

## Single Stage Furnace Multiposition

### FLEXIBILITY

- Dual certified venting (1 or 2 pipes) Direct Vent furnace
- 40"(1016mm) high with wider cabinets, for ease of installation
- Factory shipped for natural gas, with Propane Gas conversion kits available
- Four position – upflow/downflow/horizontal installation
- Vent pipe can be run horizontally or vertically
- Internal condensate drain system

### SERVICE

- Self diagnostics
- Entire blower assembly mounted on rails

### COMFORT

- Adjustable timed blower Off delay
- Thermal lined, one piece steel cabinet for noise reduction
- 24 and 115 VAC humidifier terminal
- Electronic air cleaner terminal
- Insulated blower compartment

### EFFICIENCY

- 92.1% AFUE efficiency range
- Single stage gas valve operation
- Single stage integrated control
- Multispeed, prelubricated PSC blower motors
- Induced draft blower
- In-shot burners
- California NOx approved

### QUALITY

- RPJ III Stainless steel heat exchanger
- Stainless steel secondary heat exchanger
- High temperature limit control prevents overheating
- Direct ignition with Silicon Nitride ignitor
- Flame roll-out sensors standard
- Solid doors

### WARRANTY \*

- 5 year No Hassle Replacement™ limited warranty
- Lifetime heat exchanger limited warranty with timely registration
- 5 year parts limited warranty
  - With timely registration, an additional 5 year parts limited warranty

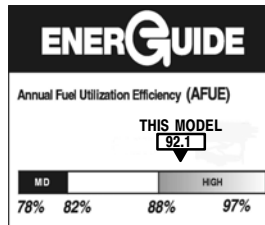
\* Applies to original purchaser/homeowner, some limitations may apply. See warranty certificate for complete details.



Illustrations and photographs are only representative. Some product models may vary.

**⚠ WARNING**

This furnace is not designed for use in mobile homes, trailers, or recreational vehicles. Such use could result in property damage and/or death.



As an Energy Star® Partner, International Comfort Products has determined that this product meets the ENERGY STAR® guidelines for energy efficiency. Ask your contractor for details or visit [www.energystar.gov](http://www.energystar.gov)



UPFLOW/DOWNFLOW/HORIZONTAL (NATURAL GAS)							
Model Number	Dimensions H x W x D		Input (MBTUH)	Efficiency AFUE	Cooling Capacity @ .5 in wc (125 Pa)	ShippingWt.	
	Inches	Millimeters				Lbs	Kg
T9MPD050F12C	40 x 19 <sup>1</sup> / <sub>8</sub> x 29	1016 x 486 x 737	50	92.1	1.5 – 3.0 TON	150	68
T9MPD075F12C	40 x 19 <sup>1</sup> / <sub>8</sub> x 29	1016 x 486 x 737	75	92.1	1.5 – 3.0 TON	153	69
T9MPD080J16C	40 x 22 <sup>3</sup> / <sub>4</sub> x 29	1016 x 578 x 737	80	92.1	2.5 – 4.0 TON	172	78
T9MPD100J14C	40 x 22 <sup>3</sup> / <sub>4</sub> x 29	1016 x 578 x 737	100	92.1	2.0 – 3.5 TON	172	78
T9MPD100J20C	40 x 22 <sup>3</sup> / <sub>4</sub> x 29	1016 x 578 x 737	100	92.1	3.5 – 5.0 TON	180	82
T9MPD125L20C	40 x 24 <sup>1</sup> / <sub>2</sub> x 29	1016 x 622 x 737	125	92.1	3.5 – 5.0 TON	193	88

