

Comprehensive HVAC System Specifications and Performance Metrics															
Brand	Company	Model	Type	Unit Size (In Tons)	Cooling Capacity (MBtuh)	Motor Technology	Motor Speed	Compressor Technology	Stages	COP	HSPF	SEER	EER	Refrigerant	Economizers Available
AAON	AAON	EcoFit	WSHP4	.5-12.5	6-150	PSC, ECM	Fixed, Variable	Scroll, Rotary	Single, Two	Up to 6	N/A	N/A	Up to 27	R-410A	Yes
AAON	AAON	ProFit	WSHP4	.5-5	6-60	PSC, ECM	Fixed	Scroll, Rotary	Single	Up to 5	N/A	N/A	Up to 23	R-410A	No
Addison	Addison	PR Series	DOAS	20-140	240-1,680	ECM, Shaded Pole	Lead Circuit Variable	Scroll	Modulating	Varies	N/A	N/A	N/A	R-410A	Yes
Airquest	International Comfort Products	PGR5 QuietComfort 16	Pkg. gas/elec. rooftop	2-5	23-57	ECM	Fixed	Scroll	Two	N/A	N/A	Up to 16	Up to 12.5	R-410A	Yes
Airquest	International Comfort Products	RGH 181-303	Pkg. gas/elec. rooftop	15-25	174-282	PSC	Fixed	Scroll	Two	N/A	N/A	N/A	10.5-12	R-410A	Yes
Allied Commercial	Allied Air Enterprises	MagicPak All-In-One V-Series HWC, EWC	Pkg. rooftop	1-2.5	12-27	Variable Speed, Constant Torque	Up to 1,200 rpm1	N/A	Single, Two	N/A	N/A	12-13	Not rated	R-410A	N/A
Allied Commercial	Allied Air Enterprises	Q-Series QGA, QCA, QHA	Pkg. rooftop	3-5	34-57	PSC	Five-speed taps	Scroll	Single	3.7	6.95-8	14+	11.5	R-410A	N/A
Arcoaire	International Comfort Products	RGH 181-303	Pkg. gas/elec. rooftop	15-25	174-282	PSC	Fixed	Scroll	Two	N/A	N/A	N/A	10.5-12	R-410A	Yes
Arcoaire	International Comfort Products	RHV036-072	Pkg. rooftop HP	3-6	36-72	ECM	Variable	Scroll	Single, Two	Up to 3.8	8.2	Up to 14.32	Up to 11.8	R-410A	Yes
Bard	Bard Mfg. Co.	MEGA-TEC	Air conditioner	15	Up to 248.2	ECM	Variable	Scroll	Three3	N/A	N/A	N/A	10 EER/12.6 IPLV	R-410A	Yes
Bosch	Bosch Thermotechnology Corp.	QV Series	Water-to-air HP	2-5	24.55	ECM	Variable	Scroll	Single	4.85	N/A4	N/A4	15	R-410A	Yes
Carrier	Carrier	WeatherExpert 48/50LC-VAV	Pkg. rooftop	6-23	72-276	N/A	Variable	Scroll	Modulating	N/A	N/A	Up to 21 IEER	N/A	R-410A	Yes
Carrier	Carrier	WeatherMaker 48FC	Pkg. gas/elec. rooftop	7.5-12.5	90-150	ECM	Variable	Scroll	Two	N/A	N/A	15 IEER	N/A	R-410A	Yes
Comfort-Aire / Century	MARS/Heat Controller	HBH/HBV006-HBH/HBV060	Boiler or WSHP4	.5-5	6-60	PSC, ECM	Fixed, Variable	Scroll	Single	4.3-5	N/A	N/A	N/A	N/A	N/A
Comfortmaker	International Comfort Products	CHS 072-121	Split-system HP	6-10	70-112	PSC	Fixed	Scroll	Single, Two	Up to 3.3	N/A	N/A	Up to 11	R-410A	Yes
Comfortmaker	International Comfort Products	RGW 036-060	Pkg. gas/elec. rooftop	3-5	35.2-60	ECM	Variable	Scroll	Two	N/A	N/A	16.1	12	R-410A	Yes
Daikin Applied	Daikin Applied	Magnitude WME	Chiller	400-1,600	400-1,600 tons	Permanent Magnet5	Variable	N/A	Single	0.52 kW/ton6	N/A	N/A	N/A	R-134a, R-513A	No
