9200 SERIES BLOWERS

CANARM® HVAC

INSTALLATION AND MAINTENANCE INSTRUCTIONS

READ AND SAVE THESE INSTRUCTIONS

RECEIVING INSPECTION

Check for damage or missing parts immediately upon receipt. Ensure that wheel rotates freely.
REPORT ANY DAMAGE PROMPTLY TO CARRIER.

INSTALLATION

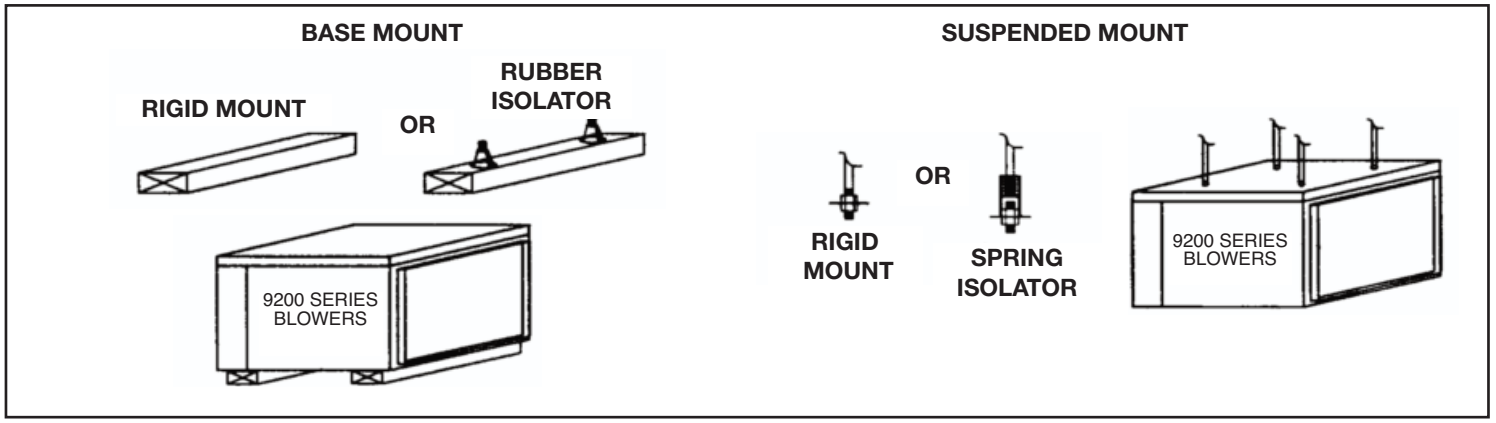
9200 series blowers are suitable for suspension or base mounting.

SUSPENSION MOUNTING

Drill 4 - 7/8" diameter holes through the top using the inside top "hat section" channel as a guide. Extend 1/2" diameter threaded mounting rod through the cabinet and the bottom channel and secure to both top and bottom. Ensure unit is level.

BASE MOUNTING

For base mounting secure unit through 4 - 7/8" diameter holes located in the "hat section" channel in the bottom of the unit. Ensure unit is level.



* Flexible inlet and outlet collars are recommended to minimize vibration transmission.

MOTOR & V-BELT DRIVES

Mount motor with hardware provided and install pulleys and belt(s) with proper tension. Follow illustrated recommendations on belt installation below.

BELT TENSION & PULLEY ALIGNMENT

Excessive belt tension is the number 1 cause of blower bearing failure.

Proper belt tension and pulley alignment are essential for trouble free operation.

A simple "Rule of Thumb" for checking belt tension is illustrated.

When the belt is grasped as shown, a total deflection of approximately 1" should be easily attained.

Insufficient deflection indicates that the belt is too tight, resulting in noise from excessive vibration, premature bearing failure, and short belt life. Tight belts may overload a motor that would otherwise be adequate.

Excessive deflection is an indication that the belt is not tight enough. If not corrected, slippage could cause loss of blower speed and belt failure through wear.

A belt should be just tight enough to avoid slippage.

Align pulleys with a straight edge to conserve belt life and eliminate unnecessary noise.

Check tension before start-up, after every pulley adjustment and regularly thereafter.

SET SCREWS

Ensure all set screws on both pulleys and the blower wheel are tight.

ELECTRICAL

Connect motor in accordance with applicable codes. Provide properly sized motor overload protection to protect motor against electrical faults and system changes. Confirm proper motor rotation on start-up.

MAINTENANCE

Inspect periodically for mounting rigidity. Verify belt for wear and tension and adjust as required. Inspect wheel for any dust accumulation and clean as indicated. **CAUTION - DO NOT DISLODGE BALANCING CLIPS. CHECK SET SCREW FOR TIGHTNESS.**

LUBRICATION

Insert bearings with sealed in lubricant are used on all 9200 series models up to 9215. No further lubrication is required. Models 9218 and 9220 use cast iron, pillow block, sealed type bearings. Re-lubrication is unnecessary under most operating conditions. If lubrication is required lubricant should be compatible to Esso Beacon #325.

