179/194 °F warm water; 85 °F cooling water; fouling factor 0.00025 ft²hr °F/Btu for absorber and condenser, 0.0001 ft²hr °F/Btu for evaporator.

30RAN

Air Cooled Scroll Compressor Liquid Chiller

Cooling Capacity: 30 to 133 Ton (106 to 467 kWR)



Features:

- R-134a and R-407C refrigerant
- Scroll compressors in two independent refrigerant circuits
- Air cooled fin & tube condenser with continuous capacity control*
- Available with both shell&tube and brazed plate evaporator
- PLC control
- Option of aluminum, copper or Anti-corrosion coated fin
- Option of new axial fan diffuser leading to fan efficiency improvement, and thus noise emission reduction
- Compatible with all ambient conditions
- Remote Monitoring System

Model 30RAN (BPHE Cooler) R134a	Cooling Capacity		Comp. Power Input	Weight		Dimensions (m)		
	TONS	kWR	kW	lb	kg	L	W	H
60-415	30.2	106.4	32.5	2516	1141	1.5	2.3	2.6
80-415	40.5	142.4	39.6	3402	1543	2.7	2.3	2.6
100-415	50.6	178.0	51.2	3766	1708	2.7	2.3	2.6
120-415	59.2	208.2	65.1	4198	1904	2.7	2.3	2.6
150-415	71.6	252.0	85.5	4611	2092	2.7	2.3	2.6
180-415	89.9	316.2	97.2	5738	2603	3.9	2.3	2.6

Model 30RAN (BPHE Cooler) R407C	Cooling Capacity		Comp. Power Input	Weight		Dimensions (m)		
	TONS	kWR	kW	lb	kg	L	W	H
60-415	48.3	169.8	44.8	2912	1321	2.7	2.3	2.6
80-415	59.4	208.8	63	3402	1543	2.7	2.3	2.6
100-415	72.0	253.2	84.4	3766	1708	2.7	2.3	2.6
120-415	89.2	313.8	94.5	5053	2292	3.9	2.3	2.6
150-415	106.8	375.6	126	5457	2475	3.9	2.3	2.6
180-415	132.7	466.8	148.2	6592	2990	5.1	2.3	2.6

Model 30RAN (Shell & Tube Cooler) R134a	Cooling Capacity		Comp. Power Input	Weight		Dimensions (m)		
	TONS	kWR	kW	lb	kg	L	W	H
80-70	43.8	154.0	40.2	4188	1900	2.7	2.3	2.6
100-70	52.1	183.2	51.4	4463	2024	2.7	2.3	2.6
120-70	59.7	210.0	65.1	4894	2220	2.7	2.3	2.6
150-120	74.2	261.0	86.4	5778	2621	2.7	2.3	2.6
180-120	91.4	321.6	97.5	6904	3131	3.9	2.3	2.6

Model 30RAN (Shell & Tube Cooler) R407C	Cooling Capacity		Comp. Power Input	Weight		Dimensions (m)		
	TONS	kWR	kW	lb	kg	L	W	H
80-70	60.0	211.2	63.6	4188	1900	2.7	2.3	2.6
100-70	69.3	243.6	84	4463	2024	2.7	2.3	2.6
120-70	85.0	298.8	93.9	5751	2609	3.9	2.3	2.6
150-120	104.4	367.2	126	6625	3005	3.9	2.3	2.6
180-120	126.6	445.2	147	7761	3520	5.1	2.3	2.6

Note:

-Capacity is based on AHRI550/590, 54/44 °F chilled water and 95 °F condenser entering air temperature; fouling factor 0.000018 m² °C/W for evaporator.

*Air cooled condensers are equipped with AC type electromotor including inverter in control panel.

30XD

Air Cooled Screw Compressor Liquid Chiller

Cooling Capacity: 35 to 375 Ton (123 to 1320 kW)



Model 30XD	Cooling Capacity		Power Input	Weight		Dimensions (m)		
	ton	kWR	kW	lb	kg	L	W	H
60-40	35	123	37	5640	2558	3.2	2.3	2.6
80-40	46	163	51	6356	2883	3.2	2.3	2.6
100-70	62	217	61	7028	3188	3.2	2.3	2.6
120-70	70	246	72	8690	3942	4.4	2.3	2.6
140-160	84	294	85	9510	4314	4.4	2.3	2.6
160-160	100	351	103	10855	4924	5.6	2.3	2.6
180-160	113	396	117	11865	5382	5.6	2.3	2.6
200-200	126	443	125	12953	5876	6.8	2.3	2.6
220-200	135	475	133	12975	5886	6.8	2.3	2.6
235-200	143	503	138	14008	6354	8	2.3	2.6
250-220	152	535	148	14363	6515	8	2.3	2.6
265-220	157	556	160	14385	6525	8	2.3	2.6

Features:

- R-134a refrigerant
- Refrigerant R-407C (option)
- Screw compressors in two independent refrigerant circuits
- Air cooled fin & tube condenser with continuous capacity control*
- PLC control
- Option of aluminum, copper or anti corrosion coated fin
- Option of new axial fan diffuser leading to fan efficiency improvement, and thus noise emission reduction
- Option of compressor soundproof box designed to reduce the noise of compressors
- Compatible with standard (S series) and tropical (T series) ambient conditions
- Remote Monitoring System

Note:

Capacity is based on AHRI550/590, 54/44 °F chilled water; condenser entering air temperature: 95 °F in S series & 125 °F in T series; fouling factor 0.000018 m² °C/W for evaporator.

*Air cooled condensers are equipped with AC type electromotor including inverter in control panel.

Standard Series								
280-220S	177	623	177	15572	7064	9.2	2.3	2.6
300-220S	192	677	212	17487	7932	10.4	2.3	2.6
320-300S	219	771	215	19500	8844	10.4	2.3	2.6
340-300S	228	800	223	20950	9503	11.6	2.3	2.6
360-300S	244	859	233	21982	9971	12.8	2.3	2.6
390-300S	258	907	254	22115	10031	12.8	2.3	2.6
420-300S	272	955	275	22248	10092	12.8	2.3	2.6
420-380S	296	1041	273	24945	11315	15.2	2.3	2.6
450-380S	312	1096	293	24990	11335	15.2	2.3	2.6
480-380S	327	1150	313	25035	11356	15.2	2.3	2.6
520-380S	340	1194	332	26242	11903	16.4	2.3	2.6
560-380S	352	1238	350	27450	12451	17.6	2.3	2.6
600-380S	364	1279	366	27540	12492	17.6	2.3	2.6
640-380S	375	1320	381	27628	12532	17.6	2.3	2.6

