

Unitary Air Cooled Chiller



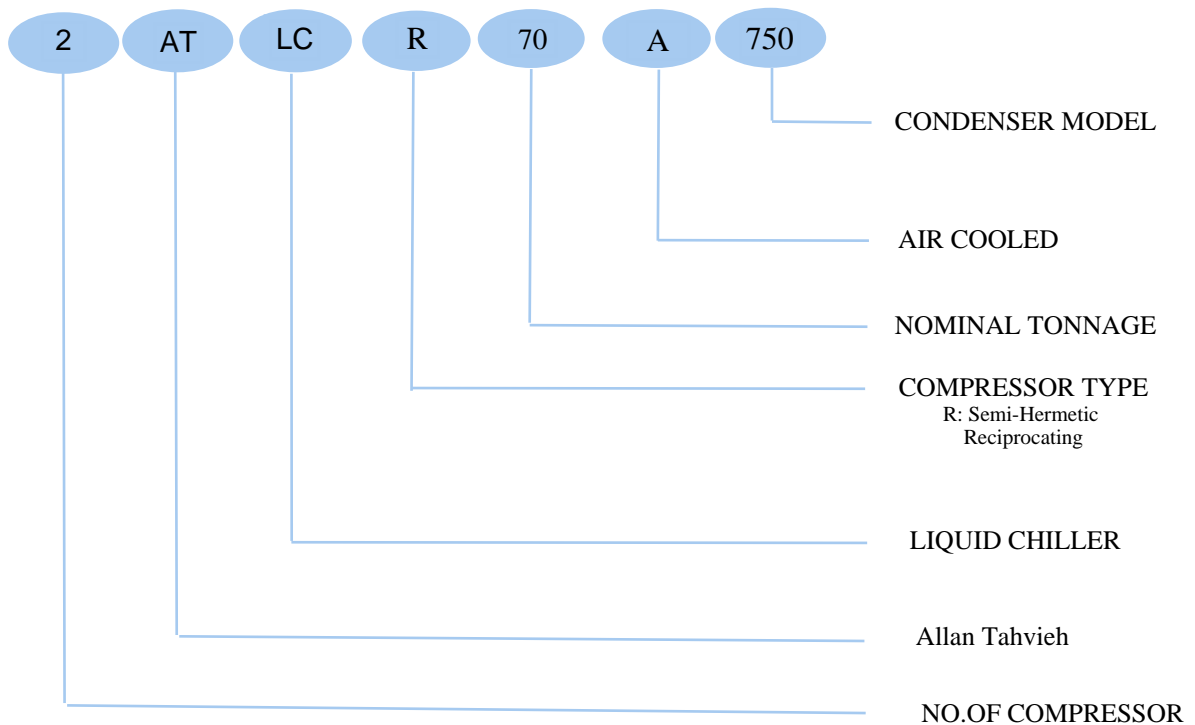
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Nomenclature



Features

Allan Tahviah compact roof top chiller units are manufactured in type of air cooled in capacities of 5 to 360T.R. in one to four circuited configurations.

In all Allan Tahviah compact roof-top chiller units the frames and body are from galvanized steel & stainless steel (316l) (option) the chassis made steel channel in appropriate thicknesses and all of units are completely painted in the proper thickness.

Evaporators are high efficiency shell and tube heat exchangers, designed based on Tema. Condenser of compact rooftop chiller unit made of plated coil, designed based on Tema.

Chillers with plate type heat exchangers are available upon request.

Allan Tahviah compact roof top chillers can be designed to operate with R-22 , R-407C and R-134a refrigerants.

Safety controls installed on all units include high, oil and low pressure cut-outs, compressor safety cut-out, water anti freeze thermostat, water flow switch and evaporator entering water thermostat and compressor operation time logger. The above mentioned are all chosen from the most recognized controls manufactures in the air conditioning industry.

Automatic condensing temperature control:

A controller, factory installed on each unit automatically stages the condenser fans allowing the unit to start. With this controller the condenser fans start stage by stage.

Raw materials such as copper tubes, fittings and valves are supplied by well-respected manufacturers.

Electrical safety measures such as three phase controller and circuit breakers are, available on all units.

A fault detection system for the whole unit is available upon request.

Microprocessor based PLC controller is also available as needed.

Suitable accessories make the chillers operable in all seasons according to the application requirements without any problems.

Selection Information

General

Cooling capacity is tabulated for all chiller models at a variety of conditions to cover most comfort cooling and industrial system requirements. The compact roof-top chiller units are rated over a range of Leaving Water Temperatures of 42°F to 46°F and Condensing Temperatures of 110°F to 135°F (for R-134a condensing temperatures upper to 140°F).

Chilled Water Volume and Temperature:

Required cooling capacity and the desired chilled water range are the two important factors in determining the amount of water to be circulated in the evaporator. This flow rate in (GPM) is given in the performance data tables. The following formula can also be used when needed.

$$\text{GPM} = \frac{24 \times \text{QE}}{\text{Chilled Water Range } \Delta T \text{ (}^\circ\text{F)}}$$

Chiller:

A 20°F Condensing Temperatures Range is generally the best compromise for the most economical air cooled condenser unit selection to satisfy the chiller requirements. Based on the above suggestion and referring to performance data tables under different condensing temperatures.

A using requires the use of remotely located air cooled condensers. The column headed QC in the performance data tables show the required THR capacity at each condensing temperature condition. Refer to table (total heat rejection) append selection condenser unit.

Performance Data (Reciprocating Compressor)

Air Cooled Chiller Evap. Leaving Water Temp. 42°F

REFRIGERANT = R22

Model	Condensing Temperature														
	110°F				115°F				120°F						
	QE	WC	Evap. W.F.D. (ΔT=10°F)		QC	QE	WC	Evap. W.F.D. (ΔT=10°F)		QC	QE	WC	Evap. W.F.D. (ΔT=10°F)		QC
	MBH	KW	GPM	PD	MBH	MBH	KW	GPM	PD	MBH	MBH	KW	GPM	PD	MBH
1ATLCR-5	5.9	4.1	11.6	0.14	6.83	5.6	4.29	11.2	0.14	6.8	5.4	4.6	10.7	0.14	6.54
1ATLCR-7.5	10.2	6.99	20.2	0.33	11.78	9.8	7.32	19.5	0.32	11.46	9.5	7.62	18.9	0.32	11.4
1ATLCR-10	12	8.26	23.8	0.46	13.5	11.6	8.65	22.9	0.46	13.58	11.2	9.02	22.2	0.45	13.5
1ATLCR-15	16	11.17	31.8	0.87	18.27	15.7	11.7	30.8	0.82	17.93	14.9	12.4	29.9	0.59	17.8
1ATLCR-20	17	13	33.9	0.98	20.2	16.5	13.45	32.7	0.94	19.7	15.8	14.1	31.5	0.86	19.3
1ATLCR-25	21.8	16.7	43.4	1.16	25.8	20.9	17.3	41.9	1.1	25.3	20.3	18.1	40.6	1.04	24.7
1ATLCR-30	26	20.2	52	1.55	30.5	25.2	20.8	50.3	1.47	29.9	24.3	21.7	48.6	1.38	29.3
1ATLCR-35	31.5	25.7	62.9	1.82	37.4	30.3	26.6	60.7	1.69	36.6	29.4	27.7	58.6	1.58	35.9
1ATLCR-40	37.6	30.4	75.2	2.7	44.52	36.3	31.6	72.8	2.55	43.8	35.2	32.8	69.9	2.32	42.9
1ATLCR-50	46	35.84	91.8	4.40	54.2	44.39	37.3	88.9	4.22	53.1	43.2	37.84	85.9	3.75	52.3
1ATLCR-60	54.9	43	109.9	5.32	64.6	53.06	44.7	106.1	4.98	63.5	51.4	46.3	102.7	4.68	62.3
2ATLCR-10	11.6	8.19	23.1	0.87	13.65	11.2	8.56	22.2	0.79	13.5	10.7	9.1	21.4	0.72	13.07
2ATLCR-15	20.2	13.99	40.4	1.01	23.55	19.5	14.62	38.9	0.96	22.9	18.8	15.22	37.5	0.92	22.7
2ATLCR-20	23.8	16.6	47.6	1.34	26.9	22.9	17.28	45.9	1.24	27.15	22.1	18.03	44.3	1.13	26.7
2ATLCR-30	31.7	22.4	63.6	2.73	36.6	30.7	23.4	61.5	2.57	35.83	29.7	24.5	59.6	2.42	35.3
2ATLCR-40	33.7	25.9	67.7	2.11	40.1	32.5	26.9	65.2	1.96	39.3	31.3	28	62.9	1.81	38.5
2ATLCR-50	43.2	33.3	86.8	3.23	51.5	41.8	34.6	83.9	3.02	50.5	40.4	36.1	80.9	2.79	49.5
2ATLCR-60	51.7	40.1	103.8	5.32	61.1	49.9	41.7	100.4	5.02	59.9	48.3	43.3	96.9	4.72	58.5
2ATLCR-70	62.6	51.3	125.7	6.37	74.9	60.4	53.4	121.3	5.95	73.2	58.4	55.3	117.2	5.57	71.7
2ATLCR-80	74.8	60.7	150.1	9.59	89.05	72.4	63	145.5	9.14	87.5	69.7	65.5	139.9	8.63	85.6
2ATLCR-100	91.4	71.67	183.6	9.72	108.5	88.4	74.6	177.7	9.19	106.1	85.6	75.66	171.9	8.68	104.5
2ATLCR-120	109.4	86.1	219.7	14.09	129.1	105.7	89.5	212.3	13.29	127	102.3	92.6	205.5	12.58	124.7
4ATLCR-80	67.4	51.7	135.2	4.66	80.1	64.7	53.8	130.4	4.39	78.5	62.5	56.1	125.7	4.13	76.9
4ATLCR-100	86.2	66.5	173.4	7.34	102.9	83.4	69.3	167.7	6.87	100.9	80.5	72.1	161.9	6.41	98.9
4ATLCR-120	103.2	80.1	207.5	9.99	122.1	99.8	83.2	200.7	9.52	119.7	96.4	86.5	193.9	9.06	116.9
4ATLCR-140	124.9	102.3	251.2	12.76	149.7	120.6	106.4	242.5	11.97	146.1	116.5	110.5	234.3	11.23	143.3
4ATLCR-160	149.3	121.3	300.4	17.99	178.09	144.6	126.1	290.8	16.87	174.9	139.2	130.9	279.9	15.58	171.3
4ATLCR-200	182.6	143.33	367.2	27.46	216.9	176.6	149.2	355.2	25.74	212.1	170.9	151.33	343.8	24.09	208.9
4ATLCR-240	218.5	172.1	439.6	31.73	216.9	211.1	178.8	424.6	29.79	254.1	204.2	185.3	410.9	28.04	249.2

NOTE:

1MBH=10000 Btu/hr

QE: Actual Evaporator Cooling Capacity

QC: Condenser Total Heat Rejection

WC: Compressor Motor Power Input at 380v, 3Ø, 50Hz

P.D.: Water Pressure Drop (Ft.W.G.)

W.F.D : Water Flow Data

Performance Data (Reciprocating Compressor)

Air Cooled Chiller Evap. Leaving Water Temp. 42°F(Cont.)

REFRIGERANT = R22

Model	Condensing Temperature														
	125°F				130°F				135°F						
	QE	WC	Evap. W.F.D. (ΔT=10°F)		QC	QE	WC	Evap. W.F.D. (ΔT=10°F)		QC	QE	WC	Evap. W.F.D. (ΔT=10°F)		QC
	MBH	KW	GPM	PD	MBH	MBH	KW	GPM	PD	MBH	MBH	KW	GPM	PD	MBH
1ATLCR-5	5.2	4.63	10.3	0.13	6.39	5	4.79	9.8	0.13	6.22	4.8	4.95	9.4	0.12	6.06
1ATLCR-7.5	9.1	7.93	18.2	0.31	11.06	8.7	8.23	17.4	0.29	10.81	8.4	8.51	16.7	0.29	10.54
1ATLCR-10	10.7	9.389	21.4	0.44	13.04	10.2	9.75	20.5	0.43	12.72	9.8	10.2	19.7	0.43	12.46
1ATLCR-15	14.3	12.8	28.4	0.69	17.24	13.6	13.2	27.3	0.64	16.9	13.2	13.7	26.3	0.57	16.56
1ATLCR-20	15.1	14.6	30.1	0.79	18.77	14.5	15.1	29.1	0.73	18.25	13.9	15.5	27.6	0.65	17.9
1ATLCR-25	19.5	18.7	38.9	0.97	24.3	18.8	19.2	37.6	0.91	23.8	18.2	19.8	36.2	0.85	23.4
1ATLCR-30	23.5	22.2	46.8	1.29	28.6	22.3	22.9	44.8	1.19	28.2	21.5	23.7	43.0	1.10	27.4
1ATLCR-35	28.2	28.7	56.4	1.44	35.1	27.1	29.7	54.4	1.32	34.2	26.1	30.5	52.2	1.18	33.7
1ATLCR-40	33.9	33.9	67.7	2.29	41.8	32.4	35.1	64.8	2.02	41.2	31.0	36.3	62.2	1.86	40.1
1ATLCR-50	41.6	40.18	83.1	3.71	51.03	40.09	41.57	80.3	3.52	50.08	38.8	42.95	77.5	3.34	49.5
1ATLCR-60	49.7	48.1	99.4	5.32	61	47.94	49.6	95.9	4.82	59.9	46.4	51.3	92.8	4.74	58.7
2ATLCR-10	10.3	9.25	20.5	0.64	12.77	9.9	9.57	19.7	0.57	12.43	9.4	9.89	18.8	0.49	12.2
2ATLCR-15	18.2	15.85	36.3	0.89	22.2	17.4	16.44	34.9	0.85	21.64	16.8	17.03	33.5	0.80	21.08
2ATLCR-20	21.4	18.77	42.7	1.05	26.07	20.6	19.5	40.9	0.94	25.45	19.8	20.3	39.4	0.84	24.9
2ATLCR-30	28.3	25.5	56.7	2.19	34.47	27.4	26.4	54.7	2.15	33.9	26.2	27.5	52.6	1.99	33.2
2ATLCR-40	29.9	29.1	60.2	1.64	37.53	28.9	30	58.2	1.49	36.6	27.6	31.2	55.4	1.32	35.9
2ATLCR-50	38.8	37.3	77.9	2.57	48.5	37.4	38.4	75.2	2.36	47.5	36.1	39.7	72.4	2.16	46.5
2ATLCR-60	46.6	44.3	93.6	4.42	57.3	44.6	45.6	89.4	4.05	56.1	42.9	47.5	86.1	3.75	54.5
2ATLCR-70	56.1	57.3	112.7	5.14	70.3	54.1	59.2	108.6	4.76	68.3	51.9	61.1	104.5	4.37	67.3
2ATLCR-80	67.1	67.9	135.2	8.18	83.7	64.6	70	129.8	7.67	82.1	61.8	72.3	124.3	7.16	80.1
2ATLCR-100	82.7	80.35	165.9	8.16	102.06	79.9	83.15	160.5	7.66	100.14	77.2	85.9	155.1	7.19	98.9
2ATLCR-120	98.9	96.1	198.7	11.86	122	95.5	99.2	191.9	11.13	119.8	92.4	102.7	185.7	10.49	117.4
4ATLCR-80	59.8	58	120.1	3.82	25.52	57.9	60.1	116.1	3.59	73.1	54.9	62.1	110.6	3.29	71.6
4ATLCR-100	77.4	74.5	155.7	5.91	44.3	74.7	76.8	150.2	5.47	94.8	72	79.2	144.7	5.03	92.8
4ATLCR-120	93	88.5	187.1	8.6	52.13	89	91.2	178.9	8.04	112.1	85.6	94.8	172.0	7.58	109.2
4ATLCR-140	112	114.5	225.4	10.42	68.93	108	118.4	217.1	9.68	136.5	103.9	122	208.8	8.94	134.4
4ATLCR-160	134.4	135.7	270.4	14.46	75.05	129	140	259.4	13.17	164.2	123.6	144.4	248.4	11.89	160.1
4ATLCR-200	165.1	160.69	331.9	22.41	96.9	159.5	166.28	320.8	20.81	200.29	154.2	171.8	310.0	19.28	197.7
4ATLCR-240	197.5	192.1	397.4	26.28	114.5	190.7	198.4	383.6	24.53	239.7	184.6	205.2	371.2	22.95	234.9

NOTE:

1MBH=10000 Btu/hr

QE: Actual Evaporator Cooling Capacity

QC: Condenser Total Heat Rejection

WC: Compressor Motor Power Input at 380v, 3Ø, 50Hz

P.D.: Water Pressure Drop (Ft.W.G.)

W.F.D : Water Flow Data

Performance Data (Reciprocating Compressor)

Air Cooled Chiller Evap. Leaving Water Temp. 44°F

REFRIGERANT = R22

Model	Condensing Temperature															
	110°F				115°F				120°F							
	QE	WC	Evap. W.F.D. (ΔT=10°F)		QC	QE	WC	Evap. W.F.D. (ΔT=10°F)		QC	QE	WC	Evap. W.F.D. (ΔT=10°F)		QC	
								MBH	KW	GPM	PD	MBH	MBH	KW	GPM	PD
1ATLCR-5	6.2	4.15	12.2	0.14	7.3	5.6	4.32	11.1	0.14	6.93	5.6	4.5	11.2	0.14	6.79	
1ATLCR-7.5	10.4	7.04	20.8	0.33	12.22	10.0	7.37	19.9	0.33	11.95	9.7	7.68	19.3	0.32	11.8	
1ATLCR-10	12.5	8.33	24.9	0.46	14.36	11.9	8.71	23.9	0.47	14.2	11.7	9.09	23.2	0.46	13.9	
1ATLCR-15	16.2	11.27	32.4	0.89	18.86	15.6	11.8	31.2	0.85	18.54	15.1	12.3	30.3	0.79	18.18	
1ATLCR-20	17.7	13.2	35.3	1.06	20.77	17.0	13.6	34.0	0.99	20.4	16.4	14.15	32.9	0.94	58.2	
1ATLCR-25	22.7	16.75	45.2	1.23	22.19	21.8	17.5	43.7	1.17	26.2	21.2	18.15	42.3	1.12	25.59	
1ATLCR-30	26.7	20.3	53.4	1.61	31.56	25.8	21.1	51.5	1.52	30.93	24.9	21.9	49.8	1.44	30.3	
1ATLCR-35	32.2	25.9	64.5	1.92	38.5	31.1	26.9	62.2	1.79	37.87	30.2	28	60.1	1.66	37.2	
1ATLCR-40	39.3	30.7	78.6	2.8	46.25	37.9	31.9	75.7	2.8	45.3	36.7	33.1	73.1	2.62	44.35	
1ATLCR-50	47.9	36.13	95.5	4.07	55.79	46.11	37.68	92.2	4.55	54.8	44.7	39.13	89.2	4.33	53.7	
1ATLCR-60	57.5	43.5	114.8	5.8	67.3	55.29	45.3	110.5	5.5	65.7	53.6	46.9	107.2	5.06	64.48	
2ATLCR-10	12.2	8.27	24.2	1.05	14.2	11.2	8.64	22.4	0.98	13.85	11.1	9.1	22.1	0.88	13.56	
2ATLCR-15	20.9	14.07	41.4	1.11	24.42	19.9	14.74	39.9	1.02	23.88	19.2	15.37	38.6	0.98	23.4	
2ATLCR-20	24.9	16.63	49.7	1.42	28.72	23.9	17.42	47.8	1.30	28.3	23.2	18.18	46.1	1.28	27.6	
2ATLCR-30	32.2	22.6	64.7	2.84	37.72	31.0	23.6	62.5	2.68	37.07	30.8	24.7	60.4	2.52	36.36	
2ATLCR-40	35.2	26.1	70.4	2.29	41.5	33.8	27.2	68.0	2.15	40.7	32.7	28.4	65.6	2.02	116.4	
2ATLCR-50	44.9	33.6	90.3	3.46	44.36	43.5	35	87.4	3.29	52.3	42.1	36.2	84.6	3.09	51.18	
2ATLCR-60	53.1	40.7	106.7	5.56	63.12	51.3	42.2	103.0	5.32	61.83	49.6	43.9	99.6	5.01	60.6	
2ATLCR-70	64.2	51.7	128.8	6.61	77	61.9	53.8	124.3	6.19	75.75	59.8	56.2	120.1	5.79	74.1	
2ATLCR-80	78.2	61.3	157.2	10.75	92.46	75.4	63.8	151.6	10.02	90.5	72.8	66.3	146.1	6.01	88.7	
2ATLCR-100	94.9	72.23	190.7	10.91	111.54	91.8	75.34	184.5	9.82	109.5	88.9	78.26	178.5	9.10	107.4	
2ATLCR-120	114.2	86.9	229.4	15.12	134	110.0	90.4	221.1	14.52	131.5	106.6	93.9	214.4	13.12	128.96	
4ATLCR-80	70.2	52.1	140.9	5.12	83.1	67.7	54.4	135.9	4.75	81.2	65.1	56.6	131.0	4.41	232.8	
4ATLCR-100	89.9	67.2	180.5	7.88	88.73	86.8	70	174.7	7.29	104.6	84.0	72.7	169.0	6.82	102.36	
4ATLCR-120	106.2	81.3	213.3	10.52	126.25	102.5	84.4	206.1	9.88	123.65	98.9	87.7	199.0	9.32	121.2	
4ATLCR-140	128	103.3	257.5	13.81	154.2	123.7	107.6	248.8	12.19	151.49	119.32	112.2	239.9	11.42	148.2	
4ATLCR-160	156.1	122.5	313.9	18.98	184.93	150.7	127.7	303.0	17.80	180.8	145.3	132.5	292.1	16.62	177.4	
4ATLCR-200	189.7	144.45	381.6	29.29	223.09	183.4	150.69	368.9	27.51	218.8	177.4	156.54	357.2	25.92	214.8	
4ATLCR-240	228	173.7	458.7	34.82	268.1	219.9	180.9	442.2	32.60	262.8	213.2	187.7	428.6	30.78	257.92	

NOTE:

1MBH=10000 Btu/hr

QE: Actual Evaporator Cooling Capacity

QC: Condenser Total Heat Rejection

WC: Compressor Motor Power Input at 380v, 3Ø, 50Hz

P.D.: Water Pressure Drop (Ft.W.G.)

W.F.D : Water Flow Data

Performance Data (Reciprocating Compressor)

Air Cooled Chiller Evap. Leaving Water Temp. 44°F(Cont.)

REFRIGERANT = R22

Model	Condensing Temperature														
	125°F				130°F				135°F						
	QE	WC	Evap. W.F.D. (ΔT=10°F)		QC	QE	WC	Evap. W.F.D. (ΔT=10°F)		QC	QE	WC	Evap. W.F.D. (ΔT=10°F)		QC
	MBH	KW	GPM	PD	MBH	MBH	KW	GPM	PD	MBH	MBH	KW	GPM	PD	MBH
1ATLCR-5	5.3	4.67	10.6	0.13	6.6	5.1	4.84	10.2	0.12	6.43	4.9	5	9.8	0.12	6.26
1ATLCR-7.5	9.4	8	18.8	0.31	11.4	9.0	8.31	18.1	0.30	11.15	8.7	8.61	17.4	0.29	10.91
1ATLCR-10	11.2	9.47	22.3	0.44	13.44	10.7	9.85	21.4	0.42	13.13	10.3	10.2	20.6	0.40	12.86
1ATLCR-15	14.6	12.85	29.3	0.73	17.81	14.1	13.35	28.3	0.68	17.43	13.6	13.85	27.2	0.62	17.1
1ATLCR-20	15.7	14.65	31.4	0.85	19.34	15.0	15.2	30.1	0.78	18.9	14.4	15.7	28.9	0.71	18.42
1ATLCR-25	20.3	18.8	40.5	1.03	25	19.5	19.45	39.0	0.97	24.43	18.8	20	37.5	0.90	23.84
1ATLCR-30	24.3	22.6	48.5	1.37	29.5	23.3	23.3	46.7	1.28	28.9	22.4	24	44.8	1.19	28.14
1ATLCR-35	29.3	29	58.6	1.57	36.1	28.2	30	56.4	1.43	35.5	27.1	30.9	54.2	1.30	34.6
1ATLCR-40	35.1	34.3	70.3	2.34	43.3	33.7	35.5	67.5	2.14	42.3	32.4	36.6	64.8	2	72.3
1ATLCR-50	43.1	40.62	86.3	3.88	52.7	41.68	42.08	83.4	3.65	51.7	40.3	43.51	80.6	3.44	50.76
1ATLCR-60	51.5	48.6	103.0	5.62	63	49.82	50.3	99.6	5.3	61.7	48.3	52	96.6	4.98	60.7
2ATLCR-10	10.6	9.34	21.3	0.69	13.2	10.2	9.68	20.4	0.60	12.86	9.8	10	19.6	0.56	12.52
2ATLCR-15	18.8	16	37.5	0.90	22.8	18.1	16.62	36.2	0.85	22.3	17.4	17.22	34.8	0.80	21.82
2ATLCR-20	22.3	18.94	44.6	1.13	26.88	21.4	19.7	42.9	1.03	26.26	20.6	20.4	41.2	0.97	25.72
2ATLCR-30	29.1	25.7	58.5	2.30	35.62	28.1	26.7	56.5	2.14	34.86	27.1	27.7	54.5	2.04	34.2
2ATLCR-40	31.2	29.3	62.8	1.80	38.68	29.9	30.4	60.2	1.67	37.8	28.7	31.4	57.7	1.54	36.84
2ATLCR-50	40.3	37.6	81.1	2.73	50	38.8	38.9	78.1	2.55	48.86	37.3	40	75.1	2.40	47.68
2ATLCR-60	48.3	45.2	97.0	4.55	59	46.4	46.6	93.4	4.21	57.8	44.6	48	89.7	3.95	56.28
2ATLCR-70	58.3	58	117.2	5.52	72.2	56.1	60	112.7	5.15	71	53.9	61.8	108.4	4.78	69.2
2ATLCR-80	69.9	68.6	140.6	8.73	86.6	67.2	71	135.0	8.16	84.6	64.5	73.2	129.7	7.60	144.6
2ATLCR-100	85.8	81.24	172.5	8.83	105.4	82.9	84.16	166.7	8.30	103.4	80.2	87.02	161.2	7.80	101.52
2ATLCR-120	102.5	97.2	206.1	12.60	126	99.1	100.6	199.3	11.88	123.4	96.1	104	193.1	11.24	121.4
4ATLCR-80	62.4	58.6	125.6	4.18	77.36	59.8	60.8	120.4	3.80	75.6	57.4	62.8	115.5	3.58	73.68
4ATLCR-100	80.6	75.2	162.1	6.50	100	77.6	77.8	156.1	6.02	97.72	74.6	80	150.1	5.62	95.36
4ATLCR-120	96.5	90.4	194.1	9.10	118	92.8	93.2	186.7	8.50	115.6	89.1	96	179.3	8.00	112.56
4ATLCR-140	116.5	116	234.5	11.25	144.4	112.1	120	225.5	10.44	142	107.7	123.6	216.7	9.77	138.4
4ATLCR-160	139.7	137.2	281.1	15.90	173.2	134.2	142	270.0	14.80	169.2	128.9	146.4	259.3	13.72	289.2
4ATLCR-200	171.5	162.48	345.0	24.50	210.8	165.7	168.32	333.4	23.00	206.8	160.2	174.04	322.4	21.60	203.04
4ATLCR-240	204.8	194.4	412.2	28.80	252	198.1	201.2	398.5	27.10	246.8	192.0	208	386.2	25.63	242.8

NOTE:

- 1MBH=10000 Btu/hr
- QE: Actual Evaporator Cooling Capacity
- QC: Condenser Total Heat Rejection
- WC: Compressor Motor Power Input at 380v, 3Ø, 50Hz
- P.D.: Water Pressure Drop (Ft.W.G.)
- W.F.D : Water Flow Data

Performance Data (Reciprocating Compressor)

Air Cooled Chiller Evap. Leaving Water Temp. 45°F

REFRIGERANT = R22

Model	Condensing Temperature														
	110°F				115°F				120°F						
	QE	WC	Evap. W.F.D. (ΔT=10°F)		QC	QE	WC	Evap. W.F.D. (ΔT=10°F)		QC	QE	WC	Evap. W.F.D. (ΔT=10°F)		QC
	MBH	KW	GPM	PD	MBH	MBH	KW	GPM	PD	MBH	MBH	KW	GPM	PD	MBH
1ATLCR-5	6.1	4.14	12.3	0.14	7.23	5.9	4.34	11.8	0.14	7.06	5.7	4.52	11.4	0.13	6.93
1ATLCR-7.5	10.7	7.05	21.5	0.33	12.41	10.4	7.4	20.7	0.33	12.18	10.0	7.72	20.1	0.32	11.94
1ATLCR-10	12.7	8.33	25.3	0.45	14.64	12.2	8.75	24.4	0.45	14.33	11.8	9.14	23.5	0.45	14.05
1ATLCR-15	16.5	11.3	33.0	0.93	19.24	15.9	11.85	31.9	0.87	18.86	15.2	12.4	30.4	0.79	18.53
1ATLCR-20	18.0	13.1	36.0	1.11	21.12	17.4	13.65	34.7	1.04	20.67	16.8	14.2	33.5	0.97	20.23
1ATLCR-25	23.1	16.85	46.1	1.28	27.1	22.3	17.6	44.6	1.21	26.25	21.6	18.25	43.2	1.15	26.06
1ATLCR-30	27.7	20.4	55.3	1.71	32.2	26.8	21.1	53.5	1.62	31.56	25.9	22	51.7	1.53	30.91
1ATLCR-35	33.3	28.1	66.5	2.05	37.87	32.1	27.1	64.3	1.91	38.55	31.2	28.1	62.4	1.80	37.87
1ATLCR-40	40.1	30.8	80.2	2.6	47.08	38.7	32.1	77.5	2.6	46.06	37.4	33.4	74.7	2.6	37.67
1ATLCR-50	48.8	36.27	97.6	4.40	56.8	47.15	37.87	94.3	4.40	38.72	45.7	39.36	91.3	4.40	54.74
1ATLCR-60	58.5	43.6	117.0	6.09	68.24	56.64	45.5	113.3	5.82	66.87	54.8	47.2	109.5	5.55	65.7
2ATLCR-10	12.3	8.28	24.6	1.00	14.46	11.8	8.68	23.7	0.92	14.12	11.4	9.04	22.8	0.84	13.86
2ATLCR-15	21.5	14.1	43.0	1.09	24.82	20.7	14.8	41.5	1.04	24.36	20.1	15.44	40.1	1.00	23.88
2ATLCR-20	25.3	16.66	50.6	1.53	29.28	24.4	17.5	48.9	1.42	28.66	23.5	18.28	47.1	1.31	28.1
2ATLCR-30	32.8	22.6	65.9	2.91	38.48	31.7	23.7	63.7	2.74	37.72	30.2	24.8	60.7	2.51	37.06
2ATLCR-40	35.9	26.2	72.1	2.40	42.24	34.6	27.3	69.5	2.23	41.34	33.3	28.4	67.0	2.07	40.46
2ATLCR-50	45.9	33.7	92.3	3.64	54.2	44.4	35.2	89.3	3.41	52.5	43.0	36.5	86.4	3.20	52.12
2ATLCR-60	55.1	40.8	110.7	5.93	64.4	53.2	42.2	107.0	5.61	63.12	51.5	44	103.5	5.29	61.82
2ATLCR-70	66.2	56.2	133.1	7.07	75.74	64.0	54.2	128.6	6.64	77.1	62.1	56.2	124.7	6.28	75.74
2ATLCR-80	79.8	61.6	160.4	10.53	94.16	77.1	64.2	154.9	10.02	92.12	74.3	66.8	149.4	9.51	75.34
2ATLCR-100	97.1	72.54	195.1	10.74	113.6	93.8	75.74	188.6	10.16	77.44	90.9	78.72	182.7	9.63	109.48
2ATLCR-120	116.4	87.2	234.1	15.59	136.48	112.7	91	226.6	14.80	133.74	109.0	94.4	219.1	14.01	131.4
4ATLCR-80	71.6	52.4	144.1	5.16	84.48	69.1	54.6	138.9	4.87	82.68	66.6	56.8	134.0	4.59	80.92
4ATLCR-100	91.7	67.4	184.5	8.23	108.4	88.7	70.4	178.5	7.74	105	85.9	73	172.8	7.28	104.24
4ATLCR-120	110.0	81.6	221.4	10.93	128.8	106.4	84.4	214.0	10.42	126.24	102.8	88	206.9	9.94	123.64
4ATLCR-140	132.3	112.4	266.1	14.10	151.48	127.8	108.4	257.1	13.29	154.2	124.0	112.4	249.5	12.60	151.48
4ATLCR-160	159.4	123.2	320.7	20.39	188.32	154.0	128.4	309.8	19.10	184.24	148.5	133.6	298.9	17.82	150.68
4ATLCR-200	193.9	145.08	390.2	30.76	227.2	187.5	151.48	377.2	28.90	154.88	181.6	157.44	365.4	27.20	218.96
4ATLCR-240	232.7	174.4	468.1	35.41	272.96	225.2	182	453.1	33.48	267.48	217.7	188.8	438.1	31.54	262.8

NOTE:

1MBH=10000 Btu/hr

QE: Actual Evaporator Cooling Capacity

QC: Condenser Total Heat Rejection

WC: Compressor Motor Power Input at 380v, 3Ø, 50Hz

P.D.: Water Pressure Drop (Ft.W.G.)

W.F.D : Water Flow Data

Performance Data (Reciprocating Compressor)

Air Cooled Chiller Evap. Leaving Water Temp. 45°F(Cont.)

REFRIGERANT = R22

Model	Condensing Temperature														
	125°F				130°F				135°F						
	QE	WC	Evap. W.F.D. (ΔT=10°F)		QC	QE	WC	Evap. W.F.D. (ΔT=10°F)		QC	QE	WC	Evap. W.F.D. (ΔT=10°F)		QC
	MBH	KW	GPM	PD	MBH	MBH	KW	GPM	PD	MBH	MBH	KW	GPM	PD	MBH
1ATLCR-5	5.5	4.7	10.9	0.13	6.74	5.2	4.87	10.5	0.12	6.56	5.0	5.04	10.0	0.12	6.4
1ATLCR-7.5	9.6	8.04	19.2	0.31	11.63	9.2	8.36	18.5	0.30	11.36	8.9	8.67	17.8	0.30	11.12
1ATLCR-10	11.3	9.52	22.6	0.45	13.68	10.9	9.91	21.8	0.45	13.37	10.4	10.3	20.9	0.45	13.1
1ATLCR-15	15.0	12.9	30.0	0.77	18.11	14.4	13.45	28.9	0.71	17.77	13.9	13.95	27.8	0.66	17.4
1ATLCR-20	16.0	14.75	32.1	0.89	19.72	15.4	15.3	30.8	0.82	19.24	14.8	15.8	29.5	0.75	18.8
1ATLCR-25	20.7	18.95	41.5	1.07	25.4	20.0	19.6	40.0	1.01	24.9	19.2	20.2	38.4	0.94	24.32
1ATLCR-30	24.8	22.8	49.7	1.43	30.12	23.9	23.5	47.8	1.34	29.44	22.9	24.2	45.9	1.24	28.7
1ATLCR-35	30.0	29.2	59.9	1.65	36.8	28.8	30.2	57.7	1.51	36.16	27.7	31.2	55.5	1.38	35.31
1ATLCR-40	36.0	34.6	72.0	2.6	44.18	34.6	35.8	69.3	2.6	43.16	33.2	36.9	66.4	2.6	42.14
1ATLCR-50	44.1	40.88	88.3	4.40	53.7	42.66	42.37	85.3	4.40	52.7	41.3	43.84	82.5	4.40	51.73
1ATLCR-60	52.9	48.9	105.8	5.28	64.31	51.01	50.7	102.0	5.02	62.95	49.3	52.4	98.6	4.77	61.9
2ATLCR-10	10.9	9.4	21.8	0.76	13.48	10.5	9.74	20.9	0.68	13.12	10.0	10.08	20.1	0.60	12.8
2ATLCR-15	19.2	16.08	38.5	0.95	23.26	18.5	16.72	37.0	0.91	22.72	17.8	17.34	35.6	0.86	22.24
2ATLCR-20	22.6	19.04	45.2	1.19	27.36	21.8	19.82	43.5	1.09	26.74	20.9	20.6	41.8	0.98	26.2
2ATLCR-30	29.8	25.8	59.9	2.45	36.22	28.7	26.9	57.7	2.28	35.54	27.7	27.9	55.7	2.12	34.8
2ATLCR-40	31.9	29.5	64.1	1.88	39.44	30.7	30.6	61.7	1.73	38.48	29.4	31.6	59.1	1.56	37.6
2ATLCR-50	41.3	37.9	83.0	2.94	50.8	39.8	39.2	80.0	2.72	49.8	38.2	40.4	76.8	2.49	48.64
2ATLCR-60	49.4	45.6	99.4	4.93	60.24	47.5	47	95.5	4.59	58.88	45.6	48.4	91.7	4.25	57.4
2ATLCR-70	59.6	58.4	119.8	5.82	73.6	57.4	60.4	115.3	5.39	72.32	55.2	62.4	111.0	4.98	70.62
2ATLCR-80	71.6	69.2	144.0	9.00	88.36	68.9	71.6	138.5	8.49	86.32	66.1	73.8	132.8	7.96	84.28
2ATLCR-100	87.8	81.76	176.6	9.09	107.4	84.9	84.74	170.6	8.57	105.4	82.1	87.68	165.0	8.07	103.46
2ATLCR-120	105.2	97.8	211.5	13.21	128.62	101.5	101.4	204.0	12.42	125.9	98.1	104.8	197.2	11.71	123.8
4ATLCR-80	63.8	59	128.3	4.27	78.88	61.3	61.2	123.4	4.00	76.96	58.7	63.2	118.2	3.71	75.2
4ATLCR-100	82.5	75.8	166.0	6.73	101.6	79.5	78.4	160.0	6.25	99.6	76.4	80.8	153.7	5.74	97.28
4ATLCR-120	98.8	91.2	198.7	9.39	120.48	95.0	94	191.1	8.87	117.76	91.2	96.8	183.4	8.35	114.8
4ATLCR-140	119.1	116.8	239.7	11.71	147.2	114.6	120.8	230.7	10.90	144.64	110.3	124.8	221.9	10.11	141.24
4ATLCR-160	143.1	138.4	288.0	16.53	176.72	137.7	143.2	277.1	15.25	172.64	132.0	147.6	265.6	13.90	168.56
4ATLCR-200	175.5	163.52	353.1	25.44	214.8	169.6	169.48	341.3	23.75	210.8	164.0	175.36	330.0	22.13	206.92
4ATLCR-240	210.3	195.6	423.1	29.61	257.24	202.8	202.8	408.1	27.68	251.8	196.0	209.6	394.4	25.92	247.6

NOTE:

1MBH=10000 Btu/hr

QE: Actual Evaporator Cooling Capacity

QC: Condenser Total Heat Rejection

WC: Compressor Motor Power Input at 380v, 3Ø, 50Hz

P.D.: Water Pressure Drop (Ft.W.G.)