## FURNACE SPECIFICATIONS

Model Number	NATURAL GAS	*9MPD050F12	*9MPD075F12	*9MPD080J16	*9MPD100J14	*9MPD100J20	*9MPD125L20
INPUT (btuh)		50,000	75,000	80,000	100,000	100,000	125,000
HTG. CAP. (btuh)		45,500	67,500	72,000	90,000	90,000	113,125
AFUE % (ICS)		92.1					
ALTERNATE INPUT BTUH		40,000	60,000	NA	80,000	80,000	100,00
ALTERNATE OUTPUT BTUH		36,400	54,000	NA	72,000	72,000	90,500
NOx (Ng/J)		<40					
TEMP. RISE DEGREES (°F/°C)		35-65/19-46	40-70/22-39	35-65/19-46	40-70/22-39	40-70/22-39	40-70/22-39
VOLTS/HZ/PH		115/1/60					
MIN./MAX. VOLTAGE		104/127					
RATING PLATE AMPS.		12.9	10.1	12.9	10.1	14.4	15.0
TRANSFORMER (V.A.)		40					
GAS PIPE SIZE in(mm)		1/2 (12.7)					
VENT SIZE in(mm) ^		2 or 3 (50.8 or 76.2) OD			3 (76.2) OD		
COOLING CAP.		3.0	3.0	4.0	3.5	5.0	5.0
HIGH ALTITUDE PRESSURE SWITCH		1013803	1013803	1013813	1013803	1013803	1013157
FILTER SIZE - in(mm) (qty)		16 x 25 x 1 (406 x 635 x 25) (1)				16 x 25 x 1 (2) (406 x 635 x 25) (2)	
DIMENSIONS H x W x D - in(mm)		40 x 19 <sup>1</sup> / <sub>8</sub> x 29 (1016 x 486 x 737)		40 x 22 <sup>3</sup> / <sub>4</sub> x 29 (1016 x 578 x 737)			40 x 24 <sup>1</sup> / <sub>2</sub> x 29 (1016x622x737)
WEIGHT Lbs (Kg)		150 (68)	153 (69)	172 (78)	172 (78)	180 (82)	193 (88)

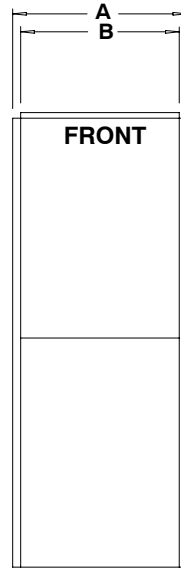
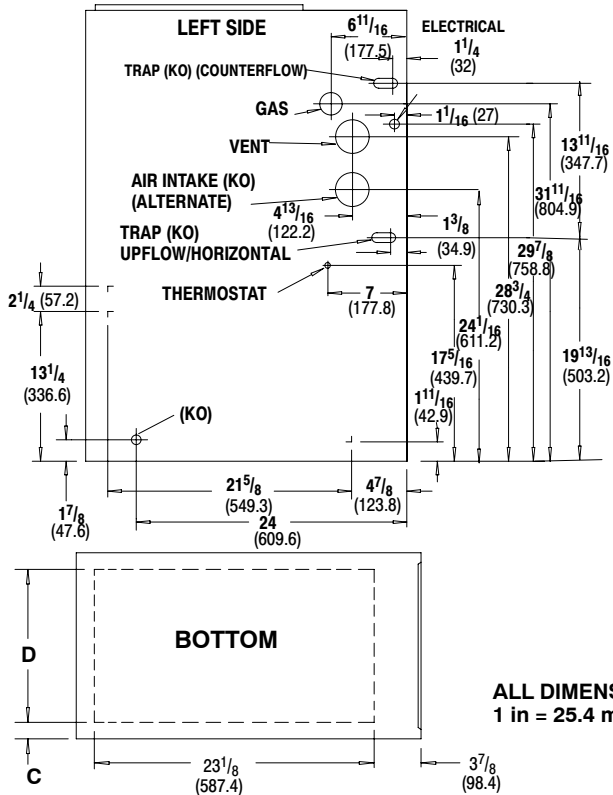
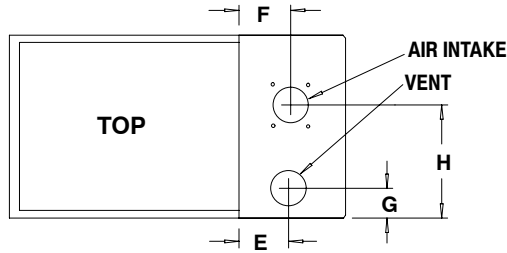
^ Vent size may vary depending on length, number of elbows, standard vent or direct vent. See Installation Instructions.

