

CATALOG MINI SPLIT AIR CONDITIONERS





Wall Mounted Splits System

				115V~ 6	0Hz, 1Ph	208-230V~	-60Hz ,1Ph					
Model	Appearance	Туре	Average SEER	9,000 BTU/h	12,000 BTU/h	18000 BTU/h	24000 BTU/h	28000 BTU/h	30000 BTU/h	36000 BTU/h	48000 BTU/h	Page
LETO SERIES		DC Inverter	19	•	•	•	•					

208-230V~ 60Hz, 1Ph												
Model	Appearance	Туре	Average SEER	9,000 BTU/h	12,000 BTU/h	18000 BTU/h	24000 BTU/h	28000 BTU/h	30000 BTU/h	36000 BTU/h	48000 BTU/h	Page
AURA SERIES		DC Inverter	16~25	•	•	•	•		•	•		

				208-230V~ 60Hz, 1Ph								
Model	Appearance	Туре	Average SEER	9,000 BTU/h	12,000 BTU/h	18000 BTU/h	24000 BTU/h	28000 BTU/h	30000 BTU/h	36000 BTU/h	48000 BTU/h	Page
AURA OUTDOOR		DC Inverter	16~25	•	•	•	•		•	•		
SLIM CEILING CASSETTE		DC Inverter	20.0~21.5	•	•	•	•			•	•	
FLOOR & CEILING MOUNT		DC Inverter	20.0~25.0	•	•	•	•					
CONCEALED DUCT RECESSED		DC Inverter	16.0~20.0			•	•			•	•	
MULTI-ROOM		DC Inverter	22.4~23.0			•	•	•		•	•	



OUTSTANDING FEATURES



DC Inverter + System with High EfficiencyDC Inverter driven, variable speed compressor provides hig energy efficiency with powerful cooling performance, System refrigeration capacity is continually and adjusted to meet the exact load demand for any moment.

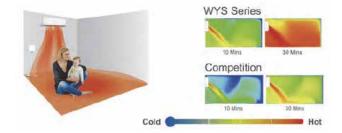


Wifi Remote Access Module (Optional)
Simply purchase and insert a USB WiFi module to access, monitor, change and fully control your system from anywhere in the world using your smarthphone.





High Performance Rapid HeatingSuperior heat efficiencies and high volume, yet whisper quiet fans provide for rapid and total achievement of the desired temperatures in living spaces even under extreme outdoor weather conditions.



Vacation (Low Heat) Mode

Available vacation mode keeps your home above freezing point, using very little amount of energy during any unoccupied periods, to avoid frist damage to the mechanical structures and the contents.



LETO SERIES SPECIFICATIONS

System Model	Indoor	SENL-09CD / 1	12 CD / 1	18 CD / 1	24 CD / 1
Model	Outdoor	SENL-09CD / O	12 CD / O	18 CD / O	24 CD / O
Model		SENL-09CD / X	12 CD / X	18 CD / X	24 CD / X
PERFORMANCE DATA					
Power Supply	V-Hz-Ph	115V~ 60Hz ,1Ph	115V~ 60Hz ,1Ph	208-230V~60Hz ,1Ph	208-230V~60Hz ,1Ph
Cooling Rated Capacity	BTU/h	9000	12000	18000	24000
Cooling Capacity Range	BTU/h	7.8	11.0	8.7	11.6
Cooling SEER	BTU/h	15	15	15	15
Heating Rated Capacity	BTU/h	9000	12000	18000	24000
Heating Capacity Range	BTU/h	8.2	10.2	8.8	10.9
Heating HSPF4	BTU/h	8.5	8.5	8.5	8.5
Refrigerant Type	g	R410A/799g	R410A/961g	R410A/1500g	R410A/1800g
Suitable Area	sq.ft	129-189	172-252	251-368	330-484
INDOOR UNIT DATA					
Air Flow Volume	CFM	280/250/190	340/290/240	440/390/280	740/680/560
Sound Pressure Level	dB(A)	39/35/29	39/35/29	42/39/31	49/45/39
Net Dimensions (WDH)	inch	28.15x11.22x7.64	31.69x11.22x7.64	37.68x11.89x8.39	40.94x12.87x8.66
Carton Dimensions (WDH)	inch	30.71x14.37x10.63	34.25x14.37x10.63	40.16x14.76x11.14	44.29x16.02x11.42
Net / Gross Weight	lbs.	15.4 / 17.6	16.5 / 20.9	19.8 / 25.4	26.5 / 33.1
OUTDOOR UNIT DATA					
Sound Pressure Level	dB(A)	56	54	57.5	59
Net Dimensions (WDH)	inch	30.31x11.81x21.85	30.31x11.81x21.85	31.50x13.11x21.81	33.27x14.29x27.64
Carton Dimensions (WDH)	inch	35.43x13.58x23.03	35.43x13.58x23.03	36.22x15.35x24.21	38.00x15.55x29.72
Net / Gross Weight	lbs.	63.9/69.4	65.0/70.5	80.5/87.1	136.69/147.27



