



LV Series are 1-6 Ton Single Compressor Units in Vertical, Horizontal and Counterflow Configurations. These attach only to a Fluid Cooler for cooling, Water Cooled, Building Loops. Remote DX condensers are not available with these systems.

DXair Pool Dehumidifiers

LV Series 1/2 to 6 Ton

G-60 Galvanized

The option-rich DXair LV Series pool dehumidifier has one of the smallest cabinets in the industry, making it a great choice for replacement and new construction projects.



Made in
the U.S.A.



The perfect balance of water and air.



Table of Contents

PERFORMANCE DATA.....	3
DXAIR POOL DEHUMIDIFIERS.....	4
ADVANTAGES OF DXAIR TECHNOLOGY	4
LV MODEL 007 - 070.....	4
FEATURES, FUNCTIONS AND BENEFITS	4
Cabinet	4
Quiet Operation	5
Serviceability	5
Unit Configurations	5
Filter Racks and Options	5
FAN MOTOR.....	6
Hanging Brackets	6
Refrigerant Circuit.....	6
Evaporator Coil and DuoGuard™ (Option).....	7
Blower Housing	7
Unit Protection Module	7
UPM CONTROL BOARD FEATURES	7
ADDITIONAL OPTIONS	8
Hot Gas Reheat.....	8
Indoor Pool Dehumidifying During Winter Months	9
UNIT CONFIGURATION DIAGRAMS.....	10
Systems	11
TYPICAL UNIT INSTALLATION	11
Unit Location	11
Vertical Unit Installation	11
Horizontal Unit Installation	11
Ductwork and Sound Attenuation Considerations.....	12
Piping.....	13
Condensate Drain Piping.....	13
Operating Limits.....	13
UNIT OPERATING LIMITS—LV MODEL	14
ANTIFREEZE CORRECTION DATA	15
WATERSIDE PRESSURE DROP	15
CAPACITY DATA.....	16
LV007 (300 nominal CFM).....	16
LV009 (350 nominal CFM).....	17
LV012 (400 nominal CFM).....	18
LV015 (500 nominal CFM).....	19
LV018 (650 nominal CFM).....	20
LV024 (850 nominal CFM).....	21
LV030 (950 nominal CFM).....	22
LV036 (1200 nominal CFM).....	23
LV041 (1150 nominal CFM).....	24
LV042 (1500 nominal CFM).....	25
LV048 (1600 nominal CFM).....	26
LV060 (2000 nominal CFM).....	27
LV070 (2200 nominal CFM).....	28
UNIT ELECTRICAL DATA.....	29
Standard Blower Motor.....	29
ECM Constant Torque	30
BLOWER PERFORMANCE CFM.....	31
Standard PSC Blower Motor.....	31
ECM Constant Torque	32
PHYSICAL DATA.....	33
HORIZONTAL CABINET CORNER WEIGHTS	34
VERTICAL UNIT DIMENSIONS	35
HORIZONTAL UNIT DIMENSIONS	36
COUNTERFLOW UNIT DIMENSIONS.....	37
GUIDE SPECIFICATION	38
UNIT LOCATION.....	41
SOUND	41
NEGATIVE PRESSURE	41
Duct Air Delivery System.....	41

PERFORMANCE DATA

Model	Fluid Flow Rate	Entering Water Temperatures			
		86°F		77°F	
		Capacity and Efficiency Data – PSC Motor (Standard)			
		Cooling Capacity (WLHP)	EER (WLHP)	Cooling Capacity (GLHP)	EER (GLHP)
LV007	2.0	6,100	12.20	6,800	15.10
LV009	2.5	8,200	12.40	8,700	14.60
LV012	3	10,900	12.20	11,800	14.10
LV015	4	14,200	12.80	14,200	14.60
LV018	5.0	19,400	13.40	21,200	15.80
LV024	6	23,400	13.40	25,000	15.50
LV030	7	29,200	13.20	31,000	14.70
LV036	9	37,900	14.70	39,900	16.90
LV041	9	39,500	13.10	41,200	14.30
LV042	10	40,000	13.70	42,600	14.80
LV048	12	45,900	13.00	48,800	14.90
LV060	15	57,900	13.00	60,100	14.10
LV070	16	64,000	13.30	66,400	15.00
LV015	4	13,700	13.90	14,400	16.20
LV018	5.0	19,700	14.40	21,500	15.90
LV024	6	23,800	14.50	25,400	16.80
LV030	7	30,000	15.00	31,600	17.50
LV036	9	38,200	15.40	40,200	17.70
LV041	9	40,500	13.60	42,200	15.90
LV042	10	40,900	14.10	43,500	16.30
LV048	12	46,800	14.20	49,600	16.30
LV060	15	59,000	14.30	61,100	16.40
LV070	16	65,200	14.60	67,600	16.60



LV SERIES POOL DEHUMIDIFIERS



DXAIR POOL DEHUMIDIFIERS

Specializing in efficient green technology for residential and commercial pool dehumidification systems, DXair is always on the forefront of product development and innovative design to optimize the performance of the dehumidifiers. Our products are designed and manufactured to the highest quality, reflecting the no-compromise standards for which DXair is renowned in order to provide our customers with the highest level of satisfaction and comfort. The variety of options, energy efficiency, and uncompromising quality of all DXair products makes them the ideal choice for the commercial new construction market and the ease of designing into tight retrofit spaces of buildings.

ADVANTAGES OF DXAIR TECHNOLOGY

- Low installation costs
- Lower operating costs
- Flexibility and comfort
- Energy efficiency
- Space savings
- Superior quality
- Quiet operation



LV MODEL 007 - 070

- 13 Models from 1/2 through 6 tons
- Horizontal, Vertical, and Counterflow Configurations*

*Not all model sizes are available in all configurations. Consult the charts found in this catalog for details.

FEATURES, FUNCTIONS AND BENEFITS

Cabinet

The LV unit cabinetry is constructed using heavy-gauge, G-60 galvanized steel.

All interior surfaces are lined with 1/2" thick, 1.5 lb./cu.ft. density, Micromat insulation for thermal insulation and acoustical attenuation. This insulation is non-combustible, non-hydroscopic and does not support fungal growth. Insulation meets NFPA 90A and 90B for fire protection and is certified to meet the GREENGUARD® Indoor Air Quality Standard for Low Emitting Products.

Protection against corrosion is a feature in the LV unit. A stainless steel drain pan will last the lifetime of the unit and resist corrosion and cracking that may occur with steel or plastic materials.



MERV-8 or MERV-13
Filter Option



2" 4-Sided Filter
Rack Option



Schrader
Charging Valves



Closed Cell Foam
Insulation (Optional)

Quiet Operation

Noise reduction is a critical consideration of the unit design. All LV units have a distinct floating base pan; the compressor is mounted on a heavy steel plate which rests on a high density rubber pad on the base of the unit. In addition, compressors are mounted on rubber grommets. This double isolation, distinct to DXair equipment, is standard in all LV units preventing vibration and noise transmission from the compressor to the unit structure, resulting in exceptionally quiet operation.

The LV offers optional 1/2" thick, closed cell foam insulation to help aid indoor air quality (IAQ) and to further attenuate low frequency noise from the compressor compartment. The closed cell foam insulation option is available in all unit sizes. For additional sound attenuation, an optional compressor blanket is available on unit sizes 024 and above.

Serviceability

All units are designed to be serviced from the front of the unit. Schrader valves for high and low pressure gauges and the electrical box components are easily accessible for diagnosing and servicing the unit. Insulated bulkheads in all units separate the compressor section from the blower section, allowing the unit to be serviced during operation.

Large removable panels aid in servicing the unit, when necessary. Separate electrical knockouts in the unit corner post allow for easy and safe routing of high and low voltage lines to the inside of the cabinet.

Unit Configurations

All units are available in horizontal, vertical and counterflow configurations. Additionally, several options of return air and supply air are offered as standard, providing configuration flexibility.

Filter Racks and Options

Units come standard with a 1" filter rack and construction filter. A 2" four-sided filter rack and pleated filter is optional and greatly improves air filtration. Filter doors allow for easy routine maintenance and changing of the air filter. A 1" return duct collar is integral to the filter rack eliminating the need for field mounted duct collars.

Constant Airflow
ECM OptionConstant Torque
ECM Option

2-Way Valve with Actuator



Coax Coil

FAN MOTOR

Permanent Split Capacitor Motors (PSC)

The standard motor for all LV model pool dehumidifiers is a PSC motor. For all models other than 575 V units, the supplied motor is a three speed motor. 575 V motors are single speed.

ECM Constant Torque Motor (Optional)

The LV's constant torque blower motor option offers improved efficiency (up to 33%) over the standard PSC motor. This motor is similar in function to a PSC, but can handle up to 1 in.w.g. external static pressure making it a wise choice for high filtration applications. These motors are available in unit sizes 015 to 070. This ECM motor option is an excellent choice for retrofit. The constant-torque motors do not require a neutral wire for 460/3 power.

Hanging Brackets

All horizontal units come standard with hanging bracket kits for suspending the unit from field supplied hanger rods. These kits include heavy-duty steel brackets and rubber grommets for sound and vibration isolation from the building structure.

Refrigerant Circuit

LV units are designed using the optimum combination of compressor, water and air coils to provide peak performance. LV units are rated to withstand 600 PSIG working refrigerant pressure and 400 PSIG working water pressure.

Heavy-duty compressors are used in all units. Rotary, reciprocating and scroll compressors offer optimum performance for each unit size.

Refrigerant to water heat exchangers are coaxial tube-in-tube type providing a robust construction, ensuring years

of trouble free operation. Coaxial coils are selected and designed for peak performance, offering the best combination of low water pressure drop and maximum heat transfer in both the cooling and heating modes. Standard coaxial coils have a copper interior water tube and a steel outer shell. Optional Cupro-Nickel coils are available for applications where the water is of lower quality.

Air side refrigerant coils have copper tubes, aluminum fins and side plates to prevent corrosion.

Air coils are state of the art, employing lanced fin and rifled tubing for maximum heat transfer. Large face areas result in lower face velocity reducing sound while ensuring high latent heat removal for maximum dehumidification in the cooling mode.

Refrigerant flow to the air coil is metered by Thermal Expansion Valves to vary the flow of refrigerant depending on the load. TXV's provide unit optimization and a more stable control over a wider range of operating conditions .



Compressors



Tin Plated with Coated Fin Evaporator Coil (Optional)



Blower Housing (with Removable Inlet Ring)

Evaporator Coil and DuoGuard™ (Option)

Air handling sections come standard with a copper tube aluminum fin evaporator coil. Available as an option is the DuoGuard™ evaporator coil protection system. DuoGuard™ Protection® - Tin Electro-Plated Copper Tubing with High-Tech Polymer Coated Aluminum Fins will aid in protecting the evaporator coil from most forms of corrosive elements in the airstream. The tin plating provides a best-in-class protection of the copper tubing from formicary corrosion while the fin coating provides protection against salt spray and other corrosive elements. DuoGuard™ protected coils are able to exceed 1000 hours salt spray per ASTM standard B-117.

Blower Housing

A removable inlet ring is a standard feature of the blower housing on all unit sizes. The removable inlet ring helps facilitate motor removal without having to remove the fan housing from the cabinet.

Unit Protection Module

Each LV Model is factory provided with a Unit Protection Module (UPM) that controls the unit operation and monitors the safety controls that protect the unit. The UPM interfaces with the thermostat or direct digital controller. The main purpose of the UPM is to protect the compressors by monitoring the different states of switches and sensors. This module provides time delays and protects the unit against freezing of the water to refrigerant and air to refrigerant heat exchangers, as well as condensate overflow.

Safety controls include the following as standard:

- High pressure switch located in the refrigerant discharge line.
- Low pressure switch located in the unit refrigerant suction line.

- Condensate overflow protection sensor is standard and factory mounted in the drain pan of the unit.
- Standard low fluid temperature (freeze) protection sensor.
- Low air coil temperature (freeze) protection sensor disables the compressor when the refrigerant entering the air coil drops below 30°F (-1.1°C).

UPM CONTROL BOARD FEATURES

- **Condensate Overflow Protection** — The UPM controller continuously monitors the drain pan for high condensate water level, and if this exceeds normal operating levels, the compressor operation is interrupted to protect against drain pan overflow.
- **Anti-Short Cycle Timer** — 5 minute delay on break timer to prevent compressor short cycling.
- **Random Start** — Each controller has a unique random start delay ranging from 270 to 300 seconds after power is applied to the board. This will prevent the simultaneous start of multiple units after a power outage.
- **Low Pressure Bypass Timer** — The low pressure switch is bypassed for 120 seconds after a call for compressor operation to prevent nuisance low pressure lockouts during cold start-up in the heating mode (GEO systems only).
- **Brownout/Surge/Power Interruption Protection** — Prevents compressor operation should the voltage drop below 10% of unit rated value. The unit will restart once the voltage is within tolerance and the random start has timed out.
- **Malfunction (Alarm) Output** — The controller has a set of contacts for remote fault indication. This can be either a steady output or can be set to pulse with the



TXV Valve (Optional)



UPM Control Board

fault code. Two connections are available - one to provide a 24 volt output, the other to provide a dry contact.

- **Test Service Mode** — A dip switch setting is provided to reduce all time delay settings to 10 seconds maximum during troubleshooting for verification of unit operation.
- **LED Fault Indication** — Two LED indicators are provided as follows:
 - **Green:** Power LED indicates 18 – 30 VAC present at the board.
 - **Red:** Fault indicator with blink codes identifying the particular fault. This information is available via the malfunction (alarm) output contacts.
 - 1 Blink** - High Pressure
 - 2 Blanks** - Low Pressure
 - 3 Blanks** - Low Fluid Temperature (Freeze Protection)
 - 4 Blanks** - Condensate Overflow
 - 5 Blanks** - Brownout condition
- **Intelligent Reset**—If a fault condition is initiated, the 5 minute delay on break time period is initiated and the unit will restart after this delay expires. The UPM is configurable for either 2 or 4 fault occurrences before going into a hard lockout. The selection is made through a dip switch setting on the board. If the fault condition still exists or reoccurs twice or four times within one hour, the unit will go into a hard lockout and requires a manual lockout reset. A condensate overflow fault will, however, put the unit into a hard lockout immediately.
- **Lockout Reset**—A hard lockout can be reset by turning the unit thermostat off and then back on or by shutting off unit power at the circuit breaker. The method of reset is selectable by the dip switch on the board.

ADDITIONAL OPTIONS

- Blower monitor relay
- Compressor monitor relay
- Phase monitor
- Pump relay
- Fire alarm relay
- Fault LED light
- 50, 75 or 100 VA transformer option
- 40 Amp disconnect switch
- Single and three phase

Hot Gas Reheat

Hot gas reheat (HGR) allows the user to control space temperature and humidity levels within the conditioned space. Excessive moisture in the space can promote mold growth leading to damage in the structure or interior surfaces, as well as reducing the air quality and creating an unhealthy environment.

Possible causes of excess humidity could be a byproduct of the unit having to operate under a widely varying load, an oversized short cycling unit, a high percentage of unconditioned outside air being introduced into the space, a high latent load in the space or any location where humidity infiltration is a problem.

Typical unit control is by a wall mounted thermostat that senses temperature in the occupied space. By utilizing a humidistat in addition to the thermostat, LV units with Hot Gas Reheat are able to control the humidity levels in the space as well. The Hot Gas Reheat option allows cooling and dehumidification to satisfy both the thermostat and humidistat while preventing over-cooling of the space while in the dehumidification mode.

Once the thermostat reaches set point temperature, the humidity is above set point, the unit controller will energize the reheat valve operating the unit in hot gas reheat mode, first cooling and dehumidifying, then reheating the air (using hot refrigerant gas) before delivering it to the space. The unit operates as a dehumidifier by reheating the air along a constant sensible heat line, while the relative humidity of the leaving air is reduced. This option offers significant energy savings over reheating air with electric heating coils.

A hot gas reheat valve and a reheat coil are included in the refrigerant circuit.

In the reheat mode, the compressor discharge gas is diverted through the reheat valve to the reheat coil which is located downstream of the cooling coil. The superheated refrigerant gas reheats the air leaving the cooling coil. The hot refrigerant gas then passes through the water to refrigerant coil where it is condensed to a liquid. From this point the rest of the cooling cycle is completed. There are check valves to prevent refrigerant flow into the reheat coil during standard cooling cycles.

Indoor Pool Dehumidifying During Winter Months

It is important to remember that when in the reheat/dehumidification mode the DXair is cooling and reheating. A secondary means of heating the space during the dehumidification mode should be provided. For indoor pool environments, the indoor space temperature should be kept at least two (2) degrees F above the pool water temperature. If this is not done the warm pool water attempts to heat the space and the humidity levels increase exponentially. The DXair is normally sized to handle the design latent load moisture removal.

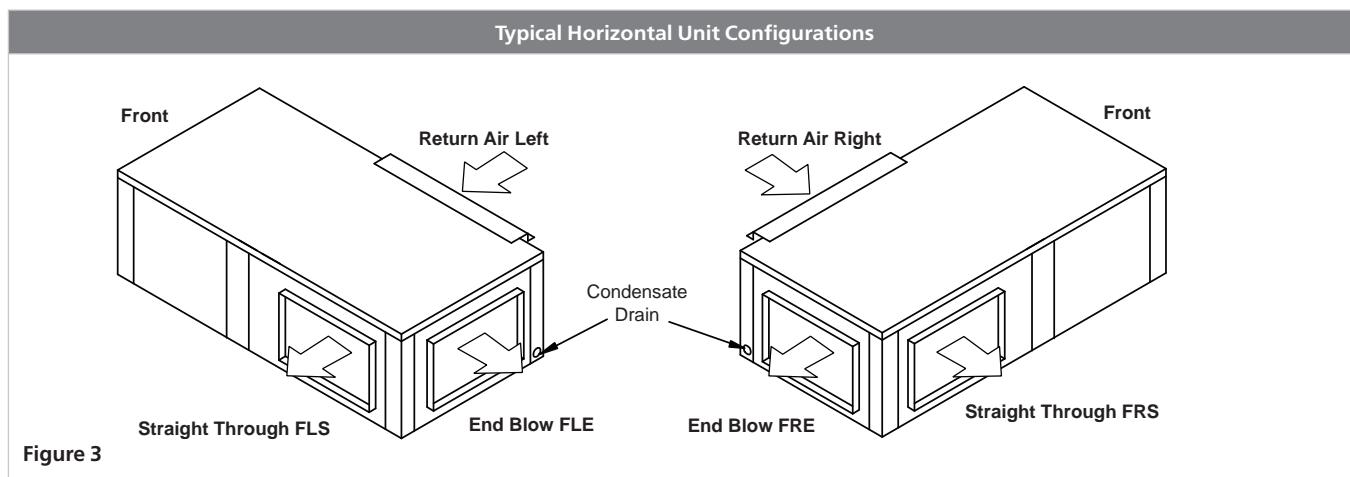
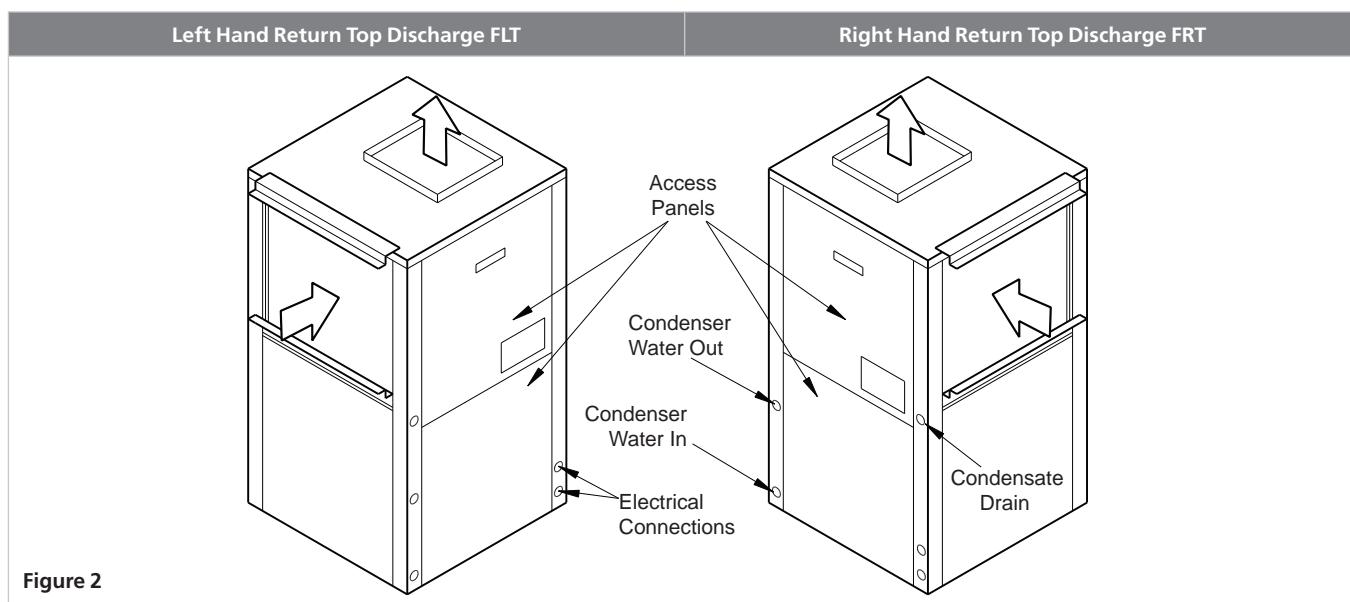
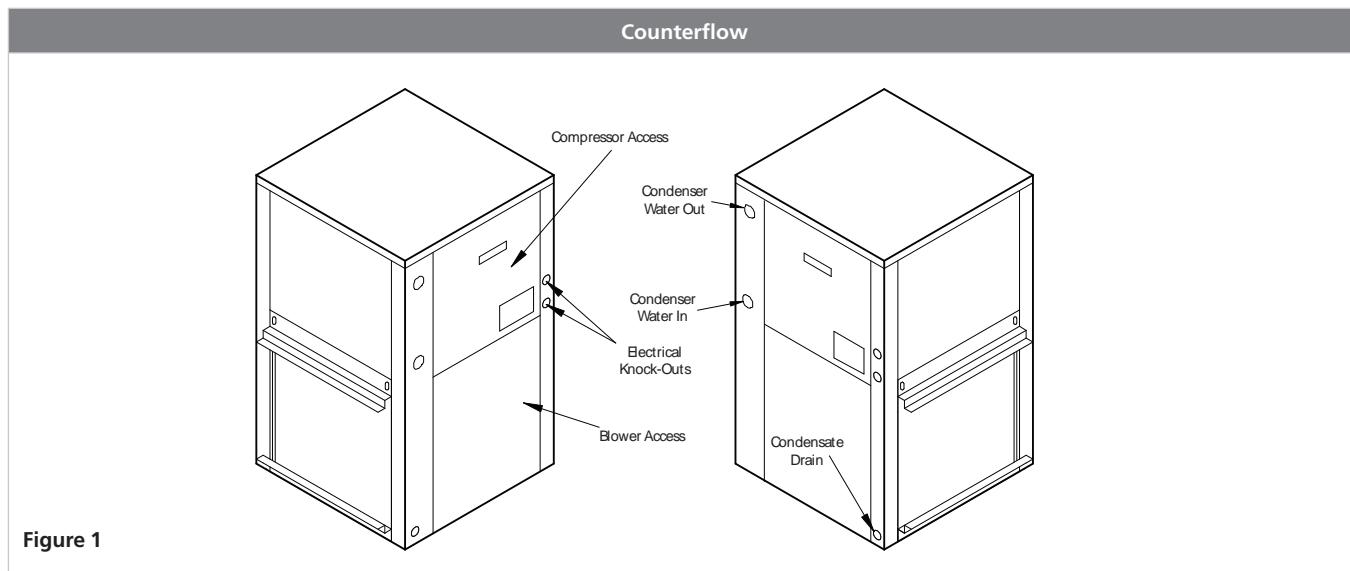