Tropical Series								
280-220T	129	452	246	14905	6761	8	2.3	2.6
300-220T	140	491	258	16322	7404	9.2	2.3	2.6
320-300T	158	556	276	19343	8774	10.4	2.3	2.6
340-300T	169	595	285	20795	9433	11.6	2.3	2.6
360-300T	182	640	298	21828	9901	12.8	2.3	2.6
390-300T	193	678	328	21961	9961	12.8	2.3	2.6
420-300T	204	716	357	22095	10022	12.8	2.3	2.6
420-380T	218	767	360	22770	10328	12.8	2.3	2.6
450-380T	232	817	381	23825	10807	14	2.3	2.6
480-380T	246	867	402	24880	11286	15.2	2.3	2.6
520-380T	252	887	429	25077	11375	15.2	2.3	2.6
560-380T	258	908	456	25275	11464	15.2	2.3	2.6
600-380T	271	954	471	26375	11963	16.4	2.3	2.6
640-380T	284	1000	486	27475	12462	17.6	2.3	2.6

30HA

Air Cooled Screw Compressor Liquid Chiller (condenser-less)

Cooling Capacity: 36 to 378 Ton (126 to 1329 kWR)



Features:

- R-134a Refrigerant
- Refrigerant R-407C (option)
- Screw Compressors in two independent refrigerant circuits
- Condenser less, suitable to use with SSI 09CDF and 09XD series Air cooled condenser
- PLC Control
- Very Compact design, less Space for Installation
- Compatible with standard (S Series) and tropical (T series) ambient conditions
- Remote Monitoring System

Model 30HA	Cooling Capacity		Power Input	Weight		Dimensions (m)		
	ton	kWR	kW	lb	kg	L	W	H
60-40	36	126	38	3715	1685	2.6	1.2	1.7
80-40	47	166	52	4431	2010	2.6	1.2	1.7
100-70	62	220	62	4468	2027	2.8	1.3	1.7
120-70	71	248	75	5120	2323	3.1	1.3	1.7
140-160	84	297	85	6068	2752	3.3	1.4	1.7
160-160	100	353	103	7412	3362	3.5	1.4	1.7
180-160	113	399	117	7412	3362	3.5	1.4	1.7
200-200	123	434	125	8183	3712	3.6	1.8	2.1
220-200	132	463	133	8205	3722	3.6	1.8	2.1
235-200	137	483	141	8227	3732	3.6	1.8	2.1
250-220	152	534	150	8585	3894	3.6	1.8	2.1
265-220	161	566	161	8607	3904	3.6	1.8	2.1

Standard Series

280-220S	178	626	185	8805	3989	3.7	2	2.1
300-220S	191	672	201	10591	4798	4.6	1.9	2.2
320-300S	217	762	219	13154	5959	5.7	1.9	2.3
340-300S	232	817	232	13176	5969	5.7	1.9	2.3
360-300S	246	866	243	13198	5979	5.7	1.9	2.3
390-300S	262	922	264	13331	6039	5.7	1.9	2.3
420-300S	276	970	282	13464	6099	5.7	1.9	2.3
420-380S	296	1041	285	14990	6790	5.7	1.9	2.4
450-380S	314	1105	304	15035	6811	5.7	1.9	2.4
480-380S	330	1161	320	15080	6831	5.7	1.9	2.4
520-380S	341	1200	344	15277	6920	5.7	1.9	2.5
560-380S	351	1234	364	15474	7010	5.7	1.9	2.5
600-380S	365	1285	378	15563	7050	5.7	1.9	2.5
640-380S	378	1329	389	15652	7090	5.7	1.9	2.5

Tropical Series

280-220T	134	470	246	8706	3944	3.7	2	2.1
300-220T	144	505	263	10492	4753	3.7	2	2.1
320-300T	154	543	281	13055	5914	5.7	1.9	2.3
340-300T	167	586	290	13077	5924	5.7	1.9	2.3
360-300T	178	625	303	13099	5934	5.7	1.9	2.3
390-300T	191	673	332	13232	5994	5.7	1.9	2.3
420-300T	203	715	360	13365	6054	5.7	1.9	2.3
420-380T	218	767	366	14891	6745	5.7	1.9	2.4
450-380T	231	814	387	14936	6766	5.7	1.9	2.4
480-380T	243	855	406	14981	6786	5.7	1.9	2.4
520-380T	250	880	434	15178	6875	5.7	1.9	2.5
560-380T	256	901	462	15375	6965	5.7	1.9	2.5
600-380T	268	944	474	15464	7005	5.7	1.9	2.5
640-380T	279	981	486	15553	7045	5.7	1.9	2.5

Note:

Capacity is based on AHRI550/590, 54/44 °F chilled water; Standard discharge temperature: 120 °F in S and 149 °F in T series; fouling factor 0.000018 m² °C/W for evaporator.

30H(L/S)P

Reciprocating Compressor Liquid Chiller (condenser-less)

Cooling Capacity: 14 to 172 Ton (50 to 605 kWR)



Features:

- R-22 Refrigerant
- Suitable for indoor installation
- One or two independent refrigerant circuits
- Condenser less, suitable to match with SSI 09CDF and 09XD series Air Cooled Condensers
- Refrigerant R-407C & R-134a (option)
- PLC Control
- Remote Monitoring System

Model 30H(L/S)P	Cooling Capacity		Power Input	Weight		Dimensions (mm)		
	ton	kWR	kW	lb	kg	L	W	H
020	14	50	15.9	1200	544	2135	650	1220
030	21	75	23.4	1400	635	2490	650	1320
040	35	123	37.8	1896	860	2290	650	1260
050	39	137	40.5	2359	1070	2750	650	1260
060	44	155	46.6	2447	1110	2750	650	1260
070N	55	193	57.2	3483	1580	2590	1118	1312
080N	61	215	63.9	3593	1630	2590	1118	1312
090N	66	232	69.7	3593	1630	2590	1124	1312
100N	78	274	81.0	4475	2030	2850	1124	1388
110N	85	299	87.7	4541	2060	2850	1124	1504
120N	91	320	94.3	4608	2090	2850	1124	1504
140N	101	355	117.7	5291	2400	3472	1124	1579
160N	115	404	142.2	5401	2450	3472	1124	1579
200N	144.4	507.9	162.5	7209	3270	3657	1149	1589
240N	171.5	603.1	197.9	7540	3420	4311	1257	1706

Note:

Capacity is based on AHRI550/590, 54/44 °F chilled water; 120°F saturated discharge temperature; fouling factor 0.000018 m² °C/W for evaporator.

