

PRODUCT SNAPSHOTS: 2011 COMMERCIAL COOLING SHOWCASE

BRAND	COMPANY	MODEL	TYPE	UNIT SIZE (IN TONS)	COOLING CAPACITY (MBTUH)	SINGLE/MULTI STAGE	VARIABLE SPEED	COP	HSPF	SEER	EER	COMPRESSOR TYPE	REFRIGERANT	PRODUCT AVAILABILITY	ECONOMIZERS	NOISE LEVEL (IN DBA)
AAON	AAON	LL Series	Chiller/boiler ²	35-540 chiller ³	420-6,480	Multi	Yes	Up to 5.17 (cooling)	MDNS ¹	MDNS ¹	MDNS ¹	Scroll	R-410A, R-134a	Built to order	Yes	MDNS ¹
AAON	AAON	RQ Series	Packaged rooftop units, heat pumps, DA handlers	2-6	24-72	Multi	Yes	4.3 (air)-5.6 (water)	Up to 9.3	Up to 19	14.9 (air)-15.4 (water)	Scroll	R-410A	Built to order	Yes	61 (discharge)
Allied Commercial	Allied Air Enterprises	KCA300S4BN	Electric rooftop unit	25	MDNS ¹	Multi	Yes	MDNS ¹	MDNS ¹	MDNS ¹	10	Scroll	R-410A	Contact distributor	Yes	MDNS ¹
Arcoaire	ICP	RAS072	Packaged A/C rooftop	6	70	Single	No	MDNS ¹	MDNS ¹	MDNS ¹	11.2	Scroll	R-410A	Stocked, contact distributor	Yes	78
Arcoaire	ICP	RGS091-121	Packaged gas/electric rooftop	7.5-10	88-117	Single	No	MDNS ¹	MDNS ¹	MDNS ¹	11	Scroll	R-410A	Stocked, contact distributor	Yes	82-83
Aztec	Mestex	ASC	Indirect evap. rooftop	MDNS ¹	MDNS ¹	Multi	Yes	MDNS ¹	MDNS ¹	MDNS ¹	MDNS ¹	MDNS ¹	MDNS ¹	Built to order	Yes	MDNS ¹
Bard	Bard Mfg. Co.	Q-Tec QWS Series	Packaged geothermal heat pump	2-5	20.4-57 (ground loop); 17.6-55 (ground water)	Multi	Yes	4-5.95 ⁴	MDNS ¹	MDNS ¹	14.2-24.1 ⁵	Scroll	R-410A	Just-in-time	Yes	MDNS ¹
Bard	Bard Mfg. Co.	Wall-mount	Environmental control unit	3-6	7.4-68 (60 Hz); 6.74-61.9 (50 Hz)	Multi	Yes	MDNS ¹	MDNS ¹	MDNS ¹	MDNS ¹	Scroll	R-410A	Just-in-time	No	MDNS ¹
Bryant	Bryant Heating & Cooling	Legacy Series 580J/558J/548J	Rooftop	3-25	36-300	Multi	No	3.3	7.7	13.4	11.2	Scroll	R-410A	Stocked, just-in-time, contact distributor	Yes	As low as 78
Carrier	Carrier Corp.	WeatherMaster Series 48/50 P	Packaged rooftop	30-100	360-1,200	Multi	No	MDNS ¹	MDNS ¹	MDNS ¹	Up to 10.9	Scroll	R-410A	Just-in-time, contact distributor	Yes	Varies
Carrier	Carrier Corp.	WeatherMaster Series 48/50HC/HCQ	Rooftop	3-25	36-300	Multi	No	Up to 3.5	Up to 8.2	Up to 15.8	Up to 13	Scroll	R-410A	Stocked, just-in-time, contact distributor	Yes	As low as 78
Century	Heat Controller, Inc.	EKTC-2G Series	Packaged terminal A/C	MDNS ¹	7-15	Single	No	MDNS ¹	MDNS ¹	MDNS ¹	9.8-12	Rotary	R-410A	Stocked	No	48-53 (indoor); 61-65 (outdoor)