STANDARD FEATURES































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AURA SERIES

OUTSTANDING FEATURES



Energy Star Certified System with Chassis and Compressor Heaters

The base pan and the compressor of the outdoor unit are both equipped with special design electric heaters that come on under extreme cold conditions to speed up defrost cycles and lessen frost buildup while the refrigerant circuit pressures at higher levels.



Top Energy Efficiency Class

Ultra high Seasonal Energy Efficiency Ratios (SEER) for outstanding cooling and Heating Seasonal Performance Factors (HSPF) for heating operations save electrical power and help systems pay themselves in a short period of usage time.



High Capacity Low Ambient Heating

Even under very low outdoor weather temperatures, AURA SERIE produces high amount of heat, due to its highly efficient indoor and outdoor heat exchangers with larger dimensions than most other



Whisper Quiet Operation

For optimal comfort of the users indoors and the neighbors outdoors, the specifically designed variable speed fan motors with matching high performance fans operate quietly, almost without noticing they are on.



AURA SERIE SPECIFICATIONS

System Model	Indoor	SENA-09HF / Z	SENA-12HF / Z	SENA-18HF / Z	SENA-24HF / Z	SENA-30HF / Z	SENA-36HF / Z
Model	Outdoor	SENA-09HF / IZ	SENA-12HF / IZ	SENA-18HF / IZ	SENA-24HF / IZ	SENA-30HF / IZ	SENA-36HF / IZ
Model		SENA-09HF / OZ	SENA-12HF / OZ	SENA-18HF / OZ	SENA-24HF / OZ	SENA-30HF / OZ	SENA-36HF / OZ
PERFORMANCE DATA							
Power Supply	V-Hz-Ph	208-230V~ 60Hz, 1Ph					
Cooling Rated Capacity	BTU/h	9000	12000	17000	24000	30000	36000
Cooling Capacity Range	BTU/h	2.7	4.2	5.95	8.4	11.5	18.5
Cooling SEER	BTU/h	25	22.5	20	20.5	19.8	16
Heating Rated Capacity	BTU/h	10900	11800	18000	24000	30000	36000
Heating Capacity Range	BTU/h	3.6	4.2	7.4	10.9	15.0	18.3
Heating HSPF4	BTU/h	11.2	12	10.3	11.5	9.4	8.5
Refrigerant Type	g	R410A/1500	R410A/1500	R410A/1950	R410A/2600	R410A/2750	R410A/3400
Suitable Area	sq.ft	129-189	172-252	258-376	344-505	431-631	517-757
INDOOR UNIT DATA							
Air Flow Volume	CFM	418/324/247	418/324/247	599/411/353	794/647/500	677/589/471	677/589/471
Sound Pressure Level	dB(A)	42/33/24.5	43/36/24	45.5/36/26.5	47.5 /44/36.5	49/42/37.5	48.5 /44/38
Net Dimensions (WDH)	inch	32.87x7.80x11.02	32.87x7.80x11.02	38.98x8.58x12.40	46.69x10.16x13.39	46.69x10.16x13.39	46.69x10.16x13.39
Carton Dimensions (WDH)	inch	35.83x10.63x13.98	35.83x10.63x13.98	41.93x11.81x15.75	49.80x13.39x16.53	49.80x13.39x16.53	49.80x13.39x16.53
Net / Gross Weight	lbs.	19.84/25.35	19.84/26.68	26.89/34.83	40.12/50.26	40.12/50.26	40.12/50.26
OUTDOOR UNIT DATA							
Sound Pressure Level	dB(A)	55.5	56	57.5	60	59	59
Net Dimensions (WDH)	inch	31.50x13.11x21.81	31.50x13.11x21.81	33.27x14.29x27.64	37.24/16.14/31.89	37.24/16.14/31.89	37.24/16.14/31.89
Carton Dimensions (WDH)	inch	36.22x15.35x24.21	36.22x15.35x24.21	37.99x15.55x29.72	42.91x19.69x34.45	42.91x19.69x34.45	42.91x19.69x34.45
Net / Gross Weight	lbs.	88.2/93.7	88.2/93.7	107.4/115.1	135.58/148.81	136.5/149.5	145.5/158.3