30HC

Water Cooled Screw Compressor Liquid Chiller

Cooling Capacity: 39 to 410 Ton (139 to 1442 kWR)



Features:

- R-134a Refrigerant
- Refrigerant R-407C (option)
- Screw Compressors in two independent refrigerant circuits
- Water Cooled Shell & Tube Condenser(s)
- PLC Control
- Very Compact Design, less Space for Installation
- Remote Monitoring System

Model 30HC	Cooling Capacity		Power Input	Weight		Dimensions (m)		
	ton	kWR	kW	lb	kg	L	W	H
60-40	39	139	30	4638	2104	2.6	1.7	1.9
80-40	52	181	42	5520	2504	2.8	1.7	2
100-70	69	244	51	6198	2811	2.8	1.6	1.9
120-70	79	277	61	6876	3119	3.1	1.6	1.9
140-160	95	333	70	8126	3686	3.3	1.6	2
160-160	111	391	85	9514	4316	3.5	1.6	2.1
180-160	125	440	96	9698	4399	3.5	1.6	2.1
200-200	137	481	103	11429	5184	3.6	1.8	2.8
220-200	146	514	109	11764	5336	3.6	1.8	2.8
235-200	152	536	115	12061	5471	3.6	1.8	2.8
250-220	169	594	123	12734	5776	3.6	1.8	2.8
265-220	179	629	132	12780	5797	3.6	1.8	2.8
280-220	192	676	136	12978	5879	3.7	2	2.9
300-220	207	728	147	14813	6710	4.6	1.9	2.9
320-300	238	837	161	17585	7966	5.7	1.9	3
340-300	254	893	172	17647	7994	5.7	1.9	3
360-300	268	942	182	17733	8033	5.7	1.9	3
390-300	285	1001	195	18325	8301	5.7	1.9	3
420-300	299	1052	206	18910	8566	5.7	1.9	3
420-380	321	1129	209	20490	9282	5.7	1.9	3.2
450-380	341	1198	223	20936	9484	5.7	1.9	3.2
480-380	358	1258	235	21381	9686	5.7	1.9	3.2
520-380	371	1304	255	22111	10016	5.7	1.9	3.2
260-380	382	1343	272	22838	10346	5.7	1.9	3.2
600-380	397	1396	281	22962	10402	5.7	1.9	3.2
640-380	410	1442	289	23082	10456	5.7	1.9	3.2

Note:

Capacity is based on AHRI550/590, 54/44 °F chilled water; 85/95 °F condenser water; fouling factor 0.0001 ft²hr °F/Btu for evaporator.

30H(K/R)P

Water Cooled Reciprocating Compressor Liquid Chiller

Cooling Capacity: 16 to 190 Ton (56 to 667 kWR)



Features:

- R-22 Refrigerant
- Refrigerant R-407C & R-134a (option)
- Suitable for indoor installation
- Water cooled shell & tube condenser(s)
- Factory refrigerant charged
- PLC Control
- Remote Monitoring System

Model 30H(k/R)P	Nominal Cooling Capacity		Power Input	Weight		Dimensions (mm)		
	ton	kWR	kW	lb	kg	L	W	H
020	16	56	14.3	1852	840	2135	890	1220
030	23	82	20.9	2050	930	2490	890	1320
040	39	137	34	2998	1360	2290	920	1260
050	43	151	36.5	3461	1570	2750	920	1260
060	50	176	42	3593	1630	2750	920	1260
070N	62	218	51.9	4938	2240	2590	1124	1800
080N	69	243	58.1	5137	2330	2590	1124	1800
090N	73	257	63.5	5247	2380	2590	1124	1800
100N	88	309	73.5	6393	2900	2850	1124	1975
110N	95	334	79.9	6526	2960	2850	1124	1981
120N	102	359	85.9	6658	3020	2850	1124	1981
140N	113	397	106.9	7540	3420	3472	1124	2090
160N	126	443	128.6	8003	3630	3472	1124	2090
200N	160	563	146.9	9700	4400	3657	1149	2109
240N	190	667	179.0	10362	4700	4311	1263	2109

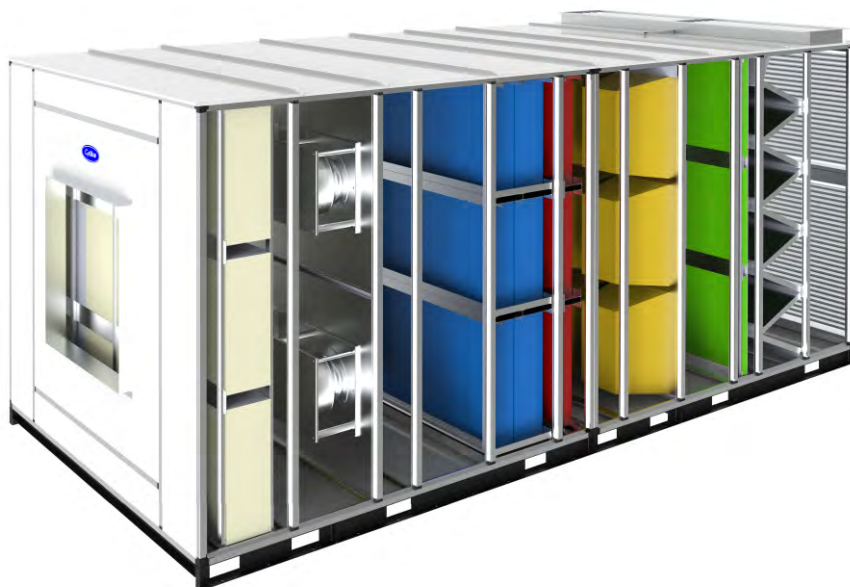
Note:

Capacity is based on AHRI550/590, 54/44 °F chilled water; 85/95 °F condenser water; fouling factor 0.0001 ft²hr °F/Btu for evaporator.

39HX

Double Skin Air Handling Unit (2 Inch Insulation)

3000 to 73500 cfm



Features:

- Curved shape and continuous-single profile of casing which makes cleaning easier, reduces the accumulation of particles, and reduces leakage.
- Plug fans which eliminate belt abrasion and make cleaning easier.
- Steam humidifiers in order to meet hygiene criteria.
- Stainless steel for internal surfaces(option)
- Multiple stages of filtration which ensures the minimum presence of particles and contaminants in supply air.
- For Extended Hygiene Requirements, a stage of HEPA filters is included in the unit.
- Remote Monitoring System

Note:

Housing Construction is based on RS 6/C/011-2017 that meets hygiene criteria.

Rating and Performance data for the unit, sections, and components are in accordance with EN13053.

Model 39HX	Air Delivery (m ³ /h) Unit Face Velocity: 4 (m/s)	Dimensions	
		Height (mm)	Width (mm)
22	3000	670	670
23	4500	670	985
33	6900	985	985
34	9300	985	1300
35	11700	985	1615
44	12600	1300	1300
45	15800	1300	1615
46	19100	1300	1930
47	22300	1300	2245
55	19900	1615	1615
56	24000	1615	1930
57	28100	1615	2245
66	28900	1930	1930
67	33900	1930	2245
68	38800	1930	2560
77	39600	2245	2245
97	56900	2245	3190
98	65200	2560	3190
99	73500	2875	3190

39FD

Double Skin Air Handling Unit (1 Inch Insulation)

Max Air Delivery: 1470 to 58170 cfm



Features:

- Available in 26 different sizes
- Double skin 25mm thick panels
- Draw throw / blow throw
- Single / multi zone
- Sectional and modular arrangement with configuration choices
- Forward, backward & air foil centrifugal fans
- Chilled water coil 4/6/8 row intertwined arrangement
- DX Coil/Hot Water Coil/Electrical Heating/ Humidifiers/ Sound Attenuators
- Key applications-offices, educational Institutes, hospitals, hotels, commercial buildings
- Option of Anti Corrosion Coated fin
- Remote Monitoring System

