

NFPA 1901 RATING CHART

QMAX SERIES PUMP

RATED FROM 1000 GPM @ 150 PSI TO 2250 GPM @ 150 PSI
SINGLE STAGE PUMP - 10-1/2" IMPELLER

MAXIMUM ELEVATION AT WHICH THE PUMP WILL DO THE RATING WITH STANDARD TEST CONDITIONS OF 10 FT. LIFT, 20 FT. OF SUCTION HOSE & STRAINER.

QMAX100 5 IN. HOSE, 7500 FEET QMAX150 6 IN. HOSE, 3000 FEET
 QMAX100 6 IN. HOSE, 12500 FEET QMAX150 (2) 6 IN. HOSE, 9000 FEET
 QMAX125 6 IN. HOSE, 7500 FEET

MAXIMUM ELEVATION AT WHICH THE PUMP WILL DO THE RATING WITH STANDARD TEST CONDITIONS OF 8 FT. LIFT (QMAX175) - 6 FT. LIFT (QMAX200 & QMAX225), 20 FT. OF SUCTION HOSE & STRAINER.

QMAX175 (2) 6 IN. HOSE, 4500 FEET, QMAX200 (2) 6 IN. HOSE, 2000 FEET
 QMAX225 (3) 6 IN. HOSE, 2000 FEET

* ENGINE SPEED MUST NOT EXCEED MFR'S MAXIMUM NO-LOAD GOVERNED SPEED.
 ** THE PUMP IS CAPABLE OF THE HIGH PRESSURE PERFORMANCE SHOWN.
 ACTUAL OBTAINABLE PRESSURE SHOULD BE CHECKED IN ADVANCE, AND IS GOVERNED BY ENGINE SPEED, AVAILABLE HORSEPOWER AND PUMP RATIO.
 *** GAUGE PRESSURE DOES NOT INCLUDE LIFT OR SUCTION LOSSES.
 THIS CHART IS TO BE USED TO SELECT THE PROPER PUMP GEARBOX RATIO. (B)
 THE INPUT SPEED AND HORSEPOWER REQUIREMENTS SHOWN ARE NOMINAL ± 5% FIGURES. WHEN USING THIS CHART, IT IS IMPORTANT TO OBTAIN THE NET HORSEPOWER OUTPUT OF THE ENGINE. THE ENGINE MANUFACTURER'S PUBLISHED CURVE MAY NOT REPRESENT A TRUE NET HORSEPOWER WHEN TOTALING ALL THE POWER DEDUCTIONS THAT MAY BE ENCOUNTERED FOR THE NFPA 1901 TEST. THE DEDUCTIONS COULD BE ENGINE AND VEHICLE ACCESSORIES, ELEVATION, TEMPERATURE, BAROMETER, ETC.
 CHECK WITH THE ENGINE MANUFACTURER FOR THEIR RECOMMENDATION AND APPROVAL OF A NET HORSEPOWER CURVE.
 FOR ROAD OPERATION, ENGINE TORQUE ON PUMP DRIVE LINE SHOULD BE CHECKED PER HALE FORM F-72.

