

# TOMY ENG General catalogue



# TEN-P/V

Magnetic pumps with small capacity



## Features

- Magnetic pumps to suitable for wide range chemical.
- High reliability and long life faithfully following basic performance.
- Models with 6W - 250W of various motor output.

## Material

- General purpose small capacity magnetic pump

TEN type . . . GFR-PP

\*Glassfiber-reinforced polypropylene

- Chemical resistance magnetic pump

TEN-V type . . . CFR-PVDF

\*Carbon- reinforced polyvinylidene fluoride(2F)

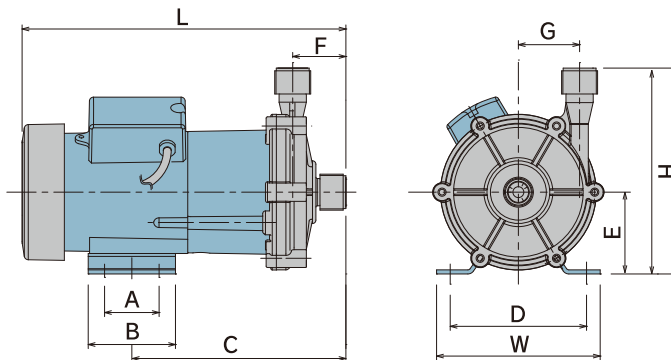
## Model constitution

**TEN-150 P - T 3 2 5**

① ② ③ ④ ⑤ ⑥

| ① Series | ② Material   | ③ Connection | ④ Phase     | ⑤ Voltage | ⑥ Frequency     |
|----------|--------------|--------------|-------------|-----------|-----------------|
| 5~250    | P...GFR-PP   | H... HOSE    | 1... Single | 1...100V  | none ...50/60Hz |
|          |              | T... Thread  |             | 2...200V  |                 |
|          | V...CFR-PVDF | F... Flange  | 3... Three  | 3...380V  | 5...50Hz only   |
|          |              |              |             | 4...400V  |                 |

## Dimensions list



### Things to be aware of when using

1. Do not race magnetic pumps
2. Do not operate magnetic pumps with slurry.
3. Magnetic pumps can not suck fluid by self.
4. Use magnetic pump within the following fluid temperature.

