



SLIM 24

Heat Pump Central System

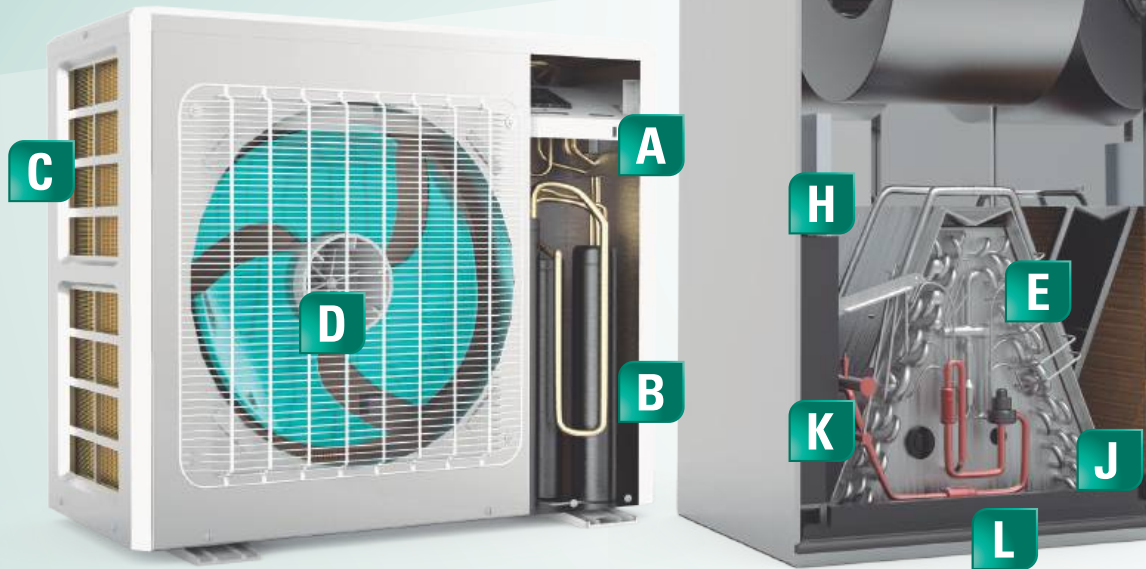


Slim Outdoor Unit Air Handler Any Thermostat



- Up to 20 SEER AHRI, NEEP and UL Rated
- 35% energy savings achieved by advanced inverter technology
- Slim design side-discharge condenser for smaller foot print
- Low ambient operation temperature at 5°F
- Can be matched with most brands air handler and A coil
- 24V control allows compatibility with most third party branded thermostats
- Electrical Heating belt for compressor
- Gold-Fin condenser protection
- Self-diagnostic
- Outdoor sound level as low as 56 dBA
- Multi-positional flexibility for air handler
- Static pressure will adjust automatically
- Dedicated wiring port for UV Light and humidifier (neither included)
- Thermostat included





- A** Smart control board helps adjust output capacity allowing the unit to maintain temperature at set level and helps control humidity during summer months. Improves performance and comfort automatically.
- B** Inverter technology compressor with EEV valve helps to operate at high efficiency levels during heating mode. Can operate outside temperatures as low as 5°F.
- C** Gold-Fin copper coil helps fight against corrosion in harsh environments. Thin design allows for installation in compact areas.
- D** Variable speed outdoor DC motor operates efficiently depending on requirements. Fan blade designs allows for quiet operation.
- E** Aluminum coil allows efficiency heat transfer, humidity removal, and easy maintenance. The EEV valve helps to operate at high efficiency levels during cooling mode.
- F** DC Motor allows for quiet operation while performing at efficiency levels controlling humidity.
- G** Can accommodate electric heat with no modification and easy access installation.
- H** Flare connection for easy access when soldering is not possible. Solder adapters included.
- I** Smart control board with easy access. Allows for quicker maintenance.
- J** Integrated drain pan made from corrosion-resistant composite material to help eliminate standing water.
- K** Multi-Positional drain pan flexible for vertical or horizontal applications.
- L** Easy access filter-track.