W.F.D : Water Flow Data

Performance Data (Reciprocating Compressor)

Air Cooled Chiller Evap. Leaving Water Temp. 46°F

REFRIGERANT = R22	Model	Condensing Temperature														
		110°F				115°F				120°F						
		QE	WC	Evap. W.F.D. (ΔT=10°F)		QC	QE	WC	Evap. W.F.D. (ΔT=10°F)		QC	QE	WC	Evap. W.F.D. (ΔT=10°F)		QC
		MBH	KW	GPM	PD	MBH	MBH	KW	GPM	PD	MBH	MBH	KW	GPM	PD	MBH
1ATLCR-5	6.3	4.15	12.5	0.15	7.37	6.0	4.35	12.1	0.14	7.2	5.8	4.54	11.6	0.14	7.02	
1ATLCR-7.5	11.0	7.07	21.9	0.34	12.6	10.6	7.42	21.2	0.33	12.38	10.2	7.75	20.4	0.32	12.1	
1ATLCR-10	12.9	8.35	25.8	0.45	14.87	12.4	8.77	24.8	0.45	14.57	12.0	9.17	24.0	0.45	14.26	
1ATLCR-15	16.9	11.3	33.8	0.97	19.51	16.3	11.9	32.7	0.91	19.17	15.8	12.4	31.7	0.86	18.8	
1ATLCR-20	18.4	13.15	36.7	1.15	21.46	17.7	13.7	35.4	1.07	21	17.1	14.3	34.1	1.00	20.57	
1ATLCR-25	23.5	16.95	47.0	1.32	27.53	22.7	17.65	45.4	1.25	26.9	22.0	18.35	44.0	1.18	46.47	
1ATLCR-30	28.2	20.5	56.4	1.77	32.6	27.3	21.3	54.5	1.67	32.07	26.3	22.1	52.7	1.58	31.42	
1ATLCR-35	34.0	26.1	68.0	2.14	39.92	32.9	27.2	65.7	2.00	39.06	31.8	28.3	63.5	1.87	38.38	
1ATLCR-40	40.9	31	81.9	2.6	47.76	39.4	32.3	78.8	2.6	46.91	38.2	33.6	76.4	2.6	45.9	
1ATLCR-50	49.9	36.42	99.8	4.40	57.93	48.26	38.05	96.5	4.40	56.82	46.7	39.58	93.5	4.40	55.79	
1ATLCR-60	59.7	43.8	119.4	6.26	7.85	57.66	45.7	115.3	5.97	68.07	56.0	47.5	111.9	5.72	66.7	
2ATLCR-10	12.5	8.3	25.0	1.04	14.74	12.1	8.7	24.2	0.96	14.4	11.6	9.08	23.3	0.89	14.04	
2ATLCR-15	21.9	14.14	43.8	1.11	25.2	21.2	14.84	42.3	1.07	24.76	20.4	15.5	40.8	1.02	24.2	
2ATLCR-20	25.8	16.7	51.6	1.59	29.74	24.8	17.54	49.7	1.47	29.14	24.0	18.34	48.0	1.37	28.52	
2ATLCR-30	33.6	22.6	67.6	3.03	39.02	32.5	23.8	65.4	2.87	38.34	31.5	24.8	63.3	2.71	37.6	
2ATLCR-40	36.5	26.3	73.4	2.48	42.92	35.2	27.4	70.8	2.32	42	33.9	28.6	68.2	2.15	41.14	
2ATLCR-50	46.8	33.9	94.0	3.77	55.06	45.2	35.3	90.9	3.54	53.8	43.8	36.7	88.0	3.32	92.94	
2ATLCR-60	56.2	41	112.9	6.13	65.2	54.3	42.6	109.0	5.79	64.14	52.4	44.2	105.4	5.46	62.84	
2ATLCR-70	67.7	52.2	136.1	7.35	79.84	65.4	54.4	131.4	6.91	78.12	63.2	56.6	127.1	6.50	76.76	
2ATLCR-80	81.5	62	163.8	10.85	95.52	78.4	64.6	157.6	10.28	93.82	76.0	67.2	152.9	9.83	91.8	
2ATLCR-100	99.3	72.84	199.5	11.13	115.86	96.0	76.1	193.0	10.55	113.64	93.0	79.16	186.9	10.01	111.58	
2ATLCR-120	118.8	87.6	238.8	16.09	15.7	114.7	91.4	230.7	15.23	136.14	111.4	95	223.8	14.51	133.4	
4ATLCR-80	73.0	52.6	146.9	5.31	85.84	70.4	54.8	141.7	5.02	84	67.8	57.2	136.5	4.73	82.28	
4ATLCR-100	93.5	67.8	188.1	8.51	110.12	90.4	70.6	181.8	8.01	107.6	87.5	73.4	176.1	7.55	185.88	
4ATLCR-120	112.2	82	225.7	11.22	130.4	108.4	85.2	218.1	10.70	128.28	104.7	88.4	210.7	10.20	125.68	
4ATLCR-140	135.3	104.4	272.1	14.65	159.68	130.6	108.8	262.9	13.81	156.24	126.3	113.2	254.1	13.02	153.52	
4ATLCR-160	162.8	124	327.6	21.19	191.04	156.7	129.2	315.3	19.75	187.64	151.9	134.4	305.7	18.62	183.6	
4ATLCR-200	198.4	145.68	399.1	32.03	231.72	191.9	152.2	386.1	30.17	227.28	185.8	158.32	373.8	28.41	223.16	
4ATLCR-240	237.4	175.2	477.7	36.64	31.4	229.3	182.8	461.3	34.53	272.28	222.5	190	447.7	32.77	266.8	

NOTE:

1MBH=10000 Btu/hr

QE: Actual Evaporator Cooling Capacity

QC: Condenser Total Heat Rejection

WC: Compressor Motor Power Input at 380v, 3Ø, 50Hz

P.D.: Water Pressure Drop (Ft.W.G.)

W.F.D : Water Flow Data

Performance Data (Reciprocating Compressor)

Air Cooled Chiller Evap. Leaving Water Temp. 46°F(Cont.)

REFRIGERANT = R22

Model	Condensing Temperature														
	125°F				130°F				135°F						
	QE	WC	Evap. W.F.D. (ΔT=10°F)		QC	QE	WC	Evap. W.F.D. (ΔT=10°F)		QC	QE	WC	Evap. W.F.D. (ΔT=10°F)		QC
	MBH	KW	GPM	PD	MBH	MBH	KW	GPM	PD	MBH	MBH	KW	GPM	PD	MBH
1ATLCR-5	5.6	4.73	11.2	0.13	6.86	5.4	4.91	10.7	0.13	6.7	5.1	5.08	10.3	0.12	6.53
1ATLCR-7.5	9.8	8.08	19.7	0.32	11.84	9.5	8.41	19.0	0.31	11.6	9.1	8.73	18.2	0.30	11.32
1ATLCR-10	11.6	9.57	23.1	0.45	13.95	11.1	9.96	22.2	0.45	13.64	10.7	10.35	21.4	0.45	13.34
1ATLCR-15	15.3	12.95	30.6	0.80	18.42	14.8	13.5	29.5	0.75	18.08	14.2	14.05	28.5	0.69	17.7
1ATLCR-20	16.4	14.85	32.8	0.93	20	15.8	15.4	31.5	0.86	19.61	15.1	15.95	30.2	0.79	19.14
1ATLCR-25	21.2	19.05	42.4	1.12	25.93	20.4	19.75	40.9	1.05	25.35	19.7	20.4	39.3	0.98	24.8
1ATLCR-30	25.4	22.9	50.8	1.49	30.7	24.5	23.7	48.9	1.39	30.02	23.5	24.4	46.9	1.30	29.27
1ATLCR-35	30.6	29.4	61.3	1.73	37.53	29.5	30.4	59.0	1.60	36.85	28.4	31.4	56.8	1.46	35.99
1ATLCR-40	36.8	34.8	73.7	2.6	45.03	35.3	36.1	70.6	2.6	44.01	34.0	37.2	68.0	2.6	42.99
1ATLCR-50	45.2	41.14	90.3	4.40	54.73	43.65	42.66	87.3	4.40	53.7	42.2	44.16	84.4	4.40	52.72
1ATLCR-60	54.1	49.3	108.2	5.45	65.5	52.20	51.1	104.4	5.19	64.32	50.5	52.8	101.0	4.94	63.12
2ATLCR-10	11.2	9.46	22.4	0.81	13.72	10.7	9.82	21.5	0.73	13.4	10.3	10.16	20.5	0.64	13.06
2ATLCR-15	19.7	16.16	39.3	0.98	23.68	19.0	16.82	37.9	0.93	23.2	18.2	17.46	36.4	0.89	22.64
2ATLCR-20	23.1	19.14	46.3	1.26	27.9	22.2	19.92	44.5	1.15	27.28	21.4	20.7	42.7	1.04	26.68
2ATLCR-30	30.4	25.9	61.1	2.54	36.84	29.4	27	59.1	2.38	36.16	28.3	28.1	56.9	2.21	35.4
2ATLCR-40	32.7	29.7	65.6	1.98	40	31.4	30.8	63.1	1.81	39.22	30.1	31.9	60.5	1.65	38.28
2ATLCR-50	42.2	38.1	84.9	3.09	51.86	40.7	39.5	81.8	2.85	50.7	39.1	40.8	78.6	2.62	49.6
2ATLCR-60	50.6	45.8	101.7	5.13	61.4	48.7	47.4	97.9	4.79	60.04	46.7	48.8	93.9	4.44	58.54
2ATLCR-70	61.0	58.8	122.6	6.07	75.06	58.7	60.8	118.1	5.65	73.7	56.5	62.8	113.6	5.22	71.98
2ATLCR-80	73.3	69.6	147.4	9.32	90.06	70.3	72.2	141.3	8.75	88.02	67.7	74.4	136.1	8.26	85.98
2ATLCR-100	89.9	82.28	180.6	9.45	109.46	86.9	85.32	174.6	8.92	107.4	84.0	88.32	168.9	8.41	105.44
2ATLCR-120	107.6	98.6	216.3	13.72	131	103.9	102.2	208.8	12.93	128.64	100.5	105.6	202.0	12.21	126.24
4ATLCR-80	65.3	59.4	131.3	4.44	80	62.7	61.6	126.1	4.15	78.44	60.1	63.8	120.9	3.86	76.56
4ATLCR-100	84.4	76.2	169.8	7.04	103.72	81.3	79	163.5	6.53	101.4	78.1	81.6	157.2	6.03	99.2
4ATLCR-120	101.1	91.6	203.4	9.70	122.8	97.3	94.8	195.7	9.18	120.08	93.3	97.6	187.8	8.64	117.08
4ATLCR-140	121.8	117.6	245.1	12.21	150.12	117.3	121.6	236.1	11.39	147.4	112.9	125.6	227.1	10.58	143.96
4ATLCR-160	146.5	139.2	294.8	17.34	180.12	140.4	144.4	282.5	15.89	176.04	135.3	148.8	272.1	14.67	171.96
4ATLCR-200	179.6	164.56	361.3	26.62	218.92	173.6	170.64	349.2	24.89	214.8	167.9	176.64	337.7	23.24	210.88
4ATLCR-240	215.0	197.2	432.6	30.84	262	207.6	204.4	417.6	28.91	257.28	200.8	211.2	404.0	27.15	252.48

NOTE:

1MBH=10000 Btu/hr

QE: Actual Evaporator Cooling Capacity

QC: Condenser Total Heat Rejection

WC: Compressor Motor Power Input at 380v, 3Ø, 50Hz

P.D.: Water Pressure Drop (Ft.W.G.)

W.F.D : Water Flow Data

Performance Data (Reciprocating Compressor)

Air Cooled Chiller Evap. Leaving Water Temp. 42°F

REFRIGERANT = R134a

Model	Condensing Temperature														
	110°F				115°F				120°F						
	QE	WC	Evap. W.F.D. (ΔT=10°F)		QC	QE	WC	Evap. W.F.D. (ΔT=10°F)		QC	QE	WC	Evap. W.F.D. (ΔT=10°F)		QC
	MBH	KW	GPM	PD	MBH	MBH	KW	GPM	PD	MBH	MBH	KW	GPM	PD	MBH
1ATLCR-5	6.1	4.61	12.1	0.14	7.26	5.8	4.8	11.7	0.14	7.09	5.6	4.97	11.2	0.13	6.89
1ATLCR-7.5	7.3	5.54	14.7	0.27	8.76	7.0	5.78	14.1	0.26	8.53	6.8	6	13.5	0.25	8.32
1ATLCR-10	11.2	8.32	22.5	0.34	13.13	10.7	8.64	21.4	0.33	12.76	10.3	8.93	20.5	0.32	12.42
1ATLCR-15	13.8	10.45	27.6	0.65	16.14	13.2	10.9	26.5	0.58	15.73	12.7	11.3	25.4	0.53	15.28
1ATLCR-20	19.7	17.15	39.4	1.29	23.74	18.9	17.7	37.8	1.21	23.13	18.2	18.25	36.3	1.12	22.25
1ATLCR-30	24.4	20.6	48.8	1.39	28.83	23.4	21.3	46.7	1.29	28.04	22.4	21.9	44.8	1.19	27.33
1ATLCR-40	29.1	23.2	58.1	1.54	33.9	28.0	24	56.0	1.41	33.13	27.0	24.7	54.0	1.29	32.34
1ATLCR-50	33.7	28.4	67.4	2.54	39.74	32.5	29.3	65.0	2.37	38.89	31.4	30.1	62.7	2.20	39.4
1ATLCR-60	39.7	32.8	79.5	3.40	46.74	38.2	33.8	76.4	3.19	45.55	36.8	34.6	73.7	2.99	44.35
2ATLCR-10	12.1	9.22	24.3	0.98	14.52	11.7	9.6	23.3	0.89	14.18	11.2	9.94	22.4	0.81	13.78
2ATLCR-15	14.7	11.08	29.3	0.67	17.52	14.1	11.56	28.1	0.64	17.06	13.5	12	27.0	0.60	16.64
2ATLCR-20	22.5	16.64	44.9	1.17	26.26	21.4	17.28	42.9	1.05	25.52	20.5	17.86	41.1	0.94	24.84
2ATLCR-30	27.5	20.9	55.3	2.09	32.28	26.3	21.8	53.0	1.91	31.46	25.3	22.6	50.8	1.74	30.56
2ATLCR-40	39.2	34.3	78.7	2.83	47.48	37.6	35.4	75.6	2.63	46.26	36.1	36.5	72.6	2.43	44.5
2ATLCR-60	48.5	41.2	97.6	4.77	57.66	46.5	42.6	93.5	4.41	56.08	44.6	43.8	89.7	4.07	54.66
2ATLCR-80	57.8	46.4	116.3	6.41	67.8	55.7	48	112.1	6.02	66.26	53.8	49.4	108.1	5.65	64.68
2ATLCR-100	67.0	56.8	134.7	5.38	79.48	64.6	58.6	129.9	4.96	77.78	62.4	60.2	125.4	4.56	78.8
2ATLCR-120	79.1	65.6	159.0	7.68	93.48	76.0	67.6	152.9	7.03	91.1	73.3	69.2	147.4	6.46	88.7
4ATLCR-80	78.3	68.6	157.5	5.90	94.96	75.2	70.8	151.2	5.55	92.52	72.2	73	145.2	5.22	89
4ATLCR-120	97.0	82.4	195.2	9.14	115.32	92.9	85.2	187.0	8.59	112.16	89.1	87.6	179.3	8.07	109.32
4ATLCR-160	115.6	92.8	232.6	10.02	135.6	111.4	96	224.1	9.02	132.52	107.4	98.8	216.2	8.09	129.36
4ATLCR-200	133.9	113.6	269.4	13.45	158.96	129.1	117.2	259.9	12.08	155.56	124.7	120.4	250.9	10.79	157.6
4ATLCR-240	158.0	131.2	318.0	16.09	186.96	151.9	135.2	305.7	14.50	182.2	146.5	138.4	294.8	13.10	177.4

NOTE:

1MBH=10000 Btu/hr

QE: Actual Evaporator Cooling Capacity

QC: Condenser Total Heat Rejection

WC: Compressor Motor Power Input at 380v, 3Ø, 50Hz

P.D.: Water Pressure Drop (Ft.W.G.)

W.F.D : Water Flow Data

Performance Data (Reciprocating Compressor)

Air Cooled Chiller Evap. Leaving Water Temp. 42°F(Cont.)

REFRIGERANT = R134a

Model	Condensing Temperature									
	125°F					130°F				
	QE	WC	Evap. W.F.D. (ΔT=10°F)		QC	QE	WC	Evap. W.F.D. (ΔT=10°F)		QC
	MBH	KW	GPM	PD	MBH	MBH	KW	GPM	PD	MBH
1ATLCR-5	5.4	5.14	10.7	0.13	6.72	5.1	5.29	10.2	0.12	6.51
1ATLCR-7.5	6.5	6.22	12.9	0.28	8.12	6.2	6.42	12.4	0.24	7.88
1ATLCR-10	9.8	9.22	19.5	0.32	12.01	9.3	9.49	18.6	0.30	11.63
1ATLCR-15	12.1	11.7	24.2	0.42	14.87	11.5	12.05	23.1	0.40	14.43
1ATLCR-20	17.4	18.75	34.7	0.69	21.97	16.6	19.25	33.2	0.95	21.36
1ATLCR-30	21.4	22.6	42.9	1.13	26.54	20.5	23.1	40.9	1.00	25.79
1ATLCR-40	26.0	25.4	52.0	1.35	31.56	25.0	26.1	50.0	1.05	30.77
1ATLCR-50	30.2	30.9	60.3	2.01	37.02	29.0	31.7	58.1	1.87	36.16
1ATLCR-60	35.3	35.4	70.6	2.77	43.16	33.7	36.2	67.4	2.54	41.79
2ATLCR-10	10.7	10.28	21.4	0.47	13.44	10.2	10.58	20.4	0.63	13.02
2ATLCR-15	12.9	12.44	25.9	0.58	16.24	12.4	12.84	24.7	0.53	15.76
2ATLCR-20	19.5	18.44	39.0	0.88	24.02	18.6	18.98	37.1	0.69	23.26
2ATLCR-30	24.1	23.4	48.5	1.63	29.74	22.9	24.1	46.1	1.38	28.86
2ATLCR-40	34.6	37.5	69.5	2.08	43.94	33.1	38.5	66.5	2.03	42.72
2ATLCR-60	42.6	45.2	85.7	3.02	53.08	40.7	46.2	81.9	3.38	51.58
2ATLCR-80	51.7	50.8	104.0	4.65	63.12	49.8	52.2	100.0	4.90	61.54
2ATLCR-100	60.0	61.8	120.6	4.44	74.04	57.8	63.4	116.1	3.74	72.32
2ATLCR-120	70.3	70.8	141.3	6.12	86.32	67.0	72.4	134.7	5.12	83.58
4ATLCR-80	69.1	75	138.9	4.76	87.88	66.1	77	132.9	4.53	85.44
4ATLCR-120	85.2	90.4	171.4	6.82	106.16	81.4	92.4	163.8	7.01	103.16
4ATLCR-160	103.4	101.6	208.0	8.62	126.24	99.4	104.4	200.1	6.19	123.08
4ATLCR-200	119.9	123.6	241.3	12.61	148.08	115.4	126.8	232.3	8.13	144.64
4ATLCR-240	140.4	141.6	282.5	14.37	172.64	133.9	144.8	269.4	9.83	167.16

NOTE:

1MBH=10000 Btu/hr

QE: Actual Evaporator Cooling Capacity

QC: Condenser Total Heat Rejection

WC: Compressor Motor Power Input at 380v, 3Ø, 50Hz

P.D.: Water Pressure Drop (Ft.W.G.)

W.F.D : Water Flow Data

Performance Data (Reciprocating Compressor)

Air Cooled Chiller Evap. Leaving Water Temp. 42°F(Cont.)

REFRIGERANT = R134a

Model	Condensing Temperature									
	135°F					140°F				
	QE	WC	Evap. W.F.D. (ΔT=10°F)		QC	QE	WC	Evap. W.F.D. (ΔT=10°F)		QC
	MBH	KW	GPM	PD	MBH	MBH	KW	GPM	PD	MBH
1ATLCR-5	4.9	5.44	9.7	0.12	6.33	4.6	5.57	9.2	0.11	6.12
1ATLCR-7.5	5.9	6.61	11.8	0.24	7.67	5.6	6.79	11.2	0.23	7.43
1ATLCR-10	8.8	9.74	17.6	0.30	11.22	8.3	9.96	16.7	0.29	10.81
1ATLCR-15	11.0	12.4	21.9	0.34	13.95	10.4	12.7	20.8	0.28	13.51
1ATLCR-20	15.8	19.7	31.7	0.87	20.74	15.1	20.1	30.2	0.78	20.16
1ATLCR-30	19.5	23.7	39.0	0.90	25	18.6	24.2	37.1	0.81	24.22
1ATLCR-40	24.1	26.7	48.1	0.93	30.02	23.1	27.4	46.2	0.82	30.02
1ATLCR-50	27.9	32.5	55.8	1.71	35.31	26.8	33.2	53.6	1.56	34.46
1ATLCR-60	32.1	36.9	64.3	2.32	40.43	30.6	37.5	61.1	2.09	39.06
2ATLCR-10	9.7	10.88	19.4	0.55	12.66	9.2	11.14	18.4	0.45	12.24
2ATLCR-15	11.8	13.22	23.5	0.50	15.34	11.2	13.58	22.4	0.46	14.86
2ATLCR-20	17.6	19.48	35.2	0.57	22.44	16.7	19.92	33.3	0.45	21.62
2ATLCR-30	21.8	24.8	43.8	1.21	27.9	20.7	25.4	41.6	1.04	27.02
2ATLCR-40	31.5	39.4	63.3	1.83	41.48	30.0	40.2	60.3	1.64	40.32
2ATLCR-60	38.8	47.4	78.1	3.04	50	36.9	48.4	74.2	2.70	48.44
2ATLCR-80	47.9	53.4	96.2	4.54	60.04	46.0	54.8	92.4	4.18	58.16
2ATLCR-100	55.5	65	111.6	3.34	70.62	53.4	66.4	107.3	2.95	68.92
2ATLCR-120	64.0	73.8	128.6	4.48	80.86	60.8	75	122.3	3.81	78.12
4ATLCR-80	62.9	78.8	126.7	4.18	82.96	60.0	80.4	120.6	3.85	80.64
4ATLCR-120	77.6	94.8	156.1	6.49	100	73.8	96.8	148.5	5.97	96.88
4ATLCR-160	95.6	106.8	192.4	5.30	120.08	91.8	109.6	184.8	4.40	117.2
4ATLCR-200	111.0	130	223.3	6.84	141.24	106.6	132.8	214.5	5.58	137.84
4ATLCR-240	127.8	147.6	257.1	8.25	161.72	121.6	150	244.6	6.64	156.24

NOTE:

1MBH=10000 Btu/hr

QE: Actual Evaporator Cooling Capacity

QC: Condenser Total Heat Rejection

WC: Compressor Motor Power Input at 380v, 3Ø, 50Hz

P.D.: Water Pressure Drop (Ft.W.G.)

W.F.D : Water Flow Data

Performance Data (Reciprocating Compressor)

Air Cooled Chiller Evap. Leaving Water Temp. 44°F

REFRIGERANT=R134a

Model	Condensing Temperature														
	110°F				115°F				120°F						
	QE	WC	Evap. W.F.D. (ΔT=10°F)		QC	QE	WC	Evap. W.F.D. (ΔT=10°F)		QC	QE	WC	Evap. W.F.D. (ΔT=10°F)		QC
	MBH	KW	GPM	PD	MBH	MBH	KW	GPM	PD	MBH	MBH	KW	GPM	PD	MBH
1ATLCR-5	6.3	4.66	12.7	0.15	7.54	6.1	4.85	12.2	0.14	7.33	5.9	5.05	11.7	0.14	7.16
1ATLCR-7.5	7.6	5.6	15.3	0.27	9.07	7.3	5.85	14.7	0.27	8.87	7.1	6.05	14.1	0.26	8.63
1ATLCR-10	11.6	8.4	23.2	0.35	13.64	11.3	8.75	22.5	0.34	13.3	10.7	9.05	21.5	0.33	12.8
1ATLCR-15	14.5	10.5	29.0	0.72	16.71	13.8	11	27.6	0.65	16.37	13.3	11.4	26.6	0.59	15.86
1ATLCR-20	20.5	17.4	40.9	1.38	24.56	19.8	18	39.6	1.30	24.05	18.9	18.5	37.9	1.21	23.37
1ATLCR-30	25.4	21	50.8	1.49	29.85	24.4	21.7	48.8	1.39	29.17	23.4	22.3	46.7	1.29	28.31
1ATLCR-40	30.4	23.5	60.7	1.70	35.14	29.2	24.3	58.3	1.55	34.3	28.1	25.1	56.3	1.43	33.6
1ATLCR-50	35.1	28.8	70.3	2.75	41.28	33.9	29.7	67.9	2.58	40.26	32.8	30.6	65.5	2.40	39.23
1ATLCR-60	41.5	33.3	82.9	3.65	48.45	39.9	34.3	79.8	3.43	47.25	38.4	35.2	76.8	3.21	46.06
2ATLCR-10	12.7	9.32	25.4	1.07	15.08	12.2	9.7	24.4	0.99	14.66	11.7	10.1	23.5	0.90	14.32
2ATLCR-15	15.3	11.2	30.6	0.71	18.14	14.7	11.7	29.3	0.67	17.74	14.1	12.1	28.3	0.64	17.26
2ATLCR-20	23.2	16.8	46.4	1.27	27.28	22.5	17.5	45.0	1.18	26.6	21.5	18.1	43.0	1.05	25.6
2ATLCR-30	28.9	21	58.0	2.30	33.42	27.5	22	55.3	2.09	32.74	26.5	22.8	53.2	1.93	31.72
2ATLCR-40	40.7	34.8	81.9	3.03	49.12	39.4	36	79.2	2.85	48.1	37.7	37	75.7	2.63	46.74
2ATLCR-60	50.6	42	101.7	5.13	59.7	48.5	43.4	97.6	4.77	58.34	46.5	44.6	93.5	4.41	56.62
2ATLCR-80	60.4	47	121.5	6.90	70.28	58.1	48.6	116.7	6.45	68.6	56.0	50.2	112.6	6.07	67.2
2ATLCR-100	69.9	57.6	140.6	5.90	82.56	67.6	59.4	135.8	5.48	80.52	65.2	61.2	131.0	5.05	78.46
2ATLCR-120	82.5	66.6	165.8	8.40	96.9	79.4	68.6	159.7	7.75	94.5	76.4	70.4	153.5	7.11	92.12
4ATLCR-80	81.4	69.6	163.8	6.25	98.24	78.7	72	158.3	5.95	96.2	75.3	74	151.5	5.57	93.48
4ATLCR-120	101.1	84	203.4	9.70	119.4	97.0	86.8	195.2	9.14	116.68	92.9	89.2	187.0	8.59	113.24
4ATLCR-160	120.7	94	242.9	11.24	140.56	116.0	97.2	233.4	10.11	137.2	111.9	100.4	225.2	9.15	134.4
4ATLCR-200	139.7	115.2	281.1	15.13	165.12	135.0	118.8	271.6	13.76	161.04	130.2	122.4	262.0	12.39	156.92
4ATLCR-240	164.8	133.2	331.6	17.84	193.8	158.7	137.2	319.4	16.26	189	152.6	140.8	307.1	14.68	184.24

NOTE:

1MBH=10000 Btu/hr

QE: Actual Evaporator Cooling Capacity

QC: Condenser Total Heat Rejection

WC: Compressor Motor Power Input at 380v, 3Ø, 50Hz

P.D.: Water Pressure Drop (Ft.W.G.)

W.F.D : Water Flow Data

Performance Data (Reciprocating Compressor)

Air Cooled Chiller Evap. Leaving Water Temp. 44°F(Cont.)

REFRIGERANT = R134a

Model	Condensing Temperature									
	125°F					130°F				
	QE	WC	Evap. W.F.D. (ΔT=10°F)		QC	QE	WC	Evap. W.F.D. (ΔT=10°F)		QC
	MBH	KW	GPM	PD	MBH	MBH	KW	GPM	PD	MBH
1ATLCR-5	5.6	5.2	11.2	0.13	6.96	5.4	5.35	10.7	0.13	6.75
1ATLCR-7.5	6.8	6.3	13.5	0.29	8.42	6.4	6.5	12.9	0.25	8.18
1ATLCR-10	10.2	9.35	20.4	0.35	12.45	9.7	9.65	19.4	0.31	12.11
1ATLCR-15	12.6	11.9	25.2	0.45	15.35	12.1	12.2	24.2	0.46	15.01
1ATLCR-20	18.1	19.1	36.2	0.72	22.86	17.4	19.6	34.8	1.04	22.17
1ATLCR-30	22.3	23	44.7	1.22	27.63	21.3	23.6	42.6	1.08	26.78
1ATLCR-40	27.1	25.8	54.3	1.45	32.75	26.1	26.5	52.2	1.18	31.9
1ATLCR-50	31.6	31.4	63.1	2.18	38.55	30.4	32.2	60.7	2.06	37.53
1ATLCR-60	36.8	36.1	73.7	2.99	44.69	35.3	36.9	70.6	2.77	43.5
2ATLCR-10	11.2	10.4	22.4	0.50	13.92	10.7	10.7	21.4	0.72	13.5
2ATLCR-15	13.5	12.6	27.0	0.63	16.84	12.9	13	25.8	0.57	16.36
2ATLCR-20	20.4	18.7	40.8	0.96	24.9	19.4	19.3	38.8	0.79	24.22
2ATLCR-30	25.1	23.8	50.5	1.76	30.7	24.1	24.4	48.5	1.56	30.02
2ATLCR-40	36.0	38.2	72.3	2.24	45.72	34.6	39.2	69.6	2.24	44.34
2ATLCR-60	44.5	46	89.4	3.26	55.26	42.4	47.2	85.3	3.68	53.56
2ATLCR-80	54.0	51.6	108.5	5.03	65.5	51.9	53	104.4	5.30	63.8
2ATLCR-100	62.8	62.8	126.2	4.81	77.1	60.4	64.4	121.5	4.21	75.06
2ATLCR-120	73.3	72.2	147.4	6.62	89.38	70.3	73.8	141.3	5.81	87
4ATLCR-80	71.9	76.4	144.7	5.13	91.44	69.2	78.4	139.2	4.88	88.68
4ATLCR-120	88.9	92	178.8	7.37	110.52	84.8	94.4	170.6	7.47	107.12
4ATLCR-160	107.9	103.2	217.0	9.32	131	103.8	106	208.8	7.22	127.6
4ATLCR-200	125.5	125.6	252.5	13.72	154.2	120.7	128.8	242.9	9.65	150.12
4ATLCR-240	146.5	144.4	294.8	15.53	178.76	140.4	147.6	282.5	11.52	174

NOTE:

1MBH=10000 Btu/hr

QE: Actual Evaporator Cooling Capacity

QC: Condenser Total Heat Rejection

WC: Compressor Motor Power Input at 380v, 3Ø, 50Hz

P.D.: Water Pressure Drop (Ft.W.G.)

W.F.D : Water Flow Data

Performance Data (Reciprocating Compressor)

Air Cooled Chiller Evap. Leaving Water Temp. 44°F(Cont.)

REFRIGERANT=R134a

Model	Condensing Temperature									
	135°F					140°F				
	QE	WC	Evap. W.F.D. (ΔT=10°F)		QC	QE	WC	Evap. W.F.D. (ΔT=10°F)		QC
	MBH	KW	GPM	PD	MBH	MBH	KW	GPM	PD	MBH
1ATLCR-5	5.1	5.5	10.2	0.12	6.55	4.8	5.65	9.7	0.11	6.34
1ATLCR-7.5	6.1	6.7	12.3	0.24	7.94	5.8	6.9	11.7	0.24	7.71
1ATLCR-10	9.2	9.9	18.4	0.30	11.6	8.7	10.1	17.4	0.29	11.26
1ATLCR-15	11.4	12.6	22.9	0.39	14.5	10.9	12.9	21.8	0.34	14
1ATLCR-20	16.5	20.1	33.1	0.95	21.5	15.7	20.5	31.4	0.85	21
1ATLCR-30	20.5	24.2	40.9	1.00	25.93	19.4	24.7	38.9	0.90	25.25
1ATLCR-40	25.1	27.2	50.2	1.06	31.22	24.2	27.9	48.5	0.96	30.36
1ATLCR-50	29.2	33	58.3	1.89	36.67	28.1	33.8	56.3	1.75	35.82
1ATLCR-60	33.6	37.6	67.2	2.53	42.13	32.1	38.3	64.1	2.31	40.77
2ATLCR-10	10.2	11	20.3	0.62	13.1	9.7	11.3	19.3	0.53	12.68
2ATLCR-15	12.3	13.4	24.6	0.53	15.88	11.7	13.8	23.3	0.49	15.42
2ATLCR-20	18.4	19.8	36.8	0.67	23.2	17.4	20.2	34.8	0.55	22.52
2ATLCR-30	22.7	25.2	45.7	1.35	29	21.7	25.8	43.7	1.20	28
2ATLCR-40	32.9	40.2	66.2	2.02	43	31.2	41	62.8	1.80	42
2ATLCR-60	40.7	48.4	81.9	3.38	51.86	38.7	49.4	77.8	3.01	50.5
2ATLCR-80	49.9	54.4	100.3	4.92	62.44	48.2	55.8	96.9	4.60	60.72
2ATLCR-100	58.1	66	116.7	3.78	73.34	56.0	67.6	112.6	3.42	71.64
2ATLCR-120	66.9	75.2	134.4	5.09	84.26	63.8	76.6	128.3	4.45	81.54
4ATLCR-80	65.8	80.4	132.4	4.50	86	62.4	82	125.6	4.12	84
4ATLCR-120	81.4	96.8	163.8	7.01	103.72	77.3	98.8	155.6	6.45	101
4ATLCR-160	99.7	108.8	200.6	6.26	124.88	96.3	111.6	193.8	5.46	121.44
4ATLCR-200	116.0	132	233.4	8.28	146.68	111.9	135.2	225.2	7.11	143.28
4ATLCR-240	133.6	150.4	268.9	9.76	168.52	127.5	153.2	256.6	8.18	163.08

NOTE:

1MBH=10000 Btu/hr

QE: Actual Evaporator Cooling Capacity

QC: Condenser Total Heat Rejection

WC: Compressor Motor Power Input at 380v, 3Ø, 50Hz

P.D.: Water Pressure Drop (Ft.W.G.)

