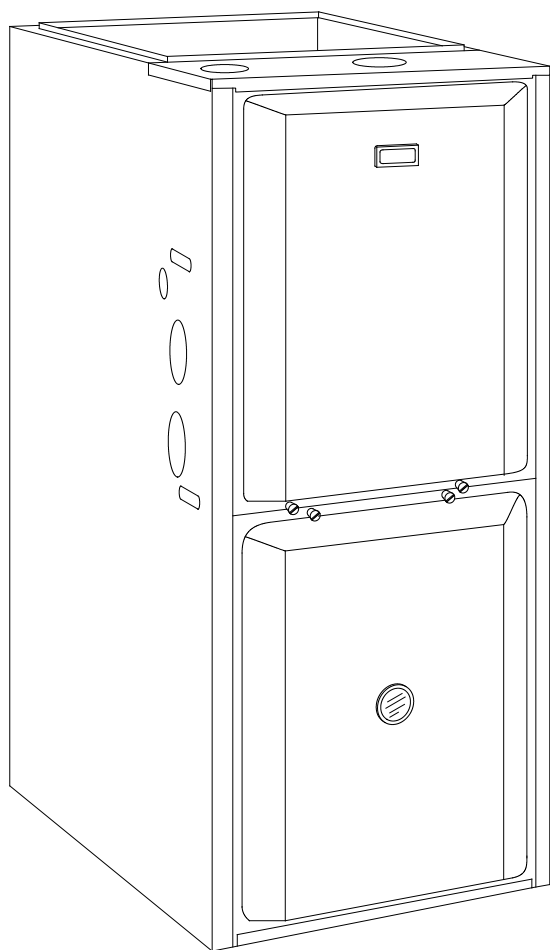


Technical Support Manual

Four Position Furnace



Models

Dual Certified

***9MPT050F12C1**

***9MPT075F14C1**

***9MPT100J16C1**

***9MPT125L20C1**

***9MPV050F12D1**

***9MPV075F12D1**

***9MPV100J20D1**

***9MPV125L20D1**

***9MVX040F12A1**

***9MVX060F12A1**

***9MVX080J20A1**

***9MVX100L20A1**

*** Denotes Brand (C, H, T)**

Technical Support (*9MPT)	2
Circulation Air Blower Data (*9MPT)	3
Wiring Diagram (*9MPT)	4
Technical Support (*9MPV)	5
Circulation Air Blower Data (*9MPV)	9
Technical Support (*9MVX)	14
Circulation Air Blower Data (*9MVX)	21
Tap Select Interface Board (*9MPV & *9MPX) ..	23
Bellyband Placement (*9MPT, *9MPV & *9MPX) .	23
Wiring Diagram (*9MPV & *9MVX)	24
Parts Information Guide	25



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International Comfort Products, LLC
Lewisburg, TN 37091 U.S.A.

Save This Manual For Future Reference

TECHNICAL SUPPORT

Manufacturers Number (Mfr No -See Rating Plate) ALL Models								
Specifications								
	*9MPT050F12		*9MPT075F14		*9MPT100J16		*9MPT125L20	
General								
Gas Type	Nat	Propane	Nat	Propane	Nat	Propane	Nat	Propane
Transformer Size (VA)	40							
T'stat Heat Anticipator	.50							
Input (Btuh) Std/Alt.	HI Heat	50,000	75,000	100,000	125,000			
	LO Heat	35,000	53,000	70,000	87,500			
Output (Btuh) Std/Alt.	HI Heat	46,000	70,000	93,000	117,000			
	LO Heat	32,000	49,000	65,000	82,000			
Temp. Rise (°F/°C)	HI Heat	35-65 / 19-46	40-70 / 22-38	40-70 / 22-38	40-70 / 22-38			
	LO Heat	25-55 / 14-30	30-60 / 17-33	30-60 / 17-33	30-60 / 17-33			
Electrical (Volts/Hz)	115/60		115/60		115/60		115/60	
Rating Plate Amps	11.8		11.8		11.8		14.0	
Gas & Ignition								
Gas Type	Nat.	Propane	Nat.	Propane	Nat.	Propane	Nat.	Propane
Std. Main Orifices (No/Size)	2/42	2/54	3/42	3/54	4/42	4/54	5/42	5/54
Gas Valve (Honeywell)	VR8205Q	VR8205Q	VR8205Q	VR8205Q	VR8205Q	VR8205Q	VR8205Q	VR8205Q
Regulation Type	SNAP	SNAP	SNAP	SNAP	SNAP	SNAP	SNAP	SNAP
Manifold Press.	HI Heat (in wc/Pa)	3.5/872	10.0/2490	3.5/872	10.0/2490	3.5/872	10.0/2490	10.0/2490
	LO Heat (in wc/Pa)	1.7/423	4.9/1221	1.7/423	4.9/1221	1.7/423	4.9/1221	4.9/1221
Ignition Type/Series	Hot Surface							
Combustion								
Flue Outlet Size (Inches)	2		2		3		3	
Std. Outlet Temp (°F/°C)	<140/60		<140/60		<140/60		<140/60	
@ Blower / @ Transition Box (HI Heat)								
Std. Pressures (in wc/Pa)	-1.80/-2.60(-448/-647)		-1.80/-2.60(-448/-647)		-1.80/-2.60(-448/-647)		-1.80/-2.60(-448/-647)	
5' No Elbows	-1.30/-2.30(-324/-573)		-1.30/-2.30(-324/-573)		-1.70/-2.50(-423/-623)		-1.70/-2.50(-423/-623)	
40' +5-90° DWV Elbows								
@ Blower / @ Transition Box (LO Heat)								
Std. Pressures (in wc/Pa)	-1.20/-1.90(-299/-473)		-1.20/-1.90(-299/-473)		-1.20/-1.90(-299/-473)		-1.30/-2.30(-324/-573)	
5' No Elbows	-1.00/-1.80(-249/-448)		-1.00/-1.80(-249/-448)		-1.00/-1.80(-249/-448)		-1.20/-2.20(-299/-548)	
40' +5-90° DWV Elbows								
Furnace Controls								
Furnace Control (Type)	Integrated							
Furnace Control On	30 HI /45 LO							
(Timed-secs) Off	60,100,140,180							
Limits & Controls								
Rollout Switch (°F/°C)	300/149		300/149		300/149		300/149	
Limit Control Setting (°F/°C)	260/127		210/99		240/116		180/82	
Std. Pressure Sw. (in wc/Pa) Part No	1013515		1013515		1013515		1013166	
Blower Switch Pressure (Close)	0.95 (237)		0.95 (237)		0.95 (237)		1.30 (324)	
Blower Switch Pressure (Open)	0.80 (199)		0.80 (199)		0.80 (199)		1.10 (274)	
Transition Switch Pressure (Close)	1.70 (423)		1.70 (423)		1.70 (423)		1.80 (448)	
Transition Switch Pressure (Open)	1.50 (374)		1.50 (374)		1.50 (374)		1.60 (398)	
High Alt. Pressure Sw. (in wc/Pa) Part No	1013165		1013165		1013165		1013157	
Blower Switch Pressure (Close)	0.70 (174)		0.70 (174)		0.70 (174)		0.85 (212)	
Blower Switch Pressure (Open)	0.55 (137)		0.55 (137)		0.55 (137)		0.70 (174)	
Transition Switch Pressure (Close)	1.40 (349)		1.40 (349)		1.40 (349)		1.70 (423)	
Transition Switch Pressure (Open)	1.20 (299)		1.20 (299)		1.20 (299)		1.50 (374)	
Blower Data								
Blower Size - D x W inches(mm)	11 x 8(279 x 203)		11 x 10(279 x 254)		11 x 10(279 x 254)		11 x 10(279 x 254)	
Motor Amps/RPM	10/1050		10/1050		10/1050		13/900	
Motor Type/H.P.	PSC/1/2		PSC/1/2		PSC/1/2		PSC ³ /4	
Cap. Mfd/Volts	10/370		10/370		10/370		40/370	
Filter Type & Size (qty.) in(mm)	16x25x1		16x25x1		16x25x1		16x25x1 (2)	
Cool Cap. (Tons) @ .5 in wc (125 Pa)	1.5 thru 3		1.5 thru 3.5		2.5 thru 4		3.5 thru 5	
	L, ML, MHi & HI							
Gas Conversion Kits All Models								
Nat to Propane	NAHA002LP (1172959*)							
Propane to Nat	NAHA002NG (1172961*)							
*Order from Service Parts								

Circulation Air Blower Data - *9MPT

***9MPT050F12 (1)** * Denotes Brand

***9MPT100J16 (1)** * Denotes Brand

Speed Tap		Low		Med L		Med H		Hi	
in wc	Pa	CFM	L/s	CFM	L/s	CFM	L/s	CFM	L/s
0.1	25	826	389	1083	511	1301	614	1408	667
0.2	50	804	379	1050	495	1242	586	1347	638
0.3	75	770	363	1028	485	1195	564	1295	611
0.4	100	735	346	985	465	1153	544	1237	583
0.5	125	698	329	952	499	1093	516	1183	558
0.6	150	657	310	909	429	1040	491	1118	528
0.7	175	---	---	863	407	935	441	1053	497
0.8	200	---	---	812	383	865	408	976	461
0.9	225	---	---	---	---	802	378	887	419
1.0	250	---	---	---	---	720	340	787	371

Speed Tap		Low		Med L		Med H		Hi	
in wc	Pa	CFM	L/s	CFM	L/s	CFM	L/s	CFM	L/s
0.1	25	823	388	1109	523	1527	721	1850	873
0.2	50	795	375	1087	513	1482	699	1791	845
0.3	75	747	353	1056	498	1426	673	1720	812
0.4	100	677	319	1016	479	1382	652	1648	778
0.5	125	617	591	970	458	1317	622	1575	743
0.6	150	544	257	857	403	1245	588	1485	701
0.7	175	---	---	763	360	1154	545	1401	661
0.8	200	---	---	652	308	1043	492	1284	606
0.9	225	---	---	---	---	905	427	1161	548
1.0	250	---	---	---	---	737	348	1028	485

***9MPT075F14 (1)** * Denotes Brand

***9MPT125L20 (2)** * Denotes Brand

Speed Tap		Low		Med L		Med H		Hi	
in wc	Pa	CFM	L/s	CFM	L/s	CFM	L/s	CFM	L/s
0.1	25	395	328	1025	484	1455	687	1724	814
0.2	50	374	318	1001	472	1410	655	1662	784
0.3	75	653	308	951	449	1365	644	1601	756
0.4	100	631	298	921	435	1309	3118	1530	722
0.5	125	609	287	891	420	1252	591	1460	689
0.6	150	569	268	845	399	1187	560	1380	651
0.7	175	529	250	799	377	1122	529	1300	613
0.8	200	490	231	730	345	1030	486	1190	562
0.9	225	---	---	680	321	950	448	1080	510
1.0	250	---	---	---	---	831	392	969	457

Speed Tap		Low		Med L		Med H		Hi	
in wc	Pa	CFM	L/s	CFM	L/s	CFM	L/s	CFM	L/s
0.1	25	1720	812	1910	901	2127	1004	2315	1092
0.2	50	1686	796	1881	888	2087	985	2268	1070
0.3	75	1644	776	1833	912	2024	955	2201	1039
0.4	100	1600	755	1777	839	1961	925	2131	1006
0.5	125	1533	723	1720	812	1891	892	2029	958
0.6	150	1494	705	1647	777	1804	851	1948	919
0.7	175	1413	667	1571	741	1708	806	1820	859
0.8	200	1306	616	1470	694	1604	757	1730	816
0.9	225	---	---	1349	637	1484	700	1614	762
1.0	250	---	---	---	---	1328	627	1430	675

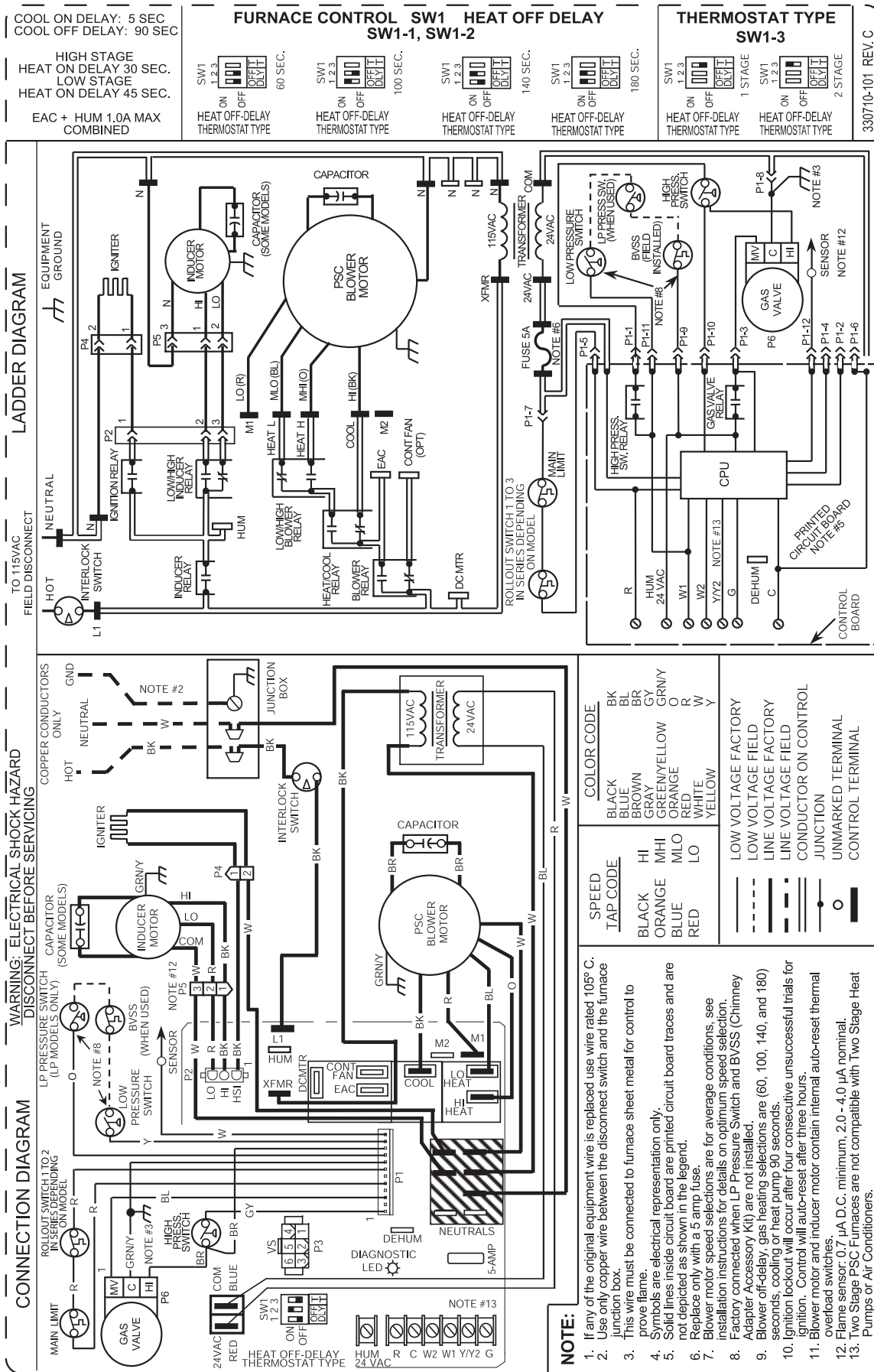
NOTE: (1) Data based on Bottom Only or One Side return.
(2) Data based on Both Sides or Bottom plus One Side

NOTE: Disposable filters are typically rated at 300 FPM (1.5 m/s). These filters only allow half the airflow when compared to 600 FPM (3.0 m/s) filters.

