

AM VACUUM GENERATOR



- Three stage vacuum generator
- Lightweight construction
- Threaded ports in BSPP and NPSF
- High efficient multi stage technology
- Ideal for centralized vacuum systems
- Very quiet operation, as low as 45dB(A)w
- Can be used with Vacuforce ESK energy savings system
- Available with aluminum or PPS (polypropylene sulphide) Port Plate



| AM25L | B | | | | | N | A | | |
|--------|------------------------|------------|-------------|--------------|---------------------|---------------|--------------|-------------|-----|
| Model | Port Plate Designation | | | | | Seal Material | | Check Valve | |
| AM25L | Code | Air Supply | Vacuum Port | Exhaust Port | Port Plate Material | N | NBR | A | YES |
| AM50L | | | | | | E | EPDM | | NO |
| AM75L | AD | G1/4 | G3/4 | G3/4 | Aluminum | V | Fluorocarbon | | |
| AM100L | B | 1/8NPSF | 3/4NPT | 3/4NPT | PPS | | | | |
| AM150L | D | 1/8NPSF | G3/4 | G3/4 | PPS | | | | |
| | E | 1/4NPT | 3/4NPT | 3/4NPT | Aluminum | | | | |

Energy Saving Kits

This assembly connects directly to the AM and AL venturi models and offers an ON/OFF function for the vacuum generator depending on the vacuum level in the attached system. The switch has a set point range of -16 to -90kPa (5-27”Hg) and is ideal for centralized vacuum systems or systems using vacuum valves as the operator. Vacuum generator models with a non return valve (NRV or check valve) on the vacuum inlet should be ordered for use with the energy saving kit. Therefore the table below shows the designated suffix (A) for this option.

| Check Valve Model | ESK Part Ref |
|-------------------|--------------|
| AM25L-**-A | ESK25 |
| AM50L-**-A | |
| AM75L-**-A | |
| AM100L-**-A | ESK100 |
| AM150-**-A | ESK150 |

e.g AM100L-B-N-A



AM100L-B-N-A
assembled with ESK25

| SEAL KITS | Model | Kit NBR | Kit Viton | Kit EPDM | Spare Non Return Valves | | |
|-----------|-------|-------------|-------------|-------------|-------------------------|---------|-----------|
| | | | | | NBR | Viton | EPDM |
| | AM25 | 01.0025.402 | 01.0025.602 | 01.0025.802 | | | |
| | AM50 | | | | | | |
| | AM75 | 01.0075.404 | 01.0075.604 | 01.0075.804 | AMNRVNBR | AMNRVVT | AMNRVEPDM |
| | AM100 | | | | | | |
| | AM150 | 01.0125.404 | 01.0125.604 | 01.0125.804 | | | |



SPECIFICATIONS

| Model | Maximum Vacuum | Maximum Vacuum Flow l/min / CFM | Air Consumption @ 6bar / 87psi l/min / CFM | Weight (g) |
|--------|------------------|------------------------------------|---|------------|
| AM25L | -92kPa / 27.6"Hg | 420 / 15 | 185 / 6.5 | 675 |
| AM50L | | 700 / 25 | 370 / 13 | |
| AM75L | | 950 / 34 | 610 / 21 | 837 |
| AM100L | | 1010 / 36 | 720 / 25 | |
| AM150L | | 1400 / 49 | 810 / 28 | |

FLOW PERFORMANCE

| Model | Supply Pressure bar | Air Use l/min | Vacuum Flow (l/min) at Different Vacuum Levels (-kPa) | | | | | | | | | | Max Vacuum |
|--------|---------------------|---------------|---|------|-----|-----|-----|-----|-----|----|----|-----|------------|
| | | | 0 | 10 | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | |
| AM25L | 3.4 | 116 | 359 | 181 | 116 | 79 | 42 | 31 | 23 | 16 | 8 | 1.1 | -92kPa |
| | 6 | 185 | 419 | 241 | 125 | 99 | 82 | 65 | 38 | 12 | 3 | - | -89kPa |
| AM50L | 3.4 | 230 | 600 | 320 | 249 | 136 | 76 | 59 | 46 | 30 | 13 | 1.4 | -92kPa |
| | 6 | 370 | 699 | 509 | 289 | 195 | 161 | 116 | 70 | 22 | 8 | - | -89kPa |
| AM75L | 3.4 | 365 | 761 | 444 | 340 | 175 | 110 | 85 | 70 | 43 | 20 | 1.7 | -92kPa |
| | 6 | 610 | 951 | 710 | 379 | 286 | 229 | 170 | 100 | 32 | 11 | - | -89kPa |
| AM100L | 3.4 | 445 | 849 | 549 | 430 | 280 | 144 | 116 | 85 | 60 | 28 | 2.3 | -92kPa |
| | 6 | 720 | 1010 | 801 | 461 | 385 | 311 | 215 | 125 | 42 | 16 | - | -89kPa |
| AM150L | 3.4 | 655 | 1200 | 9830 | 549 | 359 | 215 | 170 | 130 | 90 | 36 | 5.1 | -92kPa |
| | 6 | 810 | 1500 | 1109 | 631 | 560 | 385 | 314 | 210 | 65 | 26 | - | -89kPa |