**TEN-P/TEX-P** 0~70°C

**TEN-V** 0~80°C

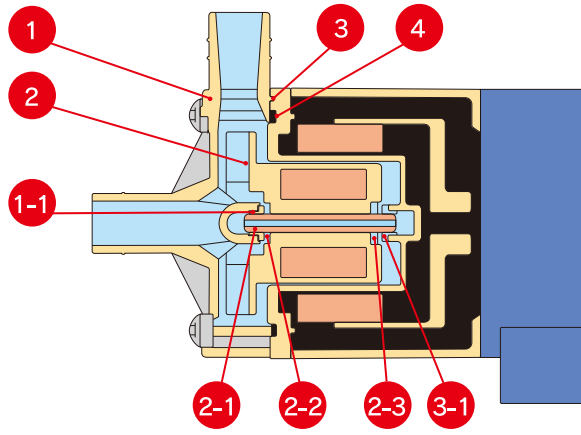
**TEX-F/C** 0~90°C

| MODEL             | W   | H   | L   | A  | B   | C   | D   | E  | F  | G  | mm |
|-------------------|-----|-----|-----|----|-----|-----|-----|----|----|----|----|
| TEN-5P            | 74  | 83  | 130 | -  | 30  | 74  | 60  | 36 | 31 | 17 |    |
| TEN-15P/15V       | 95  | 113 | 179 | -  | 50  | 116 | 68  | 56 | 38 | 23 |    |
| TEN-25P/25V       | 85  | 117 | 205 | 30 | 50  | 127 | 68  | 56 | 34 | 29 |    |
| TEN-25PZ/25VZ     | 85  | 126 | 211 | 30 | 50  | 134 | 68  | 56 | 40 | 40 |    |
| TEN-45P/45V       | 120 | 130 | 250 | 40 | 64  | 167 | 100 | 60 | 48 | 30 |    |
| TEN-45PZ/45VZ     | 120 | 134 | 230 | 40 | 64  | 151 | 100 | 64 | 40 | 40 |    |
| TEN-70P/70V       | 120 | 130 | 274 | 40 | 64  | 168 | 100 | 60 | 48 | 30 |    |
| TEN-70PZ/70VZ     | 120 | 151 | 237 | 40 | 64  | 157 | 100 | 60 | 39 | 45 |    |
| TEN-110P/110V     |     |     |     |    |     |     |     |    |    |    |    |
| TEN-110P3/110V3   | 120 | 162 | 275 | 45 | 75  | 187 | 100 | 66 | 56 | 43 |    |
| TEN-110P15/110V15 |     |     |     |    |     |     |     |    |    |    |    |
| TEN-110P35/110V35 |     |     |     |    |     |     |     |    |    |    |    |
| TEN-150P/150V     | 142 | 159 | 273 | 70 | 96  | 180 | 108 | 66 | 56 | 43 |    |
| TEN-150P3/150V3   |     |     |     |    |     |     |     |    |    |    |    |
| TEN-150PZ/150VZ   | 142 | 166 | 252 | 70 | 96  | 163 | 108 | 66 | 41 | 48 |    |
| TEN-150PZ3/150VZ3 |     |     |     |    |     |     |     |    |    |    |    |
| TEN-250P/250V     | 156 | 174 | 322 | 70 | 100 | 196 | 110 | 74 | 66 | 44 |    |
| TEN-250P3/250V3   |     |     |     |    |     |     |     |    |    |    |    |
| TEN-250P15/250V15 |     |     |     |    |     |     |     |    |    |    |    |
| TEN-250P35/250V35 |     |     |     |    |     |     |     |    |    |    |    |

• Please note that structure and dimension may change without prior notice

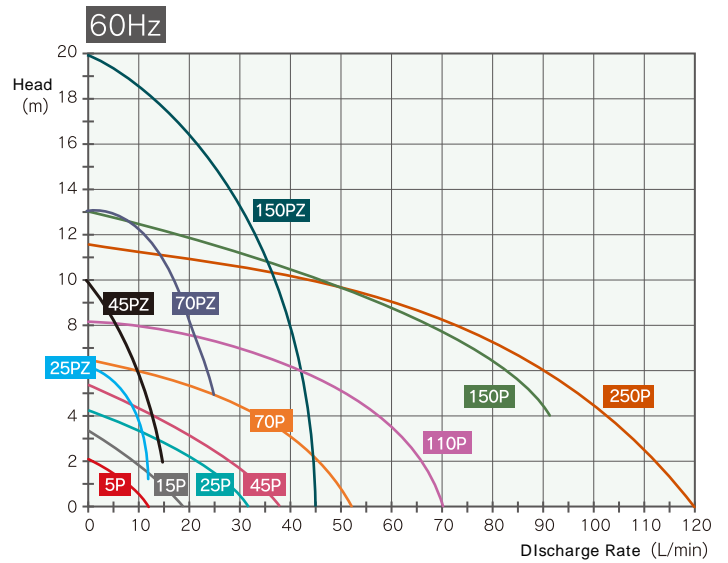
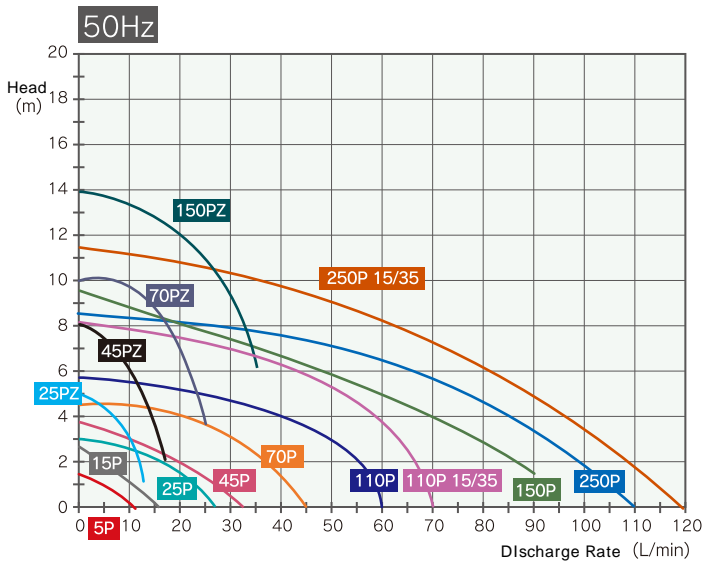
• When designing, request drawing and reconfirm