CFM - Cubic feet per minute airflow (L/s - Liters per second) Filter required for each return-air inlet. Airflow performance includes 1" (25.4mm) washable 600 FPM (283 m/s) max filter media.

MAX CFM (L/s) for Factory Washable Filters		
Filter Size (in/mm)	CFM	L/s
14" X 25" (356 x 635)	1400	661
16" X 25" (406 x 635)	1600	755
20" X 25" (508 x 635)	2000	944
24" X 25" (610 x 635)	2500	1180
Max CFM (L/s) based on 600 FPM (3.0 m/s)		

Wiring Diagram *9MPT (Two Stage Heating with PSC Motor)



TECHNICAL SUPPORT

Manufacturers Number (Mfr No -See Rating Plate) ALL Models								
Specifications								
	*9MPV050F12		*9MPV075F12		*9MPV100J20		*9MPV125L20	
General								
Gas Type	Nat	Propane	Nat	Propane	Nat	Propane	Nat	Propane
Transformer Size (VA)	40							
T'stat Heat Anticipator	.50							
Input (Btuh) Std/Alt.	HI Heat	50,000	75,000	100,000	125,000			
	LO Heat	35,000	52,500	70,000	87,500			
Output (Btuh) Std/Alt.	HI Heat	46,000	70,000	93,000	118,000			
	LO Heat	32,000	48,000	65,000	82,000			
Temp. Rise (°F/°C)	HI Heat	35-65 / 19-46	40-70 / 22-38	40-70 / 22-38	40-70 / 22-38			
	LO Heat	35-65 / 19-46	40-70 / 22-38	40-70 / 22-38	40-70 / 22-38			
Electrical (Volts/Hz)	115/60		115/60		115/60		115/60	
Rating Plate Amps	9.5		11.4		14.6		15.4	
Gas & Ignition								
Gas Type	Nat.	Propane	Nat.	Propane	Nat.	Propane	Nat.	Propane
Std. Main Orifices (No/Size)	2/42	2/54	3/42	3/54	4/42	4/54	5/42	5/54
Gas Valve Honeywell	VR8205Q	VR8205Q	VR8205Q	VR8205Q	VR8205Q	VR8205Q	VR8205Q	VR8205Q
Regulation Type	SNAP	SNAP	SNAP	SNAP	SNAP	SNAP	SNAP	SNAP
Manifold Press.	HI Heat (in wc/Pa)	3.5/872	10.0/2490	3.5/872	10.0/2490	3.5/872	10.0/2490	10.0/2490
	LO Heat (in wc/Pa)	1.7/423	4.9/1221	1.7/423	4.9/1221	1.7/423	4.9/1221	4.9/1221
Ignition Type	Hot Surface							
Combustion								
Flue Outlet Size (Inches)	2		2		3		3	
Std. Outlet Temp (less than)	140 °F/60 °C		140 °F/60 °C		140 °F/60 °C		140 °F/60 °C	
Comb. Blower (MFD/Volts)	4/370		4/370		4/370		4/370	
@ Blower / @ Transition Box (HI Heat)								
Std. Pressures in wc(Pa)								
5' No Elbows	-1.80/-2.60(-448/-647)	-1.80/-2.60(-448/-647)	-1.80/-2.60(-448/-647)	-1.80/-2.60(-448/-647)	-1.80/-2.60(-448/-647)	-1.80/-2.60(-448/-647)	-1.80/-2.60(-448/-647)	-1.80/-2.60(-448/-647)
40' +5-90° DWV Elbows	-1.30/-2.30(-324/-573)	-1.30/-2.30(-324/-573)	-1.30/-2.30(-324/-573)	-1.30/-2.30(-324/-573)	-1.70/-2.50(-423/-623)	-1.70/-2.50(-423/-623)	-1.70/-2.50(-423/-623)	-1.70/-2.50(-423/-623)
@ Blower / @ Transition Box (LO Heat)								
Std. Pressures in wc(Pa)								
5' No Elbows	-1.20/-1.90(-299/-473)	-1.20/-1.90(-299/-473)	-1.20/-1.90(-299/-473)	-1.20/-1.90(-299/-473)	-1.20/-1.90(-299/-473)	-1.20/-1.90(-299/-473)	-1.30/-2.30(-324/-573)	-1.30/-2.30(-324/-573)
40' +5-90° DWV Elbows	-1.00/-1.80(-249/-448)	-1.00/-1.80(-249/-448)	-1.00/-1.80(-249/-448)	-1.00/-1.80(-249/-448)	-1.00/-1.80(-249/-448)	-1.00/-1.80(-249/-448)	-1.20/-2.20(-299/-548)	-1.20/-2.20(-299/-548)
Limits & Controls								
Rollout Switch (°F/°C)	300/149		300/149		300/149		300/149	
Limit Control Setting (°F/°C)	260/127		210/99		240/116		190/88	
Furnace Control (Type)	Integrated							
Furnace Control On	30 HI /45 LO							
(Timed-secs) Off	60,100,140,180							
Std. Pressure Sw. in wc(Pa) Part No	1013515	1013515	1013515	1013515	1013515	1013515	1013166	1013166
(HI Heat)Blwer Switch Press (Close)	0.95 (237)	0.95 (237)	0.95 (237)	0.95 (237)	0.95 (237)	0.95 (237)	1.30 (324)	1.30 (324)
Blower Switch Pressure (Open)	0.80 (199)	0.80 (199)	0.80 (199)	0.80 (199)	0.80 (199)	0.80 (199)	1.10 (274)	1.10 (274)
(LO Heat)Trans Switch Press (Close)	1.70 (423)	1.70 (423)	1.70 (423)	1.70 (423)	1.70 (423)	1.70 (423)	1.80 (448)	1.80 (448)
Transition Switch Pressure (Open)	1.50 (374)	1.50 (374)	1.50 (374)	1.50 (374)	1.50 (374)	1.50 (374)	1.60 (398)	1.60 (398)
High Alt. Pressure Sw. in wc(Pa)								
Part No	1013165	1013165	1013165	1013165	1013165	1013165	1013157	1013157
(HI Heat)Blwer Switch Press (Close)	0.70 (174)	0.70 (174)	0.70 (174)	0.70 (174)	0.70 (174)	0.70 (174)	0.85 (212)	0.85 (212)
Blower Switch Pressure (Open)	0.55 (137)	0.55 (137)	0.55 (137)	0.55 (137)	0.55 (137)	0.55 (137)	0.70 (174)	0.70 (174)
(LO Heat)Trans Switch Press (Close)	1.40 (349)	1.40 (349)	1.40 (349)	1.40 (349)	1.40 (349)	1.40 (349)	1.70 (423)	1.70 (423)
Transition Switch Pressure (Open)	1.20 (299)	1.20 (299)	1.20 (299)	1.20 (299)	1.20 (299)	1.20 (299)	1.50 (374)	1.50 (374)
Blower Data								
Wheel Size D x W in(mm)	11 x 8(279 x 203)	11 x 10(279 x 254)	11 x 10(279 x 254)	11 x 10(279 x 254)	11 x 10(279 x 254)	11 x 10(279 x 254)	11 x 10(279 x 254)	11 x 10(279 x 254)
FLA Motor Amps/Max RPM	7.7/1240	9.6/1240	9.6/1240	9.6/1240	12.8/1240	12.8/1240	12.8/1240	12.8/1240
Motor Type/H.P.	ECM ¹ / ₂	ECM ³ / ₄	ECM ³ / ₄	ECM ³ / ₄	ECM/1	ECM/1	ECM/1	ECM/1
Filter Type & Size in(mm) (qty)	16x25x1(406x635x25)	16x25x1(406x635x25)	16x25x1(406x635x25)	16x25x1(406x635x25)	16x25x1(406x635x25) (2)	16x25x1(406x635x25) (2)	16x25x1(406x635x25) (2)	16x25x1(406x635x25) (2)
Min. Cool Cap. (Tons)	1.5	1.5	1.5	1.5	2	2	2	2
Max. Cool Cap. (Tons)	3	3	3	3	5	5	5	5
Gas Conversion Kits All Models								
Nat to Propane	NAHA002LP (1172959*)							
Propane to Nat	NAHA002NG (1172961*)							
*Order from Service Parts								

Circulation Air Blower Data - *9MPV050

Cooling Adjustment						Heating Rise Adjustment		
DIP Switch (OFF = 0 and ON = 1)	High Cool @ .50 in wc(125 Pa)		Low Cool (80% of High Cool)		** Adjust Jumper Setting	DIP Switch (OFF = 0 and ON = 1)	High Heat Rise Change @ 0.20 in wc (50 Pa)	Low Heat Rise Change at Resultant Static
5 & 6	CFM	L/s	CFM	L/s		3 & 4		
00	1246	588	997	471	+	00	-4	-3
*00	1211	571	969	457	*NOM	*00	0	0
00	1122	529	898	424	-	00	5	5
01	1105	521	884	417	+	01	3	4
01	1027	485	822	388	NOM	01	7	7
01	945	446	756	357	-	01	13	14
10	892	421	714	337	+	10	-1	0
10	820	387	656	310	NOM	10	4	5
10	745	352	596	281	-	10	9	9
11	688	325	550	260	+	11	-15	-15
11	609	287	487	230	NOM	11	-13	-12
11	541	255	433	204	-	11	-9	-9

Airflow performance includes 1" washable filter media.

*Factory Setting

**Adjust Jumper Setting (+, NOM, -) is applied to both Cooling and Heating

Note 1: HP Mode Jumper provides a 10% reduction in airflow when in Comfort position and a call for low or high cooling is present with the "O" line off. This feature is to provide lower airflow for running in HP Heating Mode if desirable.

Note 2: DEHUM mode (24VAC on DEHUM terminal) provides a 20% airflow reduction during cooling calls.

Note 3: Low Heat ESP is a result of High Heat ESP (- is decrease in rise).

Note 4: High and low heat rise values are approximate air temperature change from return air temperature when at factory default settings.

Table 2	Airflow	
DIP Switch (OFF = 0 and ON = 1)	Continuous Fan @ 0.10 in wc (25 Pa) ESP	
1 & 2	CFM	L/s
*00	592	279
01	1021	482
10	1346	635
11	1346	635

Table 3	SW2 DIP Assignments
DIP Switch	Blower Parameter
1 & 2	Cont Fan Adj
3 & 4	Heat Speed Adj
5 & 6	Cool Speed Adj
7 & 8	Cool On/Off Delay

* Factory Setting

Table 4	Cooling Delay Options (SW2 - 7, 8)			
	ON DELAY		OFF DELAY	
DIP SW2 - 7/8 (OFF = 0 and ON = 1)	Timed ON (sec)	Airflow during on delay	Timer OFF (sec)	Airflow during off delay
*00	5	OFF	90	100%
01	5	OFF	0	OFF
10	30	50%	30	100%
11	30	50%	180	50%

Airflow % is of High Cool airflow demand determined from SW2-5/6 Table 1

Airflow resumes to 100% after on delay time is completed

Airflow stops (or switches to continuous fan speed) after off delay time is completed

* Factory Setting

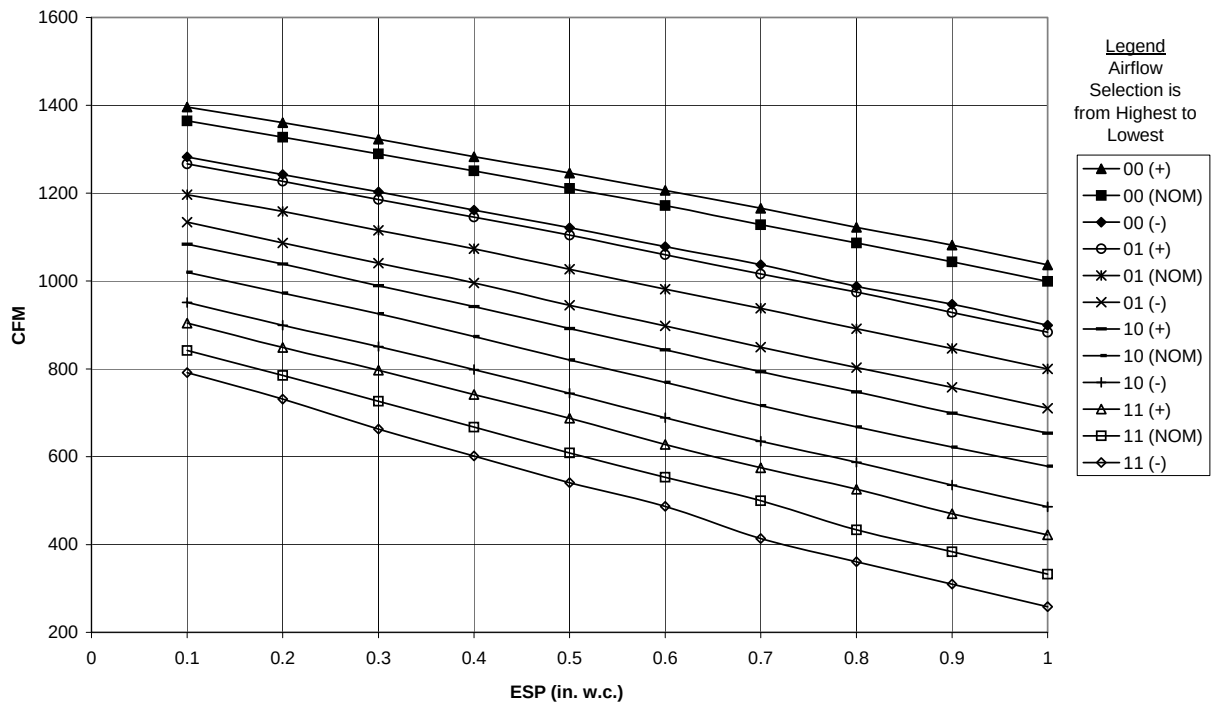
MAX CFM (L/s) for Factory Washable Filters		
Filter Size (in/mm)	CFM	L/s
14" X 25" (356 x 635)	1400	661
16" X 25" (406 x 635)	1600	755
20" X 25" (508 x 635)	2000	944
24" X 25" (610 x 635)	2500	1180
Max CFM (L/s) based on 600 FPM (3.0 m/s)		

NOTE: Disposable filters are typically rated at 300 FPM (1.5 m/s). These filters only allow half the airflow when compared to 600 FPM (3.0 m/s) filters.

