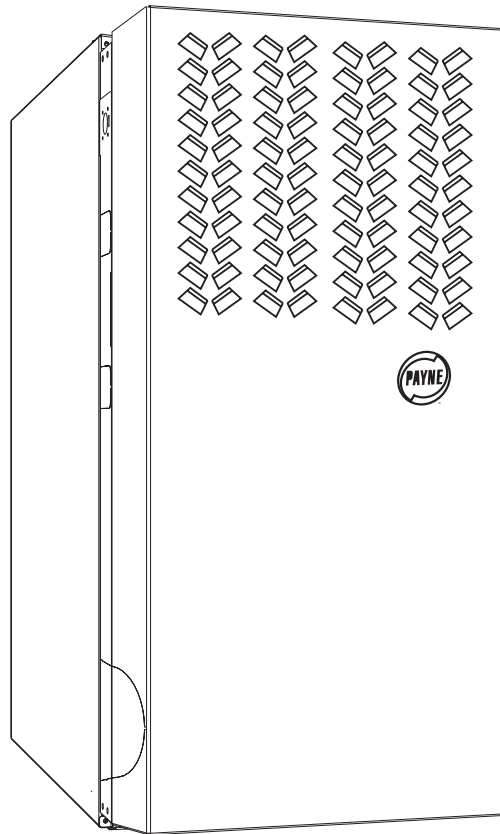




Heating & Cooling



Model PG8M/PG8J Series A

MULTIPOISE GAS FURNACE

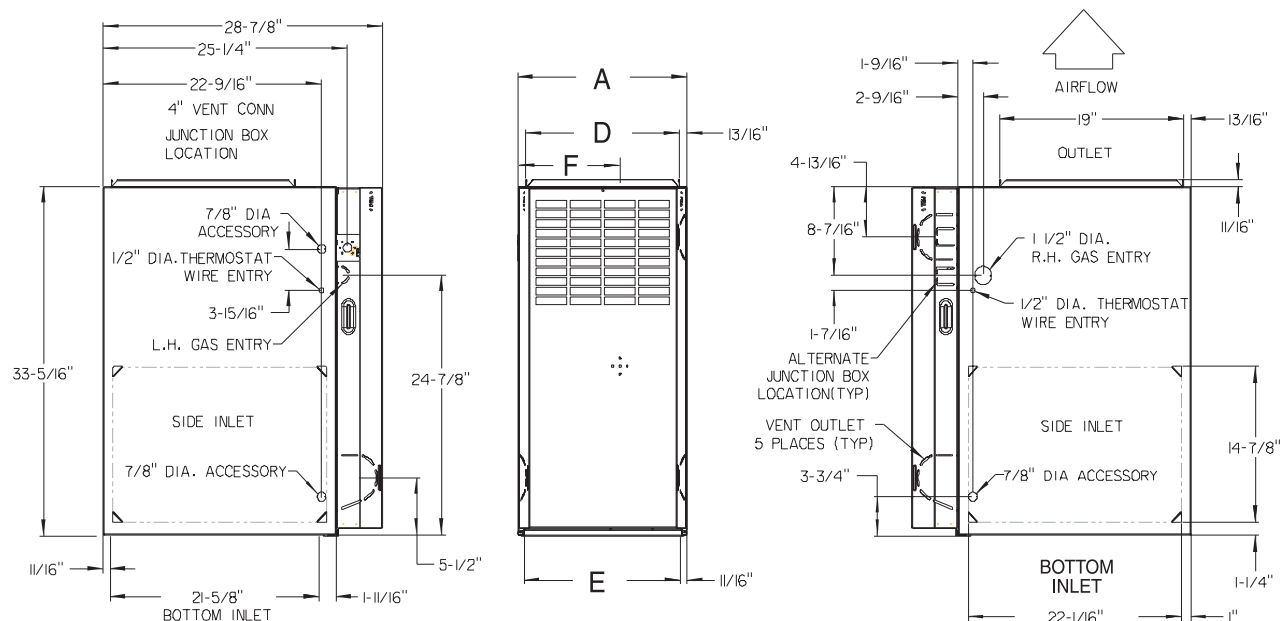
The Payne PG8MAA/JAA 80% AFUE Gas Furnaces feature 4-way multipoise design and through-the-furnace downflow venting. The PG8MAA/JAA furnaces are approved for use with natural or propane gas, and the PG8JAA is approved for use in Low NOx Air Quality Management Districts.

