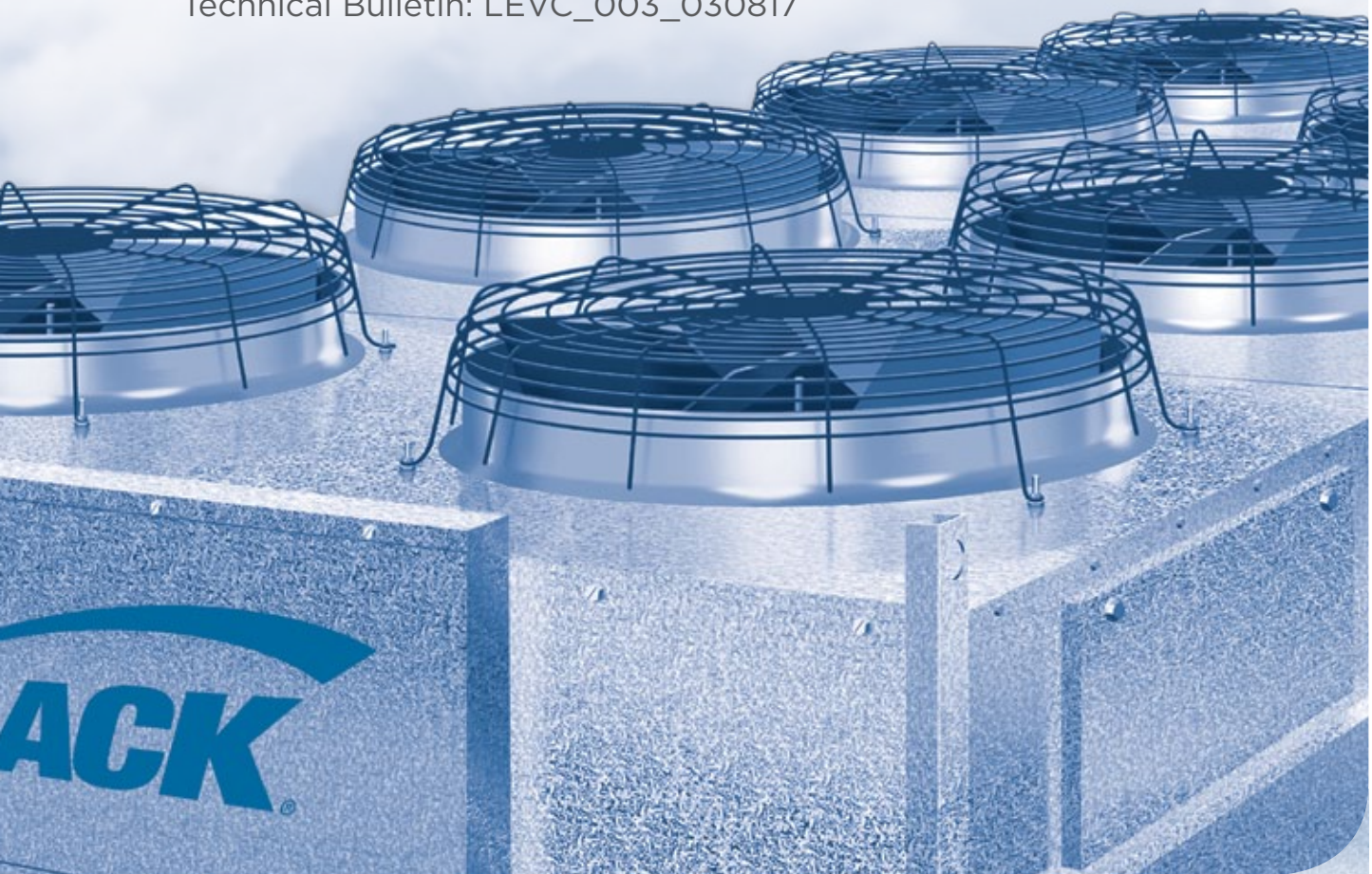




Levitor II

AIR-COOLED CONDENSER
(Available for Fluid Cooler Applications)

Technical Bulletin: LEVC_003_030817



Products that provide lasting solutions.

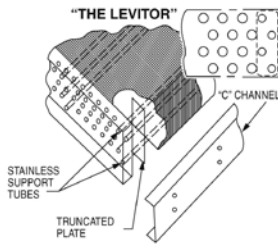
Levitor II Air-Cooled Condenser

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Levitor II Air-Cooled Condenser

Benefits and Features



Rooftop condensers have to operate in some of the toughest conditions imaginable. Temperature extremes result in constant expansion and contraction of refrigerant tubes as fans cycle and loads vary.

The consequences are costly: rapid tube wear results in leaks, system breakdown and loss of costly refrigerant.

The LEVITOR system addresses refrigerant coil wear and leaks due to vibration and thermal stress.

LEVITOR Coil Design Eliminates Refrigerant Tube Wear

Environmental concerns and spiraling cost of refrigerants have led to the development of direct drive remote air-cooled condensers with the LEVITOR coil support system. This innovative design uses dedicated stainless steel tubes and a unique coil support system to isolate refrigerant tubes from the unit. Coil support is transferred from the fins to the stainless tubes and truncated tube plates which ride freely in "C" channels. Tubes expand and contract without interference. The result, contact and friction wear are eliminated.

Quiet by Design

LEVITOR coil design does more than just eliminate tube wear. Sound reduction is an added benefit. Unlike traditional air-cooled condensers, fan and coil vibration are isolated from the cabinet, so it is not transmitted to the unit frame and building supports.

Low Sound Quieter Fan

- The "swept-wing" blade design offers lower noise levels at the same fan speed. For example, the QUIETOR fan blade on a 575-rpm motor will be much quieter (8 dBA) than the old 575-rpm fan.
- Lower noise condensers can translate into savings for your customer by minimizing the need of costly noise barriers.
- Quieter fan not available on 24" models.

Computerized Circuiting

- Our computerized coil circuiting program is designed to minimize the condenser refrigerant charge and maximize sub-cooling. Every condenser will be custom circuiting to precisely meet your application needs.

Modular Design

- Arranged for vertical or horizontal air discharge. Multi-fan sections compartmented to allow individual fan cycling while preventing off-fan "windmilling". Large clean-out access doors standard.

Corrosion Resistant

- All models employ mill galvanized steel fan sections and coil side baffles. Legs are heavy gauge mill galvanized steel.

High Efficiency Coil

- Copper tubes are mechanically expanded into corrugated full collared aluminum fins spaced 8, 10, or 12 per inch. Coils are helium leak and pressure tested with 400 psig dry air, shipped pressurized with dry nitrogen.
- Optional fin materials are copper or polyester coated aluminum.
- Optional electrofin or heresite coil coatings.
- Multi-circuiting available.

Direct Driven Propeller Fans

- Quiet multi-bladed propeller fans provide uniform air distribution through the coil. Venturi fan orifices optimize efficiency.

Weather Resistant Fan Motors

- Outdoor condenser motors designed with ball bearings inherent overheat protection in each phase; shaft slingers; enclosure, hardware, and lubrication for all weather conditions. Each motor lead is wired to terminals in an electrical enclosure.
- Inverter duty suitable motors are standard for 230/3 and 460/3.

Versatile Fan Cycling Control Methods

- Temperature fan cycling.
- Pressure fan cycling.
- Temperature and pressure fan cycling.
- Electronic relay boards.
- Variable speed header end fans.



Levitor II Air-Cooled Condenser

System Selection

THR Total Heat of Rejection

- Condenser total heat of rejection (BTU/h) is the sum of the evaporator refrigeration effect and the heat of compression which varies with compressor type and operating conditions.

THR Calculation Method

- THR = Open Reciprocating Compressor Capacity (BTU/h) + (2545 x BHP)
- THR = Suction Gas Cooled Hermetic Reciprocating Compressor Capacity (BTU/h) + (3413 x kW)

THR Estimated Method

- THR may be estimated by multiplying the rated compressor BTU/h capacity by the compressor operating condition factor shown in Table 1 or 2. Multiply result by altitude factor when applicable.

TABLE 2							
EVAPORATOR TEMP (°F)	OPEN COMPRESSOR						
	CONDENSING TEMPERATURE (°F)						
	90	100	110	120	130	140	140
-30	1.37	1.42	1.47	*	*	*	*
-20	1.33	1.37	1.42	1.47	*	*	*
-10	1.28	1.32	1.37	1.42	1.47	*	*
0	1.24	1.28	1.32	1.37	1.41	1.47	1.47
10	1.21	1.24	1.28	1.32	1.36	1.42	1.42
20	1.17	1.20	1.24	1.28	1.32	1.37	1.37
30	1.14	1.17	1.20	1.24	1.27	1.32	1.32
40	1.12	1.15	1.17	1.20	1.23	1.28	1.28
50	1.09	1.12	1.14	1.17	1.20	1.24	1.24

* Beyond the normal limits for single-stage compressor application.

TABLE 1							
EVAPORATOR TEMP (°F)	HERMETIC COMPRESSOR						
	CONDENSING TEMPERATURE (°F)						
	90	100	110	120	130	140	140
-40	1.66	1.73	1.80	2.00	*	*	*
-30	1.57	1.62	1.68	1.80	*	*	*
-20	1.49	1.53	1.58	1.65	*	*	*
-10	1.42	1.46	1.50	1.57	1.64	*	*
0	1.36	1.40	1.44	1.50	1.56	1.62	1.62
5	1.33	1.37	1.41	1.46	1.52	1.59	1.59
10	1.31	1.34	1.38	1.43	1.49	1.55	1.55
15	1.28	1.32	1.35	1.40	1.46	1.52	1.52
20	1.26	1.29	1.33	1.37	1.43	1.49	1.49
25	1.24	1.27	1.31	1.35	1.40	1.45	1.45
30	1.22	1.25	1.28	1.32	1.37	1.42	1.42
40	1.18	1.21	1.24	1.27	1.31	1.35	1.35
50	1.14	1.17	1.20	1.23	1.26	1.29	1.29

* Beyond the normal limits for single-stage compressor application.

TABLE 3			
ALTITUDE			
FEET	FACTOR	FEET	FACTOR
1,000	1.02	5,000	1.12
2,000	1.05	6,000	1.15
3,000	1.07	7,000	1.17
4,000	1.10	8,000	1.24

Multi-Circuit Selection

- Condenser coils may be divided into several individual refrigeration circuits or systems; each sized for a specific refrigerant, THR capacity and TD. Systems are tagged for identification from left to right; facing the connection end. Avoid 3 row condensers. Add excess circuits to low TD sections next to high TD sections. Add excess circuits to outboard sections. Temperature fan cycling is recommended with multi-circuited condensers.

SAMPLE CALCULATION: 95°F AMBIENT-SUCTION COOLED SEMI-HERMETIC RECIPROCATING COMPRESSORS

COMP NOM HP	DESIGN TD REF	SAT SUCT °F	SAT COND °F	COMPRESSOR RATING			BASED ON R-404A AT 15°F TD			CAP PER CIRCUIT	SYSTEM CIRCUIT REQ'D	# CIR	SYSTEM NUMBER L TO R	ACTUAL TD °F				
				NET BTU/h	MOTOR KW	TOTAL BTU	REF FACTOR	TD FACTOR	SELECT THR									
6	134a	15	+20	110	40090	4.3	14676	54,766 ÷	0.97	x	1.0	=	56460	13450	4.2	4	1	15.7
9	404A	10	-20	105	45900	8.1	27645	73,545 ÷	1.00	x	1.5	=	110318	13450	8.2	10	2	8.2
10	404A	10	-20	105	50640	9.6	32765	83,405 ÷	1.00	x	1.5	=	125108	13450	9.3	10	3	9.3
12	22	15	+20	110	104000	9.7	33106	137,106 ÷	1.02	x	1.0	=	134418	13450	10.0	10	4	15.0

Selection

- LAVA-14410 Rated at THR of 457.3 MBH with R-404A at 15°F TD. LAVA-14410 Unit lists 34 Circuits.
- Sample Calculation: THR Req'd./Circuit = 426304 ÷ 34 = 12538. LAVA-14410 = 457300 ÷ 34 = 13450 (Available THR/Circuit).
- Circuits Req'd. = Select THR ÷ THR/Circuit. Example: 56460 ÷ 13450 = 4.2 Circuits.
- Assign Number of Circuits System and System Number Left to Right. Actual TD = (Circuits Req'd ÷ Assign Circuits) x Design TD. Example: 4.2 ÷ 4 x 15 = 15.7.

UNIT THR REQ'D 426304 34

REF FACTOR R-404A Baseline	REF FACTOR R-407A Baseline	TD FACTOR
R-404A - 1.00	R-407A - 1.00	10°F - 1.50
R-22 - 1.02	R-407C - 0.98	15°F - 1.00
R-134a - 0.97	R-448A/R-449A - 1.00	20°F - 0.75
R-410A - 1.02		25°F - 0.60

Levitor II Air-Cooled Condenser

Levitor Application

Locate Condensers no closer than their width from walls or other condensers. Avoid locations near exhaust fans, plumbing vents, flues or chimneys.

Parallel Condensers should be the same models resulting in the same refrigerant side pressure drops. Compressor discharge lines should have equal pressure drops to each condenser.

Summer Charge based on 25% of condenser volume with 90°F liquid. Multiply by 1.1 for R-407A.

Winter Charge based on 90% of condenser volume with -20°F liquid. Multiply by 1.08 for R-407A.

Receiver Capacity should be sized to store condenser summer charge, plus the condenser low ambient allowance, plus the evaporator charge, plus an allowance for piping and heat reclaim coil charges.

Compressor Discharge lines should be sized to minimize pressure drops and maintain oil return gas velocities. Each connection should be looped to the top of the condenser.

Gravity Liquid Drain Lines should drop from each outlet as low as possible before headering or running horizontally. Pitch downhill to receiver.

Off-Line Coil Sections will have refrigerant pressures corresponding to the ambient. Check valves or isolating valves should be installed in the liquid line drains to prevent refrigerant migration and receiver pressure loss.

See Installation and Operating instructions for piping, holdback and fan cycling details.

Levitor II Air-Cooled Condenser

Model Key

L	A	V	A	1	2	4	10	M
---	---	---	---	---	---	---	----	---

UNIT TYPE:

L = Levitor Condenser

TUBE DIAMETER:

A = 3/8 O.D.
E = 1/2 O.D.