Daikin Commercial Unitary	Daikin Comfort Technologies North America Inc.	DBG/H Series s	Air conditioner or HP	3-25	35-240	ECM	Fixed	Scroll	Single, Two	Up to 3.5	Up to 8	Up to 14	Up to 11.5	R-410A	Yes
Daikin Commercial Unitary	Daikin Comfort Technologies North America Inc.	DRG/H Series	Air conditioner or HP	3-12.5	36-137	ECM	Variable7	Scroll	Single	Up to 4	Up to 8.2	Up to 17.1	Up to 13	R-410A	Yes
Daikin Commercial VRV	Daikin Comfort Technologies North America Inc.	EMERION, REYQ	Split-system VRV heat recovery	6-20 (single); 22-40 (dual)	69-456	N/A	Variable	Inverter	Variable Inverter	N/A	N/A	N/A	Up to 30 IEER	R-410A	N/A
Daikin Commercial VRV	Daikin Comfort Technologies North America Inc.	T-Series	Split-system water-cooled HP or heat recovery	8, 10, 0128	69-252	DC Motor	Variable	Inverter	Variable Inverter	Up to 6.27	Up to 26.3 SCHE	N/A	Up to 26.3 IEER	R-410A	N/A
Day & Night	International Comfort Products	RAH 073	Pkg. rooftop a/c	6	72	PSC	Fixed, Variable	Scroll	Two	N/A	N/A	N/A	12.2	R-410A	Yes
Day & Night	International Comfort Products	RAW 036-060	Pkg. rooftop a/c	3-5	35.2-60	ECM	Variable	Scroll	Two	N/A	N/A	16.1	12	R-410A	Yes
First Co.	First Co.	WSV6	WSHP4	.75-10	9-120	ECM	Fixed	Scroll, Rotary	Single	4.5-5	N/A	N/A	16	R-410A	No
Friedrich Air Conditioning	Friedrich Air Conditioning	FreshAire, PVH09	PTAC	.75-9	6.5-12.1	PSC	Variable	Inverter	Modulating	3.51	N/A	Not rated9	12.1	R-410A	No
Friedrich Air Conditioning	Friedrich Air Conditioning	VRP Studio, VRP07	Heat pump	0.75	3.8-10	ECM, BLDC	Variable	Inverter	Modulating	3.3	8.6	15.5	11	R-410A	No
Fujitsu General America Inc.	Fujitsu General America Inc.	Airstage J-IV Series	Heat pump	3, 4, 2005	36, 48, 60	ECM	Variable	Rotary, Inverter	Modulating	Up to 3.88	Up to 11.5	Up to 19.8	Up to 13.3	R-410A	No
Greenheck	Greenheck	RV/RVE Series	DOAS or pkg. rooftop	3-70	N/A	PSC, ECM10	Variable	Scroll, Inverter	Modulating	Up to 3.55 (air-source HP)	N/A	Up to 19.2	Up to 13.4	R-410A	Yes
Heil	International Comfort Products	PGR5 QuietComfort 16	Pkg. gas/elec. rooftop	2-5	23-57	ECM	Fixed	Scroll	Two	N/A	N/A	Up to 16	Up to 12.5	R-410A	Yes
Heil	International Comfort Products	RGH 181-303	Pkg. gas/elec. rooftop	15-25	174-282	PSC	Fixed	Scroll	Two	N/A	N/A	N/A	10.5-12	R-410A	Yes
ICP Commercial	International Comfort Products	CHS 180-240	Split-system HP	15-20	178-222	PSC	Fixed	Scroll	Two	Up to 3.5	N/A	N/A	Up to 10.7	R-410A	Yes
ICP Commercial	International Comfort Products	RGV 036-072	Pkg. gas/elec. rooftop	3-6	34.4-70	ECM	Variable	Scroll	Single, Two	N/A	N/A	Up to 14 (single)	Up to 11.6 (single); up to 11.2 (two)	R-410A	Yes
Johnson Controls	Johnson Controls	Choice	Heat pump	12.5-20	Up to 240	Inverter11	Constant Volume or Intelli-Speed12	Scroll	Two	3.3	N/A	Up to 14 IEER	Up to 10.9	R-410A	Yes
