

HVAC System Performance Comparison: Key Metrics and Specifications																
Brand	Company	Model	Type	Unit Size (in tons)	Cooling Capacity (mbthu)	Motor Technology	Motor Speed	Compressor Technology	Stages	COP	HSPF	SEER	EER	Product Availability	Economizers	Noise Level in (dba)
Aaon	Aaon Heating and Cooling Products	LF Series	Chiller	4-55	48-660	ECM; VFD	Variable	Scroll	Modulating	MDNS ¹	MDNS ¹	MDNS ¹	MDNS ¹	Built-to-order	Yes	MDNS ¹
Aaon	Aaon Heating and Cooling Products	RN Series	Rooftop unit	11-30	132-360	ECM; VFD	Variable	Scroll	Modulating	MDNS ¹	MDNS ¹	MDNS ¹	MDNS ¹	Built-to-order	Yes	MDNS ¹
Airstage	Fujitsu General America Inc.	J-II Series	Heat pump	3-5	Up to 60	Inverter	Variable	Rotary; inverter	Single, multi	Up to 3.88	Up to 11.4	Up to 19.8	Up to 13.3	Stocked	Yes	50-57
Arcoaire	International Comfort Products	RGH036-072	Pkg. gas/elec. rooftop	3-6	36-73	PSC	Fixed	Scroll	Single	MDNS ¹	MDNS ¹	Up to 15.6	Up to 13	Stocked; contact distrib.	Yes	76-82
Arcoaire	International Comfort Products	RGH181-303	Pkg. gas/elec. rooftop	15-25	174-282	PSC	Fixed	Scroll	Two	MDNS ¹	MDNS ¹	MDNS ¹	11.2-12	Stocked; contact distrib.	Yes	84.1-86.5
Bard	Bard Mfg. Co. Inc.	I-TEC	Air conditioner	2.5-5	20.6-55	ECM	Variable	Scroll	Two	MDNS ¹	MDNS ¹	MDNS ¹	Up to 12.7	Built to job specification	Yes	MDNS ¹
Carrier	Carrier Corp.	AquaSnap 30RAP	Air-cooled chiller	10-60	120-720	MDNS ¹	Variable fans, fixed compressors	Scroll	Single	3.11	MDNS ¹	MDNS ¹	MDNS ¹	Stocked; just-in-time	No	58
Carrier	Carrier Corp.	WeatherMaker 48/50A Series	Air conditioner	20-60	MDNS ¹	PSC	Variable	Scroll	Modulating	MDNS ¹	MDNS ¹	MDNS ¹	10-10.3	Just-in-time	Yes	As low as 88.4
Century Climacool	Century/MARS	PTAC	PTAC	0.6-1.25	7-15	PSC	Fixed	Rotary	Single	MDNS ¹	MDNS ¹	MDNS ¹	9.61-12.1	Stocked	No	35-44
Century Climacool	Climacool	Simultaneous Heating and Cooling (SHC) onDEMAND	Chiller	30-1,000	MDNS ¹	MDNS ¹	MDNS ¹	Scroll	MDNS ¹	Up to 5 (heating)	MDNS ¹	MDNS ¹	25	Contact distrib.	MDNS ¹	MDNS ¹
Climatemaster	Climatemaster Inc.	Tranquility Compact	Water-source HP	0.5-5	60	PSC; ECM	Fixed	Scroll; rotary	Single	5.3	MDNS ¹	MDNS ¹	16	Stocked	Yes	MDNS ¹
Comfort-Aire	Comfort Aire/MARS	HBV072-HBV300	Water-source HP	6-25	82.3-342.5	PSC	Fixed	Scroll	Two	2.9-5.5	MDNS ¹	MDNS ¹	14-15.2	Call for availability	No	MDNS ¹
Comfortmaker	International Comfort Products	PHR5	Pkg. HP	2-5	23-57	ECM	Fixed	Scroll	Two	Up to 3.8	Up to 8.5	Up to 15.5	Up to 12.5	Stocked; contact distrib.	Yes	72-75
Comfortmaker	International Comfort Products	RHH036-072	Pkg. rooftop HP	3-6	36.4-72	PSC	Fixed	Scroll	Single	Up to 3.5	Up to 8.2	Up to 15.8	Up to 12.8	Stocked; contact distrib.	Yes	76-81