FAN DISCHARGE DIRECTIONS:

H = Horizontal
V = Vertical
X = Hinged Vertical
E = Hinged Horizontal

FAN / MOTOR COMBINATION:

A = 1 HP 850 RPM 30"
B = 1/2 HP 1140 RPM 24"
C = 1-1/2 HP 850 RPM 30"
E = 1/2 HP 575 RPM 30"
F = 1-1/2 HP 1140 RPM 30"

FANS WIDE: 1, 2

VOLTAGE:

A = 230/1/60 (24" Fan B Model Only)
K = 208-230/3/60
M = 460/3/60
P = 575/3/60
U = 380/3/50 (Capacity Derate of Around 10%)

FIN SPACING:

08 = 8 FPI
10 = 10 FPI
12 = 12 FPI

ROWS DEEP:

2
3
4

FANS IN LINE:

1
2
3
4
5
6
7 = 24" Fan Only (B Motor)

Levitor II Air-Cooled Condenser

LAVE Performance Data

ONE FAN WIDE														
MODEL	TOTAL HEAT OF REJECTION (MBH)								AIR FLOW (CFM)	CEC TITLE 24 COMPLIANT	CONDENSER CHARGE R-404A (LBS)		EST SOUND 10' (dBA)	SHIP WEIGHT (LBS)
	R-404A, R-507A				R-407A, R-448A / R-449A						SUMMER	WINTER		
	TEMPERATURE DIFFERENCE				TEMPERATURE DIFFERENCE									
	10°F	15°F	20°F	25°F	10°F	15°F	20°F	25°F						
LAVE11208	35.2	52.8	70.3	87.9	34.4	51.6	68.8	86.0	6480	Compliant	4	17	52	437
LAVE11210	41.3	61.9	82.5	103.1	40.5	60.7	81.0	101.2	6420	Compliant	4	17	52	439
LAVE11212	45.9	68.9	91.9	114.8	45.7	68.6	91.4	114.3	6360	No	4	17	52	444
LAVE11308	47.1	70.6	94.1	117.7	46.4	69.6	92.8	116.0	6300	Compliant	6	25	52	466
LAVE11310	53.0	79.4	105.9	132.4	53.0	79.5	106.0	132.5	6200	Compliant	6	25	52	469
LAVE11312	57.1	85.6	114.2	142.7	58.3	87.5	116.6	145.8	6100	No	6	25	52	478
LAVE11408	55.9	83.9	111.9	139.8	56.6	84.8	113.1	141.4	6105	Compliant	8	33	52	495
LAVE11410	61.1	91.7	122.2	152.8	63.5	95.3	127.1	158.8	5975	Compliant	8	33	52	499
LAVE11412	64.7	97.1	129.5	161.8	68.3	102.5	136.6	170.8	5835	No	8	33	52	508
LAVE12208	70.3	105.5	140.7	175.9	68.8	103.2	137.6	172.0	12960	Compliant	9	32	55	718
LAVE12210	82.5	123.8	165.0	206.3	81.0	121.5	162.0	202.5	12840	Compliant	9	32	55	721
LAVE12212	91.9	137.8	183.7	229.6	91.4	137.1	182.9	228.6	12720	No	9	32	55	729
LAVE12308	94.1	141.2	188.3	235.4	92.8	139.2	185.6	232.1	12600	Compliant	13	48	55	773
LAVE12310	105.9	158.9	211.8	264.8	106.0	159.0	212.1	265.1	12400	Compliant	13	48	55	779
LAVE12312	114.2	171.2	228.3	285.4	116.6	175.0	233.3	291.6	12200	No	13	48	55	792
LAVE12408	111.9	167.8	223.8	279.7	113.1	169.7	226.3	282.8	12210	Compliant	17	64	55	830
LAVE12410	122.2	183.3	244.5	305.6	127.1	190.6	254.1	317.6	11950	Compliant	17	64	55	838
LAVE12412	129.5	194.2	258.9	323.7	136.6	205.0	273.3	341.6	11670	No	17	64	55	855
LAVE13210	123.8	185.6	247.5	309.4	121.5	182.2	242.9	303.7	19260	Compliant	13	48	57	1041
LAVE13212	137.8	206.7	275.6	344.5	137.1	205.7	274.3	342.9	19080	No	13	48	57	1060
LAVE13308	141.2	211.8	282.4	353.0	139.2	208.8	278.5	348.1	18900	Compliant	18	72	57	1126
LAVE13310	158.9	238.3	317.8	397.2	159.0	238.6	318.1	397.6	18600	Compliant	18	72	57	1135
LAVE13312	171.2	256.9	342.5	428.1	175.0	262.4	349.9	437.4	18300	No	18	72	57	1153
LAVE13408	167.8	251.7	335.6	419.5	169.7	254.5	339.4	424.2	18315	Compliant	24	96	57	1210
LAVE13410	183.3	275.0	366.7	458.4	190.6	285.9	381.2	476.4	17925	Compliant	24	96	57	1223
LAVE13412	194.2	291.3	388.4	485.5	205.0	307.4	409.9	512.4	17505	No	24	96	57	1247
LAVE14308	188.3	282.4	376.6	470.7	185.6	278.5	371.3	464.1	25200	Compliant	24	96	58	1437
LAVE14310	211.8	317.8	423.7	529.6	212.1	318.1	424.1	530.1	24800	Compliant	24	96	58	1449
LAVE14312	228.3	342.5	456.6	570.8	233.3	349.9	466.6	583.2	24400	No	24	96	58	1474
LAVE14408	223.8	335.6	447.5	559.4	226.3	339.4	452.5	565.7	24420	Compliant	32	127	58	1550
LAVE14410	244.5	366.7	488.9	611.1	254.1	381.2	508.2	635.3	23900	Compliant	32	127	58	1566
LAVE14412	258.9	388.4	517.9	647.3	273.3	409.9	546.6	683.2	23340	No	32	127	58	1599
LAVE15308	235.4	353.0	470.7	588.4	232.1	348.1	464.1	580.1	31500	Compliant	32	119	59	2020
LAVE15310	264.8	397.2	529.6	662.0	265.1	397.6	530.1	662.7	31000	Compliant	32	119	59	2035
LAVE15312	285.4	428.1	570.8	713.5	291.6	437.4	583.2	729.0	30500	No	32	119	59	2066
LAVE15408	279.7	419.5	559.4	699.2	282.8	424.2	565.7	707.1	30525	Compliant	41	159	59	2160
LAVE15410	305.6	458.4	611.1	763.9	317.6	476.4	635.3	794.1	29875	Compliant	41	159	59	2181
LAVE15412	323.7	485.5	647.3	809.2	341.6	512.4	683.2	854.0	29175	No	41	159	59	2222
LEVE16308	282.4	423.6	564.9	706.1	278.5	417.7	556.9	696.2	37800	Compliant	65	266	60	2554
LEVE16310	317.8	476.7	635.5	794.4	318.1	477.1	636.2	795.2	37200	Compliant	65	266	60	2573
LEVE16312	342.5	513.7	684.9	856.2	349.9	524.9	699.9	874.8	36600	No	65	266	60	2610
LEVE16408	335.6	503.5	671.3	839.1	339.4	509.1	678.8	848.5	36630	Compliant	84	354	60	2784
LEVE16410	366.7	550.0	733.4	916.7	381.2	571.7	762.3	952.9	35850	Compliant	84	354	60	2808
LEVE16412	388.4	582.6	776.8	971.0	409.9	614.9	819.8	1024.8	35010	No	84	354	60	2858

NOTE: Capacity ratings are based on midpoint condensing temperature, 95°F entering air temperature and 0°F sub-cooling. The temperature difference is between the midpoint condensing temp. and the entering air temp. to the condenser.

See Corrections Factor Table on page 6. See Electrical Motor AMP Data Table on page 13.

Levitor II Air-Cooled Condenser

LAVE Performance Data

TWO FANS WIDE														
MODEL	TOTAL HEAT OF REJECTION (MBH)								AIR FLOW (CFM)	CEC TITLE 24 COMPLIANT	CONDENSER CHARGE R-404A (LBS)		EST SOUND 10' (dBA)	SHIP WEIGHT (LBS)
	R-404A, R-507A				R-407A, R-448A / R-449A						SUMMER	WINTER		
	TEMPERATURE DIFFERENCE				TEMPERATURE DIFFERENCE									
	10°F	15°F	20°F	25°F	10°F	15°F	20°F	25°F						
LAVE22208	140.7	211.0	281.4	351.7	137.6	206.4	275.2	344.0	25920	Compliant	18	64	58	1311
LAVE22210	165.0	247.5	330.0	412.5	162.0	242.9	323.9	404.9	25680	Compliant	18	64	58	1320
LAVE22212	183.7	275.6	367.4	459.3	182.9	274.3	365.7	457.2	25440	No	18	64	58	1336
LAVE22308	188.3	282.4	376.6	470.7	185.6	278.5	371.3	464.1	25200	Compliant	26	96	58	1425
LAVE22310	211.8	317.8	423.7	529.6	212.1	318.1	424.1	530.1	24800	Compliant	26	96	58	1437
LAVE22312	228.3	342.5	456.6	570.8	233.3	349.9	466.6	583.2	24400	No	26	96	58	1462
LAVE22408	223.8	335.6	447.5	559.4	226.3	339.4	452.5	565.7	24420	Compliant	34	128	58	1539
LAVE22410	244.5	366.7	488.9	611.1	254.1	381.2	508.2	635.3	23900	Compliant	34	128	58	1555
LAVE22412	258.9	388.4	517.9	647.3	273.3	409.9	546.6	683.2	23340	No	34	128	58	1588
LAVE23210	247.5	371.3	495.0	618.8	242.9	364.4	485.9	607.4	38520	Compliant	26	96	60	1875
LAVE23212	275.6	413.4	551.1	688.9	274.3	411.4	548.6	685.7	38160	No	26	96	60	1912
LAVE23308	282.4	423.6	564.9	706.1	278.5	417.7	556.9	696.2	37800	Compliant	36	144	60	2044
LAVE23310	317.8	476.7	635.5	794.4	318.1	477.1	636.2	795.2	37200	Compliant	36	144	60	2063
LAVE23312	342.5	513.7	684.9	856.2	349.9	524.9	699.9	874.8	36600	No	36	144	60	2100
LAVE23408	335.6	503.5	671.3	839.1	339.4	509.1	678.8	848.5	36630	Compliant	48	192	60	2214
LAVE23410	366.7	550.0	733.4	916.7	381.2	571.7	762.3	952.9	35850	Compliant	48	192	60	2238
LAVE23412	388.4	582.6	776.8	971.0	409.9	614.9	819.8	1024.8	35010	No	48	192	60	2287
LAVE24308	376.6	564.9	753.1	941.4	371.3	556.9	742.6	928.2	50400	Compliant	48	192	61	2526
LAVE24310	423.7	635.5	847.4	1059.2	424.1	636.2	848.2	1060.3	49600	Compliant	48	192	61	2651
LAVE24312	456.6	684.9	913.3	1141.6	466.6	699.9	933.1	1166.4	48800	No	48	192	61	2700
LAVE24408	447.5	671.3	895.0	1118.8	452.5	678.8	905.1	1131.3	48840	Compliant	64	254	61	2851
LAVE24410	488.9	733.4	977.8	1222.3	508.2	762.3	1016.4	1270.5	47800	Compliant	64	254	61	2884
LAVE24412	517.9	776.8	1035.7	1294.6	546.6	819.8	1093.1	1366.4	46680	No	64	254	61	2950
LAVE25308	470.7	706.1	941.4	1176.8	464.1	696.2	928.2	1160.3	63000	Compliant	64	238	62	3725
LAVE25310	529.6	794.4	1059.2	1324.1	530.1	795.2	1060.3	1325.4	62000	Compliant	64	238	62	3755
LAVE25312	570.8	856.2	1141.6	1427.0	583.2	874.8	1166.4	1458.0	61000	No	64	238	62	3817
LAVE25408	559.4	839.1	1118.8	1398.5	565.7	848.5	1131.3	1414.2	61050	Compliant	82	318	62	4005
LAVE25410	611.1	916.7	1222.3	1527.9	635.3	952.9	1270.5	1588.2	59750	Compliant	82	318	62	4046
LAVE25412	647.3	971.0	1294.6	1618.3	683.2	1024.8	1366.4	1708.0	58350	No	82	318	62	4129
LEVE26308	564.9	847.3	1129.7	1412.1	556.9	835.4	1113.9	1392.3	75600	Compliant	130	532	63	4759
LEVE26310	635.5	953.3	1271.1	1588.9	636.2	954.3	1272.3	1590.4	74400	Compliant	130	532	63	4796
LEVE26312	684.9	1027.4	1369.9	1712.4	699.9	1049.8	1399.7	1749.6	73200	No	130	532	63	4870
LEVE26408	671.3	1006.9	1342.5	1678.2	678.8	1018.2	1357.6	1697.0	73260	Compliant	168	708	63	5218
LEVE26410	733.4	1100.1	1466.7	1833.4	762.3	1143.5	1524.6	1905.8	71700	Compliant	168	708	63	5268
LEVE26412	776.8	1165.2	1553.6	1942.0	819.8	1229.8	1639.7	2049.6	70020	No	168	708	63	5366

CORRECTION FACTORS TABLE

REFRIGERANTS	MULTIPLY R-404A BY CAPACITY FACTOR	CHARGE CORRECTION FACTOR	
		SUMMER	WINTER
R-404A	1.00	1.00	1.00
R-134a	0.97	1.17	1.11
R-410A	1.02	1.02	1.03
R-22	1.02	1.14	1.09
R-407A	See R-407A Chart	1.10	1.08
R-407C	0.98 x R-407A	1.09	1.07
R-448A / R-449A	See R-448A / R-449A Chart	1.06	1.04

NOTE: Capacity ratings are based on midpoint condensing temperature, 95°F entering air temperature and 0°F sub-cooling. The temperature difference is between the midpoint condensing temp. and the entering air temp. to the condenser.

For units using 380/3/50, multiply capacity by 0.90.

See Electrical Motor AMP Data Tables on page 13.