STANDARD FEATURES

- **Four-position furnace:** upflow, horizontal right, horizontal left, downflow
- **Electronic control center**
Adjustable heating air temperature rise, LED diagnostics and self test feature
- **Hot surface ignition (HSI)**

LIMITED WARRANTY

- 20-year warranty on heat exchanger
- 1-year parts warranty on all other components



A02021

- NOTES:
- Two additional $\frac{7}{8}$ -in. dia knockouts are located in the top plate.
 - Minimum return-air openings at furnace, based on metal duct. If flex duct is used, see flex duct manufacturer's recommendations for equivalent diameters.
 - Minimum return-air opening at furnace:
 - For 800 CFM-16-in. round or $14\frac{1}{2}$ x 12-in. rectangle.
 - For 1200 CFM-20-in. round or $14\frac{1}{2}$ x $19\frac{1}{2}$ -in. rectangle.
 - For 1600 CFM-22-in. round or $14\frac{1}{2}$ x $23\frac{1}{4}$ -in. rectangle.
 - For airflow requirements above 1800 CFM, see Air Delivery table in Product Data literature for specific use of single side inlets. The use of both side inlets, a combination of 1 side and the bottom, or the bottom only will ensure adequate return air openings for airflow requirements above 1800 CFM.

DIMENSIONS (In.)

UNIT SIZE	A (CABINET WIDTH)	D (SUPPLY WIDTH)	E (BOTTOM RETURN WIDTH)	F (TOP VENT OUTLET)	VENT CONNECTION SIZE (see notes 1 & 2)	SHIPPING WEIGHT
024045	14-3/16	12-9/16	12-11/16	9-5/16	4	104
036045	14-3/16	12-9/16	12-11/16	9-5/16	4	107
024070	14-3/16	12-9/16	12-11/16	9-5/16	4	111
036070	14-3/16	12-9/16	12-11/16	9-5/16	4	115
048070	17-1/2	15-7/8	16-1/8	11-9/16	4	126
042090	17-1/2	15-7/8	16-1/8	11-9/16	4	127
048090	21	19-3/8	19-1/2	13-5/16	4	140
060090	21	19-3/8	19-1/2	13-5/16	4	146
036110	17-1/2	15-7/8	16-1/8	11-9/16	4	135
048110	21	19-3/8	19-1/2	13-5/16	4	146
066110	21	19-3/8	19-1/2	13-5/16	4	152
048135	21	19-3/8	19-1/2	13-5/16	4 (note 1)	149
060135	24-1/2	22-7/8	23	15-1/16	4 (note 1)	163
060155	24-1/2	22-7/8	23	15-1/16	4 (note 1)	170

1) 135 and 155 size furnaces require five-inch vents. Use a 4-5 inch vent adapter between furnace and vent stack.

2) See Installation Instructions for complete installation requirements.

INSTALLATION

MINIMUM INCHES CLEARANCE TO COMBUSTIBLE CONSTRUCTION DISTANCE MINIMALE EN POUCES AUX CONSTRUCTIONS COMBUSTIBLES

This forced air furnace is equipped for use with natural gas at altitudes 0-10,000 ft (0-3,050m).

An accessory kit, supplied by the manufacturer, shall be used to convert to propane gas use or may be required for some natural gas applications.

This furnace is for indoor installation in a building constructed on site.

This furnace may be installed on combustible flooring in alcove or closet at minimum clearance as indicated by the diagram from combustible material.

This furnace may be used with a Type B-1 Vent and may be vented in common with other gas-fired appliances.

Cette fournaise à air pulsé est équipée pour utilisation avec gaz naturel et altitudes comprises entre 0-3,050m (0-10,000 pi).