Indoor Model			DEV18H2R19	DEV24H2R19	DEV30H2R19	DEV36H2R19	DEV48H2R19	DEV60H2R19
Power supply	Rated	V,Ph,Hz	208/230, 1, 60	208/230, 1, 60	208/230, 1, 60	208/230, 1, 60	208/230, 1, 60	208/230, 1, 60
	Voltage range	V	187-253	187-253	187-253	187-253	187-253	187-253
Cooling	Rated Capacity (range)	Btu/h	18000(5350~18700)	24000(7500~26000)	30000(9482~33000)	36000(7700~38900)	47000(10500~48000)	57000(4395~60200)
	Input power	W	1620	2120	2760	3750	5046	5644
	Rated current	A	7.5	9.7	12.20	15.82	21.9	23.8
	EER	Btu/w	11.1	11.3	10.9	10.4	9.3	10.3
	SEER	Btu/w	19	19.4	19.5	18	17.3	18
	Heating at 47°F	Rated Capacity (range)	Btu/h	18000(5600~18700)	26000(5600~30000)	31000(12200~32000)	36000(6000~36400)	55000(11700~57000)
Heating at 47°F	Input power	W	1510	2150	2850	3496	5373	4959
	Rated current	A	6.7	9.8	12.40	16.12	23.3	20.9
	COP	W/W	3.49	3.54	3.19	3.02	3.00	3.55
	HSPF4	Btu/w	10.8	11.3	10.3	9.1	10	9.2
	HSPF5	Btu/w	8.8	9.2	8.6	7.1	8.2	7.6
	Heating at 5°F(-15°C)	Capacity	Btu/h	9550	17000	20000	18600	27000
Heating at 5°F(-15°C)	COP	W/W	1.85	1.75	1.95	1.80	1.75	1.80
	Minimum circuit ampacity	A	3,0	4,0	4,5	4,5	4,5	7,0
Max Fuse	A	15,0	15,0	15,0	15,0	15,0	15,0	
Indoor fan motor	Model		ZKFD-250-8-1	ZKFD-250-8-1	ZKFD-375-8-1	ZKFD-375-8-1	ZKFD-560-8-1	ZKFD-750-8-1
	Qty.		1	1	1	1	1	1
	Output power	HP	1/3	1/3	1/2	1/2	3/4	1
Indoor air flow (Hi/Mi/Lo)	CFM	576.47 / 529.41 / 488.24	758.82 / 694.12 / 629.41	894.12 / 805.88 / 711.76	1082.35 / 970.59 / 864.71	1282.35 / 1094.12 / 905.88	1582.35 / 1358.82 / 1135.29	
Indoor noise level (Hi/Mi/Lo)	dB(A)	36 / 34 / 32	43 / 40.5 / 35	43 / 40 / 30.5	46.8 / 44 / 41.3	53 / 50 / 46	52.5 / 49 / 44	
External Static Pressure (ESP)	Rated	In. wc.	0,1	0,1	0,15	0,15	0,2	0,2
	Range	In. wc.	0-0.8	0-0.8	0-0.8	0-0.8	0-0.8	0-0.8
Throttle type			EEV for Cooling	EEV for Cooling	EEV for Cooling	EEV for Cooling	EEV for Cooling	EEV for Cooling
Indoor unit	Dimension (WxDxH)	inch	21 x 17 ½ x 45	21 x 17 ½ x 45	21 x 21 x 49	21 x 21 x 49	21 x 21 x 49	21 x 24 ½ x 53
	Net weight	lbs.	106	106	129	129	131	163
Refrigerant piping	Liquid side/Gas side	inch	3/8" / 3/4"	3/8" / 3/4"	3/8" / 3/4"	3/8" / 3/4"	3/8" / 3/4"	3/8" / 7/8"
Drainage water pipe diameter		inch	3/4	3/4	3/4	3/4	3/4	3/4
Connection wiring			14AWG*2 Stranded, shielded	14AWG*2 Stranded, shielded	14AWG*2 Stranded, shielded	14AWG*2 Stranded, shielded	14AWG*2 Stranded, shielded	14AWG*2 Stranded, shielded
Room temperature	Cooling	°F	60~90	60~90	60~90	60~90	60~90	60~90
	Heating	°F	32~86	32~86	32~86	32~86	32~86	32~86
Application area (cooling Standard)		sq.ft	260 ~375	345 ~505	430 ~ 635	515 ~ 755	690 ~ 1015	820 ~ 1195



Flexible Design

Evaporator coil can be easily pulled out and configured according to the need of multiple position installation.