Levitor II Air-Cooled Condenser

LAVA Performance Data

ONE FAN WIDE														
MODEL	TOTAL HEAT OF REJECTION (MBH)								AIR FLOW (CFM)	CEC TITLE 24 COMPLIANT	CONDENSER CHARGE R-404A (LBS)		EST SOUND 10' (dBA)	SHIP WEIGHT (LBS)
	R-404A, R-507A				R-407A, R-448A / R-449A						SUMMER	WINTER		
	TEMPERATURE DIFFERENCE				TEMPERATURE DIFFERENCE									
	10°F	15°F	20°F	25°F	10°F	15°F	20°F	25°F						
LAVA11208	41.9	62.8	83.8	104.7	40.3	60.5	80.7	100.8	9260	No	4	17	63	437
LAVA11210	48.8	73.2	97.6	122.0	47.3	71.0	94.6	118.3	9151	No	4	17	63	439
LAVA11212	54.3	81.5	108.7	135.8	53.4	80.1	106.8	133.5	9040	No	4	17	63	444
LAVA11308	58.4	87.6	116.9	146.1	56.4	84.5	112.7	140.9	8933	No	6	25	63	466
LAVA11310	65.4	98.1	130.8	163.5	65.0	97.5	130.0	162.4	8760	Compliant	6	25	63	469
LAVA11312	71.9	107.9	143.9	179.8	72.3	108.5	144.6	180.8	8574	No	6	25	63	478
LAVA11408	69.6	104.5	139.3	174.1	68.8	103.1	137.5	171.9	8582	Compliant	8	33	63	495
LAVA11410	76.2	114.3	152.4	190.5	77.4	116.2	154.9	193.6	8314	Compliant	8	33	63	499
LAVA11412	81.2	121.7	162.3	202.9	83.8	125.8	167.7	209.6	8025	No	8	33	63	508
LAVA12208	83.8	125.6	167.5	209.4	80.7	121.0	161.3	201.7	18520	No	9	32	66	718
LAVA12210	97.6	146.4	195.1	243.9	94.6	141.9	189.2	236.5	18302	No	9	32	66	721
LAVA12212	108.7	163.0	217.3	271.7	106.8	160.2	213.7	267.1	18080	No	9	32	66	729
LAVA12308	116.9	175.3	233.7	292.2	112.7	169.1	225.5	281.8	17866	No	13	48	66	773
LAVA12310	130.8	196.2	261.6	327.0	130.0	194.9	259.9	324.9	17520	Compliant	13	48	66	779
LAVA12312	143.9	215.8	287.7	359.6	144.6	217.0	289.3	361.6	17148	No	13	48	66	792
LAVA12408	139.3	208.9	278.5	348.2	137.5	206.3	275.0	343.8	17164	Compliant	17	64	66	830
LAVA12410	152.4	228.7	304.9	381.1	154.9	232.3	309.8	387.2	16628	Compliant	17	64	66	838
LAVA12412	162.3	243.5	324.6	405.8	167.7	251.5	335.3	419.2	16050	No	17	64	66	855
LAVA13210	146.4	219.5	292.7	365.9	141.9	212.9	283.8	354.8	27453	No	13	48	68	1041
LAVA13212	163.0	244.5	326.0	407.5	160.2	240.4	320.5	400.6	27120	No	13	48	68	1060
LAVA13308	175.3	262.9	350.6	438.2	169.1	253.6	338.2	422.7	26799	No	18	72	68	1126
LAVA13310	196.2	294.3	392.4	490.5	194.9	292.4	389.9	487.3	26280	Compliant	18	72	68	1135
LAVA13312	215.8	323.7	431.6	539.4	217.0	325.5	433.9	542.4	25722	No	18	72	68	1153
LAVA13408	208.9	313.4	417.8	522.3	206.3	309.4	412.5	515.6	25746	Compliant	24	96	68	1210
LAVA13410	228.7	343.0	457.3	571.6	232.3	348.5	464.6	580.8	24942	Compliant	24	96	68	1223
LAVA13412	243.5	365.2	486.9	608.7	251.5	377.3	503.0	628.8	24075	No	24	96	68	1247
LAVA14308	233.7	350.6	467.4	584.3	225.5	338.2	450.9	563.7	35732	No	24	96	69	1437
LAVA14310	261.6	392.4	523.2	654.0	259.9	389.9	519.8	649.8	35040	Compliant	24	96	69	1449
LAVA14312	287.7	431.6	575.4	719.3	289.3	433.9	578.6	723.2	34296	No	24	96	69	1474
LAVA14408	278.5	417.8	557.1	696.3	275.0	412.5	550.0	687.5	34328	Compliant	32	127	69	1550
LAVA14410	304.9	457.3	609.7	762.2	309.8	464.6	619.5	774.4	33256	Compliant	32	127	69	1566
LAVA14412	324.6	486.9	649.2	811.6	335.3	503.0	670.7	838.4	32100	No	32	127	69	1599
LAVA15308	292.2	438.2	584.3	730.4	281.8	422.7	563.7	704.6	44665	No	32	119	70	2020
LAVA15310	327.0	490.5	654.0	817.5	324.9	487.3	649.8	812.2	43800	Compliant	32	119	70	2035
LAVA15312	359.6	539.4	719.3	899.1	361.6	542.4	723.2	904.1	42870	No	32	119	70	2066
LAVA15408	348.2	522.3	696.3	870.4	343.8	515.6	687.5	859.4	42910	Compliant	41	159	70	2160
LAVA15410	381.1	571.6	762.2	952.7	387.2	580.8	774.4	968.0	41570	Compliant	41	159	70	2181
LAVA15412	405.8	608.7	811.6	1014.5	419.2	628.8	838.4	1047.9	40125	No	41	159	70	2222
LEVA16308	350.6	525.9	701.2	876.5	338.2	507.3	676.4	845.5	53598	No	65	266	71	2554
LEVA16310	392.4	588.6	784.8	981.0	389.9	584.8	779.7	974.7	52560	Compliant	65	266	71	2573
LEVA16312	431.6	647.3	863.1	1078.9	433.9	650.9	867.9	1084.9	51444	No	65	266	71	2610
LEVA16408	417.8	626.7	835.6	1044.5	412.5	618.8	825.0	1031.3	51492	Compliant	84	354	71	2784
LEVA16410	457.3	686.0	914.6	1143.3	464.6	697.0	929.3	1161.6	49884	Compliant	84	354	71	2808
LEVA16412	486.9	730.4	973.9	1217.3	503.0	754.5	1006.0	1257.5	48150	No	84	354	71	2858

NOTE: Capacity ratings are based on midpoint condensing temperature, 95°F entering air temperature and 0°F sub-cooling. The temperature difference is between the midpoint condensing temp. and the entering air temp. to the condenser.

See Corrections Factor Table on page 8. See Electrical Motor AMP Data Table on page 13.

Levitor II Air-Cooled Condenser

LAVA Performance Data

TWO FANS WIDE														
MODEL	TOTAL HEAT OF REJECTION (MBH)								AIR FLOW (CFM)	CEC TITLE 24 COMPLIANT	CONDENSER CHARGE R-404A (LBS)		EST SOUND 10' (dBA)	SHIP WEIGHT (LBS)
	R-404A, R-507A				R-407A, R-448A / R-449A						SUMMER	WINTER		
	TEMPERATURE DIFFERENCE				TEMPERATURE DIFFERENCE									
	10°F	15°F	20°F	25°F	10°F	15°F	20°F	25°F						
LAVA22208	167.5	251.3	335.0	418.8	161.3	242.0	322.7	403.4	37040	No	18	64	69	1311
LAVA22210	195.1	292.7	390.3	487.9	189.2	283.8	378.4	473.0	36604	No	18	64	69	1320
LAVA22212	217.3	326.0	434.6	543.3	213.7	320.5	427.3	534.1	36160	No	18	64	69	1336
LAVA22308	233.7	350.6	467.4	584.3	225.5	338.2	450.9	563.7	35732	No	26	96	69	1425
LAVA22310	261.6	392.4	523.2	654.0	259.9	389.9	519.8	649.8	35040	Compliant	26	96	69	1437
LAVA22312	287.7	431.6	575.4	719.3	289.3	433.9	578.6	723.2	34296	No	26	96	69	1462
LAVA22408	278.5	417.8	557.1	696.3	275.0	412.5	550.0	687.5	34328	Compliant	34	128	69	1539
LAVA22410	304.9	457.3	609.7	762.2	309.8	464.6	619.5	774.4	33256	Compliant	34	128	69	1555
LAVA22412	324.6	486.9	649.2	811.6	335.3	503.0	670.7	838.4	32100	No	34	128	69	1588
LAVA23210	292.7	439.1	585.4	731.8	283.8	425.7	567.6	709.5	54906	No	26	96	71	1875
LAVA23212	326.0	489.0	652.0	815.0	320.5	480.7	641.0	801.2	54240	No	26	96	71	1912
LAVA23308	350.6	525.9	701.2	876.5	338.2	507.3	676.4	845.5	53598	No	36	144	71	2044
LAVA23310	392.4	588.6	784.8	981.0	389.9	584.8	779.7	974.7	52560	Compliant	36	144	71	2063
LAVA23312	431.6	647.3	863.1	1078.9	433.9	650.9	867.9	1084.9	51444	No	36	144	71	2100
LAVA23408	417.8	626.7	835.6	1044.5	412.5	618.8	825.0	1031.3	51492	Compliant	48	192	71	2214
LAVA23410	457.3	686.0	914.6	1143.3	464.6	697.0	929.3	1161.6	49884	Compliant	48	192	71	2238
LAVA23412	486.9	730.4	973.9	1217.3	503.0	754.5	1006.0	1257.5	48150	No	48	192	71	2287
LAVA24308	467.4	701.2	934.9	1168.6	450.9	676.4	901.8	1127.3	71464	No	48	192	72	2526
LAVA24310	523.2	784.8	1046.4	1308.0	519.8	779.7	1039.6	1299.6	70080	Compliant	48	192	72	2651
LAVA24312	575.4	863.1	1150.8	1438.5	578.6	867.9	1157.2	1446.5	68592	No	48	192	72	2700
LAVA24408	557.1	835.6	1114.1	1392.7	550.0	825.0	1100.0	1375.0	68656	Compliant	64	254	72	2851
LAVA24410	609.7	914.6	1219.5	1524.4	619.5	929.3	1239.0	1548.8	66512	Compliant	64	254	72	2884
LAVA24412	649.2	973.9	1298.5	1623.1	670.7	1006.0	1341.4	1676.7	64200	No	64	254	72	2950
LAVA25308	584.3	876.5	1168.6	1460.8	563.7	845.5	1127.3	1409.1	89330	No	64	238	73	3725
LAVA25310	654.0	981.0	1308.0	1635.0	649.8	974.7	1299.6	1624.5	87600	Compliant	64	238	73	3755
LAVA25312	719.3	1078.9	1438.5	1798.2	723.2	1084.9	1446.5	1808.1	85740	No	64	238	73	3817
LAVA25408	696.3	1044.5	1392.7	1740.9	687.5	1031.3	1375.0	1718.8	85820	Compliant	82	318	73	4005
LAVA25410	762.2	1143.3	1524.4	1905.5	774.4	1161.6	1548.8	1936.0	83140	Compliant	82	318	73	4046
LAVA25412	811.6	1217.3	1623.1	2028.9	838.4	1257.5	1676.7	2095.9	80250	No	82	318	73	4129
LEVA26308	701.2	1051.7	1402.3	1752.9	676.4	1014.6	1352.8	1691.0	107196	No	130	532	74	4759
LEVA26310	784.8	1177.2	1569.6	1962.0	779.7	1169.6	1559.5	1949.3	105120	Compliant	130	532	74	4796
LEVA26312	863.1	1294.7	1726.2	2157.8	867.9	1301.8	1735.8	2169.7	102888	No	130	532	74	4870
LEVA26408	835.6	1253.4	1671.2	2089.0	825.0	1237.5	1650.0	2062.6	102984	Compliant	168	708	74	5218
LEVA26410	914.6	1371.9	1829.2	2286.5	929.3	1393.9	1858.5	2323.2	99768	Compliant	168	708	74	5268
LEVA26412	973.9	1460.8	1947.7	2434.7	1006.0	1509.0	2012.0	2515.1	96300	No	168	708	74	5366

CORRECTION FACTORS TABLE

REFRIGERANTS	MULTIPLY R-404A BY CAPACITY FACTOR	CHARGE CORRECTION FACTOR	
		SUMMER	WINTER
R-404A	1.00	1.00	1.00
R-134a	0.97	1.17	1.11
R-410A	1.02	1.02	1.03
R-22	1.02	1.14	1.09
R-407A	See R-407A Chart	1.10	1.08
R-407C	0.98 x R-407A	1.09	1.07
R-448A / R-449A	See R-448A / R-449A Chart	1.06	1.04

NOTE: Capacity ratings are based on midpoint condensing temperature, 95°F entering air temperature and 0°F sub-cooling. The temperature difference is between the midpoint condensing temp. and the entering air temp. to the condenser.

For units using 380/3/50, multiply capacity by 0.90.

See Electrical Motor AMP Data Tables on page 13.

