



JSL INDUSTRIES LTD

# “Jyoti” UNIBUILT PUMPS

Introduction

Features & Technical Specification

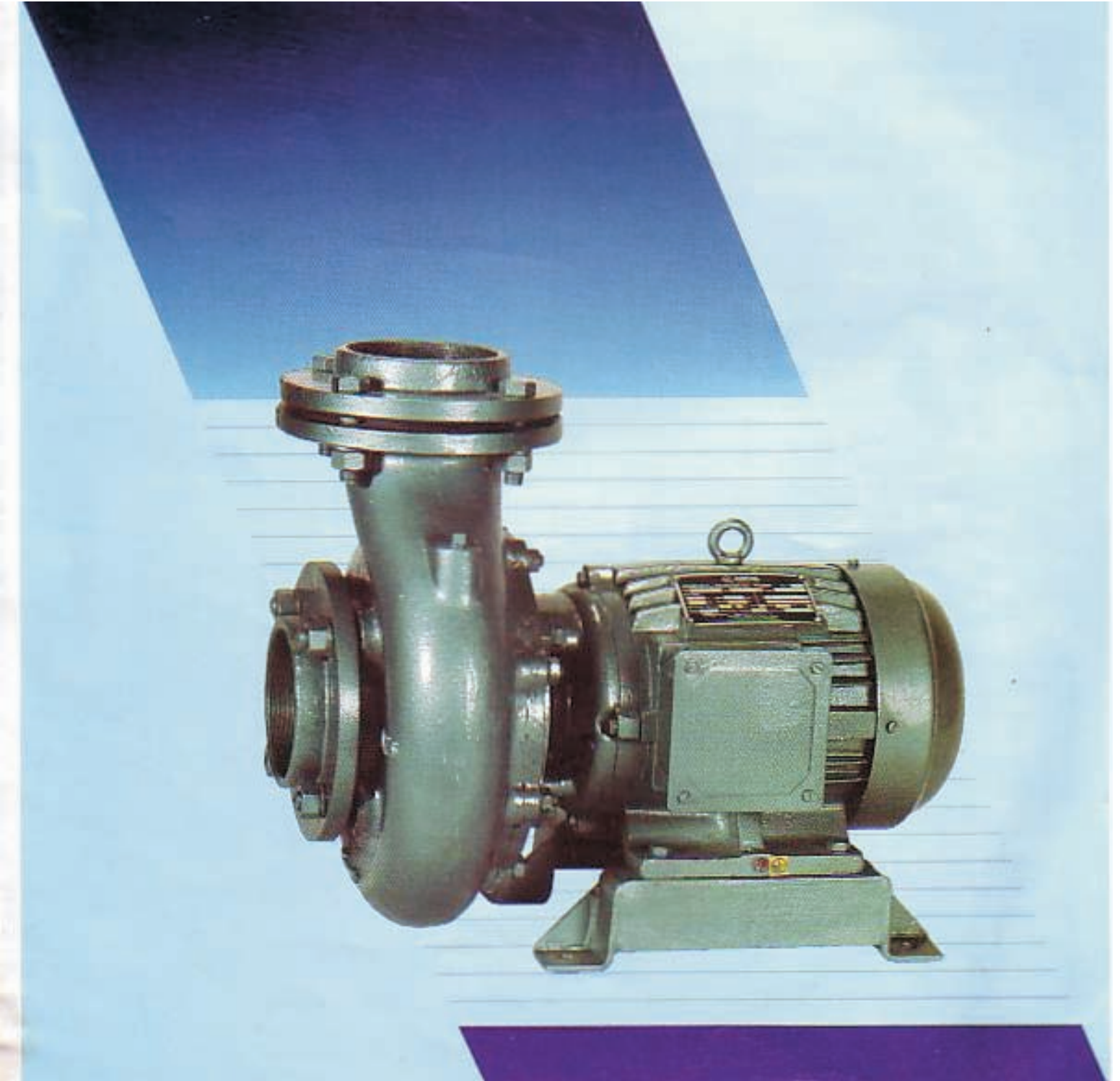
Water Rating Chart

Schematic Diagram



# “Jyoti” UNIBUILT® PUMPS

Energy Efficient  
High Performance  
Most Reliable  
Unibuilt® Pumps



# UNIBUILT® PUMPS

The new series of Unibuilt® Pumps have been developed as a result of advanced studies conducted by Jyoti R & D Centre. These Unibuilt® pumps are designed for high efficiency and superior performance for agricultural, industrial and domestic applications.