E-1149B

| RATED CAPACITY (US GPM) | CAPACITY (US GPM) | PRESSURE (PSIG) *** | HORSEPOWER REQUIRED | "L OR S" GEARBOX INPUT DRIVE SHAFT (RPM)* | | | | | RATED CAPACITY (US GPM) | CAPACITY (US GPM) | PRESSURE (PSIG) *** | HORSEPOWER REQUIRED | "X" GEARBOX INPUT DRIVE SHAFT (RPM) * | | | | | HALE PRODUCTS, INC. A Unit of IDEX Corporation Conshohocken, PA 19428 USA | SCALE: FULL |
|-------------------------|-------------------|---------------------|---------------------|---|------------|------------|------------|------------|-------------------------|-------------------|---------------------|---------------------|---------------------------------------|------------|------------|------------|------------|---|--------------|
| | | | | RATIO | RATIO | RATIO | RATIO | RATIO | | | | | RATIO | RATIO | RATIO | RATIO | RATIO | | |
| 1000 | PUMP MODEL | | | QMAX100-23 | QMAX100-21 | QMAX100-19 | QMAX100-17 | QMAX100-15 | 1000 | PUMP MODEL | | | QMAX100-28 | QMAX100-25 | QMAX100-23 | QMAX100-21 | QMAX100-19 | HALE PRODUCTS, INC. A Unit of IDEX Corporation Conshohocken, PA 19428 USA | DATE 1-20-98 |
| | 1000 150 127 | 1430 | 1590 | 1750 | 1910 | 2060 | 1150 | 1280 | | 1400 | 1530 | 1660 | | | | | | | |
| | 1000 165 141 | 1480 | 1650 | 1820 | 1980 | 2140 | 1190 | 1330 | | 1460 | 1590 | 1730 | | | | | | | |
| | 700 200 142 | 1560 | 1740 | 1910 | 2080 | 2250 | 1260 | 1400 | | 1530 | 1670 | 1810 | | | | | | | |
| | 500 250 164 | 1730 | 1920 | 2120 | 2300 | 2490 | 1390 | 1540 | | 1700 | 1850 | 2010 | | | | | | | |
| 1250 | PUMP MODEL | | | QMAX125-23 | QMAX125-21 | QMAX125-19 | QMAX125-17 | QMAX125-15 | 1250 | PUMP MODEL | | | QMAX125-28 | QMAX125-25 | QMAX125-23 | QMAX125-21 | QMAX125-19 | DATE 1-20-98 | |
| | 1250 150 152 | 1430 | 1590 | 1750 | 1910 | 2060 | 1150 | 1280 | | 1400 | 1530 | 1660 | | | | | | | |
| | 1250 165 166 | 1480 | 1650 | 1820 | 1980 | 2140 | 1190 | 1330 | | 1460 | 1590 | 1730 | | | | | | | |
| | 875 200 159 | 1560 | 1740 | 1910 | 2080 | 2250 | 1260 | 1400 | | 1530 | 1670 | 1810 | | | | | | | |
| | 625 250 180 | 1730 | 1920 | 2120 | 2300 | 2490 | 1390 | 1540 | | 1700 | 1850 | 2010 | | | | | | | |
| 1500 | PUMP MODEL | | | QMAX150-23 | QMAX150-21 | QMAX150-19 | QMAX150-17 | QMAX150-15 | 1500 | PUMP MODEL | | | QMAX150-28 | QMAX150-25 | QMAX150-23 | QMAX150-21 | QMAX150-19 | DATE 1-20-98 | |
| | 1500 150 186 | 1490 | 1650 | 1820 | 1980 | 2150 | 1200 | 1330 | | 1460 | 1590 | 1730 | | | | | | | |
| | 1500 165 203 | 1540 | 1710 | 1890 | 2050 | 2220 | 1240 | 1380 | | 1520 | 1650 | 1790 | | | | | | | |
| | 1050 200 180 | 1590 | 1770 | 1950 | 2120 | 2300 | 1280 | 1420 | | 1560 | 1700 | 1850 | | | | | | | |
| | 750 250 195 | 1730 | 1930 | 2120 | 2310 | 2500 | 1390 | 1550 | | 1700 | 1860 | 2020 | | | | | | | |
| 1750 | PUMP MODEL | | | QMAX175-23 | QMAX175-21 | QMAX175-19 | QMAX175-17 | QMAX175-15 | 1750 | PUMP MODEL | | | QMAX175-28 | QMAX175-25 | QMAX175-23 | QMAX175-21 | QMAX175-19 | DATE 1-20-98 | |
| | 1750 150 205 | 1510 | 1680 | 1850 | 2020 | 2180 | 1220 | 1350 | | 1480 | 1620 | 1760 | | | | | | | |
| | 1750 165 226 | 1570 | 1750 | 1920 | 2090 | 2270 | 1270 | 1410 | | 1540 | 1680 | 1830 | | | | | | | |
| | 1225 200 196 | 1590 | 1770 | 1950 | 2120 | 2290 | 1280 | 1420 | | 1560 | 1700 | 1850 | | | | | | | |
| | 875 250 203 | 1720 | 1910 | 2110 | 2290 | 2480 | 1390 | 1540 | | 1690 | 1840 | 2000 | | | | | | | |
| 2000 | PUMP MODEL | | | QMAX200-23 | QMAX200-21 | QMAX200-19 | QMAX200-17 | QMAX200-15 | 2000 | PUMP MODEL | | | QMAX200-28 | QMAX200-25 | QMAX200-23 | QMAX200-21 | QMAX200-19 | DATE 1-20-98 | |
| | 2000 150 240 | 1560 | 1740 | 1910 | 2080 | 2250 | 1260 | 1400 | | 1530 | 1670 | 1810 | | | | | | | |
| | 2000 165 262 | 1610 | 1800 | 1980 | 2150 | 2330 | 1300 | 1450 | | 1590 | 1730 | 1880 | | | | | | | |
| | 1400 200 217 | 1610 | 1800 | 1980 | 2150 | 2330 | 1300 | 1450 | | 1590 | 1730 | 1880 | | | | | | | |
| | 1000 250 220 | 1720 | 1910 | 2110 | 2290 | 2480 | 1390 | 1540 | | 1690 | 1840 | 2000 | | | | | | | |
| 2250 | PUMP MODEL | | | QMAX225-23 | QMAX225-21 | QMAX225-19 | QMAX225-17 | QMAX225-15 | 2250 | PUMP MODEL | | | QMAX225-28 | QMAX225-25 | QMAX225-23 | QMAX225-21 | QMAX225-19 | DATE 1-20-98 | |
| | 2250 150 286 | 1640 | 1830 | 2020 | 2190 | 2370 | 1330 | 1470 | | 1620 | 1760 | 1910 | | | | | | | |
| | 2250 165 298 | 1700 | 1880 | 2080 | 2260 | 2450 | 1370 | 1520 | | 1670 | 1820 | 1970 | | | | | | | |
| | 1575 200 250 | 1670 | 1850 | 2040 | 2220 | 2400 | 1340 | 1490 | | 1640 | 1780 | 1940 | | | | | | | |
| | 1125 250 250 | 1740 | 1930 | 2130 | 2320 | 2500 | 1400 | 1550 | | 1710 | 1860 | 2020 | | | | | | | |
| ** HIGH PRESSURE | 200 350 210 | 2000 | 2220 | 2450 | 2670 | 2890 | 1610 | 1790 | 1960 | 2140 | 2320 | E-1149B | | | | | | | |
| 60 400 250 | 2130 | 2370 | 2610 | 2840 | 3080 | 1710 | 1900 | 2090 | 2280 | 2470 | | | | | | | | | |



HALE PRODUCTS, INC.
 A Unit of IDEX Corporation
 Conshohocken, PA 19428 USA

DATE 1-20-98
 DRAWN BY: []
 CHECKED BY: []
 RELEASE TO PRODUCTION: []
 UPDATED HP, ADDED ± %: []

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