

# ROTRON® Regenerative Blowers

## EN 454M & CP 454M Sealed Regenerative Blower w/Explosion-Proof Motor

### FEATURES

- Manufactured in the USA – ISO 9001 compliant
- Maximum flow: 127 SCFM
- Maximum pressure: 65 IWG
- Maximum vacuum: 59 IWG
- Standard motor: 1.5 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

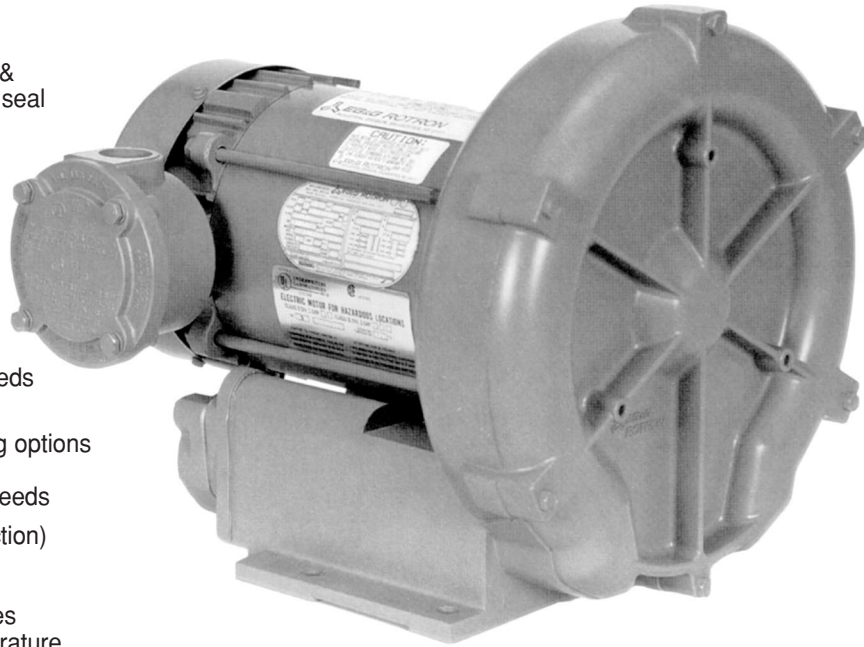
- International voltage & frequency (Hz)
- Chemical duty, high efficiency, inverter duty or industry-specific designs
- Various horsepower for application-specific needs

### BLOWER OPTIONS

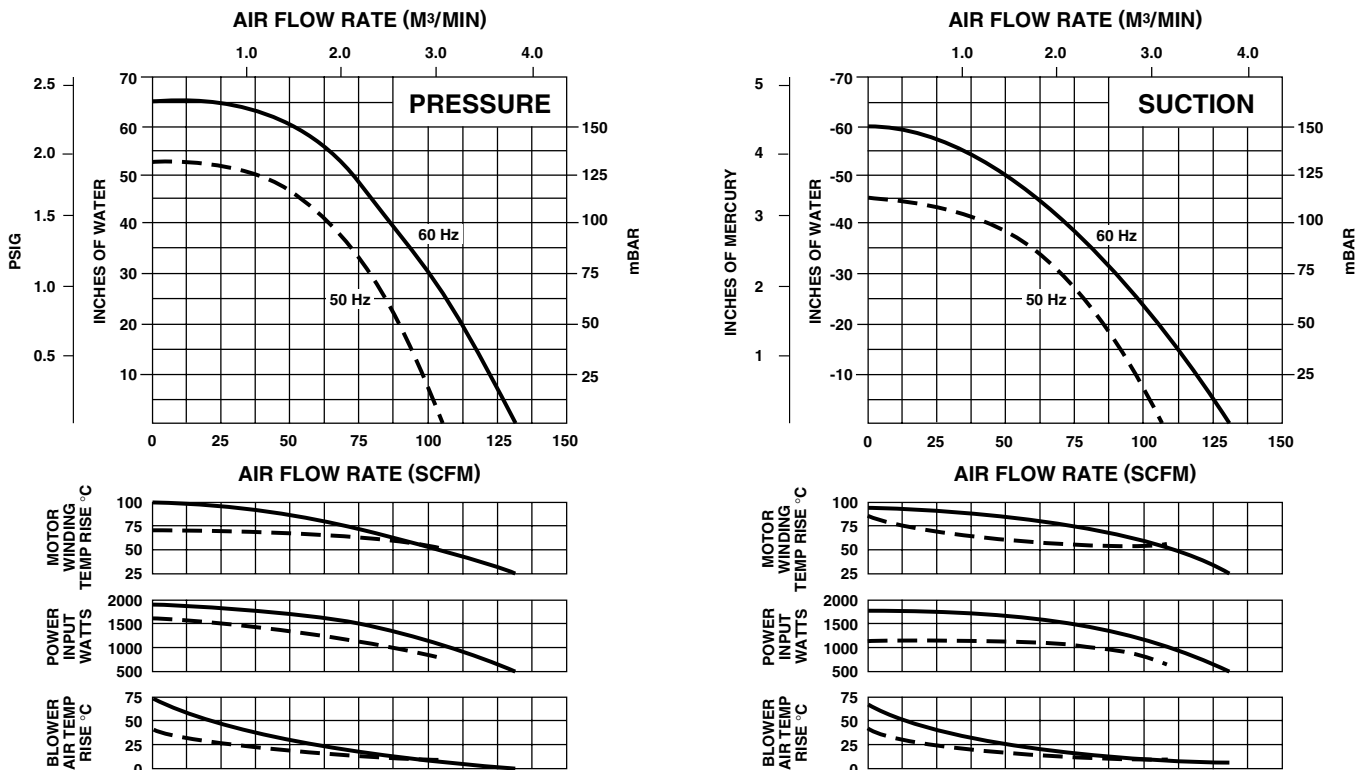
- Corrosion resistant surface treatments & sealing options
- Remote drive (motorless) models
- Slip-on or face flanges for application-specific needs

