ซุปเปอร์

# เฮอร์ริเคน

## 4” เครื่องสูบน้ำบาดาล สเตนเลส

## สลัดทราย ได้ดีที่สุด

*ใช้งานกับบ่อบาดาลทุกประเภท*

**Powered by**
**Franklin Electric, U.S.A.**

ISO 9002

# ซุปเปอร์ เฮอร์ริเคน
# 4” เครื่องสูบน้ำบาดาล สเตนเลส

SUPER HURRICANE
4" SUBMERSIBLE PUMPS

## คุณลักษณะพิเศษ

ใบพัดแบบลอยตัว (Impellers are floating type)

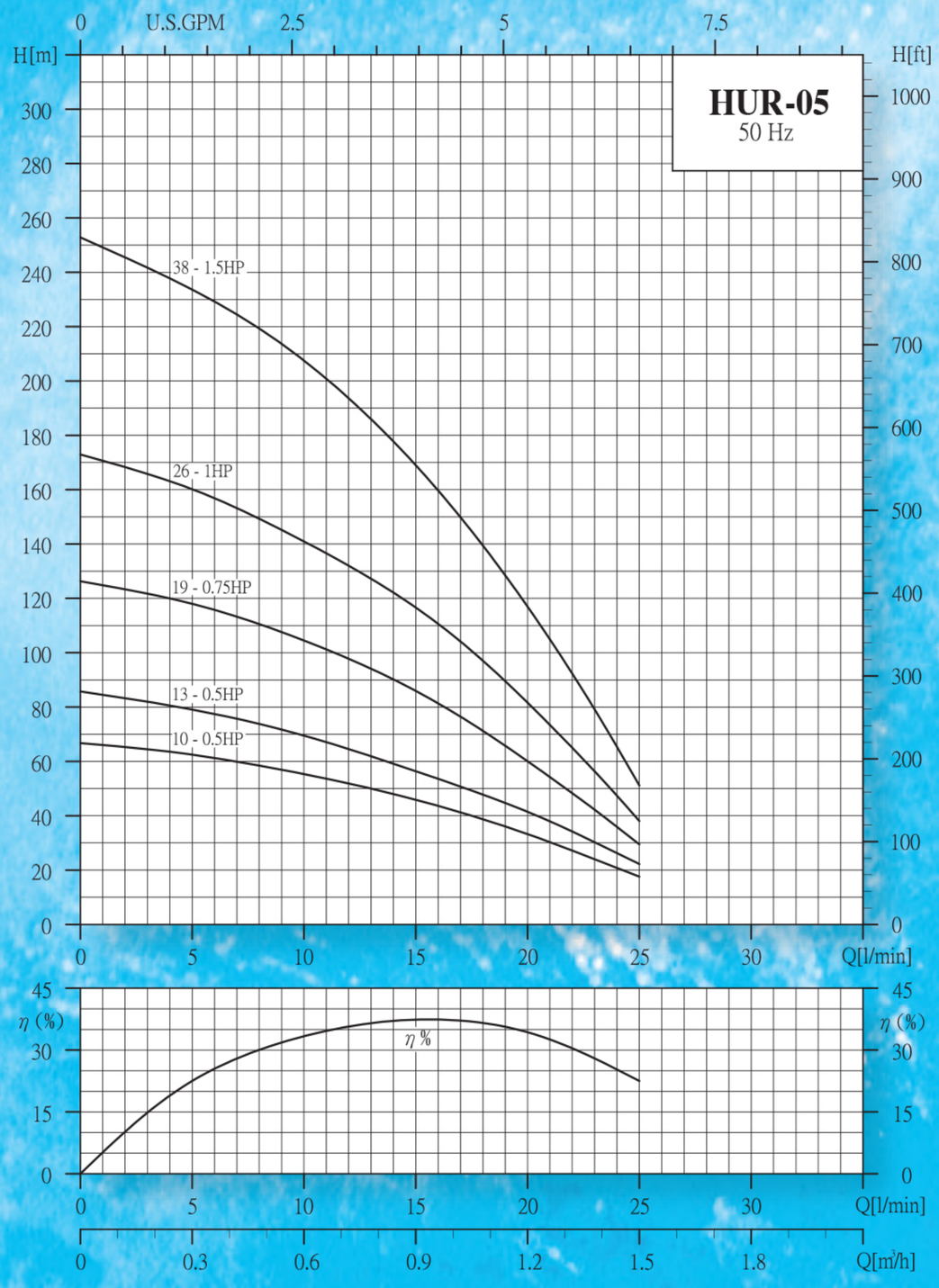
ระบบสลัดทรายได้ดีที่สุด เพิ่มประสิทธิภาพให้ปริมาณน้ำและกำลังส่งสูงมากกว่ารุ่นอื่นๆ เมื่อใช้งาน

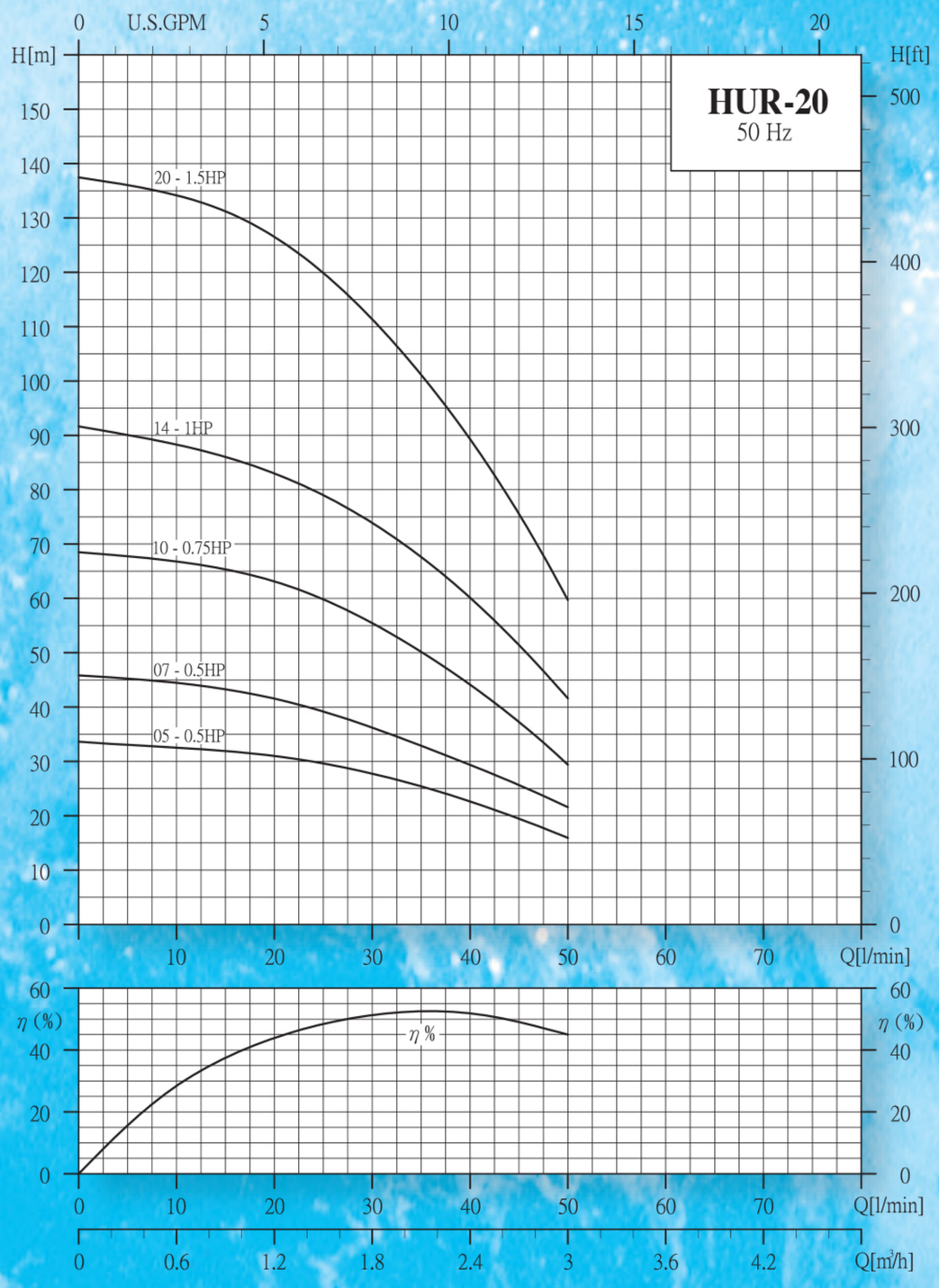
## อุปกรณ์ชิ้นส่วนที่ผลิตจากสเตนเลส (STAINLES STEEL)