Senville

AURA SERIES ENERGY SAVER



STANDARD FEATURES



COOLING





HEATING LEAKAGE DETECT BELT









HEATING BELT ELECTRICAL BOX LEARNING DEFROST









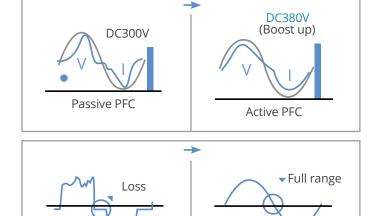
AURA Series Energy Saver

OUTSTANDING FEATURES



Energy Star Certified CompresorDC Inverter driven, variable speed compressor provides high energy efficiency with powerful cooling and heating performance with ultra quiet noise levels, Active PFC technology and Sine Wave power output assures perfect speed control.





Sine wave

Standardized to Match Variety of Indoor UnitsStandardized refrigeration and electronic circuitries allow the same outdoor units to match with a variety of high efficiency indoor units with different designs. Design enhacements create structural strength.



Left Clapboard: Net structure **Front Panel:** Beveled edges

SLIM CEILING CASSETTE SYSTEM









STANDARD FEATURES







































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Rectangle wave

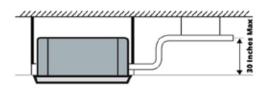
Slim Ceiling Cassette System

OUTSTANDING FEATURES



Built in Drain Pump Standard

Built in pump with float switch removes the condensate water out of the unit efficiently and automatically, with a 30 inch lift capability and quiet performance.



Low Ambient Operation

Equipped with base pan and crankcase heaters that allow the system to perform flawlessly down to -5 F degrees outdoor ambient temperatures in heating mode.



Fresh Air Intake Provision

Fresh air connection knock-out on the body allowers the connection of a small round duct to bring in fresh air from the outside for certain applications, requiring fresh air supply.



Optional Wired Controller

Infrared wireless remote is included as standard accessory. For those that prefer to have a wired thermostat style controller, there is an optional wired version available.