Protective coatings are highly recommended for all pool applications, due to the highly corrosive chemical environment.





UNIT CONFIGURATION DIAGRAMS



Systems

LV Models may be used in a variety of different applications depending on the system design.

TYPICAL UNIT INSTALLATION

Unit Location

Any mechanical device will, at some point in time require servicing and repair. With this in mind, sufficient space must be provided around the unit for service personnel to perform maintenance or repair.

Units are not designed for outdoor installation. Avoid locations where the unit may be exposed to freezing conditions or where the humidity levels could cause condensation on the unit panels, for example, when exposed to outdoor ambient conditions.

Vertical Unit Installation

Sufficient space must be provided for filter replacement and access to the compressor and blower for service.

Units should be set on a piece of rubber, neoprene or other vibration absorbing material at least 1/3" to 1/2" thick. The pad should extend 3/4" over the entire base of the unit.

Avoid direct line of sight to the unit. Install a sound baffle over any door that has a return air grille.

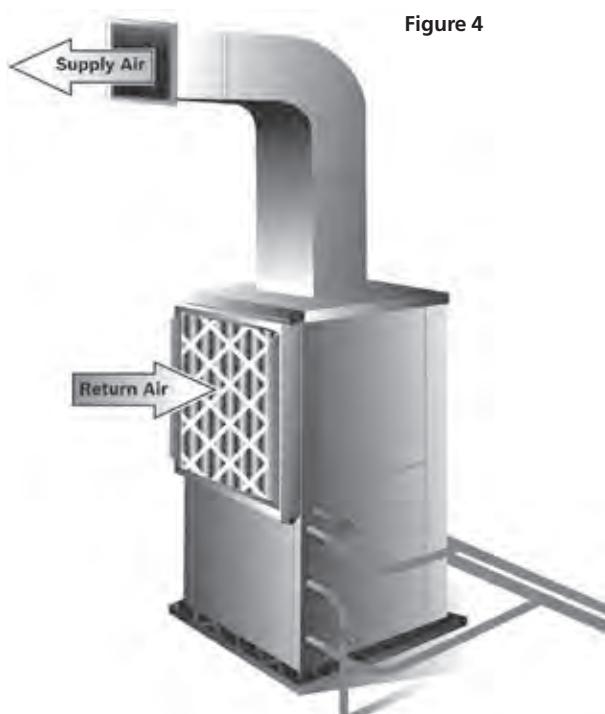


Figure 4

Horizontal Unit Installation

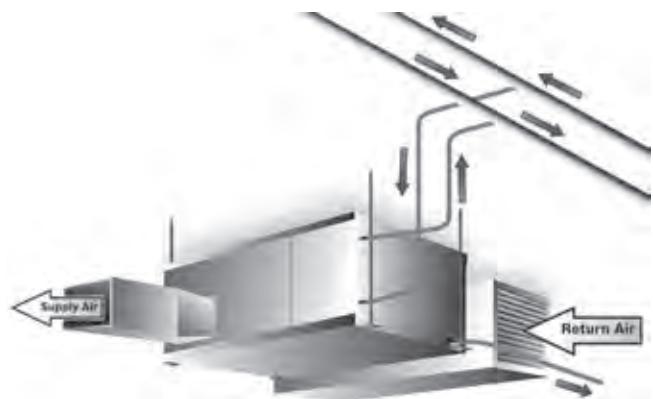


Figure 5

Horizontal units are typically suspended above the ceiling by four (field supplied) 3/8" threaded rods fastened to the unit by the factory supplied hanger bracket kits. The kits include rubber isolators to help prevent transmission of vibration and noise to the building structure. Units should be located directly below a structural member, so that it is securely anchored.

A horizontal unit should be positioned to allow for removal of the filters and access panels. Allow at least 18" clearance on each side of the unit for service and 36" in front of the unit for maintenance access. The filter needs to be slid out and sufficient space must be provided to allow this.

Do not install the unit above any piping or electrical raceways. The unit should be able to be removed to the floor without major rearrangement of other mechanical or ceiling components.



Ductwork and Sound Attenuation Considerations

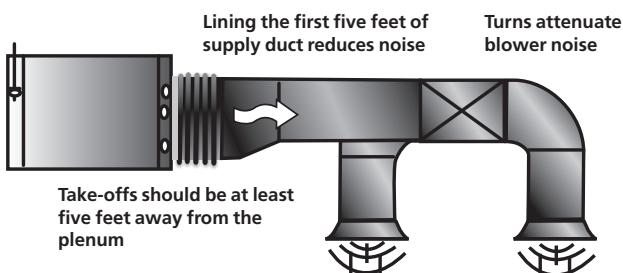


Figure 6: Supply Air Ducting

Sound is becoming an increasingly important factor in all HVAC installations. The LV models have been designed to minimize sound, but sound acoustical design plays an important part of the sound level in the space.

Most of the problems associated with HVAC generated sound can be avoided by paying close attention to duct design and equipment placement.

A discharge flange is provided on all horizontal unit models for fastening of ductwork. We recommend using a flexible collar between the discharge flange and the duct transformation to reduce vibration transmission from the cabinet and to simplify disconnection of the unit from the ceiling ductwork.

reduce vibration transmission from the cabinet and to simplify disconnection of the unit from the ductwork.

Sound is transmitted down the ductwork and it is important to avoid direct line of sight between the unit and the space, both on the return or supply side. To accomplish this, design the duct runs with two 90° turns.

As a general recommendation, duct interiors should have an acoustic / thermal lining of least 1/2" thick over the entire duct run or a minimum of the first 5 feet of the supply trunk.

Line the last five diameters of duct before each outlet with a 1" thick sound blanket. Line elbows and transition pieces, as well as a short distance upstream and downstream of the fittings.

Elbows, tees and dampers can create turbulence or distortion in the airflow. Using aerodynamic fittings will help in reducing this effect. Place a straight length of duct, 5 to 10 times the duct width, before the next fitting to smooth out airflow.

Diffusers that are located in the bottom of a trunk duct can also produce noise. Balancing dampers should be located several duct widths upstream from an air outlet. Ductwork should be mounted and supported using isolation devices that absorb vibration.

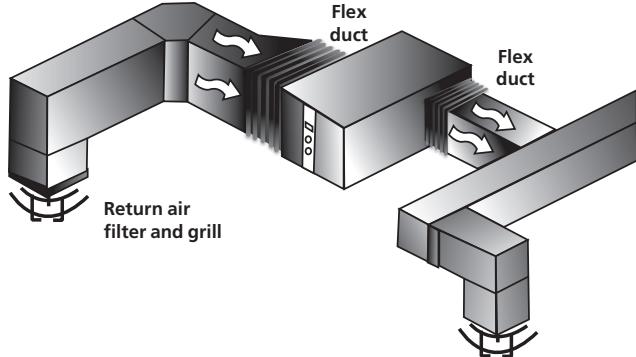


Figure 7: Return Air Ducting

Return air to the unit could be either free return or ducted. The filter rack is provided with a 1" flange should a ducted return be used. We recommend using a flexible collar between the return flange and the duct transformation to

Condensate Drain Piping

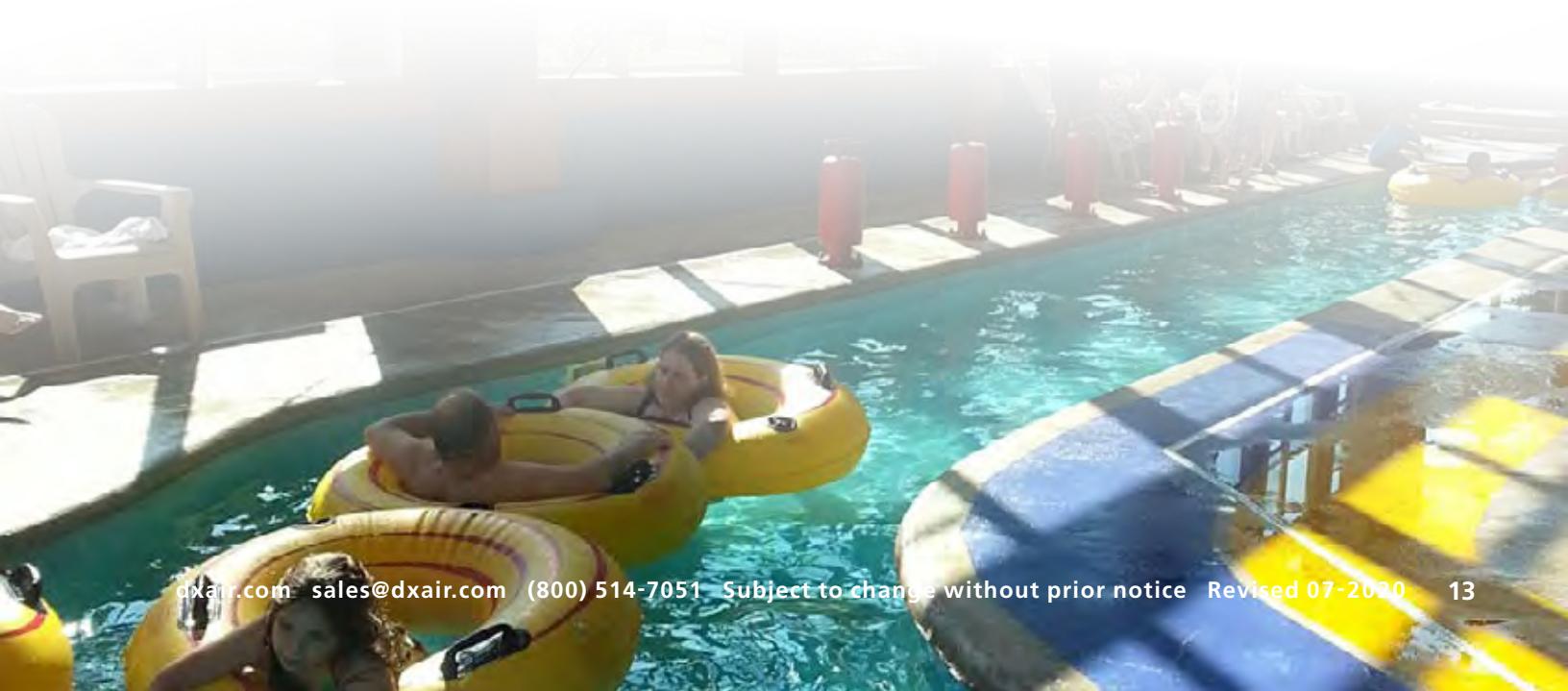
Condensate piping can be made of steel, copper or PVC pipe. In most cases, PVC pipe eliminates the need to wrap insulation around the pipe to prevent sweating.

A 3/4" FPT condensate drain connection is installed in the unit. The condensate piping must be trapped at the unit and pitched away from the unit not less than 1/4" per foot. A vent is required after the trap so that the condensate will drain away from the unit. The vent can also act as a cleanout if the trap becomes clogged. The condensate drain should not be directly piped to a drain/waste/vent stack. See local codes for the correct application of condensate piping to drains.

Operating Limits

LV Models are capable of operating over a wide range of conditions.

- Maximum and minimum fluid conditions are at unit rated flow rate.
- Maximum and minimum operating limits may not be combined. If one value is at either maximum or minimum, the other two should be at normal operating range.



**UNIT OPERATING LIMITS—LV MODEL**

Operating Limits – Cooling & Heating	Standard Unit
Cooling	
Minimum ambient air temperature °F	50
Maximum ambient air temperature °F	100
Minimum evaporator entering air db/wb °F	68/57
Rated air coil entering air db/wb °F	80/67
Maximum evaporator entering air db/wb °F	95/85
Minimum water coil entering fluid temperature °F	50
Water loop typical coil entering fluid range temperature °F	70/90
Maximum water coil entering fluid temperature °F	110
Minimum ambient air temperature °F	50
Maximum ambient air temperature °F	100
Minimum evaporator entering air db °F	50
Rated air coil entering air °F	68
Maximum evaporator entering air db °F	80
Normal water coil entering fluid range °F	50-80
Minimum water coil entering Fluid °F	50

ANTIFREEZE CORRECTION DATA

Antifreeze Correction					
Antifreeze Type	Antifreeze %	Cooling			WPD Correction Factor EWT 30 °F
		Total Cap.	Sens. Cap	Power	
Water	0	1.000	1.000	1.000	1.000
Propylene Glycol	5	0.997	0.997	1.004	1.060
	10	0.994	0.994	1.006	1.125
	15	0.990	0.990	1.009	1.190
	25	0.983	0.983	1.016	1.300
Methanol	5	0.997	0.997	1.003	1.060
	10	0.996	0.996	1.005	1.100
	15	0.994	0.994	1.008	1.140
Ethanol	5	0.998	0.998	1.002	1.160
	10	0.996	0.996	1.004	1.230
	15	0.992	0.992	1.006	1.280
	25	0.986	0.986	1.009	1.400
Ethylene Glycol	5	0.997	0.997	1.003	1.060
	10	0.995	0.995	1.004	1.120
	15	0.992	0.992	1.005	1.190
	25	0.988	0.988	1.009	1.330
	30	0.985	0.985	1.012	1.400

WATERSIDE PRESSURE DROP

Model	Wtr. Flow Rate (GPM)	Wtr. PD w/o Int. Valve (psi)	Wtr. PD w/ Int. Valve (psi)
LV007	1.0	0.3	0.5
	2.0	1.1	1.8
	3.0	2.3	3.8
LV009	1.0	0.5	0.6
	2.0	1.7	2.3
	3.0	3.5	5.0
LV012	1.5	1.0	1.4
	2.5	2.6	3.6
	3.5	4.8	6.7
LV015	2.0	1.9	2.5
	3.0	3.9	5.3
	4.0	6.5	9.1
LV018	2.5	1.1	2.1
	4.0	2.7	5.2
	5.0	4.0	8.0
LV024	3.0	1.7	2.0
	4.0	2.8	3.4
	6.0	5.8	7.2
LV030	4.0	2.0	2.6
	6.0	4.2	5.6
	8.0	7.0	9.6

Model	Wtr. Flow Rate (GPM)	Wtr. PD w/o Int. Valve (psi)	Wtr. PD w/ Int. Valve (psi)
LV036	4.5	1.6	2.4
	6.0	2.6	4.0
	9.0	5.4	8.6
LV041	5.0	2.0	3.0
	8.0	4.6	7.2
	11.0	8.2	13.1
LV042	5.0	2.0	3.0
	8.0	4.6	7.2
	11.0	8.2	13.0
LV048	6.0	0.8	1.4
	8.0	1.4	2.5
	12.0	2.8	5.4
LV060	7.5	1.4	2.4
	10.0	2.3	4.1
	15.0	4.8	8.8
LV070	9.0	2.0	3.4
	12.0	3.4	5.9
	18.0	7.0	12.7



CAPACITY DATA

LV007 300 NOMINAL CFM (without Max-Evap Option)

