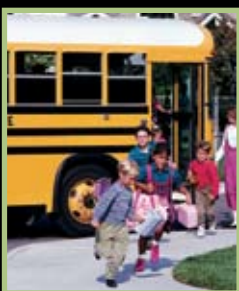


Shutters for Bus, Off-Highway, Agricultural, and Heavy-Duty Truck Applications

Automatic air or hydraulic radiator shutters from BorgWarner Thermal Systems are ideal for a wide range of applications where fuel economy and driver/passenger comfort are important. Automatic radiator shutters are designed to eliminate overcooling and avoid overheating by regulating the amount of ambient airflow through the radiator. The shutters open and close in response to changes in engine coolant temperature and help to maintain optimum engine operating temperatures – all while improving engine performance, durability, and fuel economy. BorgWarner Thermal Systems is the global choice for automatic radiator shutters with a full range of products for buses, light and heavy trucks, locomotives, agricultural, and other off-highway applications.

*BorgWarner Thermal Systems
Shutters improve comfort, economy,
performance & life.*



BorgWarner Thermal Systems is a single point of contact for cooling system components for passenger car, SUV, light truck, medium-duty truck, heavy-duty truck, and off-highway applications. We work with original-equipment manufacturers around the world to provide a full range of direct-actuated Viscronic® fan drives, viscous fan drives, Kysor™ on/off fan clutches, Cool Logic™ heavy-duty multi-speed drives, polymer fans, and shutters.

cool SHUTTERS

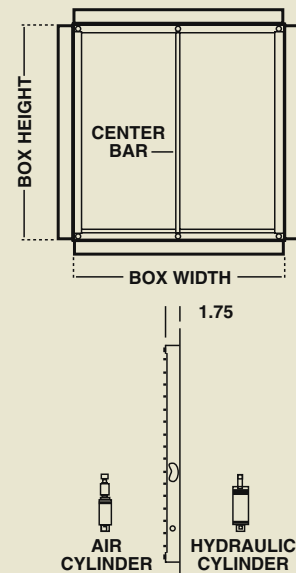
Shutters

for Bus, Off-Highway, Agricultural, and Heavy-Duty Truck Applications

Features and Benefits

- Easy mounting on front or backside of shutter provides a trouble-free installation.
- Automatically operated by air or hydraulic pressure allowing ease in operation.
- Maintaining optimum engine operating temperature results in up to 1.5% improved fuel economy and longer oil life.
- Quicker interior heat and defrosting during cold weather operations occurs by the shutter regulated ambient airflow through the radiator.
- Shutters repel dirt and other particulate from clogging the radiator, protecting the radiator fins from damage while extending radiator life.
- Noise migration through the radiator to the outside of the vehicle is reduced with shutters.
- By maintaining the engine's optimum operating temperature, sludge is reduced and engine life is increased.
- Shutters are manufactured at a QS-9000 certified facility, providing superior product quality.

# of VANES	BOX HEIGHT	BOX WIDTH (* CENTER BAR REQUIRED > 32.00)											
		12.00	14.00	16.00	18.00	20.00	22.00	24.00	26.00	28.00	30.00	32.00	
8	14.00	7.5	8.1	8.8	9.4	10.1	10.7	11.3	12.0	12.6	13.3	13.9	
9	15.50	8.1	8.8	9.5	10.1	10.8	11.5	12.2	12.9	13.5	14.2	14.9	
10	17.00	8.7	9.4	10.1	10.9	11.6	12.3	13.0	13.7	14.5	15.2	15.9	
11	18.50	9.3	10.1	10.8	11.6	12.3	13.1	13.9	14.6	15.4	16.1	16.9	
12	20.00	9.9	10.7	11.5	12.3	13.1	13.9	14.7	15.5	16.3	17.1	17.9	
13	21.50	10.5	11.3	12.2	13.0	13.9	14.7	15.5	16.4	17.2	18.1	18.9	
14	23.00	11.1	12.0	12.9	13.7	14.6	15.5	16.4	17.3	18.1	19.0	19.9	
15	24.50	11.7	12.6	13.5	14.5	15.4	16.3	17.2	18.1	19.1	20.0	20.9	
16	26.00	12.3	13.3	14.2	15.2	16.1	17.1	18.1	19.0	20.0	20.9	21.9	
17	27.50	12.9	13.9	14.9	15.9	16.9	17.9	18.9	19.9	20.9	21.9	22.9	
18	29.00	13.5	14.5	15.6	16.6	17.7	18.7	19.7	20.8	21.8	22.9	23.9	
19	30.50	14.1	15.2	16.3	17.3	18.4	19.5	20.6	21.7	22.7	23.8	24.9	
20	32.00	14.7	15.8	16.9	18.1	19.2	20.3	21.4	22.5	23.7	24.8	25.9	
21	33.50	15.3	16.5	17.6	18.8	19.9	21.1	22.3	23.4	24.6	25.7	26.9	
22	35.00	15.9	17.1	18.3	19.5	20.7	21.9	23.1	24.3	25.5	26.7	27.9	
23	36.50	16.5	17.7	19.0	20.2	21.5	22.7	23.9	25.2	26.4	27.7	28.9	
24	38.00	17.1	18.4	19.7	20.9	22.2	23.5	24.8	26.1	27.3	28.6	29.9	
		APPROX. WEIGHT (LBS)											



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BorgWarner
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