Model 39FD	Air Delivery (cfm)*	Coil Face Area (sq.ft)	Dimensions (mm)	
			Height (mm)	Width (mm)
230	2730	3.9	680	995
240	3920	5.6	680	1310
330	4060	5.8	995	995
340	5810	8.3	995	1310
350	7560	10.8	995	1625
360	9450	13.5	995	1940
440	7770	11.1	1310	1310
450	10080	14.4	1310	1625
460	12670	18.1	1310	1940
470	14980	21.4	1310	2255
560	15820	22.6	1625	1940
570	18690	26.7	1625	2255
580	21910	31.3	1625	2570
670	24360	34.8	1940	2255
680	28240	40.6	1940	2570
780	32830	46.9	2255	2570
7100	41580	59.4	2255	3200
8100	47110	67.3	2570	3200
10100	58170	83.1	3200	3200

*Limits of air-delivery depend on maximum air velocity (700 fpm).

40RM(S)

Single Skin Air Handling Unit

Air Delivery: 2400 to 12000 cfm



Features:

- Single Skin Packaged Air Handler
- 10 mm insulation
- Vertical/Horizontal installation
- Flexibility to choose 3 or 4 row coil to suit application
- Chilled water cooling coil
- Hot water/Steam/Electric heating coil
- Cleanable Filters
- Belt-Pulley Driven Centrifugal Fan(s)
- Option of Aluminum or Copper Fin

Model 40RM(S)	Air Flow (cfm)	Weight (3 Row)		Dimensions (mm)		
		lb	kg	L	W	H
008	3000	385	175	1244	714	1424
012	4000	405	184	1244	714	1424
014	5000	670	304	2261	716	1424
016	6000	685	311	2261	716	1424
024	8000	690	313	2261	716	1424
028	10000	1020	463	2515	829	1665
034	12000	1030	467	2515	829	1665

Features:

- Single Skin Cooling Package
- Vertical/Horizontal installation
- Flexibility to choose 3 or 4 row coil to suit application
- DX cooling coil
- Hot water/Steam/Electrical Heating coil
- Cleanable filters
- Belt-pulley driven centrifugal fan(s)
- Standard factory-installed thermostatic expansion valves (TXV) with matching 38AK, 38AKS condensing units
- Option Of aluminum or copper fin

Model 40RM	Nominal Air Flow (cfm)	Weight (3 Row)		Dimensions (mm)		
		lb	kg	L	W	H
007	2400	381	173	1244	714	1424
008	3000	385	175	1244	714	1424
012	4000	405	184	1244	714	1424
014	5000	670	304	2261	716	1424
016	6000	685	311	2261	716	1424
024	8000	690	313	2261	716	1424
028	10000	1020	463	2515	829	1665
034	12000	1030	467	2515	829	1665

42GT

4-way Cassette type Fan Coil

Air Delivery: 300 to 1200 cfm



Features:

- Beautiful and decorative appearance
- Ultra - quiet operation
- A frame made of resistant materials in two sizes
- Having single phase motor with three standard installation
- Easy installation
- Body made of high quality galvanized sheet

Model 42GT	Air Flow		Total Cooling Capacity (kW)		Total Heating Capacity (kW)		Water Flow Rate (Lit/s)		Weight		Dimensions (mm)		
	Cfm	l/s	2 Pipe	4 Pipe	2 Pipe	4 Pipe	2 Pipe	4 Pipe	lb	kg	L	W	H
0300	300	141.5	2.8	2.4	3.6	2.4	.11	.105	55.8	25.3	755*	631*	286*
0400	400	188.7	3.2	2.8	4.1	2.7	.127	.127	55.8	25.3	755*	631*	286*
0500	500	235.9	3.9	3.3	4.9	3.2	.155	.162	55.8	25.3	755*	631*	286*
0600	600	283.1	5	4.1	5.9	3.9	.2	.242	55.8	25.3	755*	631*	286*
0800	800	377.5	8.1	6.2	9.1	6	.355	.328	80	36.3	919*	892*	305*
1000	1000	471.9	9.4	7.1	10.4	6.7	.385	.385	80	36.3	919*	892*	305*
1200	1200	566.3	11	8.2	12	7.7	.46	.472	80	36.3	919*	892*	305*

*Dimensions may be subject to change

42NZ

Decorative Room Fan Coil-Exposed

Air Delivery: 190 to 930 cfm



Features:

- Multi position fan coil unit-floor, wall, under-ceiling or furred in application
- Aesthetic design combined with versatility
- Ultra- quiet operation
- Maximum height in horizontal position 220mm
- Centrifugal & tangential fan

Model 42NZ	Air Flow		Total Cooling Capacity	Water Flow Rate		Weight		Dimensions (mm)		
	cfm	l/s	kBtuh	gpm	l/s	lb	kg	L	W	H
16	190	90	4.9	1.1	0.07	38	17	830	220	657
25	270	131	7.4	1.6	0.1	42	19	1030	220	657
33	330	158	10.7	2.4	0.15	42	19	1030	220	657
43	480	227	13.8	3.0	0.19	48	22	1230	220	657
50	510	242	15.1	3.3	0.21	48	22	1230	220	657
60	720	339	20.0	4.4	0.28	77	35	1430	220	657
75	930	438	24.8	5.5	0.35	77	35	1430	220	657

Note:

Capacity and water flow rate is based on standard conditions: 27°C db/19°C wb entering air temperature, 7/12 °C entering/leaving water temperature, high fan speed.

42NF

Decorative Room Fan Coil-Concealed

Air Delivery: 190 to 930 cfm



Features:

- Multi position fan coil unit-floor, wall, under-ceiling or furred in application
- Aesthetic design combined with versatility
- Ultra- quiet operation
- Maximum height in horizontal position 220mm
- Centrifugal & tangential fan

Model 42NF	Air Flow		Total Cooling Capacity	Water Flow Rate		Weight		Dimensions (mm)		
	cfm	l/s	kBtuh	gpm	l/s	lb	kg	L	W	H
16	190	90	4.9	1.1	0.07	29	13	610	220	640
25	270	131	7.4	1.6	0.1	33	15	810	220	640
33	330	158	10.7	2.4	0.15	33	15	810	220	640
43	480	227	13.8	3.0	0.19	35	16	1010	220	640
50	510	242	15.1	3.3	0.21	35	16	1010	220	640
60	720	339	20.0	4.4	0.28	62	28	1210	220	640
75	930	438	24.8	5.5	0.35	62	28	1210	220	640

Note:

Capacity and water flow rate is based on standard conditions: 27°C db/19°C wb entering air temperature, 7/12 °C entering/leaving water temperature, high fan speed.