W.F.D : Water Flow Data

Performance Data (Reciprocating Compressor)

Air Cooled Chiller Evap. Leaving Water Temp. 45°F

REFRIGERANT = R134a

Model	Condensing Temperature														
	110°F				115°F				120°F						
	QE	WC	Evap. W.F.D. (ΔT=10°F)		QC	QE	WC	Evap. W.F.D. (ΔT=10°F)		QC	QE	WC	Evap. W.F.D. (ΔT=10°F)		QC
	MBH	KW	GPM	PD	MBH	MBH	KW	GPM	PD	MBH	MBH	KW	GPM	PD	MBH
1ATLCR-5	6.5	4.68	13.0	0.15	7.71	6.2	4.88	12.5	0.15	7.5	6.0	5.05	12.0	0.14	7.33
1ATLCR-7.5	7.8	5.6	15.7	0.28	9.28	7.5	5.85	15.1	0.27	9.04	7.2	6.1	14.5	0.26	8.83
1ATLCR-10	11.9	8.5	23.9	0.36	13.98	11.4	8.8	22.9	0.35	13.47	10.9	9.15	21.8	0.34	13.13
1ATLCR-15	14.8	10.6	29.6	0.75	17.13	14.2	11.1	28.4	0.69	16.68	13.6	11.5	27.2	0.62	16.24
1ATLCR-20	21.1	17.55	42.1	1.44	25.14	20.2	18.15	40.5	1.35	24.5	19.4	18.75	38.8	1.26	23.92
1ATLCR-30	26.1	21.2	52.2	1.56	30.57	25.0	21.9	50.1	1.45	29.75	24.0	22.6	48.0	1.35	28.96
1ATLCR-40	31.1	23.7	62.2	1.79	36	30.0	24.5	60.1	1.66	35.14	29.0	25.3	57.9	1.53	34.29
1ATLCR-50	36.2	29.1	72.3	2.89	42.14	34.8	30	69.6	2.70	41.28	33.6	30.9	67.2	2.53	39.24
1ATLCR-60	42.6	33.5	85.3	3.82	49.47	40.9	34.6	81.9	3.58	40.23	39.4	36.6	78.8	3.36	47.08
2ATLCR-10	13.0	9.36	26.1	1.13	15.42	12.5	9.76	25.0	1.04	15	12.0	10.1	24.0	0.95	14.66
2ATLCR-15	15.7	11.2	31.4	0.74	18.56	15.1	11.7	30.2	0.70	18.08	14.5	12.2	28.9	0.66	17.66
2ATLCR-20	23.9	17	47.8	1.35	27.96	22.9	17.6	45.7	1.22	26.94	21.8	18.3	43.7	1.10	26.26
2ATLCR-30	29.5	21.2	59.2	2.39	34.26	28.2	22.2	56.8	2.20	33.36	27.1	23	54.5	2.03	32.48
2ATLCR-40	41.9	35.1	84.2	3.18	50.28	40.3	36.3	80.9	2.97	49	38.6	37.5	77.7	2.76	47.84
2ATLCR-60	51.9	42.4	104.4	5.38	61.14	49.8	43.8	100.2	5.00	59.5	47.8	45.2	96.1	4.64	57.92
2ATLCR-80	61.9	47.4	124.5	7.18	72	59.8	49	120.1	6.77	70.28	57.6	50.6	115.9	6.37	68.58
2ATLCR-100	72.0	58.2	144.7	6.26	84.28	69.3	60	139.2	5.78	82.56	66.9	61.8	134.4	5.36	78.48
2ATLCR-120	84.9	67	170.6	8.90	98.94	81.5	69.2	163.8	8.18	80.46	78.4	73.2	157.6	7.54	94.16
4ATLCR-80	83.7	70.2	168.4	6.51	100.56	80.4	72.6	161.9	6.14	98	77.2	75	155.3	5.78	95.68
4ATLCR-120	103.8	84.8	208.8	10.07	122.28	99.6	87.6	200.4	9.50	119	95.5	90.4	192.2	8.94	115.84
4ATLCR-160	123.7	94.8	248.9	11.94	144	119.4	98	240.2	10.91	140.56	115.2	101.2	231.7	9.92	137.16
4ATLCR-200	143.8	116.4	289.3	16.30	168.56	138.4	120	278.4	14.74	165.12	133.6	123.6	268.9	13.37	156.96
4ATLCR-240	169.6	134	341.2	19.07	197.88	162.8	138.4	327.6	17.32	160.92	156.7	146.4	315.3	15.73	188.32

NOTE:

1MBH=10000 Btu/hr

QE: Actual Evaporator Cooling Capacity

QC: Condenser Total Heat Rejection

WC: Compressor Motor Power Input at 380v, 3Ø, 50Hz

P.D.: Water Pressure Drop (Ft.W.G.)

W.F.D : Water Flow Data

Performance Data (Reciprocating Compressor)

Air Cooled Chiller Evap. Leaving Water Temp. 45°F(Cont.)

REFRIGERANT = R134a

Model	Condensing Temperature									
	125°F					130°F				
	QE	WC	Evap. W.F.D. (ΔT=10°F)		QC	QE	WC	Evap. W.F.D. (ΔT=10°F)		QC
	MBH	KW	GPM	PD	MBH	MBH	KW	GPM	PD	MBH
1ATLCR-5	5.8	5.25	11.5	0.14	7.13	5.5	5.4	11.0	0.13	6.92
1ATLCR-7.5	6.9	6.35	13.9	0.26	8.6	6.6	6.55	13.2	0.25	8.36
1ATLCR-10	10.4	9.45	20.8	0.33	12.79	10.0	9.75	19.9	0.32	12.28
1ATLCR-15	13.0	11.95	26.0	0.56	15.76	12.4	12.35	24.8	0.49	15.32
1ATLCR-20	18.6	19.3	37.2	1.17	23.27	17.8	19.85	35.6	1.08	22.65
1ATLCR-30	23.0	23.2	46.0	1.25	28.18	22.0	23.9	43.9	1.15	27.36
1ATLCR-40	27.9	26	55.8	1.40	33.47	26.8	26.8	53.6	1.27	32.65
1ATLCR-50	32.4	31.7	64.8	2.35	39.4	31.2	32.6	62.4	2.18	38.38
1ATLCR-60	37.9	36.5	75.7	3.14	45.72	36.2	37.3	72.3	2.89	44.5
2ATLCR-10	11.5	10.5	23.1	0.87	14.26	11.0	10.8	22.0	0.77	13.84
2ATLCR-15	13.9	12.7	27.7	0.62	17.2	13.2	13.1	26.5	0.59	16.72
2ATLCR-20	20.8	18.9	41.6	0.97	25.58	19.9	19.5	39.9	0.86	24.56
2ATLCR-30	25.9	23.9	52.0	1.84	31.52	24.6	24.7	49.5	1.65	30.64
2ATLCR-40	37.0	38.6	74.4	2.55	46.54	35.4	39.7	71.1	2.33	45.3
2ATLCR-60	45.8	46.4	92.0	4.27	56.36	43.7	47.8	87.9	3.91	54.72
2ATLCR-80	55.5	52	111.5	5.97	66.94	53.4	53.6	107.3	5.57	65.3
2ATLCR-100	64.4	63.4	129.5	4.92	78.8	62.1	65.2	124.7	4.50	76.76
2ATLCR-120	75.4	73	151.5	6.89	91.44	72.0	74.6	144.7	6.17	89
4ATLCR-80	73.9	77.2	148.8	5.41	93.08	70.7	79.4	142.2	5.05	90.6
4ATLCR-120	91.4	92.8	184.0	8.38	112.72	87.4	95.6	175.8	7.83	109.44
4ATLCR-160	110.8	104	223.0	8.89	133.88	106.6	107.2	214.5	7.90	130.6
4ATLCR-200	128.7	126.8	259.0	11.96	157.6	124.0	130.4	249.5	10.59	153.52
4ATLCR-240	150.6	146	303.0	14.15	182.88	143.8	149.2	289.3	12.40	178

NOTE:

1MBH=10000 Btu/hr

QE: Actual Evaporator Cooling Capacity

QC: Condenser Total Heat Rejection

WC: Compressor Motor Power Input at 380v, 3Ø, 50Hz

P.D.: Water Pressure Drop (Ft.W.G.)

W.F.D : Water Flow Data

Performance Data (Reciprocating Compressor)

Air Cooled Chiller Evap. Leaving Water Temp. 45°F(Cont.)

REFRIGERANT = R134a

Model	Condensing Temperature									
	135°F					140°F				
	QE	WC	Evap. W.F.D. (ΔT=10°F)		QC	QE	WC	Evap. W.F.D. (ΔT=10°F)		QC
	MBH	KW	GPM	PD	MBH	MBH	KW	GPM	PD	MBH
1ATLCR-5	5.2	5.55	10.4	0.12	19.7	5.0	5.7	9.9	0.12	6.51
1ATLCR-7.5	6.3	6.75	12.6	0.25	8.12	6.0	6.95	12.0	0.24	7.88
1ATLCR-10	9.5	10	18.9	0.31	11.94	8.9	10.2	17.9	0.30	11.43
1ATLCR-15	11.8	12.75	23.6	0.43	14.84	11.2	13.05	22.4	0.37	14.36
1ATLCR-20	17.0	20.3	34.0	0.99	22	16.2	20.8	32.4	0.91	21.36
1ATLCR-30	20.9	24.4	41.9	1.05	26.54	20.0	25	39.9	0.95	25.76
1ATLCR-40	25.8	27.5	51.6	1.15	31.86	24.8	28.2	49.6	1.03	31.05
1ATLCR-50	30.0	33.4	60.0	2.01	37.53	28.8	34.2	57.7	1.84	36.5
1ATLCR-60	34.6	38.1	69.3	2.67	43.16	32.9	38.7	65.9	2.43	41.62
2ATLCR-10	10.4	11.1	20.9	0.67	39.4	9.9	11.4	19.9	0.58	13.02
2ATLCR-15	12.6	13.5	25.2	0.55	16.24	12.0	13.9	24.0	0.51	15.76
2ATLCR-20	18.9	20	37.8	0.73	23.88	17.9	20.4	35.8	0.60	22.86
2ATLCR-30	23.5	25.5	47.2	1.47	29.68	22.3	26.1	44.8	1.28	28.72
2ATLCR-40	33.8	40.6	68.0	2.13	44	32.3	41.6	64.8	1.93	42.72
2ATLCR-60	41.7	48.8	83.8	3.55	53.08	39.7	50	79.8	3.19	51.52
2ATLCR-80	51.3	55	103.2	5.19	63.72	49.4	56.4	99.2	4.82	62.1
2ATLCR-100	59.7	66.8	120.0	4.07	75.06	57.4	68.4	115.3	3.66	73
2ATLCR-120	68.9	76.2	138.5	5.52	86.32	65.5	77.4	131.7	4.81	83.24
4ATLCR-80	67.6	81.2	135.9	4.70	88	64.4	83.2	129.7	4.35	85.44
4ATLCR-120	83.3	97.6	167.6	7.27	106.16	79.4	100	159.7	6.73	103.04
4ATLCR-160	102.6	110	206.4	6.93	127.44	98.6	112.8	198.4	6.00	124.2
4ATLCR-200	119.2	133.6	239.9	9.22	150.12	114.6	136.8	230.7	7.89	146
4ATLCR-240	137.7	152.4	277.1	10.82	172.64	130.9	154.8	263.4	9.06	166.48

NOTE:

1MBH=10000 Btu/hr

QE: Actual Evaporator Cooling Capacity

QC: Condenser Total Heat Rejection

WC: Compressor Motor Power Input at 380v, 3Ø, 50Hz

P.D.: Water Pressure Drop (Ft.W.G.)

W.F.D : Water Flow Data

Performance Data (Reciprocating Compressor)

Air Cooled Chiller Evap. Leaving Water Temp. 46°F

REFRIGERANT = R134a

Model	Condensing Temperature														
	110°F				115°F				120°F						
	QE	WC	Evap. W.F.D. (ΔT=10°F)		QC	QE	WC	Evap. W.F.D. (ΔT=10°F)		QC	QE	WC	Evap. W.F.D. (ΔT=10°F)		QC
	MBH	KW	GPM	PD	MBH	MBH	KW	GPM	PD	MBH	MBH	KW	GPM	PD	MBH
1ATLCR-5	6.7	4.7	13.4	0.16	7.88	6.4	4.91	12.8	0.15	7.67	6.2	5.1	12.4	0.14	7.5
1ATLCR-7.5	8.1	5.64	16.1	0.28	9.48	7.7	5.91	15.5	0.27	9.24	7.4	6.15	14.9	0.27	9
1ATLCR-10	12.3	8.54	24.6	0.36	14.22	11.7	8.89	23.5	0.35	13.82	11.3	9.21	22.5	0.34	13.41
1ATLCR-15	15.2	10.65	30.4	0.79	17.5	14.6	11.15	29.1	0.72	17.05	14.0	11.6	27.9	0.66	48.6
1ATLCR-20	21.6	17.7	43.1	1.50	25.65	20.7	18.35	41.4	1.41	25.04	19.9	18.9	39.9	1.32	24.43
1ATLCR-30	26.8	21.4	53.5	1.62	31.22	25.7	22.1	51.4	1.52	30.4	24.7	22.8	49.3	1.41	29.61
1ATLCR-40	31.9	23.9	63.8	1.89	36.68	30.8	24.7	61.6	1.75	35.82	29.7	25.5	59.4	1.62	35
1ATLCR-50	37.0	29.3	74.0	3.01	43.16	35.7	30.2	71.3	2.82	42.14	34.5	31.1	68.9	2.65	41.28
1ATLCR-60	43.7	33.8	87.3	3.97	50.66	42.0	34.9	83.9	3.72	49.3	40.4	35.9	80.9	3.50	48.11
2ATLCR-10	13.4	9.4	26.8	1.19	15.76	12.8	9.82	25.7	1.10	15.34	12.4	10.2	24.7	1.01	15
2ATLCR-15	16.1	11.28	32.2	0.76	18.96	15.5	11.82	31.0	0.72	18.48	14.9	12.3	29.8	0.69	18
2ATLCR-20	24.6	17.08	49.1	1.43	28.44	23.5	17.78	46.9	1.30	27.64	22.5	18.42	45.0	1.18	26.82
2ATLCR-30	30.2	21.3	60.7	2.51	35	29.0	22.3	58.3	2.32	34.1	27.8	23.2	55.8	2.13	97.2
2ATLCR-40	42.9	35.4	86.3	3.31	51.3	41.2	36.7	82.8	3.09	50.08	39.7	37.8	79.7	2.89	48.86
2ATLCR-60	53.2	42.8	107.0	5.61	62.44	51.1	44.2	102.8	5.23	60.8	49.1	45.6	98.7	4.87	59.22
2ATLCR-80	63.5	47.8	127.6	7.47	73.36	61.2	49.4	123.1	7.05	71.64	59.1	51	118.9	6.66	70
2ATLCR-100	73.7	58.6	148.1	6.57	86.32	71.0	60.4	142.6	6.08	84.28	68.6	62.2	137.8	5.66	82.56
2ATLCR-120	86.9	67.6	174.7	9.33	101.32	83.5	69.8	167.9	8.62	98.6	80.5	71.8	161.7	7.97	96.22
4ATLCR-80	85.7	70.8	172.5	6.74	102.6	82.3	73.4	165.7	6.36	100.16	79.2	75.6	159.4	6.01	97.72
4ATLCR-120	106.4	85.6	214.0	10.42	124.88	102.2	88.4	205.5	9.85	121.6	98.1	91.2	197.4	9.29	118.44
4ATLCR-160	126.8	95.6	255.2	12.68	146.72	122.4	98.8	246.2	11.62	143.28	118.2	102	237.7	10.63	140
4ATLCR-200	147.2	117.2	296.2	17.28	172.64	141.8	120.8	285.2	15.72	168.56	137.0	124.4	275.7	14.35	165.12
4ATLCR-240	173.6	135.2	349.4	20.13	202.64	166.9	139.6	335.7	18.37	197.2	160.8	143.6	323.5	16.79	192.44

NOTE:

1MBH=10000 Btu/hr

QE: Actual Evaporator Cooling Capacity

QC: Condenser Total Heat Rejection

WC: Compressor Motor Power Input at 380v, 3Ø, 50Hz

P.D.: Water Pressure Drop (Ft.W.G.)

W.F.D : Water Flow Data

Performance Data (Reciprocating Compressor)

Air Cooled Chiller Evap. Leaving Water Temp. 46°F(Cont.)

REFRIGERANT = R134a

Model	Condensing Temperature									
	125°F					130°F				
	QE	WC	Evap. W.F.D. (ΔT=10°F)		QC	QE	WC	Evap. W.F.D. (ΔT=10°F)		QC
	MBH	KW	GPM	PD	MBH	MBH	KW	GPM	PD	MBH
1ATLCR-5	5.9	5.46	11.8	0.14	7.3	5.7	5.46	11.3	0.13	7.09
1ATLCR-7.5	7.1	6.38	14.3	0.26	8.8	6.8	6.61	13.6	0.26	8.53
1ATLCR-10	10.7	9.52	21.4	0.33	13	10.2	9.82	20.4	0.32	12.6
1ATLCR-15	13.3	12.05	26.7	0.59	16.13	12.7	12.45	25.5	0.53	15.66
1ATLCR-20	19.1	19.5	38.1	1.22	23.78	18.3	20	36.5	1.13	23.13
1ATLCR-30	23.6	23.5	47.2	1.31	28.8	22.6	24.1	45.1	1.20	27.97
1ATLCR-40	28.6	26.3	57.3	1.49	34.3	27.5	27	55.1	1.36	33.37
1ATLCR-50	33.3	32	66.5	2.48	40.26	32.0	32.9	64.1	2.30	39.23
1ATLCR-60	38.9	36.9	77.8	3.28	46.74	37.2	37.7	74.4	3.04	45.55
2ATLCR-10	11.8	10.92	23.6	0.92	14.6	11.3	10.92	22.7	0.83	14.18
2ATLCR-15	14.3	12.76	28.5	0.65	17.6	13.6	13.22	27.2	0.61	17.06
2ATLCR-20	21.4	19.04	42.9	1.05	26	20.4	19.64	40.8	0.92	25.2
2ATLCR-30	26.5	24.1	53.4	1.94	32.26	25.3	24.9	50.9	1.75	31.32
2ATLCR-40	38.0	39	76.3	2.67	47.56	36.3	40	73.0	2.46	46.26
2ATLCR-60	47.0	47	94.4	4.49	57.6	44.9	48.2	90.2	4.11	55.94
2ATLCR-80	57.0	52.6	114.5	6.25	68.6	54.8	54	110.1	5.84	66.74
2ATLCR-100	66.2	64	133.1	5.24	80.52	63.8	65.8	128.2	4.80	78.46
2ATLCR-120	77.4	73.8	155.6	7.32	93.48	74.0	75.4	148.8	6.60	91.1
4ATLCR-80	75.8	78	152.6	5.63	95.12	72.6	80	146.0	5.26	92.52
4ATLCR-120	93.9	94	188.9	8.72	115.2	89.7	96.4	180.4	8.14	111.88
4ATLCR-160	113.8	105.2	229.0	9.60	137.2	109.5	108	220.3	8.57	133.48
4ATLCR-200	132.3	128	266.1	12.98	161.04	127.4	131.6	256.3	11.57	156.92
4ATLCR-240	154.7	147.6	311.2	15.21	186.96	147.9	150.8	297.5	13.45	182.2

NOTE:

1MBH=10000 Btu/hr

QE: Actual Evaporator Cooling Capacity

QC: Condenser Total Heat Rejection

WC: Compressor Motor Power Input at 380v, 3Ø, 50Hz

P.D.: Water Pressure Drop (Ft.W.G.)

W.F.D : Water Flow Data

Performance Data (Reciprocating Compressor)

Air Cooled Chiller Evap. Leaving Water Temp. 46°F(Cont.)

REFRIGERANT = R134a

Model	Condensing Temperature									
	135°F					140°F				
	QE	WC	Evap. W.F.D. (ΔT=10°F)		QC	QE	WC	Evap. W.F.D. (ΔT=10°F)		QC
	MBH	KW	GPM	PD	MBH	MBH	KW	GPM	PD	MBH
1ATLCR-5	5.4	5.62	10.7	0.13	6.85	5.1	5.77	10.2	0.12	6.65
1ATLCR-7.5	6.5	6.82	13.0	0.25	8.29	6.2	7.02	12.3	0.24	8.05
1ATLCR-10	9.7	10.1	19.4	0.31	12.18	9.2	10.35	18.4	0.30	11.73
1ATLCR-15	12.1	12.85	24.2	0.46	15.18	11.5	13.2	23.0	0.40	14.67
1ATLCR-20	17.4	20.6	34.9	1.04	22.48	16.6	21	33.2	0.95	21.93
1ATLCR-30	21.5	24.7	43.1	1.10	27.16	20.5	25.3	41.0	1.00	26.34
1ATLCR-40	26.5	27.8	53.0	1.23	35.4	25.5	28.5	50.9	1.10	31.76
1ATLCR-50	30.8	33.7	61.6	2.13	38.38	29.7	34.6	59.3	1.96	37.36
1ATLCR-60	35.5	38.5	71.0	2.79	36.67	33.8	39.2	67.7	2.56	51.66
2ATLCR-10	10.7	11.24	21.5	0.73	13.7	10.2	11.54	20.4	0.63	13.3
2ATLCR-15	13.0	13.64	25.9	0.57	16.58	12.3	14.04	24.6	0.53	16.1
2ATLCR-20	19.4	20.2	38.8	0.79	24.36	18.4	20.7	36.7	0.66	23.46
2ATLCR-30	24.1	25.7	48.5	1.56	30.36	22.9	26.4	46.0	1.37	29.34
2ATLCR-40	34.7	41.2	69.7	2.25	44.96	33.1	42	66.5	2.03	43.86
2ATLCR-60	42.8	49.4	86.1	3.75	54.32	40.8	50.6	82.0	3.39	52.68
2ATLCR-80	52.7	55.6	105.9	5.44	190.8	50.7	57	101.8	5.06	63.52
2ATLCR-100	61.3	67.4	123.2	4.36	76.76	59.0	69.2	118.6	3.95	74.72
2ATLCR-120	70.6	77	141.9	5.88	73.34	67.4	78.4	135.4	5.19	103.32
4ATLCR-80	69.3	82.4	139.5	4.90	89.92	66.1	84	132.9	4.53	87.72
4ATLCR-120	85.6	98.8	172.2	7.58	108.64	81.5	101.2	164.0	7.03	105.36
4ATLCR-160	105.3	111.2	211.8	7.58	381.6	101.2	114	203.6	6.61	127.04
4ATLCR-200	122.5	134.8	246.5	10.16	153.52	117.9	138.4	237.2	8.83	149.44
4ATLCR-240	141.1	154	283.9	11.69	146.68	134.6	156.8	270.8	10.01	206.64

NOTE:

1MBH=10000 Btu/hr

QE: Actual Evaporator Cooling Capacity

QC: Condenser Total Heat Rejection

WC: Compressor Motor Power Input at 380v, 3Ø, 50Hz

P.D.: Water Pressure Drop (Ft.W.G.)

W.F.D : Water Flow Data

Performance Data (Screw Compressor)

Air Cooled Chiller Evap. Leaving Water Temp. 42°F

REFRIGERANT = R22

Model	Condensing Temperature														
	110°F				115°F				120°F						
	QE	WC	Evap. W.F.D. (ΔT=10°F)		QC	QE	WC	Evap. W.F.D. (ΔT=10°F)		QC	QE	WC	Evap. W.F.D. (ΔT=10°F)		QC
	MBH	KW	GPM	PD	MBH	MBH	KW	GPM	PD	MBH	MBH	KW	GPM	PD	MBH
1ATLCS-50	41	32.2	81.9	3.58	51.4	39.7	33.9	79.3	3.39	50.7	38.4	35.8	76.7	3.21	49.9
1ATLCS-60	51.4	39.9	102.7	5.07	64.3	49.8	42.1	99.5	4.84	63.4	48.3	44.4	96.5	4.62	62.6
1ATLCS-70	59.9	48.2	119.9	5.52	75.6	57.9	50.7	115.6	5.13	74.3	55.6	53.4	111.1	4.69	72.8
1ATLCS-80	69.7	54.4	139.2	7.56	87.3	66.9	56.9	133.9	7.06	85.4	64.2	59.9	128.3	6.54	83.5
1ATLCS-90	83.79	62.6	167.6	10.19	103.9	80.9	65.7	161.9	9.68	102.3	77.9	69.2	155.9	9.12	100.4
1ATLCS-100	92.4	71.65	184.5	9.79	115.4	89.2	74.9	178.3	9.25	113.5	86.1	78.9	172.1	8.69	111.6
1ATLCS-110	99.8	74.7	199.4	11.12	123.9	96.0	78.6	192.0	10.46	121.5	92.2	83	184.4	9.79	119.1
1ATLCS-125	113.7	85.1	227.3	14.87	141.3	109.5	89.7	218.9	13.99	138.5	105.2	94.7	210.2	13.07	135.8
1ATLCS-140	134.7	104.5	269.3	14.39	168.5	130.5	109.5	260.8	13.62	165.9	125.7	114.6	251.4	12.77	162.8
1ATLCS-180	176.5	128.5	352.9	*	218.0	170.80	134.4	341.6	*	214.4	165.2	140.9	330.4	*	210.9
1ATLCS-210	205.4	146.9	410.7	*	252.9	199.11	153.8	398.3	*	248.9	192.9	160.9	385.7	*	245.1
2ATLCS-100	81.9	64.3	163.7	7.95	102.7	79.3	67.9	158.5	7.49	101.3	76.7	71.5	153.3	7.03	99.7
2ATLCS-120	102.7	79.9	205.3	12.56	128.6	99.5	84	198.9	11.88	126.7	96.5	88.7	192.9	11.25	125.1
2ATLCS-140	119.9	96.2	239.6	11.71	151.0	115.6	101.2	231.2	10.95	148.4	111.0	106.6	222.0	10.12	145.6
2ATLCS-160	139.1	108.5	278.1	15.37	174.2	133.9	113.9	267.7	14.15	170.8	128.3	119.7	256.5	12.82	167.0
2ATLCS-180	167.5	124.9	334.9	23.62	207.9	161.9	131.3	323.7	22.75	204.4	155.9	138.3	311.7	21.82	200.6
2ATLCS-200	184.5	142.9	368.9	27.69	230.8	178.3	149.9	356.5	25.92	226.9	172.1	157.9	344.1	24.15	223.1
2ATLCS-220	199.5	149.3	398.9	28.49	247.9	192.1	157.3	384.1	26.59	243.1	184.5	166.1	368.9	24.62	238.2
2ATLCS-250	227.3	170	454.5	29.65	282.4	218.9	179.3	437.7	30.49	276.9	210.3	189.3	420.4	28.27	271.5
2ATLCS-280	269.3	208.9	538.5	31.82	336.9	260.9	218.9	521.7	29.95	331.8	251.5	229.2	502.8	27.85	325.7
4ATLCS-200	163.7	128.5	327.3	21.73	205.3	158.5	135.7	316.9	20.25	202.5	153.3	142.9	306.5	18.76	199.5
4ATLCS-240	205.3	159.7	410.5	27.98	256.9	198.9	168	397.7	26.34	253.4	192.9	177.3	385.7	24.79	250.2
4ATLCS-280	239.7	192.5	479.3	26.22	302.1	231.3	202.5	462.5	24.37	296.9	222.1	213.3	444.1	22.32	291.1
4ATLCS-320	278.1	216.9	556.1	15.46	348.4	267.7	227.7	535.3	14.25	341.5	256.5	239.3	512.9	12.93	333.9
4ATLCS-360	334.9	249.7	669.7	23.71	415.8	323.7	262.5	647.3	22.85	408.8	311.7	276.5	623.3	21.93	401.2

Note:

1MBH=10000 Btu/hr

QE: Actual Evaporator Cooling Capacity

QC: Condenser Total Heat Rejection

WC: Compressor Motor Power Input at 380v, 3Ø, 50Hz

P.D.: Water Pressure Drop (Ft.W.G.)

W.F.D : Water Flow Data

Performance Data (Screw Compressor)

Air Cooled Chiller Evap. Leaving Water Temp. 42°F(Cont.)

REFRIGERANT = R22

Model	Condensing Temperature														
	125°F				130°F				135°F						
	QE	WC	Evap. W.F.D. (ΔT=10°F)		QC	QE	WC	Evap. W.F.D. (ΔT=10°F)		QC	QE	WC	Evap. W.F.D. (ΔT=10°F)		QC
	MBH	KW	GPM	PD	MBH	MBH	KW	GPM	PD	MBH	MBH	KW	GPM	PD	MBH
1ATLCS-50	37.2	37.8	74.3	3.04	49.4	35.8	39.9	71.5	2.84	48.7	34.5	42.2	68.9	2.65	48.1
1ATLCS-60	46.6	46.9	93.1	4.38	61.8	44.9	49.6	89.9	4.15	60.9	43.3	52.4	86.5	3.91	60.2
1ATLCS-70	53.2	56.3	106.3	4.24	71.4	50.6	59.4	101.1	3.75	69.8	47.9	62.7	95.9	3.26	68.2
1ATLCS-80	61.3	62.9	122.5	5.99	81.7	58.2	66.3	116.3	5.42	79.7	55.1	69.9	110.1	4.84	77.6
1ATLCS-90	74.8	72.8	149.5	8.52	98.4	71.5	76.7	142.9	7.89	96.4	67.9	80.9	135.9	7.25	94.1
1ATLCS-100	82.8	83.3	165.5	8.11	109.8	79.4	88.2	158.7	7.51	107.9	75.9	93.5	151.9	6.91	106.2
1ATLCS-110	88.4	88	176.7	9.09	116.9	84.4	93.5	168.7	8.39	114.7	80.4	99.3	160.7	7.69	112.5
1ATLCS-125	100.8	100.3	201.5	12.16	133.3	96.2	106.5	192.3	11.19	130.7	91.6	113.2	183.1	10.22	128.2
1ATLCS-140	120.7	120.23	241.3	11.86	159.7	115.1	126.2	230.1	10.85	155.9	108.9	132.3	217.7	9.72	151.7
1ATLCS-180	159.4	147.9	318.7	*	207.2	153.40	155.2	306.8	*	203.7	147.3	163	294.6	*	200.1
1ATLCS-210	186.3	168.8	372.5	*	240.9	179.50	177.1	359.0	*	236.9	172.5	185.9	345.0	*	232.8
2ATLCS-100	74.3	75.5	148.5	6.59	98.7	71.5	79.9	142.9	6.11	97.4	68.9	84.3	137.7	5.65	96.2
2ATLCS-120	93.1	93.7	186.1	10.53	123.4	89.9	99	179.7	9.86	121.9	86.5	104.7	172.9	9.14	120.3
2ATLCS-140	106.3	112.5	212.4	9.26	142.7	101.0	118.6	202.0	8.32	139.4	95.8	125.2	191.6	7.38	136.4
2ATLCS-160	122.5	125.9	244.9	11.47	163.3	116.3	132.5	232.5	10.01	159.1	110.0	139.6	220.0	8.54	155.2
2ATLCS-180	149.5	145.5	298.9	20.84	196.6	142.9	153.5	285.6	19.83	192.6	135.9	161.8	271.6	18.74	188.2
2ATLCS-200	165.5	166.5	330.9	22.26	219.4	158.7	176.3	317.3	20.30	215.7	151.8	186.8	303.6	18.35	212.3
2ATLCS-220	176.7	176	353.3	22.63	233.7	168.7	186.9	337.3	20.56	229.1	160.6	198.4	321.2	18.50	224.9
2ATLCS-250	201.5	200.5	402.9	23.01	266.5	192.3	212.9	384.5	23.63	261.2	183.0	226.2	366.0	21.26	256.3
2ATLCS-280	241.3	240.5	482.5	25.59	319.2	230.1	252.3	460.1	23.09	311.8	217.7	264.5	435.2	20.33	303.3
4ATLCS-200	148.5	150.8	296.9	17.38	197.4	142.9	159.7	285.7	15.78	194.5	137.6	168.5	275.3	14.29	192.2
4ATLCS-240	186.1	187.3	372.1	23.05	246.8	179.7	198.1	359.4	21.39	243.9	172.9	209.2	345.7	19.64	240.6
4ATLCS-280	212.5	224.9	424.9	20.19	285.4	202.1	237.3	404.1	17.87	278.9	191.7	250.5	383.2	15.55	272.8
4ATLCS-320	244.9	251.7	489.7	11.57	326.5	232.5	264.9	464.8	10.10	318.2	220.0	279.2	440.0	8.64	310.5
4ATLCS-360	298.9	290.9	597.7	20.94	393.2	285.7	306.9	571.2	19.93	385.1	271.7	323.6	543.2	18.84	376.5

Note:

- 1MBH=10000 Btu/hr
- QE: Actual Evaporator Cooling Capacity
- QC: Condenser Total Heat Rejection
- WC: Compressor Motor Power Input at 380v, 3Ø, 50Hz
- P.D.: Water Pressure Drop (Ft.W.G.)
- W.F.D : Water Flow Data

Performance Data (Screw Compressor)

Air Cooled Chiller Evap. Leaving Water Temp. 44°F

REFRIGERANT = R22

Model	Condensing Temperature														
	110°F				115°F				120°F						
	QE	WC	Evap. W.F.D. (ΔT=10°F)		QC	QE	WC	Evap. W.F.D. (ΔT=10°F)		QC	QE	WC	Evap. W.F.D. (ΔT=10°F)		QC
	MBH	KW	GPM	PD	MBH	MBH	KW	GPM	PD	MBH	MBH	KW	GPM	PD	MBH
1ATLCS-50	42.7	32.5	85.3	3.82	53.2	41.4	34.3	82.7	3.64	52.5	40.1	36.2	80.1	3.45	51.8
1ATLCS-60	53.5	40.3	106.9	5.37	66.5	51.9	42.5	103.7	5.14	65.6	50.3	44.9	100.5	4.91	64.7
1ATLCS-70	62.5	48.6	124.9	5.99	78.2	60.2	51	120.3	5.56	76.7	57.9	53.8	115.7	5.12	75.2
1ATLCS-80	72.4	54.8	144.7	8.07	90.1	69.7	57.5	139.3	7.56	88.3	66.9	60.4	133.7	7.04	86.3
1ATLCS-90	87.1	62.9	174.1	10.82	107.5	84.2	66.2	168.3	10.28	105.6	81.1	69.7	162.1	9.69	103.7
1ATLCS-100	96.1	71.9	192.1	10.47	119.4	92.8	75.5	185.5	9.88	117.2	89.6	79.3	179.1	9.32	115.2
1ATLCS-110	103.9	75.5	207.7	11.85	128.3	100.1	79.4	200.1	11.18	125.8	96.2	83.7	192.3	10.49	123.2
1ATLCS-125	118.4	85.9	236.7	15.86	146.1	113.9	90.3	227.8	14.93	143.2	109.5	95.3	219.0	14.00	140.4
1ATLCS-140	139.8	105.4	279.4	15.30	173.9	135.4	110.3	270.8	14.53	171.2	130.7	115.6	261.4	13.68	168.2
1ATLCS-180	183.6	129.6	367.3	*	225.7	178.01	135.6	356.1	*	221.9	172.2	142.2	344.2	*	218.2
1ATLCS-210	213.8	148.4	427.5	*	261.9	207.41	155	414.9	*	257.7	200.9	162.4	401.6	*	253.4
2ATLCS-100	85.3	64.9	170.5	8.55	106.3	82.7	68.5	165.3	8.09	104.9	80.1	72.3	160.1	7.63	103.4
2ATLCS-120	106.9	80.5	213.7	13.44	132.9	103.7	84.9	207.3	12.77	131.2	100.5	89.7	200.9	12.08	129.4
2ATLCS-140	124.9	97	249.7	12.62	156.3	120.3	102	240.5	11.79	153.4	115.7	107.5	231.3	10.96	150.4
2ATLCS-160	144.7	109.5	289.3	16.69	180.2	139.3	114.9	278.5	15.42	176.5	133.7	120.7	267.2	14.09	172.7
2ATLCS-180	174.1	125.9	348.1	24.63	214.9	168.2	132.3	336.4	23.74	211.2	162.2	139.2	324.1	22.78	207.1
2ATLCS-200	192.1	143.9	384.1	29.88	238.7	185.5	150.9	370.9	27.99	234.4	179.0	158.5	358.1	26.15	230.4
2ATLCS-220	207.7	150.9	415.3	30.61	256.6	200.1	158.7	400.1	28.65	251.5	192.3	167.2	384.4	26.63	246.4
2ATLCS-250	236.7	171.9	473.3	32.07	292.4	227.9	180.7	455.7	32.81	286.4	219.0	190.6	438.0	30.53	280.8
2ATLCS-280	279.5	210.9	558.9	34.08	347.8	270.9	220.7	541.7	32.17	342.4	261.5	231.2	522.8	30.07	336.3
4ATLCS-200	170.5	129.7	340.9	23.69	212.5	165.3	136.9	330.5	22.19	209.6	160.1	144.5	320.1	20.71	206.8
4ATLCS-240	213.7	160.9	427.3	30.15	265.8	207.3	169.7	414.5	28.49	262.3	200.9	179.3	401.7	26.85	258.9
4ATLCS-280	249.7	194	499.3	28.46	312.6	240.5	204	480.9	26.41	306.6	231.3	214.9	462.5	24.37	300.8
4ATLCS-320	289.3	218.9	578.5	16.79	360.2	278.5	229.7	556.8	15.52	352.9	267.3	241.3	534.5	14.19	345.4
4ATLCS-360	348.1	251.7	696.1	24.73	429.7	336.5	264.5	672.9	23.84	422.2	324.1	278.4	648.0	22.87	414.2

Note:

1MBH=10000 Btu/hr

QE: Actual Evaporator Cooling Capacity

QC: Condenser Total Heat Rejection

WC: Compressor Motor Power Input at 380v, 3Ø, 50Hz

P.D.: Water Pressure Drop (Ft.W.G.)

W.F.D : Water Flow Data

Performance Data (Screw Compressor)

Air Cooled Chiller Evap. Leaving Water Temp. 44°F(Cont.)