Simple Wiring

Only 2 integrated control boards with simple wiring. One main control board and one function board for 24V thermostat, dip switch, and error code display



Easy Maintenance

Removal of only 1 panel for access to electrical heating kit. Easy and effortless access to take out the fan assembly for quicker maintenance.



Outdoor Model			SEV18H2R19	SEV24H2R19	SEV30H2R19	SEV36H2R19	SEV48H2R19	SEV60H2R19
Power supply	Rated	V,Ph,HZ	208/230, 1, 60	208/230, 1, 60	208/230, 1, 60	208/230, 1, 60	208/230, 1, 60	208/230, 1, 60
	Voltage range	V	187-253	187-253	187-253	187-253	187-253	187-253
Minimum circuit ampacity		A	16,0	19,0	20,0	24,0	34,0	34,0
Max Fuse		A	20,0	30,0	35,0	40,0	50,0	60,0
Compressor	Type		ROTARY	Twin-ROTARY	ROTARY	ROTARY	ROTARY	ROTARY
	Brand		GMCC	GMCC	GMCC	GMCC	GMCC	GMCC
	Model		KSN140D21UFZ	KTM240D57UMT	KTF250D22UMT	KTF250D22UMT	KTQ420D1UMU	KTQ420D1UMU
	Input power	W	1085	1945	2080	2080	3420	3420
Outdoor fan motor	Model		ZKFN-34-10-1-3	ZKFN-80-8-3	ZKFN-120-8-2	ZKFN-120-8-2	ZKFN-85-8-22-5	ZKFN-85-8-22-5
	Qty.		1	1	1	1	2	2
	Output power	HP	1/16	1/10	1/6	1/6	1/9	1/9
Outdoor air flow (Max.)		CFM	1450	1765	3000	2235	4500	4500
Outdoor noise level (Sound pressure)		dB(A)	54	56.5	61.5	61	59	61
Throttle type			EEV for Heating	EEV for Heating	EEV for Heating	EEV for Heating	EEV for Heating	EEV for Heating
Outdoor unit	Dimension (WxDxH)	inch	31 ¾ x 13 x 21 ¾	35 x 13 ½ x 26 ½	37 ¼ x 16 ¼ x 32	37 ¼ x 16 ¼ x 32	37 ½ x 16 ½ x 52 ½	37 ½ x 16 ½ x 52 ½
	Net weight	lbs.	76	102	142	152	218	218
Refrigerant	Type/Charged	oz	R410A/56.44	R410A/74.08	R410A/107.59	R410A/130.51	R410A/165.79	R410A/172.84
Refrigerant precharge		ft	25	25	25	25	25	25
Additional charge		oz/ft	0.69	0.69	0.69	0.69	0.69	0.69
Design pressure		PSIG	550/340	550/340	550/340	550/340	550/340	550/340
Refrigerant piping	inch		3/8" / 3/4"	3/8" / 3/4"	3/8" / 3/4"	3/8" / 3/4"	3/8" / 3/4"	3/8" / 7/8"
	ft		98	164	213	213	213	213
	ft		66	82	98	98	98	98
Ambient temperature	Cooling	°F	5~122	5~122	5~122	5~122	5~122	5~122
	Heating	°F	5~75	5~75	5~75	5~75	5~75	5~75
Qty. per 20'/40'/40' HQ	Outdoor unit		114/234/312	99/198/198	44/96/144	44/96/144	22/48/48	22/48/48



Inverter Technology

Latest inverter technology for higher performance and efficient performance. Quieter operation than traditional systems with longer reliability.



Flexible Compatibility

Can be installed with Innovair's matching air handler or most other brand air handlers and coils for replacement.



Slim Design

Lesser footprint required for flexible installation in tight places.