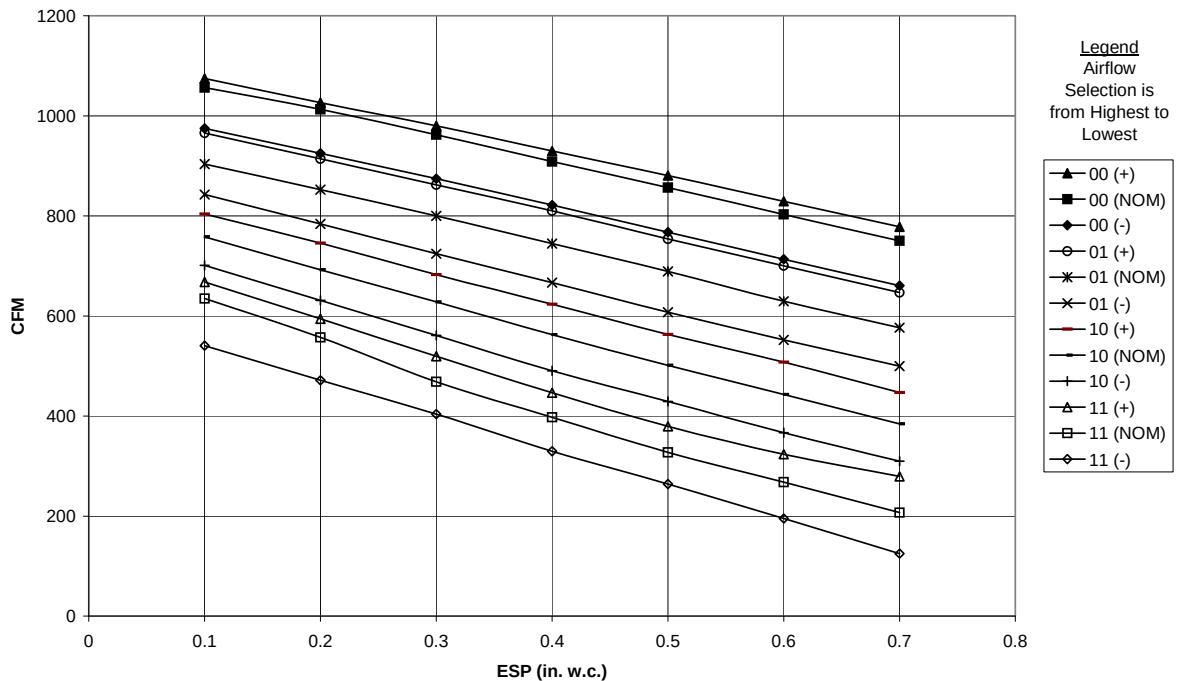
Circulation Air Blower Data - *9MPV050

Cooling Airflow Settings

High Cooling Airflows *9MPV050F12



Low Cooling Airflows *9MPV050F12



NOTE: OFF = 0 and ON = 1

Circulation Air Blower Data - *9MPV075

Cooling Adjustment						Heating Rise Adjustment		
DIP Switch (OFF = 0 and ON = 1)	High Cool @ .50 in wc(125 Pa)		Low Cool (80% of High Cool)		** Adjust Jumper Setting	DIP Switch (OFF = 0 and ON = 1)	High Heat Rise Change @ 0.20 in wc (50 Pa)	Low Heat Rise Change at Resultant Static
5 & 6	CFM	L/s	CFM	L/s		3 & 4		
00	1342	633	1074	507	+	00	-4	-4
*00	1210	571	968	457	*NOM	*00	0	0
00	1053	497	842	397	-	00	5	4
01	1135	536	908	429	+	01	1	1
01	1020	481	816	385	NOM	01	6	5
01	872	412	698	329	-	01	12	10
10	965	455	772	364	+	10	-1	-1
10	840	396	672	317	NOM	10	3	3
10	680	321	544	256	-	10	9	8
11	708	334	566	267	+	11	-6	-6
11	590	278	472	223	NOM	11	-2	-3
11	488	230	390	184	-	11	3	2

Airflow performance includes 1" washable filter media.

*Factory Setting

**Adjust Jumper Setting (+, NOM, -) is applied to both Cooling and Heating

Note 1: HP Mode Jumper provides a 10% reduction in airflow when in Comfort position and a call for low or high cooling is present with the "O" line off. This feature is to provide lower airflow for running in HP Heating Mode if desirable.

Note 2: DEHUM mode (24VAC on DEHUM terminal) provides a 20% airflow reduction during cooling calls.

Note 3: Low Heat ESP is a result of High Heat ESP (- is decrease in rise).

Note 4: High and low heat rise values are approximate air temperature change from return air temperature when at factory default settings.

Table 2	Airflow	
DIP Switch (OFF = 0 and ON = 1)	Continuous Fan @ 0.10 in wc (25 Pa) ESP	
1 & 2	CFM	L/s
*00	612	289
01	1096	517
10	1403	662
11	1403	662

Table 3	SW2 DIP Assignments
DIP Switch	Blower Parameter
1 & 2	Cont Fan Adj
3 & 4	Heat Speed Adj
5 & 6	Cool Speed Adj
7 & 8	Cool On/Off Delay

* Factory Setting

Table 4	Cooling Delay Options (SW2 - 7, 8)			
	ON DELAY		OFF DELAY	
DIP SW2 - 7/8 (OFF = 0 and ON = 1)	Timed ON (sec)	Airflow during on delay	Timer OFF (sec)	Airflow during off delay
*00	5	OFF	90	100%
01	5	OFF	0	OFF
10	30	50%	30	100%
11	30	50%	180	50%

Airflow % is of High Cool airflow demand determined from SW2-5/6 Table 1

Airflow resumes to 100% after on delay time is completed

Airflow stops (or switches to continuous fan speed) after off delay time is completed

* Factory Setting

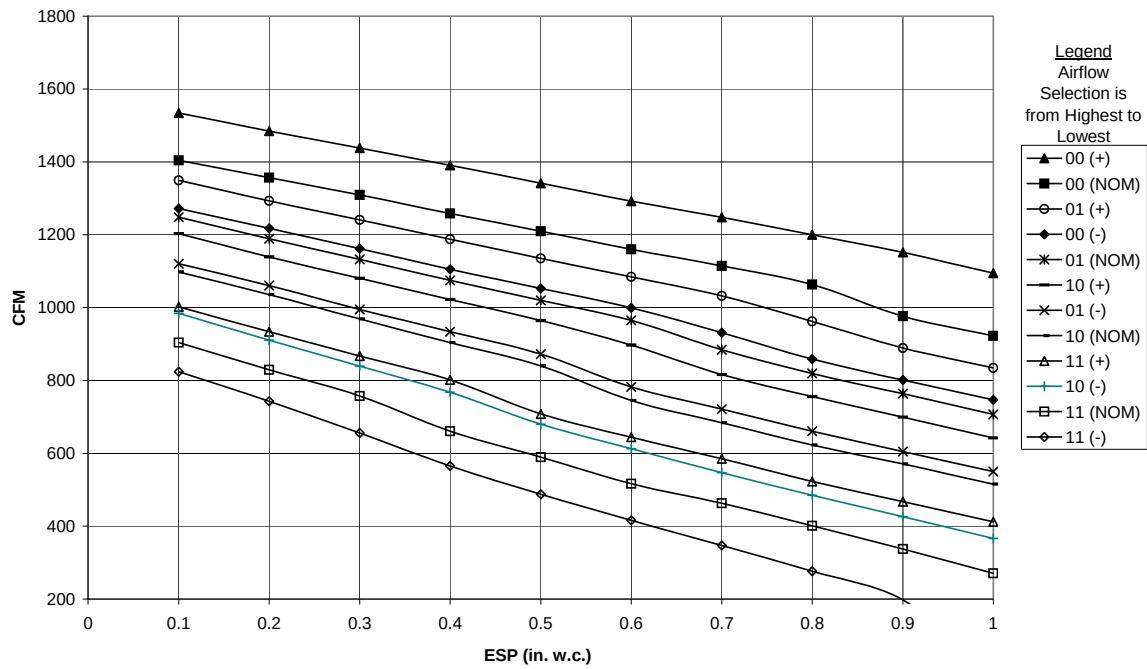
MAX CFM (L/s) for Factory Washable Filters		
Filter Size (in/mm)	CFM	L/s
14" X 25" (356 x 635)	1400	661
16" X 25" (406 x 635)	1600	755
20" X 25" (508 x 635)	2000	944
24" X 25" (610 x 635)	2500	1180
Max CFM (L/s) based on 600 FPM (3.0 m/s)		

NOTE: Disposable filters are typically rated at 300 FPM (1.5 m/s). These filters only allow half the airflow when compared to 600 FPM (3.0 m/s) filters.

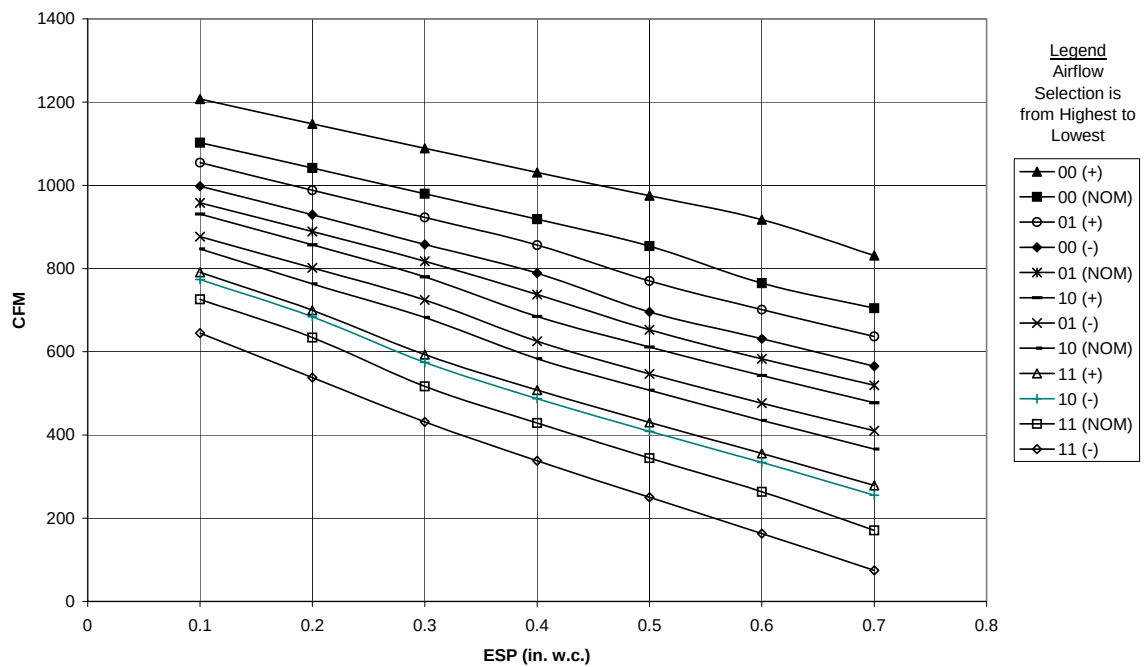
Circulation Air Blower Data - *9MPV075

Cooling Airflow Settings

High Cooling Airflows
*9MPV075F12



Low Cooling Airflows
*9MPV075F12



NOTE: OFF = 0 and ON = 1

Circulation Air Blower Data - *9MPV100

Cooling Adjustment						Heating Rise Adjustment		
DIP Switch (OFF = 0 and ON = 1)	High Cool @ .50 in wc(125 Pa)		Low Cool (80% of High Cool)		** Adjust Jumper Setting	DIP Switch (OFF = 0 and ON = 1)	High Heat Rise Change @ 0.20 in wc (50 Pa)	Low Heat Rise Change at Resultant Static
5 & 6	CFM	L/s	CFM	L/s		3 & 4		
00	2144	1012	1715	809	+	00	-4	-4
*00	2013	950	1610	760	*NOM	*00	0	0
00	1842	869	1474	696	-	00	5	5
01	1772	836	1418	669	+	01	2	1
01	1624	766	1299	613	NOM	01	8	7
01	1471	694	1177	555	-	01	14	14
10	1367	645	1094	516	+	10	0	-1
10	1227	579	982	463	NOM	10	6	5
10	1077	508	862	407	-	10	13	11
11	930	439	744	351	+	11	-6	-7
11	808	380	646	305	NOM	11	-2	-2
11	634	299	507	239	-	11	3	3

Airflow performance includes 1" washable filter media.