Century	Heat Controller, Inc.	HBH Compact Commercial	Water-source heat pump	0.5-5	5.8-59.4	Single	No	4.2-5	MDNS ¹	MDNS ¹	13.2-15.4	Scroll, rotary	R-410A	Stocked	No	MDNS ¹
ClimaCool	ClimaCool Corp	SHC onDEMAND	Heat pump	30-85	360-1,200	Multi	No	Up to 5 (heating)	MDNS ¹	MDNS ¹	Up to 25 (cooling)	Scroll	R-410A, R-134a	Stocked, built to order	No	@74
ClimaCool	ClimaCool Corp	UCA	Packaged chiller	20, 30	240-4,320	Multi	No	MDNS ¹	MDNS ¹	MDNS ¹	At least 10	Scroll	R-410A	Stocked, built to order	Yes	78
ClimateMaster	ClimateMaster	Tranquility TR Series	Packaged heat pump	0.5-5	6-60	Single	No	3.1-5	MDNS ¹	MDNS ¹	13.1-24.5	Scroll, rotary	R-410A	Stocked, just-in-time	No	MDNS ¹
ClimateMaster	ClimateMaster	Tranquility TRE Series	Rooftop	3-20	36-240	Multi	No	3.4-5.2	MDNS ¹	MDNS ¹	13.6-24	Scroll	R-410A	Just-in-time	Yes	MDNS ¹
Comfort-Aire	Heat Controller, Inc.	HBH Large Commercial Series	Water-source heat pump	6-10	69-119 (water loop)	Single	No	4.6-5 (water loop)	MDNS ¹	MDNS ¹	13.3-13.7 (water loop)	Scroll	R-410A	Stocked	No	MDNS ¹
Comfort-Aire	Heat Controller, Inc.	RSG-B Series Commercial	Condensing unit	3-5	33.8-56.5	MDNS ¹	MDNS ¹	MDNS ¹	MDNS ¹	13	11-11.2	Scroll	R-410A	Stocked	MDNS ¹	MDNS ¹
Comfortmaker	ICP	PDS3	Packaged dual fuel heat pump	2.5-5	29-57	Single	No	MDNS ¹	7.7	13.2-13.5	11.5	Scroll	R-410A	Stocked, contact distributor	Yes	76-78
Comfortmaker	ICP	RAS090-150	Packaged A/C rooftop	7.5-12.5	83-140	Multi	No	MDNS ¹	MDNS ¹	MDNS ¹	Up to 11.3	Scroll	R-410A	Stocked, contact distributor	Yes	82-87
Daikin	Daikin AC	Round-Flow Cassette/FXFQ_PVJU	Indoor fan coil	0.75-4	Up to 54	Single	Yes	MDNS ¹	MDNS ¹	MDNS ¹	15.4	MDNS ¹	R-410A	Stocked	No	As low as 27
Day & Night	ICP	CHS180-240	Split system heat pump	15, 20	178-222	Multi	No	3.4-3.5	MDNS ¹	MDNS ¹	10.6-10.7	Scroll	R-410A	Stocked, contact distributor	No	80-85
Day & Night	ICP	RAH090-120	Packaged A/C rooftop	7.5-10	89-115	Multi	No	MDNS ¹	MDNS ¹	MDNS ¹	11.7-12.2	Scroll	R-410A	Stocked, contact distributor	Yes	82-87
Emerson Network Power	Emerson Network Power	SmartRow	Self-contained unit	5	MDNS ¹	Multi	No	MDNS ¹	MDNS ¹	MDNS ¹	MDNS ¹	Scroll	R-407C	Stocked	No	69
First Co.	First Co.	HydroTech WSH/WSV Series	Water-source heat pump	1.5-5	18-60	Single	Yes	Up to 4.4	MDNS ¹	MDNS ¹	Up to 14.9	Scroll, reciprocating	R-410A	Contact distributor	MDNS ¹	MDNS ¹