Levitor II Air-Cooled Condenser

LAVC Performance Data

ONE FAN WIDE														
MODEL	TOTAL HEAT OF REJECTION (MBH)								AIR FLOW (CFM)	CEC TITLE 24 COMPLIANT	CONDENSER CHARGE R-404A (LBS)		EST SOUND 10' (dBA)	SHIP WEIGHT (LBS)
	R-404A, R-507A				R-407A, R-448A / R-449A						SUMMER	WINTER		
	TEMPERATURE DIFFERENCE				TEMPERATURE DIFFERENCE									
	10°F	15°F	20°F	25°F	10°F	15°F	20°F	25°F						
LAVC11208	44.6	66.9	89.2	111.5	43.2	64.9	86.5	108.1	10967	No	4	17	65	437
LAVC11210	51.8	77.7	103.6	129.5	50.4	75.6	100.8	126.0	10682	No	4	17	65	439
LAVC11212	57.6	86.5	115.3	144.1	56.7	85.0	113.3	141.7	10409	No	4	17	65	444
LAVC11308	61.5	92.3	123.1	153.8	59.9	89.9	119.9	149.9	10159	No	6	25	65	466
LAVC11310	69.1	103.6	138.2	172.7	68.8	103.2	137.6	172.0	9785	No	6	25	65	469
LAVC11312	75.8	113.7	151.6	189.6	75.9	113.9	151.8	189.8	9441	No	6	25	65	478
LAVC11408	72.1	108.1	144.1	180.1	72.3	108.5	144.6	180.8	9449	No	8	33	65	495
LAVC11410	80.0	120.0	160.1	200.1	80.8	121.3	161.7	202.1	9031	Compliant	8	33	65	499
LAVC11412	85.0	127.5	170.0	212.5	87.7	131.6	175.4	219.3	8660	No	8	33	65	508
LAVC12208	89.2	133.8	178.4	222.9	86.5	129.7	173.0	216.2	21934	No	9	32	68	718
LAVC12210	103.6	155.4	207.2	259.0	100.8	151.2	201.6	251.9	21364	No	9	32	68	721
LAVC12212	115.3	172.9	230.6	288.2	113.3	170.0	226.6	283.3	20818	No	9	32	68	729
LAVC12308	123.1	184.6	246.1	307.7	119.9	179.8	239.8	299.7	20318	No	13	48	68	773
LAVC12310	138.2	207.2	276.3	345.4	137.6	206.4	275.2	344.0	19570	No	13	48	68	779
LAVC12312	151.6	227.5	303.3	379.1	151.8	227.7	303.6	379.5	18882	No	13	48	68	792
LAVC12408	144.1	216.2	288.2	360.3	144.6	216.9	289.2	361.5	18898	No	17	64	68	830
LAVC12410	160.1	240.1	320.1	400.1	161.7	242.5	323.4	404.2	18062	Compliant	17	64	68	838
LAVC12412	170.0	255.0	340.0	425.0	175.4	263.1	350.9	438.6	17320	No	17	64	68	855
LAVC13210	155.4	233.1	310.8	388.5	151.2	226.8	302.3	377.9	32046	No	13	48	70	1041
LAVC13212	172.9	259.4	345.9	432.4	170.0	255.0	340.0	425.0	31227	No	13	48	70	1060
LAVC13308	184.6	276.9	369.2	461.5	179.8	269.7	359.7	449.6	30477	No	18	72	70	1126
LAVC13310	207.2	310.9	414.5	518.1	206.4	309.6	412.8	516.0	29355	No	18	72	70	1135
LAVC13312	227.5	341.2	454.9	568.7	227.7	341.6	455.4	569.3	28323	No	18	72	70	1153
LAVC13408	216.2	324.2	432.3	540.4	216.9	325.4	433.8	542.3	28347	No	24	96	70	1210
LAVC13410	240.1	360.1	480.2	600.2	242.5	363.8	485.0	606.3	27093	Compliant	24	96	70	1223
LAVC13412	255.0	382.5	510.0	637.5	263.1	394.7	526.3	657.9	25980	No	24	96	70	1247
LAVC14308	246.1	369.2	492.2	615.3	239.8	359.7	479.5	599.4	40636	No	24	96	71	1437
LAVC14310	276.3	414.5	552.6	690.8	275.2	412.8	550.4	688.0	39140	No	24	96	71	1449
LAVC14312	303.3	454.9	606.6	758.2	303.6	455.4	607.2	759.0	37764	No	24	96	71	1474
LAVC14408	288.2	432.3	576.4	720.5	289.2	433.8	578.5	723.1	37796	No	32	127	71	1550
LAVC14410	320.1	480.2	640.2	800.3	323.4	485.0	646.7	808.4	36124	Compliant	32	127	71	1566
LAVC14412	340.0	510.0	680.0	850.0	350.9	526.3	701.7	877.2	34640	No	32	127	71	1599
LAVC15308	307.7	461.5	615.3	769.1	299.7	449.6	599.4	749.3	50795	No	32	119	72	2020
LAVC15310	345.4	518.1	690.8	863.5	344.0	516.0	688.0	860.0	48925	No	32	119	72	2035
LAVC15312	379.1	568.7	758.2	947.8	379.5	569.3	759.0	948.8	47205	No	32	119	72	2066
LAVC15408	360.3	540.4	720.5	900.7	361.5	542.3	723.1	903.9	47245	No	41	159	72	2160
LAVC15410	400.1	600.2	800.3	1000.4	404.2	606.3	808.4	1010.5	45155	Compliant	41	159	72	2181
LAVC15412	425.0	637.5	850.0	1062.4	438.6	657.9	877.2	1096.5	43300	No	41	159	72	2222
LEVC16308	369.2	553.8	738.4	923.0	359.7	539.5	719.3	899.1	60954	No	65	266	73	2554
LEVC16310	414.5	621.7	828.9	1036.2	412.8	619.2	825.6	1032.0	58710	No	65	266	73	2573
LEVC16312	454.9	682.4	909.8	1137.3	455.4	683.1	910.8	1138.5	56646	No	65	266	73	2610
LEVC16408	432.3	648.5	864.6	1080.8	433.8	650.8	867.7	1084.6	56694	No	84	354	73	2784
LEVC16410	480.2	720.3	960.3	1200.4	485.0	727.6	970.1	1212.6	54186	Compliant	84	354	73	2808
LEVC16412	510.0	765.0	1019.9	1274.9	526.3	789.4	1052.6	1315.7	51960	No	84	354	73	2858

NOTE: Capacity ratings are based on midpoint condensing temperature, 95°F entering air temperature and 0°F sub-cooling. The temperature difference is between the midpoint condensing temp. and the entering air temp. to the condenser.

See Corrections Factor Table on page 10. See Electrical Motor AMP Data Table on page 13.

Levitor II Air-Cooled Condenser

LAVC Performance Data

TWO FANS WIDE														
MODEL	TOTAL HEAT OF REJECTION (MBH)								AIR FLOW (CFM)	CEC TITLE 24 COMPLIANT	CONDENSER CHARGE R-404A (LBS)		EST SOUND 10' (dBA)	SHIP WEIGHT (LBS)
	R-404A, R-507A				R-407A, R-448A / R-449A						SUMMER	WINTER		
	TEMPERATURE DIFFERENCE				TEMPERATURE DIFFERENCE									
	10°F	15°F	20°F	25°F	10°F	15°F	20°F	25°F						
LAVC22208	178.4	267.5	356.7	445.9	173.0	259.5	346.0	432.5	43868	No	18	64	71	1311
LAVC22210	207.2	310.8	414.4	518.1	201.6	302.3	403.1	503.9	42728	No	18	64	71	1320
LAVC22212	230.6	345.9	461.2	576.5	226.6	340.0	453.3	566.6	41636	No	18	64	71	1336
LAVC22308	246.1	369.2	492.2	615.3	239.8	359.7	479.5	599.4	40636	No	26	96	71	1425
LAVC22310	276.3	414.5	552.6	690.8	275.2	412.8	550.4	688.0	39140	No	26	96	71	1437
LAVC22312	303.3	454.9	606.6	758.2	303.6	455.4	607.2	759.0	37764	No	26	96	71	1462
LAVC22408	288.2	432.3	576.4	720.5	289.2	433.8	578.5	723.1	37796	No	34	128	71	1539
LAVC22410	320.1	480.2	640.2	800.3	323.4	485.0	646.7	808.4	36124	Compliant	34	128	71	1555
LAVC22412	340.0	510.0	680.0	850.0	350.9	526.3	701.7	877.2	34640	No	34	128	71	1588
LAVC23210	310.8	466.3	621.7	777.1	302.3	453.5	604.7	755.8	64092	No	26	96	73	1875
LAVC23212	345.9	518.8	691.8	864.7	340.0	510.0	679.9	849.9	62454	No	26	96	73	1912
LAVC23308	369.2	553.8	738.4	923.0	359.7	539.5	719.3	899.1	60954	No	36	144	73	2044
LAVC23310	414.5	621.7	828.9	1036.2	412.8	619.2	825.6	1032.0	58710	No	36	144	73	2063
LAVC23312	454.9	682.4	909.8	1137.3	455.4	683.1	910.8	1138.5	56646	No	36	144	73	2100
LAVC23408	432.3	648.5	864.6	1080.8	433.8	650.8	867.7	1084.6	56694	No	48	192	73	2214
LAVC23410	480.2	720.3	960.3	1200.4	485.0	727.6	970.1	1212.6	54186	Compliant	48	192	73	2238
LAVC23412	510.0	765.0	1019.9	1274.9	526.3	789.4	1052.6	1315.7	51960	No	48	192	73	2287
LAVC24308	492.2	738.4	984.5	1230.6	479.5	719.3	959.1	1198.9	81272	No	48	192	74	2526
LAVC24310	552.6	828.9	1105.2	1381.6	550.4	825.6	1100.8	1375.9	78280	No	48	192	74	2651
LAVC24312	606.6	909.8	1213.1	1516.4	607.2	910.8	1214.4	1518.0	75528	No	48	192	74	2700
LAVC24408	576.4	864.6	1152.9	1441.1	578.5	867.7	1156.9	1446.2	75592	No	64	254	74	2851
LAVC24410	640.2	960.3	1280.4	1600.6	646.7	970.1	1293.4	1616.8	72248	Compliant	64	254	74	2884
LAVC24412	680.0	1019.9	1359.9	1699.9	701.7	1052.6	1403.5	1754.3	69280	No	64	254	74	2950
LAVC25308	615.3	923.0	1230.6	1538.3	599.4	899.1	1198.9	1498.6	101590	No	64	238	75	3725
LAVC25310	690.8	1036.2	1381.6	1727.0	688.0	1032.0	1375.9	1719.9	97850	No	64	238	75	3755
LAVC25312	758.2	1137.3	1516.4	1895.5	759.0	1138.5	1518.0	1897.5	94410	No	64	238	75	3817
LAVC25408	720.5	1080.8	1441.1	1801.4	723.1	1084.6	1446.2	1807.7	94490	No	82	318	75	4005
LAVC25410	800.3	1200.4	1600.6	2000.7	808.4	1212.6	1616.8	2021.0	90310	Compliant	82	318	75	4046
LAVC25412	850.0	1274.9	1699.9	2124.9	877.2	1315.7	1754.3	2192.9	86600	No	82	318	75	4129
LEVC26308	738.4	1107.5	1476.7	1845.9	719.3	1079.0	1438.6	1798.3	121908	No	130	532	76	4759
LEVC26310	828.9	1243.4	1657.9	2072.3	825.6	1238.3	1651.1	2063.9	117420	No	130	532	76	4796
LEVC26312	909.8	1364.8	1819.7	2274.6	910.8	1366.2	1821.6	2277.0	113292	No	130	532	76	4870
LEVC26408	864.6	1297.0	1729.3	2161.6	867.7	1301.5	1735.4	2169.2	113388	No	168	708	76	5218
LEVC26410	960.3	1440.5	1920.7	2400.8	970.1	1455.1	1940.2	2425.2	108372	Compliant	168	708	76	5268
LEVC26412	1019.9	1529.9	2039.9	2549.9	1052.6	1578.9	2105.2	2631.5	103920	No	168	708	76	5366

CORRECTION FACTORS TABLE

REFRIGERANTS	MULTIPLY R-404A BY CAPACITY FACTOR	CHARGE CORRECTION FACTOR	
		SUMMER	WINTER
R-404A	1.00	1.00	1.00
R-134a	0.97	1.17	1.11
R-410A	1.02	1.02	1.03
R-22	1.02	1.14	1.09
R-407A	See R-407A Chart	1.10	1.08
R-407C	0.98 x R-407A	1.09	1.07
R-448A / R-449A	See R-448A / R-449A Chart	1.06	1.04

NOTE: Capacity ratings are based on midpoint condensing temperature, 95°F entering air temperature and 0°F sub-cooling. The temperature difference is between the midpoint condensing temp. and the entering air temp. to the condenser.

For units using 380/3/50, multiply capacity by 0.90.

See Electrical Motor AMP Data Tables on page 13.

Levitor II Air-Cooled Condenser

LAVF Performance Data

ONE FAN WIDE														
MODEL	TOTAL HEAT OF REJECTION (MBH)								AIR FLOW (CFM)	CEC TITLE 24 COMPLIANT	CONDENSER CHARGE R-404A (LBS)		EST SOUND 10' (dBA)	SHIP WEIGHT (LBS)
	R-404A, R-507A				R-407A, R-448A / R-449A						SUMMER	WINTER		
	TEMPERATURE DIFFERENCE				TEMPERATURE DIFFERENCE									
	10°F	15°F	20°F	25°F	10°F	15°F	20°F	25°F						
LAVF11208	46.3	69.4	92.5	115.6	44.2	66.3	88.4	110.5	11649	No	4	17	72	437
LAVF11210	53.2	79.8	106.4	133.0	51.8	77.7	103.6	129.5	11541	No	4	17	72	439
LAVF11212	59.8	89.7	119.6	149.5	58.5	87.8	117.1	146.3	11430	No	4	17	72	444
LAVF11308	64.7	97.1	129.5	161.9	62.9	94.4	125.9	157.3	11323	No	6	25	72	466
LAVF11310	74.0	111.0	148.0	185.1	73.2	109.8	146.4	183.0	11147	No	6	25	72	469
LAVF11312	81.8	122.8	163.7	204.6	81.8	122.6	163.5	204.4	10969	No	6	25	72	478
LAVF11408	78.2	117.2	156.3	195.4	77.8	116.6	155.5	194.4	10974	No	8	33	72	495
LAVF11410	87.6	131.3	175.1	218.9	88.4	132.7	176.9	221.1	10730	Compliant	8	33	72	499
LAVF11412	95.1	142.6	190.2	237.7	97.2	145.7	194.3	242.9	10486	No	8	33	72	508
LAVF12208	92.5	138.8	185.0	231.3	88.4	132.5	176.7	220.9	23298	No	9	32	75	718
LAVF12210	106.4	159.6	212.8	266.0	103.6	155.4	207.1	258.9	23082	No	9	32	75	721
LAVF12212	119.6	179.4	239.2	299.0	117.1	175.6	234.1	292.7	22860	No	9	32	75	729
LAVF12308	129.5	194.2	259.0	323.7	125.9	188.8	251.7	314.6	22646	No	13	48	75	773
LAVF12310	148.0	222.1	296.1	370.1	146.4	219.6	292.8	366.0	22294	No	13	48	75	779
LAVF12312	163.7	245.5	327.3	409.2	163.5	245.3	327.0	408.8	21938	No	13	48	75	792
LAVF12408	156.3	234.5	312.6	390.8	155.5	233.3	311.0	388.8	21948	No	17	64	75	830
LAVF12410	175.1	262.7	350.3	437.8	176.9	265.3	353.8	442.2	21460	Compliant	17	64	75	838
LAVF12412	190.2	285.3	380.4	475.5	194.3	291.5	388.6	485.8	20972	No	17	64	75	855
LAVF13210	159.6	239.4	319.2	398.9	155.4	233.0	310.7	388.4	34623	No	13	48	77	1041
LAVF13212	179.4	269.1	358.8	448.5	175.6	263.4	351.2	439.0	34290	No	13	48	77	1060
LAVF13308	194.2	291.4	388.5	485.6	188.8	283.2	377.6	472.0	33969	No	18	72	77	1126
LAVF13310	222.1	333.1	444.1	555.2	219.6	329.4	439.2	549.0	33441	No	18	72	77	1135
LAVF13312	245.5	368.3	491.0	613.8	245.3	367.9	490.6	613.2	32907	No	18	72	77	1153
LAVF13408	234.5	351.7	468.9	586.2	233.3	349.9	466.6	583.2	32922	No	24	96	77	1210
LAVF13410	262.7	394.0	525.4	656.7	265.3	398.0	530.7	663.3	32190	Compliant	24	96	77	1223
LAVF13412	285.3	427.9	570.6	713.2	291.5	437.2	582.9	728.6	31458	No	24	96	77	1247
LAVF14308	259.0	388.5	518.0	647.5	251.7	377.6	503.4	629.3	45292	No	24	96	78	1437
LAVF14310	296.1	444.1	592.2	740.2	292.8	439.2	585.6	732.0	44588	No	24	96	78	1449
LAVF14312	327.3	491.0	654.7	818.4	327.0	490.6	654.1	817.6	43876	No	24	96	78	1474
LAVF14408	312.6	468.9	625.2	781.6	311.0	466.6	622.1	777.6	43896	No	32	127	78	1550
LAVF14410	350.3	525.4	700.5	875.6	353.8	530.7	707.6	884.4	42920	Compliant	32	127	78	1566
LAVF14412	380.4	570.6	760.7	950.9	388.6	582.9	777.2	971.5	41944	No	32	127	78	1599
LAVF15308	323.7	485.6	647.5	809.4	314.6	472.0	629.3	786.6	56615	No	32	119	79	2020
LAVF15310	370.1	555.2	740.2	925.3	366.0	549.0	732.0	915.0	55735	No	32	119	79	2035
LAVF15312	409.2	613.8	818.4	1023.0	408.8	613.2	817.6	1022.0	54845	No	32	119	79	2066
LAVF15408	390.8	586.2	781.6	977.0	388.8	583.2	777.6	972.0	54870	No	41	159	79	2160
LAVF15410	437.8	656.7	875.6	1094.6	442.2	663.3	884.4	1105.6	53650	Compliant	41	159	79	2181
LAVF15412	475.5	713.2	950.9	1188.7	485.8	728.6	971.5	1214.4	52430	No	41	159	79	2222
LEV16308	388.5	582.7	777.0	971.2	377.6	566.4	755.1	943.9	67938	No	65	266	80	2554
LEV16310	444.1	666.2	888.3	1110.3	439.2	658.8	878.4	1098.0	66882	No	65	266	80	2573
LEV16312	491.0	736.5	982.0	1227.5	490.6	735.8	981.1	1226.4	65814	No	65	266	80	2610
LEV16408	468.9	703.4	937.9	1172.3	466.6	699.8	933.1	1166.4	65844	No	84	354	80	2784
LEV16410	525.4	788.1	1050.8	1313.5	530.7	796.0	1061.3	1326.7	64380	Compliant	84	354	80	2808
LEV16412	570.6	855.8	1141.1	1426.4	582.9	874.4	1165.8	1457.3	62916	No	84	354	80	2858

NOTE: Capacity ratings are based on midpoint condensing temperature, 95°F entering air temperature and 0°F sub-cooling. The temperature difference is between the midpoint condensing temp. and the entering air temp. to the condenser.