| Model | Supply Pressure psi | Air Use CFM | Vacuum Flow (CFM) at Different Vacuum Levels ("Hg) | | | | | | | | | | Max Vacuum |
|--------|---------------------|-------------|--|-------|------|------|------|------|------|------|------|------|------------|
| | | | 0 | 3 | 6 | 9 | 12 | 15 | 18 | 21 | 24 | 27 | |
| AM25L | 50 | 4.1 | 12.7 | 6.4 | 4.1 | 2.8 | 1.5 | 1.1 | 0.80 | 0.55 | 0.27 | 0.04 | 27.6"Hg |
| | 87 | 6.5 | 14.8 | 8.5 | 4.4 | 3.5 | 2.9 | 2.3 | 1.34 | 0.44 | 0.12 | - | 26.7"Hg |
| AM50L | 50 | 8.1 | 21.2 | 11.3 | 8.8 | 4.8 | 2.7 | 2.1 | 1.63 | 1.06 | 0.46 | 0.05 | 27.6"Hg |
| | 87 | 13.0 | 24.7 | 18.0 | 10.2 | 6.9 | 5.7 | 4.1 | 2.47 | 0.78 | 0.28 | - | 26.7"Hg |
| AM75L | 50 | 12.9 | 26.9 | 15.7 | 12.0 | 6.2 | 3.9 | 3.0 | 2.47 | 1.52 | 0.71 | 0.06 | 27.6"Hg |
| | 87 | 21.5 | 33.6 | 25.1 | 13.4 | 10.1 | 8.1 | 6.0 | 3.53 | 1.13 | 0.39 | - | 26.7"Hg |
| AM100L | 50 | 15.7 | 30.0 | 19.4 | 15.2 | 9.9 | 5.1 | 4.1 | 3.00 | 2.12 | 0.99 | 0.08 | 27.6"Hg |
| | 87 | 25.4 | 35.7 | 28.3 | 16.3 | 13.6 | 11.0 | 7.6 | 4.42 | 1.48 | 0.55 | - | 26.7"Hg |
| AM150L | 50 | 23.1 | 42.4 | 347.4 | 19.4 | 12.7 | 7.6 | 6.0 | 4.59 | 3.18 | 1.27 | 0.18 | 27.6"Hg |
| | 87 | 28.6 | 53.0 | 39.2 | 22.3 | 19.8 | 13.6 | 11.1 | 7.42 | 2.30 | 0.92 | - | 26.7"Hg |

AM VACUUM GENERATOR



TIME PERFORMANCE

| Model | Supply Pressure bar(g) | Air Use l/min | Time to Evacuate a Volume (s/l) to Specific Vacuum Levels (-kPa) | | | | | | | | | Max Vacuum -kPa |
|--------|------------------------|---------------|--|-------|-------|-------|------|-------|------|------|-----|-----------------|
| | | | 10 | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | |
| AM25L | 3.4 | 116 | 0.022 | 0.06 | 0.11 | 0.21 | 0.4 | 0.65 | 0.95 | 1.6 | 4 | -92 |
| | 6 | 185 | 0.018 | 0.05 | 0.08 | 0.18 | 0.25 | 0.4 | 0.62 | 1.55 | - | -89 |
| AM50L | 3.4 | 230 | 0.014 | 0.031 | 0.06 | 0.1 | 0.2 | 0.34 | 0.5 | 0.8 | 2.5 | -92 |
| | 6 | 370 | 0.01 | 0.022 | 0.048 | 0.08 | 0.11 | 0.2 | 0.35 | 0.78 | - | -89 |
| AM75L | 3.4 | 365 | 0.012 | 0.029 | 0.058 | 0.095 | 0.18 | 0.31 | 0.46 | 0.89 | 1.5 | -92 |
| | 6 | 610 | 0.009 | 0.019 | 0.045 | 0.075 | 0.13 | 0.18 | 0.31 | 0.7 | - | -89 |
| AM100L | 3.4 | 445 | 0.01 | 0.025 | 0.043 | 0.075 | 0.11 | 0.19 | 0.27 | 0.45 | 1.2 | -92 |
| | 6 | 720 | 0.007 | 0.018 | 0.038 | 0.055 | 0.8 | 0.12 | 0.19 | 0.47 | - | -89 |
| AM150L | 3.4 | 655 | 0.005 | 0.013 | 0.027 | 0.045 | 0.07 | 0.105 | 0.23 | 0.46 | 0.9 | -92kPa |
| | 6 | 810 | 0.003 | 0.009 | 0.014 | 0.03 | 0.06 | 0.095 | 0.2 | 0.8 | - | -89kPa |