\* Denotes Brand (C, H, T)

## MODEL NUMBER IDENTIFICATION GUIDE

<p><b>Brand Identifier</b> * = Brand Specific</p> <p><b>Model Efficiency</b> 8 = Non-Condensing, 80+% Gas Furnace 9 = Condensing, 90+% Gas Furnace</p> <p><b>Installation Configuration</b> UP = Upflow    DN = Downflow    UH = Upflow/Horizontal HZ = Horizontal    DH = Downflow/Horizontal MP = Multiposition, Up/Down/Horizontal</p> <p><b>Major Design Feature</b> 1 = One (Single) Pipe    N = Single Stage 2 = Two Pipe    P = PVC Vent D = 1 or 2 Pipe    T = Two Stage L = Low NOx    V = Variable Speed X = Extra Efficiency</p>	<p><b>*</b></p> <p><b>9</b></p>	<p><b>M P</b></p>	<p><b>D</b></p>	<p><b>0 7 5</b></p>	<p><b>F</b></p>	<p><b>1 2</b></p>	<p><b>C</b></p>	<p><b>#</b></p>	<p><b>Engineering Rev.</b> Denotes minor change</p> <p><b>Marketing Digit</b> Denotes major change</p> <p><b>Cooling Airflow</b> 08 = 800 CFM 12 = 1200 CFM 14 = 1400 CFM 16 = 1600 CFM 20 = 2000 CFM</p> <p><b>Cabinet Width</b> B = 15.5" Wide    J = 22.8" Wide F = 19.1" Wide    L = 24.5" Wide</p> <p><b>Input</b> (Nominal MBTUH)</p>
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# DIMENSIONS



MINIMUM CLEARANCES TO COMBUSTIBLE MATERIALS FOR ALL UNITS	
REAR	0
FRONT (combustion air openings in furnace and in structure)	3" (76.2)
Required For Service	*24" (609.6)
ALL SIDES OF SUPPLY PLENUM	1" (25.4)
SIDES	0
VENT	0
TOP OF FURNACE	1" (25.4)

\*30" (762mm) clearance recommended for furnace removal.

Horizontal position: Line contact is permissible only between lines formed by intersections of top and two sides of furnace jacket, and building joists, studs or framing.

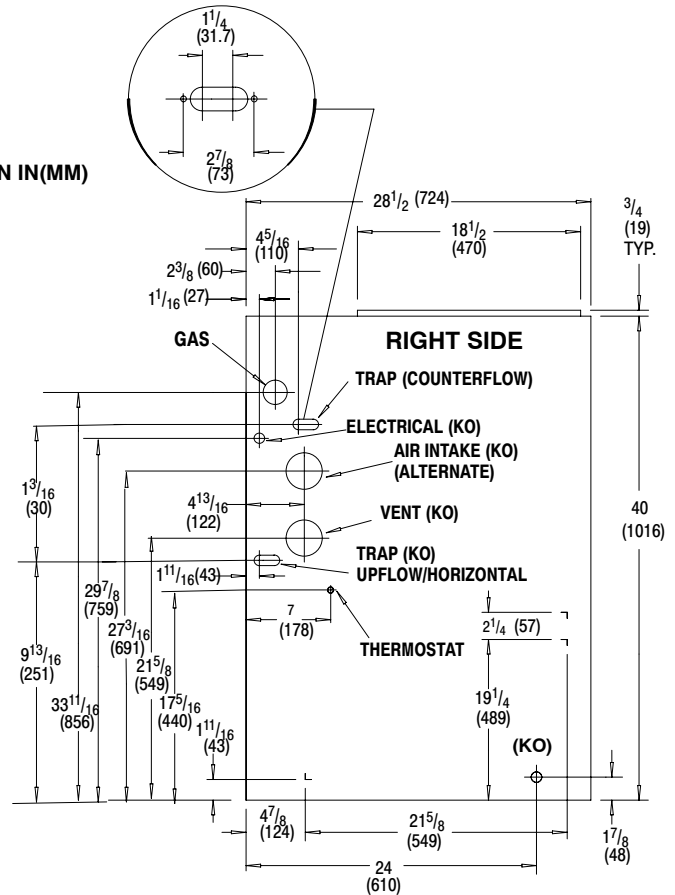
**NOTE:** Evaporator "A" coil drain pan dimensions may vary from furnace duct opening size. Always consult evaporator specifications for duct size requirements.