*Factory Setting

**Adjust Jumper Setting (+, NOM, -) is applied to both Cooling and Heating

Note 1: HP Mode Jumper provides a 10% reduction in airflow when in Comfort position and a call for low or high cooling is present with the "O" line off. This feature is to provide lower airflow for running in HP Heating Mode if desirable.

Note 2: DEHUM mode (24VAC on DEHUM terminal) provides a 20% airflow reduction during cooling calls.

Note 3: Low Heat ESP is a result of High Heat ESP (- is decrease in rise).

Note 4: High and low heat rise values are approximate air temperature change from return air temperature when at factory default settings.

Table 2	Airflow	
DIP Switch (OFF = 0 and ON = 1)	Continuous Fan @ 0.10 in wc (25 Pa) ESP	
1 & 2	CFM	L/s
*00	1007	475
01	1742	822
10	2204	1040
11	2204	1040

Table 3	SW2 DIP Assignments
DIP Switch	Blower Parameter
1 & 2	Cont Fan Adj
3 & 4	Heat Speed Adj
5 & 6	Cool Speed Adj
7 & 8	Cool On/Off Delay

* Factory Setting

Table 4	Cooling Delay Options (SW2 - 7, 8)			
	ON DELAY		OFF DELAY	
DIP SW2 - 7/8 (OFF = 0 and ON = 1)	Timed ON (sec)	Airflow during on delay	Timer OFF (sec)	Airflow during off delay
*00	5	OFF	90	100%
01	5	OFF	0	OFF
10	30	50%	30	100%
11	30	50%	180	50%

Airflow % is of High Cool airflow demand determined from SW2-5/6 Table 1

Airflow resumes to 100% after on delay time is completed

Airflow stops (or switches to continuous fan speed) after off delay time is completed

* Factory Setting

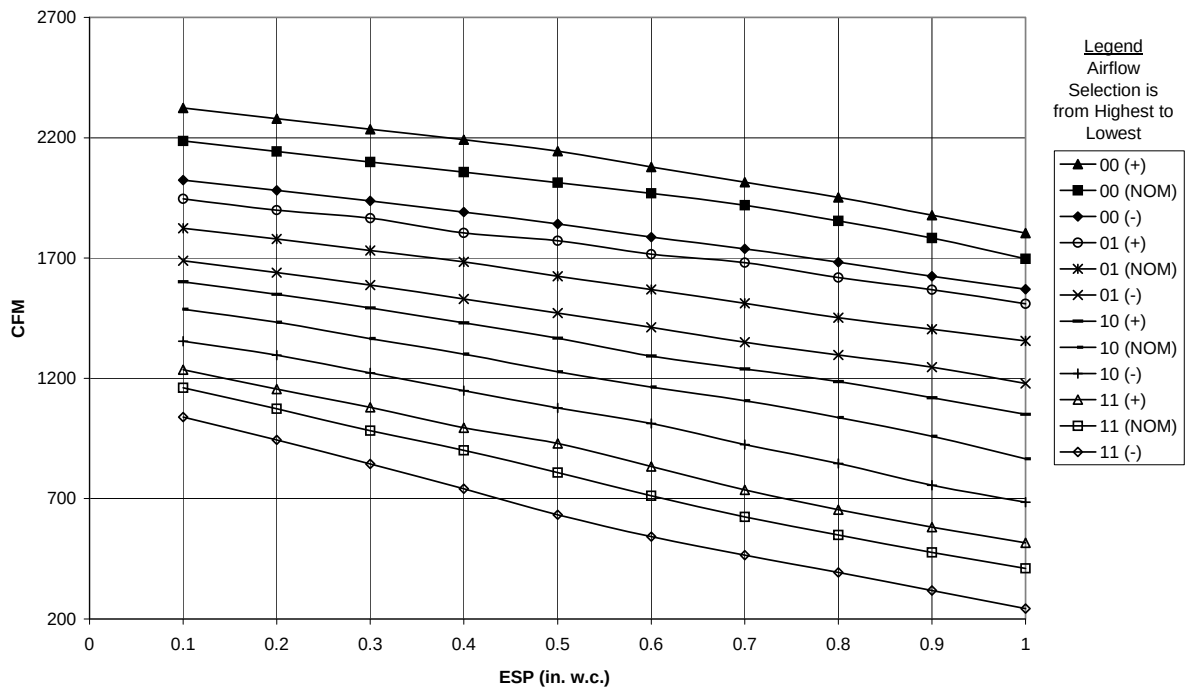
MAX CFM (L/s) for Factory Washable Filters		
Filter Size (in/mm)	CFM	L/s
14" X 25" (356 x 635)	1400	661
16" X 25" (406 x 635)	1600	755
20" X 25" (508 x 635)	2000	944
24" X 25" (610 x 635)	2500	1180
Max CFM (L/s) based on 600 FPM (3.0 m/s)		

NOTE: Disposable filters are typically rated at 300 FPM (1.5 m/s). These filters only allow half the airflow when compared to 600 FPM (3.0 m/s) filters.

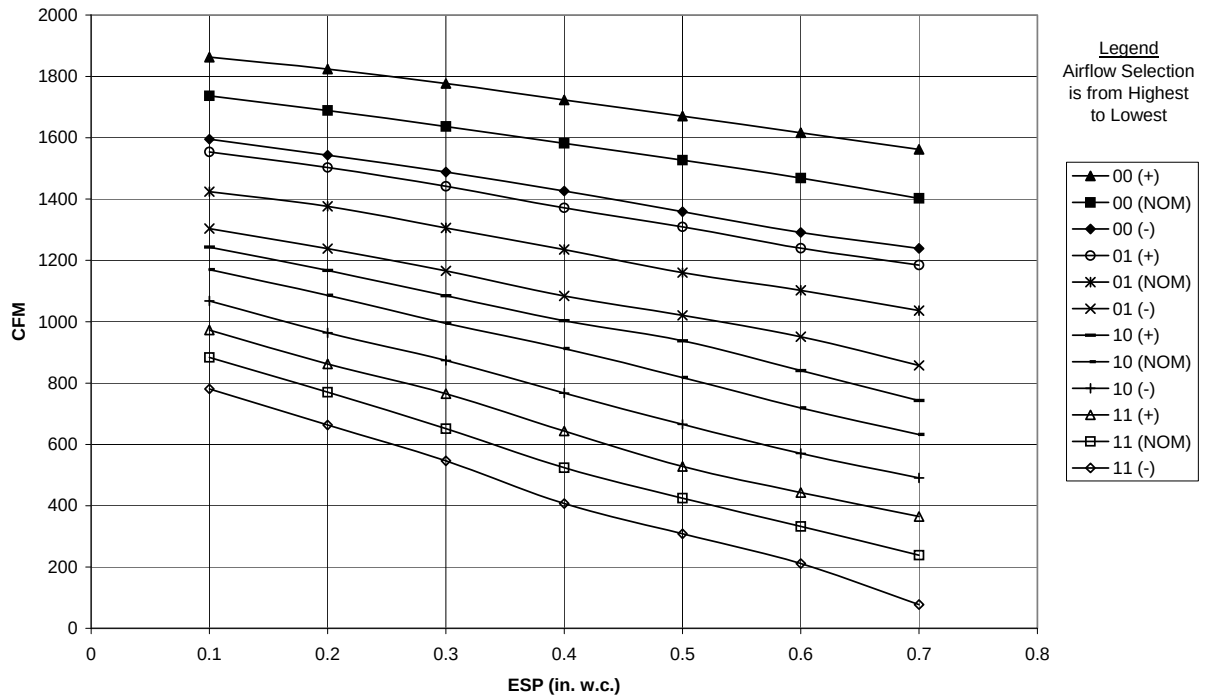
Circulation Air Blower Data - *9MPV100

Cooling Airflow Settings

High Cooling Airflows *9MPV100J20



Low Cooling Airflows *9MPV100J20



NOTE: OFF = 0 and ON = 1

Circulation Air Blower Data - *9MPV125

Cooling Adjustment						Heating Rise Adjustment		
DIP Switch (OFF = 0 and ON = 1)	High Cool @ .50 in wc(125 Pa)		Low Cool (80% of High Cool)		** Adjust Jumper Setting	DIP Switch (OFF = 0 and ON = 1)	High Heat Rise Change @ 0.20 in wc (50 Pa)	Low Heat Rise Change at Resultant Static
5 & 6	CFM	L/s	CFM	L/s		3 & 4		
00	2150	1015	1720	812	+	00	-4	-4
*00	2025	956	1620	764	*NOM	*00	0	0
00	1856	876	1485	700	-	00	4	5
01	1755	828	1404	663	+	01	1	2
01	1615	762	1292	610	NOM	01	6	7
01	1452	685	1162	548	-	01	12	13
10	1338	631	1070	505	+	10	-1	0
10	1201	567	961	454	NOM	10	3	4
10	1069	504	855	403	-	10	9	10
11	909	429	727	343	+	11	-6	-6
11	800	377	640	302	NOM	11	-3	-3
11	627	296	502	237	-	11	3	3

Airflow performance includes 1" washable filter media.

*Factory Setting

**Adjust Jumper Setting (+, NOM, -) is applied to both Cooling and Heating

Note 1: HP Mode Jumper provides a 10% reduction in airflow when in Comfort position and a call for low or high cooling is present with the "O" line off. This feature is to provide lower airflow for running in HP Heating Mode if desirable.

Note 2: DEHUM mode (24VAC on DEHUM terminal) provides a 20% airflow reduction during cooling calls.

Note 3: Low Heat ESP is a result of High Heat ESP (- is decrease in rise).

Note 4: High and low heat rise values are approximate air temperature change from return air temperature when at factory default settings.

Table 2	Airflow	
DIP Switch (OFF = 0 and ON = 1)	Continuous Fan @ 0.10 in wc (25 Pa) ESP	
1 & 2	CFM	L/s
*00	1032	487
01	1778	839
10	2178	1028
11	2178	1028

Table 3	SW2 DIP Assignments
DIP Switch	Blower Parameter
1 & 2	Cont Fan Adj
3 & 4	Heat Speed Adj
5 & 6	Cool Speed Adj
7 & 8	Cool On/Off Delay

* Factory Setting

Table 4	Cooling Delay Options (SW2 - 7, 8)			
	ON DELAY		OFF DELAY	
DIP SW2 - 7/8 (OFF = 0 and ON = 1)	Timed ON (sec)	Airflow during on delay	Timer OFF (sec)	Airflow during off delay
*00	5	OFF	90	100%
01	5	OFF	0	OFF
10	30	50%	30	100%
11	30	50%	180	50%

Airflow % is of High Cool airflow demand determined from SW2-5/6 Table 1

Airflow resumes to 100% after on delay time is completed

Airflow stops (or switches to continuous fan speed) after off delay time is completed

* Factory Setting

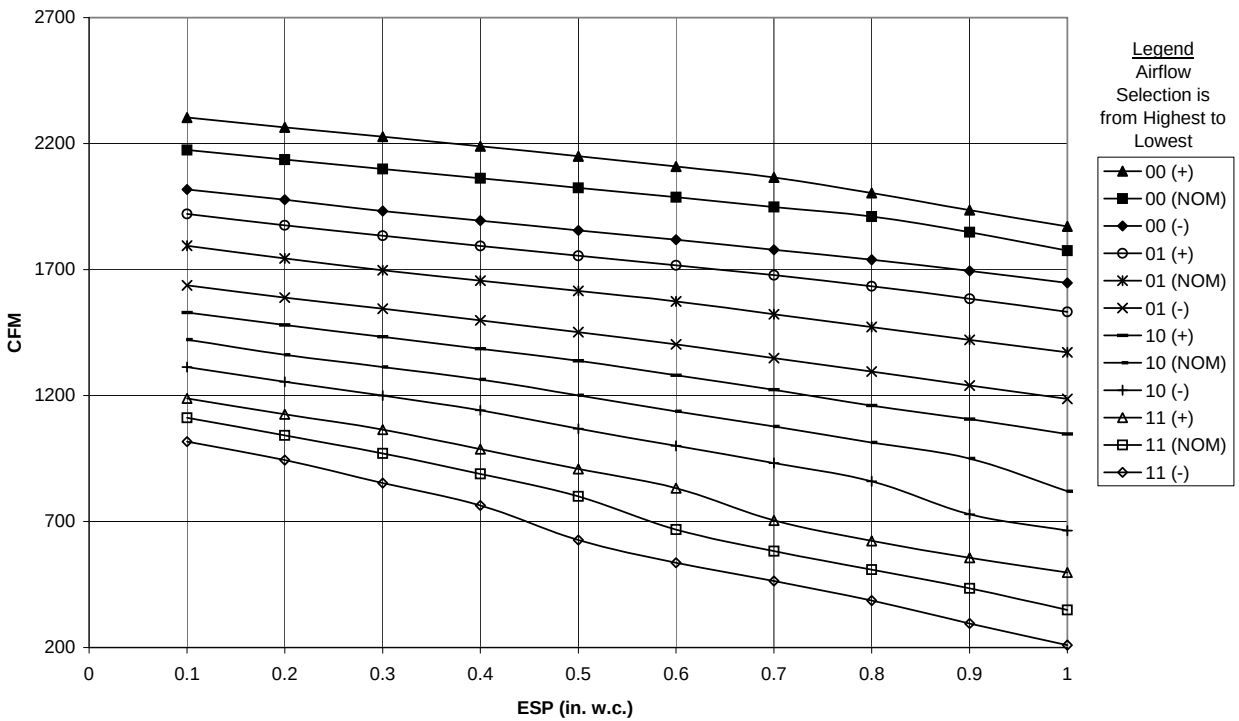
MAX CFM (L/s) for Factory Washable Filters		
Filter Size (in/mm)	CFM	L/s
14" X 25" (356 x 635)	1400	661
16" X 25" (406 x 635)	1600	755
20" X 25" (508 x 635)	2000	944
24" X 25" (610 x 635)	2500	1180
Max CFM (L/s) based on 600 FPM (3.0 m/s)		

NOTE: Disposable filters are typically rated at 300 FPM (1.5 m/s). These filters only allow half the airflow when compared to 600 FPM (3.0 m/s) filters.

