

NORTHLAND MOTOR TECHNOLOGIES

MERCURY BRUSHLESS BLOWERS

- Feature protection for overtemperature and overcurrent conditions
- Will shut down to protect itself
- Both through-flow and bypass motors available
- cULus recognized components (E312944)
- Tested according to the following safety agency requirements:
 - ANSI/UL STD. 1003
 - ANSI/UL STD. 2111
 - CSA C22.2 NO. 77
 - CSA C22.2 NO. 1000
- Conforms to ANSI/UL Std. 60950-1
- Certified to CSA C22.2 No. 60950-1
- Conforms to IEC 60950-1

High-watt bypass mercury products ONLY meet the following safety agency requirements:

- Conforms to ANSI/UL STD. 1004 and ANSI/UL STD. 2111
- Certified to CSA C22.2 No. 77 and CSA C22.2 No. 100.

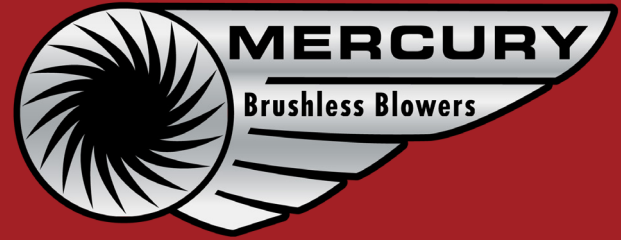


WHY BRUSHLESS IS BETTER

- No brushes for commutation, which cause arcing while wearing down brushes more quickly, decreasing electrical efficiency and increasing electrical noise.
- More efficient removal of heat from motor.
- Decreased motor inertia. Motor can spin more easily, so it can accelerate and decelerate more quickly.
- Brushed motors limit the maximum speed and changes its speed and torque curves

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BYPASS BLOWERS

The motor and control are not in the working air, but clean air must be available for the motor/control cooling function.

- Bypass blowers are separated by:
- Flow (Standard/High)
 - Wattage (Low/High)
 - AC Input Voltage (120/240V)
 - Speed Control (Mechanical or Electrical)

| | Input Voltage | CONTROL | STANDARD FLOW | | | HIGH FLOW | | |
|----------------------|---------------|---------|---------------|--------------|--------------|--------------|--------------|--------------|
| | | | 1 STAGE | 2 STAGE | 3 STAGE | 1 STAGE | 2 STAGE | 3 STAGE |
| LOW WATT (200-500W) | 120 | E | BBA14-111SEB | BBA14-112SEB | BBA14-113SEB | BBA14-111HEB | BBA14-112HEB | BBA14-113HEB |
| | | M | BBA14-111SMB | BBA14-112SMB | BBA14-113SMB | BBA14-111HMB | BBA14-112HMB | BBA14-113HMB |
| | 240 | E | BBA14-211SEB | BBA14-212SEB | BBA14-213SEB | BBA14-211HEB | BBA14-212HEB | BBA14-213HEB |
| | | M | BBA14-211SMB | BBA14-212SMB | BBA14-213SMB | BBA14-211HMB | BBA14-212HMB | BBA14-213HMB |
| LOW WATT (200-1300W) | 120 | E | BBA14-121SEB | BBA14-122SEB | BBA14-123SEB | BBA14-121HEB | BBA14-122HEB | BBA14-123HEB |
| | | M | BBA14-121SMB | BBA14-122SMB | BBA14-123SMB | BBA14-123HMB | BBA14-122HMB | BBA14-123HMB |
| | 240 | E | BBA14-221SEB | BBA14-222SEB | BBA14-223SEB | BBA14-221HEB | BBA14-222HEB | BBA14-223HEB |
| | | M | BBA14-221SMB | BBA14-222SMB | BBA14-223SMB | BBA14-221HMB | BBA14-222HMB | BBA14-223HMB |

THROUGH-FLOW BLOWERS

The motor and control are cooled by the air flow through the blower. This type of unit is suitable for handling clear air only.

- Bypass blowers are separated by:
- Flow (Standard/High)
 - AC Input Voltage (120/240V)
 - Speed Control (Mechanical or Electrical)

| | Input Voltage | CONTROL | STANDARD FLOW | | | HIGH FLOW | | |
|---------------------|---------------|---------|---------------|--------------|--------------|--------------|--------------|--------------|
| | | | 1 STAGE | 2 STAGE | 3 STAGE | 1 STAGE | 2 STAGE | 3 STAGE |
| LOW WATT (200-500W) | 120 | E | BBA14-111SET | BBA14-112SET | BBA14-113SET | BBA14-111HET | BBA14-112HET | BBA14-113HET |
| | | M | BBA14-111SMT | BBA14-112SMT | BBA14-113SMT | BBA14-111HMT | BBA14-112HMT | BBA14-113HMT |
| | 240 | E | BBA14-211SET | BBA14-212SET | BBA14-213SET | BBA14-211HET | BBA14-212HET | BBA14-213HET |
| | | M | BBA14-211SMT | BBA14-212SMT | BBA14-213SMT | BBA14-211HMT | BBA14-212HMT | BBA14-213HMT |