Daikin Applied	Daikin Applied	Pathfinder AWW	Air-cooled chiller	165-350	MDNS ¹	ECM	Variable	Rotary	Variable volume ratio compressor	MDNS ¹	MDNS ¹	MDNS ¹	MDNS ¹	Just-in-time	MDNS ¹	MDNS ¹
Daikin-Unity	Daikin North America LLC	DCG/C	Pkg. rooftop	25	290	MDNS ¹	MDNS ¹	Scroll	Two	MDNS ¹	MDNS ¹	MDNS ¹	Up to 10.2 and 11.8 IEER	Stocked	Yes	92
Daikin-Unity	Daikin North America LLC	DTG/H/C	Pkg. rooftop	3-5	35.4-59.5	MDNS ¹	MDNS ¹	Scroll	Single	MDNS ¹	8	Up to 15.5	Up to 13	Stocked	Yes	78
Daikin-VRV	Daikin North America LLC	FXFQ-TVJU	VRV indoor HP	0.6-4	7.5-48	MDNS ¹	Variable	Inverter	Modulating	MDNS ¹	MDNS ¹	MDNS ¹	MDNS ¹	Stocked	MDNS ¹	As low as 27
Daikin-VRV	Daikin North America LLC	VRV IV S-Series	VRV outdoor HP	3-5	34-57	ECM	Variable	Inverter	Modulating	MDNS ¹	Up to 10.5	Up to 18	MDNS ¹	Stocked	MDNS ¹	55
Day & Night	International Comfort Products	RAH 090-150	Pkg. rooftop A/C	7.5-12.5	89-148	PSC	Fixed	Scroll	Two	MDNS ¹	MDNS ¹	MDNS ¹	11.7-12.4	Stocked; contact distrib.	Yes	82-87
Day & Night	International Comfort Products	RHH036-072	Pkg. rooftop HP	3-6	36.4-72	PSC	Fixed	Scroll	Single	Up to 3.5	Up to 8.2	Up to 15.8	Up to 12.8	Stocked; contact distrib.	MDNS ¹	76-81
FHP	Bosch Thermotechnology Corp.	EP	Water-source HP	0.5-6	24.5	PSC	Variable	Scroll	MDNS ¹	5.7 WLHP ²	MDNS ¹	MDNS ¹	8.2 WLHP ²	Just-in-time; contact distrib.	Yes	55
Friedrich Air Conditioning	Friedrich Air Conditioning	MR36TQY3JMA	Heat pump	3	36	ECM	Variable	Rotary; inverter	Modulating	MDNS ¹	10	22	13	Contact distrib.	No	MDNS ¹
Friedrich Air Conditioning	Friedrich Air Conditioning	MR48DEY3JM	Heat pump	4	48	ECM	Variable	Rotary; inverter	Modulating	MDNS ¹	10	19.5	12.5	Contact distrib.	No	MDNS ¹
GeoComfort	Enertech Global LLC	Commercial Series, GVT 024-072	Water-source geothermal HP	2-6	24.6-68.2	ECM	Variable	Scroll	Two	4.3-6 WLHP ²	MDNS ¹	MDNS ¹	14.3-17.9 WLHP ²	Stocked; just-in-time; contact distrib.	MDNS ¹	MDNS ¹
GeoComfort	Enertech Global LLC	Commercial Series, GZT 024-072	Water-source geothermal HP	2-6	24.851-72.279	ECM	Variable	Scroll	Two	4.4-6.2 WLHP ²	MDNS ¹	MDNS ¹	15.6-21.3 WLHP ²	Stocked; just-in-time; contact distrib.	MDNS ¹	MDNS ¹
Haier Ductless	Haier America	FlexFit	Multi-zone ductless HP	1.5-3	18-36	PSC	Variable	Rotary	Modulating	MDNS ¹	Up to 10	Up to 18	Up to 10.5	Stocked	No	Down to 53 (outdoor); 21 (indoor)
Heil	International Comfort Products	PHR5	Pkg. HP	2-5	23-57	ECM	Fixed	Scroll	Two	Up to 3.8	Up to 8.5	Up to 15.5	Up to 12.5	Stocked; contact distrib.	Yes	72-75
Heil	International Comfort Products	RAH036-072	Pkg. rooftop A/C	3-6	36-73	PSC	Fixed	Scroll	Single	MDNS ¹	MDNS ¹	Up to 15.6	Up to 13	Stocked; contact distrib.	Yes	76-82