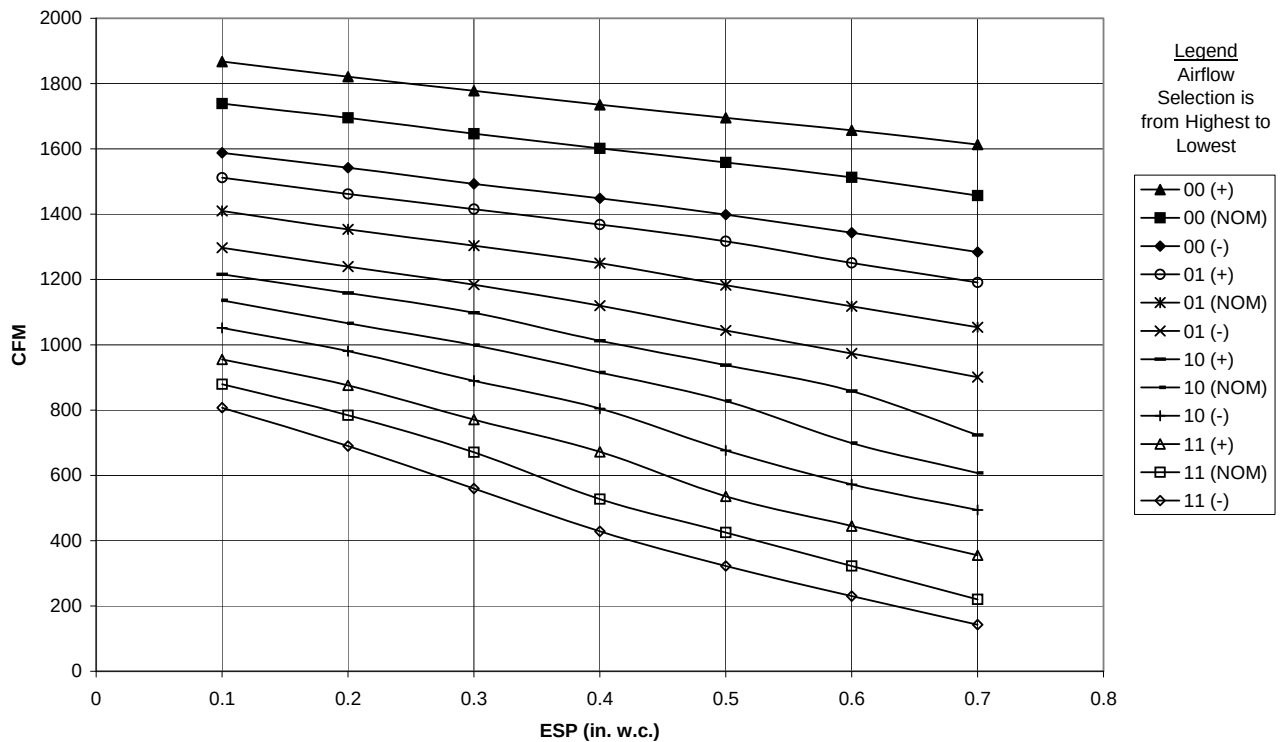
Circulation Air Blower Data - *9MPV125

Cooling Airflow Setting

High Cooling Airflows *9MPV125L20



Low Cooling Airflows *9MPV125L20



NOTE: OFF = 0 and ON = 1

TECHNICAL SUPPORT

Manufacturers Number (Mfr No -See Rating Plate)								
ALL Models								
Specifications								
	*9MVX040F12		*9MVX060F12		*9MVX080J20		*9MVX100L20	
General								
Gas Type	Nat	Propane	Nat	Propane	Nat	Propane	Nat	Propane
Transformer Size (VA)	40							
T'stat Heat Anticipator	.50							
Input (Btuh) Std/Alt.	HI Heat	40000	60000	80000	100000			
	LO Heat	28000	42000	56000	70000			
Output (Btuh) Std/Alt.	HI Heat	38000	58000	77000	96000			
	LO Heat	27000	41000	54000	67000			
Temp. Rise (°F/°C)	HI Heat	25-55 / 14-31	30-60 / 17-33	30-60 / 17-33	30-60 / 17-33			
	LO Heat	25-55 / 14-31	30-60 / 17-33	30-60 / 17-33	30-60 / 17-33			
Electrical (Volts/Hz)	115 / 60		115 / 60	115 / 60	115/60			
Rating Plate Amps	9.5		11.4	14.6	14.6			
Gas & Ignition								
Gas Type	Nat.	Propane	Nat.	Propane	Nat.	Propane	Nat.	Propane
Std. Main Orifices (qty/size)	2/44	2/55	3/44	3/55	4/44	4/55	5/44	5/55
Gas Valve Honeywell	VR8205Q	VR8205Q	VR8205Q	VR8205Q	VR8205Q	VR8205Q	VR8205Q	VR8205Q
Regulation Type	SNAP	SNAP	SNAP	SNAP	SNAP	SNAP	SNAP	SNAP
Manifold Press.	HI Heat (in wc/Pa)	3.5 / 872	10 / 2490	3.5 / 872	10 / 2490	3.5 / 872	10 / 2490	3.5 / 872
	LO Heat (in wc/Pa)	1.7 / 423	4.9 / 1221	1.7 / 423	4.9 / 1221	1.7 / 423	4.9 / 1221	4.9 / 1221
Ignition Type	Hot Surface							
Combustion								
Flue Outlet Size inches(mm)	2 (50.8)		2 (50.8)	3 (76.2)	3 (76.2)			
Std. Outlet Temp (less than) (°F/°C)	140 / 60		140 / 60	140 / 60	140 / 60			
Comb. Blower (MFD/Volts)	4 / 370		4 / 370	4 / 370	4 / 370			
@ Blower / @ Transition Box (HI Heat)								
Std. Pressures - in wc(Pa)								
5' No Elbows	-2.10/-3.47 (-523/-864)		-2.26/-3.52 (-563/-877)	-2.05/-3.34 (-510/-832)	-2.34/-3.45 (-583/-859)			
40' +5-90° DWV Elbows	-1.90/-3.38 (-473/-842)		-1.52/-2.77 (-378/-690)	-1.93/-3.28 (-481/-817)	-2.16/-3.29 (-538/-819)			
@ Blower / @ Transition Box (LO Heat)								
Std. Pressures - in wc(Pa)								
5' No Elbows	-1.38/-2.29 (-344/-570)		-1.50/-2.35 (-374/-585)	-1.55/-2.45 (-386/-610)	-1.84/-2.70 (-458/-672)			
40' +5-90° DWV Elbows	-1.22/-2.21 (-304/-550)		-1.16/-2.06 (-289/-513)	-1.33/-2.34 (-331/-583)	-1.72/-2.61 (-428/-650)			
Limits & Controls								
Rollout Switch (°F/°C)	300 / 149		300 / 149	300 / 149	300 / 149			
Limit Control Setting (°F/°C)	210 / 99		230 / 110	240 / 116	180 / 82			
Furnace Control (Type)	Integrated							
Furnace Control On	30 HI /45 LO							
(Timed-secs) Off	60,100,140,180							
Std. Pressure Sw. - in wc(Pa) Part No	1177762		1177763	1177764	1177765			
(HI Heat)Blwer Switch Press (Close)	0.65 (162)		0.58 (144)	0.95 (237)	1.56 (396)			
Blower Switch Pressure (Open)	0.50 (125)		0.43 (107)	0.80 (199)	1.38 (344)			
(LO Heat)Trans Switch Press (Close)	1.85 (461)		1.73 (431)	1.89 (471)	2.32 (578)			
Transition Switch Pressure (Open)	1.66 (413)		1.55 (386)	1.70 (423)	2.11 (526)			
High Alt Pressure Sw.-in wc(Pa) Part No	1177766		1177767	1177768	1177769			
(HI Heat)Blwer Switch Press (Close)	0.65 (162)		0.58 (144)	0.95 (237)	1.30 (324)			
Blower Switch Pressure (Open)	0.50 (125)		0.43 (107)	0.80 (199)	1.14 (384)			
(LO Heat)Trans Switch Press (Close)	1.58 (393)		1.48 (369)	1.61 (401)	1.97 (491)			
Transition Switch Pressure (Open)	1.40 (349)		1.31 (326)	1.43 (356)	1.78 (443)			
Blower Data								
Wheel Size D x W in(mm)	11 x 8 (279 x 203)		11 x 10 (279 x 254)	11 x 10 (279 x 254)	11 x 10 (279 x 254)			
FLA Motor Amps/Max RPM								
Motor Type/H.P.	ECM ¹ / ₂		ECM ³ / ₄	ECM/1	ECM/1			
Filter Type & Size (qty.) Permanent - in(mm)	16x25x1 (406x635x25)		16x25x1 (406x635x25)	16x25x1 (406x635x25) (2)	16x25x1 (406x635x25) (2)			
Min. Cool Cap. (Tons)	1.5		1.5	2	2			
Max. Cool Cap. (Tons)	3		3	5	5			
Gas Conversion Kits All Models								
Nat to Propane	NAHA00601LP							
Propane to Nat	NAHA00601NG							

Circulation Air Blower Data - *9MVX040

Cooling Adjustment						Heating Rise Adjustment		
DIP Switch (OFF = 0 ON = 1)	High Cool @ .50 in wc(125 Pa)		Low Cool (80% of High Cool)		** Adjust Jumper Setting	DIP Switch (OFF = 0 ON = 1)	High Heat Rise Change @ 0.20 in wc (50 Pa)	Low Heat Rise Change at Resultant Static
5 & 6	CFM	L/s	CFM	L/s		3 & 4		
00	1244	587	995	470	+	00	-3	-3
*00	1206	569	965	455	*NOM	*00	0	0
00	1126	531	901	425	-	00	4	4
01	1109	523	887	419	+	01	2	2
01	1032	487	826	390	NOM	01	6	6
01	941	444	753	355	-	01	13	10
10	901	425	721	340	+	10	0	-1
10	828	391	662	313	NOM	10	3	3
10	757	357	606	286	-	10	8	7
11	705	333	564	266	+	11	-12	-13
11	633	299	506	239	NOM	11	-10	-10
11	556	262	445	210	-	11	-8	-8

Airflow performance includes 1" washable filter media.

*Factory Setting

**Adjust Jumper Setting (+, NOM, -) is applied to both Cooling and Heating

Note 1: HP Mode Jumper provides a 10% reduction in airflow when in Comfort position and a call for low or high cooling is present with the "O" line off. This feature is to provide lower airflow for running in HP Heating Mode if desirable.

Note 2: DEHUM mode (24VAC on DEHUM terminal) provides a 20% airflow reduction during cooling calls.

Note 3: Low Heat ESP is a result of High Heat ESP (- is decrease in rise).

Note 4: High and low heat rise values are approximate air temperature change from return air temperature when at factory default settings.

Table 2	Airflow	
DIP Switch (OFF = 0 / ON = 1)	Continuous Fan @ 0.10 in wc (25 Pa) ESP	
1 & 2	CFM	L/s
*00	592	279
01	1021	482
10	1346	635
11	1346	635

Table 3	SW2 DIP Assignments
DIP Switch	Blower Parameter
1 & 2	Cont Fan Adj
3 & 4	Heat Speed Adj
5 & 6	Cool Speed Adj
7 & 8	Cool On/Off Delay

* Factory Setting

Table 4	Cooling Delay Options (SW2 - 7, 8)			
	ON DELAY		OFF DELAY	
	Timed ON (sec)	Airflow during on delay	Timer OFF (sec)	Airflow during off delay
DIP SW2 - 7/8 (OFF = 0 / ON = 1)				
*00	5	OFF	90	100%
01	5	OFF	0	OFF
10	30	50%	30	100%
11	30	50%	180	50%

Airflow % is of High Cool airflow demand determined from SW2-5/6 Table 1

Airflow resumes to 100% after on delay time is completed

Airflow stops (or switches to continuous fan speed) after off delay time is completed