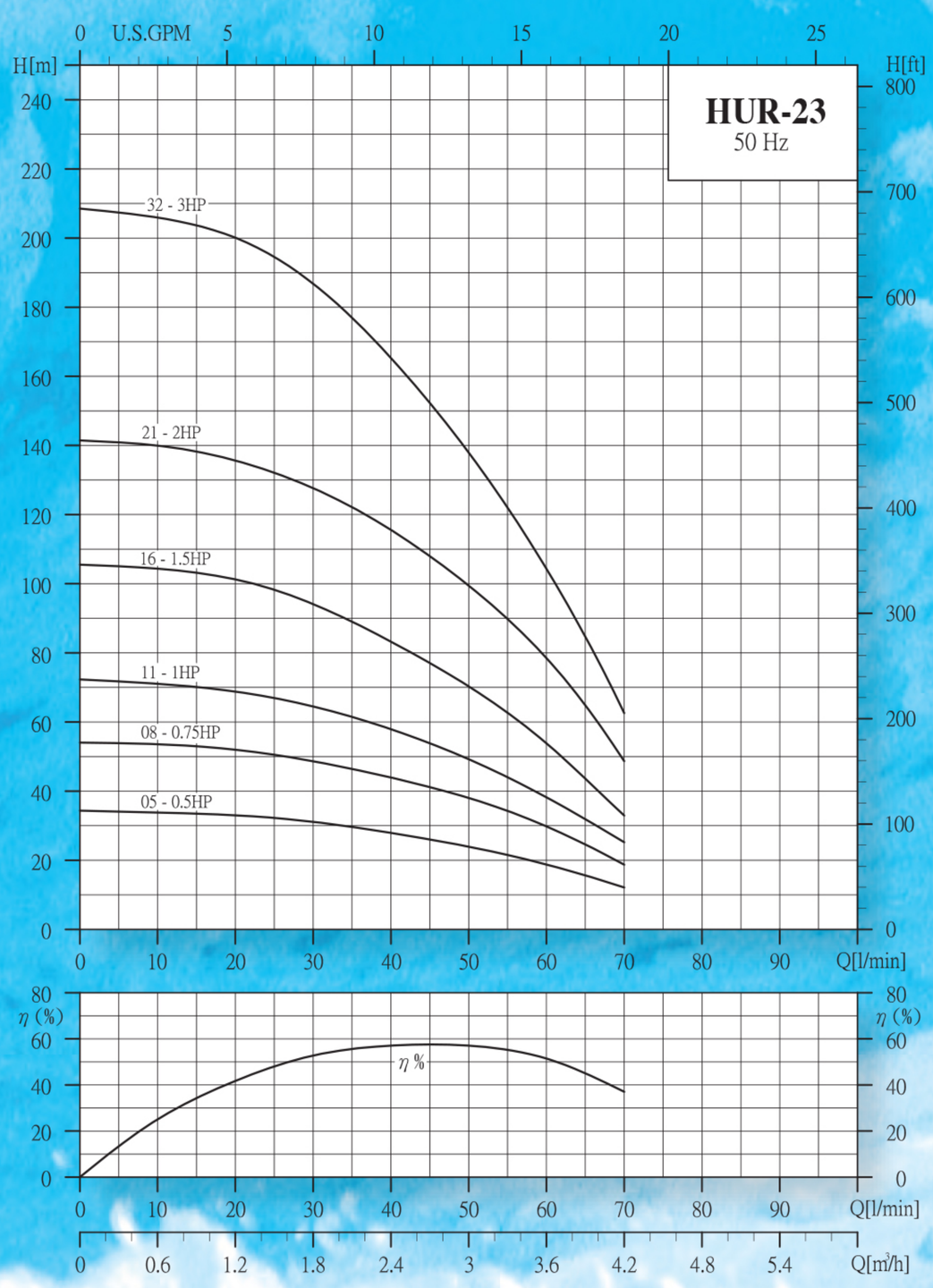
- OUTLET DISCHARGE - หัวจ่ายเครื่องสูบ
- CHECK - VALVE BUILD - IN - เช็ควาลว์ในตัว
- PUMP CASING - ตัวเสื้อเครื่องสูบ
- DIFFUSER - เถาของเครื่องสูบ
- SHAFT - แกนปั้ม
- CABLE GUARD - ฝาครอบสายไฟ
- SHAFT COUPLING - ข้อต่อเพลา
- STAINER - แผ่นกรอง
- MOTOR BRACKET - ฐานเครื่องสูบ

