

Close-Coupled Centrifugal Pumps

316 Stainless Steel, Bronze and Cast Iron Models

Description


Sheritech close-coupled cast iron, bronze or 316 stainless steel units pump continuously, producing high flow rates under low-head conditions. Designed for continuous low-pressure circulation and transfer of non-flammable liquids, utility, boiler feed, general transfer, filtration, cooling towers, condensate return, marine applications, fountains, boosters, water circulation, irrigation, spraying systems, jockey pump service, chemical processing, aggressive liquid applications and other general-purpose pumping compatible with pump component materials where no suction lift or no self-priming is required.

- Capacities to 170 GPM, heads to 74 ft.
- 1/3 to 3 HP AC, NEMA 56J frame and base, ODP and TEFC, single and three-phase motors. Single-phase motors are equipped with thermal overload protection. Overload protection not supplied on three-phase units and must be provided in starter units. Pump control box must be ordered separately.
- Clog-resistant, semi-open metallic impellers.
- Pumps feature maintenance-free ball bearings and an easily accessible front drain plug for draining liquid.
- Maximum casing working pressure is 200 PSI.
- Standard pump models (at 3450 RPM) will handle specific gravities to 1.1 (at 100 SSU or less). For specific gravities to 1.4 (at 100 SSU or less), increase motor HP by one size but not to exceed standard 3 HP motor at 3450 RPM or 65 in.-lbs. of torque maximum. Higher specific gravity fluids are not recommended.
- Standard pump models (at 3450 RPM) will handle viscosity to 100 SSU (at 1.1 specific gravity or less) and up to 200 SSU (specific gravity of 1.0 or less). For viscosity up to 400 SSU (specific gravity of 1.0 or less), increase motor HP by one size but not to exceed standard 3 HP motor at 3450 RPM or 65 in.-lbs. of torque. For fluids with a viscosity greater than 400 SSU, pump speed must be reduced below 3450 RPM.
- 3/4" to 2" female NPT inlet and outlet ports.
- Discharge port can be rotated at 90-degree intervals.
- Cast Iron and Bronze units handle temperatures to 200° F; Stainless Steel units handle temperatures to 250° F.
- Seals: Pumps are equipped with a carbon ceramic mechanical seal having 316 stainless steel components. These seals protect the motor shaft, which is 300 series stainless steel, from chemical exposure. Buna-N seal and o-ring in cast iron and bronze models, with Viton seal and o-ring in 316 stainless steel models. Aftermarket options listed below.

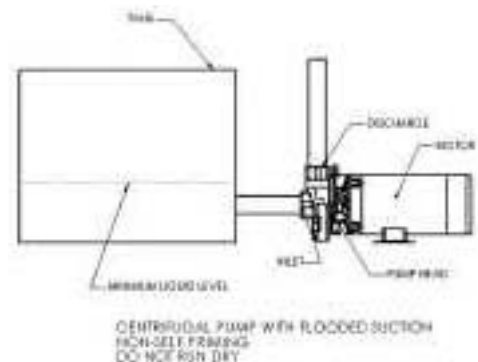
REPAIR SEALS AND OPTIONS – Standard (Viton & Buna-N) and an upgraded (Silicon Carbide) seal are available. If abrasive or small, particulated fluids are being pumped, upgrade to the silicon carbide mechanical seal with Viton elastomers is recommended. Standard and upgraded seals can be located in the repair parts list pages in this manual.

PEDESTAL MODELS – Sheritech Pedestals are available and can be long coupled or pulley driven.

CLOSE-COUPLED PUMP HEADS AND PEDESTAL MOUNT BASE – Complete pump heads can be ordered from Sheritech Parts. Pump head model numbers and optional pedestal base are called out in the repair parts list pages in this manual.

 **Do not use to pump flammable or explosive fluids such as gasoline, fuel oil, kerosene, etc. Do not use in flammable and/or explosive atmospheres. When pumping hazardous or dangerous materials, use only in room or area designated for that purpose. For your protection, always wear proper clothing, eye protection, etc. in case of any malfunction. For proper handling techniques and cautions, contact your chemical supplier, insurance company and local agencies (fire dept., etc.). Failure to comply with this warning could result in personal injury and/or property damage.**

CAUTION Pumps are not self-priming and cannot suction lift, flooded inlet is required. If inlet is not flooded when the pump is running, seal failure will result and is not covered under the manufacturer's warranty.