42AB

Room Fan Coil-Floor Mounted - Top Discharge - Exposed

Air Delivery: 200 to 800 cfm



Features:

- Automatic Air vent
- 3 row coil
- High efficiency heat transfer surface
- Cleanable filters
- Aluminum fan
- Quiet operation

Model 42AB	Air Flow		Total Cooling Capacity	Water Flow Rate		Weight		Dimensions (mm)		
	cfm	l/s	kBtuh	gpm	l/s	lb	kg	L	W	H
020	210	99	5	1	0.06	63.9	29	850	230	640
030	330	156	8.7	1.8	0.11	72.7	33	1030	230	640
040	430	203	12.2	2.4	0.15	84.8	38.5	1130	230	640
060	600	283	17	3.4	0.22	104.0	47.2	1360	230	640
080	800	338	22	4.4	0.28	120.0	54.5	1620	230	640

Note:

Capacity and water flow rate is based on standard conditions: 80°F db/67°F wb entering air temperature, 45/55 °F entering/leaving water temperature, high fan speed.

42AC

Room Fan Coil - Floor Mounted - Front Discharge - Exposed

Air Delivery: 200 to 800 cfm



Features:

- Automatic Air vent
- 3 row coil
- High efficiency heat transfer surface
- Cleanable filters
- Aluminum fan
- Quiet operation

Model 42AC	Air Flow		Total Cooling Capacity	Water Flow Rate		Weight		Dimensions (mm)		
	cfm	l/s	kBtuh	gpm	l/s	lb	kg	L	W	H
020	210	99	5	1	0.06	63.9	29	850	230	640
030	330	156	8.7	1.8	0.11	72.7	33	1030	230	640
040	430	203	12.2	2.4	0.15	84.8	38.5	1130	230	640
060	600	283	17	3.4	0.22	104.0	47.2	1360	230	640
080	800	338	22	4.4	0.28	120.0	54.5	1620	230	640

Note:

Capacity and water flow rate is based on standard conditions: 80°F db/67°F wb entering air temperature, 45/55 °F entering/leaving water temperature, high fan speed.

42HB

Room Fan Coil-Ceiling Mounted-Exposed

Air Delivery: 200 to 800 cfm



Features:

- Light weight and Compact
- 3 row coil
- High efficiency heat transfer surface
- Cleanable filters
- Centrifugal fan
- Horizontal Unit
- Quiet operation

Model 42HB	Air Flow		Total Cooling Capacity	Water Flow Rate		Weight		Dimensions (mm)		
	cfm	l/s	kBtuh	gpm	l/s	lb	kg	L	W	H
020	210	99	5	1	0.06	71	32	850	578	248
030	330	156	8.7	1.8	0.11	82	38	1030	578	248
040	430	203	12.2	2.4	0.15	96	44	1130	578	248
060	600	283	17	3.4	0.22	118	54	1360	578	248
080	800	338	22	4.4	0.28	137	62	1620	578	248

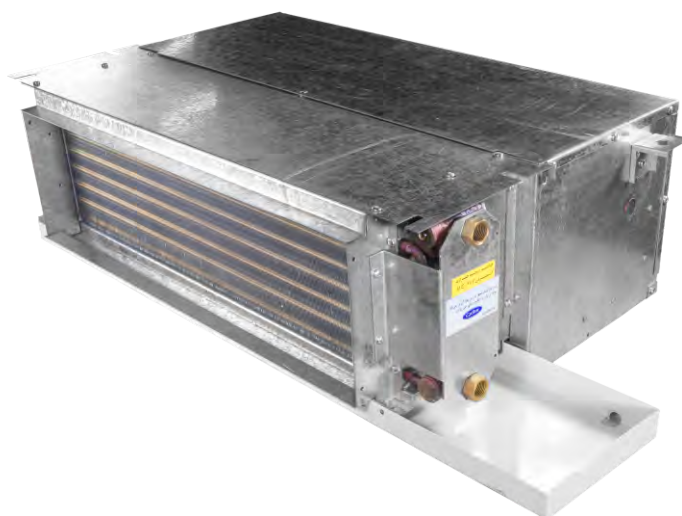
Note:

Capacity and water flow rate is based on standard conditions: 80°F db/67°F wb entering air temperature, 45/55 °F entering/leaving water temperature, high fan speed.

42HC

Room Fan Coil-Ceiling Mounted-Concealed(With Plenum)

Air Delivery: 200 to 800 cfm



Features:

- Furred-in ceiling fan coil unit with plenum
- 3 row coil
- High efficiency heat transfer surface
- Cleanable filters
- Centrifugal fan
- Horizontal unit
- Quiet operation

Model 42HC	Air Flow		Total Cooling Capacity	Water Flow Rate		Weight		Dimensions (mm)		
	cfm	l/s	kBtuh	gpm	l/s	lb	kg	L	W	H
020	210	99	5	1	0.06	32	15	675	512	267
030	330	156	8.7	1.8	0.11	38	17	823	512	267
040	430	203	12.2	2.4	0.15	44	20	928	512	267
060	600	283	17	3.4	0.22	53	24	1156	512	267
080	800	338	22	4.4	0.28	65	30	1410	512	267

Note:

Capacity and water flow rate is based on standard conditions: 80°F db/67°F wb entering air temperature, 45/55 °F entering/leaving water temperature, high fan speed.

42HA

Room Fan Coil - Ceiling Mounted - Concealed - Compact

Air Delivery: 200 to 800 cfm



Features:

- Furred-in ceiling fan coil unit with plenum
- 3 row coil
- High efficiency heat transfer surface
- Cleanable filters
- Centrifugal fan
- Horizontal unit
- Quiet operation

Model 42HA	Air Flow		Total Cooling Capacity	Water Flow Rate		Weight		Dimensions (mm)		
	cfm	l/s	kBtuh	gpm	l/s	lb	kg	L	W	H
020	210	99	5	1	0.06	44	20	619	548	235
030	330	156	8.7	1.8	0.11	53	24	797	548	235
040	430	203	12.2	2.4	0.15	61	28	898	548	235
060	600	283	17	3.4	0.22	68	31	1127	548	235
080	800	338	22	4.4	0.28	79	36	1381	548	235

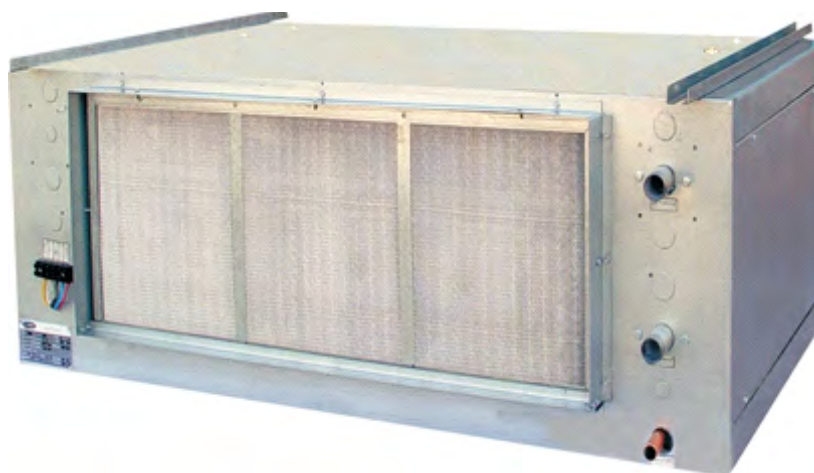
Note:

Capacity and water flow rate is based on standard conditions: 80°F db/67°F wb entering air temperature, 45/55 °F entering/leaving water temperature, high fan speed.