The main features of Unibuilt® Pumps are the optimum design with high efficiency in the performance range. The self-venting type centre-line delivery casing eliminates manual operation of air-release when the pump is being primed.

## SPECIAL FEATURES :

- Unibuilt® Pumps conform to IS-9079 for agricultural, Industrial, Domestic and other applications
- Suitable for operating at high suction lift upto 6 mtrs.
- Non-overloading Characteristics over the entire range of operation.
- Foot-mounted motor design ensures low vibration installation.
- Unibuilt motors conform to IS:7538. They are capable of withstanding wide voltage fluctuations within +6% to -15% of 415 volts.
- Special low voltage design pumps with 380 V +6% to 21% is also available on all the models.
- These motors are with TEFC enclosures and class 'B' Insulation. Also 'F' class, Ip55 construction is optional.
- Unibuilt® Pumps do not require base-plate. They can be easily bolted on a girder/beam directly. Alternatively, they can be grouted in a very simple concrete. Foundation. Once installed, the Unibuilt® Pumps need very little attention.

## OPTIONAL ITEMS

- Mechanical Seal / Gland Packing in place of Spring Actuated Stuffing-Box Seal.
- Bronze instead of cast-iron impeller.

# “Jyoti” UNIBUILT® PUMPS

## WATER RATING CHART FOR UNIBUILT® PUMPS

| <b>JSL INDUSTRIES LTD.MOGAR</b> |               |      | MANUFACTURED BY JSL INDUSTRIES LTD., MOGAR-388 340, Licensee of Jyoti Ltd., Vadodara <span style="float: right;">® Registered Proprietor of the Trade Mark</span> |                                       |           |           |           |           |           |           |            |           |           |           |                                |             |           |           |           |           |           |           |                                  |           |           |           |           |           |           |
|---------------------------------|---------------|------|---|---------------------------------------|-----------|-----------|-----------|-----------|-----------|-----------|------------|-----------|-----------|-----------|--------------------------------|-------------|-----------|-----------|-----------|-----------|-----------|-----------|----------------------------------|-----------|-----------|-----------|-----------|-----------|-----------|
| SR. NO                          | PUMP TYPE     | H.P. | SIZE OF SUCTION x DELIVERY IN MM.   | DISCHARGE IN LITRES PER MINUTE ( LPM) |           |           |           |           |           |           |            |           |           |           | SPEED 2750 RPM FOR SR.NO 1 & 2 |             |           |           |           |           |           |           | SPEED 2880 RPM FOR SR.NO 5 & 40  |           |           |           |           |           |           |
|                                 |               |      |   | TOTAL HEAD IN METRES                  |           |           |           |           |           |           |            |           |           |           | SPEED 2800 RPM FOR SR.NO 3 & 4 |             |           |           |           |           |           |           | SPEED 1440 RPM FOR SR.NO 41 & 48 |           |           |           |           |           |           |
|                                 |               |      |   | 6                                     | 7         | 8         | 9         | 10        | 11        | 12        | 13         | 14        | 15        | 16        | 17                             | 18          | 19        | 20        | 21        | 22        | 23        | 24        | 25                               | 26        | 27        | 28        |           |           |           |
| 1                               | 25UH60.5      | 0.50 | 32 x 25   |                                       |           |           |           |           |           |           |            |           |           |           |                                |             |           |           |           |           |           |           |                                  |           |           |           |           |           |           |
| 2                               | 25UH60.75     | 0.75 | 32 x 25   |                                       |           |           |           |           |           |           | 87         | 82        | 72        | 67        | 54                             | 40          | 24        |           |           |           |           |           |                                  |           |           |           |           |           |           |
| 3                               | 25UH61        | 1    | 32 x 25   |                                       |           |           |           |           |           |           |            |           | 132       | 130       | 128                            | 126         | 114       | 111       | 108       | 102       | 96        | 90        | 78                               | 66        | 54        | 36        |           |           |           |
| 4                               | 25UL31 (SD) # | 1    | 25 x 25   |                                       |           |           |           |           |           |           |            |           |           | 162       | 150                            | 142         | 133       | 122       | 110       | 96        | 78        | 54        |                                  |           |           |           |           |           |           |