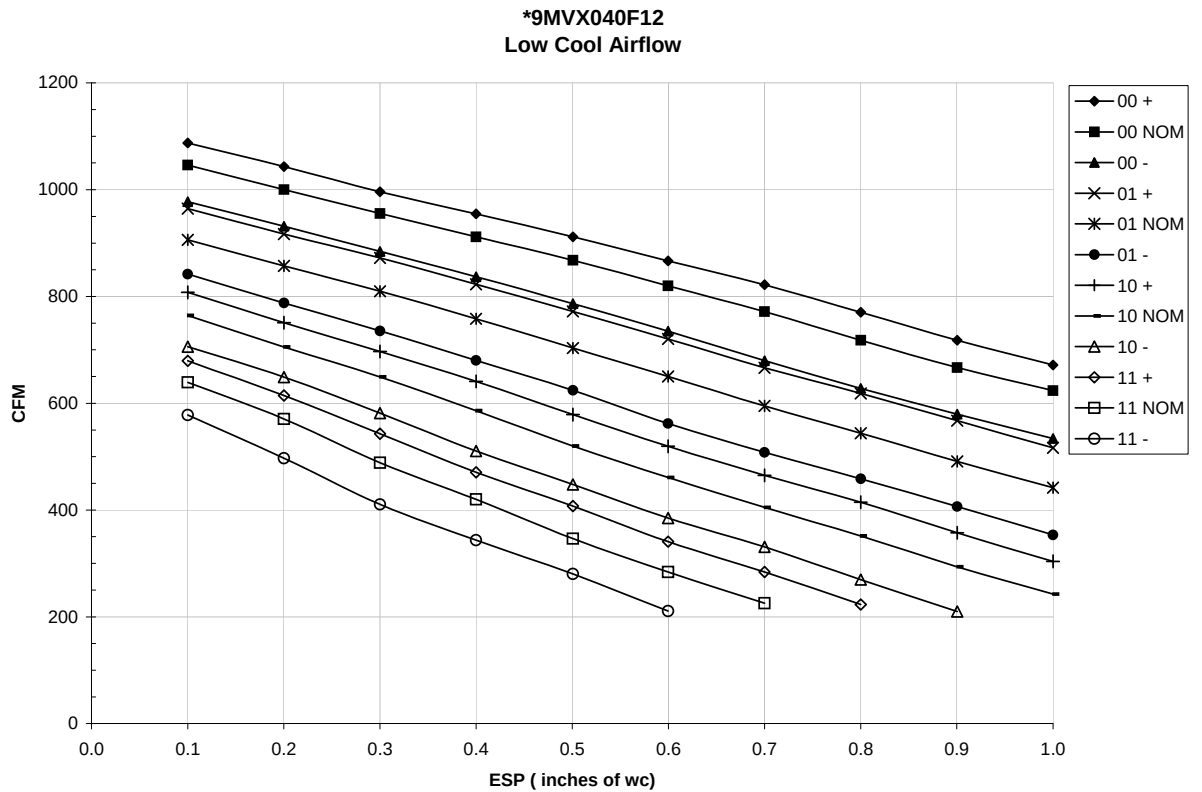
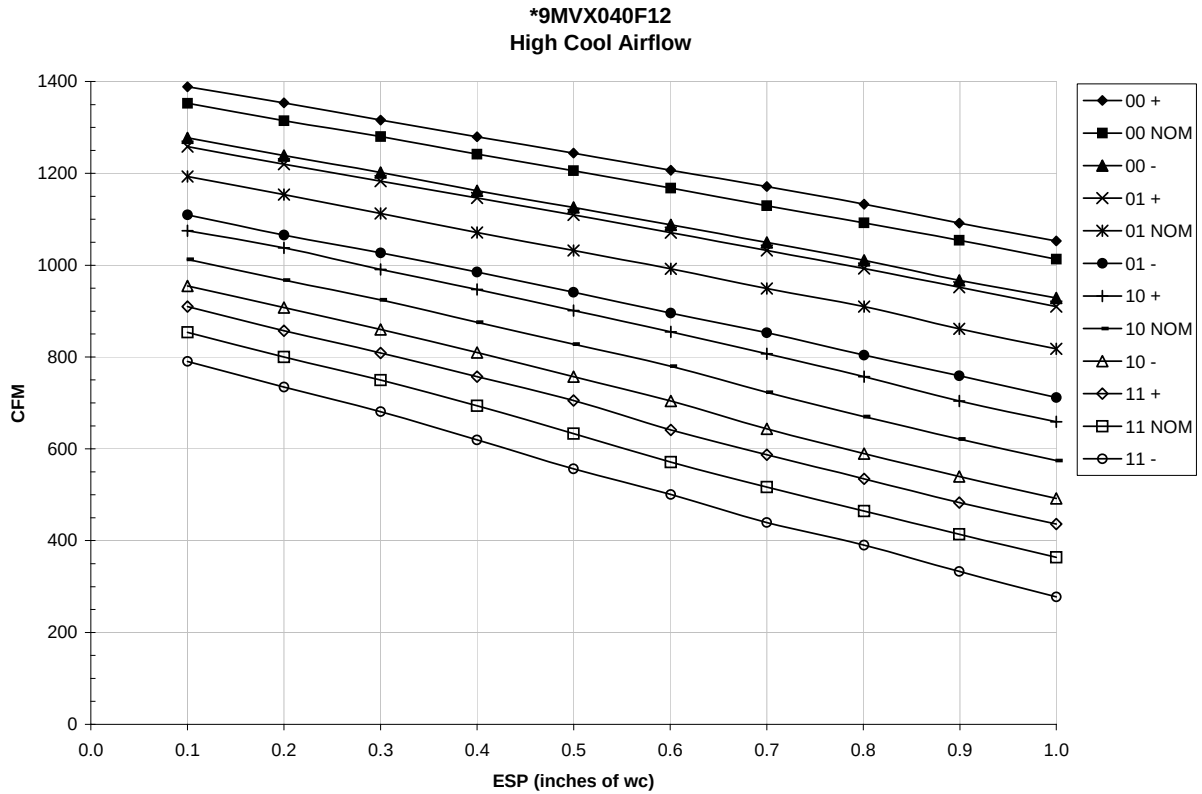
* Factory Setting

MAX CFM (L/s) for Factory Washable Filters		
Filter Size (in/mm)	CFM	L/s
14" X 25" (356 x 635)	1400	661
16" X 25" (406 x 635)	1600	755
20" X 25" (508 x 635)	2000	944
24" X 25" (610 x 635)	2500	1180
Max CFM (L/s) based on 600 FPM (3.0 m/s)		

NOTE: Disposable filters are typically rated at 300 FPM (1.5 m/s). These filters only allow half the airflow when compared to 600 FPM (3.0 m/s) filters.

Circulation Air Blower Data - *9MVX040

Cooling Airflow Settings



NOTE: OFF = 0 and ON = 1

Circulation Air Blower Data - *9MVX060

Cooling Adjustment						Heating Rise Adjustment		
DIP Switch (OFF = 0 ON = 1)	High Cool @ .50 in wc(125 Pa)		Low Cool (80% of High Cool)		** Adjust Jumper Setting	DIP Switch (OFF = 0 ON = 1)	High Heat Rise Change @ 0.20 in wc (50 Pa)	Low Heat Rise Change at Resultant Static
5 & 6	CFM	L/s	CFM	L/s		3 & 4		
00	1377	650	1102	650	+	00	-3	-3
*00	1239	585	991	585	*NOM	*00	0	0
00	1097	518	878	518	-	00	3	3
01	1165	550	932	550	+	01	1	2
01	1044	493	835	493	NOM	01	4	4
01	889	420	711	420	-	01	8	8
10	966	456	773	456	+	10	-1	0
10	848	400	678	400	NOM	10	2	2
10	715	337	572	337	-	10	7	7
11	74	353	599	353	+	11	-5	-4
11	650	307	520	307	NOM	11	-2	-2
11	523	247	418	247	-	11	1	1

Airflow performance includes 1" washable filter media.

*Factory Setting

**Adjust Jumper Setting (+, NOM, -) is applied to both Cooling and Heating

Note 1: HP Mode Jumper provides a 10% reduction in airflow when in Comfort position and a call for low or high cooling is present with the "O" line off. This feature is to provide lower airflow for running in HP Heating Mode if desirable.

Note 2: DEHUM mode (24VAC on DEHUM terminal) provides a 20% airflow reduction during cooling calls.

Note 3: Low Heat ESP is a result of High Heat ESP (- is decrease in rise).

Note 4: High and low heat rise values are approximate air temperature change from return air temperature when at factory default settings.

Table 2	Airflow	
DIP Switch (OFF = 0 / ON = 1)	Continuous Fan @ 0.10 in wc (25 Pa) ESP	
1 & 2	CFM	L/s
*00	612	475
01	1096	822
10	1403	1040
11	1403	1040

Table 3	SW2 DIP Assignments
DIP Switch	Blower Parameter
1 & 2	Cont Fan Adj
3 & 4	Heat Speed Adj
5 & 6	Cool Speed Adj
7 & 8	Cool On/Off Delay

* Factory Setting

Table 4	Cooling Delay Options (SW2 - 7, 8)			
	ON DELAY		OFF DELAY	
DIP SW2 - 7/8 (OFF = 0 / ON = 1)	Timed ON (sec)	Airflow during on delay	Timer OFF (sec)	Airflow during off delay
*00	5	OFF	90	100%
01	5	OFF	0	OFF
10	30	50%	30	100%
11	30	50%	180	50%

Airflow % is of High Cool airflow demand determined from SW2-5/6 Table 1

Airflow resumes to 100% after on delay time is completed

Airflow stops (or switches to continuous fan speed) after off delay time is completed

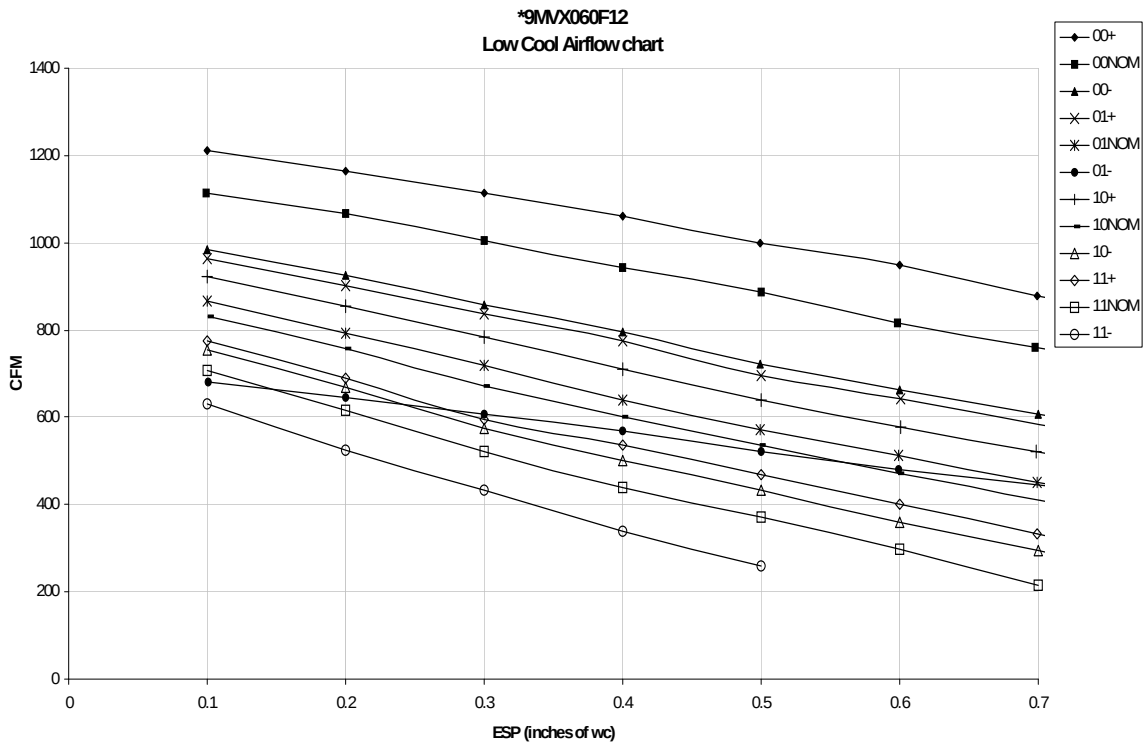
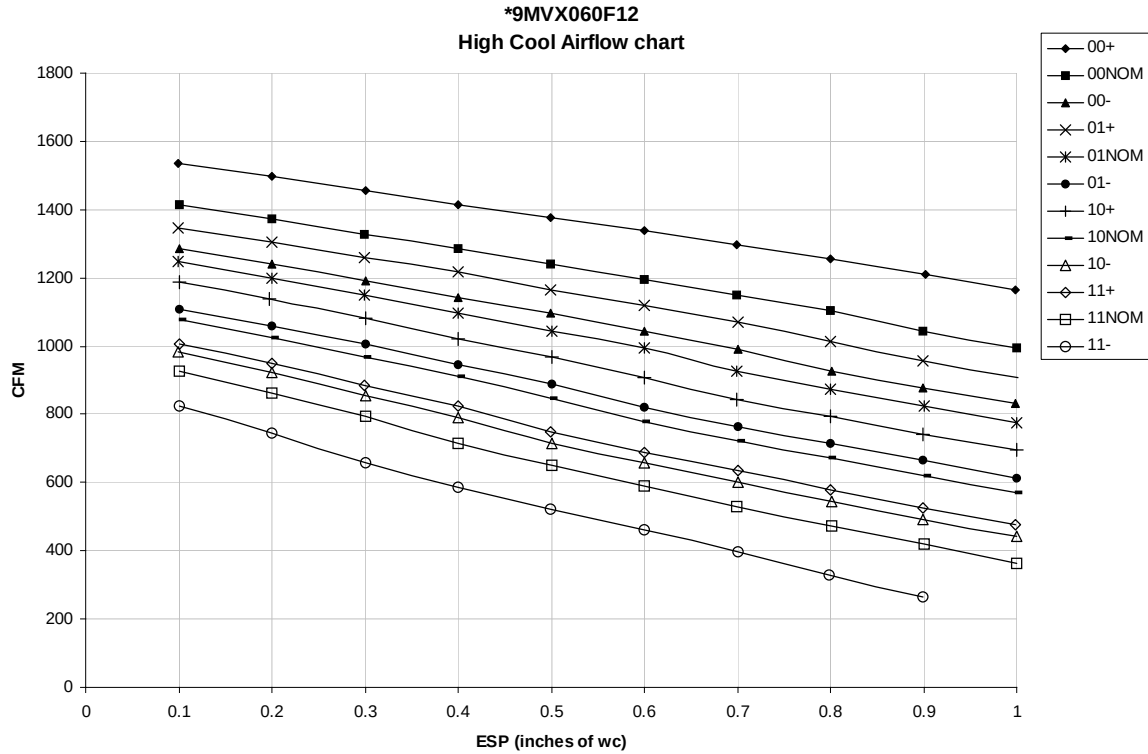
* Factory Setting

MAX CFM (L/s) for Factory Washable Fil- ters		
Filter Size (in/mm)	CFM	L/s
14" X 25" (356 x 635)	1400	661
16" X 25" (406 x 635)	1600	755
20" X 25" (508 x 635)	2000	944
24" X 25" (610 x 635)	2500	1180
Max CFM (L/s) based on 600 FPM (3.0 m/s)		

NOTE: Disposable filters are typically rated at 300 FPM (1.5 m/s). These filters only allow half the airflow when compared to 600 FPM (3.0 m/s) filters.