Utiliser une trousse de conversion, fournie par le fabricant, pour passer au gaz propane ou pour certaines installations au gaz naturel.

Cette fournaise est prévue pour être installée dans un bâtiment construit sur place.

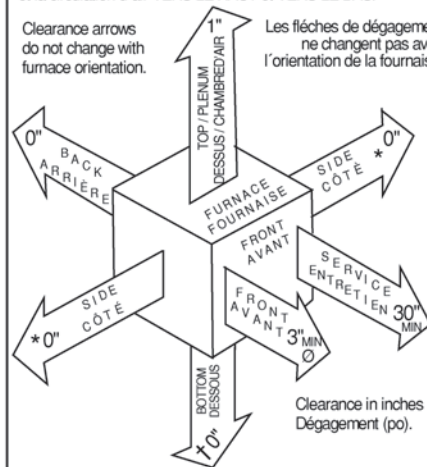
Cette fournaise peut être installée sur un plancher combustible dans une alcôve ou dans un garde-robe en respectant le minimum d'espace libre des matériaux combustibles, tel qu'indiqué sur le diagramme.

Cette fournaise peut être utilisée avec un conduit d'évacuation de Type B-1 ou connectée au conduit commun d'autres appareils à gaz.

This furnace is approved for UPFLOW, DOWNFLOW, and HORIZONTAL installations.
Cette fournaise est approuvée pour l'installation HORIZONTALE et la circulation d'air VERS LE HAUT et VERS LE BAS.

Clearance arrows do not change with furnace orientation.

Les flèches de dégagement ne changent pas avec l'orientation de la fournaise.



Clearance in inches
Dégagement (po).

Vent Clearance to combustibles:

For Single Wall vents 6 inches (6 po).

For Type B-1 vent type 1 inch (1 po).

Dégagement de l'évent avec combustibles:

Pour conduit d'évacuation à paroi simple 6 po (6 inches).

Pour conduit d'évacuation de Type B-1 1 po (1 inch).

MINIMUM INCHES CLEARANCE TO COMBUSTIBLE CONSTRUCTION

† DOWNFLOW POSITIONS:

Installation on non-combustible floors only.

For Installation on combustible flooring only when installed on special base, Part No. KGASB0201ALL,

Ø Coil Assembly, Part No. CD5 or CK5, or Coil Casing, Part No. KCAKC.

18 inches front clearance required for alcove.

★ Indicates supply or return sides when furnace is in the horizontal position. Line contact only permissible between lines formed by intersections of the Top and two Sides of the furnace jacket, and building joists, studs or framing.

DÉGAGEMENT MINIMUM EN POUCES AVEC ÉLÉMENTS DE CONSTRUCTION COMBUSTIBLES

† POUR LA POSITION COURANT DESCENDANT:

Pour l'installation sur plancher non combustible seulement.

Pour l'installation sur un plancher combustible seulement quand on utilise la base spéciale, pièce n° KGASB0201ALL,

l'ensemble serpentin, pièce n° CD5 ou CK5, ou le carter de serpentin, pièce n° KCAKC.

Ø Dans une alcôve, on doit maintenir un dégagement à l'avant de 18 po (450 mm).

★ La position indiquée concerne le côté d'entrée ou de retour quand la fournaise est dans la position horizontale.

Le contact n'est permis qu'entre les lignes formées par les intersections du dessus et des deux côtés de la chemise de la fournaise et les solives, montant sous cadre de charpente.

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MEETS DOE RESIDENTIAL CONSERVATION SERVICES PROGRAM STANDARDS.

Before purchasing this appliance, read important energy cost and efficiency information available from your retailer.