Hydron Module	Enertech Global LLC	Commercial Series, HVT 024-072	Water-source geothermal HP	2-6	24.6-68.2	ECM	Variable	Scroll	Two	4.3-6 WLHP ²	MDNS ¹	MDNS ¹	14.3-17.9 WLHP ²	Stocked; just-in-time; contact distrib.	MDNS ¹	MDNS ¹
Hydron Module	Enertech Global LLC	Commercial Series, HZT 024-072	Water-source geothermal HP	2-6	24.851-72.279	ECM	Variable	Scroll	Two	4.4-6.2 WLHP ²	MDNS ¹	MDNS ¹	15.6-21.3 WLHP ²	Stocked; just-in-time; contact distrib.	MDNS ¹	MDNS ¹
ICP Commercial	International Comfort Products	RAH 090-150	Pkg. rooftop A/C	7.5-12.5	89-148	PSC	Fixed	Scroll	Two	MDNS ¹	MDNS ¹	MDNS ¹	11.7-12.4	Stocked; contact distrib.	Yes	82-87
ICP Commercial	International Comfort Products	RGH036-072	Pkg. gas/elec. rooftop	3-6	36-73	PSC	Fixed	Scroll	Single	MDNS ¹	MDNS ¹	Up to 15.6	Up to 13	Stocked; contact distrib.	Yes	76-82
Industrial Climate Engineering	Industrial Climate Engineering	ECUA240	Air conditioner	240	216	ECM	Fixed	Scroll	Two	MDNS ¹	MDNS ¹	MDNS ¹	MDNS ¹	Contact distrib.	No	MDNS ¹
LG Electronics	LG USA Inc.	Multi V S Model ARUN053GSS4	Inverter HP	4.4	53	BLDC	Variable	Rotary; inverter	Single	Varies	8.53	14.53	93	Contact distrib.	No	52
Liebert	Emerson Network Power	PDX/PCW	Air conditioner	5-8	60-96	ECM	Variable	Scroll	Modulating	1.81-3.79	MDNS ¹	MDNS ¹	MDNS ¹	Contact distrib.	Yes	MDNS ¹
Mammoth	Nortek Global HVAC	P8SE	Pkg. A/C	3-5	35-57	ECM	Fixed	Scroll	Single	MDNS ¹	MDNS ¹	14	11	Contact distrib.	Yes	MDNS ¹
Marvair	Marvair	ComPac AVHA	Air conditioner	30-60	29-54	ECM	Variable	Scroll	Single	MDNS ¹	MDNS ¹	MDNS ¹	10	Stocked	Yes	MDNS ¹
Mitsubishi Electric	Mitsubishi Electric Cooling & Heating	City Multi L-Generation	VRF air-source HP	6-30	72-360	Inverter-control, BLDC	Variable	Inverter	Modulating	3.84-4.44 (ducted); 3.41-3.51 (non-ducted)	MDNS ¹	MDNS ¹	13.7-16.4 (ducted); 11.6-12.5 (non-ducted)	Stocked	No	58-65
Mitsubishi Electric	Mitsubishi Electric Cooling & Heating	City Multi L-Generation	VRF water-source HP	6-30	72-360	MDNS ¹	Variable	Scroll; inverter	Modulating	5.8-6.15 (ducted); 4.54-5.08 (non-ducted)	MDNS ¹	MDNS ¹	17.4-20.7 (ducted); 10.8-11 (non-ducted)	Stocked	No	46-58
Reznor	Nortek Global HVAC	Z62e Series	Dedicated outdoor air unit	3-6	110	ECM	Fixed	Scroll	Modulating	9.5	MDNS ¹	MDNS ¹	17.5	Just-in-time	No	65
Rheem	Rheem Mfg. Co.	H2AC, RLHL-D	Rooftop unit	15	180	MDNS ¹	Fixed	Scroll	Single	MDNS ¹	MDNS ¹	MDNS ¹	12.4	Contact distrib.; built to order	Yes	MDNS ¹
Ruud	Ruud	H2AC, RLHL-C	Rooftop unit	10	120	MDNS ¹	Fixed	Scroll	Single	MDNS ¹	MDNS ¹	MDNS ¹	11.25	Contact distrib.; built to order	Yes	MDNS ¹
Samsung	Samsung HVAC	DVMS MAX HEAT, AMO**KXVTFH/AA	Heat pump	6-24	72-288	BLDC	Variable	Inverter	MDNS ¹	Up to 4.65	MDNS ¹	MDNS ¹	Up to 15.5	Contact distrib.	MDNS ¹	60 max.