Johnson Controls	Johnson Controls	Premier	Air conditioner	25-80	300-960	AC Frame	Fixed, Variable	Scroll, Inverter	Modulating13	N/A	N/A	Up To 16.9 IEER	Up to 11.4	R-410A	Yes
KeepRite	International Comfort Products	PHR5 QuietComfort 15	Pkg. HP	2-5	23-57	ECM	Fixed	Scroll	Two	Up to 3.9	Up to 8.5	Up to 15.5	Up to 12.5	R-410A	Yes
KeepRite	International Comfort Products	RAV 036-072	Pkg. rooftop a/c	3-6	34.4-70	ECM	Fixed, Variable14	Scroll	Single, Two15	N/A	N/A	Up to 14 (single)	Up to 11.8 (single); up to 11.2 (two)	R-410A	Yes
Lennox Commercial	Lennox Commercial	ML14XC1 Merit	Small-split a/c	3-5	31-58	PSC	Fixed	Scroll	Single	N/A	N/A	Up to 16	Up to 13	R-410A	No
Lennox Commercial	Lennox Commercial	Model L, LGM, LCM	Pkg. rooftop	3-25	36-270	ECM	Variable	Inverter	Modulating	N/A	N/A	22.5	15	R-410A	Yes
LG Electronics	LG Electronics	ACHH017H(V)BAB16	Heat pump chiller	20, 40, 6017	N/A	BLDC	Variable	Inverter	20%-100%	1.96-3.6519	N/A	N/A	.62 kW/ton part load	R-410A	No
Mitsubishi Electric Trane HVAC US (METUS)	Mitsubishi Electric Trane HVAC US (METUS)	P-Series PKA	Wall-mounted indoor unit	1-3	12-36	ECM	Variable	Inverter	Modulating	Up to 4.52	Up to 11.2	Up to 21.4	Up to 13.3	R-410A	No
Modine	Modine Mfg.	Cooling cassette	Air conditioner	.5-3	8-36	PSC	Fixed	N/A	N/A	N/A	N/A	N/A	N/A	R-410A	No
Nortek Air Solutions	Nortek Air Solutions	FANWALL	Air handler, replacement fans	1,000-400,000+ cfm	N/A	ECM, Shaded Pole, Induction, Permanent Magnet	Fixed, Variable	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Yes
Rheem Mfg.	Rheem Mfg.	Renaissance, RGEG2T RAC-G2T	Air conditioner	15-25	177.5-298.5	ECM	Variable	Scroll	Two	N/A	N/A	N/A	N/A	R-410A	Yes
Samsung	Samsung HVAC America	AM***AXVAFH/AA	Heat pump	N/A	N/A	BLDC	Variable	Inverter	Modulating	N/A	N/A	N/A	N/A	R-410A	No
SpacePak	SpacePak Inc.	Solstice Inverter Mono-Block, SIM-060	Air-to-water HP	5	59.5	ECM	Variable	Inverter	Modulating	4.67	N/A	N/A	Up to 11.6	R-410A	No
TempMaster	Johnson Controls	Omni Choice	Rooftop HP	12.5-20	Up to 240	Inverter11	Constant Volume or Intelli-Speed12	Scroll	Two	3.3	N/A	Up to 14 IEER	Up to 10.9	R-410A	Yes
TempMaster	Johnson Controls	Omni Premier	Rooftop a/c	25-80	300-960	AC Frame	Fixed, Variable	Scroll, Inverter	Modulating13	N/A	N/A	Up to 16.9 IEER	Up to 11.4	R-410A	Yes
Tempstar	International Comfort Products	RAH 073	Pkg. rooftop a/c	6	72	PSC	Fixed, Variable	Scroll	Two	N/A	N/A	N/A	12.2	R-410A	Yes
Tempstar	International Comfort Products	RAW 036-060	Pkg. rooftop a/c	3-5	35.2-60	ECM	Variable	Scroll	Two	N/A	N/A	16.1	12	R-410A	Yes
Trane	Trane	Ascend, ACR	Chiller	150-550	N/A	ECM	Variable	Rotary, Inverter	Modulating	N/A	N/A	N/A	Up to 12.122	R-134a	Yes