Cooling								
Entering Fluid Temp (°F)	Water Flow (GPM)	Pressure Drop PSI (FOH)	Entering Air Temp (db/wb) °F	Total Capacity (MBTUH)	Sensible Capacity (MBTUH)	Heat of Rejection (MBTUH)	Power Input (kW)	EER
50	1	0.3 (0.6)	75/63	7.0	6.3	8.3	0.42	16.9
			80/67	7.5	6.5	8.8	0.42	18.1
			85/71	7.9	6.7	9.2	0.42	19.0
	2	1.2 (2.77)	75/63	7.5	6.5	8.6	0.37	20.3
			80/67	8.0	6.7	9.1	0.37	21.9
			85/71	8.5	6.9	9.7	0.36	23.5
	3	2.5 (5.77)	75/63	7.6	6.5	8.8	0.35	21.6
			80/67	8.1	6.8	9.3	0.35	23.4
			85/71	8.7	7.0	9.8	0.34	25.5
60	1	0.3 (0.6)	75/63	6.6	6.1	8.0	0.45	14.6
			80/67	7.1	6.3	8.5	0.46	15.7
			85/71	7.5	6.6	8.9	0.46	16.5
	2	1.2 (2.77)	75/63	7.1	6.3	8.3	0.41	17.4
			80/67	7.5	6.5	8.8	0.41	18.4
			85/71	8.0	6.8	9.3	0.41	19.8
	3	2.4 (5.54)	75/63	7.2	6.4	8.5	0.40	18.3
			80/67	7.7	6.6	9.0	0.39	19.8
			85/71	8.2	6.8	9.5	0.39	21.3
70	1	0.3 (0.6)	75/63	6.2	6.0	7.7	0.49	12.7
			80/67	6.7	6.2	8.2	0.50	13.6
			85/71	7.1	6.5	8.6	0.50	14.3
	2	1.1 (2.54)	75/63	6.6	6.1	8.0	0.45	14.7
			80/67	7.1	6.4	8.5	0.45	15.8
			85/71	7.6	6.6	9.0	0.45	17.0
	3	2.3 (5.31)	75/63	6.8	6.2	8.1	0.44	15.6
			80/67	7.3	6.4	8.6	0.44	16.8
			85/71	7.8	6.7	9.1	0.43	18.1
80	1	0.3 (0.6)	75/63	5.9	5.6	7.4	0.53	11.2
			80/67	6.3	6.1	7.8	0.54	11.8
			85/71	6.7	6.3	8.3	0.54	12.5
	2	1.1 (2.54)	75/63	6.2	6.0	7.7	0.50	12.6
			80/67	6.7	6.2	8.2	0.50	13.6
			85/71	7.1	6.5	8.6	0.50	14.4
	3	2.3 (5.31)	75/63	6.4	6.0	7.8	0.48	13.4
			80/67	6.8	6.3	8.3	0.48	14.2
			85/71	7.3	6.5	8.7	0.48	15.3
85	1	0.3 (0.6)	75/63	5.7	5.5	7.3	0.55	10.4
			80/67	6.1	5.8	7.7	0.56	11.0
			85/71	6.4	6.3	8.1	0.56	11.5
	2	1.1 (2.54)	75/63	6.0	5.7	7.6	0.52	11.7
			80/67	6.4	6.1	8.0	0.52	12.4
			85/71	6.9	6.4	8.4	0.52	13.4
	3	2.2 (5.07)	75/63	6.1	5.9	7.6	0.50	12.2
			80/67	6.6	6.2	8.1	0.50	13.2
			85/71	7.0	6.4	8.6	0.50	14.0
90	1	0.3 (0.6)	75/63	5.5	5.4	7.1	0.57	9.7
			80/67	5.9	5.7	7.5	0.58	10.3
			85/71	6.2	6.0	8.0	0.58	10.7
	2	1.1 (2.54)	75/63	5.8	5.6	7.4	0.54	10.8
			80/67	6.2	6.0	7.8	0.54	11.6
			85/71	6.6	6.3	8.3	0.54	12.3
	3	2.2 (5.07)	75/63	5.9	5.7	7.5	0.53	11.3
			80/67	6.3	6.1	7.9	0.53	12.0
			85/71	6.8	6.4	8.4	0.53	13.0
100	1	0.3 (0.6)	75/63	5.1	5.1	6.9	0.62	8.4
			80/67	5.4	5.4	7.2	0.62	8.8
			85/71	5.8	5.8	7.6	0.63	9.3
	2	1 (2.31)	75/63	5.4	5.4	7.1	0.58	9.3
			80/67	5.8	5.7	7.5	0.59	10.0
			85/71	6.2	5.9	7.9	0.59	10.6
	3	2.1 (4.84)	75/63	5.5	5.4	7.1	0.57	9.7
			80/67	5.9	5.7	7.6	0.58	10.3
			85/71	6.3	6.0	8.0	0.58	11.0
110	1	0.3 (0.6)	75/63	4.7	4.7	6.6	0.66	7.2
			80/67	5.0	5.0	7.0	0.67	7.5
			85/71	5.4	5.4	7.3	0.68	8.0
	2	1 (2.31)	75/63	5.0	5.0	6.8	0.63	8.0
			80/67	5.3	5.3	7.2	0.64	8.4
			85/71	5.7	5.7	7.6	0.64	9.0
	3	2.1 (4.84)	75/63	5.1	5.1	6.8	0.62	8.3
			80/67	5.4	5.4	7.2	0.62	8.7
			85/71	5.8	5.8	7.6	0.63	9.3

CAPACITY DATA**LV009 350 NOMINAL CFM (without Max-Evap Option)**

Cooling								
Entering Fluid Temp (°F)	Water Flow (GPM)	Pressure Drop PSI (FOH)	Entering Air Temp (db/wb) °F	Total Capacity (MBTUH)	Sensible Capacity (MBTUH)	Heat of Rejection (MBTUH)	Power Input (kW)	EER
50	1	0.5 (1.1)	75/63	9.1	7.7	10.6	0.52	17.6
			80/67	9.6	8.0	11.2	0.52	18.6
			85/71	10.2	8.2	11.8	0.52	19.8
	2	1.8 (4.15)	75/63	9.6	8.0	11.0	0.44	21.6
			80/67	10.3	8.2	11.7	0.44	23.6
			85/71	10.9	8.5	12.3	0.43	25.4
	3	3.8 (8.77)	75/63	9.8	8.0	11.1	0.42	23.5
			80/67	10.5	8.3	11.8	0.41	25.7
			85/71	11.2	8.6	12.5	0.40	28.2
60	1	0.5 (1.1)	75/63	8.6	7.5	10.4	0.57	15.1
			80/67	9.2	7.8	10.9	0.57	16.1
			85/71	9.7	8.1	11.5	0.57	16.9
	2	1.8 (4.15)	75/63	9.2	7.8	10.7	0.50	18.3
			80/67	9.8	8.0	11.3	0.50	19.7
			85/71	10.4	8.3	11.9	0.49	21.2
	3	3.6 (8.30)	75/63	9.4	7.8	10.8	0.48	19.7
			80/67	10.0	8.1	11.5	0.47	21.2
			85/71	10.6	8.4	12.1	0.46	22.9
70	1	0.5 (1.1)	75/63	8.2	7.2	10.0	0.62	13.1
			80/67	8.7	7.6	10.6	0.63	13.8
			85/71	9.3	7.9	11.2	0.63	14.7
	2	1.7 (3.92)	75/63	8.7	7.5	10.4	0.56	15.5
			80/67	9.3	7.9	11.0	0.56	16.6
			85/71	9.9	8.1	11.6	0.56	17.8
	3	3.5 (8.07)	75/63	8.9	7.6	10.5	0.54	16.5
			80/67	9.5	7.9	11.1	0.53	17.8
			85/71	10.1	8.2	11.8	0.53	19.1
80	1	0.5 (1.1)	75/63	7.7	7.0	9.7	0.68	11.3
			80/67	8.2	7.3	10.3	0.69	11.9
			85/71	8.7	7.5	10.8	0.69	12.6
	2	1.6 (3.69)	75/63	8.2	7.2	10.1	0.62	13.2
			80/67	8.8	7.6	10.6	0.62	14.1
			85/71	9.3	7.9	11.2	0.62	15.0
	3	3.4 (7.84)	75/63	8.4	7.2	10.2	0.60	14.0
			80/67	9.0	7.7	10.8	0.60	15.0
			85/71	9.6	8.0	11.4	0.60	16.1
85	1	0.5 (1.1)	75/63	7.5	6.9	9.6	0.71	10.6
			80/67	8.0	7.2	10.1	0.72	11.2
			85/71	8.5	7.4	10.7	0.72	11.8
	2	1.6 (3.69)	75/63	8.0	7.1	9.9	0.65	12.2
			80/67	8.5	7.3	10.5	0.65	13.0
			85/71	9.1	7.8	11.0	0.65	13.9
	3	3.3 (7.61)	75/63	8.1	7.1	10.0	0.63	12.8
			80/67	8.7	7.4	10.6	0.63	13.7
			85/71	9.3	7.9	11.2	0.63	14.8
90	1	0.5 (1.1)	75/63	7.3	6.7	9.4	0.74	9.9
			80/67	7.8	7.0	10.0	0.75	10.4
			85/71	8.2	7.3	10.5	0.75	10.9
	2	1.6 (3.69)	75/63	7.7	7.0	9.7	0.68	11.2
			80/67	8.2	7.3	10.3	0.69	11.9
			85/71	8.8	7.5	10.8	0.69	12.8
	3	3.3 (7.61)	75/63	7.8	7.0	9.8	0.67	11.7
			80/67	8.4	7.3	10.4	0.67	12.6
			85/71	9.0	7.8	11.0	0.66	13.6
100	1	0.4 (0.9)	75/63	6.8	6.5	9.1	0.80	8.5
			80/67	7.2	6.8	9.6	0.81	8.9
			85/71	7.7	7.1	10.1	0.82	9.4
	2	1.5 (3.47)	75/63	7.2	6.7	9.4	0.75	9.6
			80/67	7.7	7.1	9.9	0.75	10.2
			85/71	8.2	7.3	10.5	0.75	10.9
	3	3.2 (7.39)	75/63	7.3	6.8	9.5	0.73	10.0
			80/67	7.9	7.1	10.0	0.73	10.8
			85/71	8.4	7.3	10.6	0.73	11.4
110	1	0.4 (0.9)	75/63	6.3	6.3	8.8	0.86	7.3
			80/67	6.7	6.6	9.3	0.87	7.7
			85/71	7.2	6.9	9.8	0.88	8.1
	2	1.5 (3.47)	75/63	6.7	6.5	9.0	0.82	8.2
			80/67	7.1	6.8	9.6	0.82	8.6
			85/71	7.6	7.1	10.1	0.83	9.2
	3	3.1 (7.15)	75/63	6.8	6.6	9.1	0.80	8.5
			80/67	7.3	6.9	9.6	0.80	9.1
			85/71	7.8	7.2	10.2	0.81	9.7



CAPACITY DATA

LV012 400 NOMINAL CFM (without Max-Evap Option)

Cooling								
Entering Fluid Temp (°F)	Water Flow (GPM)	Pressure Drop PSI (FOH)	Entering Air Temp (db/wb) °F	Total Capacity (MBTUH)	Sensible Capacity (MBTUH)	Heat of Rejection (MBTUH)	Power Input (kW)	EER
50	1.5	1.1 (2.54)	75/63	12.5	9.7	14.6	0.67	18.8
			80/67	13.3	10.0	15.4	0.67	19.9
			85/71	14.1	10.2	16.3	0.67	21.0
	2.5	2.8 (6.46)	75/63	12.9	9.9	14.9	0.61	21.3
			80/67	13.8	10.2	15.8	0.60	22.9
			85/71	14.7	10.4	16.7	0.60	24.6
	3.5	5.1 (11.7)	75/63	13.1	10.0	15.0	0.58	22.6
			80/67	14.0	10.3	15.9	0.57	24.4
			85/71	15.0	10.6	16.9	0.57	26.6
60	1.5	1.1 (2.54)	75/63	11.9	9.4	14.2	0.74	16.1
			80/67	12.7	9.7	15.0	0.75	17.1
			85/71	13.5	10.0	15.9	0.75	18.0
	2.5	2.7 (6.23)	75/63	12.3	9.6	14.5	0.69	18.0
			80/67	13.2	9.9	15.4	0.68	19.4
			85/71	14.1	10.2	16.3	0.68	20.8
	3.5	4.9 (11.2)	75/63	12.5	9.7	14.6	0.66	18.9
			80/67	13.4	10.0	15.5	0.66	20.5
			85/71	14.3	10.3	16.4	0.65	22.0
70	1.5	1 (2.3)	75/63	11.3	9.2	13.8	0.82	13.9
			80/67	12.0	9.5	14.6	0.82	14.6
			85/71	12.8	9.8	15.4	0.83	15.4
	2.5	2.6 (5.9)	75/63	11.7	9.4	14.1	0.76	15.3
			80/67	12.5	9.7	14.9	0.77	16.4
			85/71	13.3	10.0	15.8	0.76	17.4
	3.5	4.8 (11.0)	75/63	11.8	9.4	14.2	0.75	15.9
			80/67	12.7	9.8	15.1	0.74	17.2
			85/71	13.6	10.0	15.9	0.74	18.4
80	1.5	1 (2.3)	75/63	10.7	8.9	13.5	0.89	12.0
			80/67	11.4	9.2	14.2	0.90	12.6
			85/71	12.1	9.5	15.0	0.91	13.3
	2.5	2.5 (5.7)	75/63	11.1	9.1	13.7	0.85	13.1
			80/67	11.8	9.4	14.5	0.85	13.9
			85/71	12.6	9.7	15.3	0.85	14.8
	3.5	4.6 (10.6)	75/63	11.2	9.2	13.8	0.83	13.5
			80/67	12.0	9.4	14.6	0.83	14.5
			85/71	12.8	9.7	15.5	0.83	15.5
85	1.5	1 (2.3)	75/63	10.4	8.8	13.3	0.93	11.2
			80/67	11.1	9.1	14.0	0.94	11.8
			85/71	11.8	9.4	14.8	0.95	12.4
	2.5	2.5 (5.7)	75/63	10.7	9.0	13.5	0.89	12.1
			80/67	11.5	9.3	14.3	0.89	12.9
			85/71	12.2	9.6	15.1	0.90	13.6
	3.5	4.5 (10.3)	75/63	10.9	9.0	13.5	0.87	12.6
			80/67	11.6	9.3	14.4	0.87	13.3
			85/71	12.4	9.6	15.2	0.88	14.2
90	1.5	1 (2.3)	75/63	10.1	8.7	13.1	0.98	10.4
			80/67	10.7	9.0	13.8	0.99	10.9
			85/71	11.5	9.3	14.6	1.00	11.6
	2.5	2.4 (5.5)	75/63	10.4	8.8	13.3	0.93	11.2
			80/67	11.1	9.1	14.1	0.94	11.9
			85/71	11.9	9.4	14.8	0.94	12.6
	3.5	4.5 (10.3)	75/63	10.5	8.8	13.4	0.92	11.4
			80/67	11.3	9.2	14.1	0.91	12.4
			85/71	12.1	9.5	14.9	0.92	13.2
100	1.5	0.9 (2.0)	75/63	9.4	8.4	12.6	1.06	8.9
			80/67	10.1	8.8	13.4	1.07	9.4
			85/71	10.8	9.0	14.1	1.08	10.0
	2.5	2.4 (5.5)	75/63	9.7	8.5	12.8	1.02	9.5
			80/67	10.4	8.8	13.6	1.03	10.1
			85/71	11.1	9.2	14.3	1.03	10.7
	3.5	4.3 (9.9)	75/63	9.8	8.6	12.9	1.01	9.8
			80/67	10.5	8.9	13.6	1.01	10.5
			85/71	11.3	9.3	14.4	1.01	11.2
110	1.5	0.9 (2.0)	75/63	8.8	8.1	12.2	1.15	7.7
			80/67	9.4	8.5	12.9	1.16	8.1
			85/71	10.0	8.8	13.6	1.17	8.6
	2.5	2.3 (5.3)	75/63	9.0	8.3	12.4	1.11	8.1
			80/67	9.7	8.5	13.1	1.12	8.7
			85/71	10.4	8.9	13.9	1.13	9.2
	3.5	4.2 (9.6)	75/63	9.1	8.3	12.5	1.10	8.3
			80/67	9.8	8.7	13.2	1.10	8.9
			85/71	10.5	9.0	13.9	1.11	9.5

**CAPACITY DATA****LV015 500 NOMINAL CFM (without Max-Evap Option)**

Cooling								
Entering Fluid Temp (°F)	Water Flow (GPM)	Pressure Drop PSI (FOH)	Entering Air Temp (db/wb) °F	Total Capacity (MBTUH)	Sensible Capacity (MBTUH)	Heat of Rejection (MBTUH)	Power Input (kW)	EER
50	2	2 (4.62)	75/63	15.2	11.5	17.7	0.77	19.8
			80/67	16.3	11.9	18.7	0.76	21.5
			85/71	17.3	12.3	19.8	0.75	23.2
	3	4.2 (9.6)	75/63	15.6	11.7	17.9	0.71	21.9
			80/67	16.7	12.1	19.0	0.70	24.0
			85/71	17.9	12.5	20.1	0.68	26.4
	4.5	8.6 (19.8)	75/63	15.9	11.9	18.1	0.67	23.6
			80/67	17.1	12.3	19.2	0.65	26.2
			85/71	18.3	12.7	20.4	0.63	29.0
60	2	1.9 (4.3)	75/63	14.5	11.2	17.3	0.86	16.8
			80/67	15.5	11.6	18.3	0.86	18.1
			85/71	16.6	12.0	19.3	0.85	19.6
	3	4 (9.2)	75/63	14.9	11.4	17.5	0.81	18.4
			80/67	16.0	11.8	18.6	0.80	20.1
			85/71	17.1	12.2	19.6	0.78	21.9
	4.5	8.3 (19.1)	75/63	15.2	11.5	17.7	0.77	19.6
			80/67	16.3	11.9	18.7	0.76	21.5
			85/71	17.4	12.3	19.8	0.74	23.6
70	2	1.9 (4.3)	75/63	13.8	11.0	16.8	0.96	14.4
			80/67	14.8	11.3	17.8	0.96	15.5
			85/71	15.8	11.7	18.8	0.95	16.6
	3	3.9 (8.9)	75/63	14.2	11.1	17.0	0.91	15.6
			80/67	15.2	11.5	18.1	0.90	16.9
			85/71	16.3	11.9	19.1	0.89	18.3
	4.5	8.1 (18.6)	75/63	14.4	11.2	17.2	0.88	16.4
			80/67	15.5	11.6	18.2	0.86	18.0
			85/71	16.6	12.0	19.3	0.85	19.6
80	2	1.8 (4.1)	75/63	13.0	10.6	16.4	1.06	12.3
			80/67	14.0	11.1	17.3	1.06	13.2
			85/71	14.9	11.4	18.3	1.06	14.1
	3	3.8 (8.7)	75/63	13.4	10.7	16.6	1.01	13.2
			80/67	14.4	11.2	17.5	1.01	14.3
			85/71	15.4	11.6	18.6	1.00	15.4
	4.5	7.8 (17.9)	75/63	13.6	10.9	16.7	0.98	13.8
			80/67	14.6	11.2	17.7	0.97	15.0
			85/71	15.7	11.7	18.7	0.96	16.3
85	2	1.8 (4.1)	75/63	12.7	10.4	16.1	1.11	11.4
			80/67	13.6	10.9	17.0	1.11	12.2
			85/71	14.5	11.3	18.0	1.11	13.1
	3	3.7 (8.5)	75/63	13.0	10.6	16.3	1.07	12.2
			80/67	13.9	11.1	17.3	1.06	13.1
			85/71	15.0	11.4	18.3	1.05	14.2
	4.5	7.7 (17.7)	75/63	13.2	10.7	16.4	1.04	12.7
			80/67	14.2	11.1	17.4	1.03	13.8
			85/71	15.2	11.5	18.5	1.02	14.9
90	2	1.8 (4.1)	75/63	12.3	10.3	15.9	1.16	10.6
			80/67	13.2	10.7	16.8	1.16	11.3
			85/71	14.1	11.1	17.8	1.16	12.1
	3	3.6 (8.3)	75/63	12.6	10.4	16.1	1.12	11.3
			80/67	13.5	10.9	17.0	1.12	12.1
			85/71	14.5	11.3	18.0	1.11	13.1
	4.5	7.6 (17.5)	75/63	12.8	10.6	16.2	1.09	11.7
			80/67	13.8	10.9	17.2	1.09	12.7
			85/71	14.8	11.4	18.2	1.08	13.8
100	2	1.7 (3.9)	75/63	11.5	9.9	15.4	1.27	9.1
			80/67	12.3	10.4	16.3	1.27	9.7
			85/71	13.2	10.8	17.2	1.27	10.4
	3	3.5 (8.0)	75/63	11.8	10.0	15.6	1.23	9.6
			80/67	12.7	10.5	16.5	1.23	10.4
			85/71	13.6	10.9	17.5	1.23	11.1
	4.5	7.3 (16.8)	75/63	12.0	10.1	15.7	1.21	9.9
			80/67	12.9	10.6	16.6	1.20	10.8
			85/71	13.9	11.0	17.6	1.20	11.6
110	2	1.7 (3.9)	75/63	10.7	9.6	15.0	1.38	7.8
			80/67	11.5	10.0	15.8	1.38	8.3
			85/71	12.4	10.4	16.7	1.39	8.9
	3	3.4 (7.8)	75/63	11.0	9.7	15.1	1.34	8.2
			80/67	11.8	10.2	16.0	1.34	8.8
			85/71	12.7	10.6	16.9	1.34	9.5
	4.5	7.1 (16.3)	75/63	11.1	9.8	15.2	1.32	8.4
			80/67	12.0	10.3	16.1	1.32	9.1
			85/71	12.9	10.7	17.0	1.31	9.8



LV SERIES POOL DEHUMIDIFIERS

CAPACITY DATA

LV018 650 NOMINAL CFM (without Max-Evap Option)