Source: Owner's Manual L-4073 (11/07)

Close-Coupled Centrifugal Pumps

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Performance – Standard Models (Water at 70°)

Impeller Size	316 Stainless Steel Models	Bronze Models	Cast Iron Models	HP**	GPM of Water at Total Head in Feet*										Max. Head
					10	15	20	30	40	50	60	70	80		
1	COMSV1X	COMBB1X	COMCB1X	1/3	41	37	34	25	10	-	-	-	-	44	
2	COMSV2X	COMBB2X	COMCB2X	1/2	55	50	45	33	10	-	-	-	-	42	
3	COMSV3X	COMBB3X	COMCB3X	3/4	72	68	63	53	41	22	-	-	-	55	
4	COMSV4X	COMBB4X	COMCB4X	1	108	104	98	86	71	47	-	-	-	58	
5	COMSV5X	COMBB5X	COMCB5X	1½	115	110	104	94	81	64	40	-	-	67	
6	COMSV6X	COMBB6X	COMCB6X	2	124	117	110	95	80	74	60	34	-	80	
7	COMSV7X	COMBB7X	COMCB7X	3	168	164	155	148	137	124	110	80	40	83	

(*) Test data is taken water at 70°F for pumps with 60 Hz motors at 3450 RPM motors (to convert data to PSI, divide feet of head by 2.31).

Pump performance when pump is new. As pump wears, the performance will decrease.

(**) AC HP required at specified RPM is HP rated to handle up to 100 SSU at full flow, with a maximum specific gravity of 1.1, or up to 200 SSU at 1.0 specific gravity or less.

NOTES: Max. Viscosity = For viscosity up to 400 SSU (at 1.0 specific gravity or less), increase motor HP by one size but not to exceed standard 3 HP motor at 3450 RPM or 65 in.-lbs. of torque. For fluids with a viscosity greater than 400 SSU, pump speed must be reduced below 3450 RPM.

Max. Casing PSI = 200 Max. RPM = 3450

Max. Specific Gravity = up to 1.1 for standard models (at 100 SSU or less); HP must be increased by one size for specific gravities up to 1.4.

Driver data is subject to change without notice; see label on driver for actual specifications.

Manufacturer reserves the right to change performance without notification.

Price List and Specifications (Pump heads only)

List Price	SUGGESTED DRIVER (Motor Not Included)					PUMP CONSTRUCTION (Wet End)					Ship Wt. (lbs.)
	Model Number	HP	NEMA Frame	RPM	Shaft Material	Port Size FNPT	Body	Impeller	Motor Adapter	Seals*	
	316 SS Models										
\$	COMSV1X	1/3	56J	3450	NA	1" x 3/4"	316 SS	316 SS	316 SS	Viton	10
\$	COMSV2X	1/2	56J	3450	NA	1½" x 1"	316 SS	316 SS	316 SS	Viton	12
\$	COMSV3X	3/4	56J	3450	NA	1½" x 1"	316 SS	316 SS	316 SS	Viton	12
\$	COMSV4X	1	56J	3450	NA	1½" x 1½"	316 SS	316 SS	316 SS	Viton	16
\$	COMSV5X	1½	56J	3450	NA	1½" x 1½"	316 SS	316 SS	316 SS	Viton	16
\$	COMSV6X	2	56J	3450	NA	1½" x 1½"	316 SS	316 SS	316 SS	Viton	19
\$	COMSV7X	3	56J	3450	NA	2" x 1½"	316 SS	316 SS	316 SS	Viton	24
	Bronze Models										
\$	COMBB1X	1/3	56J	3450	NA	1" x 3/4"	BR	BR	BR	Buna-N	11
\$	COMBB2X	1/2	56J	3450	NA	1½" x 1"	BR	BR	BR	Buna-N	13
\$	COMBB3X	3/4	56J	3450	NA	1½" x 1"	BR	BR	BR	Buna-N	13
\$	COMBB4X	1	56J	3450	NA	1½" x 1½"	BR	BR	BR	Buna-N	17
\$	COMBB5X	1½	56J	3450	NA	1½" x 1½"	BR	BR	BR	Buna-N	17
\$	COMBB6X	2	56J	3450	NA	1½" x 1½"	BR	BR	BR	Buna-N	20
\$	COMBB7X	3	56J	3450	NA	2" x 1½"	BR	BR	BR	Buna-N	25
	Cast Iron Models										
\$	COMCB1X	1/3	56J	3450	NA	1" x 3/4"	CI	CI	CI	Buna-N	10
\$	COMCB2X	1/2	56J	3450	NA	1½" x 1"	CI	CI	CI	Buna-N	12
\$	COMCB3X	3/4	56J	3450	NA	1½" x 1"	CI	CI	CI	Buna-N	12
\$	COMCB4X	1	56J	3450	NA	1½" x 1½"	CI	CI	CI	Buna-N	16
\$	COMCB5X	1½	56J	3450	NA	1½" x 1½"	CI	CI	CI	Buna-N	16
\$	COMCB6X	2	56J	3450	NA	1½" x 1½"	CI	CI	CI	Buna-N	18
\$	COMCB7X	3	56J	3450	NA	2" x 1½"	CI	CI	CI	Buna-N	23