REFRIGERANT=R22	Model	Condensing Temperature														
		125°F				130°F				135°F						
		QE	WC	Evap. W.F.D. (ΔT=10°F)		QC	QE	WC	Evap. W.F.D. (ΔT=10°F)		QC	QE	WC	Evap. W.F.D. (ΔT=10°F)		QC
		MBH	KW	GPM	PD	MBH	MBH	KW	GPM	PD	MBH	MBH	KW	GPM	PD	MBH
1ATLCS-50	38.7	38.2	77.3	3.25	50.9	37.4	40.4	74.7	3.06	50.5	35.9	42.7	71.9	2.86	49.8	
1ATLCS-60	48.9	47.4	97.01	4.67	63.9	46.9	50	93.7	4.42	63.1	45.2	52.9	90.3	4.18	62.3	
1ATLCS-70	55.4	56.7	110.7	4.65	73.7	52.8	59.8	105.5	4.16	72.2	50.1	63.1	100.1	3.65	70.5	
1ATLCS-80	63.9	63.5	127.7	6.48	84.5	60.8	66.8	121.5	5.89	82.4	57.54	70.3	114.9	5.28	80.3	
1ATLCS-90	77.9	73.4	155.7	9.09	101.7	74.5	77.3	148.9	8.46	99.5	70.9	81.5	141.7	7.79	97.2	
1ATLCS-100	86.2	83.6	172.3	8.71	113.3	82.8	88.4	165.5	8.11	111.4	79.2	93.7	158.3	7.46	109.4	
1ATLCS-110	92.1	88.6	184.1	9.76	120.8	87.9	93.9	175.9	9.03	118.4	83.9	99.8	167.7	8.30	116.1	
1ATLCS-125	104.9	100.9	209.9	13.04	137.7	100.3	107	200.5	12.05	134.9	95.6	113.7	191.1	11.06	132.4	
1ATLCS-140	125.7	121.2	251.3	12.77	164.9	119.9	127	239.9	11.74	161.1	113.7	133.2	227.4	10.61	156.9	
1ATLCS-180	166.2	149.2	332.3	*	214.5	160.01	156.6	320.1	*	210.8	153.8	164.4	307.5	*	207.0	
1ATLCS-210	194.2	170.2	388.3	*	249.3	187.11	178.5	374.3	*	244.9	180.1	187.4	360.1	*	240.7	
2ATLCS-100	77.3	76.3	154.5	7.14	101.9	74.7	80.7	149.3	6.68	100.8	71.8	85.2	143.6	6.17	99.4	
2ATLCS-120	97.1	94.7	194.1	11.38	127.8	93.7	100	187.4	10.66	126.1	90.2	105.6	180.4	9.93	124.4	
2ATLCS-140	110.7	113.3	221.3	10.06	147.4	105.5	119.5	210.9	9.12	144.2	100.0	126	200.0	8.13	140.8	
2ATLCS-160	127.7	126.9	255.3	12.69	168.8	121.5	133.5	242.9	11.23	164.7	114.8	140.5	229.7	9.67	160.3	
2ATLCS-180	155.7	146.7	311.3	21.79	203.2	148.9	154.5	297.7	20.75	198.9	141.6	162.9	283.3	19.64	194.4	
2ATLCS-200	172.3	167	344.5	24.19	226.4	165.5	176.7	330.9	22.26	222.7	158.2	187.3	316.5	20.19	218.9	
2ATLCS-220	184.1	177	368.1	24.53	241.5	175.9	187.9	351.7	22.42	236.8	167.6	199.5	335.3	20.31	232.2	
2ATLCS-250	209.9	201.9	419.7	25.17	275.3	200.5	214.1	400.9	25.75	269.9	191.0	227.3	382.0	23.32	264.6	
2ATLCS-280	251.3	242.3	502.5	27.81	329.8	239.9	254.1	479.7	25.28	322.2	227.4	266.4	454.8	22.51	313.8	
4ATLCS-200	154.5	152.5	308.9	19.09	203.8	149.3	161.3	298.5	17.61	201.6	143.7	170.5	287.3	16.01	198.8	
4ATLCS-240	194.1	189.3	388.1	25.11	255.4	187.3	200	374.4	23.34	252.0	180.5	211.3	360.9	21.59	248.9	
4ATLCS-280	221.3	226.5	442.5	22.14	294.7	210.9	238.9	421.6	19.82	288.2	200.1	252.1	400.1	17.42	281.7	
4ATLCS-320	255.3	253.7	510.5	12.79	337.5	242.9	266.9	485.6	11.32	329.3	229.6	280.9	459.3	9.78	320.6	
4ATLCS-360	311.3	293.3	622.5	21.89	406.3	297.7	308.9	595.2	20.84	397.7	283.3	325.7	566.5	19.74	388.7	

Note:

1MBH=10000 Btu/hr

QE: Actual Evaporator Cooling Capacity

QC: Condenser Total Heat Rejection

WC: Compressor Motor Power Input at 380v, 3Ø, 50Hz

P.D.: Water Pressure Drop (Ft.W.G.)

W.F.D : Water Flow Data

Performance Data (Screw Compressor)

Air Cooled Chiller Evap. Leaving Water Temp. 45°F

REFRIGERANT=R22	Model	Condensing Temperature														
		110°F				115°F				120°F						
		QE	WC	Evap. W.F.D. (ΔT=10°F)		QC	QE	WC	Evap. W.F.D. (ΔT=10°F)		QC	QE	WC	Evap. W.F.D. (ΔT=10°F)		QC
		MBH	KW	GPM	PD	MBH	MBH	KW	GPM	PD	MBH	MBH	KW	GPM	PD	MBH
1ATLCS-50	43.5	32.6	86.9	3.94	53.9	42.2	34.4	84.3	3.75	53.4	40.9	36.4	81.7	3.56	52.6	
1ATLCS-60	54.5	40.5	108.9	5.51	67.6	52.9	42.7	105.7	5.28	66.7	51.3	45	102.4	5.04	65.8	
1ATLCS-70	63.7	48.8	127.3	6.22	79.5	61.4	51.3	122.7	5.79	77.9	59.0	53.9	118.0	5.34	76.5	
1ATLCS-80	73.8	54.9	147.5	8.33	91.6	71.1	57.7	142.1	7.83	89.8	68.1	60.6	136.2	7.27	87.7	
1ATLCS-90	88.7	63.2	177.3	11.12	109.2	85.8	66.5	171.5	10.57	107.3	82.7	69.9	165.3	9.99	105.2	
1ATLCS-100	97.9	72.3	195.7	10.79	121.2	94.6	75.6	189.2	10.21	119.1	91.3	79.4	182.6	9.63	117.0	
1ATLCS-110	105.9	75.9	211.9	12.22	130.6	102.1	79.7	204.1	11.53	127.9	98.1	84	196.1	10.82	125.2	
1ATLCS-125	120.8	86.5	241.5	16.37	148.8	116.4	90.9	232.7	15.44	145.8	111.2	95.8	222.3	14.35	142.2	
1ATLCS-140	142.4	105.9	284.7	15.78	176.7	138.1	110.9	276.1	15.01	173.9	133.4	116	266.7	14.16	170.9	
1ATLCS-180	187.5	130.2	374.9	*	229.6	181.60	136.1	363.2	*	225.7	175.7	142.6	351.4	*	221.9	
1ATLCS-210	218.1	149	436.1	*	266.4	211.61	155.8	423.3	*	262.2	204.9	162.9	409.9	*	257.7	
2ATLCS-100	86.9	65.1	173.7	8.84	107.9	84.3	68.9	168.5	8.38	106.6	81.7	72.7	163.3	7.91	105.1	
2ATLCS-120	108.9	80.9	217.7	13.86	135.1	105.7	85.2	211.3	13.19	133.3	102.5	90.1	204.8	12.50	131.6	
2ATLCS-140	127.3	97.5	254.5	13.06	158.8	122.7	102.5	245.3	12.22	155.9	118.1	107.9	236.0	11.38	152.9	
2ATLCS-160	147.5	109.9	294.9	17.35	183.1	142.1	115.3	284.1	16.08	179.4	136.3	121.3	272.5	14.70	175.5	
2ATLCS-180	177.3	126.3	354.5	25.12	218.2	171.5	132.9	342.9	24.23	214.5	165.3	139.6	330.4	23.27	210.4	
2ATLCS-200	195.7	144.5	391.3	30.91	242.5	189.3	151.3	378.5	29.08	238.3	182.7	158.9	365.3	27.18	234.1	
2ATLCS-220	211.9	151.7	423.7	31.69	260.9	204.1	159.3	408.1	29.68	255.7	196.1	168.1	392.1	27.62	250.6	
2ATLCS-250	241.5	172.9	482.9	33.31	297.5	232.7	181.7	465.3	34.04	291.6	222.3	191.5	444.5	31.35	284.2	
2ATLCS-280	284.7	211.9	569.3	35.24	353.4	276.1	221.7	552.1	33.33	347.9	266.7	232	533.3	31.24	341.8	
4ATLCS-200	173.7	130.1	347.3	24.61	215.8	168.5	137.7	336.9	23.12	213.1	163.3	145.3	326.5	21.63	210.3	
4ATLCS-240	217.7	161.8	435.4	31.19	270.2	211.4	170.6	422.6	29.54	266.5	204.9	180.2	409.7	27.89	263.1	
4ATLCS-280	254.5	194.9	508.9	29.53	317.6	245.3	204.9	490.5	27.48	311.7	236.1	215.7	472.1	25.43	305.9	
4ATLCS-320	294.9	219.7	589.7	17.45	366.1	284.1	230.5	568.1	16.18	358.8	272.5	242.5	544.9	14.81	351.0	
4ATLCS-360	354.5	252.5	708.9	25.22	436.3	342.9	265.7	685.7	24.33	428.9	330.4	279.3	660.9	23.38	420.9	

Note:

- 1MBH=10000 Btu/hr
- QE: Actual Evaporator Cooling Capacity
- QC: Condenser Total Heat Rejection
- WC: Compressor Motor Power Input at 380v, 3Ø, 50Hz
- P.D.: Water Pressure Drop (Ft.W.G.)
- W.F.D : Water Flow Data

Performance Data (Screw Compressor)

Air Cooled Chiller Evap. Leaving Water Temp. 45°F(Cont.)

REFRIGERANT=R22	Model	Condensing Temperature														
		125°F				130°F				135°F						
		QE	WC	Evap. W.F.D. (ΔT=10°F)		QC	QE	WC	Evap. W.F.D. (ΔT=10°F)		QC	QE	WC	Evap. W.F.D. (ΔT=10°F)		QC
		MBH	KW	GPM	PD	MBH	MBH	KW	GPM	PD	MBH	MBH	KW	GPM	PD	MBH
1ATLCS-50	39.5	38.5	78.9	3.36	51.9	38.2	40.6	76.3	3.18	51.3	36.7	42.9	73.3	2.96	50.5	
1ATLCS-60	49.6	47.7	99.1	4.81	64.9	47.9	50.4	95.7	4.57	64.2	46.1	53.2	92.1	4.31	63.2	
1ATLCS-70	56.6	56.9	113.1	4.87	74.9	53.9	59.9	107.8	4.38	73.3	51.1	63.2	102.2	3.85	71.6	
1ATLCS-80	65.2	63.8	130.3	6.72	85.8	61.9	67.1	123.9	6.13	83.7	58.7	70.5	117.3	5.50	81.4	
1ATLCS-90	79.4	73.7	158.7	9.38	103.3	75.9	77.6	151.9	8.74	101.1	72.4	81.8	144.6	8.06	98.8	
1ATLCS-100	87.9	83.8	175.9	9.03	115.1	84.5	88.5	168.9	8.41	113.2	80.9	93.8	161.6	7.76	111.2	
1ATLCS-110	93.9	88.9	187.9	10.09	122.8	89.9	94.3	179.7	9.37	120.4	85.6	100	171.1	8.61	117.9	
1ATLCS-125	107.2	101.3	214.3	13.49	139.9	102.4	107.4	204.7	12.49	137.2	97.6	113.9	195.1	11.48	134.4	
1ATLCS-140	128.2	121.7	256.3	13.22	167.6	122.5	127.6	244.9	12.19	163.8	116.1	133.7	232.2	11.04	159.4	
1ATLCS-180	169.7	149.8	339.3	*	218.2	163.41	157.3	326.9	*	214.5	157.1	165	314.1	*	210.5	
1ATLCS-210	198.2	170.9	396.3	*	253.6	191.11	179.2	382.3	*	249.3	183.8	188.1	367.6	*	244.8	
2ATLCS-100	78.9	76.9	157.7	7.42	103.8	76.3	81	152.5	6.96	102.6	73.3	85.7	146.5	6.42	100.9	
2ATLCS-120	99.1	95.3	198.1	11.79	129.9	95.7	100.7	191.3	11.08	128.3	92.1	106.3	184.1	10.31	126.4	
2ATLCS-140	113.1	113.7	226.1	10.49	149.9	107.9	119.9	215.7	9.55	146.7	102.3	126.5	204.5	8.54	143.2	
2ATLCS-160	130.3	127.5	260.5	13.29	171.6	123.9	134	247.7	11.79	167.3	117.3	140.9	234.5	10.24	162.8	
2ATLCS-180	158.7	147.3	317.3	22.26	206.4	151.9	155	303.7	21.21	202.1	144.7	163.5	289.3	20.10	197.6	
2ATLCS-200	175.9	167.5	351.7	25.24	230.2	168.9	176.9	337.7	23.23	226.2	161.7	187.5	323.3	21.17	222.3	
2ATLCS-220	187.9	177.7	375.7	25.51	245.5	179.7	188.5	359.3	23.39	240.8	171.1	200.1	342.1	21.18	235.8	
2ATLCS-250	214.3	202.5	428.5	26.31	279.9	204.7	214.7	409.3	26.83	274.3	195.1	227.8	390.0	24.35	268.8	
2ATLCS-280	256.3	243.3	512.5	28.93	335.1	244.9	255	489.7	26.39	327.6	232.3	267.4	464.4	23.58	318.9	
4ATLCS-200	157.7	153.7	315.3	20.02	207.5	152.5	162	304.9	18.53	204.9	146.5	171.3	292.9	16.81	201.9	
4ATLCS-240	198.1	190.5	396.1	26.14	259.8	191.3	201.3	382.5	24.38	256.5	184.1	212.5	368.1	22.53	252.9	
4ATLCS-280	226.1	227.3	452.1	23.21	299.7	215.7	239.7	431.3	20.89	293.4	204.5	252.9	408.9	18.41	286.4	
4ATLCS-320	260.5	254.9	520.9	13.40	343.1	247.7	268.1	495.3	11.89	334.6	234.5	281.7	468.9	10.34	325.8	
4ATLCS-360	317.3	294.5	634.5	22.36	412.7	303.5	310	607.3	21.31	404.2	289.3	326.9	578.5	20.21	395.2	

Note:

- 1MBH=10000 Btu/hr
- QE: Actual Evaporator Cooling Capacity
- QC: Condenser Total Heat Rejection
- WC: Compressor Motor Power Input at 380v, 3Ø, 50Hz
- P.D.: Water Pressure Drop (Ft.W.G.)
- W.F.D : Water Flow Data

Performance Data (Screw Compressor)

Air Cooled Chiller Evap. Leaving Water Temp. 46°F

REFRIGERANT = R22

Model	Condensing Temperature														
	110°F				115°F				120°F						
	QE	WC	Evap. W.F.D. (ΔT=10°F)		QC	QE	WC	Evap. W.F.D. (ΔT=10°F)		QC	QE	WC	Evap. W.F.D. (ΔT=10°F)		QC
	MBH	KW	GPM	PD	MBH	MBH	KW	GPM	PD	MBH	MBH	KW	GPM	PD	MBH
1ATLCS-50	44.4	32.8	88.7	4.07	55	43	34.6	85.9	3.87	54.2	41.7	36.6	83.3	3.68	53.4
1ATLCS-60	55.7	40.6	111.3	5.68	68.8	53.9	42.9	107.9	5.44	67.9	52.3	45.4	104.5	5.20	66.9
1ATLCS-70	64.9	48.9	129.7	6.45	80.8	62.7	51.5	125.3	6.03	79.4	60.3	54.3	120.5	5.58	77.8
1ATLCS-80	75.2	55.3	150.3	8.59	93.1	72.5	57.9	144.9	8.09	91.3	69.6	60.9	139.1	7.55	89.2
1ATLCS-90	90.4	63.5	180.7	11.43	110.9	87.4	66.7	174.7	10.87	108.9	84.3	70.2	168.5	10.29	106.9
1ATLCS-100	99.9	72.5	199.7	11.14	123.4	96.6	75.9	193.1	10.56	121.2	93.2	79.7	186.3	9.96	118.9
1ATLCS-110	108.1	76.3	216.1	12.59	132.8	104.1	80.1	208.1	11.89	130	100.1	84.4	200.1	11.18	127.3
1ATLCS-125	123.2	86.9	246.3	16.87	151.3	118.7	91.3	237.3	15.93	148.3	114.1	96.2	228.1	14.96	145.1
1ATLCS-140	145	106.7	289.9	16.25	179.5	140.7	111.4	281.3	15.47	176.8	135.9	116.5	271.8	14.62	173.7
1ATLCS-180	189.3	129.6	378.5	*	231.3	183.61	135.7	367.3	*	227.7	177.7	142.4	355.3	*	223.7
1ATLCS-210	222.4	149.8	444.7	*	270.9	215.81	156.5	431.7	*	266.6	209.2	163.7	418.3	*	262.1
2ATLCS-100	88.7	65.5	177.3	9.16	109.9	85.9	69	171.7	8.66	108.3	83.3	73.1	166.5	8.19	106.9
2ATLCS-120	111.3	81	222.5	14.37	137.6	107.9	85.7	215.7	13.65	135.5	104.4	90.6	208.9	12.94	133.8
2ATLCS-140	129.7	97.9	259.3	13.49	161.4	125.3	102.9	250.5	12.69	158.5	120.4	108.5	240.9	11.83	155.5
2ATLCS-160	150.3	110.5	300.5	18.01	186.1	144.9	115.9	289.7	16.74	182.3	139.1	121.7	278.1	15.37	178.4
2ATLCS-180	180.7	126.9	361.3	25.65	221.8	174.7	133.3	349.3	24.72	217.8	168.5	140.3	336.9	23.77	213.8
2ATLCS-200	199.7	144.9	399.3	32.06	246.6	193.1	151.7	386.1	30.17	242.1	186.3	159.3	372.5	28.22	237.8
2ATLCS-220	216.1	152.5	432.1	32.77	265.5	208.1	160	416.1	30.71	259.9	200.1	168.7	400.1	28.65	254.6
2ATLCS-250	246.2	173.7	492.5	34.54	302.6	237.3	182.5	474.5	35.23	296.4	228.1	192.3	456.1	32.86	290.3
2ATLCS-280	289.9	213.1	579.7	36.39	358.9	281.3	222.7	562.5	34.48	353.4	271.9	233	543.7	32.38	347.3
4ATLCS-200	177.3	130.9	354.5	25.64	219.7	171.7	138	343.3	24.03	216.4	166.5	146	332.9	22.54	213.8
4ATLCS-240	222.5	162	444.9	32.42	274.9	215.7	171.2	431.3	30.67	271.2	208.9	181.3	417.7	28.92	267.5
4ATLCS-280	259.3	195.7	518.5	30.59	322.7	250.5	205.6	500.9	28.64	317.1	240.9	216.9	481.7	26.50	311.1
4ATLCS-320	300.5	220.9	600.9	18.11	372.1	289.7	231.6	579.3	16.84	364.8	278.1	243.3	556.1	15.47	356.8
4ATLCS-360	361.3	253.7	722.5	25.75	443.5	349.3	266.4	698.5	24.82	435.7	336.9	280.5	673.7	23.86	427.7

NOTE:

1MBH=10000 Btu/hr

QE: Actual Evaporator Cooling Capacity

QC: Condenser Total Heat Rejection

WC: Compressor Motor Power Input at 380v, 3Ø, 50Hz

P.D.: Water Pressure Drop (Ft.W.G.)

W.F.D : Water Flow Data

Performance Data (Screw Compressor)

Air Cooled Chiller Evap. Leaving Water Temp. 46°F(Cont.)

REFRIGERANT=R22

Model	Condensing Temperature														
	125°F					130°F					135°F				
	QE	WC	Evap. W.F.D. (ΔT=10°F)		QC	QE	WC	Evap. W.F.D. (ΔT=10°F)		QC	QE	WC	Evap. W.F.D. (ΔT=10°F)		QC
	MBH	KW	GPM	PD	MBH	MBH	KW	GPM	PD	MBH	MBH	KW	GPM	PD	MBH
1ATLCS-50	41.7	36.6	83.3	3.68	53.5	38.9	40.9	77.9	3.29	52.2	37.5	43.1	74.9	3.08	51.4
1ATLCS-60	52.3	45.4	104.5	5.19	66.9	48.9	50.7	97.7	4.71	65.3	47.1	53.5	94.1	4.45	64.3
1ATLCS-70	60.3	54.3	120.5	5.58	77.9	55.1	60.3	110.1	4.6	74.6	52.3	63.5	104.5	4.07	72.8
1ATLCS-80	69.6	60.9	139.1	7.55	89.3	63.4	67.3	126.7	6.39	85.2	59.9	70.8	119.9	5.75	82.8
1ATLCS-90	84.3	70.2	168.5	10.29	106.9	77.6	77.9	155.1	9.04	102.8	73.9	81.9	147.7	8.35	100.3
1ATLCS-100	93.2	79.7	186.3	9.96	118.9	86.2	88.6	172.3	8.71	114.9	82.6	93.9	165.1	8.08	112.9
1ATLCS-110	100.1	84.4	200.1	11.18	127.4	91.7	94.5	183.3	9.69	122.3	87.4	100.3	174.7	8.93	119.8
1ATLCS-125	114.1	96.2	228.1	14.96	145.2	104.6	107.7	209.1	12.96	139.5	99.6	114.3	199.1	11.90	136.6
1ATLCS-140	135.9	116.6	271.9	14.63	173.8	125.1	128	250.1	12.66	166.6	118.8	134.3	237.5	11.52	162.2
1ATLCS-180	152.5	125	304.9	*	192.9	140.51	138.1	281.1	*	185.3	133.9	145.3	267.9	*	181.0
1ATLCS-210	209.2	163.7	418.3	*	262.2	195.01	179.9	390.1	*	253.4	187.8	188.1	375.5	*	248.7
2ATLCS-100	83.3	73	166.5	8.19	106.9	77.9	81.7	155.7	7.24	104.3	74.9	86.1	149.7	6.71	102.7
2ATLCS-120	104.5	90.7	208.9	12.94	133.9	97.7	101.3	195.3	11.49	130.5	94.0	106.8	188.0	10.74	128.6
2ATLCS-140	120.5	108.5	240.9	11.83	155.6	110.1	120.5	220.0	9.94	149.0	104.4	126.8	208.8	8.93	145.5
2ATLCS-160	139.1	121.7	278.1	15.37	178.5	126.7	134.5	253.3	12.45	170.3	119.9	141.5	239.7	10.84	165.6
2ATLCS-180	168.5	140.3	336.9	23.77	213.9	155.1	155.7	310.1	21.71	205.5	147.7	163.9	295.3	20.56	200.7
2ATLCS-200	186.3	159.3	372.5	28.22	237.9	172.3	177	344.5	24.19	229.7	165.1	187.7	330.1	22.14	225.8
2ATLCS-220	200.1	168.7	400.1	28.65	254.7	183.3	188.9	366.5	24.33	244.6	174.7	200.5	349.3	22.10	239.6
2ATLCS-250	228.1	192.3	456.1	29.86	290.4	209.1	215.3	418.1	27.97	278.9	199.1	228.5	398.1	25.39	273.0
2ATLCS-280	271.9	233	543.7	32.39	347.4	250.1	256	500.1	27.55	333.1	237.5	268.5	474.9	24.75	324.4
4ATLCS-200	166.5	146	332.9	22.53	213.8	155.7	163.3	311.3	19.44	208.6	149.7	172	299.3	17.73	205.5
4ATLCS-240	208.9	181.3	417.7	28.92	267.6	195.3	202.5	390.5	25.40	260.9	188.1	213.7	376.1	23.56	257.3
4ATLCS-280	240.9	216.9	481.7	26.49	311.2	220.1	240.9	440.1	21.87	298.2	208.9	253.7	417.7	19.39	291.2
4ATLCS-320	278.1	243.3	556.1	15.47	356.9	253.3	268.9	506.5	12.54	340.4	239.7	282.9	479.3	10.95	331.4
4ATLCS-360	336.9	280.5	673.7	23.87	427.8	310.1	311.3	620.1	21.80	410.9	295.3	327.7	590.5	20.67	401.5

Note:

- 1MBH=10000 Btu/hr
- QE: Actual Evaporator Cooling Capacity
- QC: Condenser Total Heat Rejection
- WC: Compressor Motor Power Input at 380v, 3Ø, 50Hz
- P.D.: Water Pressure Drop (Ft.W.G.)
- W.F.D : Water Flow Data

Performance Data (Screw Compressor)

Air Cooled Chiller Evap. Leaving Water Temp. 42°F

REFRIGERANT = R134a (MVRI)	Model	Condensing Temperature														
		110°F				115°F				120°F						
		QE	WC	Evap. W.F.D. (ΔT=10°F)		QC	QE	WC	Evap. W.F.D. (ΔT=10°F)		QC	QE	WC	Evap. W.F.D. (ΔT=10°F)		QC
		MBH	KW	GPM	PD	MBH	MBH	KW	GPM	PD	MBH	MBH	KW	GPM	PD	MBH
1ATLCS-50	28.5	20.2	56.9	1.79	34.9	27.5	21.4	54.9	1.64	34.4	26.4	22.5	52.7	1.49	33.7	
1ATLCS-60	35.7	24.9	71.3	2.82	43.8	34.5	26.4	68.9	2.65	42.9	33.2	27.9	66.3	2.46	42.2	
1ATLCS-70	41.1	29.6	82.1	1.95	50.7	39.6	31.2	79.1	1.67	49.7	37.9	32.9	75.9	1.37	48.5	
1ATLCS-80	47.7	33.3	95.3	3.45	58.5	45.8	35	91.5	3.1	57.1	43.9	36.9	87.7	2.74	55.7	
1ATLCS-90	54.9	38.3	109.7	4.79	67.3	52.9	40.4	105.7	4.42	65.9	50.89	42.6	101.7	4.04	64.6	
1ATLCS-110	68.6	46.9	137.1	5.59	83.87	66.3	49.6	132.5	5.19	82.3	63.9	52.5	127.9	4.78	80.9	
1ATLCS-125	78.2	53.6	156.3	7.40	95.5	75.6	56.6	151.1	6.85	93.9	72.9	59.8	145.7	6.27	92.2	
1ATLCS-140	90.1	61.2	180.3	6.36	109.9	87.2	64.6	174.3	5.82	108.1	84.1	68.3	168.1	5.26	106.1	
1ATLCS-180	114.9	78.9	229.9	*	140.5	110.90	83.2	221.8	*	137.9	106.7	87.9	213.4	*	135.2	
1ATLCS-210	133.8	90.3	267.5	*	162.9	129.21	95.2	258.5	*	160.1	124.6	100.5	249.1	*	157.0	
2ATLCS-100	56.9	40.3	113.7	3.52	69.9	54.9	42.5	109.7	3.17	68.6	52.7	44.9	105.3	2.77	67.1	
2ATLCS-120	71.3	49.9	142.5	5.94	87.4	68.9	52.7	137.7	5.44	85.9	66.3	55.7	132.5	4.89	84.2	
2ATLCS-140	82.1	59.1	164.1	4.89	101.2	79.1	62.3	158.1	4.35	99.3	75.9	65.7	151.6	3.77	97.1	
2ATLCS-160	95.3	66.5	190.6	10.07	116.8	91.5	70	182.9	9.17	114.2	87.7	73.6	175.2	8.27	111.5	
2ATLCS-180	109.7	76.5	219.3	14.72	134.5	105.7	80.7	211.3	14.09	131.8	101.7	85	203.3	13.49	129.2	
2ATLCS-220	137.1	93.9	274.1	12.43	167.5	132.5	99.1	264.9	11.25	164.6	127.9	104.9	255.6	10.05	161.8	
2ATLCS-250	156.3	107	312.5	11.38	190.9	151.1	113	302.1	13.04	187.7	145.7	119.5	291.3	11.65	184.4	
2ATLCS-280	180.3	122.2	360.5	12.03	219.9	174.3	129	348.5	10.69	216.1	168.1	136.5	336.1	9.31	212.2	
4ATLCS-200	113.7	80.5	227.3	15.33	139.8	109.7	84.9	219.3	14.72	137.2	105.3	89.7	210.5	14.04	134.3	
4ATLCS-240	142.5	99.7	284.9	15.66	174.8	137.7	105.3	275.3	14.29	171.8	132.5	111.3	264.9	12.79	168.4	
4ATLCS-280	164.1	118	328.1	17.38	202.3	158.1	124.5	316.1	15.84	198.4	151.7	131.3	303.3	14.19	194.1	
4ATLCS-320	190.5	132.9	380.9	10.17	233.5	182.8	140	365.7	9.27	228.3	175.3	147.3	350.5	8.38	222.9	
4ATLCS-360	219.3	152.9	438.5	14.82	268.7	211.2	161.3	422.5	14.19	263.6	203.3	170	406.5	13.59	258.3	

Note:

- 1MBH=10000 Btu/hr
- QE: Actual Evaporator Cooling Capacity
- QC: Condenser Total Heat Rejection
- WC: Compressor Motor Power Input at 380v, 3Ø, 50Hz
- P.D.: Water Pressure Drop (Ft.W.G.)
- W.F.D: Water Flow Data

Performance Data (Screw Compressor)

Air Cooled Chiller Evap. Leaving Water Temp. 42°F(Cont.)

REFRIGERANT = R134a (MVR1)

Model	Condensing Temperature														
	125°F				130°F				135°F						
	QE	WC	Evap. W.F.D. (ΔT=10°F)		QC	QE	WC	Evap. W.F.D. (ΔT=10°F)		QC	QE	WC	Evap. W.F.D. (ΔT=10°F)		QC
	MBH	KW	GPM	PD	MBH	MBH	KW	GPM	PD	MBH	MBH	KW	GPM	PD	MBH
1ATLCS-50	25.4	23.8	50.67	1.35	33.1	24.3	25.2	48.5	1.19	32.4	23.2	26.6	46.3	1.03	31.8
1ATLCS-60	31.9	29.5	63.7	2.28	41.4	30.5	31.2	60.9	2.08	40.6	29.1	32.9	58.1	1.87	39.7
1ATLCS-70	36.4	34.8	72.7	1.06	47.6	34.8	36.8	69.5	0.76	46.7	33.1	38.9	66.0	0.43	45.6
1ATLCS-80	41.9	38.9	83.7	2.37	54.5	39.9	41.1	79.9	2.01	53.3	37.9	43.3	75.9	1.64	51.9
1ATLCS-90	48.9	44.9	97.7	3.68	63.5	46.8	47.5	93.4	3.27	62.1	44.5	50.2	89.0	2.86	60.8
1ATLCS-110	61.6	55.5	123.1	4.35	79.6	59.1	58.8	118.1	3.91	78.1	56.6	62.3	113.0	3.46	76.7
1ATLCS-125	70.1	63.2	140.2	5.69	90.6	67.3	66.9	134.5	5.09	88.9	64.4	70.9	128.7	4.49	87.3
1ATLCS-140	80.9	72.2	161.9	4.69	104.4	77.7	76.5	155.3	4.09	102.5	74.4	81	148.7	3.49	100.6
1ATLCS-180	102.21	91.4	204.5	*	131.9	98.4	96.7	196.7	*	129.7	94.5	102.4	188.8	*	127.6
1ATLCS-210	119.61	106.2	239.3	*	154.1	114.8	112.3	229.5	*	151.2	109.8	118.6	219.4	*	148.1
2ATLCS-100	50.7	47.5	101.2	2.42	66.1	48.5	50.3	96.9	2.03	64.8	46.3	53	92.5	1.63	63.4
2ATLCS-120	63.7	58.9	127.3	4.34	82.8	60.9	62.3	121.7	3.75	81.1	58.1	65.9	116.1	3.16	79.3
2ATLCS-140	72.7	69.5	145.3	3.19	95.2	69.5	73.5	138.9	2.62	93.3	66.1	77.7	132.1	2.00	91.2
2ATLCS-160	83.7	77.7	167.3	7.34	108.9	79.9	82	159.7	6.44	106.5	75.9	86.5	151.6	5.49	103.8
2ATLCS-180	97.7	89.9	195.3	12.87	126.8	93.5	94.9	186.9	12.22	124.2	89.0	100.4	178.0	11.54	121.5
2ATLCS-220	123.1	110.8	246.1	8.83	158.9	118.0	117.4	236.0	7.53	156.1	113.0	124.4	226.0	6.25	153.3
2ATLCS-250	140.1	126.2	280.1	7.21	180.9	134.5	133.9	268.9	8.76	177.9	128.7	141.9	257.3	7.27	174.7
2ATLCS-280	161.9	144.2	323.7	7.93	208.6	155.3	152.9	310.5	6.47	204.8	148.7	162	297.3	4.99	201.1
4ATLCS-200	101.3	94.9	202.5	13.42	131.9	96.9	100.4	193.7	12.75	129.4	92.5	106	184.9	12.06	126.8
4ATLCS-240	127.3	117.7	254.5	11.31	165.3	121.7	124.4	243.3	9.69	161.9	116.1	131.7	232.1	8.09	158.7
4ATLCS-280	145.3	138.9	290.5	12.53	190.2	138.9	146.8	277.7	10.90	186.5	132.1	155.3	264.1	9.14	182.3
4ATLCS-320	167.3	155.3	334.5	7.43	217.5	159.7	164	319.3	6.54	212.9	151.7	172.9	303.3	5.59	207.6
4ATLCS-360	195.3	179.7	390.5	12.97	253.4	186.9	189.6	373.7	12.32	248.4	178.1	200.9	356.1	11.64	243.1

Note:

- 1MBH=10000 Btu/hr
- QE: Actual Evaporator Cooling Capacity
- QC: Condenser Total Heat Rejection
- WC: Compressor Motor Power Input at 380v, 3Ø, 50Hz
- P.D.: Water Pressure Drop (Ft.W.G.)
- W.F.D: Water Flow Data

Performance Data (Screw Compressor)

Air Cooled Chiller Evap. Leaving Water Temp. 42°F(Cont.)

REFRIGERANT = R134a (MVRI)	Model	Condensing Temperature									
		140°F					145°F				
		QE	WC	Evap. W.F.D. (ΔT=10°F)		QC	QE	WC	Evap. W.F.D. (ΔT=10°F)		QC
		MBH	KW	GPM	PD	MBH	MBH	KW	GPM	PD	MBH
	1ATLCS-50	22	28.2	43.9	0.86	31.1	20.8	29.8	41.5	0.69	30.4
	1ATLCS-60	27.6	34.9	55.1	1.66	38.9	26.1	36.9	52.1	1.45	37.9
	1ATLCS-70	31.4	41.2	62.7	0.12	44.7	29.7	43.6	59.3	-0.22	43.8
	1ATLCS-80	36	45.8	71.9	1.27	50.8	33.9	48.4	67.9	0.88	49.6
	1ATLCS-90	42.5	53.1	84.9	2.48	59.7	40.3	56.2	80.5	2.06	58.4
	1ATLCS-110	53.9	66.1	107.9	3.01	75.4	51.3	70.1	102.5	2.53	73.9
	1ATLCS-125	61.5	75.3	122.9	3.88	85.9	58.5	79.9	116.9	3.25	84.3
	1ATLCS-140	70.9	85.9	141.9	2.89	98.8	67.6	91.3	135.1	2.28	97.1
	1ATLCS-180	89.11	109.9	178.3	*	124.8	84.5	116.2	168.8	*	122.0
	1ATLCS-210	104.61	125.5	209.3	*	145.3	99.6	132.7	199.0	*	142.5
	2ATLCS-100	43.9	56.3	87.7	1.22	62.1	41.5	59.5	82.9	0.79	60.8
	2ATLCS-120	55.1	69.7	110.1	2.53	77.7	52.1	73.7	104.1	1.9	75.9
	2ATLCS-140	62.7	82.3	125.2	1.38	89.2	59.2	87	118.4	0.77	87.4
	2ATLCS-160	71.9	91.5	143.7	4.56	101.5	67.9	96.7	135.7	3.62	99.1
	2ATLCS-180	84.9	106	169.7	10.9	119.3	80.5	112.3	160.9	10.22	116.8
	2ATLCS-220	107.9	132	215.7	4.92	150.7	102.5	140	204.9	3.53	147.8
	2ATLCS-250	122.9	150.5	245.7	2.78	171.7	116.9	159.7	233.7	4.23	168.5
	2ATLCS-280	141.9	171.9	283.7	3.49	197.6	135.1	182.5	270.1	1.98	194.1
	4ATLCS-200	87.7	112.5	175.3	11.33	124.1	82.9	118.9	165.7	10.59	121.3
	4ATLCS-240	110.1	139.3	220.1	6.38	155.2	104.1	147.3	208.1	4.66	151.7
	4ATLCS-280	125.3	164.5	250.5	7.40	178.6	118.5	174	236.9	5.65	174.8
	4ATLCS-320	143.7	182.9	287.3	4.67	202.9	135.7	193.3	271.3	3.72	198.2
	4ATLCS-360	169.7	212	339.3	10.99	238.4	160.9	224.5	321.7	10.32	233.5

Note:

1MBH=10000 Btu/hr

QE: Actual Evaporator Cooling Capacity

QC: Condenser Total Heat Rejection

WC: Compressor Motor Power Input at 380v, 3Ø, 50Hz

P.D.: Water Pressure Drop (Ft.W.G.)