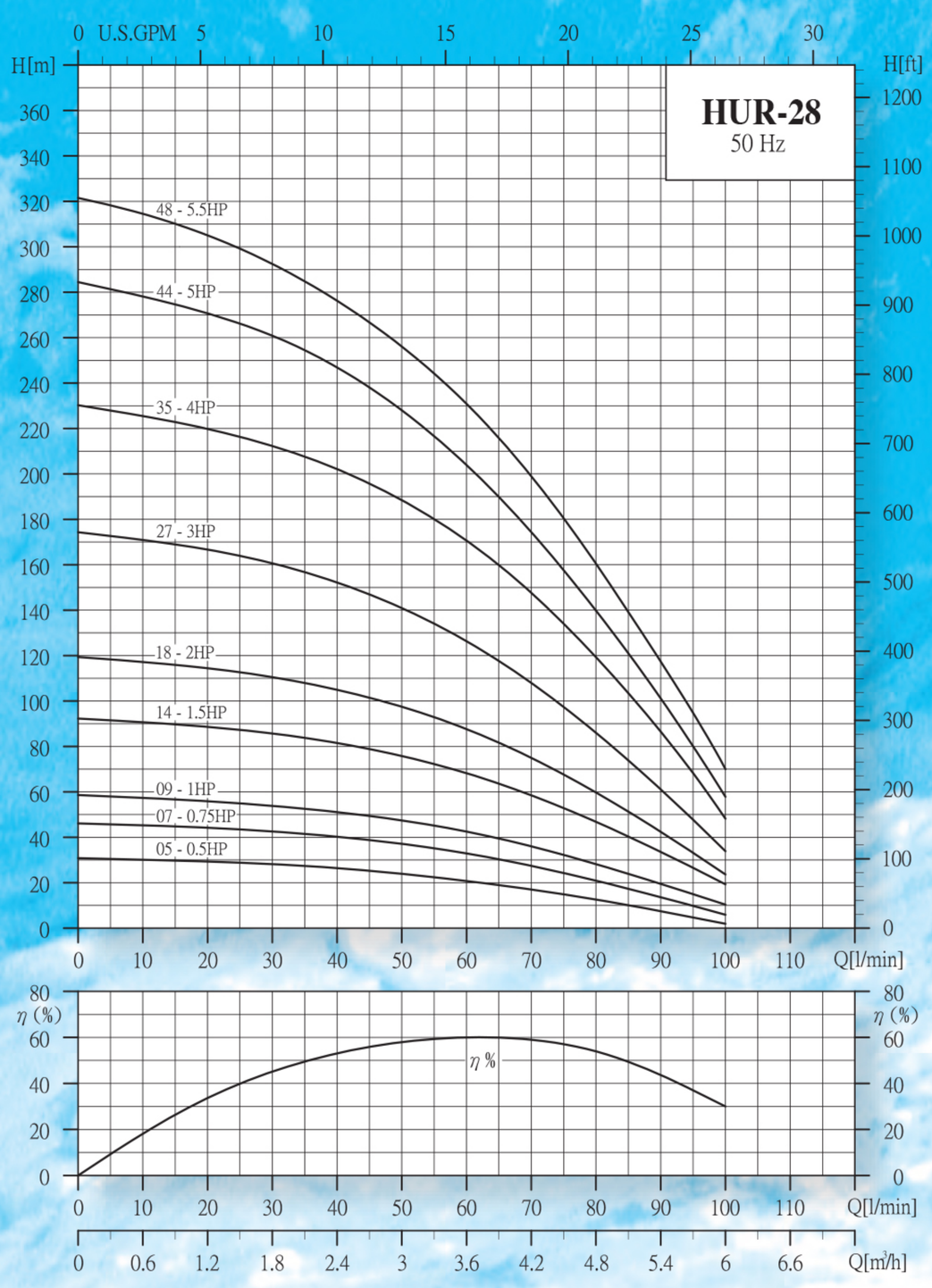
| รุ่น | จำนวนใบพัด | มอเตอร์ | | Q = ปริมาณน้ำ | | | | | | | | | | | | | | | | | | | | ปั๊ม | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | ลิตร/นาที | 5 | 10 | 15 | 20 | 25 | 30 | 35 | 40 | 45 | 50 | 60 | 70 | 80 | 90 | 100 | 120 | 140 | 160 | 180 | 200 | | |
| | | วัตต์ | แรงม้า | คิว/ชม. | 0.3 | 0.6 | 0.9 | 1.2 | 1.5 | 1.8 | 2.1 | 2.4 | 2.7 | 3.0 | 3.6 | 4.2 | 4.8 | 5.4 | 6.0 | 7.2 | 8.4 | 9.6 | 10.8 | 12 | ความยาว (mm) | น้ำหนัก (kg) |
| | | | | H = ความสูงเป็นเมตร | | | | | | | | | | | | | | | | | | | | | |
| HUR-0510 | 10 | 0.37 | 0.5 | 67 | 63 | 55 | 46 | 33 | 18 | | | | | | | | | | | | | | | 324 | 3.3 |
| HUR-0513 | 13 | 0.37 | 0.5 | 86 | 78 | 70 | 56 | 42 | 23 | | | | | | | | | | | | | | | 377 | 3.7 |
| HUR-0519 | 19 | 0.55 | 0.75 | 126 | 118 | 105 | 86 | 60 | 30 | | | | | | | | | | | | | | | 481 | 4.7 |
| HUR-0526 | 26 | 0.75 | 1 | 173 | 160 | 141 | 117 | 81 | 39 | | | | | | | | | | | | | | | 642 | 5.8 |
| HUR-0538 | 38 | 1.1 | 1.5 | 253 | 234 | 208 | 169 | 117 | 52 | | | | | | | | | | | | | | | 864 | 8.2 |
| HUR-2005 | 5 | 0.37 | 0.5 | 34 | | | 32 | 31 | 29 | 27 | 25 | 23 | 19 | 16 | | | | | | | | | | 236 | 2.5 |
| HUR-2007 | 7 | 0.37 | 0.5 | 46 | | | 43 | 42 | 40 | 36 | 33 | 29 | 26 | 22 | | | | | | | | | | 271 | 2.8 |
| HUR-2010 | 10 | 0.55 | 0.75 | 69 | | | 65 | 63 | 60 | 55 | 50 | 44 | 37 | 29 | | | | | | | | | | 324 | 3.3 |
| HUR-2014 | 14 | 0.75 | 1.0 | 92 | | | 86 | 83 | 79 | 74 | 67 | 60 | 52 | 42 | | | | | | | | | | 394 | 3.9 |
| HUR-2020 | 20 | 1.1 | 1.5 | 139 | | | 131 | 127 | 120 | 111 | 101 | 90 | 75 | 60 | | | | | | | | | | 499 | 4.9 |
| HUR-2305 | 5 | 0.37 | 0.5 | 34 | | | | 32 | 31 | 30 | 29 | 28 | 26 | 24 | 19 | 13 | | | | | | | | 236 | 2.5 |
| HUR-2308 | 8 | 0.55 | 0.75 | 54 | | | | 51 | 50 | 49 | 46 | 43 | 41 | 38 | 30 | 19 | | | | | | | | 289 | 2.9 |
| HUR-2311 | 11 | 0.75 | 1.0 | 72 | | | | 68 | 66 | 64 | 61 | 58 | 54 | 49 | 38 | 26 | | | | | | | | 342 | 3.4 |
| HUR-2316 | 16 | 1.1 | 1.5 | 106 | | | | 101 | 98 | 95 | 89 | 83 | 77 | 70 | 54 | 33 | | | | | | | | 430 | 4.2 |
| HUR-2321 | 21 | 1.5 | 2.0 | 142 | | | | 135 | 132 | 127 | 122 | 115 | 108 | 100 | 79 | 49 | | | | | | | | 519 | 5.0 |
| HUR-2332 | 32 | 2.2 | 3.0 | 208 | | | | 200 | 194 | 187 | 177 | 165 | 152 | 138 | 104 | 62 | | | | | | | | 749 | 7.1 |
| HUR-2805 | 5 | 0.37 | 0.5 | 33 | | | | | 29 | 28 | 27 | 26 | 25 | 24 | 21 | 18 | 13 | 8 | 3 | | | | | 257 | 2.7 |
| HUR-2807 | 7 | 0.55 | 0.75 | 46 | | | | | 43 | 42 | 41 | 40 | 39 | 37 | 33 | 28 | 21 | 13 | 7 | | | | | 301 | 3.0 |
| HUR-2809 | 9 | 0.75 | 1.0 | 59 | | | | | 55 | 54 | 52 | 51 | 49 | 47 | 43 | 37 | 28 | 20 | 10 | | | | | 344 | 3.3 |
| HUR-2814 | 14 | 1.1 | 1.5 | 93 | | | | | 87 | 86 | 83 | 81 | 79 | 76 | 68 | 58 | 47 | 33 | 20 | | | | | 452 | 4.1 |
| HUR-2818 | 18 | 1.5 | 2.0 | 120 | | | | | 113 | 111 | 108 | 105 | 102 | 98 | 88 | 75 | 60 | 42 | 25 | | | | | 538 | 4.7 |
| HUR-2827 | 27 | 2.2 | 3.0 | 175 | | | | | 164 | 161 | 157 | 152 | 147 | 141 | 127 | 109 | 87 | 61 | 35 | | | | | 767 | 6.2 |
| HUR-2835 | 35 | 3.0 | 4.0 | 231 | | | | | 217 | 212 | 208 | 202 | 196 | 189 | 170 | 149 | 120 | 87 | 50 | | | | | 934 | 7.9 |