| 5                               | *40UL61.5     | 1.5  | 40 x 40   |                                       |           |           |           |           |           | 288       | 276        | 264       | 249       | 231       | 216                            | 198         | 180       | 156       |           |           |           |           |                                  |           |           |           |           |           |           |
| 6                               | *40UL62 #     | 2    | 40 x 40   |                                       |           |           |           |           |           |           |            |           | 324       | 321       | 318                            | 310         | 300       | 282       | 264       | 252       | 228       | 204       | 180                              | 150       | 120       |           |           |           |           |
| 7                               | *50UL62       | 2    | 50 x 50   |                                       |           |           | 510       | 498       | 480       | 462       | 438        | 420       | 402       | 372       | 336                            | 298         | 264       | 228       |           |           |           |           |                                  |           |           |           |           |           |           |
| 8                               | *50UL63 #     | 3    | 50 x 50   |                                       |           |           |           |           |           |           |            | 564       | 540       | 528       | 504                            | 480         | 456       | 432       | 408       | 372       | 336       | 288       | 240                              | 198       |           |           |           |           |           |
| 9                               | *65UL63 #     | 3    | 65 x 65   |                                       |           | 840       | 816       | 780       | 762       | 720       | 696        | 672       | 636       | 612       | 588                            | 552         | 504       | 468       | 372       |           |           |           |                                  |           |           |           |           |           |           |
| 10                              | *80UL63       | 3    | 80 x 80   |                                       | 1080      | 1050      | 1020      | 980       | 940       | 890       | 840        | 770       | 705       | 630       | 525                            |             |           |           |           |           |           |           |                                  |           |           |           |           |           |           |
| 11                              | *65UL65 #     | 5    | 65 x 65   |                                       |           |           |           |           |           |           |            |           | 840       | 828       | 804                            | 768         | 750       | 720       | 708       | 672       | 648       | 630       | 594                              | 564       | 480       | 402       |           |           |           |
| 12                              | *80UL65       | 5    | 80 x 80   |                                       |           |           | 1308      | 1272      | 1242      | 1212      | 1176       | 1140      | 1104      | 1056      | 1026                           | 984         | 930       | 876       | 822       | 756       | 678       | 576       |                                  |           |           |           |           |           |           |
| 13                              | *80UL67       | 7.5  | 80 x 80   |                                       |           |           |           |           |           |           |            |           |           | 1284      | 1260                           | 1236        | 1212      | 1182      | 1152      | 1092      | 1056      | 996       | 930                              | 864       | 780       |           |           |           |           |
| 14                              | 100UL610      | 10   | 100 x 100   |                                       |           |           |           |           | 2280      | 2220      | 2172       | 2118      | 2064      | 2010      | 1950                           | 1872        | 1800      | 1692      | 1590      | 1488      |           |           |                                  |           |           |           |           |           |           |
| <b>TOTAL HEAD IN METERS</b>     |               |      |   | <b>14</b>                             | <b>15</b> | <b>16</b> | <b>17</b> | <b>18</b> | <b>19</b> | <b>20</b> | <b>21</b>  | <b>22</b> | <b>23</b> | <b>24</b> | <b>25</b>                      | <b>26</b>   | <b>27</b> | <b>28</b> | <b>29</b> | <b>30</b> | <b>31</b> | <b>32</b> | <b>33</b>                        | <b>34</b> | <b>35</b> | <b>36</b> | <b>37</b> | <b>38</b> |           |
| 15                              | *80UL610      | 10   | 80 x 80   |                                       |           |           |           |           | 1248      | 1246      | 1236       | 1234      | 1212      | 1188      | 1164                           | 1116        | 1068      | 1032      | 960       | 912       |           |           |                                  |           |           |           |           |           |           |
