

## DEDICATED OUTDOOR AIR SYSTEM APPLICATION GUIDE

Manufacturer	Greenheck	Greenheck	UCA	UCA	LG	LG	LG	Innovent
Model	RV	RVE	Omega Air	Alpha Air	AR-DE	ARND	Multi-V HCA	C-Series
Airflow Range (CFM)	500-18,000	500-18,000	150-3000	100-500	800-18,000	1500,2000 <sup>(3)</sup>	400-4,000	250-250,000
Nominal Capacity (Tons)	5-70 <sup>(7)</sup>	5-70 <sup>(7)</sup>	1-15	2.8 <sup>(12)</sup>	5-70	10,12.5	5-25 <sup>(14)</sup>	1-400 <sup>(11)</sup>
Packaged DX <sup>(9)</sup>	Yes	Yes	Yes	Yes	Yes	No	No	Yes
Split System DX	Yes	Yes	Yes	No	No	Yes	Yes	Yes
Condenser Type <sup>(2)</sup>	Remote CO	Remote CO	Remote CU	Integral DCU	Integral CU	Remote VRF CU	Remote VRF CU	Remote CU or CO
Modulating HGRH <sup>(1)</sup>	Yes	Yes	Yes	Yes <sup>(13)</sup>	Yes	Yes	Yes	Yes
Digital Compressor	Yes	Yes	Yes	No	Yes	No	No	Yes
Inverter Compressor	Yes	Yes	No	No	Yes	Yes	Yes	Yes
Air Source Heat Pump	Yes	Yes	No	Yes <sup>(13)</sup>	Yes	Yes	Yes	Yes
Electric Heat <sup>(8)</sup>	Yes	Yes	Yes	No	Yes	No	Yes	Yes
Gas Heat <sup>(10)</sup>	Yes	Yes	No	No	Yes	No	No	Yes
Energy Recovery	No	Yes	No	Dual Path <sup>(13)</sup>	Yes	No	No	Yes <sup>(4)</sup>
Cabinet Construction	2" DW	2" DW	2" DW	2" DW	2" DW	2" DW	2" DW	2", 4" DW
VFD or ECM Supply Fan	ECM	ECM	ECM	ECM	VFD	ECM	ECM	VFD
Controller <sup>(5)</sup>	LCD MP	LCD MP	LCD MP	LCD MP	LCD MP	Touchscreen MP	Touchscreen MP	Multiple/Custom
BACnet Interface	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
LonWorks Interface	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Factory Mounted AFMS <sup>(6)</sup>	Yes	Yes	No	No	Yes	No	No	Yes

1. Hot Gas Re-Heat (HGRH); units with remote CO include factory piped HGRH with compressors indoor section reducing field piping cost and HGRH line losses; see refrigerant piping guidelines for line loss limits
2. All models are air cooled; either condensing unit (CU) with compressor in outdoor section or condenser only (CO) with compressor in indoor section; DCU = ducted condenser
3. LG ARND Available in two fixed sizes; max 4 indoor DOAS units per system, heat recovery only, combo ratio 50-110%; also available is 3,000 cfm split RTU with energy wheel model ARND30UDE4
4. Available in sensible or enthalpic plates, energy wheels, run-around coils or heat pipes
5. Microprocessor (MP); factory programmed with embedded Web UI; BACnet MSTP or IP optional all models
6. For options with yes, AFMS will be thermal dispersion type; for options with no, an optional field mounted packaged AFMS and Motorized damper may be added, Greenheck Model AM-23-TD
7. ASHP range is 5-30 tons; chilled water cooling optional; partial re-circ available; up to 16:1 modulating gas heat turndown
8. SCR modulating control; available for supplemental re-heat and with single point power
9. Omega Air unit integral condenser is self contained indoor either air cooled or water cooled (ducted intake and exhaust)
10. Omega Air and HCA units available with steam or hot water heating
11. Innovent provides custom DX solutions in split or packaged systems with design flexibility to meet high demand/precision dehumidification applications and provide direct drop in replacement for any existing equipment by any manufacturer
12. Capacity varies due to energy recovery conditions; rated capacity above is at 95/78 OA, 75/62 WB, 74/60 LAT @ 42% RH; see UCA specific psych chart and published data
13. See Alpha Air airflow path diagram and datasheet
14. Capacity is based on airflow limits of the MagicAire HCA AHU; expanded capacity and custom options available utilizing LG AHU Kits and York Solution Air Handlers; model HCA AHU includes optional factory mounted HEPA/Rigid filters, UV, anti-microbial inner
15. Unit Cutsheets and Engineering are located here:

[CLOUD DOCUMENTS](#)