Cooling								
Entering Fluid Temp (°F)	Water Flow (GPM)	Pressure Drop PSI (FOH)	Entering Air Temp (db/wb) °F	Total Capacity (MBTUH)	Sensible Capacity (MBTUH)	Heat of Rejection (MBTUH)	Power Input (kW)	EER
50	2.5	1.2 (2.7)	75/63	22.3	15.9	26.1	1.24	18.0
			80/67	24.1	16.5	27.9	1.25	19.3
			85/71	25.9	17.0	29.8	1.26	20.6
	4	2.9 (6.6)	75/63	23.5	16.3	27.1	1.15	20.4
			80/67	25.4	16.9	29.0	1.15	22.1
			85/71	27.4	17.4	31.0	1.15	23.9
	5	4.3 (9.9)	75/63	23.9	16.5	27.4	1.12	21.3
			80/67	25.8	17.1	29.4	1.12	23.1
			85/71	27.9	17.6	31.4	1.11	25.3
60	2.5	1.2 (2.7)	75/63	21.1	15.3	25.1	1.33	15.9
			80/67	22.8	15.9	26.9	1.34	17.0
			85/71	24.5	16.4	28.7	1.36	18.1
	4	2.8 (6.4)	75/63	22.2	15.8	26.0	1.25	17.8
			80/67	24.0	16.4	27.9	1.26	19.1
			85/71	25.9	16.9	29.8	1.26	20.6
	5	4.1 (9.4)	75/63	22.6	16.0	26.3	1.22	18.5
			80/67	24.5	16.5	28.2	1.22	20.1
			85/71	26.4	17.1	30.3	1.22	21.7
70	2.5	1.1 (2.54)	75/63	19.8	14.8	24.0	1.42	14.0
			80/67	21.4	15.3	25.7	1.44	14.9
			85/71	23.1	15.7	27.6	1.46	15.9
	4	2.7 (6.2)	75/63	20.8	15.2	24.9	1.35	15.5
			80/67	22.6	15.8	26.7	1.36	16.7
			85/71	24.5	16.2	28.7	1.37	17.9
	5	4 (9.2)	75/63	21.2	15.4	25.2	1.32	16.1
			80/67	23.0	16.0	27.0	1.33	17.3
			85/71	24.9	16.4	29.1	1.33	18.7
80	2.5	1.1 (2.54)	75/63	18.5	14.1	22.9	1.50	12.4
			80/67	20.1	14.6	24.6	1.53	13.2
			85/71	21.6	15.3	26.2	1.55	13.9
	4	2.6 (5.9)	75/63	19.5	14.5	23.7	1.44	13.6
			80/67	21.1	15.1	25.5	1.46	14.5
			85/71	22.9	15.6	27.4	1.47	15.6
	5	3.9 (8.9)	75/63	19.8	14.7	24.0	1.42	14.0
			80/67	21.5	15.3	25.8	1.43	15.0
			85/71	23.4	15.8	27.7	1.44	16.2
85	2.5	1.1 (2.54)	75/63	17.8	13.8	22.3	1.54	11.6
			80/67	19.3	14.5	23.9	1.57	12.3
			85/71	20.8	15.0	25.6	1.60	13.0
	4	2.6 (5.9)	75/63	18.8	14.2	23.1	1.49	12.7
			80/67	20.3	14.9	24.8	1.51	13.5
			85/71	22.0	15.5	26.6	1.53	14.4
	5	3.8 (8.7)	75/63	19.1	14.3	23.4	1.47	13.0
			80/67	20.8	14.9	25.2	1.49	14.0
			85/71	22.5	15.5	27.0	1.50	15.0
90	2.5	1.1 (2.54)	75/63	17.1	13.6	21.7	1.58	10.8
			80/67	18.6	14.2	23.3	1.62	11.5
			85/71	20.1	14.7	25.0	1.65	12.2
	4	2.5 (5.7)	75/63	18.0	13.8	22.5	1.53	11.8
			80/67	19.6	14.6	24.1	1.56	12.6
			85/71	21.2	15.1	25.9	1.58	13.5
	5	3.8 (8.7)	75/63	18.3	14.0	22.7	1.51	12.1
			80/67	19.9	14.6	24.5	1.53	13.0
			85/71	21.6	15.3	26.3	1.55	13.9
100	2.5	1 (2.3)	75/63	15.6	13.0	20.3	1.65	9.5
			80/67	17.0	13.6	21.9	1.70	10.0
			85/71	18.5	14.1	23.6	1.74	10.7
	4	2.4 (5.5)	75/63	16.5	13.3	21.1	1.61	10.2
			80/67	18.0	14.0	22.8	1.65	10.9
			85/71	19.6	14.5	24.5	1.68	11.7
	5	3.6 (8.3)	75/63	16.8	13.5	21.4	1.60	10.5
			80/67	18.3	14.1	23.1	1.63	11.3
			85/71	20.0	14.6	24.9	1.66	12.1
110	2.5	1 (2.3)	75/63	14.1	12.3	18.9	1.72	8.2
			80/67	15.4	12.9	20.4	1.77	8.7
			85/71	16.7	13.7	21.9	1.81	9.2
	4	2.4 (5.5)	75/63	14.9	12.6	19.6	1.69	8.8
			80/67	16.4	13.2	21.3	1.73	9.5
			85/71	17.8	13.9	23.0	1.77	10.1
	5	3.5 (8.0)	75/63	15.1	12.8	19.8	1.68	9.0
			80/67	16.7	13.3	21.6	1.72	9.7
			85/71	18.2	14.0	23.3	1.75	10.4



CAPACITY DATA**LV024 850 NOMINAL CFM (without Max-Evap Option)**

Cooling								
Entering Fluid Temp (°F)	Water Flow (GPM)	Pressure Drop PSI (FOH)	Entering Air Temp (db/wb) °F	Total Capacity (MBTUH)	Sensible Capacity (MBTUH)	Heat of Rejection (MBTUH)	Power Input (kW)	EER
50	3	1.8 (4.1)	75/63	25.6	18.6	30.0	1.44	17.8
			80/67	27.5	19.2	32.0	1.45	19.0
			85/71	29.5	19.8	34.0	1.45	20.4
	5	4.5 (10.3)	75/63	26.9	19.1	31.0	1.33	20.2
			80/67	28.9	19.8	33.1	1.33	21.8
			85/71	31.1	20.4	35.3	1.31	23.7
	7	8.2 (18.9)	75/63	27.5	19.4	31.5	1.28	21.5
			80/67	29.6	20.1	33.6	1.27	23.4
			85/71	31.8	20.7	35.8	1.25	25.5
60	3	1.7 (3.9)	75/63	24.3	18.0	29.0	1.55	15.7
			80/67	26.1	18.6	30.9	1.56	16.7
			85/71	28.0	19.2	32.9	1.58	17.8
	5	4.3 (9.8)	75/63	25.5	18.5	29.9	1.45	17.6
			80/67	27.5	19.2	32.0	1.45	19.0
			85/71	29.6	19.8	34.1	1.45	20.5
	7	7.9 (18.2)	75/63	26.1	18.8	30.4	1.40	18.6
			80/67	28.1	19.4	32.5	1.40	20.1
			85/71	30.3	20.1	34.6	1.38	21.9
70	3	1.7 (3.9)	75/63	22.9	17.3	27.9	1.66	13.8
			80/67	24.7	18.0	29.8	1.68	14.7
			85/71	26.5	18.6	31.7	1.70	15.6
	5	4.2 (9.6)	75/63	24.1	17.8	28.8	1.57	15.4
			80/67	26.0	18.5	30.8	1.58	16.5
			85/71	27.9	19.2	32.8	1.58	17.6
	7	7.7 (17.7)	75/63	24.6	18.1	29.2	1.53	16.1
			80/67	26.6	18.8	31.3	1.53	17.4
			85/71	28.6	19.4	33.4	1.53	18.8
80	3	1.6 (3.6)	75/63	21.5	16.6	26.7	1.77	12.1
			80/67	23.1	17.3	28.5	1.80	12.8
			85/71	24.9	17.9	30.4	1.83	13.6
	5	4 (9.2)	75/63	22.5	17.2	27.6	1.69	13.3
			80/67	24.4	17.8	29.5	1.71	14.3
			85/71	26.3	18.5	31.5	1.72	15.3
	7	7.4 (17.0)	75/63	23.0	17.4	28.0	1.65	13.9
			80/67	24.9	18.0	30.0	1.66	15.0
			85/71	26.9	18.7	32.0	1.67	16.1
85	3	1.6 (3.6)	75/63	20.7	16.3	26.1	1.83	11.3
			80/67	22.4	17.0	27.9	1.86	12.1
			85/71	24.1	17.6	29.7	1.89	12.8
	5	4 (9.2)	75/63	21.8	16.8	26.9	1.75	12.5
			80/67	23.5	17.5	28.9	1.77	13.3
			85/71	25.4	18.1	30.8	1.79	14.2
	7	7.3 (16.8)	75/63	22.2	17.0	27.3	1.71	13.0
			80/67	24.1	17.7	29.3	1.73	13.9
			85/71	26.0	18.3	31.3	1.74	14.9
90	3	1.6 (3.6)	75/63	20.0	15.9	25.5	1.88	10.7
			80/67	21.5	16.7	27.2	1.92	11.2
			85/71	23.2	17.2	29.1	1.95	11.9
	5	3.9 (8.9)	75/63	21.0	16.4	26.3	1.81	11.6
			80/67	22.7	17.1	28.2	1.84	12.4
			85/71	24.5	17.7	30.1	1.86	13.2
	7	7.2 (16.6)	75/63	21.4	16.6	26.7	1.78	12.1
			80/67	23.2	17.3	28.6	1.80	12.9
			85/71	25.1	17.9	30.6	1.81	13.9
100	3	1.5 (3.4)	75/63	18.4	15.2	24.1	1.98	9.3
			80/67	19.9	15.9	25.8	2.03	9.8
			85/71	21.4	16.6	27.6	2.07	10.3
	5	3.8 (8.7)	75/63	19.3	15.7	24.9	1.92	10.1
			80/67	20.9	16.4	26.7	1.96	10.7
			85/71	22.6	17.1	28.6	1.99	11.4
	7	7 (16.1)	75/63	19.7	15.9	25.2	1.89	10.4
			80/67	21.4	16.6	27.1	1.93	11.1
			85/71	23.2	17.3	29.0	1.95	11.9
110	3	1.5 (3.4)	75/63	16.7	14.6	22.6	2.08	8.1
			80/67	18.1	15.3	24.3	2.13	8.5
			85/71	19.5	15.9	26.0	2.19	8.9
	5	3.7 (8.5)	75/63	17.5	15.0	23.4	2.03	8.6
			80/67	19.1	15.6	25.2	2.08	9.2
			85/71	20.7	16.3	27.0	2.12	9.8
	7	6.8 (15.6)	75/63	17.9	15.1	23.7	2.01	8.9
			80/67	19.6	15.8	25.6	2.05	9.6
			85/71	21.2	16.6	27.4	2.09	10.2





LV SERIES POOL DEHUMIDIFIERS

CAPACITY DATA

LV030 950 NOMINAL CFM (without Max-Evap Option)

Cooling								
Entering Fluid Temp (°F)	Water Flow (GPM)	Pressure Drop PSI (FOH)	Entering Air Temp (db/wb) °F	Total Capacity (MBTUH)	Sensible Capacity (MBTUH)	Heat of Rejection (MBTUH)	Power Input (kW)	EER
50	3.5	1.7 (3.9)	75/63	34.3	25.3	39.4	1.65	20.8
			80/67	36.8	26.1	42.0	1.66	22.2
			85/71	39.4	26.9	44.6	1.66	23.8
	6	4.5 (10.3)	75/63	36.1	26.1	40.8	1.50	24.1
			80/67	38.8	27.0	43.5	1.48	26.2
			85/71	41.7	27.8	46.4	1.46	28.6
	9	9.3 (21.4)	75/63	37.0	26.5	41.5	1.42	26.0
			80/67	39.8	27.4	44.3	1.40	28.5
			85/71	42.8	28.2	47.2	1.36	31.5
60	3.5	1.6 (3.7)	75/63	32.5	24.5	38.0	1.80	18.1
			80/67	34.9	25.4	40.5	1.81	19.3
			85/71	37.3	26.1	43.0	1.82	20.5
	6	4.3 (9.9)	75/63	34.2	25.3	39.3	1.66	20.6
			80/67	36.9	26.2	42.0	1.65	22.3
			85/71	39.6	27.0	44.8	1.64	24.2
	9	8.9 (20.5)	75/63	35.1	25.6	40.0	1.59	22.1
			80/67	37.8	26.6	42.8	1.57	24.1
			85/71	40.7	27.4	45.6	1.54	26.3
70	3.5	1.6 (3.7)	75/63	30.6	23.7	36.5	1.94	15.7
			80/67	33.0	24.4	39.0	1.97	16.8
			85/71	35.3	25.4	41.4	1.99	17.8
	6	4.2 (9.6)	75/63	32.2	24.4	37.8	1.82	17.7
			80/67	34.8	25.3	40.4	1.82	19.1
			85/71	37.4	26.1	43.1	1.82	20.5
	9	8.6 (19.8)	75/63	33.0	24.7	38.4	1.75	18.8
			80/67	35.7	25.7	41.1	1.75	20.4
			85/71	38.4	26.5	43.9	1.73	22.1
80	3.5	1.5 (3.4)	75/63	28.7	22.7	35.0	2.09	13.7
			80/67	30.9	23.6	37.4	2.12	14.5
			85/71	33.2	24.4	39.8	2.15	15.4
	6	4 (9.2)	75/63	30.2	23.3	36.2	1.98	15.3
			80/67	32.6	24.3	38.8	1.99	16.3
			85/71	35.1	25.1	41.3	2.00	17.5
	9	8.4 (19.3)	75/63	30.9	23.6	36.8	1.92	16.0
			80/67	33.4	24.8	39.3	1.93	17.3
			85/71	36.0	25.7	42.0	1.93	18.7
85	3.5	1.5 (3.4)	75/63	27.7	22.4	34.1	2.15	12.8
			80/67	29.8	23.3	36.4	2.20	13.6
			85/71	32.0	24.1	38.8	2.23	14.3
	6	4 (9.2)	75/63	29.2	22.9	35.4	2.05	14.2
			80/67	31.5	23.9	37.8	2.08	15.2
			85/71	33.9	24.8	40.4	2.09	16.2
	9	8.2 (18.9)	75/63	29.8	23.4	35.9	2.00	14.9
			80/67	32.3	24.3	38.4	2.02	16.0
			85/71	34.8	25.1	41.1	2.02	17.2
90	3.5	1.5 (3.4)	75/63	26.7	21.9	33.3	2.22	12.0
			80/67	28.7	22.8	35.6	2.27	12.6
			85/71	30.9	23.5	38.0	2.31	13.3
	6	3.9 (8.9)	75/63	28.0	22.5	34.4	2.13	13.1
			80/67	30.3	23.4	36.9	2.16	14.0
			85/71	32.7	24.2	39.4	2.18	15.0
	9	8.1 (18.6)	75/63	28.7	22.9	34.9	2.08	13.8
			80/67	31.1	23.8	37.5	2.11	14.8
			85/71	33.6	24.6	40.1	2.12	15.8
100	3.5	1.4 (3.2)	75/63	24.6	21.0	31.6	2.36	10.4
			80/67	26.6	21.8	33.8	2.42	11.0
			85/71	28.5	22.8	36.0	2.47	11.5
	6	3.8 (8.7)	75/63	25.9	21.4	32.6	2.28	11.3
			80/67	28.0	22.5	34.9	2.32	12.1
			85/71	30.2	23.4	37.4	2.36	12.8
	9	7.9 (18.2)	75/63	26.4	21.7	33.1	2.24	11.8
			80/67	28.6	22.8	35.5	2.28	12.6
			85/71	31.0	23.8	38.0	2.30	13.4
110	3.5	1.4 (3.2)	75/63	22.6	19.9	29.9	2.48	9.1
			80/67	24.3	21.0	31.9	2.55	9.5
			85/71	26.1	21.9	34.0	2.62	10.0
	6	3.7 (8.5)	75/63	23.6	20.4	30.8	2.42	9.7
			80/67	25.6	21.4	33.0	2.48	10.3
			85/71	27.6	22.5	35.2	2.53	10.9
	9	7.6 (17.5)	75/63	24.0	20.6	31.1	2.39	10.0
			80/67	26.1	21.7	33.4	2.44	10.7
			85/71	28.3	22.5	35.8	2.49	11.4



CAPACITY DATA**LV036 1200 NOMINAL CFM (without Max-Evap Option)**

Cooling								
Entering Fluid Temp (°F)	Water Flow (GPM)	Pressure Drop PSI (FOH)	Entering Air Temp (db/wb) °F	Total Capacity (MBTUH)	Sensible Capacity (MBTUH)	Heat of Rejection (MBTUH)	Power Input (kW)	EER
50	4	1.3 (2.9)	75/63	40.8	30.0	47.7	2.16	18.9
			80/67	43.7	31.0	50.7	2.17	20.1
			85/71	46.7	31.9	53.7	2.18	21.4
	7.5	4.2 (9.6)	75/63	43.4	31.0	49.7	1.96	22.1
			80/67	46.7	32.0	53.0	1.95	24.0
			85/71	50.0	32.9	56.3	1.93	25.9
	11	8.3 (19.1)	75/63	44.4	31.5	50.4	1.88	23.6
			80/67	47.8	32.4	53.8	1.86	25.7
			85/71	51.3	33.5	57.2	1.83	28.0
60	4	1.3 (2.9)	75/63	38.7	29.1	46.0	2.33	16.6
			80/67	41.5	30.0	49.0	2.35	17.6
			85/71	44.5	30.8	52.0	2.37	18.8
	7.5	4 (9.6)	75/63	41.2	30.1	47.9	2.14	19.3
			80/67	44.3	31.1	51.1	2.13	20.8
			85/71	47.6	32.0	54.4	2.12	22.4
	11	8 (18.4)	75/63	42.1	30.5	48.7	2.06	20.4
			80/67	45.4	31.5	51.9	2.05	22.2
			85/71	48.8	32.4	55.3	2.02	24.1
70	4	1.3 (2.9)	75/63	36.5	28.0	44.4	2.51	14.5
			80/67	39.3	28.9	47.2	2.54	15.5
			85/71	42.0	29.8	50.1	2.56	16.4
	7.5	3.9 (8.9)	75/63	38.9	29.0	46.2	2.33	16.7
			80/67	41.9	30.0	49.3	2.33	18.0
			85/71	45.0	31.1	52.4	2.32	19.3
	11	7.8 (17.9)	75/63	39.8	29.4	46.9	2.25	17.7
			80/67	42.9	30.4	50.0	2.25	19.1
			85/71	46.2	31.3	53.3	2.23	20.7
80	4	1.2 (2.7)	75/63	34.3	27.0	42.6	2.69	12.8
			80/67	36.9	28.0	45.4	2.73	13.5
			85/71	39.4	29.1	48.1	2.76	14.3
	7.5	3.8 (8.7)	75/63	36.5	27.9	44.3	2.52	14.5
			80/67	39.3	29.0	47.3	2.53	15.5
			85/71	42.3	30.1	50.3	2.54	16.7
	11	7.5 (17.2)	75/63	37.3	28.3	45.0	2.45	15.2
			80/67	40.3	29.5	48.0	2.46	16.4
			85/71	43.4	30.3	51.2	2.45	17.7
85	4	1.2 (2.7)	75/63	33.1	26.5	41.7	2.77	11.9
			80/67	35.6	27.5	44.4	2.82	12.6
			85/71	38.2	28.4	47.1	2.86	13.4
	7.5	3.7 (8.5)	75/63	35.2	27.5	43.3	2.61	13.5
			80/67	38.0	28.4	46.3	2.64	14.4
			85/71	41.0	29.4	49.3	2.65	15.5
	11	7.4 (17.0)	75/63	36.0	27.7	44.0	2.55	14.1
			80/67	39.0	28.8	47.0	2.56	15.2
			85/71	42.0	30.0	50.0	2.56	16.4
90	4	1.2 (2.7)	75/63	31.9	26.1	40.6	2.86	11.1
			80/67	34.3	27.2	43.3	2.91	11.8
			85/71	36.8	28.2	46.0	2.95	12.5
	7.5	3.6 (8.3)	75/63	34.0	26.9	42.3	2.71	12.5
			80/67	36.6	28.1	45.2	2.74	13.4
			85/71	39.5	28.9	48.2	2.76	14.3
	11	7.3 (16.8)	75/63	34.7	27.2	42.9	2.65	13.1
			80/67	37.5	28.4	45.9	2.67	14.0
			85/71	40.5	29.5	48.9	2.68	15.1
100	4	1.1 (2.5)	75/63	29.5	25.0	38.7	3.03	9.7
			80/67	31.7	26.3	41.2	3.09	10.2
			85/71	34.1	27.2	43.9	3.15	10.8
	7.5	3.5 (8.0)	75/63	31.3	26.0	40.2	2.90	10.8
			80/67	34.0	26.9	43.1	2.94	11.5
			85/71	36.6	27.9	45.9	2.97	12.3
	11	7.1 (16.3)	75/63	32.1	26.1	40.8	2.85	11.2
			80/67	34.8	27.2	43.7	2.88	12.1
			85/71	37.6	28.2	46.6	2.90	12.9
110	4	1.1 (2.5)	75/63	27.0	24.1	36.7	3.18	8.5
			80/67	29.1	25.2	39.1	3.26	8.9
			85/71	31.4	26.0	41.7	3.34	9.4
	7.5	3.4 (7.8)	75/63	28.7	24.7	38.1	3.08	9.3
			80/67	31.1	25.8	40.8	3.14	9.9
			85/71	33.6	27.1	43.4	3.18	10.5
	11	6.9 (15.9)	75/63	29.3	24.9	38.6	3.04	9.6
			80/67	31.8	26.1	41.3	3.09	10.3
			85/71	34.4	27.3	44.1	3.12	11.0