SPECIFICATIONS

UNIT SIZE		024045	036045	024070	036070	042090	048090
RATINGS AND PERFORMANCE							
Input Btuh*	PG8JAA Upflow; all PG8MAA	44,000	44,000	66,000	66,000	88,000	88,000
Nonweatherized ICS	PG8JAA Downflow/Horizontal	42,000	42,000	63,000	63,000	84,000	84,000
Output Capacity (Btuh) †	PG8JAA Upflow; all PG8MAA	35,000	36,000	53,000	54,000	71,000	71,000
Nonweatherized ICS	PG8JAA Downflow/Horizontal	34,000	34,000	51,000	51,000	68,000	68,000
AFUE †		80.0	80.0	80.0	80.0	80.0	80.0
Certified Temperature Rise Range °F		30-60	20-50	40-70	30-60	40-70	30-60
Certified External Static Pressure	Heat/Cool	0.10/0.50	0.10/0.50	0.12/0.50	0.12/0.50	0.15/0.50	0.15/0.50
Airflow CFM ‡	Heating	920	1250	830	1195	1375	1505
	Cooling	845	1160	900	1200	1385	1720
ELECTRICAL							
Unit Volts-Hertz-Phase		115-60-1					
Operating Voltage Range Min-Max		104-127					
Maximum Unit Amps		5.6	7.0	5.0	6.7	8.1	9.8
Maximum Wire Length (Measured 1 Way in Ft)		47	39	52	40	34	28
Minimum Wire Size		14					
Maximum Fuse or Ckt Bkr Size (Amps)**		15					
Transformer (24v)		40va					
External Control	Heating	12va					
Power Available	Cooling	35va					
Air Conditioning Blower Relay		Standard					
CONTROLS							
Limit Control		SPST					
Heating Blower Control		Solid-State Time Operation					
Burners (Monoport)		2	2	3	3	4	4
Gas Connection Size		1/2-in. NPT					
GAS CONTROLS							
Gas Valve (Redundant)	Min Inlet Pressure (In. wc)	White Rodgers					
		4.5 (Natural Gas)					
	Max Inlet Pressure (In. wc)	13.6 (Natural Gas)					
Ignition Device		Hot Surface					
BLOWER DATA							
Direct-Drive Motor HP (PSC)		1/5	1/3	1/5	1/3	1/3	1/2
Motor Full Load Amps		2.9	5.2	2.9	5.2	5.2	7.9
RPM (Nominal)-Speeds		1075-3	1075-3	1075-3	1075-3	1075-3	1075-3
Blower Wheel Diameter x Width (In.)		10 x 6	10 x 6	10 x 6	10 x 6	10 x 8	10 x 10
FILTER ARRANGEMENT		External filter rack required					

* Gas input ratings are certified for elevations to 2000 ft. For elevations above 2000 ft, reduce ratings 4 percent for each 1000 ft above sea level. Refer to National Fuel Gas Code Table F4 or furnace Installation Instructions. In Canada, derate the unit 10 percent for elevations 2000 ft to 4500 ft above sea level.

** Time-delay type is recommended.

† Capacity in accordance with U.S. Government DOE test procedures.

‡ Airflow shown is for bottom only return-air supply. For air delivery above 1800 CFM, see Air Delivery table for other options. A filter is required for each return-air supply. An airflow reduction of up to 7% may occur when using the factory-specified 4-5/16-inch wide, high efficiency media filter.