SS = Stainless Steel BR = Bronze CI = Cast Iron

(*) Viton shaft seals also contains 316 stainless steel, ceramic, and carbon components. Buna-N shaft seals also contains 18-8 stainless steel, ceramic, and carbon components.

NOTE: Manufacturer reserves the right to change specifications without notification.

To Order Optional Motors

For custom applications or configurations, select a pump head from above and a 56J Frame motor or pedestal mount from the motor section of this catalog.

Source: Owner's Manual L-4073 (11/07)

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316 Stainless Steel, Bronze and Cast Iron Models

Price List and Specifications for Standard Pump and Motor Models

List Price	DRIVER											PUMP CONSTRUCTION (Wet End)					Ship Wt. (lbs.)	
	Model Number	HP	AC Motor Type	NEMA Frame	Motor Voltage	Full Load Amps	Service Factor Amps **	Phase	Hertz	Overload Protection	RPM	Shaft	Port Size FNPT	Body	Impeller	Motor Adapter		Seals*
316 SS Models																		
\$	COMSV11	1/3	ODP	56J	115/208-230	7.20/4.00-3.60	8.68/4.78-4.33	1	60	Yes	3450	303 SS	1" x 3/4"	316SS	316SS	316SS	Viton	27
\$	COMSV22	1/2	ODP	56J	115/208-230	11.10/6.50-5.55	12.4/6.80-6.20	1	60	Yes	3450	303 SS	1 1/2" x 1"	316SS	316SS	316SS	Viton	30
\$	COMSV223	1/2	ODP	56J	208-230/460	1.85-1.85/0.92	2.53/1.27	3	60	No	3450	303 SS	1 1/2" x 1"	316SS	316SS	316SS	Viton	30
\$						190/380	2.04/1.02	**	3	50	No	2830						
\$	COMSV33	3/4	ODP	56J	115/208-230	13.00/7.20-6.50	15.30/8.45-7.65	1	60	Yes	3450	303 SS	1 1/2" x 1"	316SS	316SS	316SS	Viton	33
\$	COMSV333	3/4	ODP	56J	208-230/460	2.45-2.39/1.20	3.59/1.80	3	60	No	3450	303 SS	1 1/2" x 1"	316SS	316SS	316SS	Viton	32
\$						190/380	2.88/1.44	**	3	50	No	2830						
\$	COMSV44	1	ODP	56J	115/208-230	12.40/6.85-6.20	15.70/8.70-7.85	1	60	Yes	3450	303 SS	1 1/2" x 1 1/4"	316SS	316SS	316SS	Viton	40
\$	COMSV443	1	ODP	56J	208-230/460	3.17-3.11/1.55	4.07/2.03	3	60	No	3450	303 SS	1 1/2" x 1 1/4"	316SS	316SS	316SS	Viton	40
\$						190/380	3.70/1.83	**	3	50	No	2830						
\$	COMSV55	1 1/2	ODP	56J	115/208-230	17.00/9.35-8.50	21.00/10.40-10.50	1	60	Yes	3450	303 SS	1 1/2" x 1 1/4"	316SS	316SS	316SS	Viton	44
\$	COMSV553	1 1/2	ODP	56J	208-230/460	4.50-4.26/2.13	5.55/2.77	3	60	No	3450	303 SS	1 1/2" x 1 1/4"	316SS	316SS	316SS	Viton	42
\$						190/380	5.18/2.59	**	3	50	No	2830						
\$	COMSV66	2	ODP	56J	115/208-230	23.00/12.60-11.50	24.5/13.5-12.25	1	60	Yes	3450	303 SS	1 1/2" x 1 1/4"	316SS	316SS	316SS	Viton	56
\$	COMSV66T	2	TEFC	56J	115/208-230	19.40/10.70-9.70	22.16/11.08	1	60	Yes	3450	303 SS	1 1/2" x 1 1/4"	316SS	316SS	316SS	Viton	65
\$						COMSV663	2	ODP	56J	208-230/460	5.80-5.20/2.60	6.20/3.10						
\$	COMSV663T	2	TEFC	56J	208-230/460	5.92-5.36/2.68	6.00/3.00	3	60	No	3450	303 SS	1 1/2" x 1 1/4"	316SS	316SS	316SS	Viton	65