Circulation Air Blower Data - *9MVX060

Cooling Airflow Settings



NOTE: OFF = 0 and ON = 1

Circulation Air Blower Data - *9MVX080

Cooling Adjustment						Heating Rise Adjustment		
DIP Switch (OFF = 0 ON = 1)	High Cool @ .50 in wc(125 Pa)		Low Cool (80% of High Cool)		** Adjust Jumper Setting	DIP Switch (OFF = 0 ON = 1)	High Heat Rise Change @ 0.20 in wc (50 Pa)	Low Heat Rise Change at Resultant Static
5 & 6	CFM	L/s	CFM	L/s		3 & 4		
00	2146	1013	1717	1013	+	00	-3	-3
*00	2009	948	1607	948	*NOM	*00	0	0
00	1843	870	1474	870	-	00	5	5
01	1779	840	1423	840	+	01	3	3
01	1645	776	1316	776	NOM	01	6	8
01	1498	707	1198	707	-	01	11	11
10	1409	665	1127	665	+	10	0	0
10	1294	611	1035	611	NOM	10	6	4
10	1147	541	918	541	-	10	10	9
11	1005	474	804	474	+	11	-5	-6
11	887	419	710	419	NOM	11	-2	-2
11	757	357	606	357	-	11	3	2

Airflow performance includes 1" washable filter media.

*Factory Setting

**Adjust Jumper Setting (+, NOM, -) is applied to both Cooling and Heating

Note 1: HP Mode Jumper provides a 10% reduction in airflow when in Comfort position and a call for low or high cooling is present with the "O" line off. This feature is to provide lower airflow for running in HP Heating Mode if desirable.

Note 2: DEHUM mode (24VAC on DEHUM terminal) provides a 20% airflow reduction during cooling calls.

Note 3: Low Heat ESP is a result of High Heat ESP (- is decrease in rise).

Note 4: High and low heat rise values are approximate air temperature change from return air temperature when at factory default settings.

Table 2	Airflow	
DIP Switch (OFF = 0 / ON = 1)	Continuous Fan @ 0.10 in wc (25 Pa) ESP	
1 & 2	CFM	L/s
*00	1007	475
01	1742	822
10	2204	1040
11	2204	1040

Table 3	SW2 DIP Assignments
DIP Switch	Blower Parameter
1 & 2	Cont Fan Adj
3 & 4	Heat Speed Adj
5 & 6	Cool Speed Adj
7 & 8	Cool On/Off Delay

* Factory Setting

Table 4	Cooling Delay Options (SW2 - 7, 8)			
	ON DELAY		OFF DELAY	
DIP SW2 - 7/8 (OFF = 0 / ON = 1)	Timed ON (sec)	Airflow during on delay	Timer OFF (sec)	Airflow during off delay
*00	5	OFF	90	100%
01	5	OFF	0	OFF
10	30	50%	30	100%
11	30	50%	180	50%

Airflow % is of High Cool airflow demand determined from SW2-5/6 Table 1

Airflow resumes to 100% after on delay time is completed

Airflow stops (or switches to continuous fan speed) after off delay time is completed

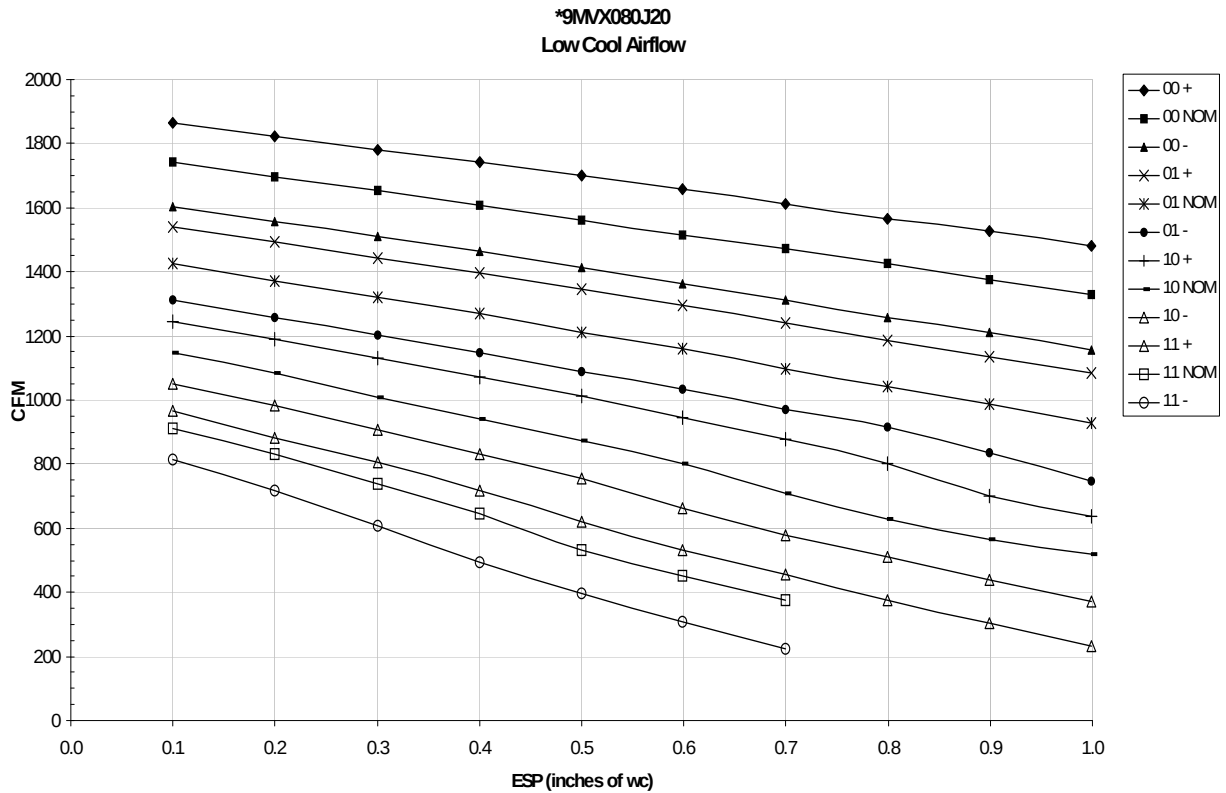
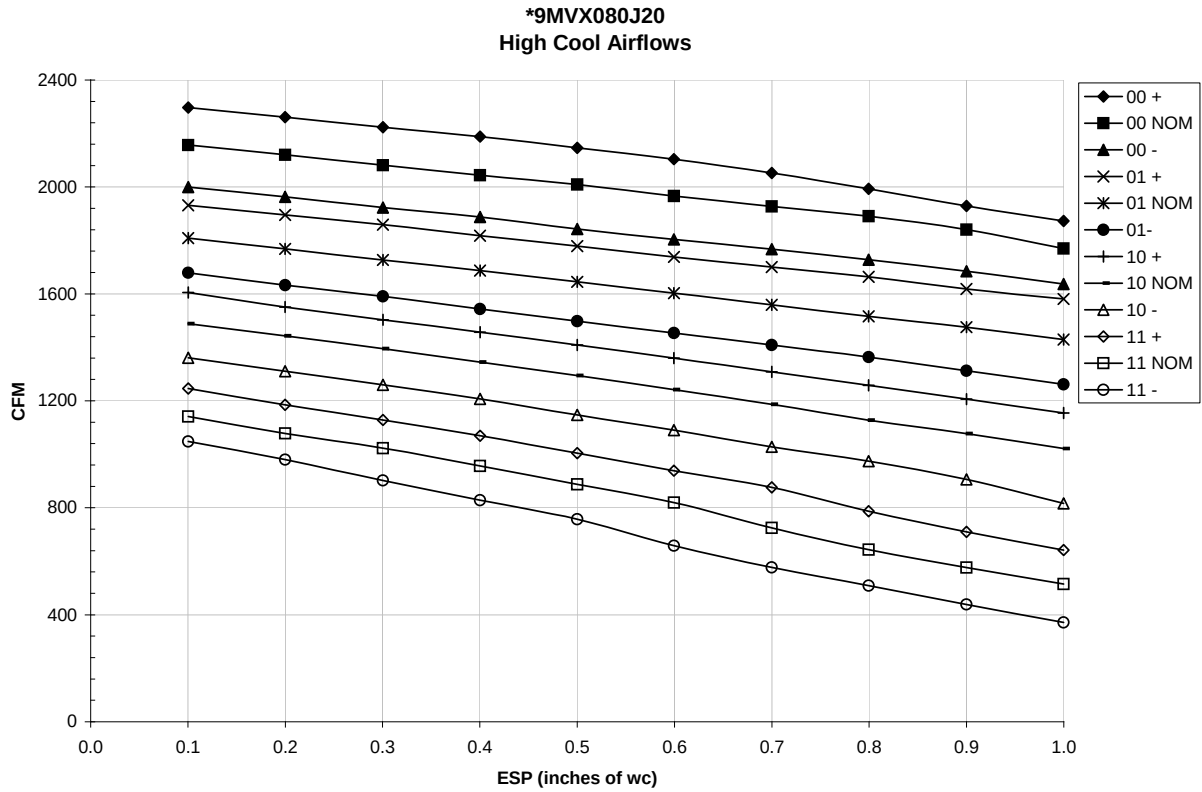
* Factory Setting

MAX CFM (L/s) for Factory Washable Fil- ters		
Filter Size (in/mm)	CFM	L/s
14" X 25" (356 x 635)	1400	661
16" X 25" (406 x 635)	1600	755
20" X 25" (508 x 635)	2000	944
24" X 25" (610 x 635)	2500	1180
Max CFM (L/s) based on 600 FPM (3.0 m/s)		

NOTE: Disposable filters are typically rated at 300 FPM (1.5 m/s). These filters only allow half the airflow when compared to 600 FPM (3.0 m/s) filters.

Circulation Air Blower Data - *9MVX080

Cooling Airflow Settings



NOTE: OFF = 0 and ON = 1

Circulation Air Blower Data - *9MVX100

Cooling Adjustment						Heating Rise Adjustment		
DIP Switch (OFF = 0 ON = 1)	High Cool @ .50 in wc(125 Pa)		Low Cool (80% of High Cool)		** Adjust Jumper Setting	DIP Switch (OFF = 0 ON = 1)	High Heat Rise Change @ 0.20 in wc (50 Pa)	Low Heat Rise Change at Resultant Static
5 & 6	CFM	L/s	CFM	L/s		3 & 4		
00	2108	995	1686	995	+	00	-3	-3
*00	1974	932	1579	932	*NOM	*00	0	0
00	1812	855	1450	855	-	00	4	5
01	1712	808	1370	808	+	01	1	1
01	1587	749	1270	749	NOM	01	4	5
01	1422	671	1138	671	-	01	9	10
10	1312	619	1050	619	+	10	-2	-1
10	1197	565	958	565	NOM	10	1	2
10	1056	498	845	498	-	10	5	7
11	919	434	735	434	+	11	-5	-6
11	797	376	638	376	NOM	11	-3	-3
11	641	303	513	303	-	11	2	2

Airflow performance includes 1" washable filter media.

*Factory Setting

**Adjust Jumper Setting (+, NOM, -) is applied to both Cooling and Heating

Note 1: HP Mode Jumper provides a 10% reduction in airflow when in Comfort position and a call for low or high cooling is present with the "O" line off. This feature is to provide lower airflow for running in HP Heating Mode if desirable.

Note 2: DEHUM mode (24VAC on DEHUM terminal) provides a 20% airflow reduction during cooling calls.

Note 3: Low Heat ESP is a result of High Heat ESP (- is decrease in rise).

Note 4: High and low heat rise values are approximate air temperature change from return air temperature when at factory default settings.

Table 2	Airflow	
DIP Switch (OFF = 0 / ON = 1)	Continuous Fan @ 0.10 in wc (25 Pa) ESP	
1 & 2	CFM	L/s
*00	1032	487
01	1778	839
10	2178	1028
11	2178	1028

Table 3	SW2 DIP Assignments
DIP Switch	Blower Parameter
1 & 2	Cont Fan Adj
3 & 4	Heat Speed Adj
5 & 6	Cool Speed Adj
7 & 8	Cool On/Off Delay

* Factory Setting

Table 4	Cooling Delay Options (SW2 - 7, 8)			
	ON DELAY		OFF DELAY	
DIP SW2 - 7/8 (OFF = 0 / ON = 1)	Timed ON (sec)	Airflow during on delay	Timer OFF (sec)	Airflow during off delay
*00	5	OFF	90	100%
01	5	OFF	0	OFF
10	30	50%	30	100%
11	30	50%	180	50%

Airflow % is of High Cool airflow demand determined from SW2-5/6 Table 1

Airflow resumes to 100% after on delay time is completed

Airflow stops (or switches to continuous fan speed) after off delay time is completed