ICS-Isolated Combustion System

N/A-Not Applicable

SPECIFICATIONS

UNIT SIZE		036110	048110	066110	048135	066135	060155
RATINGS AND PERFORMANCE							
Input Btuh* PG8JAA Upflow; all PG8MAA		110,000	110,000	110,000	132,000	132,000	154,000
Nonweatherized ICS PG8JAA Downflow/Horizontal		105,000	105,000	105,000	126,000	126,000	147,000
Output Capacity (Btuh) †PG8JAA Upflow; all PG8MAA		89,000	89,000	89,000	107,000	107,000	125,000
Nonweatherized ICS PG8JAA Downflow/Horizontal		85,000	85,000	85,000	102,000	107,000	119,000
AFUE †		80.0	80.0	80.0	80.0	80.0	80.0
Certified Temperature Rise Range °F		50-80	40-70	30-60	50-80	40-70	40-75
Certified External Static Pressure	Heat/Cool	0.20/0.50	0.20/0.50	0.20/0.80	0.20/0.50	0.20/0.50	0.20/0.50
Airflow CFM ‡	Heating	1335	1515	1900	1525	1850	1790
	Cooling	1335	1680	2220	1710	2110	2230
ELECTRICAL							
Unit Volts-Hertz-Phase		115-60-1					
Operating Voltage Range	Min-Max	104-127					
Maximum Unit Amps		8.2	10.1	13.7	10.1	14.4	15.0
Maximum Wire Length (Measured 1 Way in Ft)		34	28	32	28	30	29
Minimum Wire Size		14		12	14	12	
Maximum Fuse or Ckt Bkr Size (Amps)**		15		20	15	20	
Transformer (24v)		40va					
External Control	Heating	12va					
Power Available	Cooling	35va					
Air Conditioning Blower Relay		Standard					
CONTROLS							
Limit Control		SPST					
Heating Blower Control		Solid-State Time Operation					
Burners (Monoport)		5	5	5	6	6	7
Gas Connection Size		1/2-in. NPT					
GAS CONTROLS							
Gas Valve (Redundant)	Min Inlet Pressure (In. wc)	White Rodgers					
	Max Inlet Pressure (In. wc)	4.5 (Natural Gas)					
Ignition Device		13.6 (Natural Gas)					
		Hot Surface					
BLOWER DATA							
Direct-Drive Motor HP (PSC)		1/3	1/2	3/4	1/2	3/4	3/4
Motor Full Load Amps		5.2	7.9	11.1	7.9	11.1	11.1
RPM (Nominal)-Speeds		1075-3	1075-3	1075-3	1075-3	1075-3	1075-3
Blower Wheel Diameter x Width (In.)		10 x 8	10 x 10	11 x 11	10 x 10	11 x 11	11 x 11
FILTER ARRANGEMENT		External filter rack required					

* Gas input ratings are certified for elevations to 2000 ft. For elevations above 2000 ft, reduce ratings 4 percent for each 1000 ft above sea level. Refer to National Fuel Gas Code Table F4 or furnace Installation Instructions. In Canada, derate the unit 10 percent for elevations 2000 ft to 4500 ft above sea level.

** Time-delay type is recommended.

† Capacity in accordance with U.S. Government DOE test procedures.

‡ Airflow shown is for bottom only return-air supply. For air delivery above 1800 CFM, see Air Delivery table for other options. A filter is required for each return-air supply. An airflow reduction of up to 7% may occur when using the factory-specified 4-5/16-inch wide, high efficiency media filter.