\$						190/380	6.30/3.15	**	3	50	No	2830						
\$	COMSV77	3	ODP	56J	208-230	15.30-13.50	**	1	60	Yes	3450	303 SS	2" x 1 1/2"	316SS	316SS	316SS	Viton	70
\$	COMSV77T	3	TEFC	56J	208-230	13.30-12.20	**	1	60	Yes	3450	303 SS	2" x 1 1/2"	316SS	316SS	316SS	Viton	75
\$						COMSV773	3	ODP	56J	208-230/460	8.42-7.65/3.83	9.00/4.50						
\$	COMSV773T	3	TEFC	56J	208-230/460	6.32/3.16	**	3	50	No	2830	303 SS	2" x 1 1/2"	316SS	316SS	316SS	Viton	75
\$						190/380	8.30-7.60/3.80	8.40/4.20	3	60	No							
\$	190/380	6.20/3.10	**	3	50	No	2830											
Bronze Models																		
\$	COMBB11	1/3	ODP	56J	115/208-230	7.20/4.00-3.60	8.68/4.78-4.33	1	60	Yes	3450	303 SS	1" X 3/4"	BR	BR	BR	Buna-N	27
\$	COMBB22	1/2	ODP	56J	115/208-230	11.10/6.50-5.55	12.4/6.80-6.20	1	60	Yes	3450	303 SS	1 1/2" x 1"	BR	BR	BR	Buna-N	30
\$	COMBB223	1/2	ODP	56J	208-230/460	1.85-1.85/0.92	2.53/1.27	3	60	No	3450	303 SS	1 1/2" x 1"	BR	BR	BR	Buna-N	30
\$						190/380	2.04/1.02	**	3	50	No	2830						
\$	COMBB33	3/4	ODP	56J	115/208-230	13.00/7.20-6.50	15.30/8.45-7.65	1	60	Yes	3450	303 SS	1 1/2" x 1"	BR	BR	BR	Buna-N	33
\$	COMBB333	3/4	ODP	56J	208-230/460	2.45-2.39/1.20	3.59/1.80	3	60	No	3450	303 SS	1 1/2" x 1"	BR	BR	BR	Buna-N	32
\$						190/380	2.88/1.44	**	3	50	No	2830						
\$	COMBB44	1	ODP	56J	115/208-230	12.40/6.85-6.20	15.70/8.70-7.85	1	60	Yes	3450	303 SS	1 1/2" x 1 1/4"	BR	BR	BR	Buna-N	40
\$	COMBB443	1	ODP	56J	208-230/460	3.17-3.11/1.55	4.07/2.03	3	60	No	3450	303 SS	1 1/2" x 1 1/4"	BR	BR	BR	Buna-N	40
\$						190/380	3.70/1.83	**	3	50	No	2830						
\$	COMBB55	1 1/2	ODP	56J	115/208-230	17.00/9.35-8.50	21.00/10.40-10.50	1	60	Yes	3450	303 SS	1 1/2" x 1 1/4"	BR	BR	BR	Buna-N	44
\$	COMBB553	1 1/2	ODP	56J	208-230/460	4.50-4.26/2.13	5.55/2.77	3	60	No	3450	303 SS	1 1/2" x 1 1/4"	BR	BR	BR	Buna-N	42
\$						190/380	5.18/2.59	**	3	50	No	2830						
\$	COMBB66	2	ODP	56J	115/208-230	23.00/12.60-11.50	24.5/13.5-12.25	1	60	Yes	3450	303 SS	1 1/2" x 1 1/4"	BR	BR	BR	Buna-N	56
\$	COMBB66T	2	TEFC	56J	115/208-230	19.40/10.70-9.70	22.16/11.08	1	60	Yes	3450	303 SS	1 1/2" x 1 1/4"	BR	BR	BR	Buna-N	65
\$						COMBB663	2	ODP	56J	208-230/460	5.80-5.20/2.60	6.20/3.10						
\$	COMBB663T	2	TEFC	56J	208-230/460	5.92-5.36/2.68	6.00/3.00	3	60	No	3450	303 SS	1 1/2" x 1 1/4"	BR	BR	BR	Buna-N	65
\$						190/380	6.30/3.15	**	3	50	No	2830						
\$	COMBB77	3	ODP	56J	208-230	15.30-13.50	**	1	60	Yes	3450	303 SS	2" x 1 1/2"	BR	BR	BR	Buna-N	70
\$	COMBB77T	3	TEFC	56J	208-230	13.30-12.20	**	1	60	Yes	3450	303 SS	2" x 1 1/2"	BR	BR	BR	Buna-N	75
\$						COMBB773	3	ODP	56J	208-230/460	8.42-7.65/3.83	9.00/4.50						
\$	COMBB773T	3	TEFC	56J	208-230/460	6.32/3.16	**	3	50	No	2830	303 SS	2" x 1 1/2"	BR	BR	BR	Buna-N	75
\$						190/380	8.30-7.60/3.80	8.40/4.20	3	60	No							
\$	190/380	6.20/3.10	**	3	50	No	2830											