Goodman	Goodman Global Group, Inc.	CPC	Packaged A/C	Up to 20	240	MDNS ¹	No	MDNS ¹	MDNS ¹	MDNS ¹	Up to 11.2	Scroll	R-410A	Stocked	Yes	As low as 88
Heil	ICP	RGS072	Packaged gas/electric rooftop	6	70	Single	No	MDNS ¹	MDNS ¹	MDNS ¹	11	Scroll	R-410A	Stocked, contact distributor	Yes	78
Heil	ICP	RHS181-243	Packaged heat pump rooftop	15-20	172-232	Multi	No	3.3	MDNS ¹	MDNS ¹	10.5-10.8	Scroll	R-410A	Stocked, contact distributor	Yes	84.1-86.5
ICP Commercial	ICP	CHS180-240	Split system heat pump	15, 20	178-222	Multi	No	3.4-3.5	MDNS ¹	MDNS ¹	10.6-10.7	Scroll	R-410A	Stocked, contact distributor	No	80-85
ICP Commercial	ICP	RGH090-120 Packaged Gas/Electric	Packaged gas/electric rooftop	7.5-10	89-118	Multi	No	MDNS ¹	MDNS ¹	MDNS ¹	11.5-12	Scroll	R-410A	Stocked, contact distributor	Yes	82-87
IEC	Int'l Environmental Corp.	Horizontal Series ⁶	Fan coil, blower coil	0.5-10	6-120	Multi	Yes	MDNS ¹	MDNS ¹	MDNS ¹	MDNS ¹	MDNS ¹	MDNS ¹	Stocked, just-in-time	No	MDNS ¹
Lennox	Lennox Industries	Energence with SunSource	Rooftop	3-6	34.8-575	Multi	Yes	MDNS ¹	MDNS ¹	17	12.8	Scroll	R-410A	Built to order	Yes	75-82
LG Electronics USA	LG Electronics USA	LG Multi V ⁷	VRF air handler	1.5-4.5	18-54	Multi	Yes	MDNS ¹	MDNS ¹	MDNS ¹	MDNS ¹	MDNS ¹	R-410A	Contact distributor	MDNS ¹	As low as 39
LG Electronics USA	LG Electronics USA	Multi V Water II ⁸	Water-cooled VRF heat pump	6-48	72-573	Multi	Yes	See note ⁹	See note ⁹	See note ⁹	See note ⁹	Scroll	R-410A	Contact distributor	No	@51
Magic Pak	Allied Air Enterprises	10MCE4-10-241P-1	Electric cooling unit	2	22.6	Single	Yes	MDNS ¹	MDNS ¹	MDNS ¹	10.4	Scroll	R-401A	Contact distributor	No	74
Marvair	Marvair	GeoScholar III VWIA	Water-source heat pump	2-5	24-60	Multi	No	Up to 3.7	MDNS ¹	MDNS ¹	Up to 17	Scroll	R-410A	Built to order	Yes	Less than 40
McQuay	McQuay Intl.	AGZ-D	Chiller	25-190	MDNS ¹	MDNS ¹	MDNS ¹	MDNS ¹	MDNS ¹	MDNS ¹	9.6-10.3	Scroll	R-410A	Stocked, contact distributor	No	As low as 60
McQuay	McQuay Intl.	Maverick II MPS	Rooftop	15-75	180-900	Multi	Yes	MDNS ¹	MDNS ¹	MDNS ¹	10-11	Scroll	R-410A	Just-in-time	Yes	MDNS ¹
Mitsubishi Electric	Mitsubishi Electric	PUHY	Split system	6-30	96	Single	MDNS ¹	MDNS ¹	MDNS ¹	MDNS ¹	MDNS ¹	Scroll, inverter	R-410A	Stocked	MDNS ¹	58