SLIM CEILING CASSETTE SYSTEM SPECIFICATIONS

Indoor Model Outdoor Model		SENA-09HF / IC / Z SENA-09HF / OZ	SENA-12HF / IC / Z	SENA-18HF / IC / Z	SENA-24HF / IC / Z
Outdoor Model		SENA-09HF / OZ			
			SENA-12HF / OZ	SENA-18HF / OZ	SENA-24HF / OZ
PERFORMANCE DATA					
Power Supply	V-Hz-Ph	208~230V, 60Hz, 1Ø	208~230V, 60Hz, 1Ø	208~230V, 60Hz, 1Ø	208~230V, 60Hz, 1Ø
Cooling Rated Capacity	BTU/h	9000	12000	18000	24000
Cooling Capacity Range	BTU/h	3,750~11,800	4,200~17,000	7,500~23,200	7,400~30,800
Cooling SEER	BTU/h	20.0	21.5	20.0	20.0
Heating Rated Capacity	BTU/h	10,000	12,000	18,000	24,400
Heating Capacity Range	BTU/h	3,750~11,800	4,300~17,100	7,500~23,200	7,800~31,240
Heating HSPF	BTU/h	10.5	10.5	10.3	10.5
Refrigerant Type	g	R410a	R410a	R410a	R410a
Suitable Area	sq.ft	250~350	350~450	450~650	650~900
INDOOR UNIT DATA					
Air Flow Volume	CFM	375 / 301 / 257	379 / 309 / 261	560 / 460 / 385	600 / 520 / 450
Sound Pressure Level	dB(A)	41.0 / 37.0 / 33.0	43.0 / 39.0 / 36.0	44.0 / 39.0 / 36.0	51.0 / 47.0 / 43.0
Net Dimensions (WDH)	inch	22.5 x 22.5 x 10.3	22.5 x 22.5 x 10.3	22.5 x 22.5 x 10.3	33.0 / 33.0 / 8.0
Carton Dimensions (WDH)	inch	25.8 x 25.8 x 11.5	25.8 x 25.8 x 11.5	25.8 x 25.8 x 11.5	35.5 x 35.5 x 8.5
Net / Gross Weight	lbs.	32 / 38	35 / 41	36 / 42	47 / 54
PANEL DATA					
Net Dimensions (WDH)	inch	25.5 x 25.5 x 2.0	25.5 x 25.5 x 2.0	25.5 x 25.5 x 2.0	37.5 x 37.5 x 2.0
Carton Dimensions (WDH)	inch	28.0 x 28.0 x 5.0	28.0 x 28.0 x 5.0	28.0 x 28.0 x 5.0	40.8 x 40.8 x 3.5
Net / Gross Weight	lbs.	6 / 10	6 / 10	6 / 10	11 / 18
OUTDOOR UNIT DATA					
Sound Pressure Level	dB(A)	55.5	57.5	61.0	61.0
Net Dimensions (WDH)	Inches	30.3 x 11.8 x 21.8	31.5 x 13.2 x 21.7	33.3 x 14.4 x 27.6	37.2 x 16.5 x 31.8
Carton Dimensions (WDH)	Inches	35.3 x 13.6 x 14.6	36.2 x 15.4 x 24.3	38.0 x 15.5 x 29.7	42.6 x 19.6 x 34.0
Net / Gross Weight	lbs.	64 / 69	81 / 88	101 / 108	137 /147

FLOOR & CEILING MOUNT







STANDARD FEATURES



ANTI-COLD ERROR ALARM

AIR FUNCTION PORT

FRONT DESK

CONTROL



2-WAY DRAINING



TWIN COMBINATION

TIMER



COOLING



LOW AMBIENT EMERGENCY



USING



SLEEP MODE 3D AIR FLOW REFRIGERANT LOUVER POSITION LEAKAGE DETECT MEMORY

LEAKAGE DETECT

FRESH AIR





LOW AMBIENT

HEATING



46°F HEATING





+ &

WIRED CONTROL



BUILD-IN DRAIN PUMP



Floor & Ceiling Mount

OUTSTANDING FEATURES



Easy Maintenance

Most internal components as well as the design of the indoor units across all capacity versions share overwhelmingly same types of components as well as design characteristics for easy maintenance and component supply.



Fresh Air Intake Provision

Fres air connection knock-out on the body allowes the connection of a small round duct to bring in fresh air from the outside, for certain applications requiring fresh air supply.



Turbo Mode

For powerful and rapid performance in both heating and cooling modes, and as well as reaching to the desired temperature levels in a very short period of time.



3-D Air Flow

Air discharge louvers are motorized for both horizontal and vertical movement for automatic sweeping action for true and complete air circulation and high distance coverage in living spaces.



