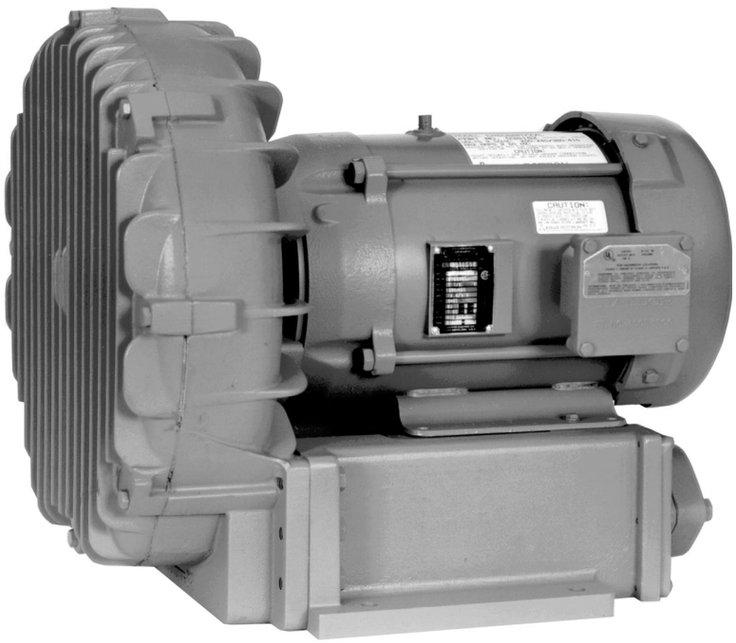
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# EN 808 & CP 808 Three-Phase Sealed Regenerative Blower w/Explosion-Proof Motor

## FEATURES

- Manufactured in the USA – ISO 9001 compliant
- Maximum flow: 350 SCFM
- Maximum pressure: 90 IWG
- Maximum vacuum: 97 IWG
- Standard motor: 7.5 HP, explosion-proof
- Cast aluminum blower housing, cover, impeller & manifold; cast iron flanges (threaded); teflon lip seal
- UL & CSA approved motor with permanently sealed ball bearings for explosive gas atmospheres Class I Group D minimum
- Sealed blower assembly
- Quiet operation within OSHA standards



## MOTOR OPTIONS

- International voltage & frequency (Hz)
- Chemical duty, high efficiency, inverter duty or industry-specific designs
- Various horsepowers for application-specific needs

