



4-25 HP SIMPLEX/DUPLEX/TRIPLEX VACUUM SYSTEMS

Industrial Tank Mounted Vacuum Systems



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The Elmo Rietschle offers standard systems for a wide range of requirements and applications. The PureVac industrial vacuum system is designed to provide vacuum for applications such as laboratories, molding, packaging, printing, plastics, food manufacturing, and many others.

Vacuum System Overview

The PureVac package includes one, two, or three vacuum pumps and associated equipment, one ASME tank and one control panel. Each pump is factory piped to a common intake manifold. The system is completely tested prior to shipment.

ASME Rated Receiver

The receiver is rated for full vacuum and is included as a standard feature. The vacuum receiver tank provides dampening in the vacuum system piping. The tank is fitted with a drain valve. The carbon steel receiver tank is ASME U Boiler and Pressure Vessel code rated from full vacuum to 200 PSIG (13.8 barG).

Control Panel

The standard UL listed control panel in a NEMA 4/12 enclosure UL 508A with motor starter and disconnects supplied. Main power disconnect with Hand-Off-Auto selector switches for each pump. A HDMI 7" touchscreen display for programming the unit and displaying and changing the operating parameters.

Motor

TEFC Premium Efficient NEMA, C-Faced, standard motors with 1.15 service factor is supplied according to specifications within the parameters of enclosure, speed, temperature rating and efficiency level. Motors are mounted directly to the pump and are suitable for 200/3/60, 230/460/3/60, 380/3/50, and 575/3/60 applications.

NOTE: 80 Gallon Tank Mount model displayed on front cover.

PLC Pump Management

The reliable PLC driven control systems offers pump rotation and redundancy management to maximize uptime and even out pump performance to ensure pumps wear evenly. Careful monitoring of hours run allows effective predictive maintenance scheduling. During pump down-time the system can still provide seamless operation and allows serviceability without shut down.

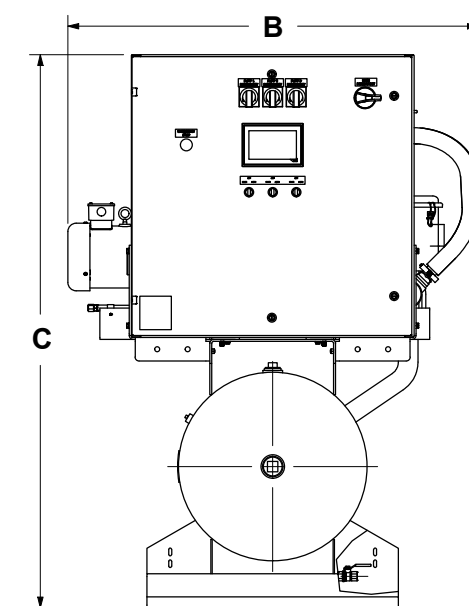
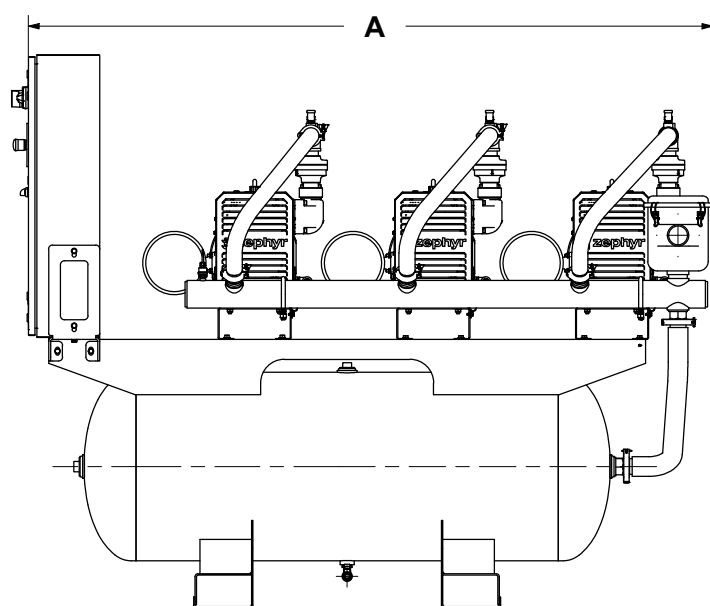
Preventive Maintenance

PredictER™ preventive maintenance monitoring package provides real time feedback for high discharge temperature, oil quality and vibration monitoring. Ideal for harsh environments requiring frequent oil changes.