42DE

Ducted Fan Coil-Exposed

Air Delivery: 800 to 2000 cfm



Features:

- High quality reducing service and maintenance expenses
- Efficient operation
- Horizontal models
- Easy installation
- Casings and frames are included

Model 42DE	Air Flow		Total Cooling Capacity (kW)		Water Flow Rate (l/s)		Weight		Dimensions (mm)		
	cfm	l/s	4row	6row	4row	6row	lb	kg	L	W	H
08	800	377	6.6	9.3	0.28	0.40	155	70	915	813	458
10	1000	472	8.6	11.8	0.37	0.51	165	75	1016	813	458
12	1200	567	10.7	14.5	0.47	0.62	184	84	1143	813	458
14	1400	660	11.8	16.6	0.51	0.69	199	90	1270	813	458
16	1600	756	14.0	19.3	0.59	0.83	215	97	1397	813	458
18	1800	850	16.1	22.0	0.69	0.95	232	105	1524	813	458
20	2000	945	18.2	24.5	0.78	1.06	243	110	1626	813	458

Note:

Capacity and water flow rate is based on standard conditions: 80°F db/67°F wb entering air temperature, 45/55 °F entering/leaving water temperature, nominal air flow.

42DC

Ducted Fan Coil-Concealed

Air Delivery: 800 to 2000 cfm



Features:

- High quality which reduce service and maintenance expenses
- Efficient operation
- Horizontal models
- Easy installation
- Casings and frames are included

Model 42DC	Air Flow		Total Cooling Capacity (kW)		Water Flow Rate (l/s)		Weight		Dimensions (mm)		
	cfm	l/s	4row	6row	4row	6row	lb	kg	L	W	H
08	800	377	6.6	9.3	0.28	0.40	107	49	712	769	458
10	1000	472	8.6	11.8	0.37	0.51	150	68	813	769	458
12	1200	567	10.7	14.5	0.47	0.62	169	77	940	769	458
14	1400	660	11.8	16.6	0.51	0.69	174	79	1067	769	458
16	1600	756	14.0	19.3	0.59	0.83	178	80	1194	769	458
18	1800	850	16.1	22.0	0.69	0.95	195	89	1321	769	458
20	2000	945	18.2	24.5	0.78	1.06	220	100	1423	769	458

Note:

Capacity and water flow rate is based on standard conditions: 80°F db/67°F wb entering air temperature, 45/55 °F entering/leaving water temperature, nominal air flow.

38XD

Air Cooled Screw Compressor Condensing Unit

Cooling Capacity: 38 to 143 Ton (135 to 504 kW)



Features:

- R-134a refrigerant (R-407C optional).
- Screw Compressors in two independent refrigerant circuits (38XD080 and higher)
- Air cooled fin & tube condenser
- PLC Control
- Options of Aluminum, Copper or anti corrosion coated Fin
- Options of new axial fan diffuser leading to fan efficiency improvement, and thus noise emission reduction
- Option of compressor soundproof box designed to reduce the noise of compressors

Model 38XD	Cooling Capacity		Comp. Power Input	Weight		Dimensions (m)		
	kWR	TONS	kW	lb	kg	L	W	H
50S	135.4	38.5	30.7	2961	1346	3.1	2.3	2.6
60S	153.7	43.7	38.8	3298	1496	3.1	2.3	2.6
70S	172.3	49	45.6	3309	1501	3.1	2.3	2.6
80S	215.9	61.4	53.5	4363	1979	3.1	2.3	2.6
100S	271.2	77.1	61.5	5686	2579	4.3	2.3	2.6
120S	307.7	87.5	77.6	6361	2885	4.3	2.3	2.6
140S	344.3	97.9	91.2	7577	3737	4.3	2.3	2.6
160S	444.5	126.4	101.9	9630	4368	6.7	2.3	2.6
180S	504.0	143.3	119.4	9641	4373	6.7	2.3	2.6

Model 38XD	Cooling Capacity		Comp. Power Input	Weight		Dimensions (m)		
	kWR	TONS	kW	lb	kg	L	W	H
50T	120.2	34.2	35.9	3295	1495	3.1	2.3	2.6
60T	135.8	38.6	45.2	3631	1647	3.1	2.3	2.6
70T	152.3	43.3	52.8	3644	1653	3.1	2.3	2.6
80T	195.5	55.6	62.2	5269	2390	4.3	2.3	2.6
100T	230.7	65.6	75.4	5684	2278	4.3	2.3	2.6
120T	271.2	77.1	90.4	7264	3295	5.5	2.3	2.6
140T	304.6	86.6	105.5	7286	3305	5.5	2.3	2.6
160T	391.4	111.3	124.2	10539	4780	7.9	2.3	2.6
180T	443.8	126.2	145.0	10553	4787	7.9	2.3	2.6

Note:

Capacity is based on AHRI365 for R-134a, 45 °F saturated suction temperature and 95 (S series) and 115 (T Series) °F condenser entering air temperature.

38AK

Air Cooled Scroll Compressor Condensing Unit

Cooling Capacity: 21 to 37 Ton (23 to 130 kWR)



Features:

- R-134a Refrigerant
- Refrigerant R-407C & R-22 (option)
- Scroll compressor(s) in single or dual refrigerant circuit(s)
- Direct driven axial fan(s)
- Option of Aluminum, Copper or anti corrosion coated Fin
- Option of new axial fan diffuser leading to fan efficiency improvement and thus noise emission reduction

Model 38AK	Capacity		Comp. Power Input	Weight		Dimensions (m)		
	kWR	TONS	kW	lb	kg	L	W	H
008	22.5	6.4	5.1	539	245	1.2	1	1.7
009	27.2	7.7	7.0	615	279	1.2	1	1.7
012	31.3	8.9	9.1	602	273	1.2	1	1.7
013	51.7	14.7	13.8	895	406	2.1	1.2	1.1
016	55.5	15.8	13.5	921	418	2.1	1.2	1.1
024	64.4	18.3	17.5	901	409	2.1	1.2	1.1
028	82.3	23.4	22.8	1814	824	3.3	1.8	1.5
034	101.2	28.8	28.8	1992	904	3.3	1.8	1.5
044	129.5	36.8	33.0	2598	1179	4.5	1.8	1.5

Note:

Capacity is based on AHRI365 for R134a, 45 °F saturated suction temperature and 95 °F condenser entering air temperature.