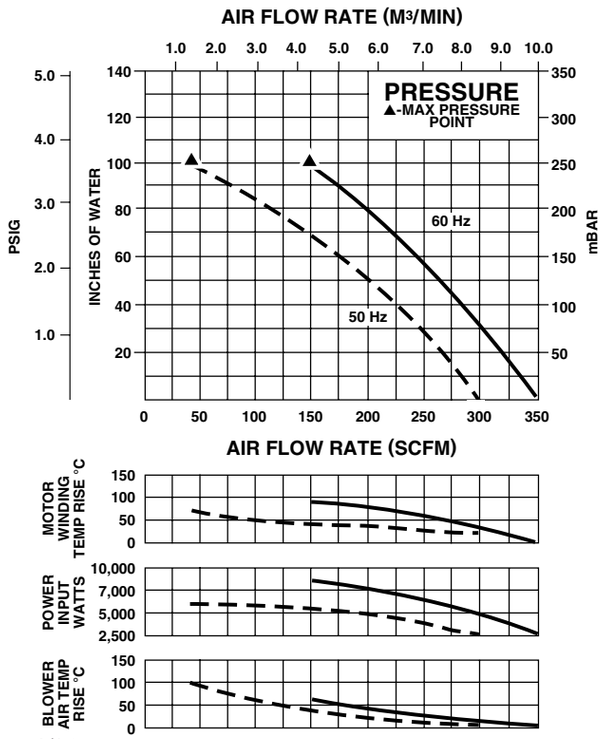
## BLOWER OPTIONS

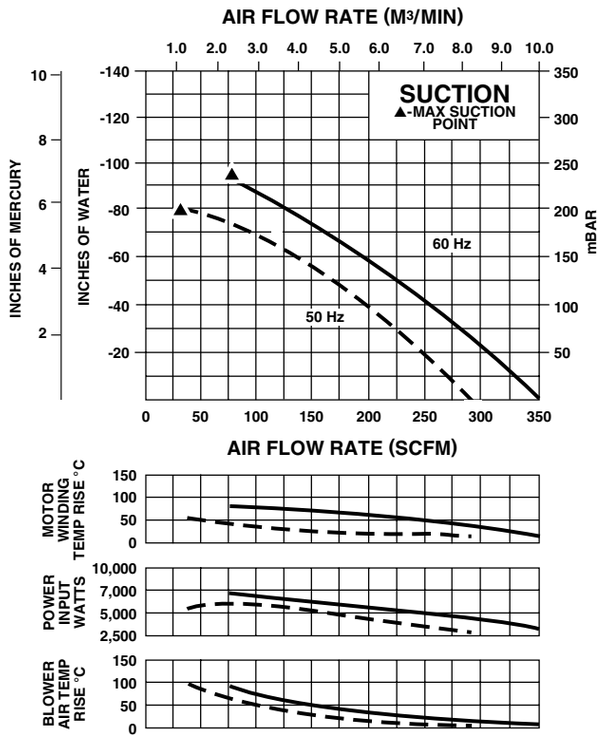
- Corrosion resistant surface treatments & sealing options
- Remote drive (motorless) models
- Slip-on or face flanges for application-specific needs

## ACCESSORIES (See Catalog Accessory Section)

- Flowmeters reading in SCFM
- Filters & moisture separators
- Pressure gauges, vacuum gauges & relief valves
- Switches – air flow, pressure, vacuum or temperature
- External mufflers for additional silencing
- Air knives (used on blow-off applications)
- Variable frequency drive package

## BLOWER PERFORMANCE AT STANDARD CONDITIONS




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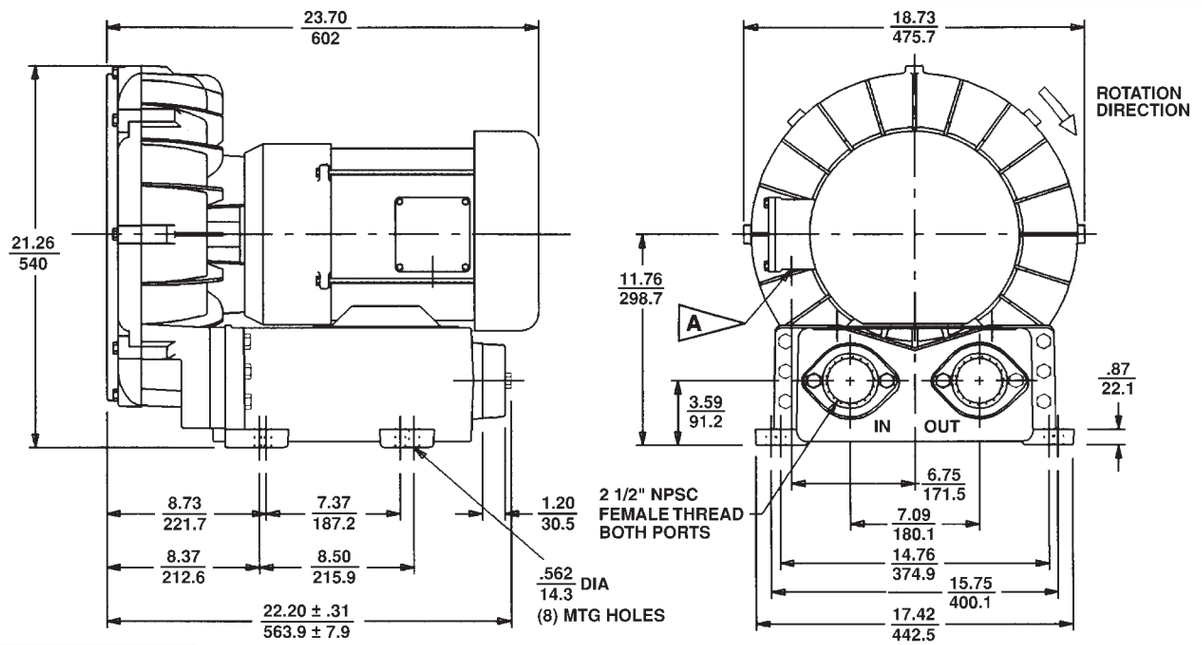
AMETEK Technical and Industrial Products, Kent, OH 44240 • e mail: rotronindustrial@ametek.com • internet: www.ametektmd.com