LV SERIES POOL DEHUMIDIFIERS

CAPACITY DATA

LV041 1150 NOMINAL CFM (without Max-Evap Option)

Cooling								
Entering Fluid Temp (°F)	Water Flow (GPM)	Pressure Drop PSI (FOH)	Entering Air Temp (db/wb) °F	Total Capacity (MBTUH)	Sensible Capacity (MBTUH)	Heat of Rejection (MBTUH)	Power Input (kW)	EER
50	5	2.1 (4.8)	75/63	44.8	32.0	52.9	2.52	17.8
			80/67	48.1	33.0	56.3	2.53	19.0
			85/71	51.4	33.9	59.7	2.54	20.2
	9	6.1 (14.0)	75/63	47.2	33.0	54.8	2.33	20.3
			80/67	50.7	34.1	58.3	2.32	21.9
			85/71	54.5	35.0	62.0	2.30	23.7
	13	11.9 (27.4)	75/63	48.2	33.5	55.5	2.25	21.4
			80/67	51.8	34.5	59.2	2.23	23.2
			85/71	55.7	35.5	63.0	2.20	25.3
60	5	2.1 (4.8)	75/63	42.5	31.0	51.2	2.71	15.7
			80/67	45.6	32.0	54.4	2.73	16.7
			85/71	48.9	32.9	57.8	2.75	17.8
	9	5.9 (13.6)	75/63	44.8	32.0	52.9	2.52	17.7
			80/67	48.2	33.0	56.4	2.52	19.1
			85/71	51.8	34.0	60.0	2.51	20.6
	13	11.5 (26.5)	75/63	45.7	32.4	53.6	2.45	18.7
			80/67	49.3	33.5	57.2	2.44	20.2
			85/71	53.0	34.5	60.9	2.41	22.0
70	5	2 (4.6)	75/63	40.1	29.9	49.3	2.91	13.8
			80/67	43.1	31.0	52.5	2.94	14.6
			85/71	46.2	31.9	55.7	2.97	15.6
	9	5.7 (13.1)	75/63	42.3	30.8	51.0	2.73	15.5
			80/67	45.6	31.9	54.4	2.74	16.6
			85/71	49.0	32.9	57.8	2.74	17.9
	13	11.1 (25.6)	75/63	43.2	31.2	51.7	2.66	16.2
			80/67	46.6	32.3	55.1	2.66	17.5
			85/71	50.1	33.4	58.7	2.65	18.9
80	5	1.9 (4.3)	75/63	37.6	28.8	47.4	3.11	12.1
			80/67	40.5	29.9	50.5	3.15	12.8
			85/71	43.5	30.8	53.6	3.19	13.6
	9	5.6 (12.9)	75/63	39.7	29.7	49.0	2.95	13.5
			80/67	42.8	30.8	52.3	2.97	14.4
			85/71	46.1	31.8	55.7	2.98	15.5
	13	10.8 (24.9)	75/63	40.5	30.0	49.6	2.88	14.0
			80/67	43.8	31.2	53.0	2.89	15.1
			85/71	47.2	32.2	56.5	2.89	16.3
85	5	1.9 (4.3)	75/63	36.3	28.2	46.4	3.21	11.3
			80/67	39.2	29.3	49.5	3.26	12.0
			85/71	42.1	30.2	52.6	3.30	12.8
	9	5.5 (12.6)	75/63	38.3	29.1	48.0	3.06	12.5
			80/67	41.4	30.2	51.2	3.08	13.4
			85/71	44.6	31.2	54.5	3.10	14.4
	13	10.6 (24.4)	75/63	39.1	29.4	48.6	2.99	13.1
			80/67	42.3	30.5	51.9	3.01	14.0
			85/71	45.7	31.6	55.3	3.02	15.1
90	5	1.9 (4.3)	75/63	35.0	27.7	45.4	3.31	10.6
			80/67	37.8	28.9	48.3	3.36	11.2
			85/71	40.5	29.9	51.4	3.41	11.9
	9	5.4 (12.4)	75/63	37.0	28.5	46.9	3.16	11.7
			80/67	40.0	29.6	50.1	3.20	12.5
			85/71	43.0	30.8	53.3	3.22	13.4
	13	10.4 (23.9)	75/63	37.7	28.8	47.5	3.11	12.1
			80/67	40.9	29.9	50.8	3.13	13.1
			85/71	44.0	31.1	54.1	3.14	14.0
100	5	1.8 (4.1)	75/63	32.3	26.7	43.2	3.50	9.2
			80/67	35.0	27.6	46.2	3.57	9.8
			85/71	37.6	28.7	49.1	3.63	10.4
	9	5.2 (11.9)	75/63	34.1	27.2	44.7	3.38	10.1
			80/67	37.0	28.4	47.8	3.42	10.8
			85/71	39.9	29.7	50.8	3.46	11.5
	13	10.1 (23.2)	75/63	34.8	27.5	45.2	3.33	10.5
			80/67	37.7	28.9	48.3	3.36	11.2
			85/71	40.9	29.8	51.6	3.39	12.0
110	5	1.8 (4.1)	75/63	29.6	25.3	41.0	3.69	8.0
			80/67	32.0	26.7	43.8	3.76	8.5
			85/71	34.5	27.8	46.6	3.84	9.0
	9	5.1 (11.7)	75/63	31.2	26.0	42.3	3.58	8.7
			80/67	33.9	27.2	45.3	3.64	9.3
			85/71	36.6	28.5	48.3	3.70	9.9
	13	9.8 (22.6)	75/63	31.8	26.5	42.8	3.54	9.0
			80/67	34.6	27.5	45.9	3.60	9.6
			85/71	37.4	28.8	48.9	3.64	10.3



CAPACITY DATA**LV042 1500 NOMINAL CFM (without Max-Evap Option)**

Cooling								
Entering Fluid Temp (°F)	Water Flow (GPM)	Pressure Drop PSI (FOH)	Entering Air Temp (db/wb) °F	Total Capacity (MBTUH)	Sensible Capacity (MBTUH)	Heat of Rejection (MBTUH)	Power Input (kW)	EER
50	5	2.1 (4.8)	75/63	45.2	33.0	53.8	2.72	16.6
			80/67	48.6	34.1	57.3	2.73	17.8
			85/71	52.0	35.1	60.8	2.73	19.0
	10	7.4 (17.0)	75/63	48.1	34.2	56.2	2.49	19.3
			80/67	51.7	35.4	59.9	2.48	20.9
			85/71	55.6	36.2	63.9	2.45	22.7
	13	11.8 (27.0)	75/63	48.8	34.6	56.8	2.44	20.0
			80/67	52.5	35.7	60.6	2.41	21.7
			85/71	56.5	36.6	64.6	2.38	23.7
60	5	2 (4.6)	75/63	42.9	32.0	51.8	2.91	14.7
			80/67	46.1	33.1	55.2	2.93	15.7
			85/71	49.4	34.1	58.7	2.94	16.8
	10	7.1 (16.3)	75/63	45.6	33.1	54.1	2.69	16.9
			80/67	49.2	34.1	57.8	2.68	18.3
			85/71	52.8	35.3	61.6	2.67	19.8
	13	11.4 (26.2)	75/63	46.2	33.4	54.7	2.64	17.5
			80/67	49.9	34.4	58.5	2.62	19.0
			85/71	53.7	35.6	62.3	2.60	20.7
70	5	2 (4.6)	75/63	40.4	30.9	49.8	3.10	13.0
			80/67	43.5	31.9	53.1	3.13	13.9
			85/71	46.7	32.9	56.6	3.16	14.8
	10	6.9 (15.9)	75/63	43.0	31.9	52.0	2.90	14.8
			80/67	46.4	33.1	55.5	2.90	16.0
			85/71	50.0	34.1	59.2	2.90	17.3
	13	11.1 (25.6)	75/63	43.6	32.2	52.5	2.85	15.3
			80/67	47.1	33.4	56.1	2.85	16.5
			85/71	50.8	34.4	59.9	2.83	17.9
80	5	1.9 (4.3)	75/63	37.9	29.7	47.7	3.30	11.5
			80/67	40.9	30.8	51.0	3.35	12.2
			85/71	43.8	32.0	54.1	3.38	13.0
	10	6.7 (15.4)	75/63	40.3	30.7	49.7	3.12	12.9
			80/67	43.6	31.8	53.2	3.13	13.9
			85/71	47.0	33.0	56.8	3.14	15.0
	13	10.7 (24.7)	75/63	40.9	31.0	50.2	3.07	13.3
			80/67	44.3	32.1	53.8	3.08	14.4
			85/71	47.7	33.3	57.4	3.07	15.5
85	5	1.9 (4.3)	75/63	36.6	29.1	46.6	3.40	10.7
			80/67	39.4	30.5	49.7	3.45	11.4
			85/71	42.4	31.3	53.0	3.49	12.1
	10	6.6 (15.2)	75/63	38.9	30.1	48.6	3.23	12.0
			80/67	42.0	31.4	51.9	3.25	12.9
			85/71	45.3	32.6	55.4	3.26	13.9
	13	10.5 (24.2)	75/63	39.5	30.3	49.1	3.18	12.4
			80/67	42.7	31.7	52.5	3.20	13.4
			85/71	46.1	32.8	56.0	3.20	14.4
90	5	1.9 (4.3)	75/63	35.1	28.7	45.4	3.50	10.0
			80/67	38.0	29.9	48.5	3.55	10.7
			85/71	40.9	30.8	51.8	3.60	11.4
	10	6.5 (14.9)	75/63	37.5	29.4	47.4	3.34	11.2
			80/67	40.6	30.7	50.8	3.36	12.1
			85/71	43.8	31.8	54.2	3.38	13.0
	13	10.4 (23.9)	75/63	38.0	29.7	47.9	3.30	11.5
			80/67	41.2	30.9	51.3	3.32	12.4
			85/71	44.5	32.1	54.8	3.33	13.4
100	5	1.8 (4.1)	75/63	32.5	27.5	43.1	3.69	8.8
			80/67	35.1	28.8	46.1	3.76	9.3
			85/71	37.9	29.7	49.2	3.82	9.9
	10	6.3 (14.5)	75/63	34.5	28.4	44.9	3.55	9.7
			80/67	37.5	29.7	48.1	3.59	10.4
			85/71	40.6	30.7	51.5	3.63	11.2
	13	10.1 (23.2)	75/63	35.0	28.6	45.3	3.51	10.0
			80/67	38.0	29.9	48.6	3.55	10.7
			85/71	41.2	30.9	52.0	3.58	11.5
110	5	1.8 (4.1)	75/63	29.7	26.2	40.7	3.88	7.7
			80/67	32.2	27.4	43.6	3.96	8.1
			85/71	34.7	28.6	46.6	4.03	8.6
	10	6.1 (14.0)	75/63	31.5	27.2	42.3	3.76	8.4
			80/67	34.3	28.5	45.4	3.82	9.0
			85/71	37.1	29.7	48.6	3.86	9.6
	13	9.8 (22.6)	75/63	32.0	27.3	42.7	3.73	8.6
			80/67	34.8	28.7	45.8	3.78	9.2
			85/71	37.8	29.7	49.1	3.82	9.9



LV SERIES POOL DEHUMIDIFIERS

CAPACITY DATA

LV048 1600 NOMINAL CFM (without Max-Evap Option)

Cooling								
Entering Fluid Temp (°F)	Water Flow (GPM)	Pressure Drop PSI (FOH)	Entering Air Temp (db/wb) °F	Total Capacity (MBTUH)	Sensible Capacity (MBTUH)	Heat of Rejection (MBTUH)	Power Input (kW)	EER
50	6	0.9 (2.0)	75/63	52.8	38.0	62.5	2.95	17.9
			80/67	56.3	39.1	66.0	2.97	19.0
			85/71	59.9	40.1	69.8	2.99	20.1
	12	3 (6.9)	75/63	56.5	39.7	65.2	2.63	21.5
			80/67	60.3	40.7	68.9	2.61	23.1
			85/71	64.3	41.6	72.9	2.58	24.9
	16	5.1 (11.7)	75/63	57.5	40.1	65.9	2.54	22.7
			80/67	61.4	41.1	69.8	2.51	24.5
			85/71	65.5	42.1	73.8	2.46	26.6
60	6	0.8 (1.8)	75/63	49.9	36.8	60.3	3.19	15.6
			80/67	53.3	37.9	63.8	3.23	16.5
			85/71	56.9	39.0	67.5	3.26	17.5
	12	2.9 (6.6)	75/63	53.4	38.3	62.9	2.91	18.4
			80/67	57.1	39.3	66.6	2.90	19.7
			85/71	61.0	40.4	70.6	2.89	21.1
	16	4.9 (11.3)	75/63	54.3	38.6	63.6	2.83	19.2
			80/67	58.1	39.7	67.4	2.81	20.7
			85/71	62.1	40.8	71.4	2.79	22.3
70	6	0.8 (1.8)	75/63	46.9	35.5	57.9	3.43	13.7
			80/67	50.3	36.6	61.6	3.48	14.5
			85/71	53.8	37.7	65.2	3.52	15.3
	12	2.8 (6.4)	75/63	50.2	36.8	60.5	3.18	15.8
			80/67	53.8	38.0	64.2	3.19	16.9
			85/71	57.6	39.1	68.1	3.19	18.0
	16	4.7 (10.8)	75/63	51.0	37.1	61.1	3.11	16.4
			80/67	54.7	38.3	64.9	3.11	17.6
			85/71	58.7	39.5	68.9	3.10	18.9
80	6	0.8 (1.8)	75/63	43.9	34.1	55.6	3.67	12.0
			80/67	47.2	35.2	59.2	3.73	12.7
			85/71	50.5	36.7	62.7	3.78	13.4
	12	2.7 (6.2)	75/63	46.8	35.3	57.9	3.44	13.6
			80/67	50.4	36.5	61.7	3.47	14.5
			85/71	54.2	37.7	65.6	3.49	15.5
	16	4.6 (10.6)	75/63	47.6	35.6	58.5	3.38	14.1
			80/67	51.3	36.9	62.3	3.40	15.1
			85/71	55.1	38.0	66.3	3.41	16.2
85	6	0.8 (1.8)	75/63	42.3	33.3	54.4	3.78	11.2
			80/67	45.5	34.9	57.8	3.85	11.8
			85/71	48.9	35.7	61.6	3.92	12.5
	12	2.7 (6.2)	75/63	45.2	34.5	56.6	3.57	12.7
			80/67	48.7	35.8	60.4	3.61	13.5
			85/71	52.3	37.2	64.2	3.64	14.4
	16	4.5 (10.3)	75/63	45.9	34.9	57.2	3.51	13.1
			80/67	49.5	36.1	61.0	3.54	14.0
			85/71	53.3	37.5	64.9	3.56	15.0
90	6	0.8 (1.8)	75/63	40.7	32.9	53.1	3.90	10.5
			80/67	44.0	33.9	56.7	3.98	11.1
			85/71	47.3	35.2	60.3	4.05	11.7
	12	2.6 (5.9)	75/63	43.5	33.7	55.3	3.70	11.8
			80/67	46.9	35.3	59.0	3.75	12.5
			85/71	50.6	36.3	62.9	3.79	13.4
	16	4.4 (10.1)	75/63	44.2	34.1	55.9	3.65	12.1
			80/67	47.7	35.6	59.6	3.68	13.0
			85/71	51.5	36.7	63.5	3.72	13.9
100	6	0.7 (1.6)	75/63	37.5	31.5	50.6	4.12	9.1
			80/67	40.6	32.9	54.1	4.22	9.6
			85/71	43.7	34.2	57.6	4.31	10.2
	12	2.6 (5.9)	75/63	40.0	32.3	52.6	3.95	10.1
			80/67	43.3	33.9	56.2	4.02	10.8
			85/71	46.9	35.0	60.0	4.08	11.5
	16	4.3 (9.9)	75/63	40.6	32.6	53.1	3.91	10.4
			80/67	44.0	34.2	56.7	3.96	11.1
			85/71	47.7	35.3	60.7	4.02	11.9
110	6	0.7 (1.6)	75/63	34.4	30.2	48.2	4.35	7.9
			80/67	37.2	31.7	51.4	4.46	8.3
			85/71	40.2	33.0	54.8	4.57	8.8
	12	2.5 (5.7)	75/63	36.5	30.9	49.8	4.20	8.7
			80/67	39.6	32.5	53.3	4.29	9.2
			85/71	43.0	34.0	57.0	4.36	9.9
	16	4.2 (9.6)	75/63	37.0	31.1	50.2	4.17	8.9
			80/67	40.3	32.5	53.9	4.25	9.5
			85/71	43.7	34.3	57.5	4.31	10.2



CAPACITY DATA**LV060 2000 NOMINAL CFM (without Max-Evap Option)**

Cooling								
Entering Fluid Temp (°F)	Water Flow (GPM)	Pressure Drop PSI (FOH)	Entering Air Temp (db/wb) °F	Total Capacity (MBTUH)	Sensible Capacity (MBTUH)	Heat of Rejection (MBTUH)	Power Input (kW)	EER
50	8	1.7 (3.9)	75/63	65.6	47.0	77.2	3.52	18.7
			80/67	70.0	48.3	81.8	3.56	19.7
			85/71	74.5	49.6	86.6	3.62	20.6
	13	4 (9.2)	75/63	67.6	47.9	78.5	3.28	20.6
			80/67	72.2	49.2	83.3	3.31	21.8
			85/71	77.1	50.5	88.3	3.35	23.1
	20	8.6 (19.8)	75/63	68.7	48.4	79.2	3.14	21.9
			80/67	73.5	49.8	84.1	3.16	23.2
			85/71	78.6	51.1	89.3	3.19	24.7
60	8	1.6 (3.6)	75/63	63.0	45.9	75.6	3.83	16.5
			80/67	67.2	47.2	80.1	3.88	17.3
			85/71	71.7	48.5	84.7	3.93	18.2
	13	3.8 (8.7)	75/63	64.9	46.7	76.8	3.59	18.1
			80/67	69.4	48.1	81.5	3.62	19.2
			85/71	74.2	49.3	86.4	3.66	20.3
	20	8.3 (19.1)	75/63	66.0	47.2	77.5	3.46	19.1
			80/67	70.7	48.6	82.3	3.48	20.3
			85/71	75.6	49.9	87.3	3.51	21.6
70	8	1.5 (3.4)	75/63	60.2	44.7	74.0	4.17	14.4
			80/67	64.4	46.1	78.3	4.22	15.3
			85/71	68.7	47.2	82.9	4.28	16.1
	13	3.7 (8.5)	75/63	62.1	45.5	75.1	3.93	15.8
			80/67	66.5	46.8	79.7	3.96	16.8
			85/71	71.1	48.1	84.4	4.00	17.8
	20	8.1 (18.6)	75/63	63.2	46.0	75.8	3.80	16.6
			80/67	67.7	47.3	80.4	3.82	17.7
			85/71	72.5	48.6	85.3	3.85	18.8
80	8	1.5 (3.4)	75/63	57.4	43.5	72.4	4.56	12.6
			80/67	61.5	44.8	76.6	4.61	13.4
			85/71	65.6	45.9	81.0	4.66	14.1
	13	3.6 (8.3)	75/63	59.3	44.2	73.4	4.31	13.8
			80/67	63.5	45.6	77.8	4.34	14.6
			85/71	67.9	46.8	82.4	4.38	15.5
	20	7.8 (17.9)	75/63	60.2	44.6	74.0	4.17	14.4
			80/67	64.6	46.0	78.5	4.20	15.4
			85/71	69.2	47.3	83.2	4.22	16.4
85	8	1.5 (3.4)	75/63	56.0	42.7	71.7	4.77	11.8
			80/67	60.0	44.1	75.8	4.82	12.5
			85/71	64.0	45.5	80.0	4.87	13.1
	13	3.5 (8.0)	75/63	57.8	43.5	72.6	4.51	12.8
			80/67	62.0	44.9	76.9	4.55	13.6
			85/71	66.3	46.1	81.5	4.58	14.5
	20	7.7 (17.7)	75/63	58.7	43.9	73.1	4.38	13.4
			80/67	63.0	45.4	77.6	4.40	14.3
			85/71	67.5	46.6	82.2	4.43	15.3
90	8	1.5 (3.4)	75/63	54.6	42.1	70.9	4.99	10.9
			80/67	58.5	43.4	75.0	5.04	11.6
			85/71	62.4	44.7	79.2	5.10	12.2
	13	3.5 (8.0)	75/63	56.3	42.8	71.8	4.73	11.9
			80/67	60.4	44.2	76.1	4.76	12.7
			85/71	64.5	45.8	80.3	4.80	13.5
	20	7.6 (17.5)	75/63	57.2	43.2	72.3	4.60	12.4
			80/67	61.4	44.7	76.6	4.62	13.3
			85/71	65.7	46.2	81.1	4.64	14.2
100	8	1.4 (3.2)	75/63	51.7	40.7	69.6	5.49	9.4
			80/67	55.3	42.2	73.5	5.54	10.0
			85/71	59.1	43.5	77.4	5.59	10.6
	13	3.4 (7.8)	75/63	53.2	41.4	70.3	5.22	10.2
			80/67	57.1	42.9	74.4	5.25	10.9
			85/71	61.2	44.2	78.5	5.28	11.6
	20	7.3 (16.8)	75/63	54.1	41.8	70.7	5.08	10.6
			80/67	58.0	43.5	74.7	5.10	11.4
			85/71	62.2	44.9	79.0	5.12	12.2
110	8	1.4 (3.2)	75/63	48.5	39.4	68.4	6.08	8.0
			80/67	52.0	40.9	72.1	6.12	8.5
			85/71	55.6	42.3	75.8	6.17	9.0
	13	3.3 (7.6)	75/63	50.0	40.0	68.9	5.79	8.6
			80/67	53.6	41.8	72.7	5.81	9.2
			85/71	57.4	43.3	76.6	5.84	9.8
	20	7.1 (16.3)	75/63	50.7	40.5	69.1	5.65	9.0
			80/67	54.5	42.2	73.0	5.65	9.6
			85/71	58.4	43.7	77.1	5.67	10.3