## Construction



| No. | Part name             | TEN-P                | TEN-V    |
|-----|-----------------------|----------------------|----------|
| 1   | Front casing          | GFR-PP               | CFR-PVDF |
| 1-1 | Front bearing         | Special PTFE         |          |
| 2   | Impeller (magnet can) | GFR-PP               | CFR-PVDF |
| 2-1 | spindle               | Alumina ceramic      |          |
| 2-2 | Front thrust          | Alumina ceramic      |          |
| 2-3 | Rear thrust           | Alumina ceramic      |          |
| 3   | Rear casing           | GFR-PP               | CFR-PVDF |
| 3-1 | Rear bearing          | Special PTFE         |          |
| 4   | O-ring                | FKM / EPDM / Special |          |

## Performance Curve



## Standard Specifications

| MODEL             | Frequency<br>Hz | Hose           |         | Thread |       | Flange<br>JIS10K | MAX Rate<br>L/min | MAX Hed<br>m | Strn. Spc. |                  | Motor (50/60Hz)       |                    |     | Weight<br>(Kg) |
|-------------------|-----------------|----------------|---------|--------|-------|------------------|-------------------|--------------|------------|------------------|-----------------------|--------------------|-----|----------------|
|                   |                 | IN / OUT<br>mm | Suc/Dis | Union  | L/min |                  |                   |              | m          | Rated Output (W) | Power Consumption (W) | Power Supply (V)   |     |                |
| TEN-5P            | 50<br>60        | 14A/14A        | —       | —      | —     | 11<br>12         | 1.5<br>2.1        | 5<br>8       | 1          | 6                | 11<br>14              | 1-phase<br>100/200 | 0.9 |                |
| TEN-15P/15V       | 50<br>60        | 14A/14A        | G3/4    | 16A    | —     | 16<br>19         | 2.7<br>3.4        | 8<br>12      | 1.5        | 15               | 22<br>30              | 1-phase<br>100/200 | 1.6 |                |
| TEN-25P/25V       | 50<br>60        | 18A/18A        | G3/4    | 16A    | —     | 27<br>32         | 3.1<br>4.3        | 17<br>22     | 2          | 25               | 35<br>50              | 1-phase<br>100/200 | 2   |                |
| TEN-25PZ/25VZ     | 50<br>60        | 17A/17A        | G3/4    | 16A    | —     | 13<br>14         | 5<br>6.5          | 7<br>10      | 4          | 25               | 35<br>50              | 1-phase<br>100/200 | 2.1 |                |
| TEN-45P/45V       | 50<br>60        | 20A/20A        | G3/4    | 16A    | —     | 33<br>38         | 3.8<br>5.4        | 16<br>25     | 2.5        | 45               | 50<br>70              | 1-phase<br>100/200 | 3.4 |                |
| TEN-45PZ/45VZ     | 50<br>60        | 17A/17A        | G3/4    | 16A    | —     | 15<br>15         | 8<br>10           | 5<br>8       | 7<br>8     | 45               | 50<br>70              | 1-phase<br>100/200 | 3.3 |                |
| TEN-70P/70V       | 50<br>60        | 20A/20A        | G3/4    | 16A    | —     | 45<br>52         | 4.6<br>6.5        | 22<br>34     | 4          | 70               | 95<br>140             | 1-phase<br>100/200 | 5.1 |                |
| TEN-70PZ/70VZ     | 50<br>60        | 20A/20A        | G3/4    | 16A    | —     | 22               | 10<br>13.5        | 10           | 8<br>12    | 70               | 95<br>140             | 1-phase<br>100/200 | 4   |                |