W.F.D: Water Flow Data

Performance Data (Screw Compressor)

Air Cooled Chiller Evap. Leaving Water Temp. 44°F

REFRIGERANT = R134a (MVRI)

Model	Condensing Temperature														
	110°F				115°F				120°F						
	QE	WC	Evap. W.F.D. (ΔT=10°F)		QC	QE	WC	Evap. W.F.D. (ΔT=10°F)		QC	QE	WC	Evap. W.F.D. (ΔT=10°F)		QC
	MBH	KW	GPM	PD	MBH	MBH	KW	GPM	PD	MBH	MBH	KW	GPM	PD	MBH
1ATLCS-50	29.8	20.3	59.5	1.97	36.3	28.7	21.5	57.3	1.82	35.6	27.7	22.7	55.3	1.68	34.9
1ATLCS-60	37.3	25.2	74.5	3.05	45.4	35.9	26.6	71.9	2.86	44.6	34.7	28.1	69.3	2.77	43.7
1ATLCS-70	43.1	29.8	86.1	2.33	52.7	41.5	31.4	82.9	2.03	51.6	39.9	33.2	79.7	1.73	50.5
1ATLCS-80	49.9	33.6	99.7	3.86	60.8	47.9	35.3	95.8	3.50	59.3	45.9	37.1	91.8	3.13	57.9
1ATLCS-90	57.4	38.6	114.6	5.26	69.9	55.4	40.6	110.7	4.89	68.6	53.4	42.9	106.7	4.51	67.2
1ATLCS-110	71.7	47.4	143.3	6.14	86.9	69.3	49.9	138.5	5.72	85.5	66.9	52.8	133.6	5.28	83.9
1ATLCS-125	81.7	53.9	163.3	8.13	99.2	78.9	56.9	157.9	7.56	97.4	76.2	60.1	152.3	6.96	95.5
1ATLCS-140	94.3	61.6	188.5	7.09	114.2	91.2	64.9	182.3	6.54	112.2	87.9	68.7	175.9	5.95	110.1
1ATLCS-180	120.3	79.4	240.4	*	145.9	116.01	83.8	232.1	*	143.2	111.8	88.5	223.5	*	140.4
1ATLCS-210	139.9	90.8	279.7	*	169.3	135.11	95.8	270.3	*	166.1	130.3	101	260.6	*	163.0
2ATLCS-100	59.5	40.5	118.9	3.98	72.6	57.3	42.9	114.5	3.59	71.2	55.3	45.3	110.5	3.23	69.9
2ATLCS-120	74.5	50.3	148.9	6.62	90.8	71.9	53.1	143.7	6.07	89.1	69.3	56.1	138.4	5.52	87.4
2ATLCS-140	86.1	59.5	172.1	5.62	105.4	82.9	62.7	165.7	5.04	103.2	79.7	66.3	159.2	4.45	101.1
2ATLCS-160	99.7	67	199.3	11.09	121.4	95.9	70.5	191.7	10.21	118.7	91.8	74.2	183.6	9.26	115.9
2ATLCS-180	114.7	77	229.3	15.49	139.7	110.7	81.3	221.3	14.87	136.9	106.7	85.6	213.2	14.24	134.3
2ATLCS-220	143.3	94.7	286.5	14.03	173.9	138.5	99.9	276.9	12.79	170.9	133.7	105.4	267.2	11.55	167.8
2ATLCS-250	163.3	107.9	326.5	13.18	198.2	157.9	113.7	315.7	14.79	194.7	152.2	120	304.4	13.34	191.1
2ATLCS-280	188.5	123.1	376.9	13.85	228.4	182.3	129.9	364.5	12.47	224.3	175.9	137.2	351.7	11.04	220.3
4ATLCS-200	118.9	80.9	237.7	16.13	145.1	114.5	85.7	228.9	15.46	142.2	110.5	90.5	220.9	14.84	139.8
4ATLCS-240	148.9	100.4	297.7	17.50	181.4	143.7	106	287.3	16.01	178.1	138.5	112	276.9	14.52	174.8
4ATLCS-280	172.1	118.8	344.1	19.44	210.6	165.7	125.3	331.3	17.78	206.3	159.3	132.5	318.5	16.15	202.2
4ATLCS-320	199.3	134	398.5	11.20	242.7	191.7	140.9	383.2	10.30	237.3	183.7	148.5	367.3	9.37	231.8
4ATLCS-360	229.3	154	458.5	15.59	279.2	221.3	162.5	442.4	14.96	273.8	213.3	171.3	426.5	14.35	268.8

Note:

- 1MBH=10000 Btu/hr
- QE: Actual Evaporator Cooling Capacity
- QC: Condenser Total Heat Rejection
- WC: Compressor Motor Power Input at 380v, 3Ø, 50Hz
- P.D.: Water Pressure Drop (Ft.W.G.)
- W.F.D: Water Flow Data

Performance Data (Screw Compressor)

Air Cooled Chiller Evap. Leaving Water Temp. 44°F(Cont.)

REFRIGERANT = R134a (MVRI)	Model	Condensing Temperature														
		125°F				130°F				135°F						
		QE	WC	Evap. W.F.D. (ΔT=10°F)		QC	QE	WC	Evap. W.F.D. (ΔT=10°F)		QC	QE	WC	Evap. W.F.D. (ΔT=10°F)		QC
		MBH	KW	GPM	PD	MBH	MBH	KW	GPM	PD	MBH	MBH	KW	GPM	PD	MBH
1ATLCS-50	26.6	24	53.1	1.52	34.3	25.5	25.4	50.9	1.36	33.7	24.3	26.8	48.5	1.19	32.9	
1ATLCS-60	33.4	29.7	66.7	2.49	43	32	31.4	63.9	2.29	42.1	30.5	33.2	60.9	2.07	41.1	
1ATLCS-70	38.2	34.9	76.3	1.40	49.5	36.5	36.9	72.9	1.08	48.5	34.8	39.1	69.5	0.76	47.3	
1ATLCS-80	43.9	39.2	87.9	2.76	56.7	41.9	41.3	83.9	2.39	55.4	39.9	43.6	79.7	1.99	53.9	
1ATLCS-90	51.2	45.3	102.3	4.11	65.9	49.1	47.8	98.1	3.71	64.6	46.8	50.5	93.5	3.28	63.0	
1ATLCS-110	64.4	55.8	128.7	4.85	82.5	61.9	59.1	123.7	4.41	80.9	59.1	62.5	118.2	3.92	79.4	
1ATLCS-125	73.4	63.6	146.7	6.39	93.9	70.4	67.2	140.8	5.76	92.2	67.4	71.3	134.8	5.13	90.5	
1ATLCS-140	84.7	72.6	169.3	5.36	108.1	81.3	76.8	162.6	4.76	106.2	77.9	81.4	155.8	4.14	104.3	
1ATLCS-180	107.4	93.6	214.7	*	137.7	102.81	98.9	205.7	*	134.9	98.21	104.6	196.5	*	132.1	
1ATLCS-210	125.4	106.7	250.7	*	159.9	120.3	112.8	240.5	*	156.8	115.1	119.2	230.0	*	153.6	
2ATLCS-100	53.1	47.9	106.1	2.85	68.6	50.9	50.7	101.6	2.46	67.3	48.5	53.5	96.9	2.03	65.8	
2ATLCS-120	66.7	59.3	133.3	4.96	85.9	63.9	62.7	127.6	4.38	84.2	60.9	66.3	121.7	3.75	82.4	
2ATLCS-140	76.3	69.9	152.5	3.84	98.9	72.9	73.9	145.6	3.23	96.8	69.5	78.1	138.9	2.62	94.8	
2ATLCS-160	87.9	78.3	175.7	8.31	113.2	83.9	82.4	167.6	7.38	110.6	79.7	87	159.3	6.40	107.9	
2ATLCS-180	102.3	90.5	204.5	13.57	131.6	98.1	95.5	196.0	12.93	128.9	93.5	100.8	186.9	12.22	126.2	
2ATLCS-220	128.7	111.5	257.3	10.26	164.8	123.7	118	247.2	8.98	161.9	118.3	125	236.5	7.59	158.8	
2ATLCS-250	146.7	127.1	293.3	8.89	187.9	140.9	134.5	281.6	10.41	184.5	134.9	142.6	269.6	8.86	181.1	
2ATLCS-280	169.3	145.1	338.5	9.57	216.3	162.7	153.6	325.7	8.11	212.5	155.9	162.8	311.6	6.59	208.6	
4ATLCS-200	106.1	95.7	212.1	14.16	137.1	101.7	101.3	203.3	13.49	134.5	96.9	106.9	193.7	12.75	131.5	
4ATLCS-240	133.3	118.5	266.5	13.03	171.7	127.7	125.3	255.3	11.41	168.3	121.7	132.5	243.3	9.69	164.6	
4ATLCS-280	152.5	139.7	304.9	14.40	197.7	145.7	147.7	291.3	12.64	193.5	138.9	156	277.7	10.90	189.5	
4ATLCS-320	175.7	156.5	351.3	8.42	226.4	167.7	164.9	335.3	7.47	221.1	159.3	174	318.5	6.50	215.7	
4ATLCS-360	204.5	180.9	408.9	13.68	263.1	196.1	190.9	392.1	13.02	257.9	186.9	201.7	373.7	12.32	252.1	

Note:

- 1MBH=10000 Btu/hr
- QE: Actual Evaporator Cooling Capacity
- QC: Condenser Total Heat Rejection
- WC: Compressor Motor Power Input at 380v, 3Ø, 50Hz
- P.D.: Water Pressure Drop (Ft.W.G.)
- W.F.D: Water Flow Data

Performance Data (Screw Compressor)

Air Cooled Chiller Evap. Leaving Water Temp. 44°F(Cont.)

REFRIGERANT = R134a (MVRI)

Model	Condensing Temperature									
	140°F					145°F				
	QE	WC	Evap. W.F.D. (ΔT=10°F)		QC	QE	WC	Evap. W.F.D. (ΔT=10°F)		QC
	MBH	KW	GPM	PD	MBH	MBH	KW	GPM	PD	MBH
1ATLCS-50	23.1	28.3	46.1	1.02	32.2	21.9	30	43.7	0.85	31.6
1ATLCS-60	29	35.1	57.9	1.86	40.3	27.5	37.1	54.9	1.65	39.5
1ATLCS-70	33.1	41.4	66.1	0.44	46.5	31.3	43.8	62.5	0.1	45.4
1ATLCS-80	37.9	45.9	75.7	1.62	52.8	35.8	48.6	71.5	1.23	51.5
1ATLCS-90	44.6	53.4	89.1	2.86	61.8	42.2	56.4	84.4	2.43	60.5
1ATLCS-110	56.6	66.4	113.1	3.47	78.1	53.8	70.5	107.5	2.97	76.5
1ATLCS-125	64.5	75.7	128.9	4.51	88.9	61.4	80.3	122.7	3.85	87.3
1ATLCS-140	74.5	86.4	148.9	3.52	102.4	70.9	91.7	141.7	2.87	100.6
1ATLCS-180	93.6	110.5	187.1	*	129.4	88.71	116.7	177.5	*	126.5
1ATLCS-210	109.9	125.9	219.7	*	150.7	104.7	133.2	209.0	*	147.6
2ATLCS-100	46.1	56.5	92.1	1.61	64.4	43.67	59.9	87.3	1.18	63.1
2ATLCS-120	57.9	70.1	115.8	3.13	80.7	54.9	74.1	109.7	2.49	78.9
2ATLCS-140	66.1	82.7	132.1	2.01	92.9	62.5	87.5	124.9	1.36	90.8
2ATLCS-160	75.7	91.9	151.3	5.45	105.5	71.5	97.1	142.9	4.47	102.8
2ATLCS-180	89.1	106.7	178.1	11.55	123.7	84.5	112.9	168.9	10.84	121.0
2ATLCS-220	113.0	132.6	226.0	6.25	156.0	107.4	140.8	214.8	4.80	153.0
2ATLCS-250	128.9	151.3	257.7	4.32	177.9	122.7	160.5	245.3	5.73	174.6
2ATLCS-280	148.9	172.7	297.7	5.04	204.8	141.7	183.3	283.4	3.43	201.0
4ATLCS-200	92.1	112.9	184.1	12.01	128.7	87.3	119.7	174.5	11.27	126.1
4ATLCS-240	115.7	140.1	231.3	7.98	161.1	109.7	148.1	219.3	6.26	157.7
4ATLCS-280	132.1	165.3	264.1	9.15	185.6	124.9	174.9	249.7	7.29	181.6
4ATLCS-320	151.3	183.7	302.5	5.55	210.8	142.9	194	285.7	4.57	205.8
4ATLCS-360	178.1	213.3	356.1	11.65	247.2	168.9	225.7	337.7	10.94	241.9

Note:

- 1MBH=10000 Btu/hr
- QE: Actual Evaporator Cooling Capacity
- QC: Condenser Total Heat Rejection
- WC: Compressor Motor Power Input at 380v, 3Ø, 50Hz
- P.D.: Water Pressure Drop (Ft.W.G.)
- W.F.D: Water Flow Data

Performance Data (Screw Compressor)

Air Cooled Chiller Evap. Leaving Water Temp. 45°F

REFRIGERANT = R134a (MVRI)

Model	Condensing Temperature														
	110°F				115°F				120°F						
	QE	WC	Evap. W.F.D. (ΔT=10°F)		QC	QE	WC	Evap. W.F.D. (ΔT=10°F)		QC	QE	WC	Evap. W.F.D. (ΔT=10°F)		QC
	MBH	KW	GPM	PD	MBH	MBH	KW	GPM	PD	MBH	MBH	KW	GPM	PD	MBH
1ATLCS-50	30.4	20.4	60.7	2.06	36.9	29.4	21.6	58.7	1.92	36.4	28.3	22.8	56.5	1.76	35.7
1ATLCS-60	38.1	25.3	76.1	3.16	46.3	36.9	26.7	73.7	2.99	45.5	35.5	28.2	70.9	2.78	44.5
1ATLCS-70	44.1	29.9	88.1	2.52	53.8	42.5	31.5	84.9	2.22	52.7	40.8	33.3	81.4	1.89	51.5
1ATLCS-80	51.1	33.7	102.1	4.09	61.9	49.2	35.5	98.3	3.73	60.7	47.1	37.3	94.0	3.33	59.1
1ATLCS-90	58.8	38.7	117.4	5.52	71.2	56.6	40.7	113.2	5.13	69.8	54.5	43	109.0	4.73	68.4
1ATLCS-110	73.3	47.5	146.5	6.43	88.7	70.9	50.1	141.7	5.99	87.1	68.4	52.9	136.7	5.56	85.4
1ATLCS-125	83.5	54.2	166.9	8.51	100.9	80.8	57.1	161.5	7.94	99.3	77.9	60.3	155.7	7.32	97.3
1ATLCS-140	96.4	61.8	192.7	7.48	116.4	93.2	65.2	186.3	6.90	114.3	89.9	68.9	179.9	6.31	112.2
1ATLCS-180	123	79.6	245.9	*	148.8	118.71	83.9	237.5	*	145.9	114.4	88.7	228.7	*	143.1
1ATLCS-210	143	91.1	285.9	*	172.5	138.21	95.9	276.5	*	169.3	133.4	101.3	266.7	*	166.1
2ATLCS-100	60.7	40.7	121.3	4.19	73.9	58.7	43	117.3	3.84	72.6	56.5	45.5	112.9	3.45	71.2
2ATLCS-120	76.1	50.5	152.1	6.95	92.4	73.7	53.3	147.3	6.45	90.9	70.9	56.3	141.7	5.86	89.1
2ATLCS-140	88.1	59.7	176.1	5.98	107.4	84.9	62.9	169.7	5.40	105.3	81.5	66.5	162.9	4.79	102.9
2ATLCS-160	102.1	67.3	204.1	11.67	123.9	98.3	70.9	196.5	10.77	121.2	94.1	74.5	188.1	9.78	118.2
2ATLCS-180	117.5	77.5	234.9	15.92	142.6	113.3	81.5	226.5	15.27	139.7	109.1	86	218.1	14.62	136.9
2ATLCS-220	146.5	94.9	292.9	14.85	177.2	141.7	100.1	283.3	13.62	174.1	136.7	105.7	273.3	12.33	170.9
2ATLCS-250	166.9	108.3	333.7	14.09	201.9	161.5	114	322.9	15.72	198.5	155.7	120.5	311.3	14.22	194.7
2ATLCS-280	192.7	123.5	385.3	14.78	232.7	186.3	130.3	372.5	13.36	228.5	179.9	137.7	359.7	11.94	224.5
4ATLCS-200	121.3	81.3	242.5	16.50	147.6	117.3	86	234.5	15.89	145.2	112.9	90.9	225.6	15.21	142.3
4ATLCS-240	152.1	100.9	304.1	18.41	184.7	147.3	106.5	294.5	17.04	181.8	141.7	112.5	283.2	15.43	178.0
4ATLCS-280	176.1	119.3	352.1	20.47	214.6	169.7	125.7	339.3	18.82	210.4	162.9	132.9	325.6	17.07	205.8
4ATLCS-320	204.1	134.5	408.1	11.77	247.6	196.5	141.7	392.9	10.87	242.4	188.1	148.9	376.0	9.88	236.2
4ATLCS-360	234.9	154.9	469.7	16.02	285.0	226.5	162.9	452.9	15.37	279.3	218.1	172	436.1	14.71	273.8

Note:

- 1MBH=10000 Btu/hr
- QE: Actual Evaporator Cooling Capacity
- QC: Condenser Total Heat Rejection
- WC: Compressor Motor Power Input at 380v, 3Ø, 50Hz
- P.D.: Water Pressure Drop (Ft.W.G.)
- W.F.D: Water Flow Data

Performance Data (Screw Compressor)

Air Cooled Chiller Evap. Leaving Water Temp. 45°F(Cont.)

REFRIGERANT = R134a (MVRI)

Model	Condensing Temperature														
	125°F				130°F				135°F						
	QE	WC	Evap. W.F.D. (ΔT=10°F)		QC	QE	WC	Evap. W.F.D. (ΔT=10°F)		QC	QE	WC	Evap. W.F.D. (ΔT=10°F)		QC
	MBH	KW	GPM	PD	MBH	MBH	KW	GPM	PD	MBH	MBH	KW	GPM	PD	MBH
1ATLCS-50	27.2	24.1	54.3	1.61	34.9	26.1	25.3	52.1	1.45	34.3	24.9	26.9	49.7	1.28	33.6
1ATLCS-60	34.1	29.8	68.1	2.59	43.7	32.6	31.4	65.3	2.39	42.9	31.2	33.3	62.3	2.18	41.9
1ATLCS-70	39.1	35.1	78.1	1.57	50.4	37.3	37	74.7	1.25	49.4	35.7	39.2	71.3	0.93	48.4
1ATLCS-80	45.1	39.3	90.0	2.97	57.8	42.9	41.4	85.9	2.57	56.4	40.9	43.7	81.7	2.18	54.9
1ATLCS-90	52.5	45.4	104.9	4.35	67.2	50.1	47.9	100.3	3.92	65.7	47.9	50.7	95.9	3.51	64.4
1ATLCS-110	65.9	56	131.6	5.12	83.9	63.2	59.2	126.5	4.65	82.5	60.6	62.8	121.1	4.18	80.9
1ATLCS-125	75.1	63.8	150.1	6.74	95.7	72.0	67.4	144.1	6.11	93.9	69.1	71.5	138.1	5.48	92.1
1ATLCS-140	86.7	72.8	173.2	5.73	110.3	83.2	77	166.5	5.11	108.3	79.8	81.7	159.4	4.48	106.1
1ATLCS-180	109.9	93.8	219.7	*	140.3	105.30	99.1	210.7	*	137.5	100.60	104.8	201.2	*	134.5
1ATLCS-210	128.3	107	256.5	*	162.9	123.00	112.9	246.1	*	159.6	117.80	119.4	235.6	*	156.5
2ATLCS-100	54.3	48	108.5	3.06	69.9	52.1	50.7	104.1	2.67	68.5	49.7	53.7	99.3	2.24	67.0
2ATLCS-120	68.1	59.5	136.1	5.27	87.4	65.3	62.9	130.5	4.67	85.7	62.3	66.5	124.5	4.05	83.8
2ATLCS-140	78.1	70	156.1	4.17	100.8	74.7	74	149.3	3.55	98.7	71.3	78.3	142.5	2.94	96.6
2ATLCS-160	90.1	78.5	180.1	8.84	115.5	85.9	82.9	171.7	7.84	112.7	81.7	87.3	163.3	6.87	109.9
2ATLCS-180	104.9	90.7	209.7	13.98	134.3	100.3	95.9	200.5	13.26	131.4	95.9	101.3	191.7	12.59	128.7
2ATLCS-220	131.7	111.9	263.3	11.04	167.9	126.5	118.5	252.9	9.69	164.9	121.1	125.5	242.1	8.31	161.7
2ATLCS-250	150.1	127.5	300.1	9.78	191.4	144.1	134.9	288.1	11.22	187.7	138.0	142.9	276.1	9.69	184.4
2ATLCS-280	173.3	145.5	346.5	10.47	220.4	166.5	154	332.9	8.95	216.3	159.4	163.3	318.9	7.40	212.4
4ATLCS-200	108.5	96	216.9	14.53	139.6	104.1	101.3	208.1	13.85	136.9	99.3	107.3	198.5	13.12	133.9
4ATLCS-240	136.1	118.9	272.1	13.83	174.6	130.5	125.7	260.9	12.22	171.2	124.5	132.9	248.8	10.49	167.5
4ATLCS-280	156.1	140	312.1	15.32	201.5	149.3	148	298.5	13.57	197.3	142.5	156.5	284.8	11.81	193.2
4ATLCS-320	180.1	156.9	360.1	8.94	230.9	171.7	165.7	343.3	7.95	225.4	163.3	174.5	326.4	6.96	219.8
4ATLCS-360	209.7	181.3	419.3	14.08	268.4	200.5	191.7	400.9	13.37	262.6	191.7	202.5	383.2	12.68	257.2

Note:

- 1MBH=10000 Btu/hr
- QE: Actual Evaporator Cooling Capacity
- QC: Condenser Total Heat Rejection
- WC: Compressor Motor Power Input at 380v, 3Ø, 50Hz
- P.D.: Water Pressure Drop (Ft.W.G.)
- W.F.D: Water Flow Data

Performance Data (Screw Compressor)

Air Cooled Chiller Evap. Leaving Water Temp. 45°F(Cont.)

REFRIGERANT = R134a (MVRI)

Model	Condensing Temperature									
	140°F					145°F				
	QE	WC	Evap. W.F.D. (ΔT=10°F)		QC	QE	WC	Evap. W.F.D. (ΔT=10°F)		QC
	MBH	KW	GPM	PD	MBH	MBH	KW	GPM	PD	MBH
1ATLCS-50	23.7	28.4	47.3	1.1	32.9	22.4	29.9	44.7	0.92	32.1
1ATLCS-60	29.7	35.3	59.3	1.96	41.1	28.1	37.3	56.1	1.73	40.1
1ATLCS-70	33.9	41.5	67.7	0.59	47.3	32.1	43.9	64.1	0.25	46.2
1ATLCS-80	38.8	46.1	77.5	1.79	53.7	36.7	48.7	73.3	1.40	52.4
1ATLCS-90	45.7	53.6	91.3	3.08	62.9	43.3	56.6	86.5	2.63	61.5
1ATLCS-110	57.9	66.6	115.7	3.69	79.5	55.1	70.6	110.1	3.19	77.9
1ATLCS-125	65.9	75.9	131.9	4.83	90.6	62.8	80.5	125.5	4.15	88.9
1ATLCS-140	76.2	86.6	152.3	3.83	104.2	72.6	91.9	145.1	3.18	102.3
1ATLCS-180	95.9	110.8	191.7	*	131.8	90.91	116.9	181.9	*	128.9
1ATLCS-210	112.5	126.3	224.9	*	153.4	107.01	133.5	214.1	*	150.2
2ATLCS-100	47.3	56.7	94.5	1.82	65.6	44.7	59.9	89.3	1.36	64.0
2ATLCS-120	59.3	70.5	118.5	3.42	82.2	56.1	74.5	112.1	2.73	80.1
2ATLCS-140	67.7	82.9	135.3	2.29	94.4	64.0	87.6	128.0	1.64	92.4
2ATLCS-160	77.5	92.1	154.9	5.88	107.3	73.3	97.3	146.5	4.89	104.7
2ATLCS-180	91.3	107	182.5	11.8	126	86.5	113.1	172.9	11.14	123.1
2ATLCS-220	115.7	133	231.3	6.92	158.8	110.1	141	220.1	5.48	155.7
2ATLCS-250	131.9	151.7	263.7	5.09	180.9	125.5	160.9	250.9	6.45	177.5
2ATLCS-280	152.3	173	304.5	5.79	208.4	145.1	183.7	290.0	4.19	204.5
4ATLCS-200	94.5	113.3	188.9	12.39	131.3	89.4	119.8	178.6	11.58	128.1
4ATLCS-240	118.5	140.9	236.9	8.79	164.2	112.2	148.9	224.2	6.95	160.2
4ATLCS-280	135.3	165.7	270.5	9.97	188.9	128.1	175.3	256.1	8.12	184.8
4ATLCS-320	154.9	184.1	309.7	5.98	214.5	146.5	194.5	292.9	4.99	209.4
4ATLCS-360	182.5	214.1	364.9	11.98	251.9	172.9	226	345.7	11.24	246.1

Note:

1MBH=10000 Btu/hr

QE: Actual Evaporator Cooling Capacity

QC: Condenser Total Heat Rejection

WC: Compressor Motor Power Input at 380v, 3Ø, 50Hz

P.D.: Water Pressure Drop (Ft.W.G.)

W.F.D: Water Flow Data

Performance Data (Screw Compressor)

Air Cooled Chiller Evap. Leaving Water Temp. 46°F

REFRIGERANT = R134a MVRI	Model	Condensing Temperature														
		110°F				115°F				120°F						
		QE	WC	Evap. W.F.D. (ΔT=10°F)		QC	QE	WC	Evap. W.F.D. (ΔT=10°F)		QC	QE	WC	Evap. W.F.D. (ΔT=10°F)		QC
		MBH	KW	GPM	PD	MBH	MBH	KW	GPM	PD	MBH	MBH	KW	GPM	PD	MBH
1ATLCS-50	31.1	20.4	62.1	2.16	37.7	29.9	21.6	59.8	2.01	36.9	28.9	22.9	57.9	1.86	36.4	
1ATLCS-60	39	25.4	77.8	3.29	47.2	37.7	26.7	75.3	3.11	46.4	36.3	28.2	72.5	2.91	45.3	
1ATLCS-70	45.1	30.1	90.0	2.71	54.8	43.5	31.6	86.9	2.41	53.7	41.8	33.3	83.5	2.08	52.5	
1ATLCS-80	52.3	33.9	104.4	4.31	63.3	50.3	35.5	100.5	3.94	61.8	48.3	37.4	96.5	3.57	60.3	
1ATLCS-90	60.1	38.9	120.0	5.77	72.7	57.9	40.9	115.9	5.38	71.3	55.9	43.1	111.7	4.99	69.8	
1ATLCS-110	74.9	47.7	149.6	6.71	90.3	72.4	50.2	144.7	6.27	88.7	69.9	53	139.7	5.82	87.0	
1ATLCS-125	85.3	54.4	170.4	8.89	102.9	82.5	57.2	164.9	8.29	100.9	79.7	60.4	159.3	7.71	99.2	
1ATLCS-140	98.5	62.1	196.8	7.86	118.6	95.3	65.3	190.5	7.28	116.5	91.9	69	183.9	6.68	114.3	
1ATLCS-180	125.7	79.8	251.2	*	151.5	121.31	84.1	242.7	*	148.7	116.9	88.8	233.9	*	145.7	
1ATLCS-210	146.2	91.3	292.2	*	175.8	141.31	96.2	282.7	*	172.6	136.4	101.5	272.7	*	169.2	
2ATLCS-100	62.1	40.9	124.1	4.44	75.3	59.9	43	119.7	4.05	73.8	57.9	45.7	115.7	3.70	72.7	
2ATLCS-120	77.9	50.7	155.7	7.33	94.3	75.3	53.5	150.5	6.79	92.6	72.5	56.5	144.9	6.20	90.8	
2ATLCS-140	90.1	60	180.1	6.34	109.5	86.9	63.2	173.7	5.76	107.4	83.5	66.7	166.9	5.15	105.1	
2ATLCS-160	104.5	67.6	208.9	12.23	126.4	100.5	71	200.9	11.29	123.5	96.5	74.9	192.9	10.35	120.7	
2ATLCS-180	120.1	77.7	240.1	16.32	145.3	115.9	81.9	231.7	15.67	142.4	111.7	86.3	223.3	15.02	139.6	
2ATLCS-220	149.7	95.3	299.3	15.68	180.6	144.7	100.5	289.3	14.39	177.2	139.7	106	279.3	13.09	174.1	
2ATLCS-250	170.5	108.7	340.9	15.03	205.7	164.9	114.5	329.7	16.59	201.9	159.3	120.9	318.5	15.15	198.4	
2ATLCS-280	196.9	124	393.7	15.72	237.1	190.5	130.7	380.9	14.29	232.8	183.9	138	367.7	12.83	228.5	
4ATLCS-200	124.1	81.7	248.1	16.93	150.5	119.7	86	239.3	16.26	147.6	115.7	91.3	231.3	15.64	145.3	
4ATLCS-240	155.7	101.3	311.3	19.45	188.5	150.5	106.9	300.9	17.96	185.1	144.9	112.9	289.7	16.35	181.4	
4ATLCS-280	180.1	120	360.1	21.50	218.9	173.7	126.5	347.3	19.85	214.7	166.9	133.3	333.7	18.09	210.0	
4ATLCS-320	208.9	135.3	417.7	12.33	252.7	200.9	142	401.7	11.39	246.9	192.9	149.7	385.7	10.45	241.3	
4ATLCS-360	240.1	155.3	480.1	16.42	290.4	231.7	163.7	463.3	15.77	284.7	223.3	172.5	446.5	15.12	279.1	

Note:

- 1MBH=10000 Btu/hr
- QE: Actual Evaporator Cooling Capacity
- QC: Condenser Total Heat Rejection
- WC: Compressor Motor Power Input at 380v, 3Ø, 50Hz
- P.D.: Water Pressure Drop (Ft.W.G.)
- W.F.D: Water Flow Data

Performance Data (Screw Compressor)

Air Cooled Chiller Evap. Leaving Water Temp. 46°F(Cont.)

REFRIGERANT = R134a MVRI	Model	Condensing Temperature														
		125°F				130°F				135°F						
		QE	WC	Evap. W.F.D. (ΔT=10°F)		QC	QE	WC	Evap. W.F.D. (ΔT=10°F)		QC	QE	WC	Evap. W.F.D. (ΔT=10°F)		QC
		MBH	KW	GPM	PD	MBH	MBH	KW	GPM	PD	MBH	MBH	KW	GPM	PD	MBH
1ATLCS-50	27.8	24.2	55.5	1.69	35.6	26.7	25.5	53.3	1.53	34.9	25.5	26.9	50.9	1.36	34.1	
1ATLCS-60	34.9	29.9	69.7	2.71	44.6	33.5	31.7	66.9	2.51	43.7	31.9	33.5	63.9	2.29	42.7	
1ATLCS-70	40.1	35.2	80.1	1.76	51.5	38.3	37.2	76.5	1.42	50.3	36.5	39.4	72.9	1.07	49.1	
1ATLCS-80	46.2	39.5	92.3	3.17	58.9	44.1	41.6	88.1	2.78	57.6	41.9	43.8	83.7	2.36	56.0	
1ATLCS-90	53.7	45.6	107.3	4.57	68.4	51.4	48	102.7	4.14	66.9	49.1	50.8	98.1	3.71	65.4	
1ATLCS-110	67.4	56.1	134.7	5.38	85.6	64.7	59.4	129.3	4.89	83.9	61.9	62.9	123.9	4.42	82.3	
1ATLCS-125	76.8	63.9	153.5	7.1	97.5	73.7	67.7	147.5	6.47	95.7	70.7	71.7	141.3	5.82	93.8	
1ATLCS-140	88.6	72.9	177.1	6.07	112.2	85.2	77.3	170.3	5.45	110.1	81.5	81.8	163.0	4.79	108.0	
1ATLCS-180	112.41	93.9	224.9	*	142.9	107.8	99.4	215.4	*	139.9	103.1	106	206.1	*	136.1	
1ATLCS-210	131.11	107.2	262.3	*	165.9	125.9	113.2	251.8	*	162.7	120.6	119.7	241.1	*	160	
2ATLCS-100	55.5	48.3	110.9	3.27	71.1	53.2	50.9	106.5	2.88	69.8	50.9	53.9	101.7	2.46	68.3	
2ATLCS-120	69.7	59.7	139.3	5.61	88.9	66.8	63.2	133.7	5.02	87.4	63.9	66.9	127.7	4.38	85.6	
2ATLCS-140	80.1	70.3	160.1	4.53	102.9	76.4	74.2	152.9	3.88	100.6	72.9	78.7	145.7	3.23	98.4	
2ATLCS-160	92.3	78.9	184.5	9.36	117.8	88.0	83	176.1	8.38	114.9	83.7	87.5	167.3	7.34	112	
2ATLCS-180	107.3	91.1	214.5	14.35	136.8	102.6	96	205.3	13.65	133.8	98.1	101.5	196.1	12.93	131	
2ATLCS-220	134.7	112.1	269.3	11.82	171	129.2	118.6	258.5	10.45	167.7	123.9	125.7	247.7	9.04	164.5	
2ATLCS-250	153.5	127.9	306.9	10.65	194.9	147.4	135.2	294.9	12.11	191.3	141.3	143.3	282.5	10.51	187.7	
2ATLCS-280	177.1	145.9	354.0	11.31	224.5	170.2	154.4	340.5	9.80	220.3	163.1	163.7	326.1	8.20	216.0	
4ATLCS-200	110.9	96.5	221.7	14.90	142.3	106.4	101.8	212.9	14.22	139.5	101.7	107.7	203.3	13.49	136.6	
4ATLCS-240	139.3	119.3	278.5	14.75	177.9	133.6	126.6	267.3	13.14	174.7	127.7	133.7	255.3	11.42	170.9	
4ATLCS-280	160.1	140.5	320.1	16.35	205.7	152.8	148.6	305.7	14.50	200.9	145.7	157.3	291.4	12.65	196.7	
4ATLCS-320	184.5	157.7	368.9	9.46	235.7	176.0	166	352.1	8.47	229.9	167.3	174.9	334.5	7.44	223.9	
4ATLCS-360	214.5	182	428.9	14.45	273.7	205.3	192	410.4	13.73	267.4	196.0	202.9	392.1	13.03	261.8	

Note:

- 1MBH=10000 Btu/hr
- QE: Actual Evaporator Cooling Capacity
- QC: Condenser Total Heat Rejection
- WC: Compressor Motor Power Input at 380v, 3Ø, 50Hz
- P.D.: Water Pressure Drop (Ft.W.G.)
- W.F.D: Water Flow Data

Performance Data (Screw Compressor)

Air Cooled Chiller Evap. Leaving Water Temp. 46°F(Cont.)

REFRIGERANT = R134a (MVRI)	Model	Condensing Temperature									
		140°F					145°F				
		QE	WC	Evap. W.F.D. (ΔT=10°F)		QC	QE	WC	Evap. W.F.D. (ΔT=10°F)		QC
		MBH	KW	GPM	PD	MBH	MBH	KW	GPM	PD	MBH
	1ATLCS-50	24.3	28.5	48.3	1.18	33.4	23	31	45.9	0.1	32.7
	1ATLCS-60	30.4	35.4	60.7	2.06	41.8	28.8	37.4	57.5	1.83	40.8
	1ATLCS-70	34.8	41.6	69.5	0.76	48.3	32.9	44	65.7	0.4	47.2
	1ATLCS-80	39.8	46.3	79.5	1.98	54.9	37.6	48.8	75.1	1.57	53.3
	1ATLCS-90	46.8	53.7	93.6	3.28	64.2	44.4	56.8	88.7	2.84	62.7
	1ATLCS-110	59.3	66.7	118.5	3.95	80.9	56.5	70.8	112.9	3.45	79.3
	1ATLCS-125	67.5	75.9	134.9	5.14	92.1	64.3	80.7	128.5	4.46	90.3
	1ATLCS-140	78	86.8	155.9	4.15	106.1	74.3	93	148.5	3.49	104.0
	1ATLCS-180	98.12	110.9	196.3	*	134.2	93.3	117.2	186.4	*	131.2
	1ATLCS-210	115.12	126.5	230.3	*	156.2	109.7	133.8	219.2	*	152.9
	2ATLCS-100	48.3	56.9	96.5	2	66.8	45.8	60.2	91.8	1.58	65.2
	2ATLCS-120	60.8	70.8	121.3	3.71	83.6	57.5	74.7	114.9	3.04	81.6
	2ATLCS-140	69.5	83	138.9	2.62	96.4	65.7	87.9	131.3	1.93	94.2
	2ATLCS-160	79.5	92.5	158.9	6.35	109.5	75.1	97.5	150.1	5.31	106.6
	2ATLCS-180	93.5	107.3	186.9	12.4	128.3	88.7	113.5	177.3	11.47	125.4
	2ATLCS-220	118.5	133.3	236.9	7.65	161.7	112.9	141.5	225.6	6.19	158.6
	2ATLCS-250	134.9	151.9	269.7	5.87	184.1	128.5	161.3	256.8	7.21	180.7
	2ATLCS-280	155.9	173.5	311.7	6.60	212.1	148.5	185	296.9	4.95	208.0
	4ATLCS-200	96.7	113.7	192.9	12.67	133.2	91.7	121	183.3	11.95	130.6
	4ATLCS-240	121.3	141.3	242.5	9.58	167.1	114.8	149.3	229.7	7.75	163.3
	4ATLCS-280	138.9	167	277.7	10.89	192.7	131.2	175.7	262.5	8.94	188.1
	4ATLCS-320	158.9	184.9	317.7	6.44	218.8	150.0	194.9	300.0	5.42	213.2
	4ATLCS-360	186.9	214.5	373.7	12.32	256.4	177.2	226.9	354.5	11.58	250.7

Note:

1MBH=10000 Btu/hr

QE: Actual Evaporator Cooling Capacity

QC: Condenser Total Heat Rejection

WC: Compressor Motor Power Input at 380v, 3Ø, 50Hz

P.D.: Water Pressure Drop (Ft.W.G.)