| 16                              | *100UL612     | 12.5 | 100 x 100   | 2250                                  | 2220      | 2190      | 2130      | 2040      | 1995      | 1950      | 1860       | 1800      | 1650      | 1500      | 1350                           |             |           |           |           |           |           |           |                                  |           |           |           |           |           |           |
| 17                              | *100UL615     | 15   | 100 x 100   |                                       | 2370      | 2340      | 2310      | 2250      | 2205      | 2160      | 2100       | 2070      | 2040      | 1980      | 1920                           | 1860        | 1770      | 1680      | 1560      |           |           |           |                                  |           |           |           |           |           |           |
| 18                              | 100UL620      | 20   | 100 x 100   |                                       |           |           |           |           |           |           |            |           | 2280      | 2220      | 2190                           | 2160        | 2124      | 2100      | 2040      | 2010      | 1980      | 1968      | 1908                             | 1820      | 1770      |           |           |           |           |
| 19                              | 50UH63        | 3    | 65 x 50   |                                       |           |           |           |           |           |           |            |           | 402       | 330       | 360                            | 300         | 260       | 200       |           |           |           |           |                                  |           |           |           |           |           |           |
| 20                              | *50UH65       | 5    | 65 x 50   |                                       |           |           |           |           |           | 456       | 453        | 450       | 444       | 438       | 432                            | 426         | 414       | 408       | 396       | 384       | 366       | 348       | 318                              | 294       | 246       |           |           |           |           |
| 21                              | 50UH75        | 5    | 65 x 50   |                                       | 910       | 880       | 860       | 820       | 800       | 760       | 730        | 700       | 650       | 610       | 558                            | 505         | 470       | 400       |           |           |           |           |                                  |           |           |           |           |           |           |
| 22                              | 65UH67        | 7.5  | 80 x 65   | 990                                   | 978       | 960       | 936       | 930       | 915       | 900       | 858        | 840       | 816       | 792       | 762                            | 720         | 690       | 636       | 582       | 516       | 462       |           |                                  |           |           |           |           |           |           |
| 23                              | *65UH610      | 10   | 80 x 65   |                                       |           |           |           |           |           | 1080      | 1062       | 1050      | 1038      | 1032      | 1020                           | 1008        | 984       | 960       | 930       | 1050      | 876       | 840       | 808                              | 780       | 636       |           |           |           |           |
| <b>TOTAL HEAD IN METERS</b>     |               |      |   | <b>27</b>                             | <b>28</b> | <b>29</b> | <b>30</b> | <b>31</b> | <b>32</b> | <b>33</b> | <b>34</b>  | <b>35</b> | <b>36</b> | <b>37</b> | <b>38</b>                      | <b>39</b>   | <b>40</b> | <b>42</b> | <b>44</b> | <b>46</b> | <b>48</b> | <b>50</b> | <b>52</b>                        | <b>54</b> | <b>55</b> | <b>56</b> | <b>58</b> | <b>60</b> | <b>65</b> |
| 24                              | 40UH63        | 3    | 50 x 40   | 216                                   | 210       | 204       | 192       | 186       | 174       | 168       | 150        | 138       | 120       | 114       | 90                             | 72          | 60        |           |           |           |           |           |                                  |           |           |           |           |           |           |
| 25                              | *40UH65       | 5    | 50 x 40   | 300                                   | 294       | 288       | 286       | 282       | 280       | 276       | 275        | 270       | 265       | 262       | 258                            | 252         | 246       | 240       | 222       | 204       | 180       | 156       | 126                              | 90        | 54        |           |           |           |           |
| 26                              | *40UH67       | 7.5  | 50 x 40   |                                       |           |           |           |           |           | 423       | 420        | 414       | 408       | 402       | 399                            | 390         | 384       | 369       | 351       | 327       | 300       | 252       | 210                              | 144       | 120       | 105       |           |           |           |