| HUR-2844 | 44 | 3.7 | 5.0 | 285 | | | | | 266 | 260 | 254 | 248 | 238 | 229 | 203 | 172 | 139 | 100 | 59 | | | | | 1128 | 9.3 |
| HUR-2848 | 48 | 4.0 | 5.5 | 322 | | | | | 299 | 292 | 285 | 276 | 267 | 256 | 231 | 199 | 160 | 118 | 70 | | | | | 1253 | 9.9 |
| HUR-3504 | 4 | 0.37 | 0.5 | 26 | | | | | | | 23 | 22 | 21 | 21 | 20 | 18 | 15 | 12 | 9 | | | | | 247 | 2.4 |
| HUR-3506 | 6 | 0.55 | 0.75 | 38 | | | | | | | 36 | 35 | 34 | 33 | 31 | 28 | 25 | 21 | 16 | 5 | | | | 296 | 2.9 |
| HUR-3508 | 8 | 0.75 | 1.0 | 51 | | | | | | | 48 | 47 | 46 | 45 | 42 | 39 | 34 | 29 | 23 | 10 | | | | 345 | 3.3 |
| HUR-3512 | 12 | 1.1 | 1.5 | 77 | | | | | | | 72 | 71 | 69 | 68 | 63 | 58 | 50 | 41 | 32 | 12 | | | | 433 | 4.1 |
| HUR-3516 | 16 | 1.5 | 2.0 | 102 | | | | | | | 98 | 97 | 95 | 92 | 87 | 80 | 70 | 60 | 48 | 20 | | | | 542 | 5.0 |
| HUR-3524 | 24 | 2.2 | 3.0 | 151 | | | | | | | 144 | 141 | 138 | 135 | 126 | 115 | 102 | 88 | 69 | 30 | | | | 777 | 6.6 |
| HUR-3532 | 32 | 3.0 | 4.0 | 203 | | | | | | | 195 | 192 | 188 | 185 | 173 | 160 | 143 | 123 | 100 | 50 | | | | 965 | 8.7 |
| HUR-3540 | 40 | 3.7 | 5.0 | 253 | | | | | | | 242 | 238 | 233 | 228 | 215 | 198 | 179 | 155 | 129 | 66 | | | | 1160 | 10.4 |
| HUR-3544 | 44 | 4.0 | 5.5 | 278 | | | | | | | 264 | 260 | 254 | 248 | 232 | 213 | 192 | 167 | 139 | 71 | | | | 1296 | 11.2 |
| HUR-4507 | 7 | 0.75 | 1.0 | 42 | | | | | | | | | | 36 | 34 | 32 | 30 | 28 | 25 | 19 | 11 | | | 390 | 3.7 |
| HUR-4510 | 10 | 1.1 | 1.5 | 62 | | | | | | | | | | 53 | 51 | 48 | 45 | 41 | 3 | 29 | 18 | | | 483 | 4.6 |
| HUR-4514 | 14 | 1.5 | 2.0 | 90 | | | | | | | | | | 77 | 74 | 71 | 68 | 63 | 59 | 46 | 28 | | | 607 | 5.7 |
| HUR-4520 | 20 | 2.2 | 3.0 | 125 | | | | | | | | | | 107 | 102 | 97 | 92 | 86 | 80 | 62 | 40 | | | 831 | 7.5 |
| HUR-4527 | 27 | 3.0 | 4.0 | 169 | | | | | | | | | | 145 | 139 | 131 | 123 | 115 | 107 | 84 | 55 | | | 1048 | 9.6 |
| HUR-4534 | 34 | 3.7 | 5.0 | 208 | | | | | | | | | | 178 | 170 | 162 | 153 | 143 | 132 | 103 | 66 | | | 1257 | 11.6 |
| HUR-4536 | 36 | 4 | 5.5 | 221 | | | | | | | | | | 190 | 181 | 173 | 164 | 154 | 143 | 112 | 72 | | | 1318 | 12.2 |
| HUR-4549 | 49 | 5.5 | 7.5 | 302 | | | | | | | | | | 257 | 246 | 234 | 222 | 209 | 193 | 151 | 96 | | | 1802 | 15.9 |
| HUR-5004 | 4 | 0.75 | 1.0 | 26 | | | | | | | | | | | | | 24 | 23 | 22 | 21 | 19 | 17 | 15 | 12 | 294 | 2.8 |
| HUR-5006 | 6 | 1.1 | 1.5 | 39 | | | | | | | | | | | | | 36 | 35 | 34 | 32 | 29 | 26 | 22 | 17 | 356 | 3.4 |
| HUR-5008 | 8 | 1.5 | 2.0 | 52 | | | | | | | | | | | | | 48 | 47 | 46 | 43 | 39 | 35 | 29 | 24 | 418 | 4.0 |
| HUR-5013 | 13 | 2.2 | 3.0 | 82 | | | | | | | | | | | | | 75 | 73 | 71 | 66 | 59 | 50 | 40 | 30 | 573 | 5.5 |
| HUR-5017 | 17 | 3.0 | 4.0 | 108 | | | | | | | | | | | | | 98 | 96 | 94 | 87 | 79 | 70 | 58 | 46 | 697 | 6.6 |
| HUR-5021 | 21 | 3.7 | 5.0 | 132 | | | | | | | | | | | | | 117 | 114 | 111 | 103 | 93 | 82 | 68 | 52 | 859 | 7.8 |
| HUR-5023 | 23 | 4.0 | 5.5 | 148 | | | | | | | | | | | | | 134 | 131 | 127 | 118 | 108 | 95 | 79 | 60 | 921 | 8.4 |
| HUR-5032 | 32 | 5.5 | 7.5 | 202 | | | | | | | | | | | | | 182 | 178 | 172 | 160 | 143 | 125 | 105 | 80 | 1238 | 11.0 |