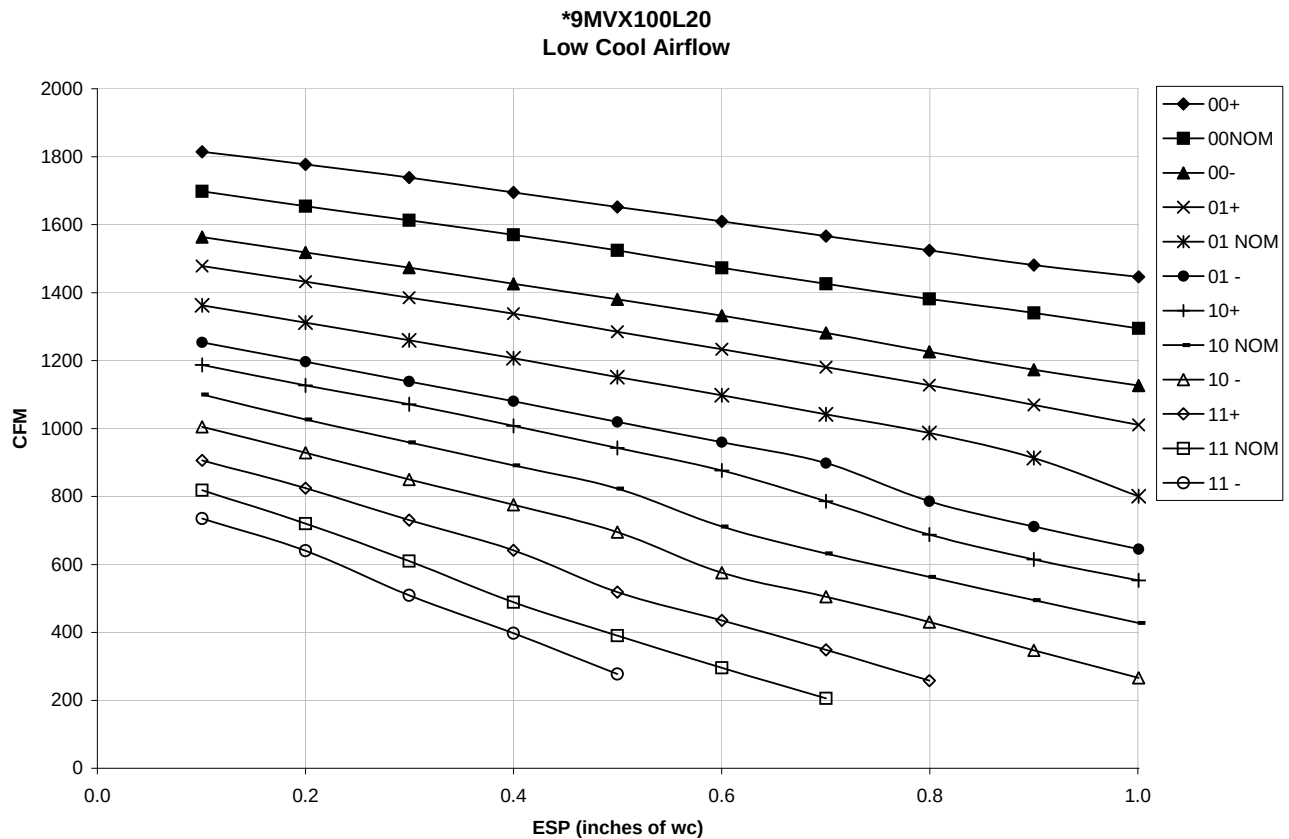
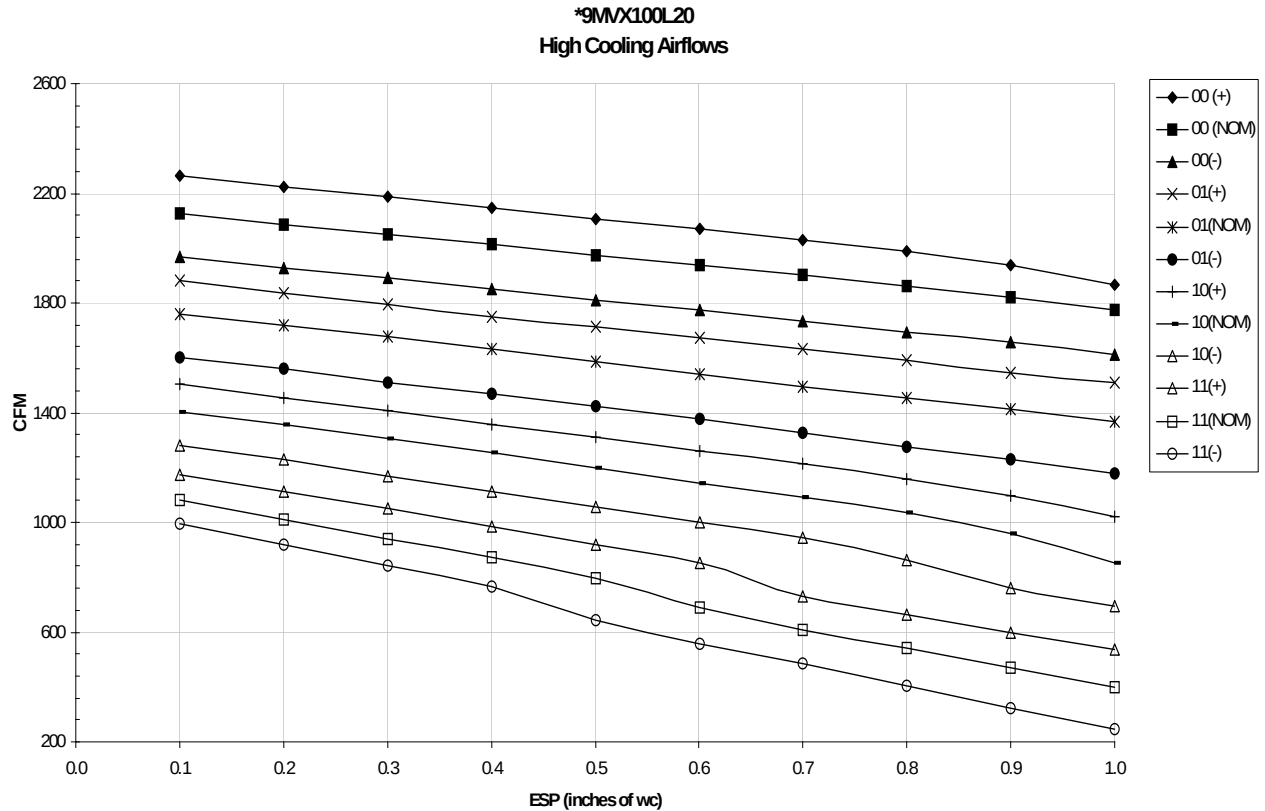
* Factory Setting

MAX CFM (L/s) for Factory Washable Fil- ters		
Filter Size (in/mm)	CFM	L/s
14" X 25" (356 x 635)	1400	661
16" X 25" (406 x 635)	1600	755
20" X 25" (508 x 635)	2000	944
24" X 25" (610 x 635)	2500	1180
Max CFM (L/s) based on 600 FPM (3.0 m/s)		

NOTE: Disposable filters are typically rated at 300 FPM (1.5 m/s). These filters only allow half the airflow when compared to 600 FPM (3.0 m/s) filters.

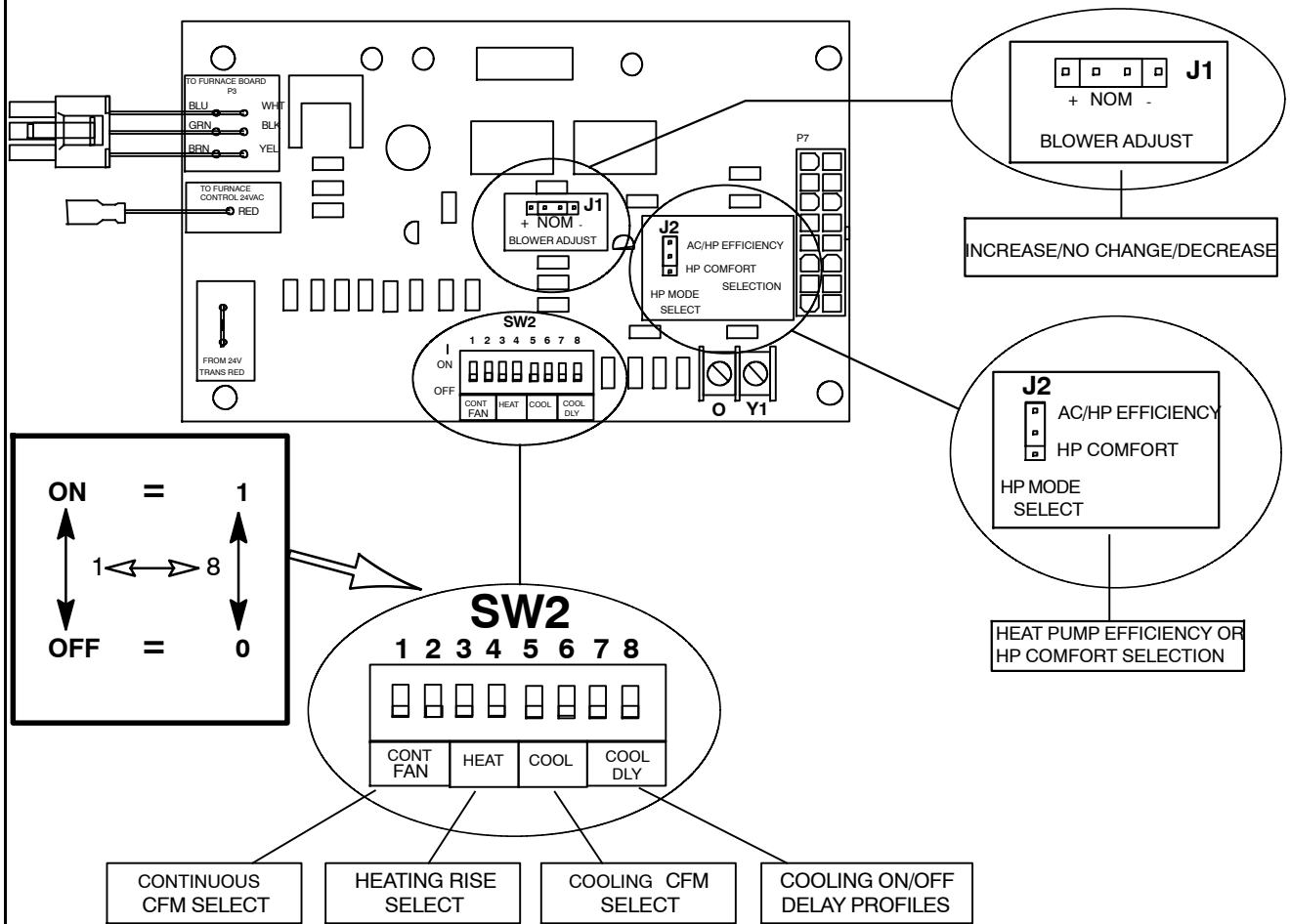
Circulation Air Blower Data - *9MVX100

Cooling Airflow Settings



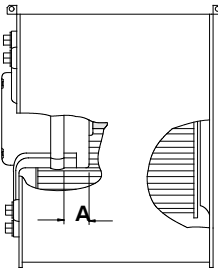
NOTE: OFF = 0 and ON = 1

Variable Speed (9MPV & 9MVX) Tap Select Interface Board (TSIB)



25-25-54

Bellyband Location on Motor - A Dimension

Model *9MPT	inches	mm		Model *9MPV	Model *9MPX	inches	mm
050F12	2 ¹ / ₈	53.1		050F12	040F12	1 ³ / ₈	34.9
075F14	1 ⁷ / ₈	46		075F12	060F12	2 ⁷ / ₈	73
100J16	1 ⁷ / ₈	46		100J20	080J20	2 ⁷ / ₈	73
125L20	1 ⁵ / ₈	41.9		125L20	100L20	2 ⁷ / ₈	73

24 Specifications are subject to change without notice. 440 04 2

INDUCED-COMBUSTION GAS FURNACE

PARTS REPLACEMENT INFORMATION GUIDE

CASING GROUP

Blower door
Front door
Door filler plate
Top panel gasket
Blower partition

INDUCER GROUP

Gasket inducer motor
Pressure switch(es)
Inducer assembly

BLOWER GROUP

Blower assembly
Blower hanger
Blower housing
Blower cutoff panel
Blower motor
Blower wheel
Capacitor
Capacitor strap

FILTER GROUP

Filter(s)

HEAT EXCHANGER GROUP

Primary heat exchanger cell
Primary heat exchanger partition
Secondary heat exchanger assembly
Transition assembly
Plate gasket

ELECTRICAL GROUP

Control box
Junction box
Limit switch(es)
Control board
Door switch
Transformer
Wiring harness
5-amp fuse

GAS CONTROL GROUP

Manifold
Burner
Orifice
Flame sensor
Hot surface ignitor
Gas valve

⚠ WARNING

FIRE, EXPLOSION, ELECTRICAL SHOCK AND CARBON MONOXIDE POISONING HAZARD

Failure to follow this warning could result in dangerous operation, personal injury, death or property damage.

Improper installation, adjustment, alteration, service, maintenance, or use can cause carbon monoxide poisoning, explosion, fire, electrical shock, or other conditions which may cause personal injury or property damage. Consult a qualified installer, service agency, local gas supplier, or your distributor or branch for information or assistance. The qualified installer or agency must use only factory-authorized and listed kits or accessories when modifying this product.

PRODUCT NOMENCLATURE

Brand Identifier * = Brand (C, H, T)	9	MP	X	040	F	12	A	# Engineering Rev. Denotes minor changes
Model Efficiency 8 = Non-Condensing, 80+% Gas Furnace 9 = Condensing, 90+% Gas Furnace								Marketing Digit Denotes major change
Installation Configuration DN = Downflow UH = Upflow/Horizontal MP = Multiposition, Up/Down/Horizontal MV = Multiposition, Variable Speed, Up/Down/Horizontal								Cooling Airflow 08 = 800 CFM 12 = 1200 CFM 14 = 1400 CFM 16 = 1600 CFM 20 = 2000 CFM
Major Design Feature 1 = One (Single) Pipe 2 = Two Pipe D = 1 or 2 Pipe L = Low NOx X = High Efficiency		N = Single Stage P = PVC Vent T = Two Stage V = Variable Speed						Cabinet Width B = 15.5" Wide F = 19.1" Wide J = 22.8" Wide L = 24.5" Wide
								Input (Nominal MBTUH)

Have available the product/model number and the serial number located on the unit rating plate to ensure correct replacement parts.

TO OBTAIN INFORMATION ON PARTS: Consult your installing dealer or the classified section of your local telephone directory under the "Heating Equipment" or "Air Conditioning Contractors and Systems" headings for dealer listing by brand name, or contact:

International Comfort Products, LLC
Consumer Relations Department
P.O. Box 128
Lewisburg, TN 37091, USA
931-270-4100