Trane	Trane	IntelliPak 1	Pkg. rooftop	20-130	240-1,560	ECM23	Fixed, Variable	Scroll, Inverter	Single, Two, Modulating	N/A	N/A	Up to 18.5 IEER	N/A	R-410A	Yes
The Whalen Co.	The Whalen Co.	Closetline CAS Series	Pkg. WSHP4	.5-6	6-72	ECM	Fixed	Scroll, Reciprocating, Rotary	Single	5.6	N/A	N/A	17	R-410A	Yes
YORK	Johnson Controls	Sun Choice	Rooftop HP	12.5-20	Up to 240	Inverter11	Constant Volume or Intelli-Speed12	Scroll	Two	3.3	N/A	Up to 14 IEER	Up to 10.9	R-410A	Yes
YORK	Johnson Controls	Sun Premier	Rooftop a/c	25-80	300-960	AC Frame	Fixed, Variable	Scroll, Inverter	Modulating13	N/A	N/A	Up to 16.9 IEER	Up to 11.4	R-410A	Yes
YORK	Johnson Controls	YVAA	Chiller	150-575 TR	1.8-6.9	ECM	Variable	Rotary	Single	22+ IPLV20	N/A	5.5+21	3.5+21	R-134a or R-513a	Yes
<sup>1</sup> Outdoor fan up to 1,200 rpm and indoor blower with 945 cfm. <sup>2</sup> 3 to 5 tons. <sup>3</sup> One-stage compressor and two-stage compressor for a total of three stages of cooling. <sup>4</sup> Water-source heat pump (WSHP). <sup>5</sup> Magnetic bearing technology. <sup>6</sup> 0.52 kW/ton at full load efficiency, AHRl conditions and 0.30 kW/ton at IPLV part load efficiency. <sup>7</sup> Variable, standard, medium and high static options. <sup>8</sup> Manifold together up to three units for up to 36 tons. <sup>9</sup> 1.5 equivalent (not rated). <sup>10</sup> ECM--condenser fan only. <sup>11</sup> Inverter-rated motor with IntelliSpeed (discrete fan control). <sup>12</sup> Discrete fan control.		<sup>13</sup> Premier on-off compressors supply 7+ steps of staging. <sup>14</sup> The 072 model has a variable motor speed. <sup>15</sup> The 072 model has two compressor stages. <sup>16</sup> ACHH017H(V)BAB, ACHH020H(V)BAB, ACHH033H(V)BAB, ACHH040H(V)BAB, ACHH050H(V)BAB, ACHH060H(V)BAB. (H=460V and V=208-230V)		<sup>17</sup> Three nominal frame sizes: 20, 40 and 60. Internal controls support up to five frames connected together, allowing up to 300 tons or more with custom controls. <sup>18</sup> Run profile from 20% to 100% or capacity at a 4° to 20°F Delta between entering and leaving water in cooling and heating modes. <sup>19</sup> 105°F LWT @ 47°F= 3.59 to 6.05; 105°F LWT @ 17°F = 2.16 to 2.22 COP; 120°F LWT @ 47°F = 3.10 to 3.15 COP; 120°F LWT @ 17°F = 1.96 to 2.01 COP				<sup>20</sup> At AHRl condition IPLV values of 22 and beyond, full load EER values of 12.75 and beyond. At higher ambient conditions, NPLV values 19 and beyond, full load EER values of 9.5 and beyond. <sup>21</sup> At Eurovent condition. <sup>22</sup> Full-load EER; up to 21.6 IPLV. <sup>23</sup> High-efficiency unit and eFlex™ variable-speed compressor options.							