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# EN 808 & CP 808 Three-Phase Sealed Regenerative Blower w/Explosion-Proof Motor

Scale CAD drawing available upon request.




DIMENSIONS: IN / MM
TOLERANCES: .XX ± .1 / 2.5
(UNLESS OTHERWISE NOTED)

A 0.75" NPT CONDUIT CONNECTION AT 12 O'CLOCK POSITION

## SPECIFICATIONS

| MODEL | EN808BA72MXL | | EN808BA86MXL | CP808FY72MXLR |
|---|---|---|---|---|
| Part No. | 038729 | | 038731 | 038976 |
| Motor Enclosure – Shaft Material | Explosion-proof – **CS** | | Explosion-proof – **CS** | Chem XP – **SS** |
| Horsepower | 7.5 | | 7.5 | Same as EN808BA72MXL – 038729 except add Chemical Processing (CP) features from catalog inside front cover |
| Phase – Frequency [1] | Three - 60 Hz | | Three - 60 Hz | |
| Voltage [1] | 230 | 460 | 575 | |
| Motor Nameplate Amps | 18.6 | 9.3 | 7.4 | |
| Max. Blower Amps [3] | 20.8 | 10.4 | 8.1 | |
| Inrush Amps | 126 | 63 | 56 | |
| Starter Size | 1 | 1 | 1 | |
| Service Factor | 1.0 | | 1.0 | |
| Thermal Protection [2] | Class B - Pilot Duty | | Class B - Pilot Duty | |
| XP Motor Class – Group | I-D, II-F&G | | I-D, II-F&G | |
| Shipping Weight | 304 lb (138 kg) | | 304 lb (138 kg) | |

[1] Rotron motors are designed to handle a broad range of world voltages and power supply variations. Our dual voltage 3 phase motors are factory tested and certified to operate on both: **208-230/415-460 VAC-3 ph-60 Hz** and **190-208/380-415 VAC-3 ph-50 Hz**. Our dual voltage 1 phase motors are factory tested and certified to operate on both: **104-115/208-230 VAC-1 ph-60 Hz** and **100-110/200-220 VAC-1 ph-50 Hz**. All voltages above can handle a ±10% voltage fluctuation. Special wound motors can be ordered for voltages outside our certified range.

[2] Maximum operating temperature: Motor winding temperature (winding rise plus ambient) should not exceed 140°C for Class F rated motors or 120°C for Class B rated motors. Blower outlet air temperature should not exceed 140°C (air temperature rise plus inlet temperature). Performance curve maximum pressure and suction points are based on a 40°C inlet and ambient temperature. Consult factory for inlet or ambient temperatures above 40°C.

[3] Maximum blower amps corresponds to the performance point at which the motor or blower temperature rise with a 40°C inlet and/or ambient temperature reaches the maximum operating temperature.

**Specifications subject to change without notice. Please consult your Local Field Sales Engineer for specification updates.**

Rev. 2/04