| TEN-110P/110V     | 50<br>60        |                |         |        |       | 60<br>70         | 5.6<br>8.2        | 40<br>55     |            |                  | 130<br>190            | 1-phase<br>100/200 |     |                |
| TEN-110P3/110V3   | 50<br>60        |                |         |        |       | 60<br>70         | 5.6<br>8.2        | 40<br>55     |            |                  | 130<br>190            | 3-phase<br>200/400 |     |                |
| TEN-110P15/110V15 | 50              | 26A/26A        | G1      | 20A    | —     | 70               | 8.2               | 55           | 4          | 110              | 190                   | 1-phase<br>100/200 | 7.1 |                |
| TEN-110P35/110V35 | 50              |                |         |        |       |                  |                   |              |            |                  |                       | 3-phase<br>200/400 |     |                |
| TEN-150P/150V     | 50<br>60        | 26A/26A        | G1      | 20A    | 25A   | 80<br>100        | 9.5<br>13         | 50           | 7.5<br>10  | 150<br>170       | 210<br>310            | 1-phase<br>100/200 | 6.6 |                |
| TEN-150P3/150V3   | 50<br>60        |                |         |        |       | 80<br>100        | 9.5<br>13         | 50           | 7.5<br>10  | 150<br>170       | 210<br>310            | 3-phase<br>200/400 |     |                |
| TEN-150PZ/150VZ   | 50<br>60        | 20A/20A        | G3/4    | 16A    | —     | 40<br>43         | 14<br>20          | 20<br>30     | 12         | 150<br>190       | 260<br>360            | 1-phase<br>100/200 | 6.6 |                |
| TEN-150PZ3/150VZ3 | 50<br>60        |                |         |        |       | 40<br>43         | 14<br>20          | 20<br>30     |            | 150<br>190       | 260<br>360            | 3-phase<br>200/400 |     |                |
| TEN-250P/250V     | 50<br>60        |                |         |        |       | 100<br>120       | 8.6<br>11.6       | 50<br>70     | 7<br>8     | 250              | 290<br>400            | 1-phase<br>100/200 | 8.7 |                |
| TEN-250P3/250V3   | 50<br>60        |                |         |        |       | 100<br>120       | 8.6<br>11.6       | 50<br>70     | 7<br>8     | 250              | 290<br>400            | 3-phase<br>200/400 |     |                |
| TEN-250P15/250V15 | 50              | 26A/26A        | G1      | 20A    | 25A   | 120              | 11.5              | 70           | 8          |                  | 395                   | 1-phase<br>100/200 |     |                |
| TEN-250P35/250V35 | 50              |                |         |        |       |                  |                   |              |            |                  |                       | 3-phase<br>200/400 |     |                |

- Please note that structure and dimension may change without prior notice
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# TEX-P/F/C

Magnetic pumps with medium capacity



TEX-P/F



TEX-C

## Features

- Magnetic pumps with medium capacity for wide range chemicals line up
- Leak free, seal-less construction for magnetic drive
- liquid end material combination support for wide range chemicals
- Casting cover installed for suitable use for high temperature and pressure
- Outdoor motor installed as standard.
- High resistance to idle running and long life.