LV SERIES POOL DEHUMIDIFIERS

CAPACITY DATA**LV070 2200 NOMINAL CFM (without Max-Evap Option)**

Cooling								
Entering Fluid Temp (°F)	Water Flow (GPM)	Pressure Drop PSI (FOH)	Entering Air Temp (db/wb) °F	Total Capacity (MBTUH)	Sensible Capacity (MBTUH)	Heat of Rejection (MBTUH)	Power Input (kW)	EER
50	10	2.6 (5.9)	75/63	72.2	53.9	85.4	3.96	18.3
			80/67	77.1	55.5	90.5	4.01	19.3
			85/71	82.2	57.0	95.9	4.06	20.2
	15	5.4 (12.4)	75/63	74.0	54.7	86.6	3.76	19.7
			80/67	79.2	56.3	91.9	3.80	20.9
			85/71	84.5	57.9	97.4	3.84	22.0
	20	9.1 (20.9)	75/63	74.9	55.1	87.2	3.66	20.5
			80/67	80.2	56.7	92.6	3.69	21.8
			85/71	85.7	58.3	98.2	3.72	23.0
60	10	2.5 (5.7)	75/63	69.2	52.5	83.5	4.29	16.1
			80/67	74.0	54.2	88.4	4.34	17.1
			85/71	78.9	55.8	93.6	4.39	18.0
	15	5.2 (11.9)	75/63	71.0	53.3	84.6	4.09	17.3
			80/67	75.9	55.0	89.7	4.13	18.4
			85/71	81.0	56.9	95.0	4.17	19.4
	20	8.7 (20.0)	75/63	71.8	53.7	85.2	4.00	18.0
			80/67	76.9	55.4	90.4	4.03	19.1
			85/71	82.1	57.3	95.7	4.06	20.2
70	10	2.4 (5.5)	75/63	66.1	51.2	81.5	4.65	14.2
			80/67	70.6	52.9	86.2	4.70	15.0
			85/71	75.4	54.5	91.2	4.76	15.9
	15	5 (11.5)	75/63	67.7	51.9	82.5	4.45	15.2
			80/67	72.4	53.9	87.4	4.49	16.1
			85/71	77.5	55.3	92.7	4.53	17.1
	20	8.5 (19.6)	75/63	68.5	52.5	82.9	4.35	15.7
			80/67	73.4	54.3	88.0	4.38	16.8
			85/71	78.5	56.0	93.3	4.42	17.8
80	10	2.4 (5.5)	75/63	62.8	49.8	79.5	5.05	12.4
			80/67	67.2	51.6	84.1	5.10	13.2
			85/71	71.6	53.6	88.7	5.15	13.9
	15	4.9 (11.3)	75/63	64.3	50.7	80.3	4.85	13.3
			80/67	68.9	52.6	85.1	4.88	14.1
			85/71	73.6	54.3	90.0	4.92	15.0
	20	8.2 (18.9)	75/63	65.1	51.1	80.8	4.75	13.7
			80/67	69.8	52.9	85.7	4.78	14.6
			85/71	74.7	54.7	90.7	4.81	15.5
85	10	2.3 (5.3)	75/63	61.0	49.4	78.4	5.27	11.6
			80/67	65.3	51.2	82.9	5.32	12.3
			85/71	69.7	52.9	87.5	5.37	13.0
	15	4.8 (11.0)	75/63	62.7	49.8	79.4	5.07	12.4
			80/67	67.2	51.6	84.1	5.10	13.2
			85/71	71.7	53.6	88.8	5.14	14.0
	20	8.1 (18.6)	75/63	63.5	50.1	79.9	4.97	12.8
			80/67	68.1	51.9	84.6	5.00	13.6
			85/71	72.7	54.0	89.4	5.02	14.5
90	10	2.3 (5.3)	75/63	59.5	48.4	77.6	5.51	10.8
			80/67	63.5	50.5	81.9	5.55	11.4
			85/71	68.0	51.9	86.6	5.61	12.1
	15	4.7 (10.8)	75/63	60.8	49.3	78.3	5.29	11.5
			80/67	65.4	50.9	83.0	5.33	12.3
			85/71	69.8	52.9	87.6	5.37	13.0
	20	7.9 (18.2)	75/63	61.6	49.6	78.7	5.19	11.9
			80/67	66.1	51.5	83.4	5.22	12.7
			85/71	70.9	52.9	88.3	5.26	13.5
100	10	2.2 (5.0)	75/63	55.9	47.4	75.7	6.02	9.3
			80/67	59.9	49.2	79.9	6.07	9.9
			85/71	64.1	50.6	84.3	6.13	10.5
	15	4.6 (10.6)	75/63	57.3	47.8	76.4	5.81	9.9
			80/67	61.5	49.8	80.7	5.84	10.5
			85/71	65.8	51.5	85.2	5.87	11.2
	20	7.7 (17.7)	75/63	57.9	48.1	76.7	5.71	10.2
			80/67	62.2	50.3	81.1	5.72	10.9
			85/71	66.8	51.5	85.9	5.76	11.6
110	10	2.1 (4.8)	75/63	52.3	45.8	74.1	6.64	7.9
			80/67	56.0	47.8	78.0	6.68	8.4
			85/71	59.9	49.5	82.1	6.73	8.9
	15	4.5 (10.3)	75/63	53.7	46.1	74.8	6.41	8.4
			80/67	57.7	48.0	78.9	6.43	9.0
			85/71	61.6	50.3	82.9	6.46	9.5
	20	7.5 (17.2)	75/63	54.2	46.7	74.9	6.30	8.6
			80/67	58.3	48.5	79.1	6.32	9.2
			85/71	62.5	50.3	83.4	6.34	9.9



UNIT ELECTRICAL DATA

Standard Blower Motor LV007-LV070

Model	Voltage Code	Voltage/Hz/ Phase	Voltage Min/Max	Compressor			Blower Motor			Min. Circuit Amps	HACR Breaker
				Quantity	RLA	LRA	FLA	HP	Total Unit FLA		
LV007	1	208-230/1/60	197/253	1	2.6	17.7	0.96	0.1	3.6	4.2	15
	2	265/1/60	238/292	1	2.6	13.5	0.96	0.1	3.6	4.2	15
LV009	1	208-230/1/60	197/253	1	3.4	22.2	0.96	0.1	4.4	5.2	15
	2	265/1/60	238/292	1	2.9	18.8	0.85	0.1	3.8	4.5	15
LV012	0	115/1/60	103/126	1	9.6	58.4	2.2	0.1	11.8	14.2	20
	1	208-230/1/60	197/253	1	4.6	28.0	0.96	0.1	5.6	6.7	15
LV015	2	265/1/60	238/292	1	3.8	22.2	0.85	0.1	4.7	5.6	15
	1	208-230/1/60	197/253	1	5.6	29.0	1.10	0.17	6.7	8.1	15
LV018	2	265/1/60	238/292	1	4.6	20.0	0.90	0.17	5.5	6.7	15
	1	208-230/1/60	197/253	1	6.5	43.0	1.8	0.25	8.3	9.9	15
LV024	2	265/1/60	238/292	1	5.8	46.0	1.6	0.25	7.4	8.9	15
	1	208-230/1/60	197/253	1	7.4	43.0	1.8	0.25	9.2	11.1	15
LV030	2	265/1/60	238/292	1	6.7	46.0	1.6	0.25	8.3	10.0	15
	3	208-230/3/60	197/253	1	5.9	63.0	1.8	0.25	7.7	9.2	15
LV036	4	460/3/60	414/506	1	2.9	30.0	0.9	0.25	3.8	4.5	15
	1	208-230/1/60	197/253	1	9.9	54.0	1.8	0.25	11.7	14.2	20
LV041	2	265/1/60	238/292	1	8.5	46.0	1.6	0.25	10.1	12.2	20
	3	208-230/3/60	197/253	1	6.9	63.0	1.8	0.25	8.7	10.4	15
LV042	4	460/3/60	414/506	1	5.4	30.0	0.9	0.25	6.3	7.7	15
	1	208-230/1/60	197/253	1	13	74.0	4.4	0.5	17.4	20.7	30
LV048	2	265/1/60	238/292	1	11.3	67.0	3.3	0.5	14.6	17.4	25
	3	208-230/3/60	197/253	1	7.8	68.0	4.4	0.5	12.2	14.2	20
LV060	4	460/3/60	414/506	1	3.9	34.0	1.8	0.5	5.7	6.7	15
	1	208-230/1/60	197/253	1	13.6	88.0	4.4	0.75	18.0	21.4	35
LV070	3	208-230/3/60	197/253	1	8.8	68.0	4.4	0.75	13.2	15.4	20
	4	460/3/60	414/506	1	4.4	34.0	2.8	0.75	7.2	8.3	15
LV048	1	208-230/1/60	197/253	1	13.6	88.0	4.4	0.5	18.0	21.4	35
	3	208-230/3/60	197/253	1	11	88.0	4.4	0.75	15.4	18.2	25
LV060	4	460/3/60	414/506	1	5.4	44.0	2.8	0.75	8.2	9.6	15
	5	575/3/60	517/633	1	4.4	36.0	2.6	0.75	7.0	8.1	15
LV070	1	208-230/1/60	197/253	1	26.3	134.0	5.5	0.75	31.8	38.4	60
	3	208-230/3/60	197/253	1	15.6	110.0	5.5	0.75	21.1	25.0	40
LV070	4	460/3/60	414/506	1	7.8	52.0	2.8	0.75	10.6	12.6	20
	5	575/3/60	517/633	1	5.8	38.9	2.6	0.75	8.4	9.9	15
LV070	1	208-230/1/60	197/253	1	28.3	178.0	5.5	0.75	33.8	40.9	60
	3	208-230/3/60	197/253	1	19.2	136.0	5.5	0.75	24.7	29.5	45
LV070	4	460/3/60	414/506	1	8.7	66.1	2.8	0.75	11.5	13.7	20
	5	575/3/60	517/633	1	6.9	55.3	2.6	0.75	9.5	11.2	15

208/230V units shipped with transformer wired for 230V—for 208V remove orange transformer primary lead and replace with red lead.
All blower motors are single phase.

UNIT POWER SUPPLY: A voltage variation of +/- 10% of nameplate rating is acceptable. Phase imbalance shall not exceed 2%.



UNIT ELECTRICAL DATA

ECM Constant Torque LV015-LV070

Model	Voltage Code	Voltage/Hz/ Phase	Voltage Min/Max	Compressor			Blower Motor			Min. Circuit Amps	HACR Breaker
				Quantity	RLA	LRA	FLA	HP	Total Unit FLA		
LV015	1	208-230/1/60	197/253	1	5.6	29.0	2.80	0.33	8.4	9.8	15
	2	265/1/60	238/292	1	4.6	20.0	2.60	0.33	7.2	8.4	15
LV018	1	208-230/1/60	197/253	1	6.5	43.0	2.8	0.33	9.3	10.9	15
	2	265/1/60	238/292	1	5.8	46.0	2.6	0.33	8.4	9.9	15
LV024	1	208-230/1/60	197/253	1	7.4	43.0	2.8	0.33	10.2	12.1	15
	2	265/1/60	238/292	1	6.7	46.0	2.6	0.33	9.3	11.0	15
	3	208-230/3/60	197/253	1	5.9	63.0	2.8	0.33	8.7	10.2	15
	4	460/3/60	414/506	1	2.9	30.0	2.1	0.50	5.0	5.7	15
LV030	1	208-230/1/60	197/253	1	9.9	54.0	2.8	0.33	12.7	15.2	25
	2	265/1/60	238/292	1	8.5	46.0	2.6	0.33	11.1	13.2	20
	3	208-230/3/60	197/253	1	6.9	63.0	2.8	0.33	9.7	11.4	15
	4	460/3/60	414/506	1	5.4	30.0	2.1	0.50	7.5	8.9	15
LV036	1	208-230/1/60	197/253	1	13	74.0	4.1	0.5	17.1	20.4	30
	2	265/1/60	238/292	1	11.3	67.0	3.9	0.5	15.2	18.0	25
	3	208-230/3/60	197/253	1	7.8	68.0	4.1	0.5	11.9	13.9	20
	4	460/3/60	414/506	1	3.9	34.0	2.1	0.5	6.0	7.0	15
LV041	1	208-230/1/60	197/253	1	13.6	88.0	6.0	0.75	19.6	23.0	35
	3	208-230/3/60	197/253	1	8.8	68.0	6.0	0.75	14.8	17.0	25
	4	460/3/60	414/506	1	4.4	34.0	4.6	0.75	9.0	10.1	15
LV042	1	208-230/1/60	197/253	1	13.6	88.0	6.0	0.75	19.6	23.0	35
	3	208-230/3/60	197/253	1	8.8	68.0	6.0	0.75	14.8	17.0	25
	4	460/3/60	414/506	1	4.4	34.0	4.6	0.75	9.0	10.1	15
LV048	1	208-230/1/60	197/253	1	15.7	84.0	6.0	0.75	21.7	25.6	40
	3	208-230/3/60	197/253	1	11	88.0	6.0	0.75	17.0	19.8	30
	4	460/3/60	414/506	1	5.4	44.0	4.6	0.75	10.0	11.4	15
LV060	1	208-230/1/60	197/253	1	26.3	145.0	7.6	1.00	33.9	40.5	60
	3	208-230/3/60	197/253	1	15.6	123.0	7.6	1.00	23.2	27.1	40
	4	460/3/60	414/506	1	7.8	70.0	4.0	1.00	11.8	13.8	20
LV070	1	208-230/1/60	197/253	1	28.3	158.0	7.6	1.00	35.9	43.0	70
	3	208-230/3/60	197/253	1	19.2	155.0	7.6	1.00	26.8	31.6	50
	4	460/3/60	414/506	1	8.7	75.0	4.0	1.00	12.7	14.9	20

BLOWER PERFORMANCE CFM

Standard PSC Blower Motor LV007-LV070

Model	Available External Static Pressure (in. wc. wet coil and filter included)													
	Motor Speed	Rated Airflow	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	1.00	1.10	1.20
LV007	Low		370	340	295	250	-	-	-	-	-	-	-	-
	Medium	300	390	360	330	300	260	-	-	-	-	-	-	-
	High		410	380	350	315	280	210	-	-	-	-	-	-
LV009	Low		370	340	295	250	-	-	-	-	-	-	-	-
	Medium		390	360	330	300	260	-	-	-	-	-	-	-
	High	350	410	380	350	315	280	210	-	-	-	-	-	-
LV012	Low		300	290	290	300	-	-	-	-	-	-	-	-
	Medium		380	380	360	330	290	-	-	-	-	-	-	-
	High	400	420	400	380	360	340	320	-	-	-	-	-	-
LV015	Low		500	450	400	-	-	-	-	-	-	-	-	-
	Medium		560	520	480	430	400							
	High	500	700	650	600	550	500	450	400	-	-	-	-	-
LV018	Low		630	590	560	-	-	-	-	-	-	-	-	-
	Medium	650	810	790	760	730	680	590	-	-	-	-	-	-
	High		1010	970	920	870	800	680	530	-	-	-	-	-
LV024	Low		650	610	570	540	510	-	-	-	-	-	-	-
	Medium		830	820	800	770	720	620	-	-	-	-	-	-
	High	850	1050	1000	950	910	840	710	570	-	-	-	-	-
LV030	Low		740	730	700	660	610	-	-	-	-	-	-	-
	Medium		830	810	770	730	680	620	-	-	-	-	-	-
	High	950	1000	950	900	830	750	690	630	-	-	-	-	-
LV036	Low		1290	1250	1200	1150	1080	1000	-	-	-	-	-	-
	Medium		1410	1350	1290	1220	1150	1060	900	-	-	-	-	-
	High	1200	1500	1440	1370	1290	1210	1120	1000	900	-	-	-	-
LV041	Low		950	900	840	780	720	700	-	-	-	-	-	-
	Medium		1200	1140	1080	1010	930	870	820	-	-	-	-	-
	High	1300	1490	1400	1320	1240	1160	1080	990	910	-	-	-	-
LV042	Low		1210	1210	1190	1160	1120	1080	-	-	-	-	-	-
	Medium		1460	1450	1430	1390	1330	1250	1160	-	-	-	-	-
	High	1400	1750	1710	1670	1620	1560	1460	1330	1210	1080	-	-	-
LV048	Low		1450	1440	1420	1400	1360	1320	-	-	-	-	-	-
	Medium		1700	1670	1630	1580	1530	1470	1400	-	-	-	-	-
	High	1600	1930	1870	1810	1740	1670	1600	1520	1430	1340	-	-	-
LV060	Low		1560	1550	1540	1530	1505	1475	1440	1400	-	-	-	-
	Medium		1890	1880	1870	1860	1825	1790	1730	1670	1590	1500	-	-
	High	2000	2220	2200	2150	2100	2050	2000	1940	1870	1800	1700	1590	-
LV070	Low		1570	1560	1550	1540	1530	1505	1475	1440	1400	-	-	-
	Medium		1900	1890	1880	1870	1860	1825	1790	1730	1670	1590	1500	-
	High	2100	2240	2220	2200	2150	2100	2050	2000	1940	1870	1800	1700	1590