| 27                              | *40UH610      | 10   | 50 x 40   |                                       |           |           | 468       | 462       | 456       | 444       | 438        | 432       | 426       | 420       | 414                            | 402         | 396       | 384       | 366       | 348       | 336       | 312       | 300                              | 282       | 264       | 252       | 228       | 198       | 78        |
| 28                              | *50UH67       | 7.5  | 65 x 50   | 660                                   | 648       | 636       | 630       | 618       | 600       | 588       | 570        | 558       | 540       | 522       | 504                            | 480         | 450       | 360       | 270       |           |           |           |                                  |           |           |           |           |           |           |
| 29                              | *50UH610      | 10   | 65 x 50   |                                       |           |           |           |           |           | 690       | 684        | 672       | 666       | 654       | 642                            | 612         | 582       | 552       | 510       | 450       | 390       | 306       | 270                              | 180       |           |           |           |           |           |
| 30                              | 50UHA612      | 12.5 | 65 x 50   |                                       |           |           |           |           |           |           |            |           |           |           |                                |             |           | 636       | 600       | 540       | 468       | 432       |                                  |           |           |           |           |           |           |
| 31                              | 50UHB612      | 12.5 | 65 x 50   |                                       |           |           |           |           |           |           |            |           |           |           |                                |             |           |           |           |           |           |           | 552                              | 516       | 444       | 366       | 78        |           |           |
| 32                              | *65UH612      | 12.5 | 80 x 65   |                                       |           | 1200      | 1188      | 1170      | 1164      | 1140      | 1122       | 1086      | 1044      | 1020      | 960                            | 900         | 750       |           |           |           |           |           |                                  |           |           |           |           |           |           |
| 33                              | 65UH615       | 15   | 80 x 65   |                                       |           |           |           |           |           |           |            |           |           |           | 1200                           | 1188        | 1140      | 1080      | 1008      | 930       | 600       |           |                                  |           |           |           |           |           |           |
| 34                              | 65UH620       | 20   | 80 x 65   |                                       |           |           |           |           |           |           |            |           |           |           |                                |             |           |           | 1188      | 1140      | 1080      | 1038      | 996                              | 876       | 792       |           |           |           |           |
| 35                              | 80UH615       | 15   | 100 x 80  |                                       | 1632      | 1602      | 1530      | 1500      | 1428      | 1368      | 1242       | 1200      | 1080      | 960       | 810                            |             |           |           |           |           |           |           |                                  |           |           |           |           |           |           |
| 36                              | 80UH620       | 20   | 100 x 80  |                                       |           |           | 1740      | 1722      | 1710      | 1680      | 1662       | 1650      | 1620      | 1596      | 1560                           | 1542        | 1524      | 1488      | 1320      | 1134      | 840       |           |                                  |           |           |           |           |           |           |
| <b>TOTAL HEAD IN METERS</b>     |               |      |   | <b>52.5</b>                           | <b>55</b> | <b>60</b> | <b>65</b> | <b>66</b> | <b>68</b> | <b>70</b> | <b>71</b>  | <b>72</b> | <b>73</b> | <b>74</b> | <b>75</b>                      | <b>76</b>   | <b>78</b> | <b>80</b> | <b>81</b> | <b>82</b> | <b>84</b> | <b>86</b> | <b>88</b>                        | <b>90</b> |           |           |           |           |           |
| 37                              | 50UH615       | 15   | 65 x 50   |                                       |           |           |           |           | 534       | 492       | 444        | 390       | 318       | 240       |                                |             |           |           |           |           |           |           |                                  |           |           |           |           |           |           |