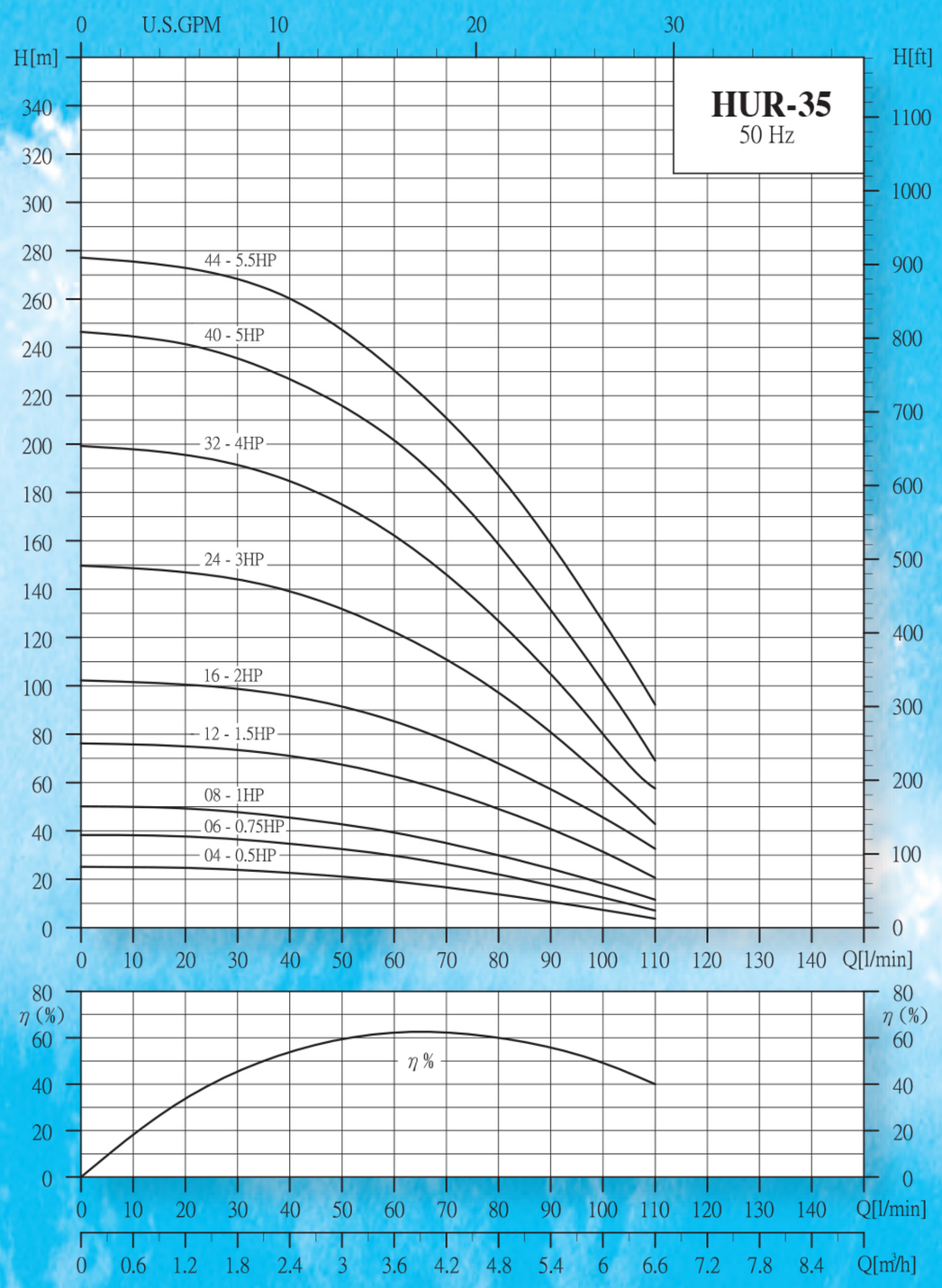
# Performance Curves

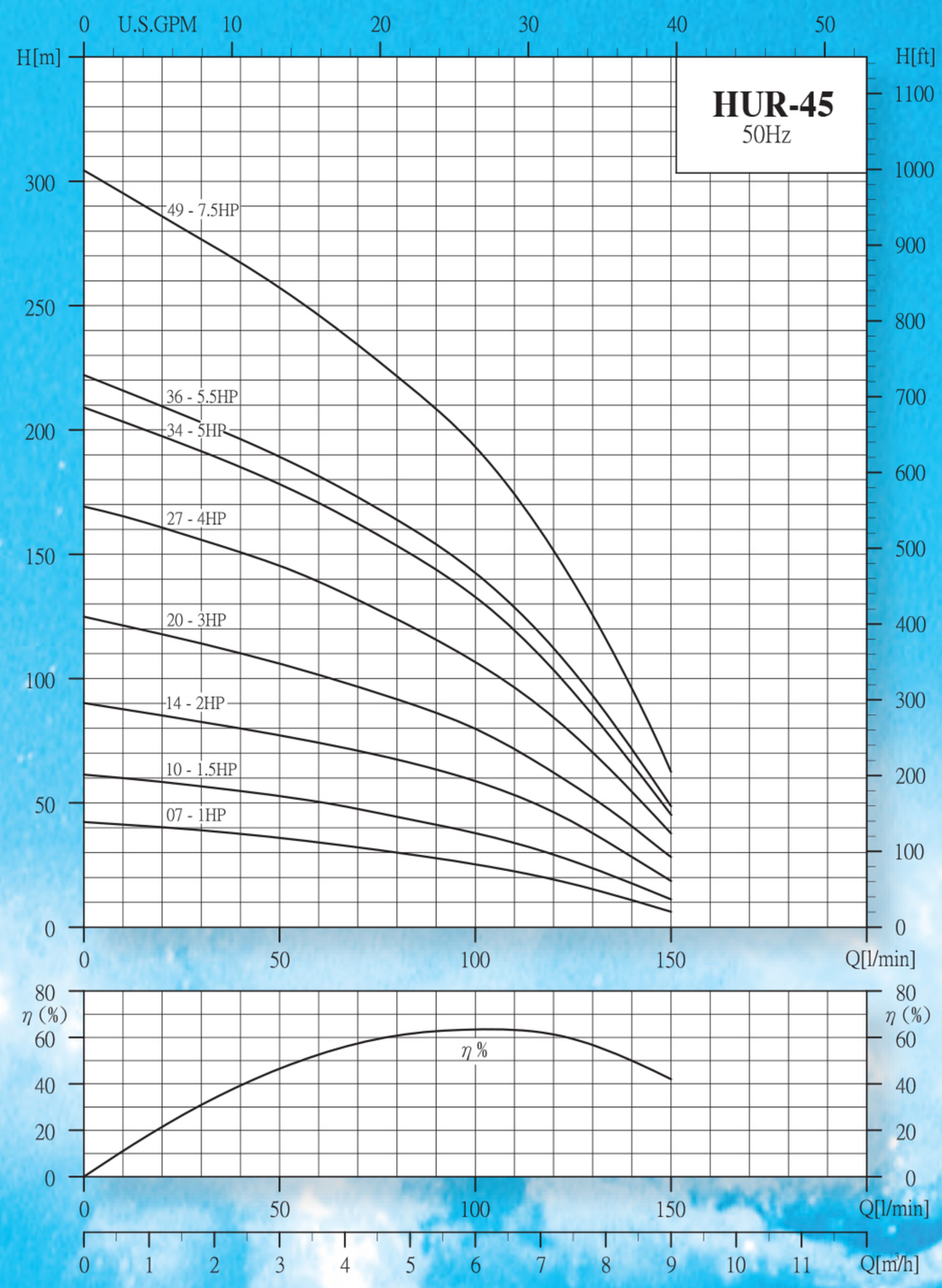


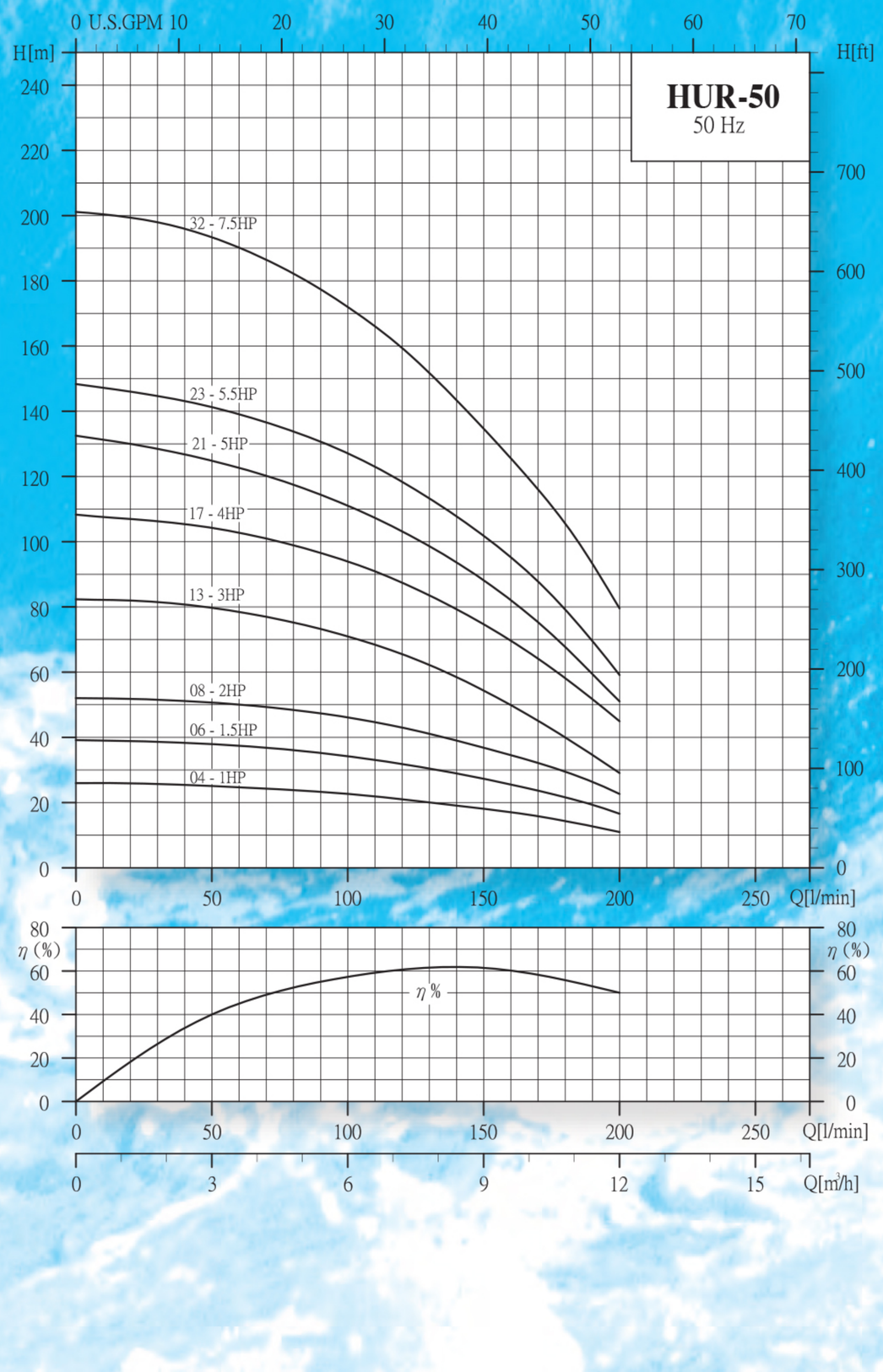



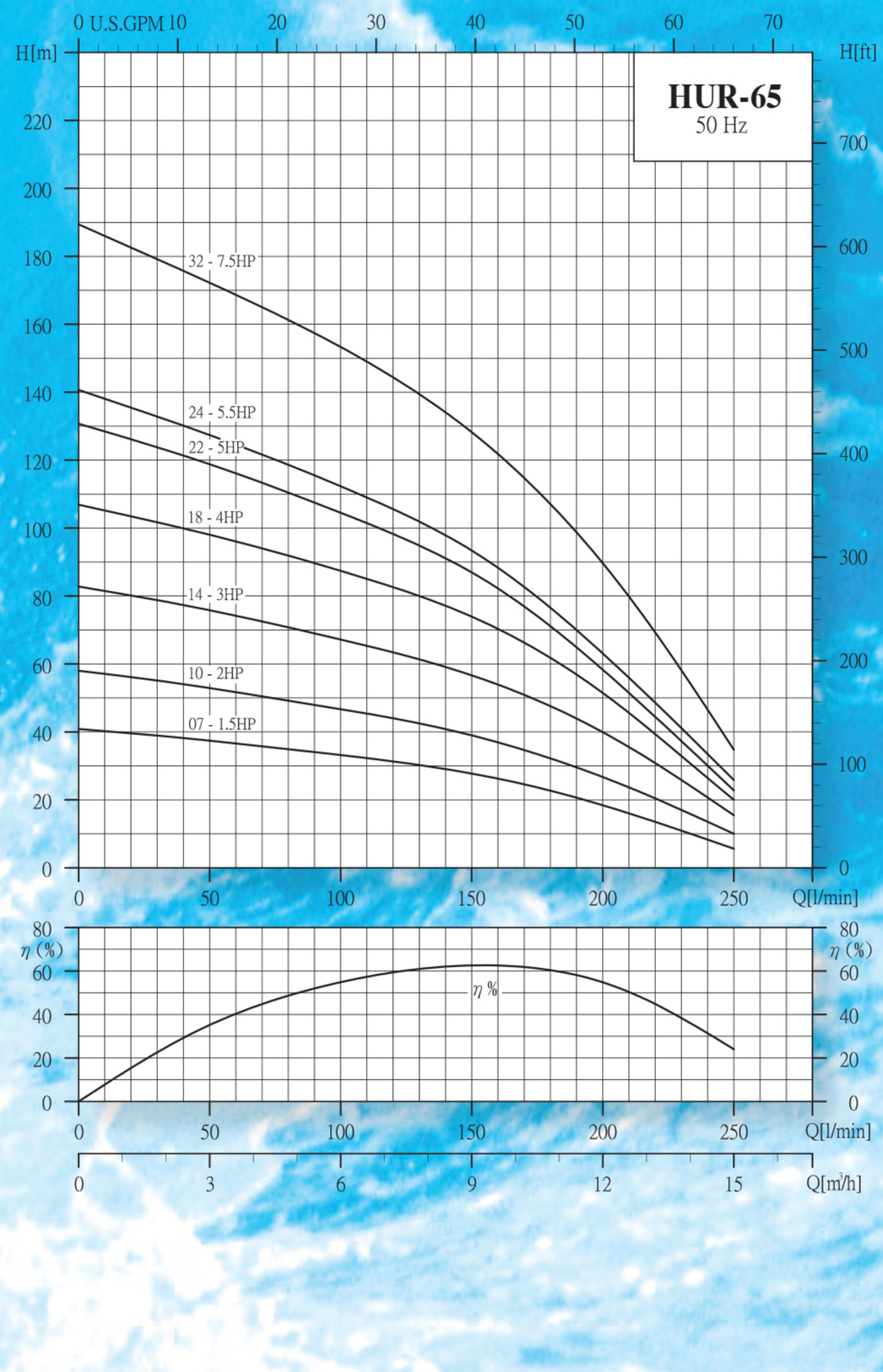



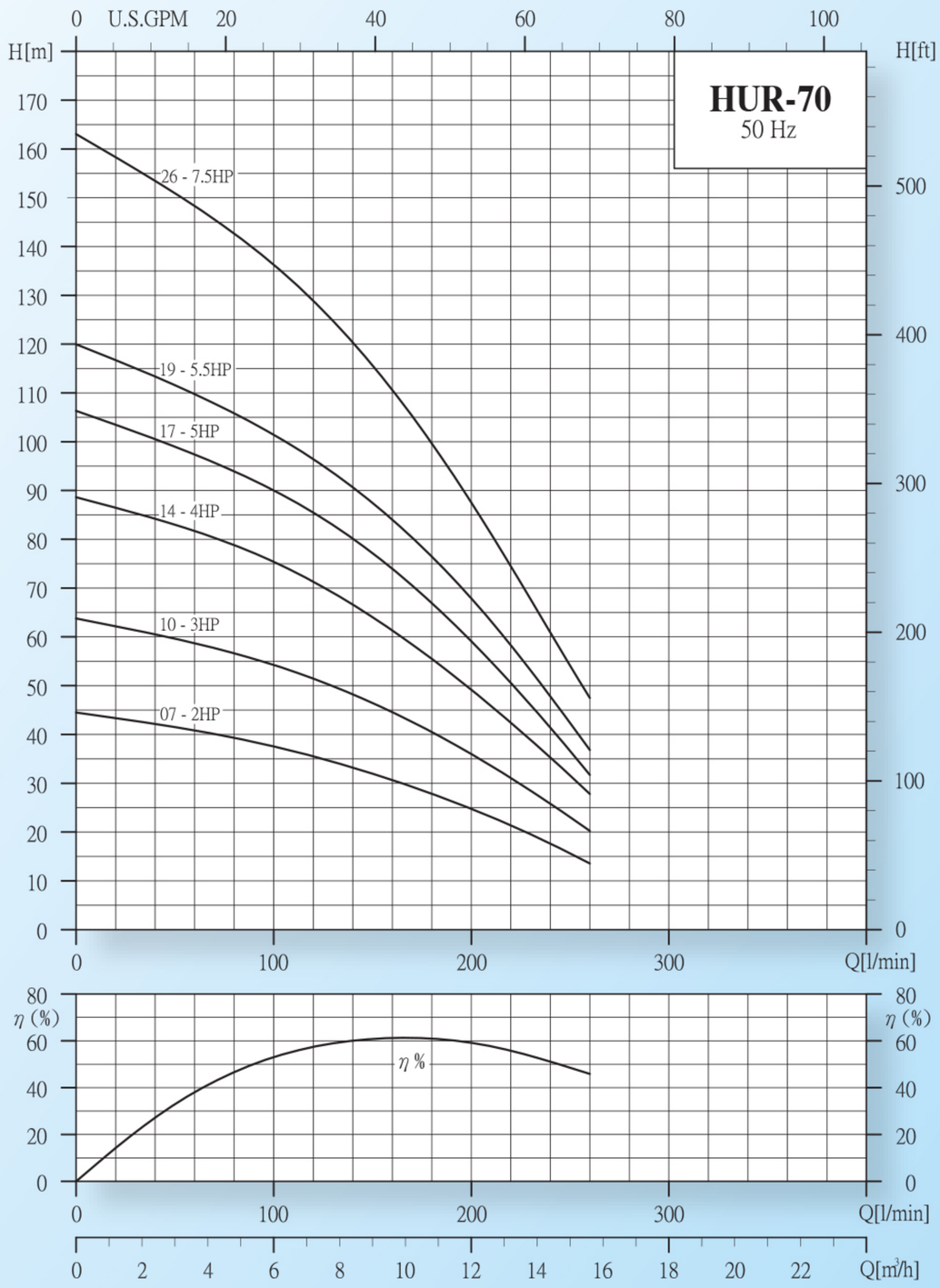

HUR-35
50 Hz
H[m]
H[ft]
U.S.GPM
Q[l/min]
Q[m³/h]