LV SERIES POOL DEHUMIDIFIERS

BLOWER PERFORMANCE CFM

ECM Constant Torque LV015-LV070

Model	Available External Static Pressure (in. wc. wet coil and filter included)													
	Tap #	Rated Airflow	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	1.00	1.10	1.20
LV015	1	500	480	440	410	370	340	-	-	-	-	-	-	-
	2		530	490	450	420	380	340	-	-	-	-	-	-
	3		600	560	510	470	440	410	370	-	-	-	-	-
	4		650	600	560	520	500	480	440	380	-	-	-	-
	5		710	660	620	580	550	520	490	470	-	-	-	-
LV018	1	650	630	590	560	530	490	-	-	-	-	-	-	-
	2		720	700	670	630	600	560	-	-	-	-	-	-
	3		790	770	750	710	670	620	560	-	-	-	-	-
	4		910	890	850	810	740	670	590	520	-	-	-	-
	5		1010	970	920	860	810	750	660	530	-	-	-	-
LV024	1	850	650	610	580	560	520	-	-	-	-	-	-	-
	2		740	720	690	660	620	570	-	-	-	-	-	-
	3		850	830	800	770	730	690	630	-	-	-	-	-
	4		950	920	890	870	840	820	770	650	-	-	-	-
	5		1160	1110	1050	990	920	800	670	560	-	-	-	-
LV030	1	950	620	600	570	540	490	-	-	-	-	-	-	-
	2		730	710	670	640	610	550	-	-	-	-	-	-
	3		820	790	760	740	710	670	630	-	-	-	-	-
	4		940	910	880	850	800	740	660	-	-	-	-	-
	5		1070	1010	950	900	840	760	670	-	-	-	-	-
LV036	1	1200	1120	1090	1055	1030	1000	-	-	-	-	-	-	-
	2		1260	1230	1200	1170	1140	1080	-	-	-	-	-	-
	3		1330	1290	1250	1210	1170	1100	1030	-	-	-	-	-
	4		1400	1360	1310	1250	1190	1120	1040	960	-	-	-	-
	5		1470	1420	1360	1290	1220	1140	1050	970	890	-	-	-
LV041	1	1300	840	770	700	620	-	-	-	-	-	-	-	-
	2		1220	1150	1080	1010	950	-	-	-	-	-	-	-
	3		1430	1360	1280	1200	1130	1080	-	-	-	-	-	-
	4		1540	1460	1380	1300	1220	1140	1060	-	-	-	-	-
	5		1620	1550	1470	1370	1260	1180	1090	1000	-	-	-	-
LV042	1	1400	1270	1250	1230	1210	-	-	-	-	-	-	-	-
	2		1440	1420	1410	1410	1400	1380	1340	-	-	-	-	-
	3		1540	1530	1510	1500	1490	1470	1430	1350	-	-	-	-
	4		1650	1630	1610	1600	1580	1530	1460	1360	1240	-	-	-
	5		1730	1720	1700	1670	1620	1570	1490	1380	1260	1100	-	-
LV048	1	1600	1390	1370	1350	1320	-	-	-	-	-	-	-	-
	2		1600	1580	1550	1530	1510	-	-	-	-	-	-	-
	3		1730	1700	1670	1650	1630	1600	1580	1540	-	-	-	-
	4		1830	1810	1780	1760	1740	1710	1670	1600	1520	-	-	-
	5		1930	1910	1880	1860	1830	1780	1720	1640	1540	1420	-	-
LV060	1	2000	1900	1880	1860	1820	-	-	-	-	-	-	-	-
	2		2000	1970	1950	1920	1890	1860	-	-	-	-	-	-
	3		2110	2090	2060	2030	2010	1970	1940	1910	1880	-	-	-
	4		2220	2200	2170	2140	2110	2080	2050	2060	2050	2000	1920	-
	5		2340	2320	2290	2260	2230	2210	2180	2150	2110	2070	2000	1930
LV070	1	2100	2050	2010	1970	1930	-	-	-	-	-	-	-	-
	2		2150	2120	2080	2030	1990	1960	-	-	-	-	-	-
	3		2270	2230	2200	2160	2120	2080	2040	2010	1980	-	-	-
	4		2390	2350	2320	2280	2250	2200	2160	2130	2100	2070	2030	-
	5		2520	2480	2450	2420	2380	2330	2290	2260	2220	2170	2100	2020

PHYSICAL DATA LV007-LV070

	LV Models	LV007	LV009	LV012	LV015	LV018	LV024	LV030
PSC Fan Motor & Blower	Compressor Type (Qty. 1)	Rotary	Rotary	Rotary	Rotary	Reciprocating	Reciprocating	Reciprocating
	Max. Water Working Pressure (PSIG/kPa)	400	400	400	400	400	400	400
	Fan Motor Type/Speeds	PSC/3	PSC/3	PSC/3	PSC/3	PSC/3	PSC/3	PSC/3
	Fan Motor (HP)	1/10	1/10	1/10	1/6	1/4	1/4	1/4
ECM Fan Motor & Blower	Blower Wheel Size (Dia. x W)	4.5 x 4.5	4.5 x 4.5	5.5 x 4.5	9 x 7	9 x 7	9 x 7	9 x 7
	Fan Motor Type/Speeds	N/A	N/A	N/A	X13 / EON	X13 / EON	X13 / EON	X13 / EON
	Fan Motor (HP)	N/A	N/A	N/A	1/3	1/3	1/3* / 1/2	1/3* / 1/2
Water Connection Size	Blower Wheel Size (Dia. x W)	N/A	N/A	N/A	9 x 7	9 x 7	9 x 7	9 x 7
	FPT	3/4	3/4	3/4	3/4	3/4	3/4	3/4
	Coaxial Coil Volume (gal)	0.04	0.06	0.08	0.09	0.14	0.14	0.24
Vertical Cabinet	Condensate Connection in. FPT	3/4	3/4	3/4	3/4	3/4	3/4	3/4
	Refrigeration Charge (oz)	14	15	21	19	28	29	37
	Air Coil Dimensions (H x W)	10 x 14	10 x 14	10 x 14	12 x 16.5	16 x 16.5	20 x 16.5	20 x 16.5
	Std. Filter - 1" Throwaway (L x H)	10 x 16	10 x 16	10 x 16	16 x 20	16 x 20	20 x 20	20 x 20
	Opt. Filter - 2" MERV-8 or -13 Throwaway (L x H)	10 x 16	10 x 16	10 x 16	16 x 20	16 x 20	20 x 20	20 x 20
	Weight - Operating (lbs)	98	103	105	123	173	177	190
	Weight - Shipping (lbs)	126	130	132	151	201	205	217
Horizontal Cabinet	Refrigeration Charge (oz)	17	19	19	19	29	29	39
	Air Coil Dimensions (H x W)	10 x 14	10 x 14	10 x 14	12 x 16.5	16 x 16.5	16 x 20.5	16 x 20.5
	Std. Filter - 1" Throwaway (L x H)	10 x 16	10 x 16	10 x 16	16 x 20	16 x 20	16 x 25	16 x 25
	Opt. Filter - 2" MERV-8 or -13 Throwaway (L x H)	10 x 16	10 x 16	10 x 16	16 x 20	16 x 20	16 x 25	16 x 25
	Weight - Operating (lbs)	98	103	105	127	177	181	194
	Weight - Shipping (lbs)	128	132	134	158	208	212	224

	LV Models	LV036	LV041	LV042	LV048	LV060	LV070
PSC Fan Motor & Blower	Compressor Type (Qty. 1)	Reciprocating	Reciprocating	Reciprocating	Scroll	Scroll	Scroll
	Max Water Working Pressure (PSIG/kPa)	400	400	400	400	400	400
	Fan Motor Type/Speeds	PSC/3	PSC/3	PSC/3	PSC/3	PSC/3	PSC/3
	Fan Motor (HP)	1/2	1/2	1/2	3/4	3/4	3/4+
ECM Fan Motor & Blower	Blower Wheel Size (Dia. x W)	9x7	10x8	10x8	10x8	11x9	11x9
	Fan Motor Type/Speeds	X13 / EON	X13 / EON	X13 / EON	X13 / EON	X13 / EON	X13 / EON
	Fan Motor (HP)	1/2	1/2	3/4	3/4	1	1
Water Connection Size	Blower Wheel Size (Dia. x W)	9x7	10x8	10x8	10x8	11x9	11x9
	FPT	3/4	3/4	3/4	1	1	1
	Coaxial Coil Volume (gal)	0.27	0.27	0.27	0.49	0.62	0.62
Vertical Cabinet	Condensate Connection in. FPT	3/4	3/4	3/4	3/4	3/4	3/4
	Refrigeration Charge (oz)	48	48	48	52	59	73
	Air Coil Dimensions (H x W)	24x20.2	20x16	24x20.2	24x26.75	24x26.75	32x26.2
	Std. Filter - 1" Throwaway (L x H)	24x24	20x20	24x24	24x30	24x30	16x30 @2
	Opt. Filter - 2" MERV-8 or -13 Throwaway (L x H)	24x24	20x20	24x24	24x30	24x30	16x30 @2
	Weight - Operating (lbs)	229	217	239	287	307	336
	Weight - Shipping (lbs)	255	243	265	312	331	360
Horizontal Cabinet	Refrigeration Charge (oz)	46	N/A	43	44	64	61
	Air Coil Dimensions (H x W)	18x27.5	N/A	18x27.5	20x32	20x32	20x42
	Std. Filter - 1" Throwaway (L x H)	18x30	N/A	18x30	20x34.5	20x34.5	20x24 @2
	Opt. Filter - 2" MERV-8 or -13 Throwaway (L x H)	18x30	N/A	18x30	20x34.5	20x34.5	20x24 @2
	Weight - Operating (lbs)	237	N/A	231	268	288	316
	Weight - Shipping (lbs)	270	N/A	264	299	318	365

* Unit sizes 024 & 030 with -4 voltage (460/3/60), the X13 motor will be 1/2 HP rather than 1/3 HP.



LV SERIES POOL DEHUMIDIFIERS

HORIZONTAL CABINET CORNER WEIGHTS LV007-LV070

Configuration		Left Hand Evaporator				Right Hand Evaporator				
Model		Total	Left Front*	Right Front*	Left Back	Right Back	Left Front*	Right Front*	Left Back	Right Back
LVH007	Lbs	98	28	21	25	24	21	28	24	25
	kg	45	13	10	11	11	10	13	11	11
LVH009	Lbs	103	29	23	26	25	23	29	25	26
	kg	47	13	10	12	11	10	13	11	12
LVH012	Lbs	105	29	24	26	26	24	29	26	26
	kg	48	13	11	12	12	11	13	12	12
LVH015	Lbs	127	36	28	34	29	28	36	29	34
	kg	58	16	13	15	13	13	16	13	15
LVH018	Lbs	177	57	36	48	37	36	57	37	48
	kg	80	26	16	22	17	16	26	17	22
LVH024	Lbs	181	58	37	48	38	37	58	38	48
	kg	82	26	17	22	17	17	26	17	22
LVH030	Lbs	194	61	41	52	41	41	61	41	52
	kg	88	28	18	23	19	18	28	19	23
LVH036	Lbs	237	71	49	66	52	49	71	52	66
	kg	108	32	22	30	24	22	32	24	30
LVH042	Lbs	231	70	47	64	50	47	70	50	64
	kg	105	32	21	29	23	21	32	23	29
LVH048	Lbs	268	87	60	62	60	60	87	60	62
	kg	122	39	27	28	27	27	39	27	28
LVH060	Lbs	288	88	65	69	66	65	88	66	69
	kg	131	40	29	31	30	29	40	30	31
LVH070	Lbs	316	98	72	76	70	72	98	70	76
	kg	143	44	32	35	32	32	44	32	35

NOTE: * Front is control box end.



VERTICAL UNIT DIMENSIONS LV007-LV070

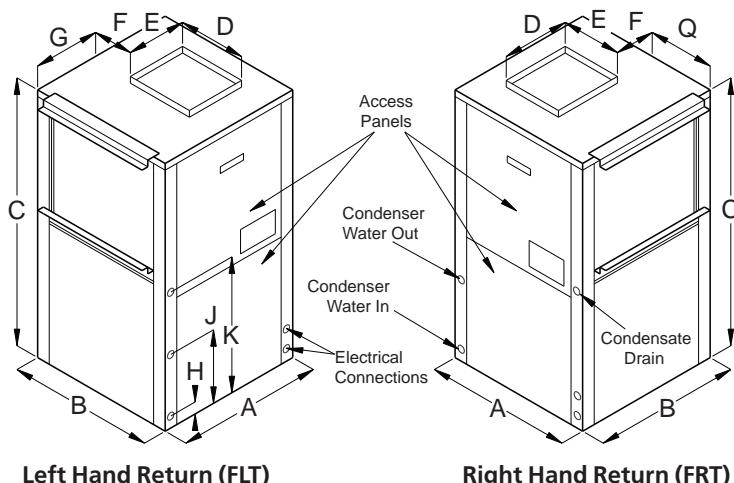
Overall unit dimensions do not include filter rack or duct flanges.

Model	A	B	C	D	E	F	G	H	J	K	M	N	P	Q	Condenser/Water Connections	Recommended Replacement Nominal Filter Size
	Width	Depth	Height	Discharge Depth	Discharge Width	Edge to Cabinet	Discharge	Water Inlet	Water Outlet	Condensate Drain	R/A Duct Width	R/A Duct Height	Filter Rack Height			
LV007	19.0	19.0	24.25	10.0	8.0	4.5	9.3	2.44	9.68	13.87	16.0	8.0	10.0	5.4	3/4" FPT	10 x 16 x 1
LV009	19.0	19.0	24.25	10.0	8.0	4.5	9.3	2.44	9.68	13.87	16.0	8.0	10.0	5.4	3/4" FPT	10 x 16 x 1
LV012	19.0	19.0	24.25	10.0	8.0	4.5	9.3	2.44	9.68	13.87	16.0	8.0	10.0	5.4	3/4" FPT	10 x 16 x 1
LV015	21.5	21.5	32.25	14.0	14.0	3.1	5.2	2.85	8.45	15.87	20.0	14.0	16.0	5.2	3/4" FPT	16 x 20 x 1
LV018	21.5	21.5	32.25	14.0	14.0	3.1	5.2	2.85	8.45	15.87	20.0	14.0	16.0	5.2	3/4" FPT	16 x 20 x 1
LV024	21.5	21.5	39.25	14.0	14.0	3.1	5.2	2.80	8.45	18.87	20.0	18.0	20.0	5.2	3/4" FPT	20 x 20 x 1
LV030	21.5	21.5	39.25	14.0	14.0	3.1	5.2	2.80	8.45	18.87	20.0	18.0	20.0	5.2	3/4" FPT	20 x 20 x 1
LV036	21.5	26.0	43.25	16.0	14.0	4.0	5.0	2.75	10.77	18.87	24.0	22.0	24.0	5.0	3/4" FPT	24 x 24 x 1
LV041	21.5	21.5	39.25	16.0	14.0	1.7	4.7	2.80	8.45	18.87	20.0	18.0	20.0	4.7	3/4" FPT	20 x 20 x 1
LV042	21.5	26.0	43.25	16.0	14.0	4.0	5.0	2.75	10.77	18.87	24.0	22.0	24.0	5.0	3/4" FPT	24 x 24 x 1
LV048	24.0	32.5	45.25	18.0	14.0	7.0	6.2	3.26	13.20	20.87	30.0	22.0	24.0	6.2	1" FPT	24 x 30 x 1
LV060	24.0	32.5	45.25	18.0	14.0	7.0	6.2	3.26	13.20	20.87	30.0	22.0	24.0	6.2	1" FPT	24 x 30 x 1
LV070	26.0	33.25	58.25	18.0	16.0	7.8	7.2	2.92	13.36	25.87	30.0	30.0	32.0	7.2	1" FPT	16 x 30 x 1 (2)

All dimensions within $\pm 0.125"$. All condensate drain connections are 3/4" FPT. LV015-070 can be field converted between end blow and straight through supply air configurations. Specifications subject to change without notice.

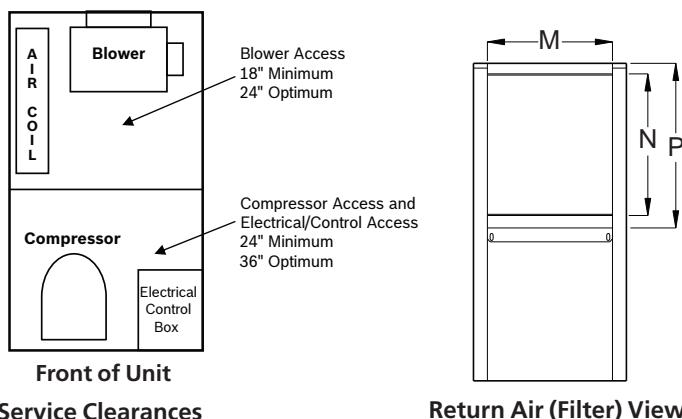
1" filter rack extends 1.23" beyond the side of the unit. 2" filter rack extends 2.89" beyond the side of the unit.

The 2" filter rack is 4 sided with a filter access door on one end and can accept either a 1" or 2" filter.



Left Hand Return (FLT)

Right Hand Return (FRT)



Service Clearances

Return Air (Filter) View

NOTE: The local electric codes may require 36" or more clearance at the electrical control box.



LV SERIES POOL DEHUMIDIFIERS

HORIZONTAL UNIT DIMENSIONS LV007-LV070

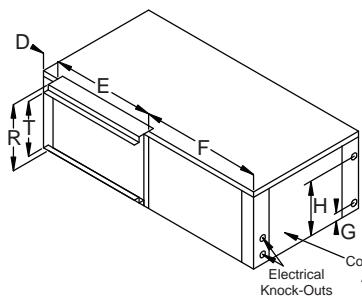
Overall unit dimensions do not include filter rack or duct flanges.

Model	A	B	C	D	E	F	G	H	J	K	M	N	P	Q	R	T	Condenser Water Connections	Recommended Replacement Nominal Filter Size
	Width	Depth	Height	Cabinet End to Filter Rack	R/A Duct Width	Cab Front to Filter Rack	Water Inlet	Water Outlet	Side to Discharge (End)	Discharge Width	Top to Discharge (FLE & FRS)	Discharge Height	End to Discharge (FRE & FLS)	Top to Discharge (FRE & FLS)	Filter Rack Height	R/A Duct Flange Height		
LV007	19.0	33.0	11.5	1.5	16.15	15.35	2.38	9.5	5.375	6.3	5.97	4.1	4.875	1.41	11.3	8.6	3/4" FPT	10 x 16 x 1
LV009	19.0	33.0	11.5	1.5	16.15	15.35	2.38	9.5	5.375	6.3	5.97	4.1	4.875	1.41	11.3	8.6	3/4" FPT	10 x 16 x 1
LV012	19.0	33.0	11.5	1.5	16.15	15.35	2.38	9.5	5.25	6.43	6.31	4.1	4.75	1.14	11.3	8.6	3/4" FPT	10 x 16 x 1
LV015	22.0	43.0	17.0	1.5	20.15	21.35	2.86	15.0	5.42	9.13	6.11	9.65	4.92	1.23	16.8	15.0	3/4" FPT	16 x 20 x 1
LV018	22.0	43.0	17.0	1.5	20.15	21.35	2.86	14.13	5.42	9.13	6.11	9.65	4.92	1.23	16.8	15.0	3/4" FPT	16 x 20 x 1
LV024	22.0	43.0	17.0	1.5	25.0	16.5	2.86	14.13	5.42	9.13	6.11	9.65	4.92	1.23	16.8	15.0	3/4" FPT	16 x 25 x 1
LV030	22.0	43.0	17.0	1.5	25.0	16.5	2.47	15.0	5.42	9.13	6.11	9.65	4.92	1.23	16.8	15.0	3/4" FPT	16 x 25 x 1
LV036	22.0	54.5	19.0	1.5	30.15	22.85	2.86	16.13	6.47	9.13	7.5	10.28	5.97	1.21	18.8	17.0	3/4" FPT	18 x 30 x 1
LV042	22.0	54.5	19.0	1.5	30.15	22.85	2.86	16.13	5.27	10.45	6.46	11.3	4.77	1.22	18.8	17.0	3/4" FPT	18 x 30 x 1
LV048	25.0	54.5	21.0	1.5	34.6	18.4	2.86	18.52	7.25	10.45	7.46	11.36	6.75	2.16	20.8	19.0	1" FPT	20 x 34.5 x 5 x 1
LV060	25.0	54.5	21.0	1.5	34.6	18.4	2.86	18.52	6.32	11.76	6.81	12.5	5.82	1.68	20.8	19.0	1" FPT	20 x 34.5 x 5 x 1
LV070	25.0	65.0	21.0	1.5	48.1	15.4	2.86	18.52	6.32	11.76	6.81	12.5	5.82	1.68	20.8	19.0	1" FPT	20 x 24 x 1 (2)

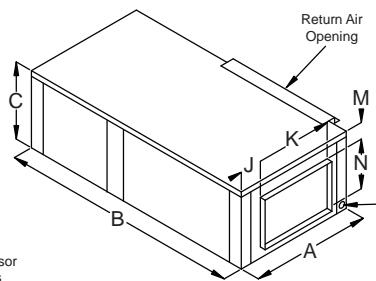
All dimensions within $\pm 0.125"$. All condensate drain connections are 3/4" FPT. LV015-070 can be field converted between end blow and straight through supply air configurations. Specifications subject to change without notice.