SS = Stainless Steel BR = Bronze CI = Cast Iron ODP = Open Drip-Proof TEFC = Totally-Enclosed Fan-Cooled

Continued on page 8

(*) Viton Shaft Seal also contains 316 stainless steel, ceramic, and carbon components. Buna-N shaft seals also contains 18-8 stainless steel, ceramic, and carbon components.

(**) At 208 volts or 50 hertz, the Service Factor Amps are the same as the Full Load Amps.

NOTES: Driver data is subject to change without notice, see label on driver for actual specifications.

All motors include a base (the base may be removable, movable or welded). Motors are not supplied with power cords.

Manufacturer reserves the right to change specifications without notification.

Standard motors listed above are not wash-down or explosion-proof (manufacturer does not stock wash-down or explosion-proof motors).

Thermal overload protection is standard on all single-phase motors (overload protector may have automatic or manual reset); three-phase

motors are not provided with thermal overload protection.

Manufacturer does not specify regulatory compliance for UL, UR, CSA or CE;

however most models do comply to UL, UR, CSA and CE.

Source: Owner's Manual L-4073 (11/07)

Close-Coupled Centrifugal Pumps

316 Stainless Steel, Bronze and Cast Iron Models

Price List and Specifications for Standard Pump and Motor Models

List Price	DRIVER												PUMP CONSTRUCTION (Wet End)					Ship Wt. (lbs.)	
	Model Number	HP	AC Motor Type	NEMA Frame	Motor Voltage	Full Load Amps	Service Factor Amps **	Phase	Hertz	Overload Protection	RPM	Shaft	Port Size FNPT	Body	Impeller	Motor Adapter	Seals*		
\$	Cast Iron Models																		
	COMCB11	1/3	ODP	56J	115/208-230	7.20/4.00-3.60	8.68/4.78-4.33	1	60	Yes	3450	303 SS	1" X 3/4"	CI	CI	CI	Buna-N	27	
	COMCB22	1/2	ODP	56J	115/208-230	11.10/6.50-5.55	12.4/6.80-6.20	1	60	Yes	3450	303 SS	1 1/2" x 1"	CI	CI	CI	Buna-N	30	
	COMCB223	1/2	ODP	56J	208-230/460	1.85-1.85/0.92	2.53/1.27	3	60	No	3450	303 SS	1 1/2" x 1"	CI	CI	CI	Buna-N	30	
					190/380	2.04/1.02	**	3	50	No	2830								
	COMCB33	3/4	ODP	56J	115/208-230	13.00/7.20-6.50	15.30/8.45-7.65	1	60	Yes	3450	303 SS	1 1/2" x 1"	CI	CI	CI	Buna-N	33	
	COMCB333	3/4	ODP	56J	208-230/460	2.45-2.39/1.20	3.59/1.80	3	60	No	3450	303 SS	1 1/2" x 1"	CI	CI	CI	Buna-N	32	
					190/380	2.88/1.44	**	3	50	No	2830								