η (%)
η %
44 - 5.5HP
40 - 5HP
32 - 4HP
24 - 3HP
16 - 2HP
12 - 1.5HP
08 - 1HP
06 - 0.75HP
04 - 0.5HP

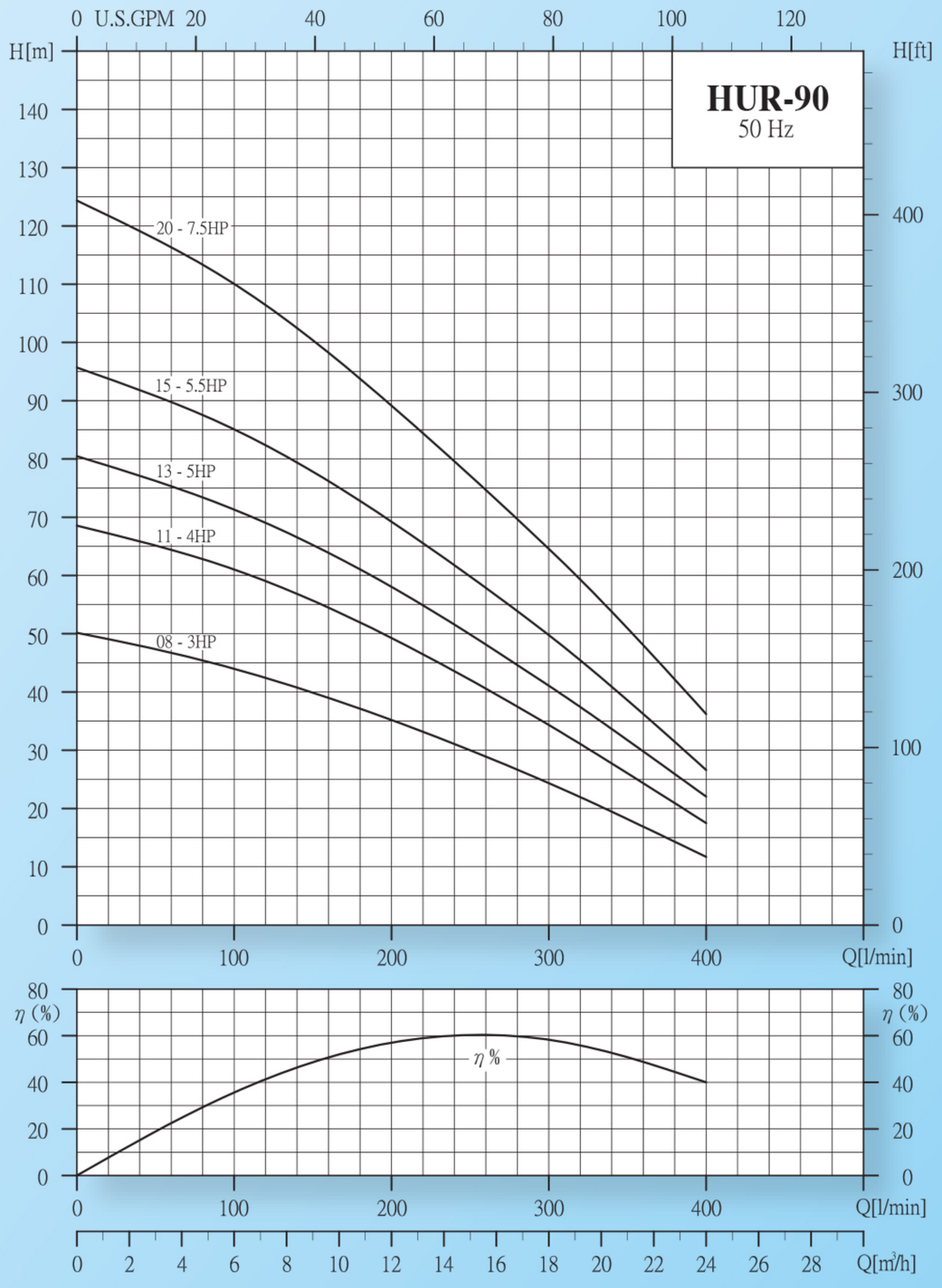

HUR-45
50Hz
H[m]
H[ft]
U.S.GPM
Q[l/min]
Q[m³/h]
η (%)
η %
49 - 7.5HP
36 - 5.5HP
34 - 5HP
27 - 4HP
20 - 3HP
14 - 2HP
10 - 1.5HP
07 - 1HP