Available Options / Upgrades

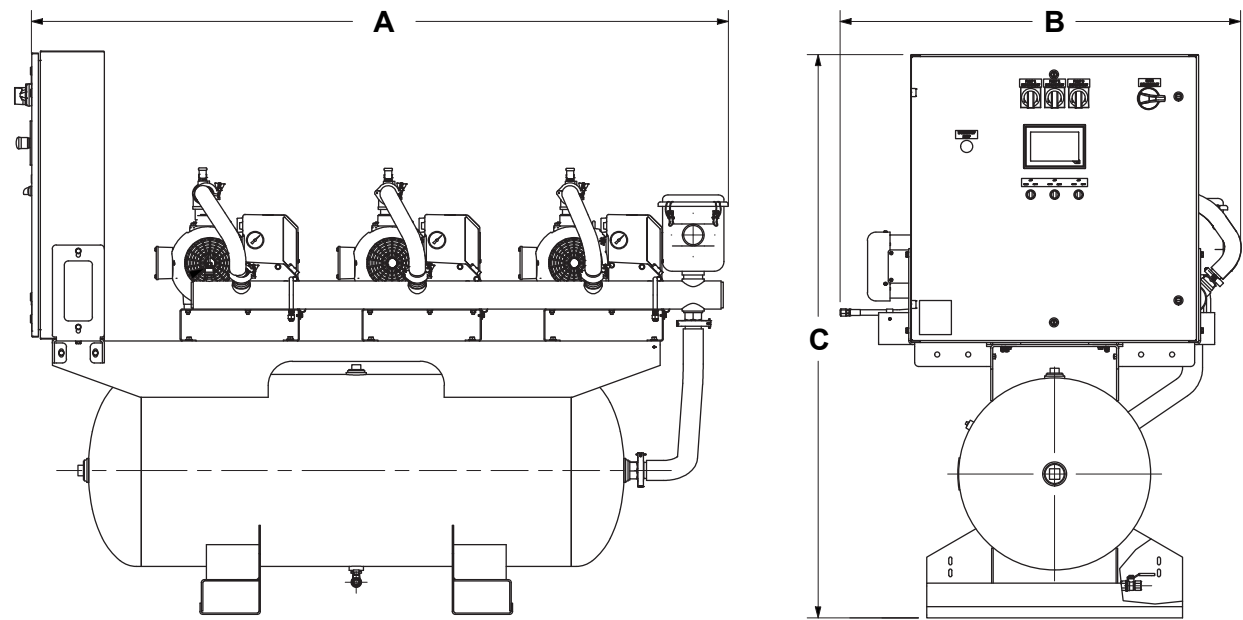
■ PredictER™





Claw Technology | Technical Data

| PUMP MODEL | MODULE | PUMP HP (QTY) | TANK SIZE | TOTAL HP | ACFM | DB(A) LEVEL | BTU/HR | WEIGHT | DIMENSION (IN) | | | OUTLET CONNECTION (FNPT) | INLET CONNECTION (FNPT) |
|------------|---------|---------------|-----------|----------|------|-------------|--------|--------|----------------|----|-----|--------------------------|-------------------------|
| | | | | | | | | | A | B | C | | |
| VLR-60 | Duplex | 2 (2) | 80 | 4 | 85 | 83 | 8872 | 820 | 78 | 38 | 66 | 1' | 1 ½" |
| | Triplex | 2 (3) | 80 | 6 | 127 | 85 | 13307 | 980 | 78 | 38 | 66 | 1 ½" | 2" |
| VLR-100 | Duplex | 3 (2) | 120 | 6 | 141 | 85 | 16037 | 1355 | 89 | 54 | 70 | 1 ½" | 2" |
| | Triplex | 3 (3) | 120 | 9 | 212 | 86 | 24056 | 1670 | 89 | 54 | 70 | 1 ½" | 2" |
| VLR-150 | Duplex | 5 (2) | 120 | 10 | 212 | 85 | 24226 | 1465 | 89 | 52 | 70 | 1 ½" | 2" |
| | Triplex | 5 (3) | 120 | 15 | 318 | 87 | 36339 | 1830 | 89 | 52 | 70 | 1 ½" | 2" |
| VLR-251 | Simplex | 7.5 | 120 | 7.5 | 150 | 78 | 16378 | 1030 | 89 | 37 | 71 | 1 ½" | 2" |
| | Duplex | 7.5 (2) | 240 | 15 | 300 | 81 | 32757 | 1850 | 99 | 59 | 77 | 2" | 2" |
| VLR-301 | Simplex | 7.5 | 120 | 7.5 | 205 | 77 | 22213 | 1320 | 89 | 37 | 74 | 1 ½" | 2" |
| | Duplex | 7.5 (2) | 240 | 15 | 410 | 80 | 44358 | 2410 | 99 | 60 | 77 | 2" | 2" |
| VLR-401 | Simplex | 12 | 240 | 12 | 285 | 81 | 31050 | 2100 | 90 | 39 | 105 | 3" | 3" |
| VLR-501 | Simplex | 12 | 240 | 12 | 355 | 81 | 44017 | 2290 | 90 | 39 | 105 | 3" | 3" |



