



# LG Dedicated Outdoor Air System

## LG DOAS

- Dehumidification of Outdoor Air Using VRF Technology
- 100% Outdoor Air
- Selectable CFM



# LG DOAS

## About LG DOAS

Modern buildings today are built to be energy efficient and tightly sealed. LG Dedicated Outdoor Air System (DOAS) is a system that brings fresh outdoor air indoors to improve air quality without sacrificing energy efficiency.

## Why LG DOAS?

LG DOAS is a premiere dedicated outdoor air system for fresh air exchange. This particular model is designed specifically for LG VRF systems, and its double wall rigid polyurethane foam insulated panels increase thermal resistance and decrease sound levels.

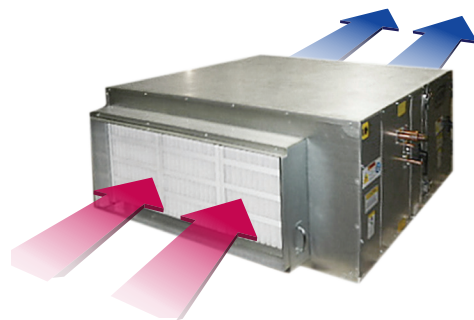
## How Does DOAS Work?

The LG DOAS preconditions temperature and humidity of incoming fresh air before bringing it indoors. The aim is to achieve a balance between indoor and outdoor ambient temperatures.

Also, LG DOAS enables the load placed on the air conditioning system to be reduced in some designs.

## Features/Benefits

- Selectable CFM: 1,200, 1,600 and 2,000 CFM (Flexible design)
- Double wall insulation (Low sound)
- Low profile (Saves ceiling space)
- Variable speed fans with ECM motor (ECM adjustable static pressures)
- Merv 8 filter standard (Clean indoor air)
- SCR controlled electric preheat coil (Saves energy)
- Access doors with removable pins (Easier service)
- Web accessible controls (Remote access)
- LonWorks® or BACnet® ready (Saves install cost)
- Available in two models: with and without electric preheat coil
- Reheat coil allows heating of dehumidified air to neutral room temperatures



Mounts indoors, low profile

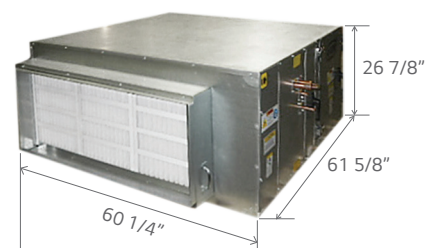




## Applications

- Schools
- Universities
- Offices
- Stadiums
- Retail stores
- Hospitals
- Medical offices
- Condominiums
- Apartments
- Multi-use facilities

## Unit Dimensions



## SPECIFICATIONS

	Dedicated Outdoor Air System*	
	ARND20BDAT2	ARND20BDAR2
<b>Cooling Mode Performance</b>		
Capacity (Btu/h)	143,100	143,100
<b>Heating Performance</b>		
Capacity (Btu/h) (Main Coil)	59,900	59,900
Capacity (Btu/h) (Reheat Coil)	45,900	45,900
<b>Entering Air</b>		
Cooling Max (°F DB/WB)	122/78	122/78
Heating Min (°F DB)	2.5	41
<b>Unit Data</b>		
Refrigerant Type	R410A	R410A
Refrigerant Control	EEV	EEV
Sound Power dB(A)	84	84
Net Unit Weight (lbs)	725	600
Shipping Weight (lbs)	825	700
Communication Cable	4 x 18	4 x 18
<b>Fan</b>		
Type	Backward Curved Plenum	Backward Curved Plenum
Motor	1	1
Motor/Drive	ECM/Direct	ECM/Direct
Airflow Rate (CFM)	2,000	2,000
External Static Pressure (in wg)	1.65	1.65
AirFlow Range (CFM)	1,200 - 2,000	1,200 - 2,000
<b>Piping (Main Coil)</b>		
Liquid Line (in, OD)	1/2	1/2
Vapor Line (in, OD)	1-1/8	1-1/8
<b>Piping (Reheat Coil)</b>		
Liquid Line (in, OD)	1/2	1/2
Vapor Line (in, OD)	1-1/8	1-1/8
<b>Condensate</b>		
Condensate Line (in, OD)	1 NPT	1 NPT

\* Not compatible with LG Heat Recovery



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