Suburban	Suburban	DynaPack DYPA12-36	Heat pump	12-36	MDNS ¹	PSC	Fixed	Scroll; reciprocating; rotary	Single	3	MDNS ¹	MDNS ¹	10	Contact distrib.	No	MDNS ¹
Tempstar	International Comfort Products	RAH036-072	Pkg. rooftop A/C	3-6	36-73	PSC	Fixed	Scroll	Single	MDNS ¹	MDNS ¹	Up to 15.6	Up to 13	Stocked; contact distrib.	Yes	76-82
Tempstar	International Comfort Products	RGH181-303	Pkg. gas/elec. rooftop	15-25	174-282	PSC	Fixed	Scroll	Two	MDNS ¹	MDNS ¹	MDNS ¹	11.2-12	Stocked; contact distrib.	Yes	84.1-86.5
TETCO	Enertech Global LLC	Commercial Series, TVT 024-072	Water-source geothermal HP	2-6	24.6-68.2	ECM	Variable	Scroll	Two	4.3-6 WLHP ²	MDNS ¹	MDNS ¹	14.3-17.9 WLHP ²	Stocked; just-in-time; contact distrib.	MDNS ¹	MDNS ¹
TETCO	Enertech Global LLC	Commercial Series, TZT 024-072	Water-source geothermal HP	2-6	24.851-72.279	ECM	Variable	Scroll	Two	4.4-6.2 WLHP ²	MDNS ¹	MDNS ¹	15.6-21.3 WLHP ²	Stocked; just-in-time; contact distrib.	MDNS ¹	MDNS ¹
The Whalen Co.	The Whalen Co.	Whisperpack	Water-source HP	0.5-3	6.4-32.6	ECM	Variable	Scroll; reciprocating	Single	MDNS ¹	MDNS ¹	MDNS ¹	11.24 (heat); 15.7 (cool)	Just-in-time; contact distrib.	No	MDNS ¹
The Whalen Co.	The Whalen Co.	WRX	Fan coil	0.75-3	11.5-49	PSC; ECM	Variable	MDNS ¹	Single	MDNS ¹	MDNS ¹	MDNS ¹	MDNS ¹	Contact distrib.	No	MDNS ¹
Trane	Trane, an Ingersoll Rand brand	Precedent eFlex	Rooftop unit	3-5	36-60	ECM	Variable	Scroll	Modulating	MDNS ¹	MDNS ¹	18.4-20.1	12.5-13.6	Just-in-time	Yes	81-87
Trane	Trane, an Ingersoll Rand brand	Sintesis, RTAF	Air-cooled chiller	115-500	MDNS ¹	ECM	Variable	Rotary	Modulating	MDNS ¹	MDNS ¹	MDNS ¹	10.3-10.7	Stocked	No	98-106
Unico System	Unico Inc.	IS18G050 iSeries G-50	Inverter HP	1.5	16.8-20.2	ECM (with SDHV)	Variable	Inverter	Modulating	3.8	7.2	16.5	7.35	Stocked	No	47
Waterfurnace	Waterfurnace Intl. Inc.	Envision 30	Water-source HP	30	360	ECM	Variable	Scroll	Two	3.2-3.4	MDNS ¹	MDNS ¹	13.1-13.8	Stocked; just-in-time; contact distrib.	Yes	MDNS ¹
Yanmar America Corp.	Yanmar America Corp.	NNCP096J, NNCP120J, NNCP144JN, NNCP168JN, NFZP168JN	Gas HP	8-14	96-144	PSC	Variable	Scroll	Modulating	3.63-4.08	MDNS ¹	MDNS ¹	14.5-15.9	Stocked	No	57-58
¹ Manufacturer did not specify																
² Water loop heat pump																
³ When matched with non-ducted indoor units																