38AKS

Air Cooled Reciprocating Compressor Condensing Unit

Cooling Capacity: 6 to 36 Ton (22 to 126 kWR)



Features:

- R-134a Refrigerant
- Refrigerant R-407C & R-22 (option)
- Semi hermetic Reciprocating compressor in single refrigerant circuit.
- Direct driven axial fan(s)
- Option of Aluminum, Copper or anti corrosion coated Fin
- Option of new axial fan diffuser leading to fan efficiency improvement and thus noise emission reduction

Model 38AKS	Capacity		Comp. Power Input	Weight		Dimensions (m)		
	kWR	TONS	kW	lb	kg	L	W	H
008	22.3	6.3	5.5	688	312	1.2	1	1.7
009	25	7.1	6.4	736	334	1.2	1	1.7
012	32	9.1	9.1	707	324	1.2	1	1.7
013	41.3	11.7	10.7	979	444	2.1	1.2	1.1
016	55.3	15.7	14.6	1018	462	2.1	1.2	1.1
024	61.2	17.4	16.9	951	432	2.1	1.2	1.1
028	78.6	22.3	22.0	2012	913	3.3	1.8	1.5
034	102.1	29	30.5	2270	1031	3.3	1.8	1.5
044	125.8	35.7	33.0	2882	1308	4.5	1.8	1.5

Note:

Capacity is based on AHRI365 for R-134a, 45 °F saturated suction temperature and 95 °F condenser entering air temperature.

50ZA(S)

Air cooled Scroll/Reciprocating Compressor Double Skin Cooling Package Unit

Cooling Capacity: 20 to 86 Ton (70 to 302 kWR)



Features:

- Air cooled roof top unit
- R-134a refrigerant
- Reciprocating compressors in single or dual refrigerant circuit(s) (50ZA series)
- Scroll compressors in dual refrigerant circuits (50ZAS series)
- Option of filter, heating coil and cooling coil types
- Flexible modular configurations*
- Horizontal discharge supply air
- Direct driven outdoor axial fan(s) for air cooled condenser
- Belt-pulley Driven centrifugal fan(s)
- Cleanable filters
- Option of aluminum, copper or anti corrosion coated fin
- Remote Monitoring System

Model 50ZA	Total Cooling Capacity		Comp. Power Input	Air Delivery
	ton	kWR	kW	CFM
30	23	80	21	7300
40	34	120	30.7	9500
60	47	165	41.6	14500
100	66	232	61.4	17600
140	86	302	87.3	21100

Model 50ZAS	Total Cooling Capacity		Comp. Power Input	Air Delivery
	ton	kWR	kW	CFM
30	20	70	16.9	7300
40	27	94	21.3	9700
50	33	116	27.5	12100
60	40	140	33.8	14500
80	50	176	43.9	17600
120	70	247	65.7	21100

Note:

Capacity is based on AHRI340/360, 80°F dry bulb and 67°F wet bulb DX coil entering air temperature at 450 fpm; 95 °F condenser entering air temperature.

*Dimensions and weights depend on unit configuration.

50DA(S)

Air Cooled Reciprocating/Scroll Compressor Single Skin Cooling Packaged Unit

Cooling Capacity: 5 to 23 Ton (18 to 81 kW)



Features:

- Air cooled Roof top units
- R-134e refrigerant (R-407C optional)
- Reciprocating (DA series) and scroll (DAS series) compressor (s)
- Single or dual refrigerant circuit(s)
- Horizontal discharge supply air
- Direct driven outdoor axial fan(s) for air cooled condenser
- Belt-pulley driven centrifugal fan(s) for fin-tube evaporator
- Cleanable filters
- Option of aluminum, copper or anti corrosion coated fin
- Remote Monitoring System

Model 50DA(S)	Nominal Cooling Capacity		Power Input	Air Flow	Weight (50DA(S))		Dimensions (mm)		
	ton	kWR	kW	CFM	lb	kg	L	W	H
006	5.2	18	6.0	2000	310	141	1686	1054	756
009	8.1	28	9.3	3400	393	178	1873	1054	838
012	9.5	33	10.3	4000	678	308	2294	1283	1162
016	13.8	49	15.3	6000	792	359	3004	1283	1162
024	18.7	66	20.6	7500	1145	519	2883	1918	1429
028	23.1	81	23.8	9500	1180	535	2883	1918	1429

Note:

Capacity is based on AHRI340/360, 80°F dry bulb and 67°F wet bulb DX coil entering air temperature at 450 fpm; 95 °F condenser entering air temperature.

*Dimensions and weights depend on unit configuration.

50BBS

Air Cooled Scroll Compressor Cooling Packaged Unit (Condenser-less)

Cooling Capacity: 8 to 44 Ton (28 to 155 kWR)



Features:

- Vertical cooling package unit
- R-22 Refrigerant
- Refrigerant R-407C & R-134a (option)
- Scroll compressor(s)
- Vertical discharge supply air
- Condenser less, suitable to match With SSI 09CDF Series Air Cooled Condenser
- Belt-Pulley driven centrifugal fan(s)
- Cleanable filters
- Options of aluminum or copper fin

Model 50BBS	Nominal Cooling Capacity		Weight		Dimensions (mm)		
	ton	kWR	lb	kg	L	W	H
008	8	28	640	290	1220	770	2030
012	12	42	800	363	1220	770	2030
016	16	57	1230	558	2030	750	2180
024	24	85	1230	558	2030	750	2180
028	28	99	2100	953	2370	900	2520
034	34	120	2200	998	2370	900	2520
044	44	155	2750	1248	3210	1180	2780

SAFCT

Fiberglass Cooling Tower

Cooling Capacity: 10 to 1450 Ton (35 to 5100 kW)



Features:

- Induction type cooling tower
- F class insulation
- Axial flow fan
- Polyethylene stand pipe with aluminum alloy cast sprinkler and polyethylene sprinkler pipe
- Hot dip galvanized steel tower support frame
- Fiberglass reinforced plastic casing and air inlet louver
- Hot dip galvanized steel support, fan guard
- 3-phase motor drive one per unit

Model SAFCT	Nominal Cooling Capacity		Water Flow	Weight (kg)		Dimensions (mm)	
	ton	kW	gpm	Ship.	Oper.	Height	Dia.
10	10	35	35	58	148	1630	900
20	20	70	71	115	279	1710	1200
30	30	105	105	170	378	2000	1600
40	40	141	141	179	432	2210	1600
50	50	176	175	220	530	2410	1900
60	60	211	210	402	738	2300	2000
80	80	281	280	441	802	2600	2000
90	90	317	318	456	868	2900	2600
100	100	352	352	528	959	2900	2600
125	125	440	442	634	1060	2940	3000
150	150	528	528	795	1479	2940	3000
175	175	615	620	889	1568	2960	3300
200	200	703	700	1358	2070	3750	3700
225	225	791	800	1482	3190	3750	3700
250	250	879	880	1675	3390	3950	4500
300	300	1055	1050	1790	3510	3950	4500
350	350	1231	1230	1885	3900	4280	4900
400	400	1407	1410	2355	4320	4280	4900
450	450	1583	1580	2548	5830	4420	5580
500	500	1759	1770	2610	7180	4420	5580
600	600	2110	2120	3220	10610	4870	6530
700	700	2462	2460	3690	10790	5170	6530
800	800	2813	2850	5280	12880	5250	7600
1000	1000	3517	3520	5510	13290	5400	7600
1250	1250	4396	4400	6220	14150	5600	8800
1450	1450	5100	4700	7845	15085	6100	8800