See Corrections Factor Table on page 12. See Electrical Motor AMP Data Table on page 13.

Levitor II Air-Cooled Condenser

LAVF Performance Data

TWO FANS WIDE														
MODEL	TOTAL HEAT OF REJECTION (MBH)								AIR FLOW (CFM)	CEC TITLE 24 COMPLIANT	CONDENSER CHARGE R-404A (LBS)		EST SOUND 10' (dBA)	SHIP WEIGHT (LBS)
	R-404A, R-507A				R-407A, R-448A / R-449A						SUMMER	WINTER		
	TEMPERATURE DIFFERENCE				TEMPERATURE DIFFERENCE									
	10°F	15°F	20°F	25°F	10°F	15°F	20°F	25°F						
LAVF22208	185.0	277.5	370.0	462.5	176.7	265.1	353.4	441.8	46,596	No	18	64	78	1311
LAVF22210	212.8	319.2	425.5	531.9	207.1	310.7	414.3	517.9	46,164	No	18	64	78	1320
LAVF22212	239.2	358.8	478.4	598.0	234.1	351.2	468.3	585.4	45,720	No	18	64	78	1336
LAVF 22308	259.0	388.5	518.0	647.5	251.7	377.6	503.4	629.3	45,292	No	26	96	78	1425
LAVF22310	296.1	444.1	592.2	740.2	292.8	439.2	585.6	732.0	44,588	No	26	96	78	1437
LAVF22312	327.3	491.0	654.7	818.4	327.0	490.6	654.1	817.6	43,876	No	26	96	78	1462
LAVF22408	312.6	468.9	625.2	781.6	311.0	466.6	622.1	777.6	43,896	No	34	128	78	1539
LAVF22410	350.3	525.4	700.5	875.6	353.8	530.7	707.6	884.4	42,920	Compliant	34	128	78	1555
LAVF22412	380.4	570.6	760.7	950.9	388.6	582.9	777.2	971.5	41,944	No	34	128	78	1588
LAVF23210	319.2	478.7	638.3	797.9	310.7	466.1	621.4	776.8	69,246	No	26	96	80	1875
LAVF23212	358.8	538.2	717.6	897.0	351.2	526.8	702.4	878.0	68,580	No	26	96	80	1912
LAVF23308	388.5	582.7	777.0	971.2	377.6	566.4	755.1	943.9	67,938	No	36	144	80	2044
LAVF23310	444.1	666.2	888.3	1110.3	439.2	658.8	878.4	1098.0	66,882	No	36	144	80	2063
LAVF23312	491.0	736.5	982.0	1227.5	490.6	735.8	981.1	1226.4	65,814	No	36	144	80	2100
LAVF23408	468.9	703.4	937.9	1172.3	466.6	699.8	933.1	1166.4	65,844	No	48	192	80	2214
LAVF23410	525.4	788.1	1050.8	1313.5	530.7	796.0	1061.3	1326.7	64,380	Compliant	48	192	80	2238
LAVF23412	570.6	855.8	1141.1	1426.4	582.9	874.4	1165.8	1457.3	62,916	No	48	192	80	2287
LAVF24308	518.0	777.0	1036.0	1295.0	503.4	755.1	1006.8	1258.6	90,584	No	48	192	81	2526
LAVF24310	592.2	888.3	1184.3	1480.4	585.6	878.4	1171.2	1464.0	89,176	No	48	192	81	2651
LAVF24312	654.7	982.0	1309.4	1636.7	654.1	981.1	1308.1	1635.2	87,752	No	48	192	81	2700
LAVF24408	625.2	937.9	1250.5	1563.1	622.1	933.1	1244.2	1555.2	87,792	No	64	254	81	2851
LAVF24410	700.5	1050.8	1401.0	1751.3	707.6	1061.3	1415.1	1768.9	85,840	Compliant	64	254	81	2884
LAVF24412	760.7	1141.1	1521.5	1901.8	777.2	1165.8	1554.4	1943.0	83,888	No	64	254	81	2950
LAVF25308	647.5	971.2	1295.0	1618.7	629.3	943.9	1258.6	1573.2	113,230	No	64	238	82	3725
LAVF25310	740.2	1110.3	1480.4	1850.5	732.0	1098.0	1464.0	1830.1	111,470	No	64	238	82	3755
LAVF25312	818.4	1227.5	1636.7	2045.9	817.6	1226.4	1635.2	2044.0	109,690	No	64	238	82	3817
LAVF25408	781.6	1172.3	1563.1	1953.9	777.6	1166.4	1555.2	1944.0	109,740	No	82	318	82	4005
LAVF25410	875.6	1313.5	1751.3	2189.1	884.4	1326.7	1768.9	2211.1	107,300	Compliant	82	318	82	4046
LAVF25412	950.9	1426.4	1901.8	2377.3	971.5	1457.3	1943.0	2428.8	104,860	No	82	318	82	4129
LEV26308	777.0	1165.5	1554.0	1942.5	755.1	1132.7	1510.3	1887.8	135,876	No	130	532	83	4759
LEV26310	888.3	1332.4	1776.5	2220.6	878.4	1317.6	1756.8	2196.1	133,764	No	130	532	83	4796
LEV26312	982.0	1473.0	1964.1	2455.1	981.1	1471.7	1962.2	2452.8	131,628	No	130	532	83	4870
LEV26408	937.9	1406.8	1875.7	2344.7	933.1	1399.7	1866.2	2332.8	131,688	No	168	708	83	5218
LEV26410	1050.8	1576.2	2101.5	2626.9	1061.3	1592.0	2122.7	2653.3	128,760	Compliant	168	708	83	5268
LEV26412	1141.1	1711.7	2282.2	2852.8	1165.8	1748.7	2331.6	2914.6	125,832	No	168	708	83	5366

CORRECTION FACTORS TABLE

REFRIGERANTS	MULTIPLY R-404A BY CAPACITY FACTOR	CHARGE CORRECTION FACTOR	
		SUMMER	WINTER
R-404A	1.00	1.00	1.00
R-134a	0.97	1.17	1.11
R-410A	1.02	1.02	1.03
R-22	1.02	1.14	1.09
R-407A	See R-407A Chart	1.10	1.08
R-407C	0.98 x R-407A	1.09	1.07
R-448A / R-449A	See R-448A / R-449A Chart	1.06	1.04

NOTE: Capacity ratings are based on midpoint condensing temperature, 95°F entering air temperature and 0°F sub-cooling. The temperature difference is between the midpoint condensing temp. and the entering air temp. to the condenser.

For units using 380/3/50, multiply capacity by 0.90.

See Electrical Motor AMP Data Tables on page 13.

Levitor II Air-Cooled Condenser

Electrical Motor AMP Data

0.5 HP - 575 RPM

FAN MOTOR TOTAL FULL LOAD AMPS					FAN MOTOR TOTAL FULL LOAD AMPS				
	208-230/3/60	380/3/50	460/3/60	575/3/60		208-230/3/60	380/3/50	460/3/60	575/3/60
LAVE-11	3.4	1.4	1.6	1.45	–	–	–	–	–
LAVE-12	6.8	2.8	3.2	2.90	LAVE-22	13.6	5.6	6.4	5.8
LAVE-13	10.2	4.2	4.8	4.35	LAVE-23	20.4	8.4	9.6	8.7
LAVE-14	13.6	5.6	6.4	5.80	LAVE-24	27.2	11.2	12.8	11.6
LAVE-15	17.0	7.0	8.0	7.25	LAVE-25	34.0	14.0	16.0	14.5
LEVE-16	20.4	8.4	9.6	8.70	LEVE-26	40.8	16.8	19.2	17.4

1.0 HP - 850 RPM

FAN MOTOR TOTAL FULL LOAD AMPS					FAN MOTOR TOTAL FULL LOAD AMPS				
	208-230/3/60	380/3/50	460/3/60	575/3/60		208-230/3/60	380/3/50	460/3/60	575/3/60
LAVA-11	4.8	2.3	2.4	1.8	–	–	–	–	–
LAVA-12	9.6	4.6	4.8	3.6	LAVA-22	19.2	9.2	9.6	7.2
LAVA-13	14.4	6.9	7.2	5.4	LAVA-23	28.8	13.8	14.4	10.8
LAVA-14	19.2	9.2	9.6	7.2	LAVA-24	38.4	18.4	19.2	14.4
LAVA-15	24.0	11.5	12.0	9.0	LAVA-25	48.0	23.0	24.0	18.0
LEVA-16	28.8	13.8	14.4	10.8	LEVA-26	57.6	27.6	28.8	21.6

1.5 HP - 850 RPM

FAN MOTOR TOTAL FULL LOAD AMPS					FAN MOTOR TOTAL FULL LOAD AMPS				
	208-230/3/60	380/3/50	460/3/60	575/3/60		208-230/3/60	380/3/50	460/3/60	575/3/60
LAVC-11	6.9	2.9	3.3	2.5	–	–	–	–	–
LAVC-12	13.8	5.8	6.6	5.0	LAVC-22	27.6	11.6	13.2	10
LAVC-13	20.7	8.7	9.9	7.5	LAVC-23	41.4	17.4	19.8	15
LAVC-14	27.6	11.6	13.2	10.0	LAVC-24	55.2	23.2	26.4	20
LAVC-15	34.5	14.5	16.5	12.5	LAVC-25	69.0	29.0	33.0	25
LEVC-16	41.4	17.4	19.8	15.0	LEVC-26	82.8	34.8	39.6	30

1.5 HP - 1140 RPM

FAN MOTOR TOTAL FULL LOAD AMPS					FAN MOTOR TOTAL FULL LOAD AMPS				
	208-230/3/60	380/3/50	460/3/60	575/3/60		208-230/3/60	380/3/50	460/3/60	575/3/60
LAVF-11	5.4	2.1	2.5	2.5	–	–	–	–	–
LAVF-12	10.8	4.2	5.0	5.0	LAVF-22	21.6	8.4	10	10
LAVF-13	16.2	6.3	7.5	7.5	LAVF-23	32.4	12.6	15	15
LAVF-14	21.6	8.4	10.0	10.0	LAVF-24	43.2	16.8	20	20
LAVF-15	27.0	10.5	12.5	12.5	LAVF-25	54.0	21.0	25	25
LEVF-16	32.4	12.6	15.0	15.0	LEVF-26	64.8	25.2	30	30

0.5 HP - 1140 RPM

FAN MOTOR TOTAL FULL LOAD AMPS					FAN MOTOR TOTAL FULL LOAD AMPS				
	208-230/1/60	208-230/3/60	460/3/60	575/3/60		208-230/1/60	208-230/3/60	460/3/60	575/3/60
LAVB-11	4.2	2.5	1.3	0.95	–	–	–	–	–
LAVB-12	8.4	5.0	2.6	1.90	LAVB-22	16.8	10.0	5.2	3.8
LAVB-13	12.6	7.5	3.9	2.85	LAVB-23	25.2	15.0	7.8	5.7
LAVB-14	16.8	10.0	5.2	3.80	LAVB-24	33.6	20.0	10.4	7.6
LAVB-15	21.0	12.5	6.5	4.75	LAVB-25	42.0	25.0	13.0	9.5
LAVB-16	25.2	15.0	7.8	5.70	LAVB-26	50.4	30.0	15.6	11.4
LAVB-17	29.4	17.5	9.1	6.65	LAVB-27	58.8	35.0	18.2	13.3

NOTE: The tables show the motor Full Load Amps (FLA). For nameplate MCA and MOP, use the following calculations:
 Minimum Unit Circuit Amps = 1.25 x FLA of One Motor + FLA of All Remaining Motors. Maximum Unit Overload Protection = 4.00 x FLA of One Motor + FLA of All Remaining Motors.