HUR-50
50 Hz
H[m]
H[ft]
U.S.GPM
Q[l/min]
Q[m³/h]
η (%)
η %
32 - 7.5HP
23 - 5.5HP
21 - 5HP
17 - 4HP
13 - 3HP
08 - 2HP
06 - 1.5HP
04 - 1HP


HUR-65
50 Hz
H[m]
H[ft]
U.S.GPM
Q[l/min]
Q[m³/h]
η (%)
η %
32 - 7.5HP
24 - 5.5HP
22 - 5HP
18 - 4HP
14 - 3HP
10 - 2HP
07 - 1.5HP

# Performance Curves



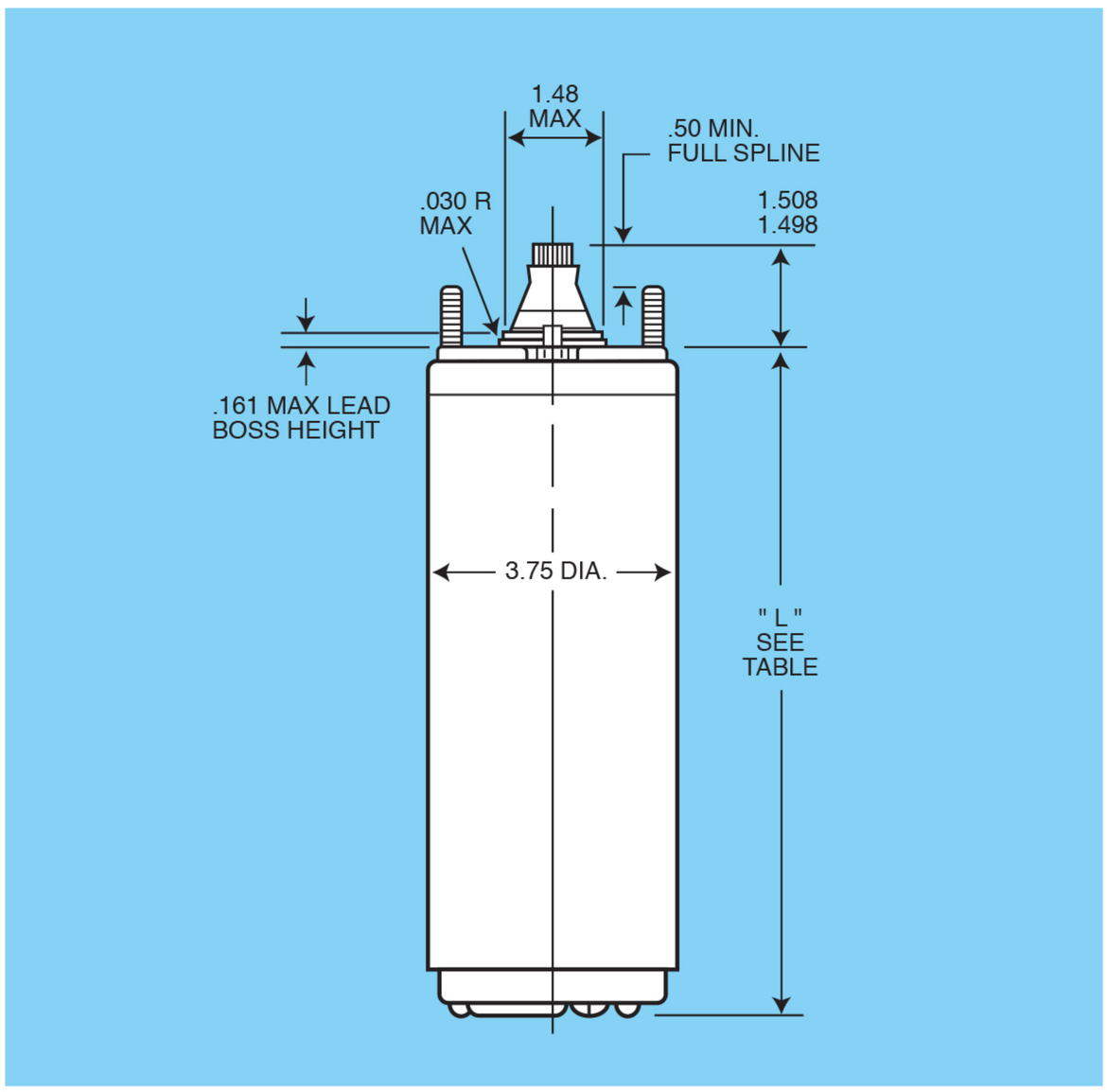




## รุ่นปริมาณน้ำมาก (High Capacity Type)

| รุ่น | จำนวนใบพัด | มอเตอร์ | | Q = ปริมาณน้ำ ลิตร/นาที | 80 | 90 | 100 | 120 | 140 | 160 | 180 | 200 | 220 | 240 | 260 | 280 | 300 | 320 | 340 | 360 | 380 | 400 | 450 | 500 | ปั๊ม | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | วัตต์ | แรงม้า | คิว/ชม. | 4.8 | 5.4 | 6.0 | 7.2 | 8.4 | 9.6 | 10.8 | 12 | 13.2 | 14.4 | 15.6 | 16.8 | 18 | 19.2 | 20.4 | 21.6 | 22.8 | 24 | 27 | 30 | ความยาว (mm) | น้ำหนัก (kg) |
| | | | | H = ความสูงเป็นเมตร | | | | | | | | | | | | | | | | | | | | | | |
| HUR-6507 | 7 | 1.1 | 1.5 | 41 | 35 | 34 | 33 | 32 | 29 | 26 | 23 | 18 | 14 | 8 | | | | | | | | | | | 537 | 5.3 |
| HUR-6510 | 10 | 1.5 | 2.0 | 58 | 49 | 48 | 47 | 44 | 41 | 37 | 32 | 27 | 20 | 13 | | | | | | | | | | | 693 | 6.7 |
| HUR-6514 | 14 | 2.2 | 3.0 | 83 | 71 | 69 | 67 | 63 | 58 | 54 | 48 | 40 | 31 | 20 | | | | | | | | | | | 901 | 8.5 |
| HUR-6518 | 18 | 3.0 | 4.0 | 107 | 92 | 90 | 87 | 83 | 77 | 70 | 62 | 52 | 39 | 26 | | | | | | | | | | | 1147 | 10.4 |
| HUR-6522 | 22 | 3.7 | 5.0 | 131 | 110 | 107 | 104 | 98 | 91 | 82 | 71 | 58 | 45 | 30 | | | | | | | | | | | 1345 | 12.3 |
| HUR-6524 | 24 | 4.0 | 5.5 | 141 | 118 | 116 | 113 | 106 | 97 | 88 | 77 | 63 | 49 | 33 | | | | | | | | | | | 1449 | 13.2 |
| HUR-6532 | 32 | 5.5 | 7.5 | 189 | 162 | 157 | 153 | 144 | 134 | 122 | 107 | 90 | 70 | 47 | | | | | | | | | | | 1866 | 17 |
| HUR-7007 | 7 | 1.5 | 2.0 | 45 | | | 37 | 36 | 33 | 31 | 28 | 25 | 22 | 18 | 14 | | | | | | | | | | 534 | 5.3 |
| HUR-7010 | 10 | 2.2 | 3.0 | 64 | | | 54 | 52 | 48 | 44 | 41 | 36 | 32 | 26 | 20 | | | | | | | | | | 690 | 6.7 |
| HUR-7014 | 14 | 3.0 | 4.0 | 89 | | | 76 | 72 | 67 | 62 | 56 | 49 | 43 | 35 | 28 | | | | | | | | | | 989 | 8.6 |
| HUR-7017 | 17 | 3.7 | 5.0 | 107 | | | 90 | 86 | 80 | 74 | 67 | 59 | 51 | 42 | 32 | | | | | | | | | | 1092 | 10.1 |
| HUR-7019 | 19 | 4.0 | 5.5 | 120 | | | 102 | 97 | 91 | 89 | 76 | 68 | 58 | 48 | 37 | | | | | | | | | | 1195 | 11.0 |
| HUR-7026 | 26 | 5.5 | 7.5 | 163 | | | 136 | 129 | 120 | 111 | 100 | 87 | 75 | 61 | 48 | | | | | | | | | | 1559 | 14.3 |
| HUR-9008 | 8 | 2.2 | 3.0 | 51 | | | | | 41 | 39 | 37 | 35 | 33 | 31 | 29 | 27 | 24 | 22 | 20 | 17 | 14 | 12 | | | 676 | 6.3 |
| HUR-9011 | 11 | 3.0 | 4.0 | 70 | | | | | 57 | 54 | 52 | 49 | 47 | 44 | 41 | 38 | 34 | 31 | 28 | 24 | 21 | 18 | | | 880 | 8.1 |
| HUR-9013 | 13 | 3.7 | 5.0 | 81 | | | | | 67 | 64 | 61 | 58 | 55 | 52 | 48 | 45 | 41 | 38 | 34 | 30 | 26 | 22 | | | 1013 | 9.3 |
| HUR-9015 | 15 | 4.0 | 5.5 | 97 | | | | | 79 | 76 | 73 | 69 | 66 | 63 | 58 | 54 | 50 | 46 | 41 | 36 | 32 | 27 | | | 1149 | 10.5 |
| HUR-9020 | 20 | 5.5 | 7.5 | 125 | | | | | 102 | 98 | 94 | 89 | 84 | 79 | 74 | 70 | 65 | 60 | 54 | 48 | 43 | 37 | | | 1489 | 13.5 |