ICS-Isolated Combustion System

N/A-Not Applicable

FACTORY-AUTHORIZED DEALER-INSTALLED ACCESSORIES															
DESCRIPTION	PART NO.	024045	036045	024070	036070	048070	042090	048090	060090	036110	048110	066110	048135	066135	060155
Exterior Filter Rack - universal, one inch (adjustable from 14" to 24") with filter	KGAFR0301ALL KGAFR0306ALL (6-pack)	x	x	x	x	x	x	x	x	x	x	x	x	x	x
Unframed filter, one inch - 16x25	KGAWF1301UFR KGAWF1306UFR (6-pack)	x	x	x	x	x	x	S	S	x	S	S	S	S	S
Unframed filter, one inch - 20x25	KGAWF1401UFR KGAWF1406UFR (6 pack)							x	x		x	x	x		
Unframed filter, one inch - 24x25	KGAWF1501UFR KGAWF1506UFR (6 pack)													x	x
Twining Kit	KGATW0601HSI	x	x	x	x	x	x	x	x	x	x	x	x	x	x
Combustible Floor Base (not required when evaporator coil case is used)	KGASB0201ALL	x	x	x	x	x	x	x	x	x	x	x	x	x	x
Downflow Vent Guard (not required when vent is routed through cabinet)	KGAVG0101DFG	x	x	x	x	x	x	x	x	x	x	x	x	x	x
Vent Extension Kit (may be used when vent is routed through cabinet in downflow)	KGAVE0101DNH	x	x	x	x	x	x	x	x	x	x	x	x	x	x
Chimney Adapter Kit - 4 inch vent	KGACA02014FC	x	x	x	x	x	x	x	x	x	x	x			
Chimney Adapter Kit - 5 inch vent	KGACA02015FC												x	x	x
Natural-to-Propane Gas Conversion Kit (Single Kit) *	KGANP2901ALL	x	x	x	x	x	x	x	x	x	x	x	x	x	x
Propane-to-Natural Gas Conversion Kit (Single Kit)	KGAPN2301ALL	x	x	x	x	x	x	x	x	x	x	x	x	x	x
Gas Orifice Kit (Qty 50) Size 42	KGAHA0150N42	See Installation Instructions for model, altitude, and heat value usages.													
Gas Orifice Kit (Qty 50) Size 43	KGAHA0250N43														
Gas Orifice Kit (Qty 50) Size 44	KGAHA0350N44														
Gas Orifice Kit (Qty 50) Size 45	KGAHA0450N45														
Gas Orifice Kit (Qty 50) Size 46	KGAHA0550N46														
Gas Orifice Kit (Qty 50) Size 47	KGAHA1550N47														
Gas Orifice Kit (Qty 50) Size 48	KGAHA1650N48														
Gas Orifice Kit (Qty 50) Size 54	KGAHA0650P54														
Gas Orifice Kit (Qty 50) Size 55	KGAHA0750P55														
Gas Orifice Kit (Qty 50) Size 56	KGAHA0850P56														
Gas Orifice Kit (Qty 50) 1.25 mm	KGAHA5750125														
Gas Orifice Kit (Qty 50) 1.30 mm	KGAHA5750130														

* Factory-authorized and field installed. Gas conversion kits are A.G.A./C.G.A. recognized.

S 16x25 filters suitable for side return on all furnace sizes.

