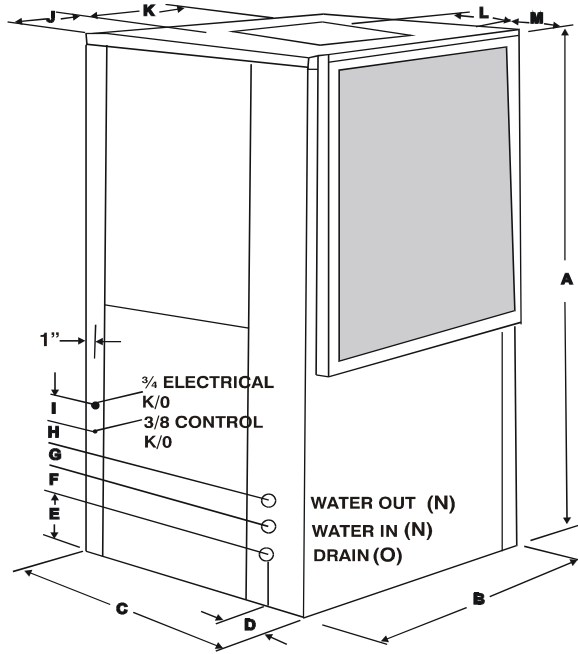


# diamondAIR

LVA90-120 Vertical Series  
Air Conditioners

SUBMITTAL

**NEW** ENVIRONMENTALLY FRIENDLY  
R407-C REFRIGERANT



Model	A	B	C	D
LVA90-120	66 5/8	34 1/8	31	2 3/8

E	F	G	H	I
4 1/2	2	2	25 1/2	2

J	K	L	M	N
7 3/4	18 5/8	15 7/8	14	3/4

Water Connection	1" FIPT
Drain Connection	1" TUBING
FILTER	(2) 23 X 32 X 1

Model LVA	Shipping Weight (Lb)
90	475
120	520

REMOVABLE LEGS NOT SHOWN, ADD 2" HEIGHT

## PERFORMANCE DATA

NOMINAL CAPACITY	DATA					Condenser Coil ΔP (PSI)	Water Value ΔP (PSI)	Flow USGPM
	TC	TSC	THR	KW	EER			
90	95,443	78,550	125,667	8.74	12.6	7.2	13.0	25.1
120	121,335	99,859	159,758	11.80	12.6	9.6	21.0	32.0

TC -Total Capacity (A) Cooling capacity rating test conditions: Evaporator Air - 80°F db/67°F wb  
 TSC -Total Sensible Capacity Condenser Water - 85°F EWT/95°F LWT  
 THR -Total Heat of Rejection (B) Units are shipped in standard sensible format. For high sensible application, motor speed must be changed to the high speed tap.  
 KW -Total Power Input (C) Total pressure drop for unit with regulating valve is sum of condenser coil drop and water regulating valve pressure drop.  
 EER -Energy Efficiency Ratio  
 GPM -Gallons Per Minute

BELT DRIVE		STATIC PRESSURE						
		0.1	0.2	0.3	0.4	0.5	0.6	0.7
LVA	CFM	RPM BHP	RPM BHP	RPM BHP	RPM BHP	RPM BHP	RPM BHP	RPM BHP
90	3000	730 0.8	770 0.9	820 0.9	860 1.0	920 1.1	970 1.2	1020 1.3
120	4000	580 1.0	610 1.1	640 1.1	670 1.2	690 1.3	720 1.4	750 1.4

## ELECTRICAL DATA

Model	Electrical Characteristics	Compressor		Blower Motor		Unit Total FLA	Min. Circuit Ampacity	Fuse Size Time Delay	Min. Wire Size
		RLA	LRA	RLA	HP				
LVA90TSU7	208/230-3-60	14.0 X 2	90 X 2	3.6	1	31.6	39.5	50	6
LVA90RSU7	460-3-60	7.0 X 2	37 X 2	1.5	1	15.5	19.4	20	12
LVA90ZSU7	575-3-60	5.6 X 2	36 X 2	1.4	1	12.6	15.8	20	12
LVA120TSU7	208/230-3-60	17.5 X 2	126 X 2	6.8	2	41.8	52.3	70	4
LVA120RSU7	460-3-60	8.8 X 2	55 X 2	3.1	2	19.1	23.9	25	10
LVA120ZSU7	575-3-60	7.0 X 2	39 X 2	2.5	2	16.5	20.6	25	12

## NOTES:

Units are standard in Galvanized Metal. Available in Powder Coated. Extra charges apply.

Your Local Distributor	Project:	
MITS AIRCONDITIONING INC.	Contractor:	
1608 BONHILL ROAD	Engineer:	
MISSISSAUGA, ONTARIO	Submitted By:	
L5T 1C7	Date:	