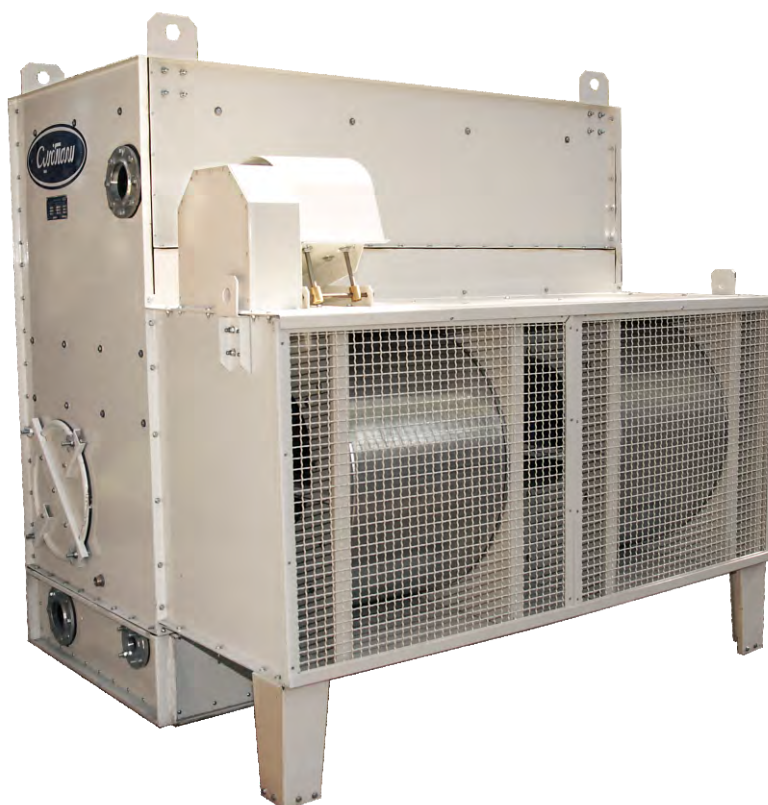
Note:

Capacity is based on entering air temperature WB 75°F, entering water temperature 95°F, and leaving water Temperature 85°F.

HCC

Galvanized Cooling Tower With Centrifugal Fan

Cooling Capacity: 50 to 250 Ton (176 to 879 kWR)



Features:

- Cross flow type cooling tower
- Low pressure operating nozzles distributor
- Multi cellular plastic material wetted deck
- Centrifugal forward curved fan
- Galvanized steel casing
- Removable, easy inspection of distributor eliminator
- 3-phase motor drive with v-belt
- Oven baked electrostatic paint

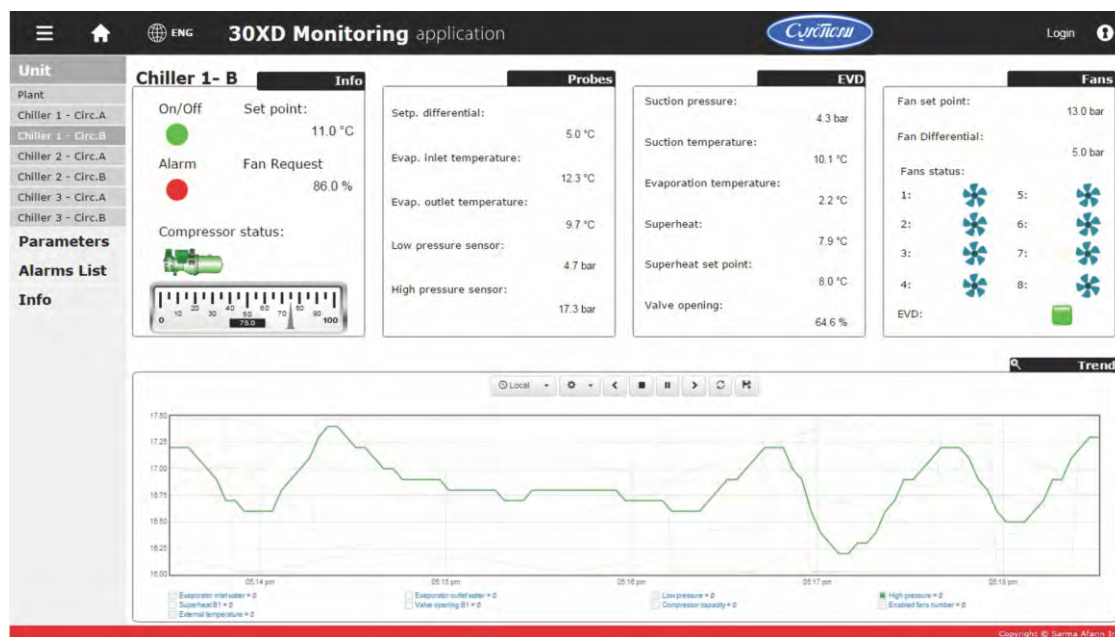
Model HCC	Cooling Capacity		Weight		Dimensions (mm)		
	ton	kWR	lb	kg	L	W	H
040	50	176	2490	1130	2060	1830	2010
050	63	222	2870	1301	2060	1830	2010
060	75	264	3310	1501	2570	1830	2010
075	93	327	3970	1800	3020	1960	2010
100	125	440	4850	2200	3960	1980	2010
125	156	549	6170	2799	3960	2210	2311
150	187	658	6860	3099	4851	2438	2514
170	220	774	7500	3401	2674	2718	2514
200	250	879	7940	3601	5385	2642	2540

Note:

Capacity is based on entering air temperature WB 75°F, entering water temperature 95°F, leaving water Temperature 85°F.

The remote monitoring system is provided by Sarmaafarin on its chillers and packages on request of customers. By directly connecting the monitoring system to the main control unit, all information and alarms can be transmitted to any location via a fixed connection line. Real time monitoring of operating conditions on installed units, recording of data in abnormal situations, maintenance management and

setting desired temperature in the home from a smart phone, are just some of many opportunities provided to designers and users of home systems at any time and from anywhere. Storing customer information for at least one year has a significant impact on the proper functioning and operational life of the system, making it easier to maintain the system.



Features and Benefits of Monitoring

- Observation of important parameters at any moment
- Displaying the current status of system on a chart based on live data
- Recording important values in the case of abnormal events
- Quick diagnosis of system faults and troubleshooting from anywhere
- Customized pages for the customer
- Selecting important parameters, notifications and warnings by the custom
- Applicable settings via PC or Smart phone
- Different access levels with specific passwords for users
- Collecting and building an annual archive of information



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Sanaye Sarmaafarin Iran

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