Furnace is designed for bottom return or side return.

Return air through back of furnace is NOT allowed.

ALL DIMENSIONS IN IN.(MM)  
1 in = 25.4 mm

Unit Capacity	Cabinet		Bottom		Top			
	A	B	C	D	E	F	G	H
*9MPD050F12	19 1/8 (486)	17 5/8 (448)	2 1/8 (54)	14 3/4 (375)	4 3/8 (111)	4 1/2 (114)	2 1/2 (64)	9 1/2 (241)
*9MPD075F12	19 1/8 (486)	17 5/8 (448)	2 1/8 (54)	14 3/4 (375)	4 3/8 (111)	4 1/2 (114)	2 1/2 (64)	9 1/2 (241)
*9MPD080J16	22 3/4 (578)	21 1/4 (540)	1 5/16 (49)	18 3/4 (476)	4 3/8 (111)	4 1/2 (114)	2 5/8 (67)	11 3/8 (289)
*9MPD100J14	22 3/4 (578)	21 1/4 (540)	1 5/16 (49)	18 3/4 (476)	4 3/8 (111)	4 1/2 (114)	2 5/8 (67)	11 3/8 (289)
*9MPD100J20	22 3/4 (578)	21 1/4 (540)	1 5/16 (49)	18 3/4 (476)	4 3/8 (111)	4 1/2 (114)	2 5/8 (67)	11 3/8 (289)
*9MPD125L20	24 1/2 (622)	23 (584)	7/16 (11)	23 (584)	4 3/8 (111)	4 1/2 (114)	2 1/4 (57)	12 1/4 (311)



KO = KnockOut

Drawing is representative, but some models may vary

## BLOWER PERFORMANCE

Model Number	NATURAL GAS	*9MPD050F12 (1)(5)	*9MPD075F12 (1)(5)	*9MPD080J16 (1)(5)	*9MPD100J14 (1)(5)	*9MPD100J20 (2)(3)(5)	*9MPD125L20 (2)(5)
BLOWER SIZE DIA. x WIDTH - 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)
MOTOR H.P. (TYPE)		1/2 PSC	1/2 PSC	1/2 PSC	1/2 PSC	3/4 PSC	3/4 PSC
MOTOR SPEEDS		4	4	4	4	4	4

## AIRFLOW DATA

\*9MPD050F12 (1)(5) \* Denotes Brand

External Static Pressure (in wc/Pa)	Speed Tap		Low		Med L		Med H		Hi	
	in wc	Pa	CFM	L/s	CFM	L/s	CFM	L/s	CFM	L/s
	0.10	25	826	390	1083	511	1301	614	1408	664
0.20	50	804	379	1050	496	1242	586	1347	636	
0.30	75	770	363	1028	485	1195	564	1295	611	
0.40	100	735	347	985	465	1153	544	1237	584	
0.50	125	698	329	952	449	1093	516	1183	558	
0.60	149	657	310	909	429	1040	491	1118	528	
0.70	174	---	---	863	407	935	441	1053	497	
0.80	199	---	---	812	383	865	408	976	461	
0.90	224	---	---	---	---	802	378	887	419	
1.00	249	---	---	---	---	720	340	787	371	

\*9MPD100J14 (1)(5) \* Denotes Brand

External Static Pressure (in wc/Pa)	Speed Tap		Low		Med L		Med H		Hi	
	in wc	Pa	CFM	L/s	CFM	L/s	CFM	L/s	CFM	L/s
	0.10	25	700	330	912	430	1209	571	1550	731
0.20	50	660	311	884	417	1171	553	1492	704	
0.30	75	616	291	843	398	1139	538	1434	677	
0.40	100	575	271	790	373	1088	513	1378	650	
0.50	125	528	249	735	347	1040	491	1317	622	
0.60	149	472	223	677	319	979	462	1247	588	
0.70	174	---	---	608	287	909	429	1161	548	
0.80	199	---	---	528	249	827	390	1058	499	
0.90	224	---	---	---	---	733	346	932	440	
1.00	249	---	---	---	---	624	294	778	367	