## Material

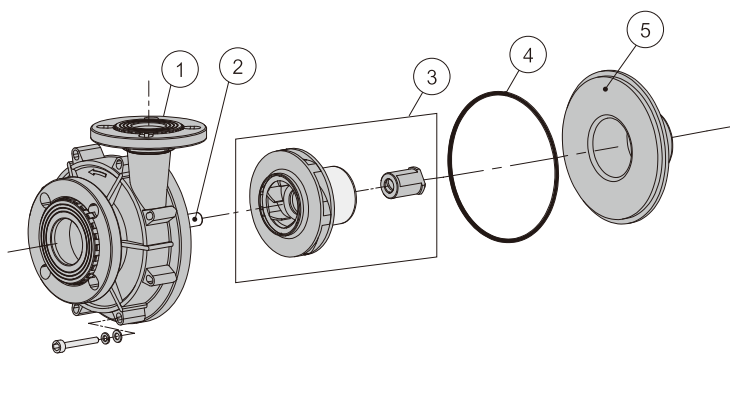
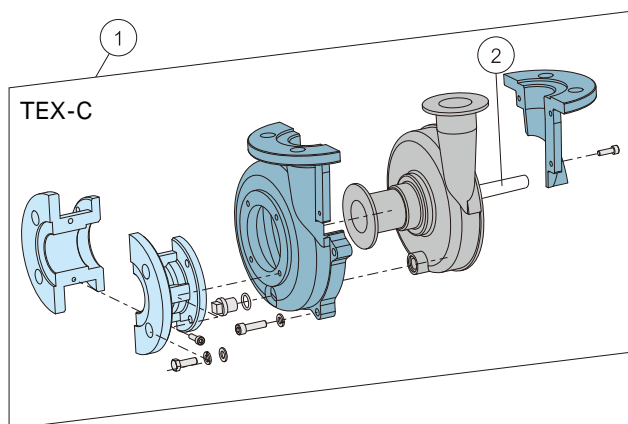
- TEX-P type GFR-PP Glassfiber-reinforced polypropylene
- TEX-F type CFR-ETFE Carbon- reinforced ETFE
- TEX-C type CFR-ETFE Carbon- reinforced ETFE
  - ※ ETFE is nearly equal chemical resistance with PTFE(Teflon®).
  - ※ Teflon® is trademark registration of DuPont USA.

## Model constitution

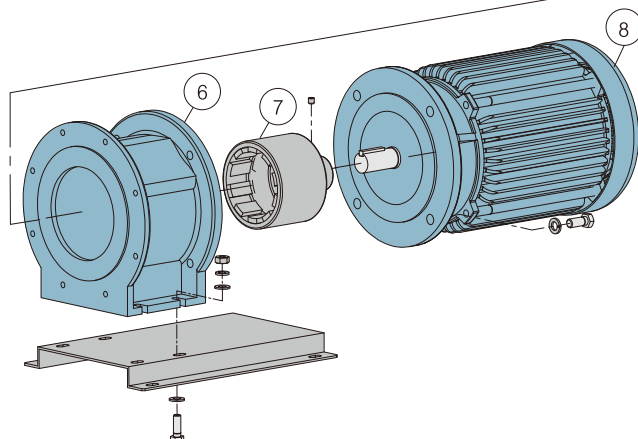
**TEX-44 0 P - C V 5 A**  
 ① ② ③ ④ ⑤ ⑥ ⑦ ⑧

| ① Series | ② Bore  | ③ Motor    |                  | ④ Material   | ⑤ Bearing           | ⑥ O-Ring | ⑦ Hz     | ⑧ Specific gravity limit |           |
|----------|---------|------------|------------------|--------------|---------------------|----------|----------|--------------------------|-----------|
| TEX      | 2...25A | 0...0.4kW  | 3...2.2kW        | P...GFR-PP   | C...Carbon          | V...FKM  | 5...50Hz | A...1.1                  | D...1.9   |
|          | 4...40A | 1...0.75kW | 5...3.7kW        | F...CFR-ETFE | R...PTFE            | E...EPDM |          | B...1.3                  | H...1.0   |
|          | 5...50A |            |                  |              | A...Alumina ceramic |          | 6...60Hz | C...1.5                  | S*Special |
|          | 6...65A | 2...1.5kW  | C...FCD+CFR-ETFE | S...SiC      | S...Special         |          |          |                          |           |

