

# Direct Gas Make-Up Air Selection Matrix



## Common Specifications

<b>Listing Information</b>	ETL listed and certified. Unit will bear ETL mark that certifies compliance to:		
	ANSI Z83.4 (100% OSA and VAV)		
	ANSI Z83.18 (Recirculation)		
	UL 1995 (All units)		
<b>Direct-Fired Burner</b>	92% efficient direct gas-fired burner		
	Burner capable of providing 30:1 modulating turndown		
	Burner consists of a cast aluminum manifold and 400 series stainless steel mixing plates		
	Low-fire start standard 10 second pre-purge standard		
<b>Electrical and Controls</b>	Factory mounted and wired disconnect		
	Unit will be factory wired for single point power (except when an external VFD is selected)		
	Low voltage controls standard, 24 VAC (except for 120 VAC pilot ignition gas controls)		
<b>Fan and Motor</b>	Fan and motor assembly are internally isolated from the unit		
	Motors greater than 3/4 HP shall be "NEMA Premium™" standard		
<b>Special Design Requests</b>	None Available	None Available	Available contact MUA

## Selection Tab

Airflow Range	1000 - 8000	800 - 15,000	800 - 48,000
<b>Unit Configuration</b>	Constant Volume 100% OA	Constant Volume 100% OA	Constant Volume 100% OA
		Variable Volume	Variable Volume*
			Recirculation
<b>Weatherhood (F) = 2" Aluminum filters included</b>	Aluminum Mesh (F)	Aluminum Mesh (F)	Aluminum Mesh (F)
		Birdscreen	Birdscreen
		Louvered (F)	Louvered* (F)
		No Weatherhood	No Weatherhood Thru-Wall (F)
<b>V-Bank Filter Section</b>	V-Bank filter section is not available. 2" aluminum filters are provided in the weatherhood	2" Aluminum 2" MERV 8 (30-35% Efficient)	2" Aluminum 2" MERV 8 (30-35% Efficient) 2" MERV 13 (90% Efficient) 4" MERV 14 (90-95% Efficient) 2" MERV 8 and 2" MERV 13* 2" MERV 8 and 4" MERV 14*
<b>Dampers</b>	Inlet Damper	Inlet Damper	Inlet Damper
		Non- Insulated Outlet Damper	Non- Insulated Outlet Damper
		Insulated Outlet Damper	Insulated Outlet Damper
<b>Cooling</b>		Evaporative	Evaporative
			Split DX*
			Chilled Water*
			Packaged DX*

\*Indicates some restrictions apply see CAPS help text for more info



Model Tab			
Supply Air Discharge	Bottom	Bottom	Bottom
	End (Horizontal)	End (Horizontal)	End (Horizontal)
		Side (Left or Right) *P only	Top
		Side (Left or Right) *P only	
Unit Config Tab			
Insulation Type	Duct Liner (1" Fiberglass)	Duct Liner (1" Fiberglass)	Duct Liner (1" Fiberglass)
		Double Wall	Double Wall
Curbs	GPI	GPI	GPI*
	GPS	GPS	GPS*
	GPIP (Pitched)	GPIP (Pitched)	GPIP* (Pitched)
		Combo Curb	Combo Curb*
		GKD (H35 - H42)	
Finishes	Galvanized	Galvanized	Galvanized
	Permatector	Permatector	Permatector
	Baked Enamel	Baked Enamel	Baked Enamel
			Hi-Pro Poly
Fan and Motor Isolation	Neoprene (1-1/8" Thick)	Neoprene (1-1/8" Thick)	Neoprene (1-1/8" Thick)
			Spring
Unit Arrangement	Right-Hand Access (Standard)	Right-Hand Access (Standard)	Right-Hand Access (Standard)
	Left-Hand Access		Left-Hand Access
Unit Accessories			Extended Lube Lines*
			Hinged Access
Unit Warranty	1 year (STD)	1 year (STD)	1 year (STD)
	2 year (1 yr ext.)	2 year (1 yr ext.)	2 year (1 yr ext.)
Electrical Tab			
Exhaust Fan Starters		Optional	Optional
Supply Aux Contacts		Optional	Optional
Exhaust Aux Contacts		Optional (with exh fan starter)	Optional (with exh fan starter)

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Controls Tab			
<b>Temperature Control</b>	Discharge	Discharge	Discharge
		Discharge with RO*	Discharge with RO*
		Room	Room
			External Control
<b>Remote Panel</b>	Kitchen	Kitchen	Kitchen
		Industrial (NEMA 1)	Industrial (NEMA 1)
			Severe Duty (NEMA 3R, 4X, 12)
<b>BMS Network Interface</b>			Monitor Only
			Monitor and Control
<b>VAV Control</b>		Variable Kitchen (Ext VFD)	Variable Kitchen (Ext VFD)
		Variable Kitchen (VFD in unit)	Variable Kitchen (VFD in unit)
			VFD by Factory (see below)
			VFD by Others
<b>VFD by Factory Controls</b>			2 Speed
			Ext. 2-10 Vdc
			Ext. 4-20 mA
			Potentiometer*
<b>Recirculation Controls</b>			Building Pressure*
			2 Position - Switch
			2 Position - Time Clock
			Ext. 2-10 Vdc
			Ext. 4-20 mA
<b>Night Setback</b>			Potentiometer*
			Building Pressure*
<b>Electric Accessories</b>	Heating Inlet Air (Lockout)	Heating Inlet Air (Lockout)	Heating Inlet Air (Lockout)
		Cooling Inlet Air (Lockout)	Cooling Inlet Air (Lockout)
		Smoke Detector	Smoke Detector
		Dirty Filter Switch	Dirty Filter Switch
		Service Outlet	Service Outlet
		Fire Stat Type III	Fire Stat Type III
		Freeze Protection	Freeze Protection
		Ext. Cooling Lockout Relay	Ext. Cooling Lockout Relay
			Inlet Damper End Switch
Direct Gas Tab			
<b>Flame Sensing</b>	Flame Rod	Flame Rod	Flame Rod
			UV Scanner*
<b>Direct Gas Accessories</b>		High Gas Pressure Switch	High Gas Pressure Switch
		Low Gas Pressure Switch	Low Gas Pressure Switch
		Visual Indication Valves	Visual Indication Valves
		Carbon Dioxide Sensor	Carbon Dioxide Sensor
		Flame Safeguard Display*	Flame Safeguard Display*
<b>Extended Burner Warranty</b>			Hydro, POC Valves*
	5 Year Ext.	5 Year Ext.	5 Year Ext.
	10 Year Ext.	10 Year Ext.	10 Year Ext.

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