Vane Technology | Technical Data

| PUMP MODEL | MODULE | PUMP HP (QTY) | TANK SIZE | TOTAL HP | ACFM | DB(A) LEVEL | BTU/HR | WEIGHT | DIMENSION (IN) | | | OUTLET CONNECTION (FNPT) | INLET CONNECTION (FNPT) |
|---------------|---------|---------------------|--------------|-------------|------|----------------|--------|--------|----------------|----|----|--------------------------------|-------------------------------|
| | | | | | | | | | A | B | C | | |
| VCS-50 | Duplex | 2 (2) | 80 | 4 | 71 | 70 | 9554 | 795 | 78 | 38 | 66 | 1 ¼" | 1 ½" |
| | Triplex | 2 (3) | 80 | 6 | 106 | 72 | 14331 | 940 | 78 | 38 | 66 | 1 ¼" | 1 ½" |
| VCS-75 | Duplex | 3 (2) | 80 | 6 | 99 | 71 | 12215 | 830 | 78 | 38 | 66 | 1 ¼" | 1 ½" |
| | Triplex | 3 (3) | 80 | 9 | 148 | 73 | 18323 | 995 | 78 | 38 | 66 | 1¼" | 1 ½" |
| VCS-100 | Duplex | 5 (2) | 120 | 10 | 141 | 72 | 14809 | 1290 | 89 | 50 | 70 | 2" | 2" |
| | Triplex | 5 (3) | 120 | 15 | 212 | 74 | 22213 | 1565 | 89 | 50 | 70 | 2" | 2" |
| VCS-150 | Duplex | 5 (2) | 120 | 10 | 212 | 73 | 21292 | 1290 | 89 | 50 | 70 | 2" | 2" |
| | Triplex | 5 (3) | 120 | 15 | 318 | 75 | 31938 | 1565 | 89 | 50 | 70 | 2" | 2" |
| VCS-200 | Simplex | 7.5 | 120 | 7.5 | 141 | 71 | 14809 | 1050 | 80 | 37 | 70 | 2" | 2" |
| | Duplex | 7.5 (2) | 240 | 15 | 282 | 74 | 29618 | 1880 | 99 | 55 | 77 | 2" | 2" |
| VCS-300 | Simplex | 10 | 120 | 10 | 212 | 72 | 21360 | 1085 | 80 | 37 | 70 | 2" | 2" |
| | Duplex | 10 (2) | 240 | 20 | 424 | 75 | 42720 | 1950 | 99 | 56 | 77 | 2" | 2" |
| VCS-400 | Simplex | 15 | 240 | 15 | 283 | 75 | 36169 | 2440 | 90 | 49 | 88 | 3" | 3" |
| VCS-500 | Simplex | 20 | 240 | 20 | 388 | 77 | 48794 | 2650 | 90 | 49 | 88 | 3" | 3" |
| VCS-700 | Simplex | 25 | 240 | 25 | 494 | 80 | 64831 | 2740 | 90 | 49 | 92 | 3" | 3" |



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