	COMCB44	1	ODP	56J	115/208-230	12.40/6.85-6.20	15.70/8.70-7.85	1	60	Yes	3450	303 SS	1 1/2" x 1 1/2"	CI	CI	CI	Buna-N	40	
	COMCB443	1	ODP	56J	208-230/460	3.17-3.11/1.55	4.07/2.03	3	60	No	3450	303 SS	1 1/2" x 1 1/2"	CI	CI	CI	Buna-N	40	
					190/380	3.70/1.83	**	3	50	No	2830								
	COMCB55	1 1/2	ODP	56J	115/208-230	17.00/9.35-8.50	21.00/10.40-10.50	1	60	Yes	3450	303 SS	1 1/2" x 1 1/2"	CI	CI	CI	Buna-N	44	
	COMCB553	1 1/2	ODP	56J	208-230/460	4.50-4.26/2.13	5.55/2.77	3	60	No	3450	303 SS	1 1/2" x 1 1/2"	CI	CI	CI	Buna-N	42	
					190/380	5.18/2.59	**	3	50	No	2830								
	COMCB66	2	ODP	56J	115/208-230	23.00/12.60-11.50	24.5/13.5-12.25	1	60	Yes	3450	303 SS	1 1/2" x 1 1/2"	CI	CI	CI	Buna-N	56	
	COMCB66T	2	TEFC	56J	115/208-230	19.40/10.70-9.70	22.16/11.08	1	60	Yes	3450	303 SS	1 1/2" x 1 1/2"	CI	CI	CI	Buna-N	65	
	COMCB663	2	ODP	56J	208-230/460	5.80-5.20/2.60	6.20/3.10	3	60	No	3450	303 SS	1 1/2" x 1 1/2"	CI	CI	CI	Buna-N	56	
					190/380	6.40/3.20	**	3	50	No	2830								
	COMCB663T	2	TEFC	56J	208-230/460	5.92-5.36/2.68	6.00/3.00	3	60	No	3450	303 SS	1 1/2" x 1 1/2"	CI	CI	CI	Buna-N	65	
					190/380	6.30/3.15	**	3	50	No	2830								
COMCB77	3	ODP	56J	208-230	15.30-13.50	**	1	60	Yes	3450	303 SS	2" x 1 1/2"	CI	CI	CI	Buna-N	70		
COMCB77T	3	TEFC	56J	208-230	13.30-12.20	**	1	60	Yes	3450	303 SS	2" x 1 1/2"	CI	CI	CI	Buna-N	75		
COMCB773	3	ODP	56J	208-230/460	8.42-7.65/3.83	9.00/4.50	3	60	No	3450	303 SS	2" x 1 1/2"	CI	CI	CI	Buna-N	70		
				190/380	6.32/3.16	**	3	50	No	2830									
COMCB773T	3	TEFC	56J	208-230/460	8.30-7.60/3.80	8.40/4.20	3	60	No	3450	303 SS	2" x 1 1/2"	CI	CI	CI	Buna-N	75		
				190/380	6.20/3.10	**	3	50	No	2830									

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 (*) Viton Shaft Seal also contains 316 stainless steel, ceramic, and carbon components. Buna-N shaft seals also contains 18-8 stainless steel, ceramic, and carbon components.

(**) At 208 volts or 50 hertz, the Service Factor Amps are the same as the Full Load Amps.

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 Thermal overload protection is standard on all single-phase motors (overload protector may have automatic or manual reset); three-phase motors are not provided with thermal overload protection.
 Manufacturer does not specify regulatory compliance for UL, UR, CSA or CE;
 however most models do comply to UL, UR, CSA and CE.