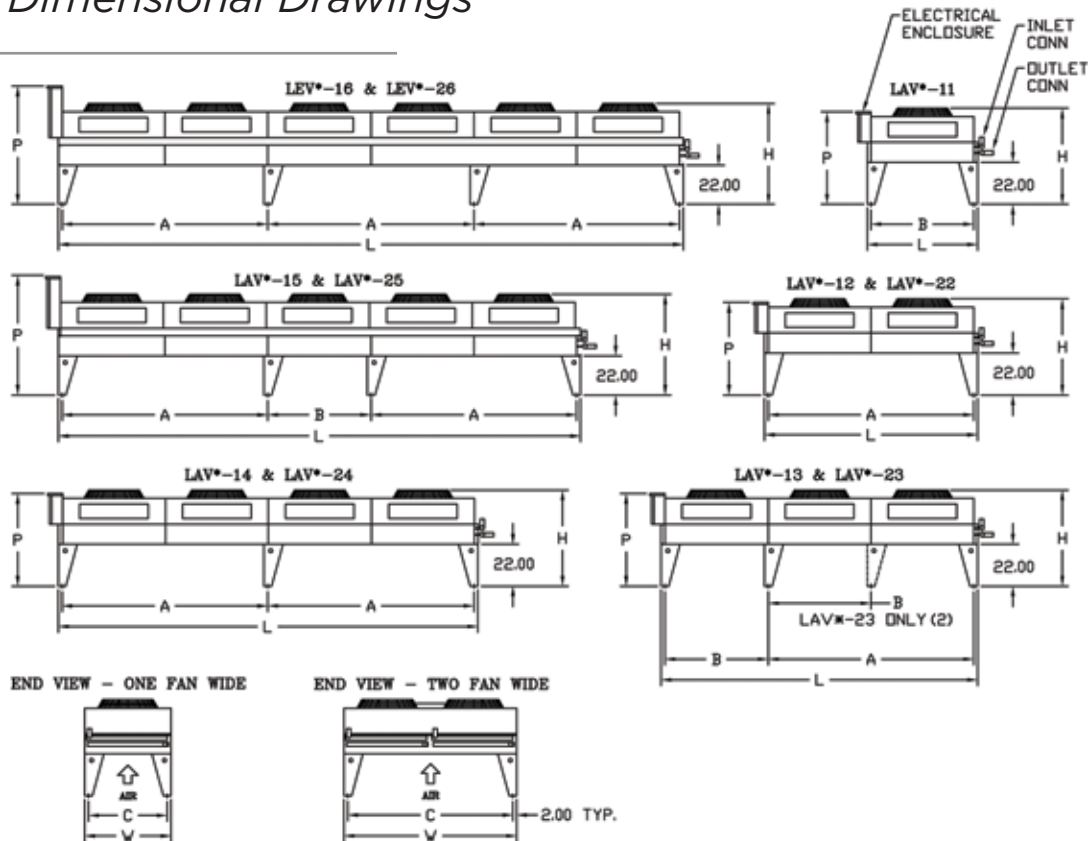
Levitor II Air-Cooled Condenser

Electrical Motor Watts Data

FAN MOTOR COMBINATION (kW)											
MODEL	A	B	C	E	F	MODEL	A	B	C	E	F
11208	0.90	0.61	1.07	0.27	1.17	11408	0.94	0.63	1.15	0.29	1.22
11210	0.91	0.61	1.08	0.28	1.17	11410	0.96	0.63	1.17	0.29	1.24
11212	0.92	0.61	1.09	0.28	1.18	11412	0.98	0.64	1.20	0.30	1.27
11308	0.92	0.61	1.10	0.28	1.19						
11310	0.93	0.62	1.13	0.28	1.21						
11312	0.94	0.62	1.15	0.29	1.22						

These values apply to a 230/460 volt single fan unit and need to be multiplied by the approximate number of fans for larger units.

Dimensional Drawings



	ONE FAN WIDE							CONNECTIONS OD IN(1)	
	L	W	H	P	A	B	C	INLET	OUTLET
LAV*-11***	58	45-1/4	54	49	-	54	41-1/4	1-3/8	1-3/8
LAV*-12***	112	45-1/4	54	49	108	-	41-1/4	1-5/8	1-5/8
LAV*-13***	166	45-1/4	54	49	108	54	41-1/4	2-1/8	2-1/8
LAV*-14***	220	45-1/4	54	49	108	-	41-1/4	2-1/8	2-1/8
LAV*-15***	274	45-1/4	58-1/2	65	108	54	41-1/4	2-1/8	2-1/8
LEV*-16***	328	45-1/4	58-1/2	65	108	-	41-1/4	2-5/8	2-5/8

	TWO FANS WIDE							CONNECTIONS OD IN(1)	
	L	W	H	P	A	B	C	INLET	OUTLET
LAV*-22***	112	90-1/2	54	49	108	-	86-1/2	(2)1-5/8	(2)1-5/8
LAV*-23***	166	90-1/2	54	49	108	54	86-1/2	(2)2-1/8	(2)2-1/8
LAV*-24***	220	90-1/2	54	49	108	-	86-1/2	(2)2-1/8	(2)2-1/8
LAV*-25***	274	90-1/2	58-1/2	65	108	54	86-1/2	(2)2-1/8	(2)2-1/8
LEV*-26***	328	90-1/2	58-1/2	65	108	-	86-1/2	(2)2-5/8	(2)2-5/8

NOTE:

* Indicates fan/motor combination.

***Indicates Rows & FPI. 'H' value includes standard 22" legs. (1) Connections are approximate. Exact size is determined by computerized circuiting program. (2) 1 x 3 has six legs; 2 x 3 has eight legs.

Levitor II Air-Cooled Condenser

LAVB Performance Data

ONE FAN WIDE														
MODEL	TOTAL HEAT OF REJECTION (MBH)								AIR FLOW (CFM)	CEC TITLE 24 COMPLIANT	CONDENSER CHARGE R-404A (LBS)		EST SOUND 10' (dBA)	SHIP WEIGHT (LBS)
	R-404A, R-507A				R-407A, R-448A / R-449A						SUMMER	WINTER		
	TEMPERATURE DIFFERENCE													
	10°F	15°F	20°F	25°F	10°F	15°F	20°F	25°F						
LAVB11208	27.5	41.2	54.9	68.7	26.5	39.7	52.9	66.1	6900	No	3	10	65	178
LAVB11210	32.0	48.1	64.1	80.1	31.2	46.7	62.3	77.9	6750	No	3	10	65	181
LAVB11212	35.8	53.6	71.5	89.4	35.0	52.5	70.0	87.5	6606	No	3	10	65	184
LAVB11308	38.4	57.6	76.8	96.0	37.5	56.2	74.9	93.7	6594	No	4	15	65	180
LAVB11310	43.7	65.6	87.4	109.3	43.3	64.9	86.5	108.1	6400	Compliant	4	15	65	185
LAVB11312	48.0	72.0	96.0	120.0	47.7	71.6	95.5	119.3	6217	No	4	15	65	190
LAVB11408	45.9	68.9	91.9	114.9	45.8	68.6	91.5	114.4	6224	Compliant	5	20	65	193
LAVB11410	51.3	76.9	102.6	128.2	51.7	77.5	103.4	129.2	6000	Compliant	5	20	65	200
LAVB11412	55.1	82.6	110.2	137.7	56.3	84.4	112.5	140.7	5799	No	5	20	65	207
LAVB12208	54.9	82.4	109.9	137.4	52.9	79.4	105.8	132.3	13800	No	6	19	68	346
LAVB12210	64.1	96.1	128.2	160.2	62.3	93.5	124.7	155.8	13500	No	6	19	68	352
LAVB12212	71.5	107.3	143.0	178.8	70.0	105.0	140.0	175.1	13212	No	6	19	68	358
LAVB12308	76.8	115.2	153.6	192.0	74.9	112.4	149.9	187.4	13188	No	8	29	68	362
LAVB12310	87.4	131.2	174.9	218.6	86.5	129.8	173.0	216.3	12800	Compliant	8	29	68	372
LAVB12312	96.0	144.0	192.0	240.0	95.5	143.2	190.9	238.6	12434	No	8	29	68	382
LAVB12408	91.9	137.8	183.8	229.7	91.5	137.3	183.1	228.8	12448	Compliant	10	38	68	386
LAVB12410	102.6	153.9	205.2	256.5	103.4	155.1	206.8	258.5	12000	Compliant	10	38	68	400
LAVB12412	110.2	165.3	220.3	275.4	112.5	168.8	225.1	281.3	11598	No	10	38	68	413
LAVB13308	115.2	172.8	230.4	288.0	112.4	168.6	224.8	281.0	19782	No	11	42	70	544
LAVB13310	131.2	196.8	262.3	327.9	129.8	194.6	259.5	324.4	19200	Compliant	11	42	70	559
LAVB13312	144.0	216.0	288.0	360.0	143.2	214.8	286.4	357.9	18651	No	11	42	70	574
LAVB13408	137.8	206.8	275.7	344.6	137.3	205.9	274.6	343.2	18672	Compliant	14	57	70	580
LAVB13410	153.9	230.8	307.8	384.7	155.1	232.6	310.2	387.7	18000	Compliant	14	57	70	600
LAVB13412	165.3	247.9	330.5	413.1	168.8	253.2	337.6	422.0	17397	No	14	57	70	620
LAVB14308	153.6	230.4	307.2	384.0	149.9	224.8	299.8	374.7	26376	No	14	56	71	820
LAVB14310	174.9	262.3	349.8	437.2	173.0	259.5	346.0	432.5	25600	Compliant	14	56	71	840
LAVB14312	192.0	288.0	384.0	480.0	190.9	286.4	381.8	477.3	24868	No	14	56	71	860
LAVB14408	183.8	275.7	367.6	459.5	183.1	274.6	366.1	457.7	24896	Compliant	19	75	71	873
LAVB14410	205.2	307.8	410.3	512.9	206.8	310.2	413.6	517.0	24000	Compliant	19	75	71	900
LAVB14412	220.3	330.5	440.7	550.9	225.1	337.6	450.1	562.7	23196	No	19	75	71	927
LAVB15308	192.0	288.0	384.0	479.9	187.4	281.0	374.7	468.4	32970	No	18	70	72	836
LAVB15310	218.6	327.9	437.2	546.5	216.3	324.4	432.5	540.7	32000	Compliant	18	70	72	861
LAVB15312	240.0	360.0	480.0	600.0	238.6	357.9	477.3	596.6	31085	No	18	70	72	886
LAVB15408	229.7	344.6	459.5	574.4	228.8	343.2	457.7	572.1	31120	Compliant	23	94	72	917
LAVB15410	256.5	384.7	512.9	641.2	258.5	387.7	517.0	646.2	30000	Compliant	23	94	72	950
LAVB15412	275.4	413.1	550.9	688.6	281.3	422.0	562.7	703.3	28995	No	23	94	72	983
LAVB16308	230.4	345.6	460.7	575.9	224.8	337.2	449.7	562.1	39564	No	22	85	73	1040
LAVB16310	262.3	393.5	524.7	655.8	259.5	389.3	519.0	648.8	38400	Compliant	22	85	73	1070
LAVB16312	288.0	432.0	576.0	720.0	286.4	429.5	572.7	715.9	37302	No	22	85	73	1100
LAVB16408	275.7	413.5	551.4	689.2	274.6	411.9	549.2	686.5	37344	Compliant	28	113	73	1110
LAVB16410	307.8	461.6	615.5	769.4	310.2	465.3	620.4	775.4	36000	Compliant	28	113	73	1150
LAVB16412	330.5	495.8	661.0	826.3	337.6	506.4	675.2	844.0	34794	No	28	113	73	1190
LAVB17308	268.8	403.1	537.5	671.9	262.3	393.5	524.6	655.8	46158	No	25	98	74	1314
LAVB17310	306.1	459.1	612.1	765.2	302.8	454.1	605.5	756.9	44800	Compliant	25	98	74	1349
LAVB17312	336.0	504.0	672.0	840.1	334.1	501.1	668.2	835.2	43519	No	25	98	74	1384
LAVB17408	321.6	482.5	643.3	804.1	320.4	480.5	640.7	800.9	43568	Compliant	32	131	74	1404
LAVB17410	359.0	538.6	718.1	897.6	361.9	542.8	723.7	904.7	42000	Compliant	32	131	74	1450
LAVB17412	385.6	578.4	771.2	964.0	393.9	590.8	787.7	984.6	40593	No	32	131	74	1497

NOTE: Capacity ratings are based on midpoint condensing temperature, 95°F entering air temperature and 0°F sub-cooling. The temperature difference is between the midpoint condensing temp. and the entering air temp. to the condenser. Not available with Quieter fan blades. See Corrections Factor Table on page 16. See Electrical Motor AMP Data Table on page 13.

Levitor II Air-Cooled Condenser

LAVB Performance Data

TWO FANS WIDE														
MODEL	TOTAL HEAT OF REJECTION (MBH)								AIR FLOW (CFM)	CEC TITLE 24 COMPLIANT	CONDENSER CHARGE R-404A (LBS)		EST SOUND 10' (dBA)	SHIP WEIGHT (LBS)
	R-404A, R-507A				R-407A, R-448A / R-449A						SUMMER	WINTER		
	TEMPERATURE DIFFERENCE				TEMPERATURE DIFFERENCE									
	10°F	15°F	20°F	25°F	10°F	15°F	20°F	25°F						
LAVB22208	109.9	164.8	219.8	274.7	105.8	158.7	211.6	264.5	27600	No	12	38	71	642
LAVB22210	128.2	192.3	256.4	320.5	124.7	187.0	249.3	311.6	27000	No	12	38	71	654
LAVB22212	143.0	214.6	286.1	357.6	140.0	210.1	280.1	350.1	26424	No	12	38	71	666
LAVB22308	153.6	230.4	307.2	384.0	149.9	224.8	299.8	374.7	26376	No	16	58	71	845
LAVB22310	174.9	262.3	349.8	437.2	173.0	259.5	346.0	432.5	25600	Compliant	16	58	71	865
LAVB22312	192.0	288.0	384.0	480.0	190.9	286.4	381.8	477.3	24868	No	16	58	71	885
LAVB22408	183.8	275.7	367.6	459.5	183.1	274.6	366.1	457.7	24896	Compliant	20	76	71	895
LAVB22410	205.2	307.8	410.3	512.9	206.8	310.2	413.6	517.0	24000	Compliant	20	76	71	925
LAVB22412	220.3	330.5	440.7	550.9	225.1	337.6	450.1	562.7	23196	No	20	76	71	953
LAVB23308	230.4	345.6	460.7	575.9	224.8	337.2	449.7	562.1	39564	No	22	84	73	1088
LAVB23310	262.3	393.5	524.7	655.8	259.5	389.3	519.0	648.8	38400	Compliant	22	84	73	1118
LAVB23312	288.0	432.0	576.0	720.0	286.4	429.5	572.7	715.9	37302	No	22	84	73	1148
LAVB23408	275.7	413.5	551.4	689.2	274.6	411.9	549.2	686.5	37344	Compliant	28	114	73	1185
LAVB23410	307.8	461.6	615.5	769.4	310.2	465.3	620.4	775.4	36000	Compliant	28	114	73	1225
LAVB23412	330.5	495.8	661.0	826.3	337.6	506.4	675.2	844.0	34794	No	28	114	73	1265
LAVB24308	307.2	460.7	614.3	767.9	299.8	449.7	599.6	749.4	52752	No	28	112	74	1665
LAVB24310	349.8	524.7	699.6	874.5	346.0	519.0	692.0	865.0	51200	Compliant	28	112	74	1705
LAVB24312	384.0	576.0	768.0	960.1	381.8	572.7	763.6	954.5	49736	No	28	112	74	1745
LAVB24408	367.6	551.4	735.2	919.0	366.1	549.2	732.2	915.3	49792	Compliant	38	150	74	1771
LAVB24410	410.3	615.5	820.7	1025.8	413.6	620.4	827.1	1033.9	48000	Compliant	38	150	74	1825
LAVB24412	440.7	661.0	881.4	1101.7	450.1	675.2	900.2	1125.3	46392	No	38	150	74	1880
LAVB25308	384.0	575.9	767.9	959.9	374.7	562.1	749.4	936.8	65940	No	36	140	75	1672
LAVB25310	437.2	655.8	874.5	1093.1	432.5	648.8	865.0	1081.3	64000	Compliant	36	140	75	1722
LAVB25312	480.0	720.0	960.1	1200.1	477.3	715.9	954.5	1193.2	62170	No	36	140	75	1772
LAVB25408	459.5	689.2	919.0	1148.7	457.7	686.5	915.3	1144.1	62240	Compliant	46	188	75	1859
LAVB25410	512.9	769.4	1025.8	1282.3	517.0	775.4	1033.9	1292.4	60000	Compliant	46	188	75	1925
LAVB25412	550.9	826.3	1101.7	1377.1	562.7	844.0	1125.3	1406.6	57990	No	46	188	75	1991
LAVB26308	460.7	691.1	921.5	1151.9	449.7	674.5	899.3	1124.2	79128	No	44	170	76	2035
LAVB26310	524.7	787.0	1049.4	1311.7	519.0	778.5	1038.0	1297.6	76800	Compliant	44	170	76	2095
LAVB26312	576.0	864.1	1152.1	1440.1	572.7	859.1	1145.4	1431.8	74604	No	44	170	76	2155
LAVB26408	551.4	827.1	1102.8	1378.5	549.2	823.8	1098.4	1373.0	74688	Compliant	56	226	76	2145
LAVB26410	615.5	923.3	1231.0	1538.8	620.4	930.5	1240.7	1550.9	72000	Compliant	56	226	76	2225
LAVB26412	661.0	991.5	1322.0	1652.6	675.2	1012.8	1350.4	1688.0	69588	No	56	226	76	2305
LAVB27308	537.5	806.3	1075.1	1343.8	524.6	786.9	1049.2	1311.5	92316	Compliant	50	196	77	2655
LAVB27310	612.1	918.2	1224.2	1530.3	605.5	908.3	1211.1	1513.8	89600	No	50	196	77	2725
LAVB27312	672.0	1008.1	1344.1	1680.1	668.2	1002.2	1336.3	1670.4	87038	No	50	196	77	2795
LAVB27408	643.3	964.9	1286.6	1608.2	640.7	961.1	1281.4	1601.8	87136	Compliant	64	262	77	2835
LAVB27410	718.1	1077.1	1436.2	1795.2	723.7	1085.6	1447.5	1809.4	84000	Compliant	64	262	77	2925
LAVB27412	771.2	1156.8	1542.4	1928.0	787.7	1181.6	1575.4	1969.3	81186	No	64	262	77	3015