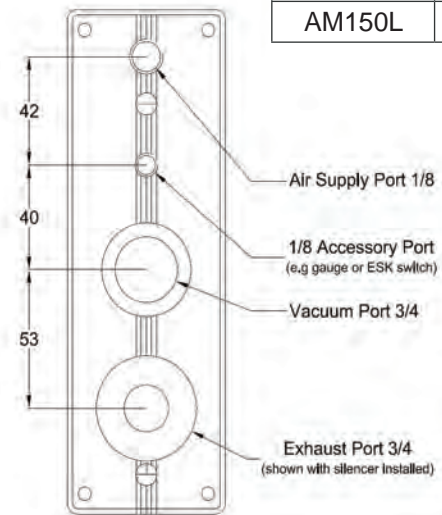
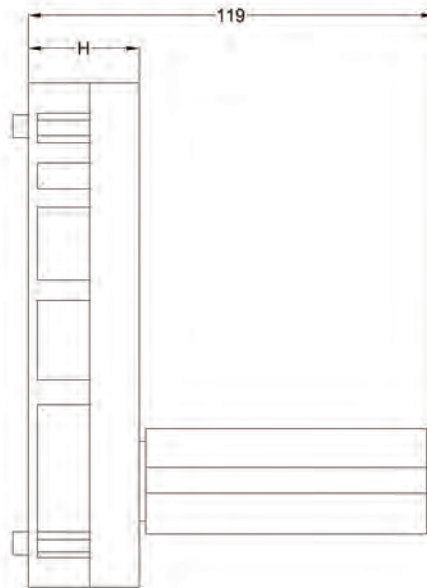
| Model | Supply Pressure psi | Air Use CFM | Time to Evacuate a Volume (s/ft³) to Specific Vacuum Levels ("Hg) | | | | | | | | | Max Vacuum "Hg |
|--------|---------------------|-------------|---|-------|-------|------|------|------|-------|-------|------|----------------|
| | | | 3 | 6 | 9 | 12 | 15 | 18 | 21 | 24 | 27 | |
| AM25L | 50psi | 4.1 | 0.616 | 1.68 | 3.08 | 5.88 | 11.2 | 18.2 | 26.6 | 44.8 | 112 | 27.6 |
| | 87psi | 6.5 | 0.504 | 1.4 | 2.24 | 5.04 | 7 | 11.2 | 17.36 | 43.4 | - | 26.7 |
| AM50L | 50psi | 8.1 | 0.392 | 0.868 | 1.68 | 2.8 | 5.6 | 9.52 | 14 | 22.4 | 70 | 27.6 |
| | 87psi | 13.0 | 0.28 | 0.616 | 1.344 | 2.24 | 3.08 | 5.6 | 9.8 | 21.84 | - | 26.7 |
| AM75L | 50psi | 12.9 | 0.336 | 0.812 | 1.624 | 2.66 | 5.04 | 8.68 | 12.88 | 24.92 | 42 | 27.6 |
| | 87psi | 21.5 | 0.252 | 0.532 | 1.26 | 2.1 | 3.64 | 5.04 | 8.68 | 19.6 | - | 26.7 |
| AM100L | 50psi | 15.7 | 0.28 | 0.7 | 1.204 | 2.1 | 3.08 | 5.32 | 7.56 | 12.6 | 33.6 | 27.6 |
| | 87psi | 25.4 | 0.196 | 0.504 | 1.064 | 1.54 | 22.4 | 3.36 | 5.32 | 13.16 | - | 26.7 |
| AM150L | 50psi | 23.1 | 0.14 | 0.364 | 0.756 | 1.26 | 1.96 | 2.94 | 6.44 | 12.88 | 25.2 | 27.6 |
| | 87psi | 28.6 | 0.084 | 0.252 | 0.392 | 0.84 | 1.68 | 2.66 | 5.6 | 22.4 | - | 26.7 |



DIMENSIONS (mm)

Standard Model

| Model | H |
|--------|----|
| AM25L | 45 |
| AM50L | |
| AM75L | 65 |
| AM100L | |
| AM150L | 85 |



DIMENSIONS (mm)

ESK Model