### 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

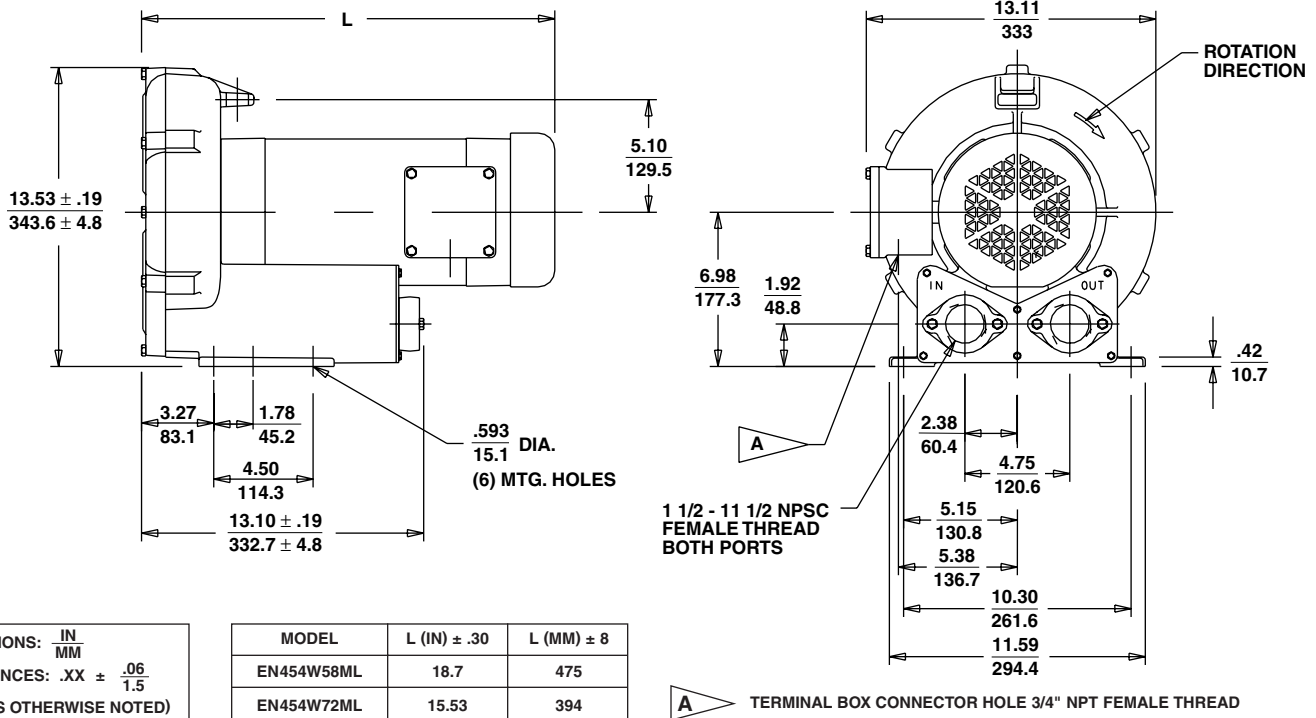


Rev. 2/04

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Scale CAD drawing available upon request.



DIMENSIONS:  $\frac{\text{IN}}{\text{MM}}$   
TOLERANCES:  $.XX \pm \begin{matrix} .06 \\ 1.5 \end{matrix}$   
(UNLESS OTHERWISE NOTED)

MODEL	L (IN) ± .30	L (MM) ± 8
EN454W58ML	18.7	475
EN454W72ML	15.53	394

### SPECIFICATIONS

MODEL	EN454W58ML	EN454W72ML	CP454W72MLR	CP454FR72MLR
Part No.	080487	080488	080490	080494
Motor Enclosure – Shaft Material	Explosion-proof – <b>CS</b>	Explosion-proof – <b>CS</b>	Chem XP – <b>CS</b>	Chem XP – <b>SS</b>
Horsepower	1.5	1.5	Same as EN454W72ML – 080488	Same as EN454W72ML – 080488
Phase – Frequency <sup>1</sup>	Single - 60 Hz	Three - 60 Hz		
Voltage <sup>1</sup>	115	208-230	230	460
Motor Nameplate Amps	15	7.9-7.5	4.6	2.3
Max. Blower Amps <sup>3</sup>	20	10.9-10	5.6	2.8
Inrush Amps	96	48	32	16
Starter Size	1	0	00	00
Service Factor	1.0	1.0	Same as EN454W72ML – 080488 except add Chemical Processing (CP) features from catalog inside front cover	Same as EN454W72ML – 080488 except add Chemical Processing (CP) features from catalog inside front cover
Thermal Protection <sup>2</sup>	Class B - Pilot Duty	Class B - Pilot Duty		
XP Motor Class – Group	I-D, II-F&G	I-D, II-F&G		
Shipping Weight	86 lb (39 kg)	80 lb (36.2 kg)		

<sup>1</sup> 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.

<sup>2</sup> 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.

<sup>3</sup> 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.

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