# 4" SUPER STAINLESS SUBMERSIBLE MOTORS

## DIMENSIONS




## CONSTRUCTION MATERIALS

| Component | Standard Water Well |
|---|---|
| Castings | 304S.S. Over Iron |
| Stator Shell | 301S.S. |
| Shaft Extension | 303S.S. or 17-4S.S. |
| Fasteners | 305S.S. or 302S.S. |
| Seal Cover | Acetal |
| Seal | Nitrile Rubber Lip |
| Diaphragm | Nitrile Rubber |
| Diaphragm Cover | Nickel Plated CRS |
| Slinger | Nitrile Rubber |
| Lead Wire (or Cable) | XLPE ① |
| Lead Potting | Epoxy |
| Lead Jam Nut | 303S.S. |

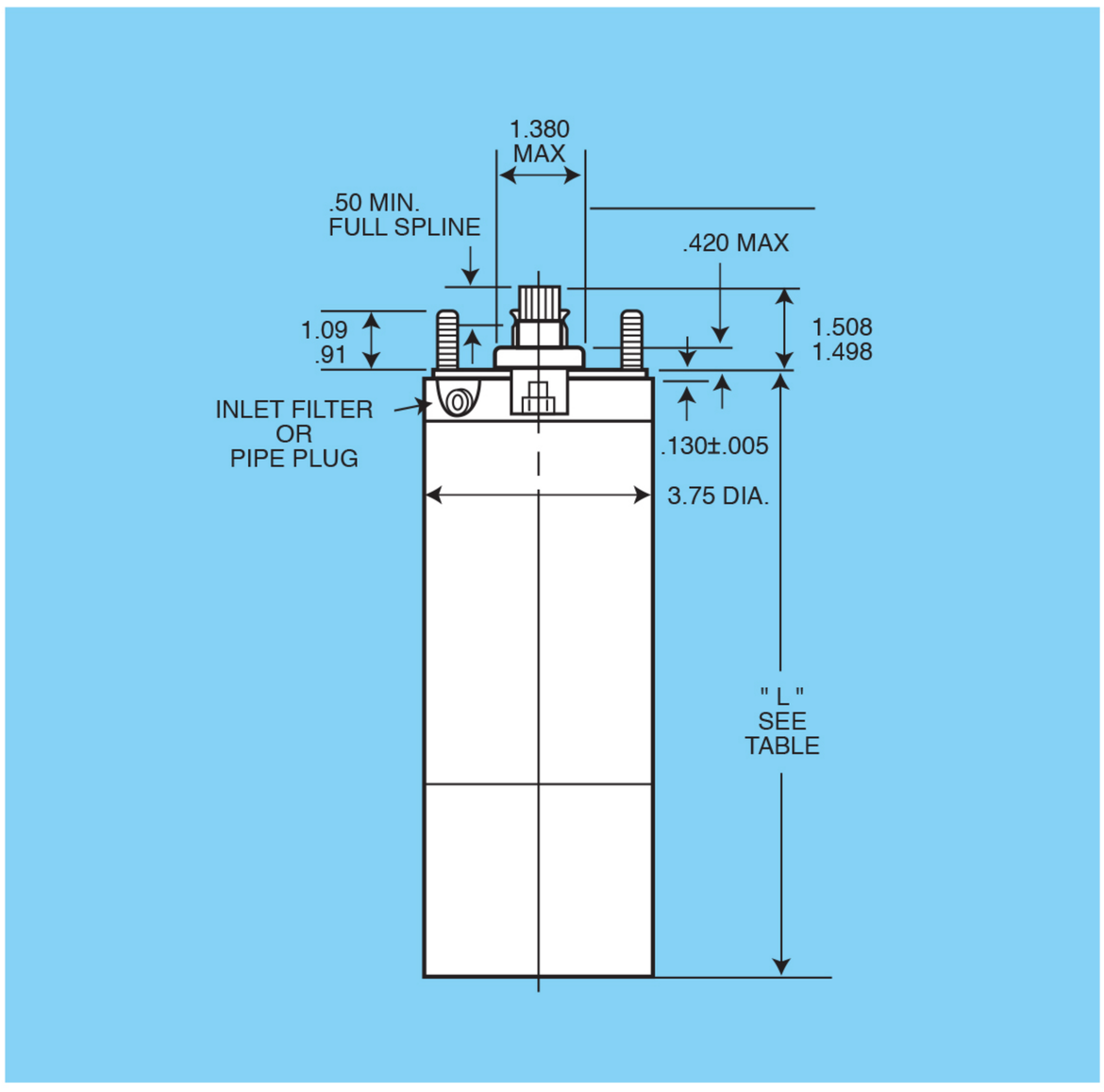
## AVAILABILITY - *Single Phase* *(Consult Factory For Three Phase)*

***3-Wire, Capacitor Start, 50 Hz, 2875 RPM²***

| | | | "L" Dimension | Shipping Weight | |
|---|---|---|---|---|---|
| hp | kw | volts | in | lbs | kgs |
| 1/3 | .25 | 220 | 8.78 | 16 | 7.2 |
| 1/2 | .37 | 220 | 9.53 | 18 | 8.1 |
| 3/4 | .55 | 220 | 10.66 | 21 | 9.5 |
| 1 | .75 | 220 | 11.75 | 24 | 10.9 |
| 1 1/2 | 1.1 | 220 | 13.62 | 29 | 13.1 |
| 2 | 1.5 | 220 | 15.12 | 32 | 14.5 |

# 4" HIGH THRUST SUBMERSIBLE MOTORS

## DIMENSIONS




## CONSTRUCTION MATERIALS

| Component | Standard Water Well |
|---|---|
| Castings | Gray Iron, Nickel Plated |
| Stator Shell | 301S.S. |
| Stator Ends | Low Carbon Steel |
| Shaft Extension | 303S.S., Except 17-4S.S. On 5-10 hp |
| Fasteners | 300 Series S.S. |
| Seal Cover | Bronze |
| Seal | Nitrile Rubber Lip Seal |
| Diaphragm | Nitrile Rubber |
| Diaphragm Plate | 304S.S. |
| Diaphragm Spring | 302S.S. |
| Diaphragm Cover | 304S.S. |
| Slinger | Nitrile Rubber |
| Lead Wire (or Cable) | XLPE |
| Lead Potting | Epoxy ② |
| Lead Jam Nut | 303S.S. |
| Filter | Delrin & Polyester |

## AVAILABILITY

*Single Phase* *Capacitor star, capaition run (Control box required)*

| | | "L" Dimension | Shipping | Weight |
|---|---|---|---|---|
| hp | kw | in | lbs | kgs |
| 3 | 2.2 | 23.62 | 55 | 25.0 |
| 5 | 3.7 | 29.62 | 70 | 31.8 |
| *Three Phase* *(Special control Required)* | | | | |
| 3 | 2.2 | 20.62 | 44 | 20.0 |
| 5 | 3.7 | 23.62 | 55 | 25.0 |
| 7 1/2 | 5.5 | 29.62 | 70 | 31.8 |
| 10 | 7.5 | 43.89 | 120 | 54.4 |

① 60 Hz-Nominal 3,450 RPM
50 Hz-Nominal 2,875 RPM

② Removable Type Installed in North American 60 Hz Rated Water Well Motors. Consult Factory For Additional Leads.

Specifications subject to change without notice.
Contact F.E. if current materrial types are required for bid specifictions.

**Franklin Electric, U.S.A.**