FLOOR & CEILING MOUNT SPECIFICATIONS

System Model	Indoor	SENA-09IF / I	SENA-12IF / I	SENA-18IF / I	SENA-24IF / I
Model	Outdoor	SENA-09HF / OZ	SENA-12HF / OZ	SENA-18HF / OZ	SENA-24HF / OZ
Model		SENA-09IF	SENA-12IF	SENA-18IF	SENA-24IF
PERFORMANCE DATA					
Power Supply	V-Hz-Ph	208-230V~ 60Hz, 1Ph	208-230V~ 60Hz, 1Ph	208-230V~ 60Hz, 1Ph	208-230V~ 60Hz, 1Ph
Cooling Rated Capacity	BTU/h	9000	12000	18000	24000
Cooling Capacity Range	BTU/h	2.7	4.2	5.95	8.4
Cooling SEER	BTU/h	25	22.5	20	20.5
Heating Rated Capacity	BTU/h	10900	11800	18000	24000
Heating Capacity Range	BTU/h	3.6	4.2	7.4	10.9
Heating HSPF4	BTU/h	11.2	12	10.3	11.5
Refrigerant Type	g	R410A/1500	R410A/1500	R410A/1950	R410A/2600
Suitable Area	sq.ft	129-189	172-252	258-376	344-505
INDOOR UNIT DATA					
Air Flow Volume	CFM	418/324/247	418/324/247	599/411/353	794/647/500
Sound Pressure Level	dB(A)	42/33/24.5	43/36/24	45.5/36/26.5	47.5 /44/36.5
Net Dimensions (WDH)	inch	32.87x7.80x11.02	32.87x7.80x11.02	38.98x8.58x12.40	46.69x10.16x13.39
Carton Dimensions (WDH)	inch	35.83x10.63x13.98	35.83x10.63x13.98	41.93x11.81x15.75	49.80x13.39x16.53
Net / Gross Weight	lbs.	19.84/25.35	19.84/26.68	26.89/34.83	40.12/50.26
OUTDOOR UNIT DATA					
Sound Pressure Level	dB(A)	55.5	56	57.5	60
Net Dimensions (WDH)	inch	31.50x13.11x21.81	31.50x13.11x21.81	33.27x14.29x27.64	37.24/16.14/31.89
Carton Dimensions (WDH)	inch	36.22x15.35x24.21	36.22x15.35x24.21	37.99x15.55x29.72	42.91x19.69x34.45
Net / Gross Weight	lbs.	88.2/93.7	88.2/93.7	107.4/115.1	135.58/148.81



STANDARD FEATURES



TEMPERATURE



ANTI-COLD











COOLING











REMOTE IN CENTRAL CONTROL ENGINEER MODE MANAGEMENT





BUILD-IN DRAIN PUMP



COMPENSATION AIR FUNCTION

ADJUSTABLE STATIC FRONT DESK PRESSURE SWITCH CONTROL





DRAINING





FOLLOW ME

TIMER

LOW AMBIENT

EMERGENCY

LEAKAGE DETECT

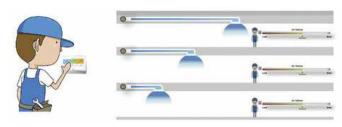
FRESH AIR

Concealed Duct Recessed System

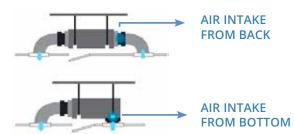
OUTSTANDING FEATURES



Adjustable ESP (External Static Pressure)
Indoor unit main controller circuit board offers adjustable external static pressure option to match the air flow requirements based on duct length and complexity.

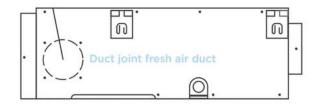


Convertible Return Air ProvisionReturn air ductwork can be attached to the unit approaching from the rear side or the bottom side through the convertible return provision.

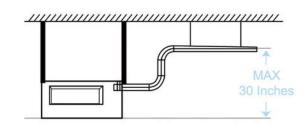


Fresh Air Intake Provision

Fresh air connection knock-out on the body allowers he connection of a small round duct to bring in the fresh air from the outside for certain applications, requiring fresh air supply.



Optional Built In Drain Pump
Built un pump with float switch removes the condensate water out of the unit efficiently and automatically, with a 30 inch liftcapability and quiet performance.