"9200" SERIES BLOWER BELT LENGTH SELECTION

BLOWER MODEL	3 1/4'' DIA. ZINC DIE CAST BLOWER PULLEY - DIA. & RPM RANGE							BELT LENGTH BASED ON MOTOR FRAME
	5"	6"	7"	8"	9"	10"	625	
	824-1125 RPM	680-929 RPM	580-792 RPM	505-690 RPM	447-611 RPM	401-548 RPM	533-455 RPM	
9209	4L36	4L38	4L40	4L42	4L44	4L45	--	48 FRAME
9210	4L38	4L40	4L41	4L43	4L45	4L47	--	

MOTOR PULLEY CAST IRON	LOWER PULLEY CAST IRON	RPM RANGE	BLOWER MODEL						BELT LENGTH BASED ON MOTOR FRAME
			9209	9210	9212	9215	9218	9220	
8325 O.D. 3.25"	HB77T	756-568	NOTE: BLOWER PULLEY MODEL NUMBER SPECIFIES O.D. EG. HB47T = 4.7" O.D.		B50	B55	B63	B68	MODELS 9209 & 9210 48 FRAME (ADD 1" FOR 56 FRAME) BALANCE 143T, 145T FRAME
	HB87T	667-500			B52	B57	B65	B70	
	HB97T	596-447			B54	B59	B67	B72	
	HB107T	538-404			B55	B61	B68	B74	
	HB117T	491-368			B57	B62	B70	B75	
	HB127T	452-339			B59	B64	B72	B77	
	HB137T	418-314			B61	B66	B74	B79	
	HB157T	364-273			--	B70	B77	B82	
	HB187T	304-228			--	--	B83	B88	
IVL44 O.D. 4.15"	HB47T	1630-1232	B36	B38	--	--	--	--	143T & 145T FRAME
	HB57T	1329-1005	B38	B40	--	--	--	--	
	HB67T	1121-848	B39	B41	--	--	--	--	
	HB77T	969-733	B41	B43	B50	B53	B65	--	
	HB87T	854-645	B43	B45	B51	B55	B67	B72	
	HB97T	763-577	B45	B47	B53	B56	B68	B74	
	HB107T	690-521	B46	B49	B55	B58	B70	B75	
	HB117T	629-476	B48	B50	B56	B60	B72	B77	
	HB127T	578-437	B50	B52	B58	B61	B73	B78	
	HB137T	535-404	B52	B54	B60	B63	B75	B80	
	HB157T	466-352	B56	B58	--	B67	B79	B84	
	HB187T	390-295	B63	B64	--	--	--	--	
8400 O.D. 4.15"	HB77T	1253-1017	--	--	B52	B55	B67	--	182T, 184T FRAME (DEDUCT 2" FOR 56, 143T & 145T)
	HB87T	1104-896	--	--	B53	B57	B69	B74	
	HB97T	1005-815	--	--	B55	B58	B70	B76	
	HB107T	907-750	--	--	B57	B60	B72	B77	
	HB117T	828-686	--	--	B58	B62	B74	B79	
	HB127T	756-618	--	--	B60	B63	B75	B80	
	HB137T	697-575	--	--	B62	B65	B77	B82	
	HB157T	616-509	--	--	--	B69	B81	B86	
	HB187T	522-435	--	--	--	--	B86	B91	
8550 O.D. 5.35"	HB87T	1104-896	--	--	B55	B58	B71	--	182T & 184T FRAME (DEDUCT 2" FOR 56, 143T & 145T)
	HB97T	1005-815	--	--	B57	B60	B72	--	
	HB107T	907-750	--	--	B58	B62	B74	B79	
	HB117T	828-686	--	--	B60	B63	B75	B80	
	HB127T	756-618	--	--	B62	B65	B77	B82	
	HB137T	697-575	--	--	B64	B67	B79	B84	
	HB157T	616-509	--	--	--	B70	B82	B87	
	HB187T	522-435	--	--	--	--	B88	B92	
D8600 O.D. 6"	DOUBLE GROOVE		NOTE: ADD .35 TO DOUBLE GROOVE PULLEY MODEL NUMBER FOR O.D. DIMENSION EG. 11.0 X 2B = 11.35 O.D.						213T, 215T FRAME
	11.0 X 2B	939-780			--	-- (2)	B78 (2)	B83	
	12.4 X 2B	830-700			--	-- (2)	B80 (2)	B85	
	13.6 X 2B	759-631			--	-- (2)	B82 (2)	B87	
	15.4 X 2B	682-574			--	-- (2)	B85 (2)	B90	
	18.4 X 2B	569-486			--	-- (2)	B91 (2)	B95	
	20.0 X 2B	516-429			--	-- (2)	--	--	
2LVP48B60A O.D. 6.5"	11.0 X 2B	924-764	--	--	--	--	-- (2)	BX85	254T FRAME
	12.4 X 2B	817-678	--	--	--	--	-- (2)	--	
	13.6 X 2B	745-618	--	--	--	--	-- (2)	BX90	
	15.4 X 2B	657-545	--	--	--	--	-- (2)	BX93	
	18.4 X 2B	551-456	--	--	--	--	-- (2)	BX97	
	20.0 X 2B	507-419	--	--	--	--	-- (2)	BX100	

NOTE: For fractional HP applications "4L" belts may be substituted by adding 2" to the specified "B" belt. EG. B50 belt = 4L52