W.F.D: Water Flow Data

Performance Data (Screw Compressor)

Air Cooled Chiller Evap. Leaving Water Temp. 42°F

Model	Condensing Temperature														
	110°F				115°F				120°F						
	QE	WC	Evap. W.F.D. (ΔT=10°F)		QC	QE	WC	Evap. W.F.D. (ΔT=10°F)		QC	QE	WC	Evap. W.F.D. (ΔT=10°F)		QC
	MBH	KW	GPM	PD	MBH	MBH	KW	GPM	PD	MBH	MBH	KW	GPM	PD	MBH
1ATLCS-50	40.7	29.4	81.2	3.52	50.3	39	31	77.9	3.29	49	37.4	32.7	74.7	3.07	47.9
1ATLCS-60	47.8	33.8	95.5	4.55	58.7	46	35.7	91.9	4.29	57.5	44.1	37.7	88.1	4.01	56.2
1ATLCS-70	54.9	38.4	109.7	4.56	67.3	52.9	40.6	105.7	4.18	66	50.8	42.8	101.2	3.76	64.4
1ATLCS-80	66.8	46.8	133.2	6.99	81.7	64.4	49.2	128.8	6.58	80.3	62.2	52	124.4	6.17	79.1
1ATLCS-90	76.8	53.2	153.5	8.89	94	74.3	56.2	148.5	8.42	92.5	71.7	59.4	143.2	7.93	90.8
1ATLCS-110	90.6	60.5	181.1	9.49	110.2	87.5	63.8	174.9	8.94	108.1	84.2	67.5	168.3	8.35	105.9
1ATLCS-125	99.9	67.9	199.7	11.97	121.9	96.5	71.7	192.9	11.25	119.7	92.9	75.8	185.9	10.50	117.4
1ATLCS-140	113.7	77.3	227.3	10.6	138.7	109.8	81.6	219.5	9.9	136.2	105.9	86.3	211.6	9.18	133.7
1ATLCS-180	157.2	102.5	314.3	*	190.3	151.80	107.6	303.6	*	186.7	146.4	113	292.8	*	183.0
1ATLCS-210	178	118	355.9	*	216.2	172.41	124.5	344.8	*	212.8	166.7	131.4	333.4	*	209.3
2ATLCS-100	81.1	58.7	162.1	7.81	100.1	77.9	61.9	155.7	7.24	97.9	74.7	65.3	149.3	6.67	95.7
2ATLCS-120	95.5	67.5	190.9	11.04	117.3	91.9	71.3	183.7	10.28	114.9	88.1	75.3	176.1	9.48	112.4
2ATLCS-140	109.7	76.7	219.3	9.88	134.5	105.7	80.9	211.3	9.16	131.9	101.3	85.5	202.4	8.35	128.9
2ATLCS-160	133.3	93.3	266.5	14.01	163.5	128.9	98.5	257.7	12.97	160.7	124.5	104	248.9	11.94	158.1
2ATLCS-180	153.5	106.4	306.9	21.46	187.9	148.5	112.3	296.9	20.69	184.9	143.3	118.7	286.5	19.89	181.6
2ATLCS-220	181.1	120.9	362.1	23.76	220.3	174.9	127.5	349.7	22.16	216.2	168.3	134.9	336.5	20.46	211.9
2ATLCS-250	199.7	135.8	399.3	22.55	243.7	192.9	143.3	385.7	23.80	239.3	185.9	151.5	371.7	21.99	234.9
2ATLCS-280	227.3	154.5	454.5	22.48	277.3	219.5	163	438.9	20.74	272.3	211.7	172.5	423.2	19.00	267.5
4ATLCS-200	162.1	117.3	324.1	21.28	200.1	155.7	123.6	311.3	19.45	195.8	149.3	130.5	298.5	17.61	191.5
4ATLCS-240	190.9	134.9	381.7	24.28	234.6	183.7	142.4	367.3	22.43	229.9	176.1	150.5	352.1	20.47	224.8
4ATLCS-280	219.3	153.3	438.5	21.70	268.9	211.3	161.6	422.5	19.92	263.7	202.5	170.9	404.9	17.96	257.8
4ATLCS-320	266.5	186.5	532.9	14.11	326.9	257.7	196.8	515.3	13.07	321.5	248.9	208	497.7	12.04	316.2
4ATLCS-360	306.9	212.5	613.7	21.56	375.7	296.9	224.4	593.7	20.79	369.6	286.5	237.3	572.9	19.99	363.3

Note:

1MBH=10000 Btu/hr

QE: Actual Evaporator Cooling Capacity

QC: Condenser Total Heat Rejection

WC: Compressor Motor Power Input at 380v, 3Ø, 50Hz

P.D.: Water Pressure Drop (Ft.W.G.)

W.F.D: Water Flow Data

Performance Data (Screw Compressor)

Air Cooled Chiller Evap. Leaving Water Temp. 42°F(Cont.)

REFRIGERANT = R134a (MVR2)

Model	Condensing Temperature									
	125°F					130°F				
	QE	WC	Evap. W.F.D. (ΔT=10°F)		QC	QE	WC	Evap. W.F.D. (ΔT=10°F)		QC
	MBH	KW	GPM	PD	MBH	MBH	KW	GPM	PD	MBH
1ATLCS-50	35.8	34.6	71.5	2.84	47	34.1	36.6	68.1	2.59	45.9
1ATLCS-60	42.2	39.8	84.3	3.75	55.1	40.3	42.2	80.5	3.48	53.9
1ATLCS-70	48.5	45.3	96.9	3.35	63.2	46.3	47.9	92.5	2.93	61.7
1ATLCS-80	60	55.2	119.9	5.75	77.9	57.7	58.5	115.3	5.32	76.6
1ATLCS-90	69.2	62.8	138.0	7.44	89.4	66.4	66.6	132.8	6.96	88.0
1ATLCS-110	80.8	71.3	161.4	7.75	103.8	77.3	75.6	154.6	7.14	101.8
1ATLCS-125	89.5	80.4	178.9	9.78	115.5	85.9	85.1	171.7	9.02	113.5
1ATLCS-140	101.9	91.4	203.7	8.47	131.5	97.8	96.9	195.5	7.74	129.1
1ATLCS-180	140.8	119	281.5	*	179.3	134.81	125.3	269.7	*	175.4
1ATLCS-210	160.9	138.8	321.7	*	205.9	154.91	146.6	309.9	*	202.5
2ATLCS-100	71.5	69.1	142.9	6.11	93.9	68.1	73	136.1	5.51	91.8
2ATLCS-120	84.3	79.5	168.5	8.68	109.9	80.5	84	160.9	7.88	107.7
2ATLCS-140	96.9	90.5	193.7	7.57	126.2	92.5	95.7	184.9	6.77	123.5
2ATLCS-160	119.9	110.3	239.7	10.85	155.6	115.3	116.9	230.5	9.77	153.1
2ATLCS-180	138.1	125.7	276.1	19.09	178.8	132.9	133.3	265.7	18.29	176.0
2ATLCS-220	161.5	142.7	322.9	18.71	207.7	154.7	151.3	309.3	16.96	203.6
2ATLCS-250	178.9	160.5	357.7	17.19	230.9	171.7	170	343.3	18.34	226.7
2ATLCS-280	203.7	182.7	407.3	17.24	262.9	195.5	193.7	390.9	15.41	258.2
4ATLCS-200	142.9	138.1	285.7	15.78	187.6	136.1	146	272.1	13.83	183.4
4ATLCS-240	168.5	158.9	336.9	18.52	219.9	160.9	168	321.7	16.56	215.4
4ATLCS-280	193.7	180.9	387.3	16.01	252.3	184.9	191.3	369.7	14.05	246.9
4ATLCS-320	239.7	220.5	479.3	10.95	311.1	230.5	233.7	460.9	9.87	306.1
4ATLCS-360	276.1	251.3	552.1	19.19	357.5	265.7	266.5	531.3	18.39	352.0

Note:

- 1MBH=10000 Btu/hr
- QE: Actual Evaporator Cooling Capacity
- QC: Condenser Total Heat Rejection
- WC: Compressor Motor Power Input at 380v, 3Ø, 50Hz
- P.D.: Water Pressure Drop (Ft.W.G.)
- W.F.D: Water Flow Data

Performance Data (Screw Compressor)

Air Cooled Chiller Evap. Leaving Water Temp. 44°F

REFRIGERANT = R134a (MVR2)

Model	Condensing Temperature														
	110°F				115°F				120°F						
	QE	WC	Evap. W.F.D. (ΔT=10°F)		QC	QE	WC	Evap. W.F.D. (ΔT=10°F)		QC	QE	WC	Evap. W.F.D. (ΔT=10°F)		QC
	MBH	KW	GPM	PD	MBH	MBH	KW	GPM	PD	MBH	MBH	KW	GPM	PD	MBH
1ATLCS-50	42.6	29.6	85.1	3.81	52.2	40.9	31.2	81.7	3.57	51	39.3	33	78.5	3.34	49.9
1ATLCS-60	50.1	34.1	100.2	4.88	61.1	48.2	36	96.3	4.61	59.8	46.3	38	92.5	4.34	58.5
1ATLCS-70	57.6	38.7	115.1	5.07	70.1	55.4	40.9	110.7	4.65	68.6	53.2	43	106.3	4.23	67.0
1ATLCS-80	69.8	47	139.5	7.58	85	67.5	49.7	134.9	7.15	83.6	65.2	52.5	130.3	6.71	82.1
1ATLCS-90	80.4	53.6	160.7	9.56	97.7	77.8	56.6	155.5	9.08	96.1	75.2	59.8	150.3	8.59	94.5
1ATLCS-110	94.8	60.9	189.5	10.24	114.5	91.5	64.3	183.1	9.67	112.4	88.2	67.9	176.3	9.07	110.1
1ATLCS-125	104.5	68.5	208.9	12.94	126.7	100.9	72.3	201.9	12.20	124.4	97.4	76.4	194.7	11.44	122.0
1ATLCS-140	118.9	77.9	237.7	11.54	144.1	114.9	82.2	229.7	10.82	141.5	110.9	86.9	221.7	10.09	138.9
1ATLCS-180	164.5	103.3	328.9	*	198	159.01	108.4	318.1	*	194.2	153.4	113.9	306.7	*	190.2
1ATLCS-210	186	118.8	371.9	*	224.5	180.21	125.3	360.5	*	220.9	174.4	132.3	348.7	*	217.2
2ATLCS-100	85.1	60	170.1	8.52	104.1	81.7	62.3	163.2	7.93	101.9	78.5	65.9	156.9	7.35	99.8
2ATLCS-120	100.0	69	200.1	12.01	122.1	96.3	71.9	192.4	11.21	119.6	92.5	75.9	184.9	10.41	117.1
2ATLCS-140	115.2	77.4	230.1	10.85	140.1	110.7	81.7	221.2	10.06	137.1	106.3	86	212.5	9.26	134.2
2ATLCS-160	139.5	94.5	278.8	15.47	169.9	134.9	99.3	269.6	14.38	167.1	130.3	104.9	260.5	13.30	164.2
2ATLCS-180	160.7	107	321.3	22.57	195.4	155.5	113	310.8	21.77	192.1	150.3	119.5	300.5	20.97	188.9
2ATLCS-220	189.5	121.7	378.9	25.92	228.9	183.1	128.5	366.0	24.27	224.7	176.3	135.7	352.5	22.52	220.2
2ATLCS-250	208.9	136.9	417.7	24.92	253.2	201.9	144.5	403.6	26.11	248.7	194.7	152.7	389.3	24.26	244.1
2ATLCS-280	237.7	155.7	475.3	24.79	288.1	229.7	164.3	459.2	23.01	282.9	221.7	173.7	443.3	21.23	277.9
4ATLCS-200	170.1	119	340.1	23.57	208.3	163.3	124.5	326.5	21.63	203.6	156.9	131.7	313.7	19.79	199.5
4ATLCS-240	200.1	137	400.1	26.65	244.2	192.5	143.7	384.9	24.69	239	184.9	151.7	369.7	22.74	234
4ATLCS-280	230.1	154.8	460.1	24.1	280.1	221.3	163.3	442.5	22.14	274.2	212.5	172	424.9	20.19	268.3
4ATLCS-320	278.9	189	557.7	15.58	339.8	269.7	198.5	539.3	14.48	333.9	260.5	209.7	520.9	13.40	328.4
4ATLCS-360	321.3	215	642.5	22.68	390.7	310.9	226	621.8	21.87	384.2	300.5	238.9	600.9	21.07	377.9

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Note:

- 1MBH=10000 Btu/hr
- QE: Actual Evaporator Cooling Capacity
- QC: Condenser Total Heat Rejection
- WC: Compressor Motor Power Input at 380v, 3Ø, 50Hz
- P.D.: Water Pressure Drop (Ft.W.G.)
- W.F.D: Water Flow Data

Performance Data (Screw Compressor)

Air Cooled Chiller Evap. Leaving Water Temp. 44°F(Cont.)

REFRIGERANT = R134a (MVR2)	Model	Condensing Temperature									
		125°F					130°F				
		QE	WC	Evap. W.F.D. (ΔT=10°F)		QC	QE	WC	Evap. W.F.D. (ΔT=10°F)		QC
		MBH	KW	GPM	PD	MBH	MBH	KW	GPM	PD	MBH
	1ATLCS-50	37.6	34.8	75.1	3.09	48.9	35.9	36.9	71.7	2.85	47.8
	1ATLCS-60	44.24	40.5	88.5	4.05	57.3	42.3	42.3	84.4	3.76	55.9
	1ATLCS-70	51	45.6	101.9	3.82	65.7	48.6	48.2	97.1	3.37	64.1
	1ATLCS-80	62.9	55.5	125.7	6.29	80.9	60.5	65.2	120.9	5.84	81.5
	1ATLCS-90	72.5	63.3	144.9	8.09	93	69.7	67.1	139.3	7.56	91.3
	1ATLCS-110	84.8	71.9	169.3	8.44	107.9	81.0	76.1	162.0	7.80	105.7
	1ATLCS-125	93.8	80.8	187.5	10.67	119.9	90.0	85.6	180.0	9.89	117.7
	1ATLCS-140	106.7	92	213.3	9.34	136.5	102.4	97.4	204.8	8.57	134.0
	1ATLCS-180	147.5	119.7	294.9	*	186.3	141.30	125.9	282.6	*	182.1
	1ATLCS-210	168.4	139.7	336.7	*	213.6	162.2	147.3	324.4	*	209.9
	2ATLCS-100	75.1	69.6	150.1	6.76	97.6	71.7	73.5	143.3	6.14	95.4
	2ATLCS-120	88.5	81	176.9	9.57	114.4	84.5	84.6	168.8	8.72	111.8
	2ATLCS-140	101.9	92	203.7	8.47	131.4	97.1	96.2	194.0	7.6	128.3
	2ATLCS-160	125.7	110.9	251.3	12.22	161.6	120.9	130.2	241.6	11.1	163.1
	2ATLCS-180	144.9	126.5	289.7	20.14	185.9	139.3	134	278.4	19.28	182.7
	2ATLCS-220	169.3	143.7	338.5	20.72	215.8	162.1	152.2	324.0	18.88	211.4
	2ATLCS-250	187.5	161.5	374.9	19.42	239.8	180.1	171.2	360.0	20.5	235.6
	2ATLCS-280	213.3	183.9	426.5	19.36	272.9	204.9	194.8	409.6	17.5	267.9
	4ATLCS-200	150.2	138.9	300.1	17.84	195.1	143.3	146.9	286.5	15.89	190.9
	4ATLCS-240	176.9	161	353.7	20.68	228.8	168.9	169.3	337.7	18.62	223.7
	4ATLCS-280	203.7	183	407.3	18.23	262.7	194.1	192.5	388.1	16.09	256.5
	4ATLCS-320	251.3	221.7	502.5	12.32	323.1	241.7	260.4	483.3	11.19	326.0
	4ATLCS-360	289.7	252.9	579.3	20.24	371.6	278.5	268	556.8	19.36	365.3

Note:

1MBH=10000 Btu/hr

QE: Actual Evaporator Cooling Capacity

QC: Condenser Total Heat Rejection

WC: Compressor Motor Power Input at 380v, 3Ø, 50Hz

P.D.: Water Pressure Drop (Ft.W.G.)

W.F.D: Water Flow Data

Performance Data (Screw Compressor)

Air Cooled Chiller Evap. Leaving Water Temp. 45°F

REFRIGERANT = R134a (MVR2)

Model	Condensing Temperature														
	110°F					115°F					120°F				
	QE	WC	Evap. W.F.D. (ΔT=10°F)		QC	QE	WC	Evap. W.F.D. (ΔT=10°F)		QC	QE	WC	Evap. W.F.D. (ΔT=10°F)		QC
	MBH	KW	GPM	PD	MBH	MBH	KW	GPM	PD	MBH	MBH	KW	GPM	PD	MBH
1ATLCS-50	43.6	29.7	87.1	3.95	53.2	41.9	31.4	83.7	3.71	52	40.2	33.1	80.3	3.47	50.8
1ATLCS-60	51.3	34.3	102.5	5.05	62.4	49.4	36	98.7	4.79	61.1	47.4	38.2	94.7	4.49	59.6
1ATLCS-70	58.9	38.6	117.7	5.32	71.4	56.8	40.9	113.5	4.92	70.2	54.5	43.3	108.9	4.47	68.4
1ATLCS-80	71.3	47.3	142.5	7.86	86.6	69.1	49.9	138.1	7.45	85.2	66.8	52.7	133.5	7.01	83.7
1ATLCS-90	82.2	53.9	164.3	9.9	99.6	79.6	56.8	159.1	9.42	97.9	76.9	59.9	153.7	8.90	96.2
1ATLCS-110	97	61.2	193.9	10.63	116.8	93.7	64.5	187.2	10.03	114.5	90.1	68.1	180.2	9.41	112.2
1ATLCS-125	106.8	68.8	213.5	13.42	129.1	103.3	72.5	206.5	12.68	126.8	99.6	76.6	199.2	11.89	124.3
1ATLCS-140	121.7	78.2	243.3	12.02	146.8	117.4	82.5	234.9	11.28	144.1	113.3	87.1	226.6	10.54	141.5
1ATLCS-180	123	80	245.9	*	148.9	118.73	83.9	237.5	*	146	114.4	88.7	228.7	*	143.1
1ATLCS-210	190.1	120	381	*	228.9	184.23	125.8	368.5	*	225	178.3	132.8	356.6	*	221.3
2ATLCS-100	87.2	59.3	174.2	8.88	106.2	83.8	62.8	167.2	8.28	104	80.4	66.1	160.6	7.68	101.7
2ATLCS-120	102.6	68.6	204.9	12.52	124.6	98.7	72	197.2	11.70	122	94.7	76.2	189.2	10.88	119.3
2ATLCS-140	117.8	77	235.3	11.34	142.6	113.4	81.8	226.9	10.55	140	108.8	86.8	217.6	9.72	136.9
2ATLCS-160	142.6	94.6	284.9	16.18	173.0	138.0	99.6	276.0	15.14	170.5	133.5	105.3	266.8	14.06	167.6
2ATLCS-180	164.4	107.7	328.6	23.11	199.1	159.2	113.5	318.1	22.32	195.9	153.6	120	307.2	21.49	192.5
2ATLCS-220	193.9	122.3	387.8	27.04	233.4	187.3	128.9	374.5	25.34	229	180.4	136.5	360.4	23.56	224.4
2ATLCS-250	213.6	137.6	426.9	26.09	257.9	206.6	144.9	412.9	27.30	253.3	199.2	154	398.0	25.39	248.8
2ATLCS-280	243.2	156.6	486.0	25.98	293.7	234.9	164.9	469.7	24.17	288.2	226.6	174.5	453.2	22.34	283.1
4ATLCS-200	174.2	118.5	348.1	24.72	212.5	167.3	125.3	334.6	22.78	207.9	160.5	133	320.9	20.82	203.3
4ATLCS-240	204.9	136.9	409.7	27.89	249.3	197.3	144	394.6	25.94	244	189.4	152.4	378.5	23.87	238.6
4ATLCS-280	235.3	155	470.5	25.26	285.2	226.9	163.8	453.9	23.39	279.9	217.7	172.9	435.4	21.34	273.7
4ATLCS-320	284.9	188.9	569.7	16.28	346.2	276.1	199.3	552.5	15.24	340.7	266.9	210.5	533.7	14.15	335.1
4ATLCS-360	328.5	215.4	656.9	23.22	398.3	318.1	226.9	636.5	22.42	391.6	307.3	239.7	614.5	21.59	384.9

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Note:

- 1MBH=10000 Btu/hr
- QE: Actual Evaporator Cooling Capacity
- QC: Condenser Total Heat Rejection
- WC: Compressor Motor Power Input at 380v, 3Ø, 50Hz
- P.D.: Water Pressure Drop (Ft.W.G.)
- W.F.D: Water Flow Data

Performance Data (Screw Compressor)

Air Cooled Chiller Evap. Leaving Water Temp. 45°F(Cont.)

REFRIGERANT = R134a (MVR2)

Model	Condensing Temperature									
	125°F					130°F				
	QE	WC	Evap. W.F.D. (ΔT=10°F)		QC	QE	WC	Evap. W.F.D. (ΔT=10°F)		QC
	MBH	KW	GPM	PD	MBH	MBH	KW	GPM	PD	MBH
1ATLCS-50	38.6	35	76.9	3.23	49.8	36.8	37	73.5	2.98	48.7
1ATLCS-60	45.4	40.3	90.7	4.21	58.4	43.4	42.6	86.7	3.92	57.1
1ATLCS-70	52.2	45.7	104.3	4.05	67	49.8	48.4	99.5	3.59	65.4
1ATLCS-80	64.4	55.7	128.7	6.57	82.4	61.9	59.1	123.7	6.11	80.9
1ATLCS-90	74.3	63.5	148.3	8.42	94.8	71.4	67.3	142.7	7.88	93.1
1ATLCS-110	86.7	72.4	173.4	8.80	109.9	83	76.4	166	8.15	107.6
1ATLCS-125	95.9	81.2	191.7	11.12	122.3	92.3	85.9	184.3	10.35	119.9
1ATLCS-140	109.4	92.4	218.4	9.78	139.0	104.8	97.7	209.6	9.00	136.5
1ATLCS-180	150.1	120.2	300.1	*	189	144.72	126.4	289.5	*	185.7
1ATLCS-210	172.3	140.2	344.5	*	218	165.92	147.9	331.9	*	213.9
2ATLCS-100	76.9	69.9	153.7	7.07	99.5	73.5	73.9	146.9	6.46	97.3
2ATLCS-120	90.7	80.5	181.3	10.03	116.8	86.7	85	173.3	9.19	114.2
2ATLCS-140	104.3	91.3	208.5	8.9	133.9	99.5	96.7	198.9	8.04	130.7
2ATLCS-160	128.7	111.3	257.3	12.92	164.7	123.7	119	247.3	11.75	161.9
2ATLCS-180	148.3	126.9	296.5	20.67	189.4	142.7	134.6	285.4	19.8	186.4
2ATLCS-220	173.4	144	346.5	21.76	219.9	165.9	152.7	331.8	19.86	215.3
2ATLCS-250	191.8	162	383.4	20.49	244.2	184.4	171.8	368.6	21.58	239.9
2ATLCS-280	218.4	184.6	436.6	20.48	278.1	209.7	195.6	419.4	18.55	272.9
4ATLCS-200	153.8	139.7	307.3	18.88	198.9	146.8	147.7	293.7	16.93	194.7
4ATLCS-240	181.4	160.9	362.6	21.82	233.5	173.3	170.1	346.5	19.75	228.5
4ATLCS-280	208.6	182.6	416.9	19.30	267.7	198.9	193.3	397.7	17.16	261.5
4ATLCS-320	257.4	222.6	514.5	13.02	329.4	247.4	236	494.5	11.86	323.8
4ATLCS-360	296.6	253.8	592.9	20.76	378.8	285.4	268.9	570.5	19.89	372.4

Note:

- 1MBH=10000 Btu/hr
- QE: Actual Evaporator Cooling Capacity
- QC: Condenser Total Heat Rejection
- WC: Compressor Motor Power Input at 380v, 3Ø, 50Hz
- P.D.: Water Pressure Drop (Ft.W.G.)
- W.F.D: Water Flow Data

Performance Data (Screw Compressor)

Air Cooled Chiller Evap. Leaving Water Temp. 46°F

Refrigerant = R134a (MVR2)

Model	Condensing Temperature														
	110°F					115°F					120°F				
	QE	WC	Evap. W.F.D. (ΔT=10°F)		QC	QE	WC	Evap. W.F.D. (ΔT=10°F)		QC	QE	WC	Evap. W.F.D. (ΔT=10°F)		QC
	MBH	KW	GPM	PD	MBH	MBH	KW	GPM	PD	MBH	MBH	KW	GPM	PD	MBH
1ATLCS-50	44.6	29.9	89.1	4.09	54.3	42.9	31.5	85.6	3.85	53.1	41.2	33.2	82.3	3.62	51.8
1ATLCS-60	52.5	34.4	104.9	5.22	63.6	50.6	36.3	101.2	4.95	62.4	48.7	38.4	97.2	4.68	60.9
1ATLCS-70	60.4	39.2	120.6	5.58	72.9	58.1	41.2	116.2	5.17	71.4	55.8	43.5	111.5	4.73	69.8
1ATLCS-80	72.9	47.5	145.9	8.18	88.4	70.7	49.9	141.3	7.75	86.9	68.4	52.9	136.5	7.30	85.3
1ATLCS-90	84.1	54.2	168.2	10.27	101.7	81.5	56.9	162.7	9.75	99.8	78.7	60.2	157.4	9.25	98.1
1ATLCS-110	99.2	61.5	198.3	11.02	119.2	95.8	64.8	191.5	10.42	116.8	92.3	68.4	184.5	9.79	114.3
1ATLCS-125	109.2	68.9	218.3	13.92	131.4	105.5	72.7	211.0	13.16	129.1	101.8	76.8	203.6	12.38	126.7
1ATLCS-140	124.3	78.6	248.5	12.50	149.7	120.2	82.9	240.4	11.76	146.9	115.9	87.5	231.9	11.02	144.3
1ATLCS-180	125.7	79.8	251.3	*	151.5	121.32	84.2	242.8	*	148.7	116.4	87.6	232.5	*	144.7
1ATLCS-210	194.3	119.5	388.5	*	232.9	188.32	126	376.8	*	229.2	182.4	134	364.5	*	225.4
2ATLCS-100	89.1	59.8	178.5	9.24	108.4	85.7	62.9	171.3	8.63	106.2	82.4	66.4	164.6	8.02	103.9
2ATLCS-120	104.9	68.9	209.8	13.01	127.2	101.2	72.5	202.2	12.23	124.7	97.2	76.6	194.1	11.38	121.9
2ATLCS-140	120.5	79	240.9	11.82	145.8	116.2	82.3	232.2	11.04	142.8	111.6	86.9	222.9	10.20	139.7
2ATLCS-160	145.9	94.9	291.7	16.96	176.6	141.4	99.9	282.5	15.89	173.7	136.6	105.7	272.9	14.76	170.7
2ATLCS-180	168.1	109	336.3	23.70	203.2	162.8	113.9	325.3	22.88	199.7	157.4	120.4	314.6	22.04	196.3
2ATLCS-220	198.3	122.7	396.6	28.18	238	191.6	129.6	382.9	26.44	233.5	184.6	136.8	368.9	24.64	228.8
2ATLCS-250	218.3	137.9	436.4	27.32	263	211.2	145.6	422.2	28.48	258.2	203.8	153.8	407.3	26.58	253.4
2ATLCS-280	248.5	158	496.8	27.18	300	240.4	165.8	480.6	25.38	294	231.9	174.9	463.7	23.50	288.5
4ATLCS-200	178.2	119.4	356.2	25.88	216.8	171.3	125.7	342.6	23.92	212	164.5	132.5	328.9	21.98	207.5
4ATLCS-240	209.8	137.4	419.3	29.13	254.2	202.2	144.9	404.2	27.16	249	194.2	152.9	388.2	25.12	243.6
4ATLCS-280	240.9	157	481.7	26.50	291.5	232.1	164.5	464.2	24.54	285.4	222.9	173.8	445.7	22.50	279.2
4ATLCS-320	291.6	189.6	583.3	17.07	353.2	282.5	199.7	564.9	15.99	347.2	272.9	211.3	545.7	14.87	341.5
4ATLCS-360	336.2	217	672.2	23.82	406.2	325.3	227.7	650.4	22.98	399.2	314.6	240.6	628.9	22.14	392.5

Note:

- 1MBH=10000 Btu/hr
- QE: Actual Evaporator Cooling Capacity
- QC: Condenser Total Heat Rejection
- WC: Compressor Motor Power Input at 380v, 3Ø, 50Hz
- P.D.: Water Pressure Drop (Ft.W.G.)
- W.F.D: Water Flow Data

Performance Data (Screw Compressor)

Air Cooled Chiller Evap. Leaving Water Temp. 46°F(Cont.)

REFRIGERANT = R134a (MVR2)	Model	Condensing Temperature									
		125°F					130°F				
		QE	WC	Evap. W.F.D. (ΔT=10°F)		QC	QE	WC	Evap. W.F.D. (ΔT=10°F)		QC
		MBH	KW	GPM	PD	MBH	MBH	KW	GPM	PD	MBH
	1ATLCS-50	39.6	35.3	78.9	3.37	50.8	37.8	37.2	75.4	3.12	49.8
	1ATLCS-60	46.6	40.3	92.9	4.38	59.7	44.5	42.7	88.8	4.08	58.2
	1ATLCS-70	53.5	45.9	106.9	4.30	68.3	51.2	48.5	102.2	3.84	66.9
	1ATLCS-80	65.8	55.9	131.7	6.85	84	63.4	59.2	126.7	6.39	82.6
	1ATLCS-90	75.9	63.7	151.7	8.72	96.5	73.1	67.5	146.2	8.20	94.9
	1ATLCS-110	88.7	72.4	177.3	9.16	112.1	84.9	76.7	169.9	8.50	109.7
	1ATLCS-125	98.1	81.4	196.1	11.60	124.5	94.3	86.2	188.5	10.79	122.1
	1ATLCS-140	111.7	92.6	223.3	10.24	141.7	107.5	99	214.7	9.46	139.1
	1ATLCS-180	112.12	92.5	224.3	*	142.2	108	97.9	215.9	*	139.7
	1ATLCS-210	176.01	140.5	352.1	*	221.6	169.8	148.3	339.5	*	217.8
	2ATLCS-100	78.9	71	157.8	7.42	101.6	75.3	74.2	150.5	6.78	99.3
	2ATLCS-120	92.9	80.7	185.8	10.49	119	88.7	85.3	177.3	9.61	116.3
	2ATLCS-140	106.9	91.8	213.8	9.37	136.6	102.2	96.9	204.2	8.51	133.5
	2ATLCS-160	131.7	111.7	263.4	13.63	167.9	126.7	118.2	253.3	12.45	165
	2ATLCS-180	151.7	127.3	303.4	21.18	192.9	146.1	134.8	292.1	20.32	189.8
	2ATLCS-220	177.3	144.8	354.5	22.78	224.2	169.9	153.2	339.7	20.88	219.6
	2ATLCS-250	196.2	162.8	392.2	21.62	248.8	188.5	172.2	376.9	22.66	244.3
	2ATLCS-280	223.4	185	446.5	21.59	283.3	214.7	197	429.3	19.68	278.2
	4ATLCS-200	157.7	140.1	315.4	20.01	203.2	150.5	148	300.9	17.98	198.6
	4ATLCS-240	185.7	161.3	371.4	22.94	237.9	177.3	170.5	354.5	20.78	232.6
	4ATLCS-280	213.7	183.3	427.4	20.45	273.0	204.1	193.7	408.2	18.32	266.9
	4ATLCS-320	263.3	223.3	526.5	13.73	335.5	253.3	236.5	506.6	12.56	329.9
	4ATLCS-360	303.3	254.5	606.5	21.28	385.7	292.2	269.7	584.2	20.42	379.6

Note:

- 1MBH=10000 Btu/hr
- QE: Actual Evaporator Cooling Capacity
- QC: Condenser Total Heat Rejection
- WC: Compressor Motor Power Input at 380v, 3Ø, 50Hz
- P.D.: Water Pressure Drop (Ft.W.G.)
- W.F.D: Water Flow Data

Condenser Total Heat Rejection for R22 [KBH]

Al Fin Table 4A

Model	TD (°F)				
	10	15	20	25	30
ATAC-075	29.0	45.5	63.3	82.1	101.9
ATAC-110	68.6	108.6	151.5	196.6	243.2
ATAC-150	76.7	121.4	169.6	220.7	274.3
ATAC-225	150.0	242.5	343.0	449.0	559.0
ATAC-300	169.8	271.1	380.0	494.2	612.1
ATAC-375	216.2	344.5	482.0	626.1	774.9
ATAC-450	252.4	403.2	565.4	735.6	911.4
ATAC-600	302.8	479.6	670.7	873.5	1085.9
ATAC-750	432.4	688.9	963.9	1252.1	1549.7
ATAC-900	504.8	806.4	1130.7	1471.1	1822.7
ATAC-1150	608.9	962.9	1339.5	1732.2	2136.1
ATAC-1150S	730.7	1155.5	1607.4	2078.6	2563.3
2xATAC-600	953.0	1514.6	2110.0	2727.5	3359.1
2xATAC-750	1023.2	1612.8	2233.7	2875.4	3530.7
2xATAC-900	1137.1	1770.9	2431.6	3110.6	3801.7
2xATAC-900S	1364.5	2125.1	2917.9	3732.7	4562.0
2xATAC-1150	1231.7	1914.2	2624.2	3353.0	4094.5
2xATAC-1150S	1478.0	2297.0	3149.0	4023.6	4913.4

Table A

No. of FPI	Correction Factor
8	0.79
10	0.91
12	1.00

Table B

Altitude(ft)	Adjustment Factor
0	1.00
1000	1.02
2000	1.03
3000	1.05
4000	1.07
5000	1.08
6000	1.10

NOTE:

KBH=1000 Btu/hr

Max Condensing Temperature= 135°F

Above given values are based on sea level altitude and 12 Fins per Inch coil. For different altitude and coil FPI (8 and 10), multiply THR value by the appropriate correction factor in Table A and divide by correction factor in Table B.

Condenser Total Heat Rejection for R22 [KBH]

CU Fin Table 4B

Model	TD (°F)				
	10	15	20	25	30
ATAC-075	29.5	46.3	64.5	83.8	104.1
ATAC-110	69.7	110.6	154.4	200.5	248.2
ATAC-150	78.0	123.7	173.0	225.5	280.4
ATAC-225	153.1	248.1	351.5	460.7	573.8
ATAC-300	172.8	276.5	388.0	505.0	625.7
ATAC-375	220.0	351.0	491.7	639.2	791.6
ATAC-450	257.0	411.3	577.3	751.7	931.9
ATAC-600	308.1	488.9	684.6	892.6	1110.5
ATAC-750	440.0	702.0	983.4	1278.4	1583.1
ATAC-900	513.9	822.5	1154.6	1503.4	1863.7
ATAC-1150	618.5	979.3	1363.4	1764.0	2176.1
ATAC-1150S	742.2	1175.2	1636.1	2116.8	2611.3
2xATAC-600	968.7	1541.5	2149.2	2779.4	3423.8
2xATAC-750	1038.1	1637.7	2269.5	2922.5	3589.2
2xATAC-900	1150.4	1792.6	2462.3	3150.4	3850.7
2xATAC-900S	1380.5	2151.1	2954.8	3780.5	4620.8
2xATAC-1150	1245.5	1936.6	2655.7	3393.9	4144.7
2xATAC-1150S	1494.6	2323.9	3186.8	4072.7	4973.6

Table A

No. of FPI	Correction Factor
8	0.79
10	0.91
12	1.00

Table B

Altitude(ft)	Adjustment Factor
0	1.00
1000	1.02
2000	1.03
3000	1.05
4000	1.07
5000	1.08
6000	1.10

NOTE:

KBH=1000 Btu/hr

Max Condensing Temperature= 135°F

Above given values are based on sea level altitude and 12 Fins per Inch coil. For different altitude and coil FPI (8 and 10), multiply THR value by the appropriate correction factor in Table A and divide by correction factor in Table B.