AIR DELIVERY-CFM (With Filters)*

UNIT SIZE	RETURN-AIR SUPPLY	SPEED	EXTERNAL STATIC PRESSURE (In. wc)									
			0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0
024045	Bottom or Side(s)	High	1085	1035	975	915	845	770	675	565	390	195
		Med-High	920	875	830	770	710	640	555	440	250	---
		Med-Low	820	775	730	680	620	555	470	360	190	---
036045	Bottom or Side(s)	High	1440	1375	1305	1240	1160	1070	975	870	730	560
		Med-High	1360	1300	1240	1175	1115	1040	950	850	725	575
		Med-Low	1250	1210	1160	1100	1040	965	885	790	670	520
024070	Bottom or Side(s)	High	1030	1010	980	945	900	845	775	680	490	335
		Med-High	835	815	790	760	720	675	610	490	375	265
		Med-Low	725	700	675	645	600	555	475	390	300	---
036070	Bottom or Side(s)	High	1425	1375	1320	1265	1200	1125	1035	940	830	655
		Med-High	1320	1280	1240	1205	1140	1075	995	905	790	620
		Med-Low	1200	1175	1145	1105	1050	990	920	840	725	555
042090	Bottom or Side(s)	High	1650	1600	1535	1465	1385	1285	1175	1055	895	645
		Med-High	1515	1485	1440	1380	1300	1220	1115	990	830	600
		Med-Low	1385	1360	1320	1260	1195	1120	1025	915	710	565
048090	Bottom or Side(s)	High	2060	1985	1915	1820	1720	1610	1490	1340	1135	925
		Med-High	1790	1765	1715	1645	1560	1470	1345	1195	1010	820
		Med-Low	1505	1505	1480	1440	1375	1300	1190	1045	890	740
036110	Bottom or Side(s)	High	1625	1575	1515	1445	1355	1260	1165	990	785	---
		Med-High	1510	1470	1415	1355	1285	1185	1070	890	725	---
		Med-Low	1360	1335	1295	1250	1180	1100	985	810	---	---
048110	Bottom or Side(s)	High	2035	1965	1880	1790	1680	1495	1365	1215	1075	875
		Med-High	1745	1710	1650	1560	1450	1340	1205	1090	955	750
		Med-Low	1530	1515	1470	1400	1310	1215	1095	990	830	670
066110	Bottom Only	High	2530	2470	2400	2320	2220	2115	2000	1865	1730	1590
		Med-High	2230	2205	2165	2110	2035	1950	1855	1740	1615	1485
		Med-Low	1920	1900	1880	1845	1795	1730	1650	1555	1460	1340
066110	Both Sides or 1 Side & Bottom	High	T.B.A.	T.B.A.	T.B.A.	T.B.A.	T.B.A.	T.B.A.	T.B.A.	T.B.A.	T.B.A.	T.B.A.
		Med-High	T.B.A.	T.B.A.	T.B.A.	T.B.A.	T.B.A.	T.B.A.	T.B.A.	T.B.A.	T.B.A.	T.B.A.
		Med-Low	T.B.A.	T.B.A.	T.B.A.	T.B.A.	T.B.A.	T.B.A.	T.B.A.	T.B.A.	T.B.A.	T.B.A.
048135	Bottom or Side(s)	High	2540	2495	2430	2355	2265	2175	2065	1935	1785	1650
		Med-High	2125	2120	2105	2060	2010	1940	1840	1730	1615	1485
		Med-Low	1790	1795	1790	1765	1720	1650	1585	1500	1390	1280
066135	Bottom or Side(s)	High	2090	2010	1930	1835	1710	1590	1470	1335	1025	835
		Med-High	1790	1755	1705	1640	1550	1465	1360	1210	945	785
		Med-Low	1545	1525	1500	1450	1380	1315	1215	1005	855	670
066135	Bottom or Side(s)	High	2485	2400	2310	2215	2110	2000	1880	1725	1535	1355
		Med-High	2195	2150	2090	2000	1920	1825	1720	1565	1405	1255
		Med-Low	1880	1850	1820	1780	1715	1635	1540	1415	1290	1160
066135	Both Sides or 1 Side & Bottom	High	T.B.A.	T.B.A.	T.B.A.	T.B.A.	T.B.A.	T.B.A.	T.B.A.	T.B.A.	T.B.A.	T.B.A.
		Med-High	T.B.A.	T.B.A.	T.B.A.	T.B.A.	T.B.A.	T.B.A.	T.B.A.	T.B.A.	T.B.A.	T.B.A.
		Med-Low	T.B.A.	T.B.A.	T.B.A.	T.B.A.	T.B.A.	T.B.A.	T.B.A.	T.B.A.	T.B.A.	T.B.A.
060155	Bottom or Side(s)	High	2320	2250	2155	2055	1970	1855	1725	1600	1450	1280
		Med-High	2125	2065	1995	1910	1815	1710	1610	1490	1340	1175
		Med-Low	1845	1825	1765	1710	1650	1570	1475	1370	1240	1100
060155	Bottom or Side(s)	High	2465	2430	2375	2305	2230	2110	2000	1865	1725	1545
		Med-High	2115	2105	2075	2030	1980	1910	1830	1725	1590	1425
		Med-Low	1800	1790	1770	1735	1695	1640	1570	1465	1345	1225
060155	Both Sides or 1 Side & Bottom	High	T.B.A.	T.B.A.	T.B.A.	T.B.A.	T.B.A.	T.B.A.	T.B.A.	T.B.A.	T.B.A.	T.B.A.
		Med-High	T.B.A.	T.B.A.	T.B.A.	T.B.A.	T.B.A.	T.B.A.	T.B.A.	T.B.A.	T.B.A.	T.B.A.
		Med-Low	T.B.A.	T.B.A.	T.B.A.	T.B.A.	T.B.A.	T.B.A.	T.B.A.	T.B.A.	T.B.A.	T.B.A.

* A filter is required for each return-air supply. Airflow performance includes 1" washable filter media such as contained in factory-authorized accessory filter rack.

To determine airflow performance without this filter, assume an additional .1 available external static pressure.

-Indicates unstable operating conditions.



SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE

UNIT MUST BE INSTALLED IN ACCORDANCE
WITH INSTALLATION INSTRUCTIONS

Cancels: NEW