1" filter rack extends 1.23" beyond the side of the unit. 2" filter rack extends 2.89" beyond the side of the unit.

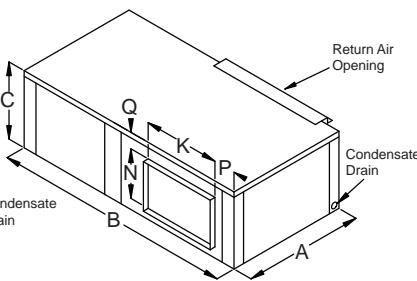
The 2" filter rack is 4 sided with a filter access door on one end and can accept either a 1" or 2" filter.



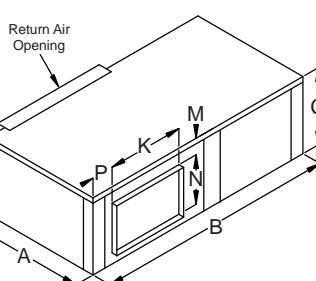
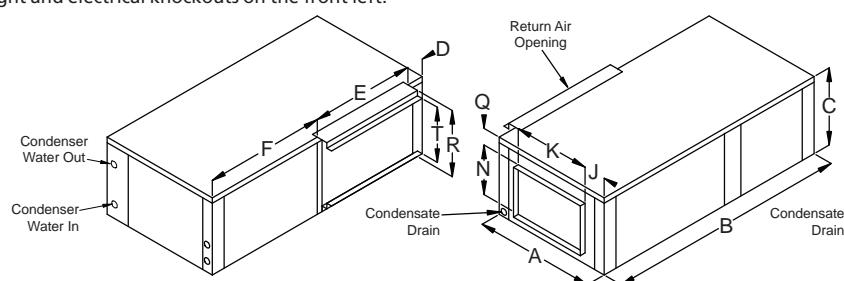
Left Hand Return End Blow (FLE)



Left Hand Return Straight Through (FLS)

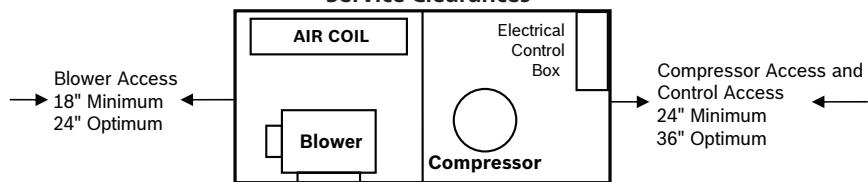


Right Hand Return End Blow (FRE)



Right Hand Return Straight Through (FRS)

Service Clearances



NOTE: The local electric codes may require 36" or more clearance at the electrical control box.

COUNTERFLOW UNIT DIMENSIONS LV015-LV070

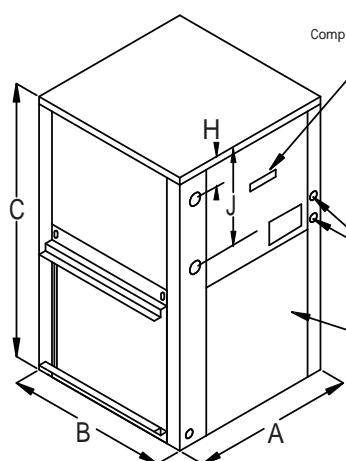
Overall unit dimensions do not include filter rack or duct flanges.

Model	A	B	C	D	E	F	G	H	J	K	M	N	P	Q	Condenser/Water Connections	Recommended Replacement Nominal Filter Size
	Width	Depth	Height	Discharge Depth	Discharge Width	Edge to Cabinet	Discharge	Water Inlet	Water Outlet	Condensate Drain	R/A Duct Width	Flange Height	R/A Duct Height	Filter Rack Height		
LV015	21.5	21.5	32.25	9.7	9.0	5.9	6.8	19.9	25.5	1.0	20.0	14.0	16.0	6.7	3/4" FPT	16x20x1
LV018	21.5	21.5	32.25	9.7	9.0	5.9	6.8	19.9	25.5	1.0	20.0	14.0	16.0	6.7	3/4" FPT	16x20x1
LV024	21.5	21.5	39.25	9.7	9.0	5.9	6.8	23.9	36.0	1.0	20.0	18.0	20.0	6.7	3/4" FPT	20x20x1
LV030	21.5	21.5	39.25	9.7	9.0	5.9	6.8	23.9	36.0	1.0	20.0	18.0	20.0	6.7	3/4" FPT	20x20x1
LV036	21.5	26	43.25	10.3	9.2	7.8	6.2	27.8	35.8	1.0	24.0	22.0	24.0	6.2	3/4" FPT	24x24x1
LV042	21.5	26	43.25	11.3	10.5	7.4	5.9	27.8	35.8	1.0	24.0	22.0	24.0	5.9	3/4" FPT	24x24x1
LV048	24	32.5	45.25	11.4	10.5	10.5	6.7	28.3	38.3	1.0	30.0	22.0	24.0	6.7	1" F.P.T.	24x30x1
LV060	24	32.5	45.25	12.5	11.7	10.0	6.1	28.3	38.3	1.0	30.0	22.0	24.0	6.1	1" F.P.T.	24x30x1
LV070	26	33.25	58.25	12.5	11.7	10.3	7.2	36.0	46.4	1.0	30.0	30.0	32.0	7.1	1" F.P.T.	16x30x1 (2)

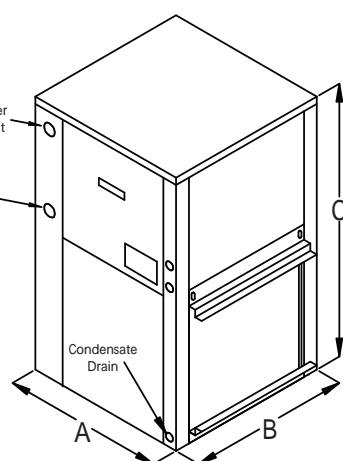
All dimensions within $\pm 0.125"$. All condensate drain connections are 3/4" FPT. LV015-070 can be field converted between end blow and straight through supply air configurations. Specifications subject to change without notice.

1" filter rack extends 1.23" beyond the side of the unit. 2" filter rack extends 2.89" beyond the side of the unit.

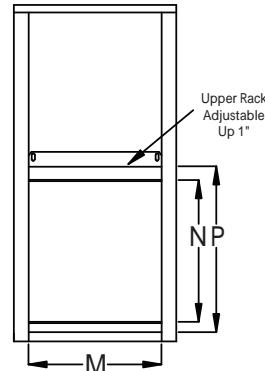
The 2" filter rack is 4 sided with a filter access door on one end and can accept either a 1" or 2" filter.



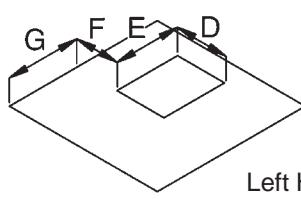
Left Hand Return (FLB)



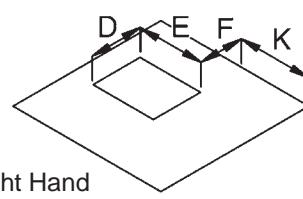
Right Hand Return (FRB)



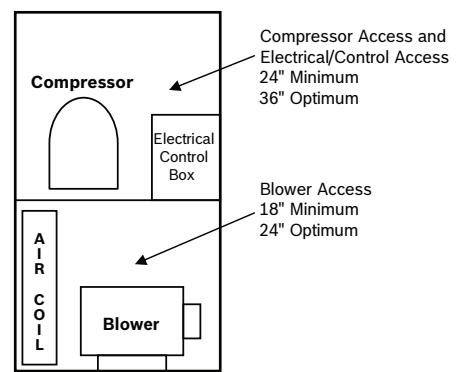
Return Air (Filter) View



Left Hand Return (FLB)



Right Hand Return (FRB)



Front of Unit Service Clearances

NOTE: The local electric codes may require 36" or more clearance at the electrical control box.



GUIDE SPECIFICATIONS

All units conform to UL1995 Standard and are Certified to CAN/CAS C22.2 No 236 by Intertek-ETL.

1.0 General

Furnish and install DXair as indicated on the plans with capacities and characteristics as listed in the schedule and the specifications that follow. The units shall be manufactured in an ISO 9001:2000 certified facility.

2.0 Horizontal/Vertical/Counterflow

The units shall be designed to operate with entering fluid temperatures between 50°F (10°C) and 110°F (43.3°C) in cooling. All units shall be listed with Underwriters Laboratories (UL) for safety.

2.1 Basic Construction

- A. Units shall have the airflow arrangement as shown on the plans. If units with these arrangements are not used, the contractor is responsible for any extra costs incurred by other trades and must submit detailed mechanical drawings showing ductwork requirements and changes or relocation of any other mechanical or electrical system. If other arrangements make servicing difficult, the contractor must provide access panels and clear routes to ease service. The architect must approve all changes 10 days prior to bid.
- B. All units shall have stainless steel drain pans to comply with this project's IAQ requirements. Painted steel or plastic is not acceptable.
- C. The cabinet shall be fabricated from heavy-gauge G-60 galvanized steel. All interior surfaces shall be lined with 1/2" (12.7mm) thick, multi density, coated, glass fiber insulation. Insulation within the air handling section shall not have any exposed edges. All insulation must meet NFPA 90A and be certified to meet the GREENGUARD® Indoor Air Quality Standard for Low Emitting Products. One blower access panel and two compressor compartment access panels shall be removable with supply and return air ductwork in place.
- D. Unit shall have a floating compressor or pan consisting of a 1/2" (12 mm) thick high density elastomeric pad between the compressor base plate and the unit base pan to prevent transmission of vibration to the structure.
- E. Units shall have a 1" filter rack and 1" thick throwaway type glass fiber filter as standard. Units

shall have an optional 2" thick pleated MERV 8 filter (size 007-070) or MERV 13 filter (size 015 and larger with upgraded ECM) available. The filter rack shall incorporate a 1" duct flange. The units shall have an insulated divider panel between the air handling section and the compressor section to minimize the transmission of compressor noise, and to permit service testing without air bypass.

- F. Cabinets shall have separate holes and knockouts for entrance of line voltage and low voltage control wiring.

Supply and return water connections shall be brass female pipe thread fittings and mounted flush to cabinet exterior. Connections that require a back up wrench or that extrude past the unit corner post are not acceptable. Condensate connections will be stainless steel female pipe thread fittings. Plastic is not acceptable.

- G. Hanging brackets shall be provided as standard for horizontal units.

2.2 Fan and Motor Assembly

- A. The fan shall be direct-drive centrifugal forward curved type with a dynamically balanced wheel. The housing and wheel shall be designed for quiet low velocity operation. The blower housing shall feature a removable inlet ring to facilitate removal and servicing of the fan motor. The fan motor shall be 3-speed, permanently lubricated, PSC type with thermal overload protection.
- B. 15,000 Btu/Hr to 70,000 Btu/Hr models shall have an optional constant torque electronically commutated motor for premium fan efficiency. These motors shall feature 5 pre-programmed torque settings that can be changed in the field to match design requirements. 460 V – 3 Ph – 60 Hz units with these motors must be able to operate without the need for a neutral wire for the motor.

GUIDE SPECIFICATIONS

All units conform to UL1995 Standard and are Certified to CAN/CAS C22.2 No 236 by Intertek-ETL.

2.3 Refrigerant Circuit

Units shall use R-410A refrigerant. All units shall have a factory sealed and fully charged refrigerant circuit with the following components:

- A. Hermetic compressor: Hermetic reciprocating, rotary, or scroll compressors shall be specifically designed for R-410A refrigerant and shall be internally sprung (if reciprocating), externally isolated and with thermal overload protection.
- B. Refrigerant metering thermal expansion valves or capillary tubes.
- C. The finned tube heat exchanger shall be constructed of lanced aluminum fins not exceeding sixteen fins per inch bonded to rifled copper tubes in a staggered pattern and will have a 600 PSIG (4140 kPa) working pressure. The heat exchanger shall have aluminum end sheets.

Optional Air Coil Protection: The finned tube heat exchanger shall have optional DuoGuard™ protective coil coating. This corrosion protection shall consist of tin plated copper tubing with coated aluminum fins that must pass 1000 hours of ASTM B117 salt fog testing. Painted, dipped or e-coated heat exchangers are not acceptable.

- D. Coaxial (tube in tube) refrigerant to water heat exchanger. Refrigerant to water heat exchangers shall be of copper inner water tube and steel outer refrigerant tube design rated to withstand 600 PSIG working refrigerant pressure and 400 PSIG working water pressure.

Option for D: Cupro-Nickel water coil – The refrigerant to water heat exchanger shall be of Cupro-Nickel inner water tube construction.

- E. Safety controls include both a high pressure and low pressure switch. Temperature sensors shall not replace these safety switches. See the controls section of this specification for additional information.
- F. Access fittings shall be factory installed on high and low pressure refrigerant lines to facilitate field service.

G. Activation of any safety device shall prevent compressor operation via a lockout circuit. The lockout circuit shall be reset at the thermostat or at the contractor supplied disconnect switch. Units which may be reset at the disconnect switch only shall not be acceptable. Refer to solid state safety circuit below.

2.4 Electrical

Controls and safety devices will be factory wired and mounted within the unit. Controls shall include fan relay, compressor contactor, 24V transformer, reversing valve coil and solid state lockout controller, Unit Protection Module (UPM). The standard transformer shall be rated for a minimum 100 VA. All units shall be name-plated for use with time delay fuses or HACR circuit breakers. Unit controls shall be 24 volts.

Option: Optional transformers shall be rated 75VA and shall have a push button reset circuit breaker on the secondary power.

2.5 Solid-State Safety Circuit

All units shall have a solid-state UPM safety control circuit with the following features:

1. Anti-short cycle time delay (5 minute delay on break).
2. Random start time delay on initial power.
3. Brown out/surge/power interruption protection.
4. 120 second low pressure switch bypass timer.
5. High refrigerant pressure shutdown.
6. Low refrigerant pressure shutdown.
7. Air coil freeze protection shutdown.
8. High condensate level shutdown.
9. 24 VAC alarm output for remote fault indication.

The UPM shall automatically reset after a safety shut down. Restart the unit if the cause of the shut down no longer exists (except for low temperature and high condensate level shutdowns). Should a fault re-occur within 60 minutes after reset, then a "hard"



GUIDE SPECIFICATIONS

All units conform to UL1995 Standard and are Certified to CAN/CAS C22.2 No 236 by Intertek-ETL.

lockout will occur. A light emitting diode (LED) shall annunciate the following alarms: brown out, high refrigerant pressure, low refrigerant pressure, and a high level of condensate in the drain pan. The LED will display each fault condition as soon as the fault occurs. If a hard lockout occurs, then the fault LED will display the type of fault until the unit is reset.

The UPM shall feature the following field configurable adjustments:

1. Lock out reset on thermostat interruption or power reset.
2. 2 or 4 restart attempts before a hard lockout.
3. Test mode (reduces all time delays to 5 seconds for diagnostic work).
4. Antifreeze setting for low water temperature sensor.

Safety devices include:

1. Low pressure cutout set at 40 PSIG (280 kPa) for loss of charge protection (freezestat and/or high discharge gas temperature sensor is not acceptable).
2. High pressure cutout control set at 600 PSIG (4125 kPa).
3. Low air coil temperature sensor that detects drops in refrigerant temperature that could result in air heat exchanger freezing.
4. High level condensate sensor that shuts off the compressor if the condensate drain pan fills with water.
5. On board voltage detection that disables the compressor control circuit if there are extreme variations in supply voltage.

An optional energy management relay that allows unit control by an external source shall be factory installed. A terminal block with screw terminals shall be provided for control wiring.

2.6 Options

- A. Extra quiet construction: Optional compressor blanket shall be provided on units having a capacity above 18,000 BTUH.
- B. A 2", four-sided filter rack is optional to accommodate nominal 2" thick pleated filters.

UNIT LOCATION

DO NOT STORE pool equipment and/or pool chemicals in the mechanical space designed for the DXair Dehumidification System. Failure to follow these instructions may void your warranty as chemicals are highly corrosive and destructive to any HVAC system.

Any mechanical device will, at some point in time, require servicing and repair. With this in mind, sufficient mechanical space must be designed and sufficient clearances around each horizontal and vertical unit must be provided. 30-36" clearance is required around the unit and access panels. This equipment is not recommended to be located or installed in the pool room above an open pool, closets, crawl spaces without the proper access, "trap" door type accessible spaces. The proper space must be allocated to install the system, clearances required, peripheral installation, ductwork and bypass installation. Failure to provide the appropriate space may void your warranty.

Proper clearances for installation of peripherals and space must be allowed for the proper duct work installation. Choking down ductwork in this mechanical space will have negative air flow effects for your pool room. Sufficient space must be provided for filter replacement and access to the compressors. Units should be set on a piece of rubber, neoprene or other vibration absorbing material at least 1/3-½" thick. The pad should extend ¾" over the entire base of the unit. Avoid direct line of sight to the unit. Install a sound baffle over any door that has a return air grille.

Horizontal units are typically suspended above the ceiling by four (field supplied) 3/8" threaded rods fastened to the unit by factory supplier hanger bracket kits. This kit includes rubber isolators to help prevent transmission of vibration and noise to the building structure. Units should be located directly below a structural member, so that it is securely anchored. A horizontal unit always requires the proper clearances (18" clearance on either side of the unit for service and 36" in the front of the unit for maintenance access. The filter needs to be slid out and sufficient space must be provided to allow this.

Do not install any unit above any piping or electrical raceways. This unit must be able to be removed at any time without major re-arrangement of other mechanical or ceiling components.

SOUND

Sound is becoming an increasingly important factor in all HVAC Installations. Most of the problems associated with HVAC generated noise can be avoided by paying close attention to the equipment placement in properly designed mechanical space and the duct work/air delivery system.

NEGATIVE PRESSURE

A negative pressure fan must be installed in the pool room to prevent moisture migration. This is mandatory for all indoor pool room environments.

Duct Air Delivery System

DXair requires a very high standard of duct systems for our equipment. All specifications for the air delivery system must be met and all ASHRAE and ACCA Manuals pertaining to properly sized duct work must be followed. Air delivery is critical to these structures. A continuous loop of duct is recommended at a .20 static on supply and a .07 on one high return air. All diffusers should be double deflection and moving air 6-12" from all glass or surfaces that are prone to condensation. Diffusers are not designed "blowing down", "blowing over" a pool area, they must be deflected at surfaces that can reach Dew Point Temperature. Diffusers are not built into the walls between windows blowing across an open pool.

We do not recommend blowing air across an open pool ; this serves to increase the evaporation of pool water and create a chill effect on the patrons. Blowing air across an open pool does not resolve chloramine issues; this is a water quality issue that must be addressed by those proper balancing of pool water at all times; it is not a HVAC issue.

Square throats and restrictions in the air delivery system must be eliminated. If square throats are used, the proper elbows/radius and turning vanes are required. The more restrictive air flow in a duct system, the less likely this system will control the environment properly and may place additional stress due to lack of air flow on the system itself.

No fiberboard duct or flex duct should be used in these systems unless approved in writing by DXair Engineering. All skylights must be addressed with air flow. If ducting cannot reach these areas, ceiling fans blowing up must be installed between the skylights to move air into them and prevent condensation.



LV SERIES POOL DEHUMIDIFIERS

NOTES



NOTES



DXair LV Series

dxair.com

sales@dxair.com

(800) 514-7051

Revised 07-2020



DXair is not a licensed architectural firm, not a licensed mechanical engineering firm or installation contractor. We do not provide building loads (Sensible/Latent) for any natatorium. This information must be provided by customer for proper sizing of the system to your design requirements. Our 'engineering' consists of calculations based on pool room data for evaporation rate at design temperatures and RH, supply air/return air cfm, outside air requirements, and negative pressure for the space. Please provide mechanical schedules for all projects (new or retrofits) when requesting a quote for new construction or quotes for retrofitting an existing natatorium. If only competitor specs are provided and no building loads are obtained, DXAir will not be liable or responsible for any undersizing or oversizing, or lack of performance due to lack of information.

Copyright © 2020 DXair. All rights reserved. Subject to change without notice.