Condenser Total Heat Rejection for R134a [KBH]

Al Fin Table 6A

Model	TD (°F)				
	10	15	20	25	30
ATAC-075	32.5	50.0	68.2	87.0	106.5
ATAC-110	74.4	115.0	157.4	201.4	246.6
ATAC-150	84.9	131.0	179.4	229.7	281.7
ATAC-225	162.1	254.1	351.7	453.9	559.6
ATAC-300	182.9	284.5	391.0	501.6	615.6
ATAC-375	233.0	361.6	496.4	636.4	780.4
ATAC-450	272.2	423.2	581.9	746.9	916.8
ATAC-600	335.4	518.1	709.7	909.1	1115.4
ATAC-750	466.0	723.1	992.8	1272.7	1560.7
ATAC-900	544.4	846.4	1163.8	1493.7	1833.6
ATAC-1150	654.2	1010.2	1381.0	1763.8	2156.2
ATAC-1150S	785.0	1212.2	1657.2	2116.6	2587.4
2xATAC-600	1011.7	1568.8	2150.4	2750.3	3363.9
2xATAC-750	1084.4	1672.1	2281.6	2907.6	3546.2
2xATAC-900	1200.3	1836.4	2489.8	3156.6	3833.6
2xATAC-900S	1440.4	2203.7	2987.8	3787.9	4600.3
2xATAC-1150	1299.0	1984.7	2687.8	3404.5	4131.5
2xATAC-1150S	1558.8	2381.6	3225.4	4085.4	4957.8

Table A		Table B	
No. of FPI	Correction Factor	Altitude(ft)	Adjustment Factor
8	0.79	0	1.00
10	0.91	1000	1.02
12	1.00	2000	1.03
		3000	1.05
		4000	1.07
		5000	1.08
		6000	1.10

NOTE:

KBH=1000 Btu/hr

Max Condensing Temperature= 145°F

Above given values are based on sea level altitude and 12 Fins per Inch coil. For different altitude and coil FPI (8 and 10), multiply THR value by the appropriate correction factor in Table A and divide by correction factor in Table B.

Condenser Total Heat Rejection for R134a [KBH]

CU Fin Table 6B

Model	TD (°F)				
	10	15	20	25	30
ATAC-075	33.1	50.9	69.5	88.8	108.8
ATAC-110	45.7	70.0	95.4	121.5	148.5
ATAC-150	86.4	133.6	183.1	234.6	287.9
ATAC-225	165.6	259.9	360.2	465.3	574.0
ATAC-300	186.3	290.0	398.8	512.2	629.0
ATAC-375	237.2	368.4	506.2	649.4	796.7
ATAC-450	277.3	431.6	593.9	762.8	936.8
ATAC-600	341.7	528.4	724.3	928.5	1140.0
ATAC-750	474.4	736.8	1012.4	1298.7	1593.3
ATAC-900	554.6	863.1	1187.8	1525.5	1873.6
ATAC-1150	664.8	1027.2	1405.1	1795.4	2195.4
ATAC-1150S	797.8	1232.6	1686.1	2154.5	2634.5
2xATAC-600	1028.5	1596.3	2189.2	2801.1	3427.0
2xATAC-750	1100.3	1697.6	2317.4	3141.1	3603.6
2xATAC-900	1214.5	1858.7	2520.6	3196.2	3882.0
2xATAC-900S	1457.4	2230.4	3024.7	3835.4	4658.4
2xATAC-1150	1313.7	2007.7	2719.5	3445.1	4181.2
2xATAC-1150S	1576.4	2409.2	3263.4	4134.1	5017.4

Table A

No. of FPI	Correction Factor
8	0.79
10	0.91
12	1.00

Table B

Altitude(ft)	Adjustment Factor
0	1.00
1000	1.02
2000	1.03
3000	1.05
4000	1.07
5000	1.08
6000	1.10

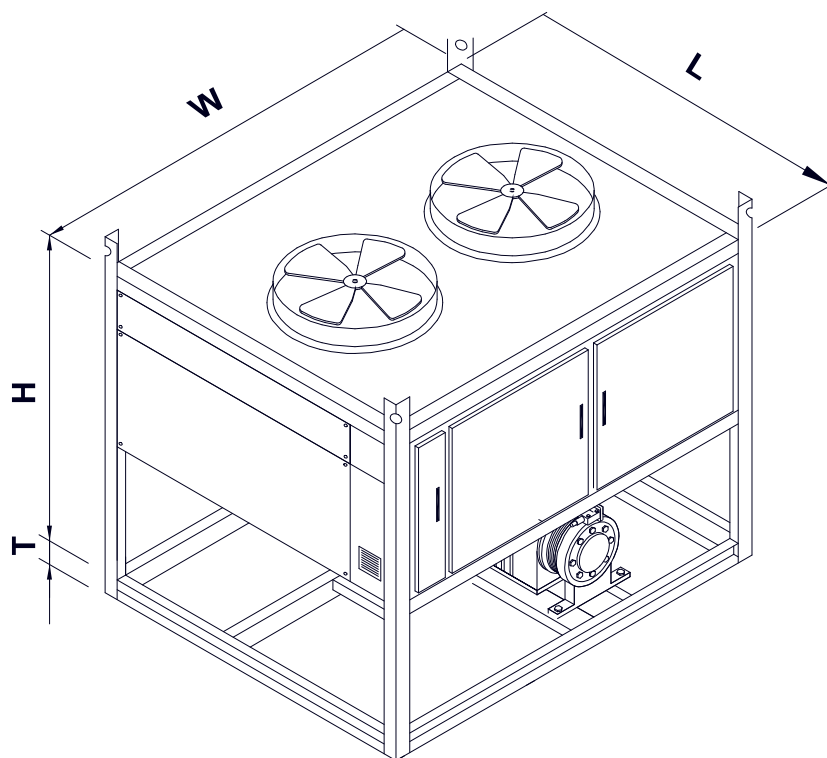
NOTE:

KBH=1000 Btu/hr

Max Condensing Temperature= 145°F

Above given values are based on sea level altitude and 12 Fins per Inch coil. For different altitude and coil FPI (8 and 10), multiply THR value by the appropriate correction factor in Table A and divide by correction factor in Table B.

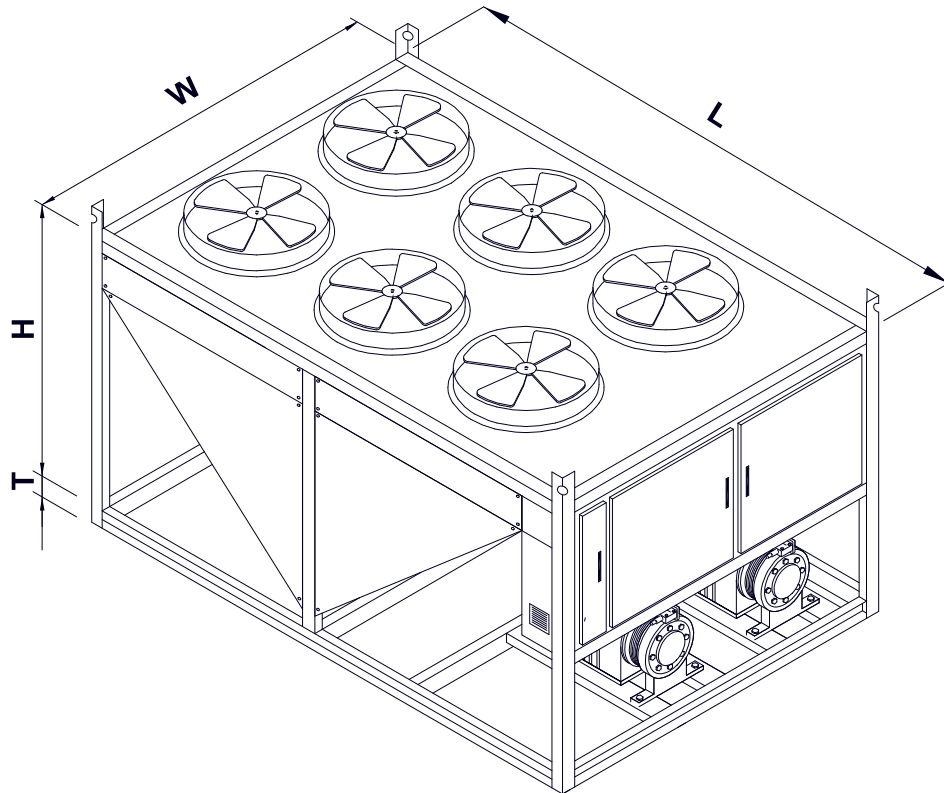
Dimensions



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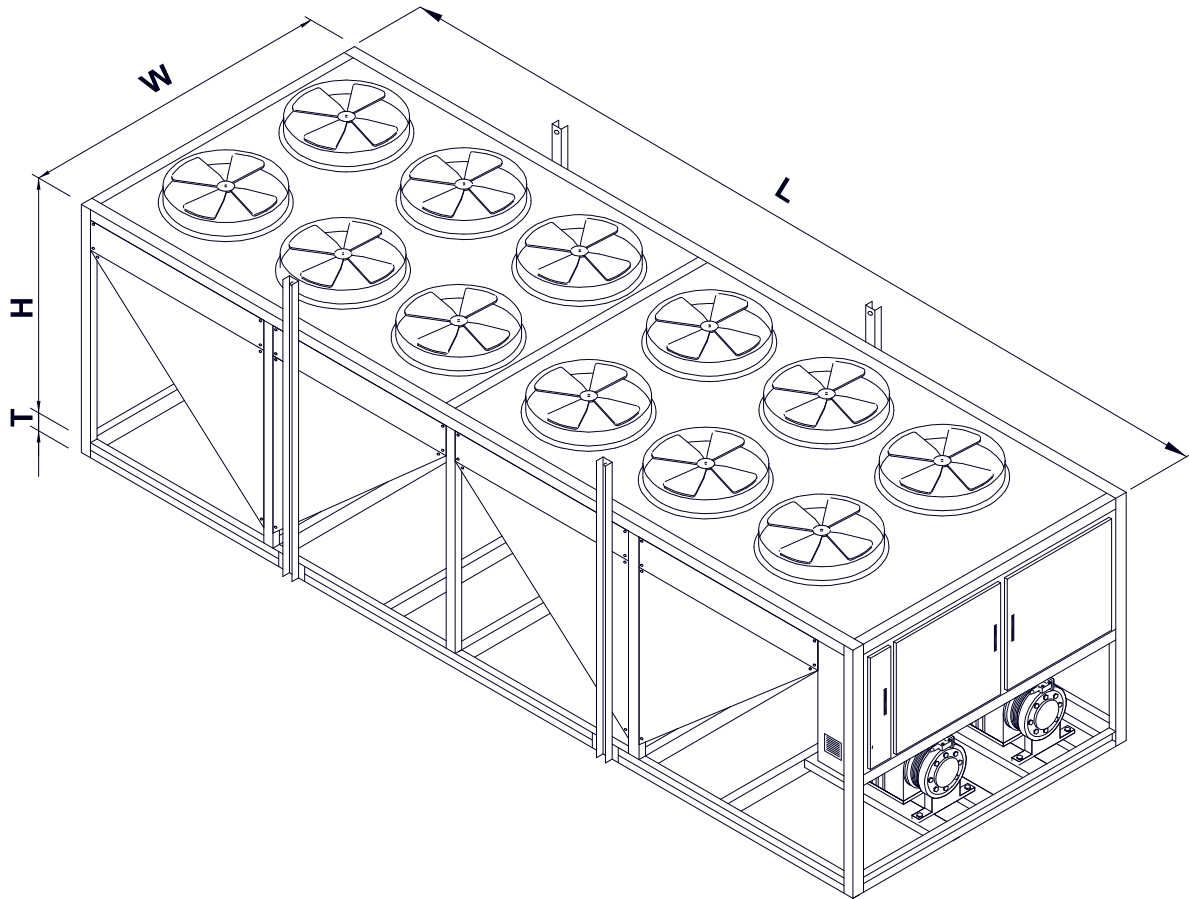
Condenser Model	Coil Type	L(cm)	W(cm)	H(cm)	T(cm)
ATAC-075	F-TYPE	115	120	131	10
ATAC-110	F-TYPE	145	210	131	10
ATAC-150	F-TYPE	145	210	131	10

Dimensions



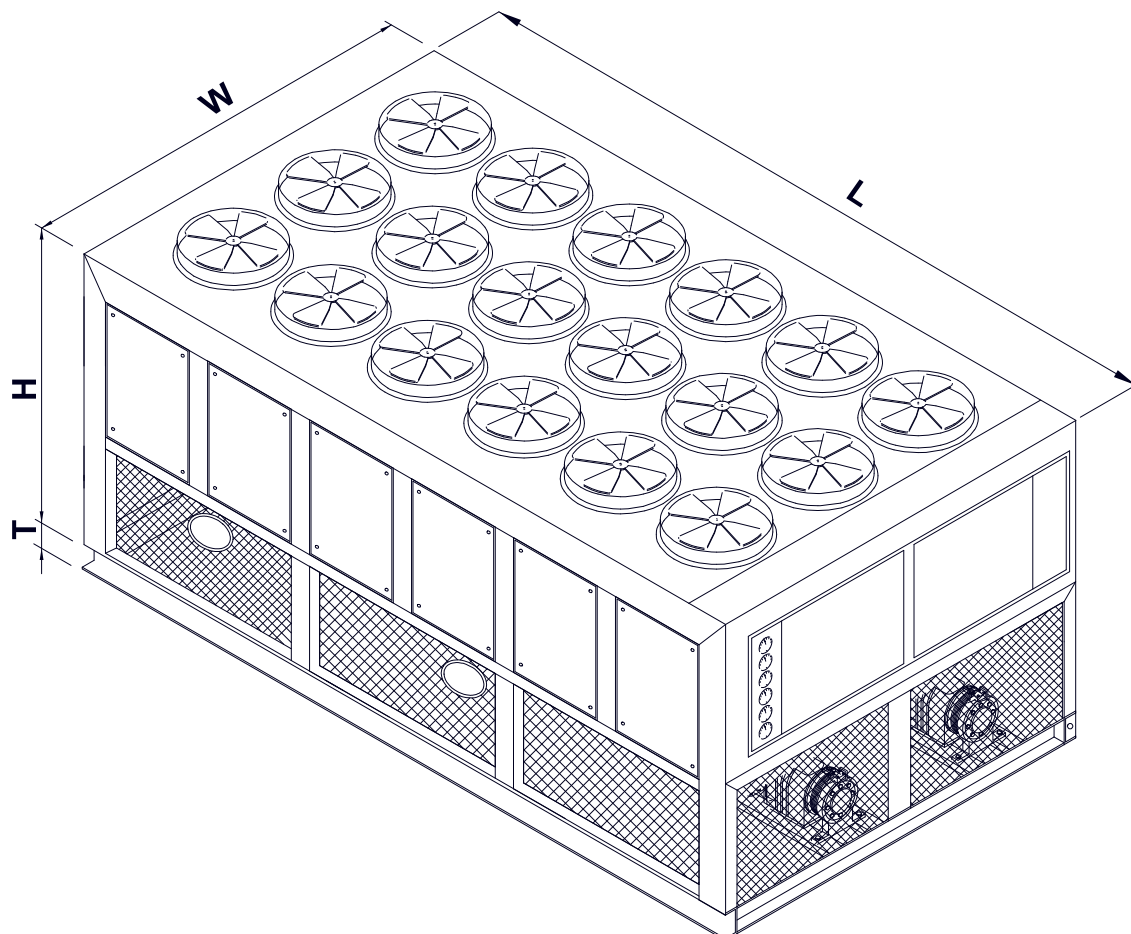
Condenser Model	Coil Type	L(cm)	W(cm)	H(cm)	T(cm)
ATAC-225	V-TYPE	213	210	136	12
ATAC-300	V-TYPE	213	210	136	12
ATAC-375	V-TYPE	302	210	136	12
ATAC-450	V-TYPE	302	210	166	12
ATAC-600	V-TYPE	411	210	161	14

Dimensions



Condenser Model	Coil Type	L(cm)	W(cm)	H(cm)	T(cm)
ATAC-750	V-TYPE	594	240	166	14
ATAC-900	V-TYPE	594	240	166	16
ATAC-1150	V-TYPE	594	240	166	16

Dimensions



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Condenser Model	Coil Type	L(cm)	W(cm)	H(cm)	T(cm)
2xATAC-600	V-TYPE	601	330	202	16
2xATAC-750	V-TYPE	601	330	217	16
2xATAC-900	V-TYPE	671	330	272	18
2xATAC-1150	V-TYPE	701	330	292	18

Chiller Technical Data (Reciprocating Compressor)

Model	Refrigerant Charge(Kg)			Oil Charge			Weight (Kg)		Piping Connection
	R22	R407c	R134a	U.S. Gals	Type		Net.	Oper.	
					R22	R134a			
1ATLCR-5	1.5	1.5	1.6	0.65	3 GS	Polyoleser	280	296	1 1/2"
1ATLCR-7.5	2	1.9	2.1	1	3 GS	Polyoleser	320	336	1 1/2"
1ATLCR-10	3.5	3.4	3.7	1	3 GS	Polyoleser	355	380	2"
1ATLCR-15	5	4.9	5.3	1	3 GS	Polyoleser	458	506	2"
1ATLCR-20	6.5	6.3	6.8	1	3 GS	Polyoleser	465	521	2 1/2"
1ATLCR-25	8	7.8	8.4	1.1	3 GS	Polyoleser	475	535	2 1/2"
1ATLCR-30	18	17.5	18.9	1.1	3 GS	Polyoleser	522	594	3"
1ATLCR-35	11	10.7	11.6	1.1	3 GS	Polyoleser	625	730	3"
1ATLCR-40	12.5	12.1	13.1	2	3 GS	Polyoleser	667	770	3"
1ATLCR-50	15.5	15.0	16.3	2	3 GS	Polyoleser	735	874	3"
1ATLCR-60	19	18.4	20.0	2	3 GS	Polyoleser	842	980	3"
2ATLCR-10	3.2	3.1	3.4	1.3	3 GS	Polyoleser	460	385	2"
2ATLCR-15	4.5	4.4	4.7	2	3 GS	Polyoleser	561	610	2"
2ATLCR-20	7.6	7.4	8.0	2	3 GS	Polyoleser	655	726	3"
2ATLCR-30	10	9.7	10.5	2	3 GS	Polyoleser	678	750	3"
2ATLCR-40	13	12.6	13.7	2	3 GS	Polyoleser	793	897	3"
2ATLCR-50	16	15.5	16.8	2.2	3 GS	Polyoleser	870	1000	3"
2ATLCR-60	36	34.9	37.8	2.2	3 GS	Polyoleser	925	1055	3"
2ATLCR-70	22	21.3	23.1	2.2	3 GS	Polyoleser	1025	1190	4"
2ATLCR-80	25	24.3	26.3	4	3 GS	Polyoleser	1180	1402	4"
2ATLCR-100	31	30.1	32.6	4	3 GS	Polyoleser	1370	1670	5"
2ATLCR-120	38	36.9	39.9	4	3 GS	Polyoleser	1580	1861	5"
4ATLCR-80	26	25.2	27.3	4	3 GS	Polyoleser	1490	1852	4"
4ATLCR-100	32	31.0	33.6	4.4	3 GS	Polyoleser	1610	2012	5"
4ATLCR-120	72	69.8	75.6	4.4	3 GS	Polyoleser	1680	2050	5"
4ATLCR-140	44	42.7	46.2	4.4	3 GS	Polyoleser	1868	2311	5"
4ATLCR-160	50	48.5	52.5	8	3 GS	Polyoleser	2012	2480	5"
4ATLCR-200	62	60.1	65.1	8	3 GS	Polyoleser	2350	2980	6"
4ATLCR-240	76	73.7	79.8	8	3 GS	Polyoleser	2770	3480	6"

NOTE:

System Total Operation Charge = Chiller Operating Charge + Air Cooled Condenser Operating

Total Weight= Chiller Weight + Condenser Weight

Chiller Technical Data (Screw Compressor)

Model	R22, R134a(MVR1)			R134a(MVR2)		
	Oil Charge (u.s.Gals)	Ref. Charge (Kg)	Oper. Weight (Kg)	Oil Charge (u.s.Gals)	Ref. Charge (Kg)	Oper. Weight (Kg)
1ATLCS-50	2.5	15	1175	4	21	1355
1ATLCS-60	2.5	18	1175	4	25	1365
1ATLCS-70	4	21	1608	4	30	1608
1ATLCS-80	4	24	1631	6	24	1943
1ATLCS-90	4	27	1810	6	38	1945
1ATLCS-100	4	32	2100	*	*	*
1ATLCS-110	6	33	2420	6	47	2446
1ATLCS-125	6	38	2440	5	54	2460
1ATLCS-140	6	42	2560	5	58	2600
1ATLCS-180	*	*	*	*	*	*
1ATLCS-210	*	*	*	*	*	*
2ATLCS-100	5	30	2000	8	42	2380
2ATLCS-120	5	36	2000	8	50	2400
2ATLCS-140	8	42	3145	8	59	3165
2ATLCS-160	8	48	3176	11.7	67	4016
2ATLCS-180	8	54	3321	11.7	76	4151
2ATLCS-200	8	61	3780	*	*	*
2ATLCS-220	11.7	66	4237	11.7	93	4267
2ATLCS-250	11.7	75	4530	10	105	4565
2ATLCS-280	11.7	84	5400	10	118	5435
4ATLCS-200	10	60	4045	16	84	5025
4ATLCS-240	10	72	4105	16	101	5125
4ATLCS-280	16	84	5900	16	118	5975
4ATLCS-320	16	96	5980	23.3	134	7518
4ATLCS-360	16	108	7165	23.3	152	8715

NOTE:

System Total Operation Charge = Chiller Operating Charge + Air Cooled Condenser Operating

Total Weight= Chiller Weight + Condenser Weight

DL: Discharge Line

LL: Liquid Line

Lubrication Oil Type is B320SH for R22 and BSE170 for others.

Condenser Technical Data

Condenser Model	Propeller Fan						Coil		Refrigerant				No. of Circuit	Unit Weight (Kg)	Electrical Data	
	No.	DIA (mm)	RPM	Power (KW)	Current (Ampere)	Total CFM	Rows Deep	Total CFA (Sq.ft)	Charge R22 (Kg)	Charge R407c (Kg)	Charge R134a (Kg)	Pump Down Capacity (Kg)			Total Ampere	Total Power Input
ATAC-075	1	630	900	0.45	1.5	6300	3	7.8	5	4.9	5.3	12	1	210	1.50	0.64
ATAC-110	2	630	900	0.45	1.5	12600	3	19.2	7	6.8	7.4	22	1,2	325	3.00	1.28
ATAC-150	2	700	900	1.2	3.1	16000	3	20.3	9	8.7	9.5	31	1,2	350	6.20	2.60
ATAC-225	4	700	900	1.2	3.1	32000	3	34.8	13	12.6	13.7	46	1,2	540	12.4	5.20
ATAC-300	4	700	900	1.2	3.1	32000	3	44.5	18	17.5	18.9	60	1,2	670	12.4	5.20
ATAC-375	5	700	900	1.2	3.1	40000	3	58.1	22	21.3	23.1	71	1,2	1030	15.5	6.50
ATAC-450	6	700	900	1.2	3.1	48000	3	65.8	27	26.2	28.4	90	1,2	1190	18.6	7.80
ATAC-600	8	700	900	1.2	3.1	64000	3	79.4	35	34.0	36.8	120	1,2	1680	24.8	10.4
ATAC-750	10	700	900	1.2	3.1	80000	3	116.2	44	42.7	46.2	150	1,2	2000	31.0	13.0
ATAC-900	12	700	900	1.2	3.1	96000	3	131.7	53	51.4	55.7	185	1,2,4	2350	37.2	15.6
ATAC-1150	12	700	900	1.2	3.1	81600	4	131.7	70	67.9	73.5	240	1,2,4	2690	37.2	15.6
ATAC-1150S	12	700	900	1.2	3.1	81600	4	131.7	70	67.9	73.5	240	1,2,4	2710	37.2	15.6
2xATAC-600	18	800	900	1.5	3.5	144000	4	199.4	71	68.9	74.6	256	1,2,4	4200	63	36
2xATAC-750	18	800	900	1.5	3.5	144000	4	237.3	96	93.1	100.8	310	1,2,4	4800	63	36
2xATAC-900	18	800	900	1.5	3.5	144000	4	313.3	110	106.7	115.5	380	1,2,4	5100	63	36
2xATAC-900S	18	800	900	1.5	3.5	153000	4	313.3	110	106.7	115.5	380	1,2,4	5160	63	36
2xATAC-1150	18	800	900	1.5	3.5	153000	4	351.3	130	126.1	136.5	450	1,2,4	5450	63	36
2xATAC-1150S	18	800	900	1.5	3.5	153000	4	351.3	130	126.1	136.5	450	1,2,4	5490	63	36

NOTE:

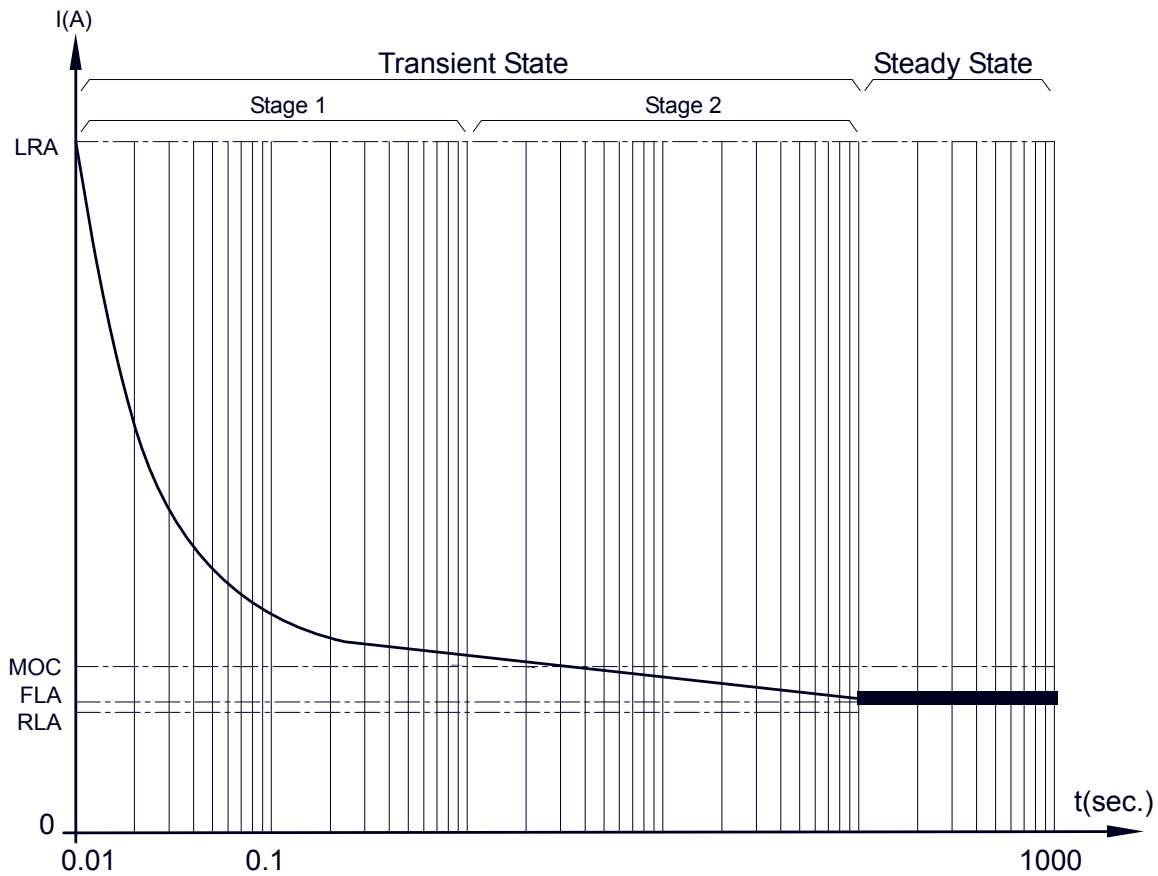
System Total Operation Charge = Chiller Operating Charge + Air Cooled Condenser Operating

Total Weight= Chiller Weight + Condenser Weight

System Total Power Input = Chiller Power Input + Air Condenser Power Input

System Total Ampere = Chiller Total Ampere + Air Condenser Total Ampere

Electrical Schematic Curve at the Start- Up (Per Compressor)



Graph Fig. No.1

Locked Rotor Amps (LRA): Peak of transient electrical current at the instant of compressor motor start-up. (stage1)

Maximum Operating Current (MOC): Maximum electrical current tolerates by compressor motor. This current exists only when the system has been idle (warm evaporator, condenser & connecting piping) & lasts for a short period until the system reaches the steady state condition. Other wise the stage 2 of transient state on the graph can be ignored.

Full Load Amps (FLA): Maximum electrical drawn at the most undesirable system working condition under steady state operation.

Rated Load Amps (RLA): Nominal electrical current drawn at normal working condition under steady state operation.

Note: Because of the part winding start method for Chillers equipped with 50 hp and higher compressors and Chillers that utilize unloaders the transient stage is drastically reduced and its curve differs from the above.

Chiller Electrical Data (Reciprocating Compressor)

Model	Chiller Electrical Data (Refrigerant: R22)						
	Per Compressor					Total	
	HP	RLA	FLA	MOC	LRA	KW	FLA
1ATLCR-5	5	8.8	9.8	10.3	55	5.6	9.8
1ATLCR-7.5	7.5	15.5	17.3	18	106	9.6	17.3
1ATLCR-10	10	18.1	20.3	21.3	121	11.4	20.3
1ATLCR-15	15	24.3	27.4	28.8	129	15.4	27.4
1ATLCR-20	20	27.3	30.3	31.6	175	17.5	30.3
1ATLCR-25	25	33.7	37.7	42.4	199	22.3	37.7
1ATLCR-30	30	40.3	45.1	48	221	26.8	45.1
1ATLCR-35	35	53.3	60	63.6	304	34.6	60
1ATLCR-40	40	61.3	68.9	75.3	304	41.9	68.9
1ATLCR-50	50	72.6	80.9	91.6	444	46.9	80.9
1ATLCR-60	60	89.9	96	106	476	58.2	96

2ATLCR-10	5	8.8	9.8	10.3	55	11.2	19.6
2ATLCR-15	7.5	15.5	17.3	18	106	19.2	34.6
2ATLCR-20	10	18.1	20.3	21.3	121	22.8	40.6
2ATLCR-30	15	24.3	27.4	28.8	129	46.6	54.8
2ATLCR-40	20	27.3	30.3	31.6	175	35	60.6
2ATLCR-50	25	33.7	37.7	42.4	199	44.6	75.4
2ATLCR-60	30	40.3	45.1	48	221	53.6	90.2
2ATLCR-70	35	53.3	60	63.6	304	69.2	120
2ATLCR-80	40	61.3	68.9	75.3	304	82.2	137.8
2ATLCR-100	50	72.6	80.9	91.6	444	3.8	161.8
2ATLCR-120	60	89.9	96	106	476	116.4	192

4ATLCR-80	20	27.3	30.3	31.6	175	70	121.2
4ATLCR-100	25	33.7	37.7	42.4	199	89.2	150.8
4ATLCR-120	30	40.3	45.1	48	221	107.2	180.4
4ATLCR-140	35	53.3	60	63.6	304	138.4	240
4ATLCR-160	40	61.3	68.9	75.3	304	164.4	275.6
4ATLCR-200	50	72.6	80.9	91.6	444	187.6	323.6
4ATLCR-240	60	89.9	96	106	476	232.8	384

System Cable Size	
System Total Ampere (up to)	Cable Size (mm)
20 A	4x2.5
30 A	4x4
40 A	4x6
50 A	4x10
70 A	4x16
90 A	3x25/16
110 A	3x35/16
140 A	3x50/25
170 A	3x70/35
210 A	3x95/50
240 A	3x120/70
280 A	3x150/70
320 A	3x185/95
370 A	3x240/120
420 A	2x(3x95/50)
490 A	2x(3x120/70)
560 A	2x(3x150/70)
640 A	2x(3x185/95)
700 A	2x(3x240/120)

NOTE:

LRA: Locked Rotor Amps

MOC: Maximum Operating Current

FLA: Full Load Amps

RLA: Rated Load Amps

System Total Power Input = Chiller Power Input + Air Condenser Power Input

System Total Ampere = Chiller Total Ampere + Air Condenser Total Ampere

For system wire sizing add the chiller total ampere and air condenser total ampere.

Chiller Electrical Data (Reciprocating Compressor)

Model	Chiller Electrical Data (Refrigerant: R134a)						
	Per Compressor					Total	
	HP	RLA	FLA	MOC	LRA	KW	FLA
1ATLCR-5	5	10.5	11.6	15.9	55	6.5	11.6
1ATLCR-7.5	7.5	12.4	13.6	18.3	70	7.9	13.6
1ATLCR-10	10	18	19.9	20.5	104	11.7	19.9
1ATLCR-15	15	23.5	26.2	27	156	14.9	26.2
1ATLCR-20	20	35.8	40.9	41.9	175	26.4	40.9
1ATLCR-30	30	43.2	49.9	51	221	29.6	49.9
1ATLCR-40	40	56.1	61.9	63	357	32.6	61.9
1ATLCR-50	50	68.2	75.5	77	458	39.7	75.5
1ATLCR-60	60	80.4	88.1	88.2	476	45.3	88
2ATLCR-10	5	10.5	11.6	15.9	55	13	23.2
2ATLCR-15	7.5	12.4	13.6	18.3	70	15.8	27.2
2ATLCR-20	10	18	19.9	20.5	104	23.4	39.8
2ATLCR-30	15	23.5	26.2	27	156	29.8	52.4
2ATLCR-40	20	35.8	40.9	41.9	175	49.2	81.8
2ATLCR-60	30	43.2	49.9	51	221	59.2	99.8
2ATLCR-80	40	56.1	61.9	63	357	65.2	123.8
2ATLCR-100	50	68.2	75.5	77	458	79.4	151
2ATLCR-120	60	80.4	88.1	88.2	476	90.6	176
4ATLCR-80	20	35.8	40.9	41.9	175	98.4	163.6
4ATLCR-120	30	43.2	49.9	51	221	118.4	199.6
4ATLCR-160	40	56.1	61.9	63	357	130.4	274.6
4ATLCR-200	50	68.2	75.5	77	458	158.8	302
4ATLCR-240	60	80.4	88.1	88.2	476	181.2	352.4

System Cable Size	
System Total Ampere (up to)	Cable Size (mm)
20 A	4x2.5
30 A	4x4
40 A	4x6
50 A	4x10
70 A	4x16
90 A	3x25/16
110 A	3x35/16
140 A	3x50/25
170 A	3x70/35
210 A	3x95/50
240 A	3x120/70
280 A	3x150/70
320 A	3x185/95
370 A	3x240/120
420 A	2x(3x95/50)
490 A	2x(3x120/70)
560 A	2x(3x150/70)
640 A	2x(3x185/95)
700 A	2x(3x240/120)

NOTE:

LRA: Locked Rotor Amps

MOC: Maximum Operating Current

FLA: Full Load Amps

RLA: Rated Load Amps

System Total Power Input = Chiller Power Input + Air Condenser Power Input

System Total Ampere = Chiller Total Ampere + Air Condenser Total Ampere

For system wire sizing add the chiller total ampere and air condenser total ampere.

Chiller Electrical Data (Screw Compressor)

Model	Chiller Electrical Data (Refrigerant: R22)						
	Per Compressor					Total	
	HP	RLA	FLA	MOC	LRA	KW	FLA
1ATLCS-50	50	68	77.8	86	218	47	77.8
1ATLCS-60	60	83.6	95.7	108	269	58.3	95.7
1ATLCS-70	70	98	110.5	128	290	68.2	110.5
1ATLCS-80	80	110	124	144	350	76.3	124
1ATLCS-90	90	124.4	140.8	162	423	88.1	140.8
1ATLCS-100	100	141	152.4	170	479	95.3	152.4
1ATLCS-110	110	154.2	176.5	180	520	108.4	176.5
1ATLCS-125	125	176.6	202	216	612	123.5	202
1ATLCS-140	140	209	239	246	665	146.7	239
1ATLCS-180	180	263	283	310	602	169.5	283
1ATLCS-210	210	292	339	370	1853	209	339
2ATLCS-100	50	68	77.8	86	218	94	155.6
2ATLCS-120	60	83.6	95.7	108	269	116.6	191.4
2ATLCS-140	70	98	110.5	128	290	136.4	221
2ATLCS-160	80	110	124	144	350	152.6	248
2ATLCS-180	90	124.4	140.8	162	423	176.2	281.6
2ATLCS-200	100	141	152.4	170	479	190.6	304.8
2ATLCS-220	110	154.2	176.5	180	520	216.8	353
2ATLCS-250	125	176.6	202	216	612	247	404
2ATLCS-280	140	209	239	246	665	293.4	478
4ATLCS-200	50	68	77.8	86	218	188	311.2
4ATLCS-240	60	83.6	95.7	108	269	233.2	382.8
4ATLCS-280	70	98	110.5	128	290	272.8	442
4ATLCS-320	80	110	124	144	350	305.2	496
4ATLCS-360	90	124.4	140.8	162	423	352.4	563.2

System Cable Size	
System Total Ampere (up to)	Cable Size (mm)
20 A	4x2.5
30 A	4x4
40 A	4x6
50 A	4x10
70 A	4x16
90 A	3x25/16
110 A	3x35/16
140 A	3x50/25
170 A	3x70/35
210 A	3x95/50
240 A	3x120/70
280 A	3x150/70
320 A	3x185/95
370 A	3x240/120
420 A	2x(3x95/50)
490 A	2x(3x120/70)
560 A	2x(3x150/70)
640 A	2x(3x185/95)
700 A	2x(3x240/120)

Note:

LRA: Locked Rotor Amps

MOC: Maximum Operating Current

FLA: Full Load Amps

RLA: Rated Load Amps

System Total Power Input = Chiller Power Input + Air Condenser Power Input

System Total Ampere = Chiller Total Ampere + Air Condenser Total Ampere

For system wire sizing add the chiller total ampere and air condenser total ampere.