| 38                              | 50UHA620      | 20   | 65 x 50   | 870                                   | 840       | 756       | 666       | 648       | 600       | 546       | 498        | 450       | 394       |           |                                |             |           |           |           |           |           |           |                                  |           |           |           |           |           |           |
| 39                              | 50UHB620      | 20   | 65 x 50   |                                       |           |           | 798       | 780       | 750       | 696       | 678        | 654       | 624       | 600       | 570                            | 570         | 450       | 336       | 270       |           |           |           |                                  |           |           |           |           |           |           |
| 40                              | 50UH625       | 25   | 65 x 50   |                                       |           |           |           |           |           |           |            |           |           | 846       | 846                            | 792         | 756       | 738       | 708       | 642       | 558       | 456       | 330                              |           |           |           |           |           |           |
| <b>TOTAL HEAD IN METERS</b>     |               |      |   | <b>3</b>                              | <b>4</b>  | <b>5</b>  | <b>6</b>  | <b>7</b>  | <b>8</b>  | <b>9</b>  | <b>9.5</b> | <b>10</b> | <b>11</b> | <b>12</b> | <b>13</b>                      | <b>13.5</b> | <b>14</b> | <b>15</b> | <b>16</b> |           |           |           |                                  |           |           |           |           |           |           |
| 41                              | *80UV63 (E)   | 3    | 80 x 80   |                                       |           |           | 1170      | 1104      | 1044      | 968       | 924        | 888       | 828       | 750       | 612                            | 564         | 480       |           |           |           |           |           |                                  |           |           |           |           |           |           |
| 42                              | *100UV63 (E)  | 3    | 100 x 100   |                                       |           |           | 1710      | 1610      | 1472      | 1290      | 1068       | 870       |           |           |                                |             |           |           |           |           |           |           |                                  |           |           |           |           |           |           |
| 43                              | *100UV65 (E)  | 5    | 100 x 100   |                                       |           |           |           | 2040      | 1941      | 1827      | 1764       | 1694      | 1560      | 1404      | 1200                           | 1110        |           |           |           |           |           |           |                                  |           |           |           |           |           |           |
| 44                              | 100UV67 (E)   | 7.5  | 100 x 100   |                                       |           |           |           | 2400      | 2300      | 2250      | 2200       | 2100      | 2000      | 1900      | 1800                           | 1700        | 1450      | 1200      |           |           |           |           |                                  |           |           |           |           |           |           |
| 45                              | 125UV65 (E)   | 5    | 125 x 125   |                                       |           |           | 2680      | 2460      | 2200      | 1960      | 1760       | 1600      |           |           |                                |             |           |           |           |           |           |           |                                  |           |           |           |           |           |           |
| 46                              | 125UV67 (E)   | 7.5  | 125 x 125   |                                       |           |           |           | 2720      | 2610      | 2500      | 2300       | 2080      | 1860      | 1730      | 1600                           |             |           |           |           |           |           |           |                                  |           |           |           |           |           |           |
| 47                              | 150UV67 (E)   | 7.5  | 150 x 150   | 3825                                  | 3650      | 3475      | 3300      | 3075      | 2850      | 2550      | 2350       | 2150      |           |           |                                |             |           |           |           |           |           |           |                                  |           |           |           |           |           |           |
| 48                              | 150UV610(E)   | 10   | 150 x 150   | 4320                                  | 4260      | 4170      | 4020      | 3870      | 3690      | 3510      | 3360       | 3300      | 3120      | 2850      | 2550                           |             |           |           |           |           |           |           |                                  |           |           |           |           |           |           |

\* Models with ISI Mark, # MODELS ALSO AVAILABLE WITH SIDE DISCHARGE W/O ISI MARK, (E) MODELS WITH EXTENDED SHAFT AT NDE SIDE

# SCHEMATIC DIAGRAM OF UNIBUILT® PUMP