CORRECTION FACTORS TABLE

REFRIGERANTS	MULTIPLY R-404A BY CAPACITY FACTOR	CHARGE CORRECTION FACTOR	
		SUMMER	WINTER
R-404A	1.00	1.00	1.00
R-134a	0.97	1.17	1.11
R-410A	1.02	1.02	1.03
R-22	1.02	1.14	1.09
R-407A	See R-407A Chart	1.10	1.08
R-407C	0.98 x R-407A	1.09	1.07
R-448A / R-449A	See R-448A / R-449A Chart	1.06	1.04

NOTE: Capacity ratings are based on midpoint condensing temperature, 95°F entering air temperature and 0°F sub-cooling. The temperature difference is between the midpoint condensing temp. and the entering air temp. to the condenser.

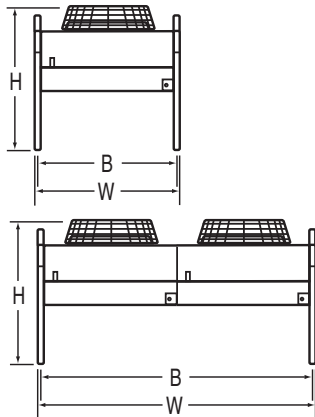
For units using 380/3/50, multiply capacity by 0.90.

See Electrical Motor AMP Data Tables on page 13.

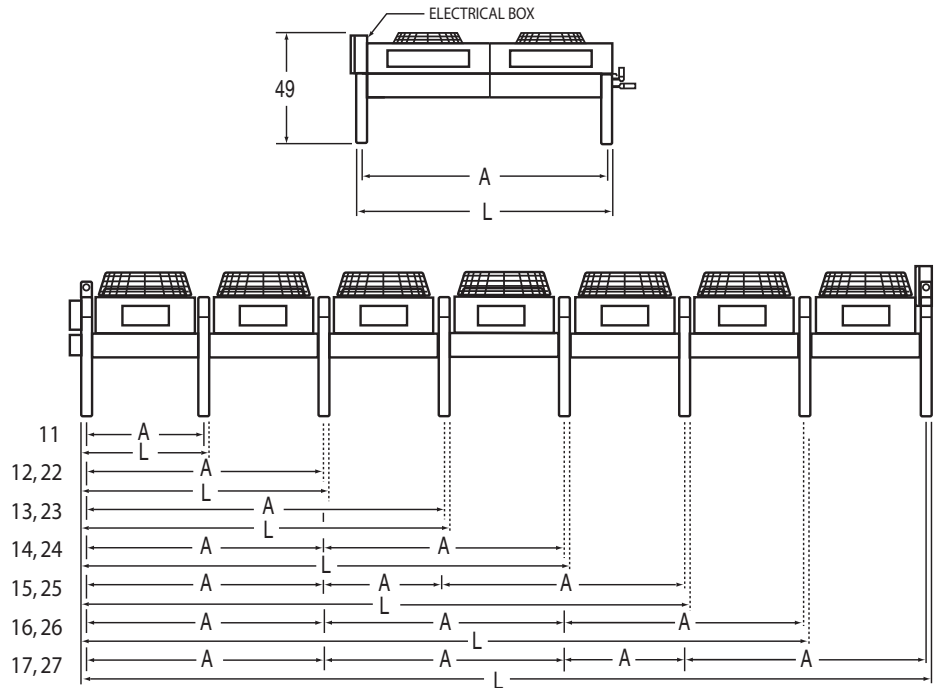
Levitor II Air-Cooled Condenser

Dimensional Drawings (for B Fan Models)

Header End View



Side Views



DIMENSIONAL DATA

						CONNECTIONS OD IN. ⁽¹⁾	
	L	W	H	A	B	INLET	OUTLET
LAVB-11***	39	45-1/4	41-1/4	36	43-1/4	1-1/8	1-1/8
LAVB-12***	75	45-1/4	41-1/4	72	43-1/4	1-3/8	1-3/8
LAVB-13***	111	45-1/4	41-1/4	108	43-1/4	1-3/8	1-3/8
LAVB-14***	147	45-1/4	41-1/4	72/72	43-1/4	1-5/8	1-5/8
LAVB-15***	183	45-1/4	41-1/4	72/36/72	43-1/4	2-1/8	2-1/8
LAVB-16***	219	45-1/4	41-1/4	72/72/72	43-1/4	2-1/8	2-1/8
LAVB-17***	262	45-1/4	41-1/4	72/72/36/72	43-1/4	2-5/8	2-5/8
LAVB-22***	75	87-5/8	41-1/4	72	85-5/8	1-3/8	1-3/8
LAVB-23***	111	87-5/8	41-1/4	108	85-5/8	1-3/8	1-3/8
LAVB-24***	147	87-5/8	41-1/4	72/72	85-5/8	1-5/8	1-5/8
LAVB-25***	183	87-5/8	41-1/4	72/36/72	85-5/8	2-1/8	2-1/8
LAVB-26***	219	87-5/8	41-1/4	72/72/72	85-5/8	2-1/8	2-1/8
LAVB-27***	262	87-5/8	41-1/4	72/72/36/72	85-5/8	2-5/8	2-5/8

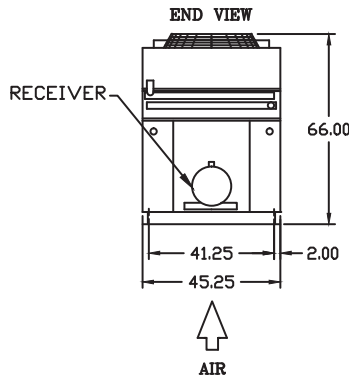
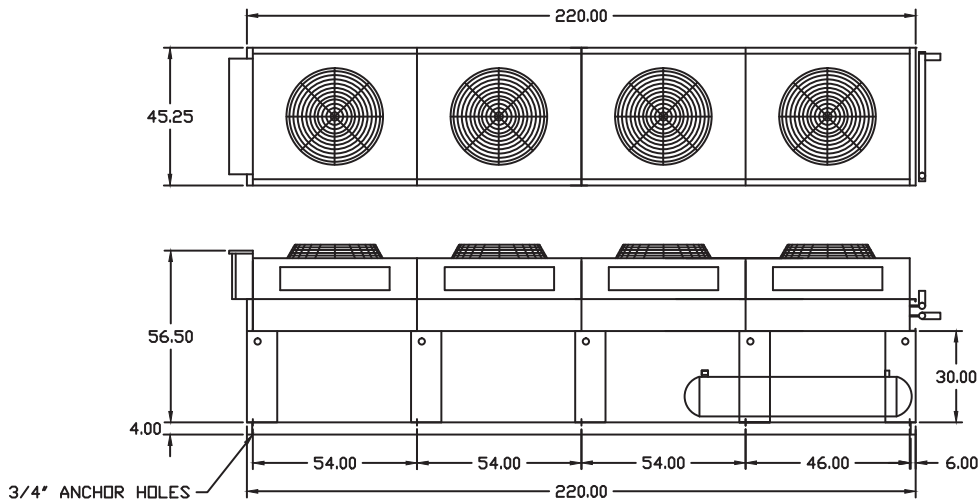
NOTE: Refer to pages 13 and 14 for B Motor electrical data.

***Indicates Rows & FPI. "H" value includes standard 18" legs.

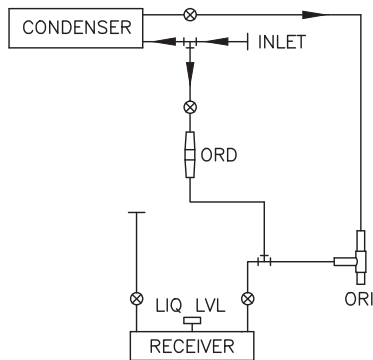
(1) Connections are approximate. Exact size is determined by computerized circuiting program.

Levitor II Air-Cooled Condenser

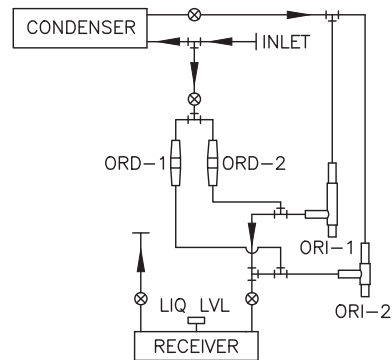
Mounted Receiver Diagram (One Receiver) - If Applicable



RECEIVER PIPING

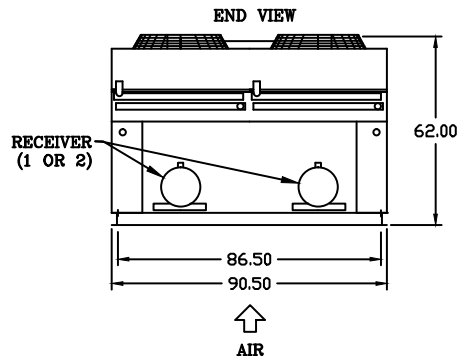
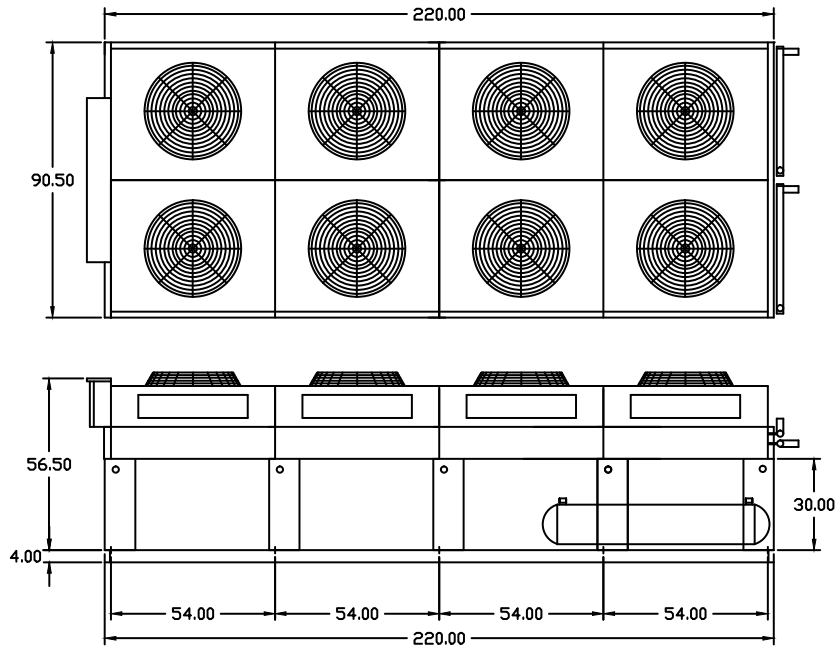


RECEIVER PIPING
DUAL ORI/ORD VALVES
REQUIRED FOR HIGHER CAPACITY MODELS

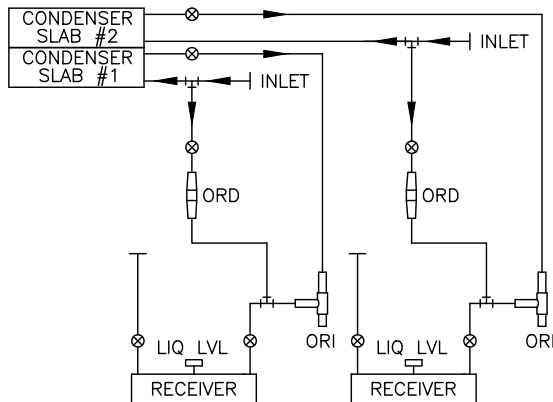


Levitor II Air-Cooled Condenser

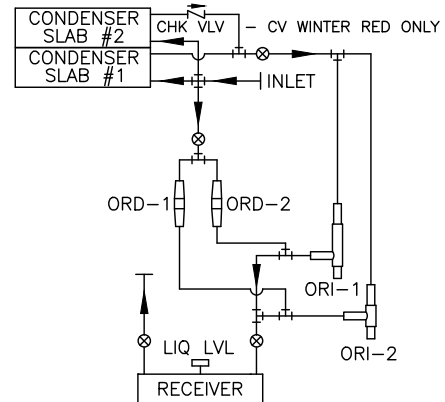
Mounted Receiver Diagram (Two Receivers) - If Applicable



RECEIVER PIPING
- TWO RECEIVERS -



RECEIVER PIPING
- ONE RECEIVER -
DUAL ORI/ORD VALVES



Levitor II Air-Cooled Condenser

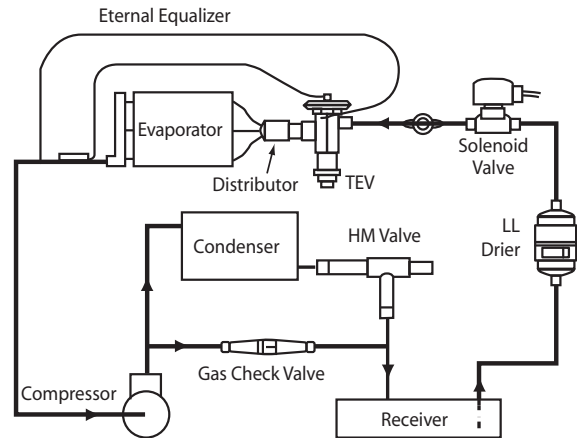
Low Ambient Controls (Head Pressure Control System)

Piping Schematic for Winter Control

Head Pressure Control for systems with air-cooled condenser is accomplished with two pressure regulating valves designed specifically for this type of application. When low ambient conditions are encountered during winter operation on air-cooled systems with a resultant drop in condensing pressure, the Head Pressure control's purpose is to hold back enough of the condenser liquid refrigerant so that some of the condenser surface is rendered inactive. This reduction of active condensing surface results in a rise in the condensing pressure and sufficient liquid line pressure for normal system operation.