CONCEALED DUCT RECESSED SYSTEM SPECIFICATIONS

System Model		SENA-09ID	SENA-12ID	SENA-18ID	SENA-24ID
Indoor Model		SENA-09ID / I	SENA-12ID / I	SENA-18ID / I	SENA-24ID / I
Outdoor Model		SENA-09 / OZ	SENA-12 / OZ	SENA-18 / OZ	SENA-24 / OZ
PERFORMANCE DATA					
Power Supply	V-Hz-Ph	208~230V, 60Hz, 1Ø	208~230V, 60Hz, 1Ø	208~230V, 60Hz, 1Ø	208~230V, 60Hz, 1Ø
Cooling Rated Capacity	BTU/h	18,000	24,000	36,000	48,000
Cooling Capacity Range	BTU/h	7,500~24,100	7,400~30,800	15,400~46,300	21,560~55,890
Cooling SEER	BTU/h	20.0	20.0	16	17.8
Heating Rated Capacity	BTU/h	18,000	24,000	38,000	50,000
Heating Capacity Range	BTU/h	7,500~24,100	7,800~31,240	15,560~47,100	21,780~57,300
Heating HSPF	BTU/h	10.5	11.1	10.0	11.0
Refrigerant Type		R410a	R410a	R410a	R410a
Suitable Area	sq.ft	450~650	650~900	900~1,350	1,350~1,800
INDOOR UNIT DATA					
Air Flow Volume	CFM	578 / 520 / 465	759 / 695 / 630	1,037 / 865 / 680	1,350 / 1,120 / 1,000
Sound Pressure Level	dB(A)	47.0 / 44.0 / 39.0	53.0 / 48.0 / 42.0	54.0 / 49.0 / 43.0	57.0 / 54.0 / 52.0
Net Dimensions (WDH)	inch	42.0 x 26.5 x 9.3	42.0 x 26.5 x 9.3	50.5 x 26.5 x 9.3	65.0 x 26.5 x 9.3
Carton Dimensions (WDH)	inch	45.0 x 29.8 x 12.4	45.0 x 29.8 x 12.4	53.5 x 29.8 x 12.4	68.0 x 29.8 x 12.4
Net / Gross Weight	lbs.	55 / 66	59 / 69	69 / 82	87 / 97
OUTDOOR UNIT DATA					
Sound Pressure Level	dB(A)	60.0	61.0	66.0	62.0
Net Dimensions (WDH)	inch	33.3 x 24.4 x 17.6	37.2 x 16.5 x 31.8	37.3 x 16.2 x 31.8	37.5 x 16.4 x 52.5
Carton Dimensions (WDH)	inch	38.0 x 15.5 x 29.8	42.8 x 19.6 x 34.0	42.8 x 19.6 x 34.0	43.2 x 19.5 x 58.3
Net / Gross Weight	lbs.	95 / 103	137 / 147	149 / 161	218 / 246

MULTI-ZONE SERIES











OUTSTANDING FEATURES



Match with 5 Different Indoor Unit Styles

Matching Indoor units are available in 5 different styles to meet any design requirement for any space. WS series Wall Mount, CB series Cassette, FB series Floor Console, UB Series Floor-Ceiling, RB series Concealed



Mix and Match any Indoor Unit Style and Capacity
Any style and any capacity indoor unit can be matched in a single system in any cobination, as long as the total capacity stays within the maximum and minimum allowed capacity ranges suggested for the system outdoor



Match with 4 Different Indoor Unit Capacities
The matching different styles of indoor units are available in 3 different capacities; 9,000 - 12,000 - 18,000 and 24,000 BTU/h. (Note 24,000 BTU/h. models can only b matched with 5 zone systems).



Add as You Grow

Not all available circuits on a multi zone outdoor unit need to be accupied with an indoor unit. Any circuit that is available can be attached to an additional indoor unit as needed (not exceeding maximum capacity



MULTI-ZONE SERIES SPECIFICATIONS

System Model		SENA/18HF/MOZ	SENA/30HF/MOZ	SENA/36HF/MOZ	SENA/48HF/MOZ
PERFORMANCE DATA					
Power Supply	V-Hz-Ph	208-230V~60Hz , 1Ph	208-230V~60Hz , 1Ph	208-230V~60Hz , 1Ph	208-230V~60Hz, 1Ph
Cooling Rated Capacity	BTU/h	18000	28000	36000	48000
Cooling Capacity Range	BTU/h	12.5	12.5	11.5	12.5
Cooling SEER	BTU/h	22.5	23	22.5	22.4
Heating Rated Capacity	BTU/h	12000	17200	23000	29600
Heating Capacity Range	BTU/h	19000	28000	36000	48000
Heating HSPF	BTU/h	10.3	10.3	10.2	10.2
Refrigerant Type	0Z	R410A/70.5	R410A/98.8	R410A/105.8	R410A/162.3
Suitable Area	sq.ft				
OUTDOOR UNIT DATA					
Air Flow Volume	CFM	1390	2130	2130	4500
Sound Pressure Level	dB(A)	62.4	63.4	62.3	64
Net Dimensions (WDH)	inch	33.27x14.29x27.64	37.24x16.14x31.89	37.24x16.14x31.89	37.48x16.34x52.48
Carton Dimensions (WDH)	inch	37.99x15.55x29.72	42.91x19.69x34.45	42.91x19.69x34.45	43.11x19.49x58.27
Net / Gross Weight	lbs.	105.82/114.64	149.91/160.94	156.53/167.55	223.77/255.07