\*9MPD075F12 (1)(5) \* Denotes Brand

External Static Pressure (in wc/Pa)	Speed Tap		Low		Med L		Med H		Hi	
	in wc	Pa	CFM	L/s	CFM	L/s	CFM	L/s	CFM	L/s
	0.10	25	706	333	917	433	1163	549	1368	646
0.20	50	677	319	875	413	1120	529	1319	622	
0.30	75	636	300	840	396	1076	508	1263	596	
0.40	100	595	281	812	383	1031	487	1202	567	
0.50	125	546	258	766	361	987	466	1148	542	
0.60	149	490	231	702	331	889	420	1077	508	
0.70	174	---	---	630	297	821	387	989	467	
0.80	199	---	---	550	260	750	354	914	431	
0.90	224	---	---	462	218	676	319	833	393	
1.00	249	---	---	---	---	601	284	747	353	

\*9MPD100J20 \* Denotes Brand (1)(5)

External Static Pressure (in wc/Pa)	Speed Tap		Low		Med L		Med H		Hi	
	in wc	Pa	CFM	L/s	CFM	L/s	CFM	L/s	CFM	L/s
	0.10	25	1682	794	1870	882	2081	982	2263	1068
0.20	50	1654	781	1826	862	2031	958	2193	1035	
0.30	75	1597	754	1775	838	1963	926	2165	1022	
0.40	100	1547	730	1719	811	1899	896	2056	970	
0.50	125	1498	707	1653	780	1825	861	1978	933	
0.60	149	1428	674	1583	747	1737	820	1854	875	
0.70	174	1355	639	1503	709	1650	779	1757	829	
0.80	199	1267	598	1392	657	1548	731	1644	776	
0.90	224	---	---	1266	597	1428	674	1515	715	
1.00	249	---	---	---	---	---	---	1351	638	

\*9MPD080J16 (1)(5) \* Denote Brand

External Static Pressure (in wc/Pa)	Speed Tap		Low		Med L		Med H		Hi	
	in wc	Pa	CFM	L/s	CFM	L/s	CFM	L/s	CFM	L/s
	0.10	25	823	388	1109	523	1527	721	1850	873
0.20	50	795	375	1087	513	1482	699	1791	845	
0.30	75	747	353	1056	498	1426	673	1720	812	
0.40	100	677	319	1016	479	1382	652	1648	778	
0.50	125	617	291	970	458	1317	622	1575	743	
0.60	149	544	257	854	403	1245	588	1485	701	
0.70	174	---	---	763	360	1154	545	1401	661	
0.80	199	---	---	652	308	1043	492	1284	606	
0.90	224	---	---	---	---	905	427	1161	548	
1.00	249	---	---	---	---	737	348	1028	485	

- NOTE:
- (1) Data Based on Bottom Only or One Side return.
  - (2) Data Based on Both Sides or Bottom plus One Side.
  - (3) 100J20 Reduce airflow by 5% if Bottom Only return.
  - (4) 125J20 Reduce airflow by 5% if Bottom Only return.
  - (5) Gray area is above maximum temperature rise range.

# CFM – Cubic Feet Per Minute airflow. Filter required for each return–air inlet.  
Airflow performance includes 1" washable [600 FPM (3.0 M/s) max] filter media.

MAX CFM'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 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.  
EXAMPLE (approx.):  
20in X 25in @ 600 FPM = 2000 CFM, @ 300 FPM = 1000 CFM  
508mm x 635mm @ 3.0 M/s = 944 L/s, @ 1.5 M/s = 472 L/s