Mitsubishi Electric	Mitsubishi Electric	PUZ	Split system	3	30	Single	Yes	MDNS ¹	MDNS ¹	16.1	MDNS ¹	Scroll, inverter	R-410A	Stocked	No	52
Multistack	Multistack	MS85X	Chiller	85	1,002	Multi	No	0.741	MDNS ¹	MDNS ¹	16.2	Scroll	R410A	Stocked	Yes	81.5
Rheem	Rheem Mfg. Co.	RKKL-B	Packaged gas/electric rooftop	15, 20	180, 240	Multi	Yes	MDNS ¹	MDNS ¹	MDNS ¹	Up to 11.1	Scroll	R-410A	Stocked	Yes	88
Rheem	Rheem Mfg. Co.	RLKL	Packaged A/C rooftop	15, 20	180, 240	Multi	Yes	MDNS ¹	MDNS ¹	MDNS ¹	Up to 11	Scroll	R-410A	Stocked	Yes	88
Robur	Robur Corp.	RTAR Series	Absorption heat pump	9.6-28.8	115.4-346.2	Multi	Yes	MDNS ¹	MDNS ¹	MDNS ¹	MDNS ¹	MDNS ¹	R-717	3-5 weeks	No	48-63
Tempstar	ICP	RAS090-150	Packaged A/C rooftop	7.5-12.5	83-140	Multi	No	MDNS ¹	MDNS ¹	MDNS ¹	Up to 11.3	Scroll	R-410A	Stocked, contact distributor	Yes	82-87
Tempstar	ICP	RHS181-243	Packaged heat pump rooftop	15-20	172-232	Multi	No	3.3	MDNS ¹	MDNS ¹	10.5-10.8	Scroll	R-410A	Stocked, contact distributor	Yes	84.1-86.5
Trane	Trane	IntelliPak	Evap. condensing unit	20-162	120-162	Multi	MDNS ¹	MDNS ¹	MDNS ¹	MDNS ¹	MDNS ¹	Scroll	R-410A	Built to order	Yes	Varies
Trane	Trane	Performance Climate Changer	Air handler	MDNS ¹	MDNS ¹	MDNS ¹	Yes	MDNS ¹	MDNS ¹	MDNS ¹	MDNS ¹	MDNS ¹	MDNS ¹	Built to order	Yes	Varies
York	Johnson Controls	YVAA	Chiller	150-275	MDNS ¹	Single	Yes	MDNS ¹	MDNS ¹	MDNS ¹	Up to 11.6	Rotary	R-134a	Built-to-order	No	MDNS ¹
York	Johnson Controls	YMC ²	Chiller	215-380	MDNS ¹	Single	Yes	MDNS ¹	MDNS ¹	MDNS ¹	MDNS ¹	MDNS ¹	R-134a	Built-to-order	No	Never exceeds 73

¹ Manufacturer did not specify

² Chiller, outdoor mechanical room with boilers, pumping pkgs.

³ 500-6,000 MBtu/h boiler capacity

⁴ Ground loop applications: Up to 4; Ground water applications: Up to 5.95

⁵ Group loop applications: 15.9-24.1; Ground water applications: 14.2-16.5

⁶ Horizontal Series, Hi-Performance Series and Belt Drive Series for Seismic Applications

⁷ ARNU183NJA2, ARNU243NJA2, ARNU303NJA2, ARNU363NJA2, ARNU423NKA2, ARNU483NKA2, ARNU543NKA2

⁸ ARWN072BA2, ARWN144BA2, ARWN216BA2, ARWN288BA2, ARWN360BA2, ARWN432BA2, ARWN096DA2, ARWN192DA2, ARWN290DA2, ARWN390DA2, ARWN480DA2, ARWN580DA2

⁹ U.S. Department of Energy (DOE) does not have official testing and rating program in place for VRF equipment.