Fan Cycling Controls

Factory installed and tested fan cycling control panels (optional, see page 22).



Mounted Receivers

Levitor is available with a mounted receiver for applications where a remote receiver is desired. Included in the option are a heavy-duty base, extended legs, receiver, a 3-way valve, relief valve(s), rotalocks, ball valves, and ORI/ORD valves. Optional heated, insulated and oversized receivers available.

ADDITIONAL UNIT WEIGHTS

# OF FANS	# OF RECEIVERS	
	1	2
1 x 1	350	550
1 x 2	440	640
1 x 3	530	730
1 x 4	620	820
1 x 5	820	1120
1 x 6	910	1210
1 x 7	1000	1300
2 x 2	520	700
2 x 3	620	800
2 x 4	720	910
2 x 5	910	1210
2 x 6	1020	1320
2 x 7	1120	1420

Receiver models are 12" taller than standard models. Add the above to weights.

RECEIVER CAPACITIES @ 80% FULL

SIZE	R-404A/R-507A (LBS)	R-407A (LBS)	R-448A / R-449A (LBS)
10-3/4" x 48"	114	126	121
10-3/4" x 60"	144	159	153
12-3/4" x 72"	245	270	260
14-3/4" x 96"	395	435	419

Levitor II Air-Cooled Condenser

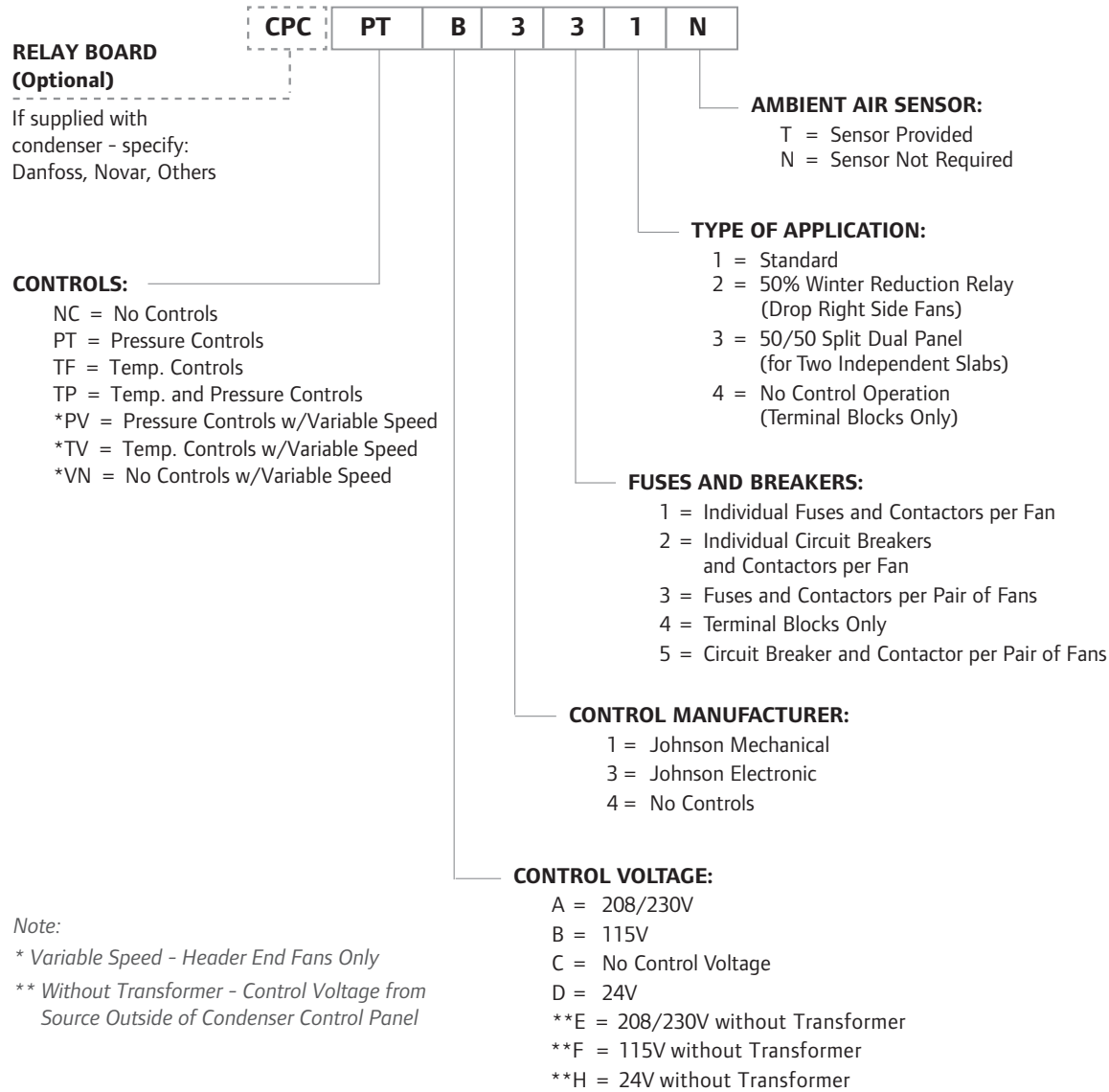
Mounted Receivers (Continued)

Includes ORI /ORD flooding valve, isolation ball valves, gauge-type liquid level indicator and dual relief valve.
Optional heat tape and insulation.

FACTORY MOUNTED RECEIVERS		
LEVITOR II MODEL	SIZE	RECEIVER SIZE
LAVB 24" FAN MODEL 1 Receiver	LAVB-11	10.75" x 48"
	LAVB-12	10.75" x 60"
	LAVB-13	10.75" x 60"
	LAVB-14	10.75" x 60"
	LAVB-15	10.75" x 60"
	LAVB-16	10.75" x 60"
	LAVB-17	12.75" x 72"
LAVB 24" FAN MODEL 1 Receiver	LAVB-22	(1) 10.75" x 60"
	LAVB-23	(1) 10.75" x 60"
	LAVB-24	(1) 12.75" x 72"
	LAVB-25	(1) 12.75" x 72"
	LAVB-26	(1) 12.75" x 72"
	LAVB-27	(1) 12.75" x 72"
LAVB 24" FAN MODEL 2 Receivers for Independent Slab Operation	LAVB-22	(2) 10.75" x 60"
	LAVB-23	(2) 10.75" x 60"
	LAVB-24	(2) 10.75" x 60"
	LAVB-25	(2) 10.75" x 60"
	LAVB-26	(2) 10.75" x 60"
	LAVB-27	(2) 12.75" x 72"
LAV-LEV 30" FAN MODEL 1 Receiver	LAV*-11	10.75" x 60"
	LAV*-12	10.75" x 60"
	LAV*-13	10.75" x 60"
	LAV*-14	10.75" x 60"
	LAV*-15	12.75" x 72"
	LAV*-16	12.75" x 72"
LAV-LEV 30" FAN MODEL 1 Receiver	LAV*-22	(1) 10.75" x 60"
	LAV*-23	(1) 12.75" x 72"
	LAV*-24	(1) 12.75" x 72"
	LAV*-25	(1) 12.75" x 72"
	LAV*-26	(1) 12.75" x 72"
LAV-LEV 30" FAN MODEL 2 Receivers for Independent Slab Operation	LAV*-22	(2) 10.75" x 60"
	LAV*-23	(2) 10.75" x 60"
	LAV*-24	(2) 10.75" x 60"
	LAV*-25	(2) 12.75" x 72"
	LAV*-26	(2) 12.75" x 72"

Levitor II Air-Cooled Condenser

Control Panel Nomenclature



Levitor II Air-Cooled Condenser

Standard Fan Cycling/Control Arrangements

- Electronic temperature control cycles fans in response to entering air temperature. Set points and differential for each step are adjustable.
- Electronic pressure control with single point pressure transducer cycles fans in response to condenser pressure. Set points and differential for each step are adjustable.
- Thermal Pressure Electronic temperature control cycle fans in response to entering air temperature, except for header end fan(s). Header end fan(s) are controlled by pressure control.
- Variable Speed Control-Header end fan(s) are controlled with a speed controller in response to head pressure.
- Fan Cycling Sequence-Fans are cycled off individually or side-by-side in pairs in sequence from the end opposite the header to the header end. Header end fans run continuously if compressors are operating.

Control Panel

- Standard weather resistant enclosure is mounted on the opposite end of the unit when looking at the headers.
- Control power is 24, 115 or 230 volts. A transformer is factory installed when required.
- Fan contactor with branch circuit fuse protection. Each motor or bank of motors protected by fuses.
- Disconnect not included, but may be required to meet local codes.

Optional Arrangements

- Fan motor contactor and fuses only.
- Fan motor contactor and fuses only which operate via a customer specified solid state board. Circuit board is factory mounted and wired.
- 50/50 split with two fan wide models. Each side is controlled separately with individual control panels on each side.
- 50% winter reduction with two fan wide models. The right side fans are isolated in winter. Fans are locked out via a relay or switch during shutdown.
- Consult Price List for additional options.

Fan Cycling Sequence

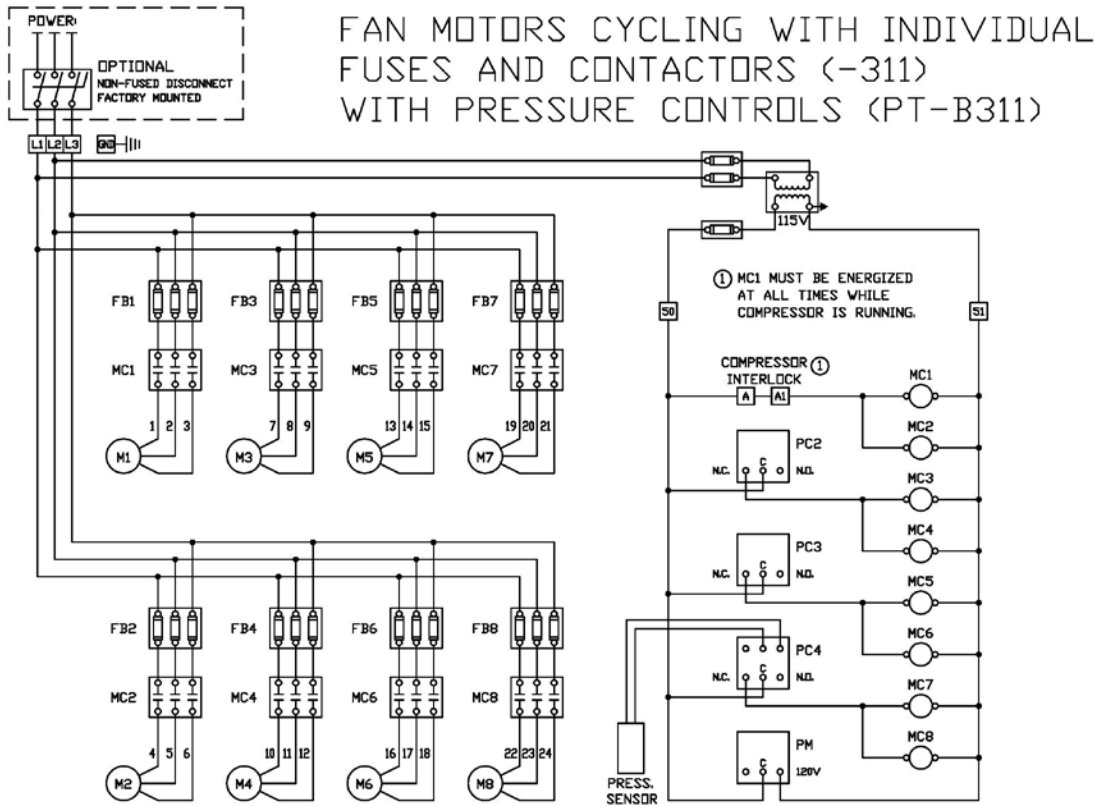
TABLE A

CAPACITY MULTIPLIER WITH HEADER FANS RUNNING	1	2	3	4	5	6	7	8	9	10	11
1.00	0.55	0.40	0.33	0.28	0.24	0.55	0.40	0.33	0.28	0.24	

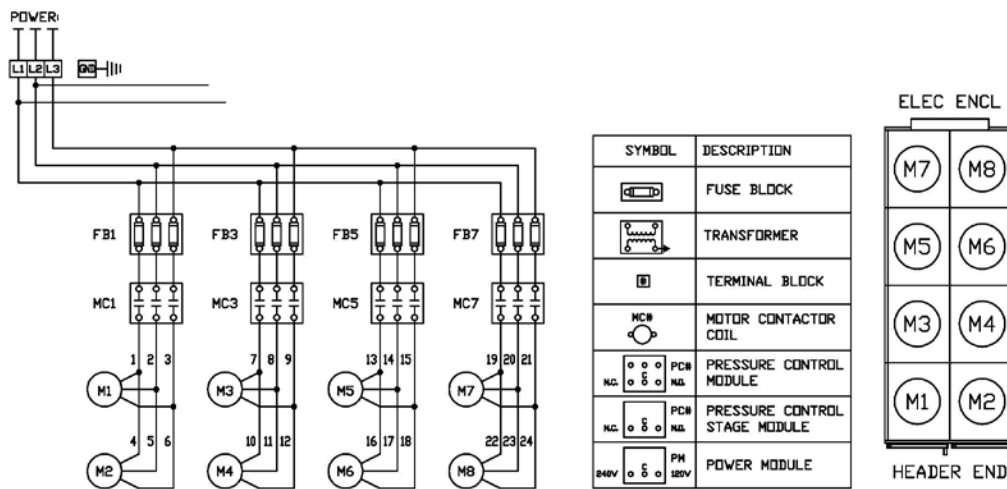
NOTE: Data given in Table "A" is based on zero wind velocity. If condensers are subjected to wind effect, these multipliers will increase.

Levitor II Air-Cooled Condenser

Wiring Diagrams



FAN MOTORS CYCLING WITH FUSES AND CONTACTORS IN PAIRS (-331)



LEVITOR II AIR-COOLED CONDENSER

Specifications subject to change without notice.



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