HIGH EFFICIENCY

SmartThinQ™

LS090HSV5
LS120HSV5
LS180HSV5

Specification		Unit	LS090HSV5	LS120HSV5	LS180HSV5
	Indoor Unit		LSN090HSV5	LSN120HSV5	LSN180HSV5
	Outdoor Unit		LSU090HSV5	LSU120HSV5	LSU180HSV5
Capacity1,2	Rated Cooling Capacity	Btu/h	9,000	12,000	18,000
	Cooling Capacity Range	Btu/h	1,023 ~ 12,625	1,023 ~ 13,785	3,070 ~ 29,515
	Rated Heating Capacity	Btu/h	10,900	13,600	21,600
	Heating Capacity Range	Btu/h	1,023 ~ 17,061	1,023 ~ 22,178	3,070 ~ 38,898
	Max Heating Capacity at 17°F	Btu/h	11,080	13,810	22,340
	Max Heating Capacity at 5°F	Btu/h	9,570	11,930	19,300
	Max Heating Capacity at -4°F	Btu/h	8,310	10,360	16,760
	SEER, EER	Btu/h	23.5, 14.52	22.7, 12.5	21.5, 12.58
	HSPF		11.3	11.4	10.2
Power	Voltage (IDU)	V- Ø - Hz	208/230-1-60	208/230-1-60	208/230-1-60
	Voltage (ODU)	V- Ø - Hz	208/230-1-60	208/230-1-60	208/230-1-60
	Cooling Power Input	kW	0.62	0.96	1.43
	Heating Power Input	kW	0.71	1.04	1.73
	MCA, MOCP	A	10, 15	10, 15	13, 20
	Power/Communication Wiring[3]	No. x AWG	4 x 18	4 x 18	4 x 18
	Rated Amps (Cool/Heat)	A	7.4/7.4	7.4/7.4	9.85/9.85
Operation Range	Heating Operation Range	°F WB	-4 - 65	-4 - 65	-4 - 65
	Cooling Operation Range	°F DB	14 - 118	14 - 118	14 - 118
	Optional Wind Baffle[4]		ZLABGP01A (0°F)	ZLABGP01A (0°F)	ZLABGP02A (0°F)
	IDU Operation Range Cooling	°F	53 - 75	53 - 75	53 - 75
	IDU Operation Range Heating	°F	60 - 86	60 - 86	60 - 86
	Setpoint Range Cooling	°F	64 - 86	64 - 86	64 - 86
	Setpoint Range Heating	°F	60 - 86	60 - 86	60 - 86
Dimensions	IDU Dimensions (WxHxD)	in	32-15/16 x 12-1/8 x 7-7/16	32-15/16 x 12-1/8 x 7-7/16	39-9/32 x 13-19/32 x 8-9/32
	ODU Dimensions (WxHxD)	in	30-5/16 x 21-1/2 x 11-5/16	30-5/16 x 21-1/2 x 11-5/16	34-1/4 x 31-1/2 x 12-19/32
Weight	IDU Weight (Net/Shipping)	lbs	18.3 / 23.4	18.3 / 23.4	25.6 / 32.2
	ODU Weight (Net/Shipping)	lbs	74.1 / 78.9	74.1 / 78.9	116.8 / 126.5
Unit Data	Airflow (Max/H/M/L)[5]	CFM	459 / 338 / 317 / 194	459 / 338 / 317 / 194	706 / 530 / 477 / 371
	Dehumidification	pts/hr	2.7	2.7	5.5
	Compressor Type		Twin Rotary	Twin Rotary	Twin Rotary
	Refrigerant Type		R410A	R410A	R410A
Sound Pressure[6]	Indoor (H/M/L/SL)	dB(A)	39 / 33 / 23 / 19	39 / 33 / 23 / 19	45 / 40 / 35 / 29
	Outdoor Max	dB(A)	48	48	53
Piping[7]	Liquid Line	in	1/4	1/4	3/8
	Suction Line	in	3/8	3/8	5/8
	Pipe Length (Min/Max)	ft	9.8 / 82	9.8 / 82	9.8 / 114.8
	Max Pipe Elevation	ft	49.2	49.2	49.2
	Precharge Pipe Length	ft	41	41	24.6
	Additional Refrigerant	oz/ft	0.22	0.22	0.38
	Drain (OD, ID)	in	27/32, 5/8	27/32, 5/8	27/32, 5/8
Controller	Supplied		AKB74955602	AKB74955602	AKB74955602

Note:
1. Rated capacity at 0 ft. above sea level with 25 ft. of refrigerant line and a 0 ft. level difference between outdoor and indoor unit.
2. Rated cooling capacity obtained with air entering the indoor unit at 80°F dry bulb (DB) and 67°F wet bulb (WB) and outdoor ambient conditions of 95°F dry bulb (DB) and 75°F wet bulb (WB).
Rated heating capacity obtained with air entering the indoor unit at 70°F dry bulb (DB) and 60°F wet bulb (WB) and outdoor ambient conditions of 47°F dry bulb (DB) and 43°F wet bulb (WB).
For capacity information, see engineering manual capacity tables.
3. All power/communication wiring minimum 4-conductor, stranded, shielded, and must comply with applicable local and national codes.
4. Installation of an optional Low Ambient Wind Baffle Kit will allow operation down to 0°F in cooling mode for applicable outdoor units.
5. Airflow shown is in cooling mode.
6. Sound pressure levels are tested in an anechoic chamber under ISO Standard 3745 and are the same in both cooling and heating mode. These values can increase due to ambient conditions during operation.
7. Piping lengths are equivalent.
8. Due to our commitment to continued innovation, some specifications may be changed without notification.