## ACCESSORIES

Model Number	Description	Used With Models
NAHA004WK	Twining Kit – Allows operation of two identical-size model furnaces.	All *9MPD Furnaces
NAHA001LP (1172958**)	Gas Conversion Kits – Natural gas to Propane conversion Kit. Allows field conversion to Propane gas.	*9MPD050, 075, 100, 125
NAHA001NG (1172960**)	Gas Conversion Kits – Propane to natural gas conversion kit. Allows field conversion to natural gas.	*9MPD050, 075, 100, 125
NAHA003LP (1174906**)	Gas Conversion Kits – Natural gas to Propane conversion Kit. Allows field conversion to Propane gas for 80k BTUH and Alternate input models	*9MPD080 and Alternate Input Models
NAHA004NG (1174907**)	Gas Conversion Kits – Propane to natural gas conversion kit. Allows field conversion to natural gas for 80k BTUH and Alternate input models	*9MPD080 and Alternate Input Models
NAHA001AL	Alternate Input Kit (Nat Gas). Derates input by 20%	*9MPD050, 075, 100, 125
NAHA002AL	Alternate Input Kit (Propane Gas). Derates input by 20%	*9MPD050, 075, 100, 125
NAHA001FF	Filter Kits – External filter frame. 16" x 25" (406mm x 635mm)	Side Return (All Furnaces) Bottom Return (All "F" 19 <sup>1</sup> / <sub>8</sub> " Furnaces under 1600 CFM)
NAHA001FP	External filter frame. 16" x 25" (406mm x 635mm) Bulk Pack Kit – Qty 10	
NAHA002FF	Filter Kits – Bottom return filter frame kit 20" x 25" (508mm x 635mm)	(All "J" 22 <sup>3</sup> / <sub>4</sub> " Furnaces)
NAHA002FP	Bottom return filter frame kit 20" x 25" (508mm x 635mm) Bulk Pack Kit – Qty 10	
NAHA001TK	Duct Standoff Filter Kit. To adapt 20" x 25" (508mm x 635mm) filter for single side return.	Side Return (All single return applications with 1600 CFM or greater) Bottom Return (All "F" 19 <sup>1</sup> / <sub>8</sub> " Furnaces under 1600 CFM)
NAHA001NK (612833**)	Condensate neutralizer kit – for condensing gas furnaces	All *9MPD Furnaces If Required
NAHH002SB	Combustible Floor Subbase – Furnace ONLY: All 19 <sup>1</sup> / <sub>4</sub> " wide furnace models	*9MPD050/075
NAHH003SB	Combustible Floor Subbase – Furnace ONLY: All 22 <sup>3</sup> / <sub>4</sub> " wide furnace models	*9MPD080/100
NAHH010SB	Combustible Floor Subbase – Furnace ONLY: All 24 <sup>1</sup> / <sub>2</sub> " wide furnace models	*9MPD125
NAHH005SB	Subbase – Furnace w/19 <sup>1</sup> / <sub>4</sub> " cased coil	*9MPD050/075 Counterflow furnace w/19 <sup>1</sup> / <sub>4</sub> " cased coil
NAHH006SB	Subbase – Furnace w/22 <sup>3</sup> / <sub>4</sub> " cased coil	*9MPD080/100 Counterflow furnace w/22 <sup>3</sup> / <sub>4</sub> " cased coil
NAHH009SB	Subbase – Furnace w/24 <sup>1</sup> / <sub>2</sub> " cased coil	*9MPD125
NAHA001CV (1011129**)	3" (76.2mm) Concentric vent kit – allows single wall penetration for 2 pipe direct vent applications (90+). Conversion: 1ft = .305m	*9MPD050/075/080 (65' & (4) 90°elbows) *9MPD100 (35' or 65' & (4) 90°elbows) *9MPD125 (35' & (4) 90°elbows)
NAHA002CV	2" (50.8mm) Concentric vent kit allows – single wall penetration for 2 pipe direct vent applications (90+). Conversion: 1ft = .305m	*9MPD050/075/080 (65' & (4) 90°elbows)
NAHA001CA	Coil Adapter for Downflow Furnaces	All Downflow Models
1013803**	High Altitude Pressure Switch Kit (1 Pressure Switch)	*9MPD050F12, 075F12 & 100J14/J20
1013813**	High Altitude Pressure Switch Kit (1 Pressure Switch)	*9MPD080
1013157**	High Altitude Pressure Switch Kit (2 Pressure Switches)	*9MPD125
NAHA002LV	Long Vent Kit	*9MPD100J14/100J20
NAHA003LV	High Altitude Long Vent Kit	*9MPD100J14/100J20
NAHA002WL	To replace Warning Labels, Operating Instructions & Wiring Labels on Blower Door when needed	*9MPD

\*\* Must be ordered from Service Parts

\* Denotes Brand (C, H, T)