Chiller Electrical Data (Screw Compressor)

Model	Chiller Electrical Data (Refrigerant: R134a, MVR1)						
	Per Compressor					Total	
	HP	RLA	FLA	MOC	LRA	KW	FLA
1ATLCS-50	50	50.9	54.1	86	218	30.8	54.1
1ATLCS-60	60	62.5	66.5	108	269	38.3	66.5
1ATLCS-70	70	72.4	76.8	128	290	44.8	76.8
1ATLCS-80	80	80.2	85.5	144	350	49.9	85.5
1ATLCS-90	90	89.4	95.4	162	423	57.9	95.4
1ATLCS-110	110	114	121.6	180	520	72	121.6
1ATLCS-125	125	130.9	139.5	216	612	82	139.5
1ATLCS-140	140	148.2	158	246	665	93.7	158
1ATLCS-180	180	193.5	206	310	602	118.8	206
1ATLCS-210	210	213	225	370	1853	134.9	225
2ATLCS-100	50	50.9	54.1	86	218	61.6	108.2
2ATLCS-120	60	62.5	66.5	108	269	76.6	133
2ATLCS-140	70	72.4	76.8	128	290	89.6	153.6
2ATLCS-160	80	80.2	85.5	144	350	99.8	171
2ATLCS-180	90	89.4	95.4	162	423	115.8	190.8
2ATLCS-220	110	114	121.6	180	520	144	243.2
2ATLCS-250	125	130.9	139.5	216	612	164	279
2ATLCS-280	140	148.2	158	246	665	187.4	316
4ATLCS-200	50	50.9	54.1	86	218	123.2	216
4ATLCS-240	60	62.5	66.5	108	269	153.2	266
4ATLCS-280	70	72.4	76.8	128	290	179.2	307
4ATLCS-320	80	80.2	85.5	144	350	199.6	342
4ATLCS-360	90	89.4	95.4	162	423	231.6	381.6

System Cable Size	
System Total Ampere (up to)	Cable Size (mm)
20 A	4x2.5
30 A	4x4
40 A	4x6
50 A	4x10
70 A	4x16
90 A	3x25/16
110 A	3x35/16
140 A	3x50/25
170 A	3x70/35
210 A	3x95/50
240 A	3x120/70
280 A	3x150/70
320 A	3x185/95
370 A	3x240/120
420 A	2x(3x95/50)
490 A	2x(3x120/70)
560 A	2x(3x150/70)
640 A	2x(3x185/95)
700 A	2x(3x240/120)

Note:

LRA: Locked Rotor Amps

MOC: Maximum Operating Current

FLA: Full Load Amps

RLA: Rated Load Amps

System Total Power Input = Chiller Power Input + Air Condenser Power Input

System Total Ampere = Chiller Total Ampere + Air Condenser Total Ampere

For system wire sizing add the chiller total ampere and air condenser total ampere.

Chiller Electrical Data (Screw Compressor)

Model	Chiller Electrical Data (Refrigerant: R134a, MVR2)						
	Per Compressor					Total	
	HP	RLA	FLA	MOC	LRA	KW	FLA
1ATLCS-50	50	69.6	75	79	206	45.1	75
1ATLCS-60	60	79.9	86.1	98	267	52	86.1
1ATLCS-70	70	72.4	76.8	128	290	44.8	76.8
1ATLCS-80	80	104.2	112.2	144	394	72.3	112.2
1ATLCS-90	90	122.5	132.1	155	439	82.4	132.1
1ATLCS-110	110	143.2	153.8	182	520	93.6	153.8
1ATLCS-125	125	162.1	174	196	612	105.3	174
1ATLCS-140	140	183.3	196.9	214	665	119.8	196.9
1ATLCS-180	180	226	152.7	310	465	152.7	244
1ATLCS-210	210	271	290	320	586	177.7	290
2ATLCS-100	50	69.6	75	79	206	90.2	150
2ATLCS-120	60	79.9	86.1	98	267	104	172.2
2ATLCS-140	70	72.4	76.8	128	290	89.6	153.6
2ATLCS-160	80	104.2	112.2	144	394	144.6	224.4
2ATLCS-180	90	122.5	132.1	155	439	164.8	264.2
2ATLCS-220	110	143.2	153.8	182	520	187.2	307.6
2ATLCS-250	125	162.1	174	196	612	210.6	348
2ATLCS-280	140	183.3	196.9	214	665	239.6	393.8
4ATLCS-200	50	69.6	75	79	206	180.4	300
4ATLCS-240	60	79.9	86.1	98	267	208	344.4
4ATLCS-280	70	72.4	76.8	128	290	179.2	307.2
4ATLCS-320	80	104.2	112.2	144	394	289.2	448.8
4ATLCS-360	90	122.5	132.1	155	439	329.6	528.4

System Cable Size	
System Total Ampere (up to)	Cable Size (mm)
20 A	4x2.5
30 A	4x4
40 A	4x6
50 A	4x10
70 A	4x16
90 A	3x25/16
110 A	3x35/16
140 A	3x50/25
170 A	3x70/35
210 A	3x95/50
240 A	3x120/70
280 A	3x150/70
320 A	3x185/95
370 A	3x240/120
420 A	2x(3x95/50)
490 A	2x(3x120/70)
560 A	2x(3x150/70)
640 A	2x(3x185/95)
700 A	2x(3x240/120)

NOTE:

LRA: Locked Rotor Amps

MOC: Maximum Operating Current

FLA: Full Load Amps

RLA: Rated Load Amps

Cable sizes are based on copper conductor at maximum ambient temperature of 40°C and maximum distance of 70 meter.

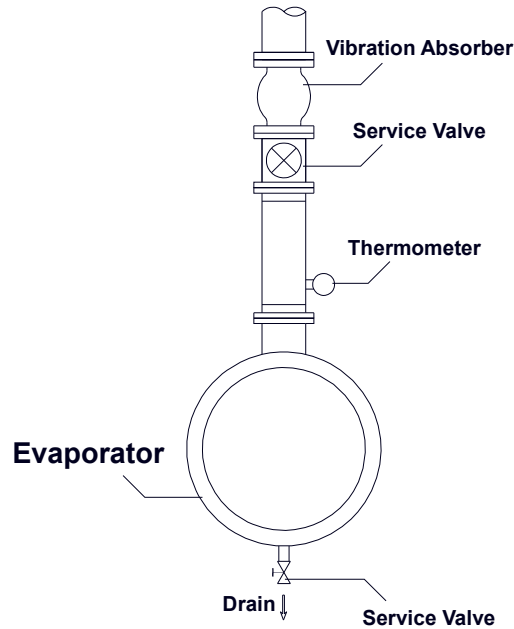
System Total Power Input = Chiller Power Input + Air Condenser Power Input

System Total Ampere = Chiller Total Ampere + Air Condenser Total Ampere

For system wire sizing add the chiller total ampere and air condenser total ampere.

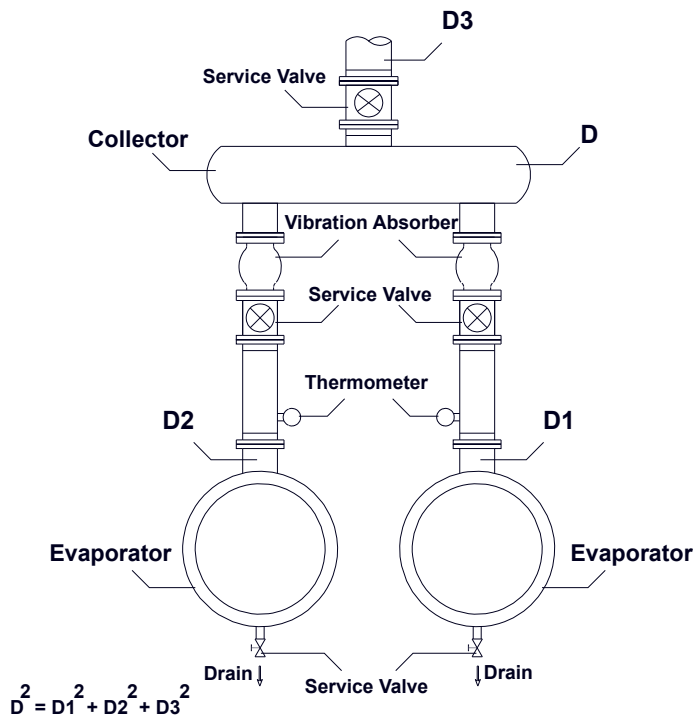
Typical Equipment & Piping Diagram

Schematic Piping Diagram for Inlet & Outlet of Evaporator Chilled Water



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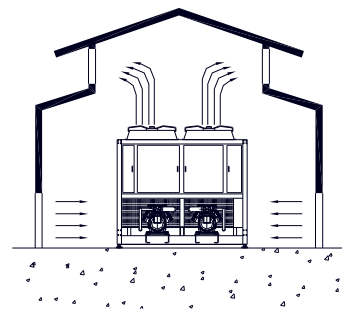
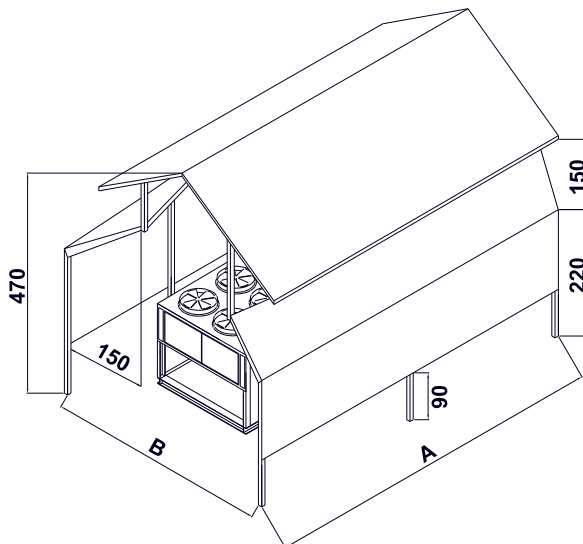
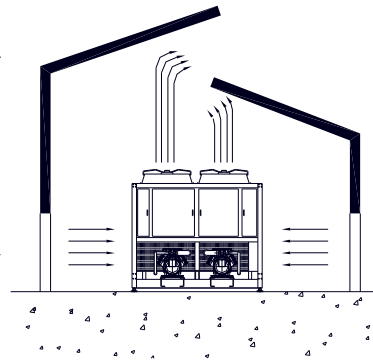
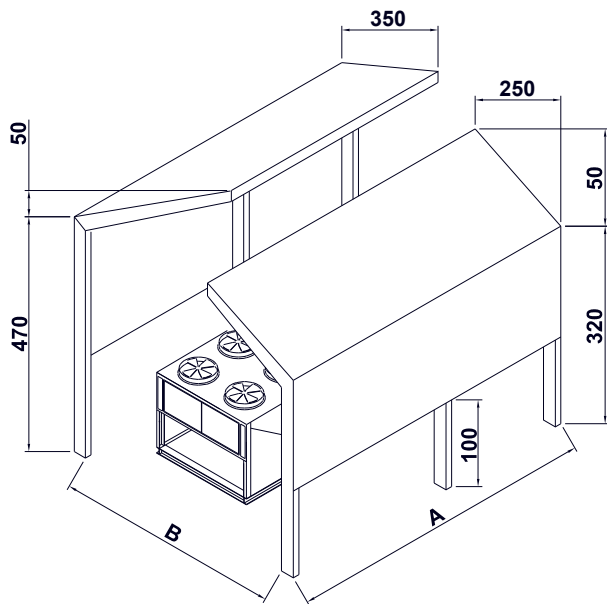
Schematic Piping Diagram for Two Parallel Evaporators



Schematic Drawing of Suggested Shelter

The following points must be observed:

- 1- The unit is to be installed where adequate amount of fresh air is available for circulation over the unit and the least amount of direct exposure and air obstructions are present where necessary a shelter shall be constructed.
- 2- Sufficient free space must be considered for air intake and air discharge of each installed unit.
- 3- Adequate space for servicing must also be available (see Recommended Service Area).

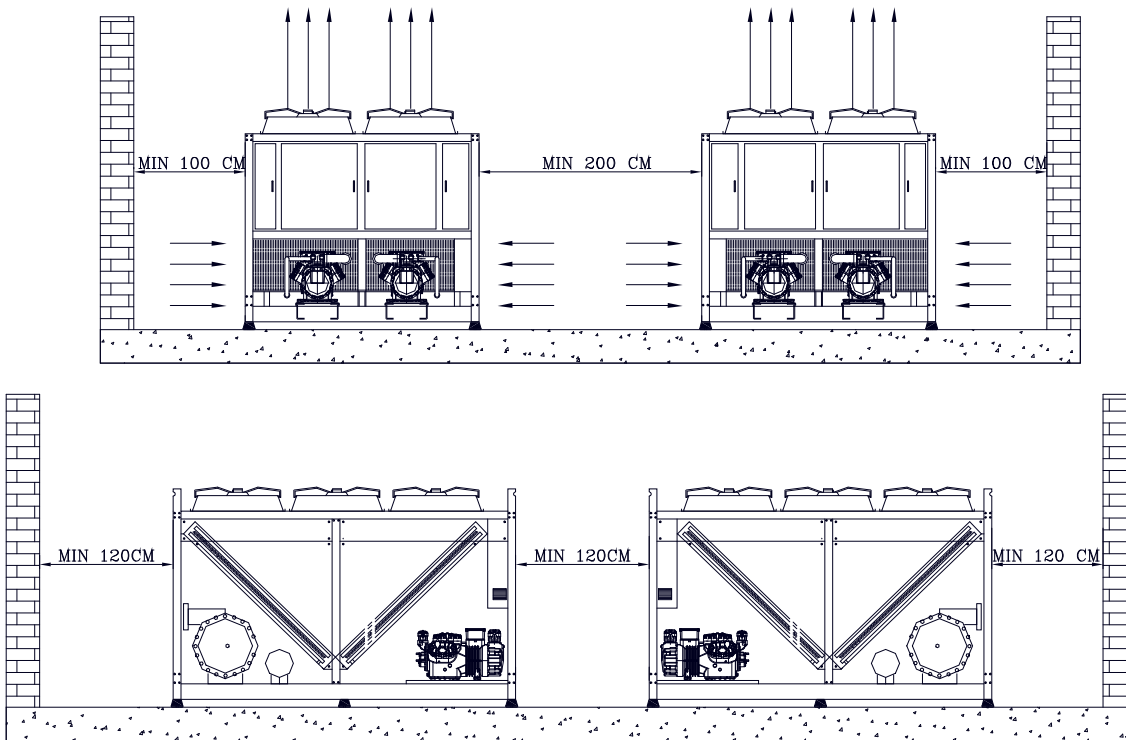


Model	ATAC-075	ATAC-110	ATAC-150	ATAC-225	ATAC-300	ATAC-375	ATAC-450	ATAC-600	ATAC-750	ATAC-900	ATAC-1150
A	215	341	341	413	413	501	501	611	701	701	701
B	320	410	410	410	410	410	410	410	450	450	450

NOTE:

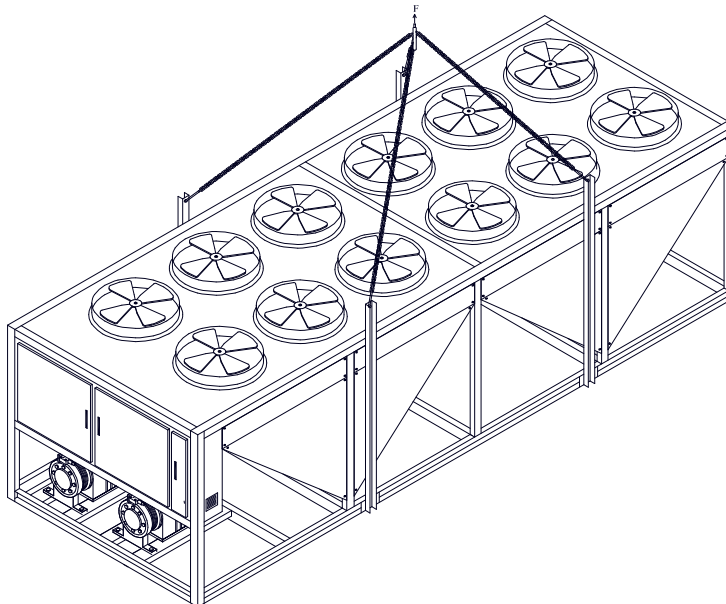
All Dimensions are in cm

Installation



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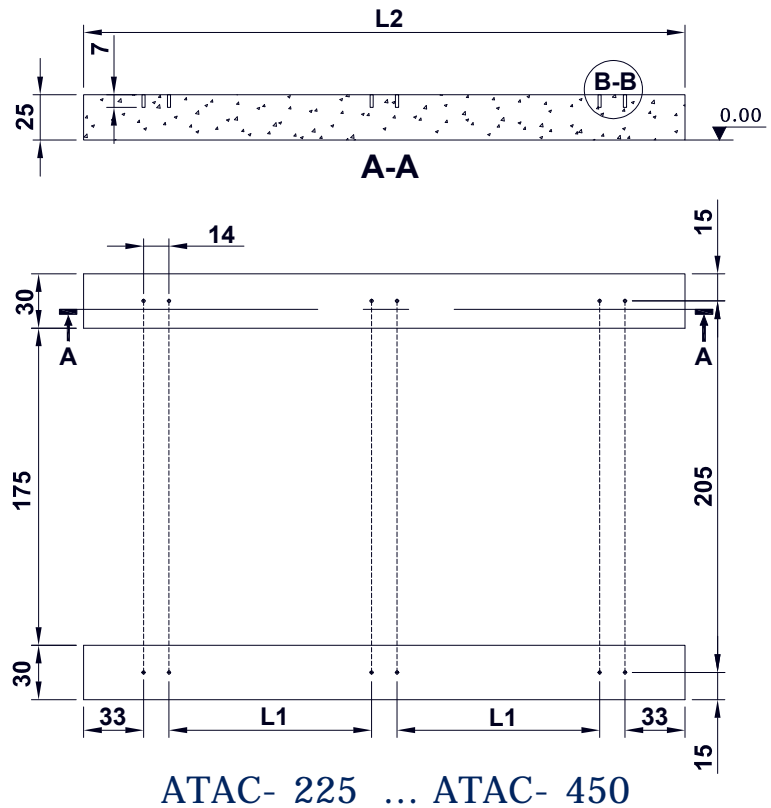
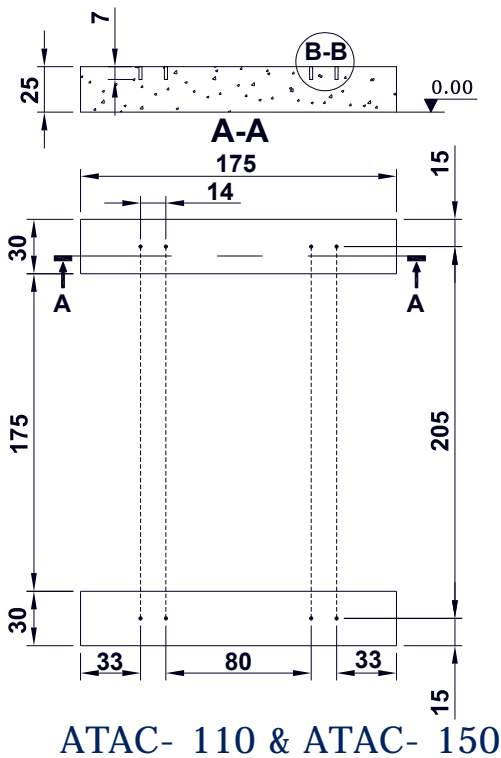
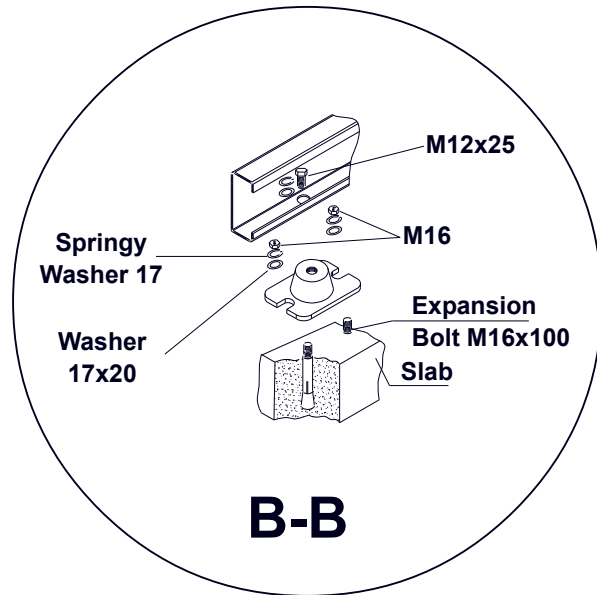
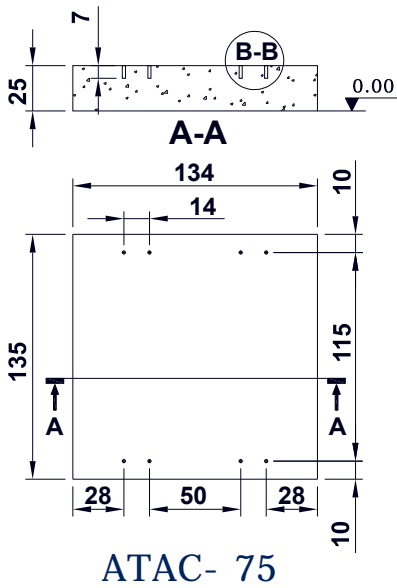
Hoisting Recommendations



NOTES:

The recommended angle between the unit and the hoisting chain must be at least 45 degree.

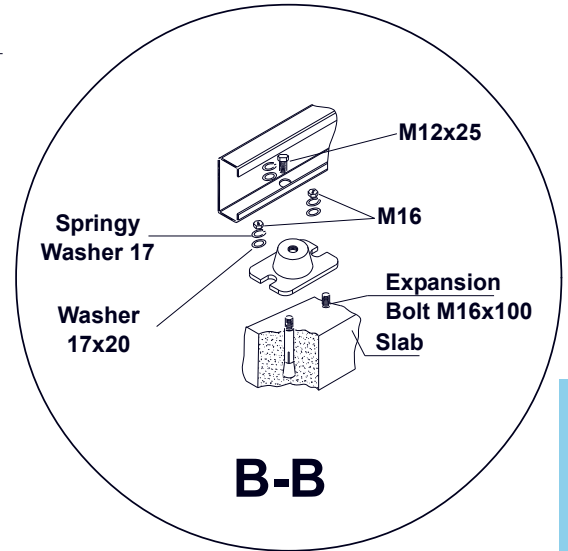
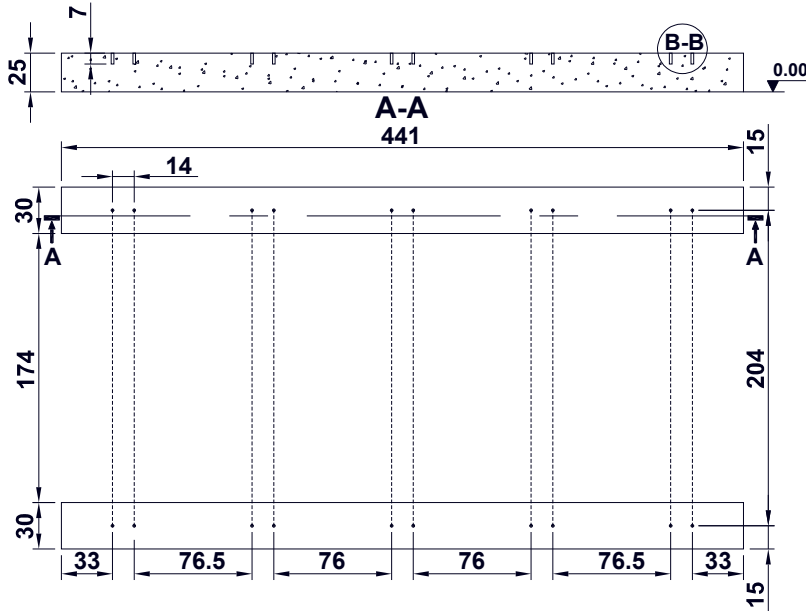
Armored Cement Foundation



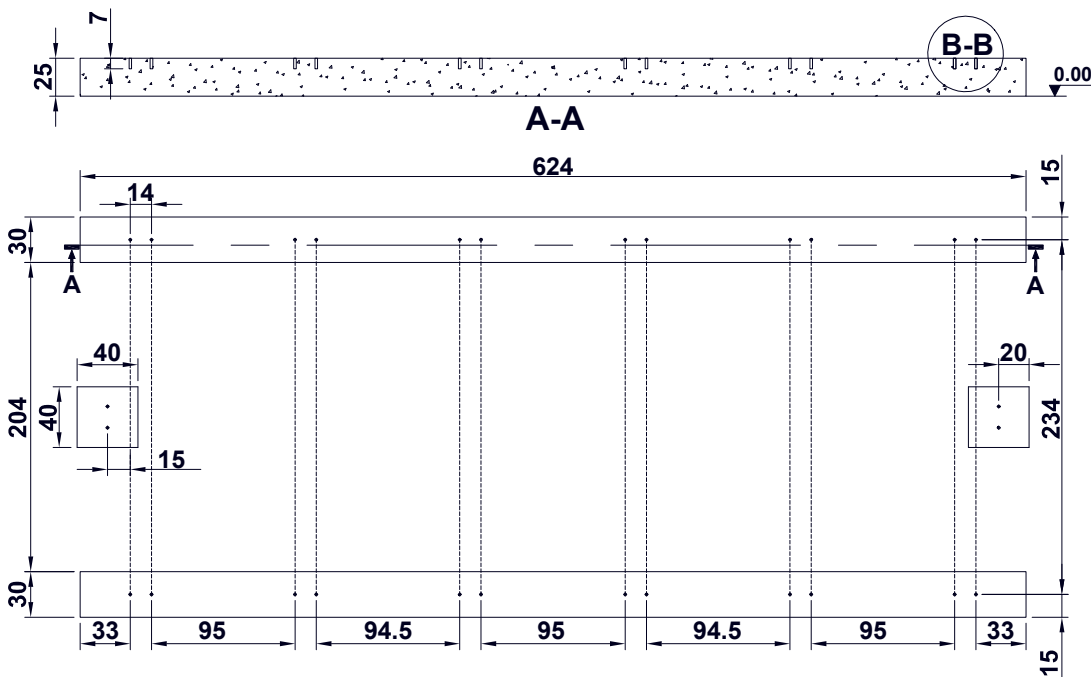
Model	L1	L2
ATAC-225&300	67.5	243
ATAC-375&450	112	332

NOTE:
All dimensions are in cm.

Armored Cement Foundation (Cont.)



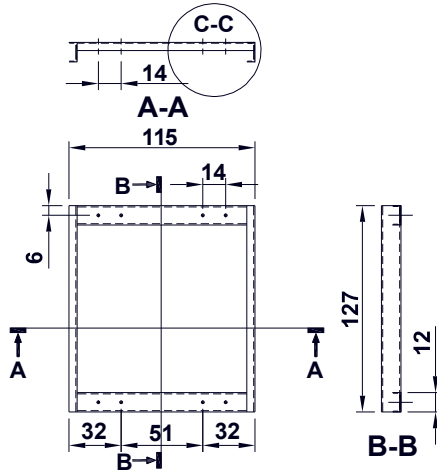
ATAC- 600



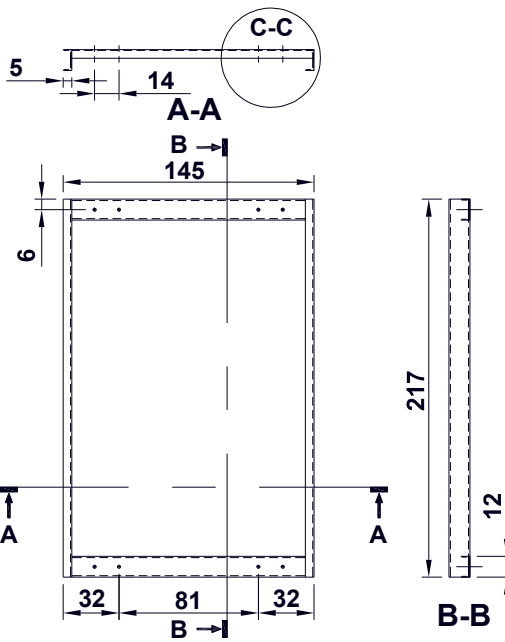
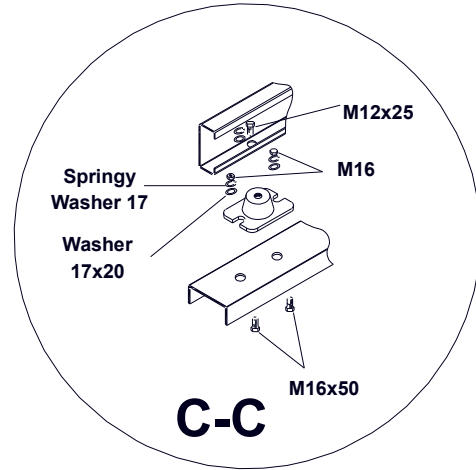
ATAC- 750 ... ATAC- 1150

NOTE:
All dimensions are in cm.

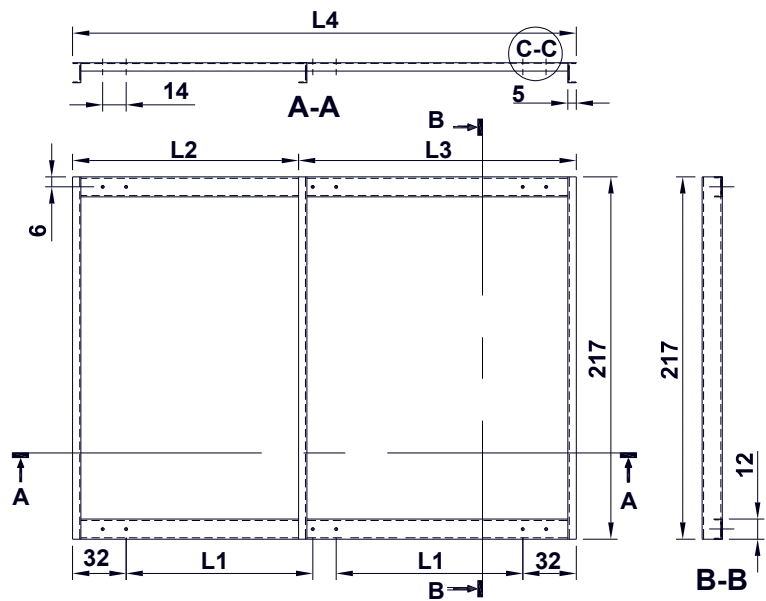
Steel Foundation



ATAC- 75



ATAC- 110 & ATAC- 150



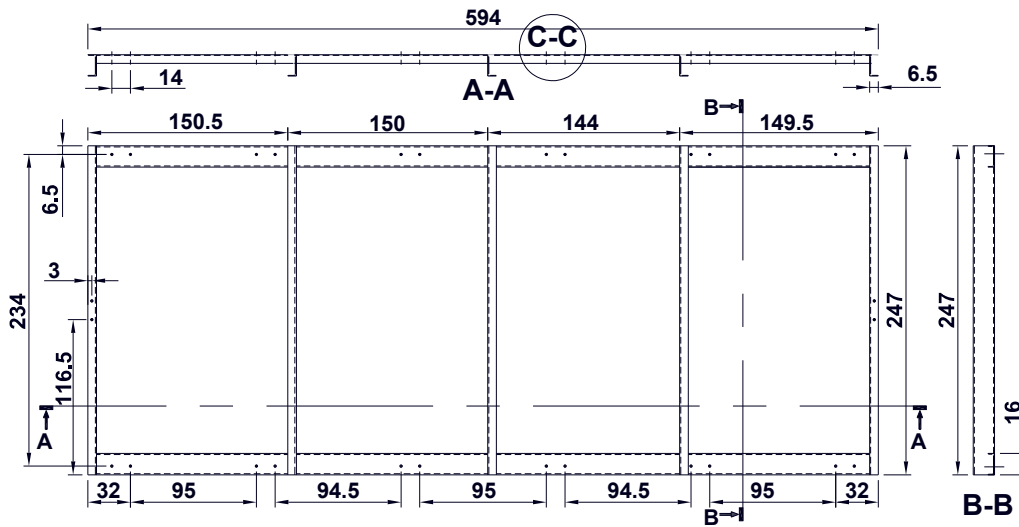
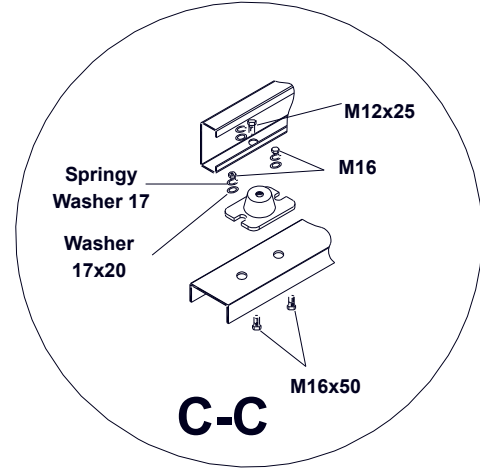
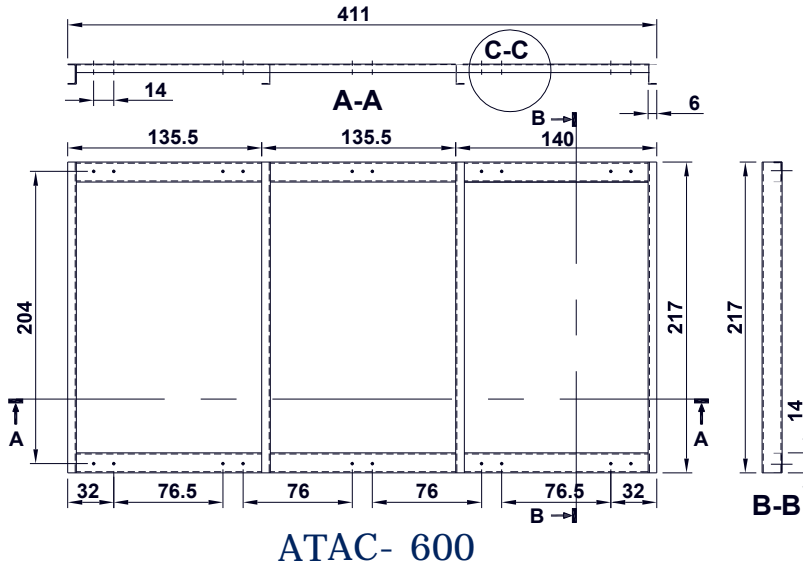
ATAC- 225 ... ATAC- 450

Model	L1	L2	L3	L4
ATAC-225&300	67.5	96	117	213
ATAC-375&450	112	136	166	302

NOTE:

-All dimensions are in cm.

Steel Foundation (cont.)

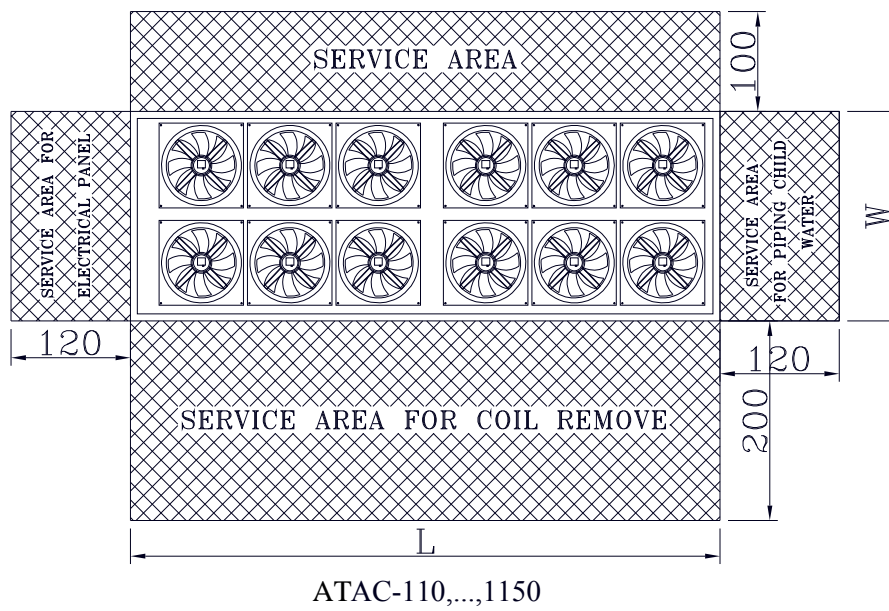
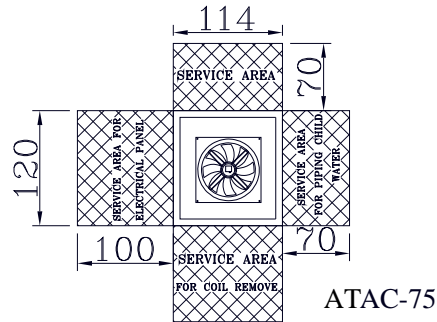


ATAC- 750 ... ATAC- 1150

NOTE:

-All dimensions are in CM

Service Area



Model	ATAC-110	ATAC-150	ATAC-225	ATAC-300	ATAC-375	ATAC-450	ATAC-600	ATAC-750	ATAC-900	ATAC-1150
L	144	144	212	212	301	301	410	593	593	593
W	210	210	210	210	210	210	210	240	240	240

NOTES:

All dimensions are in cm.