



## *HXL400WV*

### ◆ Solid 6 Vane Rotor Design

- Higher Airflow Efficiency.
- Higher Dead Head Vacuum.
- Less Vane Wear.
- Less Cylinder Wear.
- Less Noise.
- Less Vibration.

### ◆ Mechanical Oil Pump

- Automatic Oiling.
- No Adjustment Required.
- Delivers Right Amount of Oil at All Working Levels.

### ◆ End Thrust Protection

- Prevents Rotor-to-Endcover Contact Created by Direct P.T.O. Drive or Misaligned Belt Driven Systems.

### ◆ Double End Shaft

- Accommodates Clockwise or Counter-Clockwise Drive Systems.

### ◆ Integral Valve

- Allows Pump to Operate in Vacuum and Pressure Mode.

### ◆ Liquid Cooled Design

- Prevents Winter Freeze-ups.
- Allows Pump to Operate @ 25" Hg Continuously.
- Reliable Operation Under Extreme Hot or Cold Weather Conditions.

### ◆ Masport Quality & Performance

- Achieve Minimum of 27" Hg (Intermittent).
- Bolt on Half Shafts.
- Precise Machining and Assembly.
- Heavy Duty Bearings.
- Viton Oil Seals for Longer Service Life.
- Kevlar Vanes are Heat Stabilized and Machined with Exacting Tolerances for Superior Ruggedness and Durability.
- Easy to Service.
- Superior Pump Life.

### ◆ Performance Warranty

- One Year Warranty.

# PERFORMANCE DATA

## Performance Data – Vacuum

| Pump R.P.M. | Displacement C.F.M. | S.C.F.M. and A.C.F.M. @ VACUUM |     |     |     |     |     |     |     |     |     |     | Maximum Vacuum – "Hg |              |
|-------------|---------------------|--------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----------------------|--------------|
|             |                     |                                | 5   | 10  | 15  | 18  | 20  | 22  | 24  | 25  | 26  | 27  | Continuous           | Intermittent |
| 1100        | 345                 | SCFM                           | 269 | 204 | 150 | 120 | 100 | 80  | 57  | 47  | 35  | 25  | 25                   | 27           |
|             |                     | ACFM                           | 323 | 306 | 300 | 300 | 300 | 300 | 300 | 282 | 263 | 250 |                      |              |
| 1275        | 400                 | SCFM                           | 312 | 237 | 175 | 140 | 117 | 93  | 66  | 54  | 41  | 29  | 25                   | 27           |
|             |                     | ACFM                           | 374 | 356 | 350 | 350 | 350 | 350 | 350 | 324 | 308 | 290 |                      |              |

## Performance Data – Pressure

| Pump R.P.M. | Displacement C.F.M. | S.C.F.M. @ P.S.I.G. |     |     |     |     |     | Maximum Pressure – P.S.I.G. |            |              |
|-------------|---------------------|---------------------|-----|-----|-----|-----|-----|-----------------------------|------------|--------------|
|             |                     | 5                   | 10  | 15  | 18  | 20  | 25  | 30                          | Continuous | Intermittent |
| 1100        | 345                 | 321                 | 307 | 292 | 275 | 258 | 243 | 224                         | 20         | 30           |
| 1275        | 400                 | 372                 | 356 | 339 | 319 | 300 | 282 | 264                         | 20         | 30           |

## Horsepower Required @ P.S.I.G.

| Pump R.P.M. | Horsepower @ P.S.I.G. |    |    |    |    |    |
|-------------|-----------------------|----|----|----|----|----|
|             | 5                     | 10 | 15 | 20 | 25 | 30 |
| 1100        | 20                    | 24 | 28 | 32 | 35 | 42 |
| 1275        | 24                    | 28 | 33 | 38 | 42 | 50 |

## Horsepower Required @ "Hg

| Pump R.P.M. | Vacuum "Hg |      |      |
|-------------|------------|------|------|
|             | 15         | 20   | 27   |
| 1100        | 15         | 16.5 | 17   |
| 1275        | 17.7       | 19.5 | 20.1 |

# DIMENSIONAL DATA

**HXL400WV Pump**

|   | HXL400WV    | HXL400WF    |
|---|-------------|-------------|
| A | 13 1/2      | 13 1/2      |
| B | 25 1/2      | 16 1/2      |
| C | 8 5/8       | 8 5/8       |
| D | 27 1/8      | 27 1/8      |
| E | 1 3/8       | 1 3/8       |
| F | 9 7/16      | 9 7/16      |
| G | 1/8         | 1/8         |
| H | 19 1/2      | -----       |
| J | 9/16        | 9/16        |
| K | 5/16X5/16X2 | 5/16X5/16X2 |
| L | 7 7/16      | 7 7/16      |
| M | 1/4         | 1/4         |
| N | 3           | 2 1/2       |
| O | 7 1/4       | 7 1/4       |
| P | 3 5/16      | 3 5/16      |
| Q | 3 13/16     | 3 13/16     |
| R | 8 1/2       | 8 1/2       |
| S | 12 1/2      | 12 1/2      |
| T | 4 9/16      | 4 9/16      |
| U | 3 7/16      | 3 7/16      |
| V | 5           | 5           |
| W | 5           | 5           |
| X | 8 1/4       | 8 1/4       |
| Y | 8 1/4       | 8 1/4       |

ALL DIMENSIONS IN INCHES.

For additional information on these quality Masport Vacuum / Pressure Pumps contact:



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