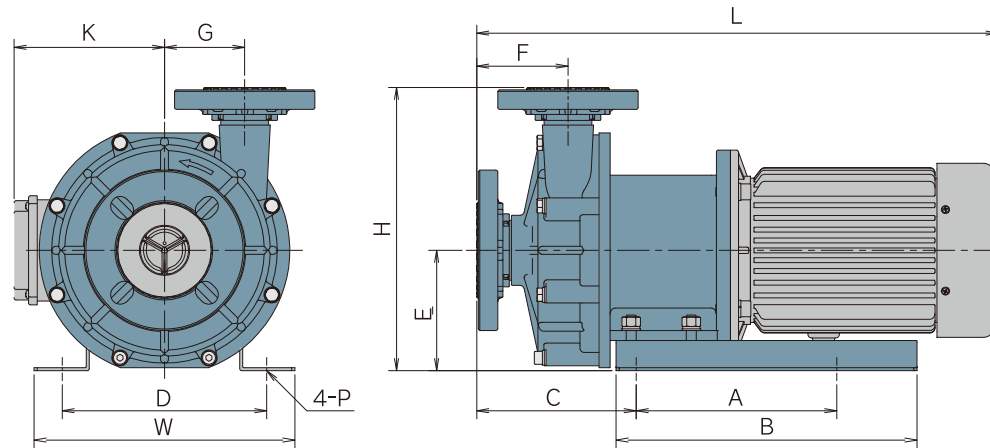
## Construction



| No. | Part name                      | TEX-P                                                  | TEX-F/C                                                            |
|-----|--------------------------------|--------------------------------------------------------|--------------------------------------------------------------------|
| 1   | Front Casing                   | GFR-PP                                                 | CFR-ETFE/FC+CFR-ETFE                                               |
| 2   | Shaft(Spindle)                 | Alumina ceramic / SiC                                  |                                                                    |
| 3   | Impeller Assy (Mg can Bearing) | GFR-PP+PP/Carbon<br>GFR-PP+PP/Ceramic<br>GFR-PP+PP/SiC | CFR-ETFE+ETFE/Carbon<br>CFR-ETFE+ETFE/Ceramic<br>CFR-ETFE+ETFE/SiC |
| 4   | O-Ring                         | FKM/EPDM/SPECIAL                                       |                                                                    |
| 5   | Rear Casing                    | GFR-PP                                                 | CFR-ETFE                                                           |
| 6   | Bracket                        | FC / PPG                                               |                                                                    |
| 7   | Drive Magnet                   | Ferrite / Neodymium                                    |                                                                    |
| 8   | Motor                          | -                                                      |                                                                    |



## Dimensions list



| MODEL        | INLET / OUTLET | W   | H   | L   | A   | B   | C   | D   | E   | F   | G  | K   | P  |
|--------------|----------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|-----|----|
| TEX-220P/F   | 25A/25A        | 160 | 255 | 449 | 130 | 210 | 171 | 130 | 115 | 90  | 65 | 120 | 12 |
| TEX-221P/F   | 25A/25A        | 160 | 255 | 479 | 130 | 210 | 171 | 130 | 115 | 90  | 65 | 127 | 12 |
| TEX-420C     | 40A/25A        | 140 | 225 | 442 | 98  | 200 | 149 | 110 | 95  | 87  | 55 | 120 | 12 |
| TEX-440P/F   | 40A/40A        | 140 | 226 | 444 | 98  | 200 | 151 | 110 | 95  | 88  | 54 | 120 | 12 |
| TEX-441P/F   | 40A/40A        | 160 | 258 | 489 | 130 | 210 | 187 | 130 | 115 | 106 | 72 | 127 | 12 |
| TEX-542P/F/C | 50A/40A        | 260 | 283 | 500 | 200 | 300 | 159 | 204 | 120 | 91  | 80 | 150 | 14 |
| TEX-543P/F/C | 50A/40A        | 260 | 283 | 525 | 200 | 300 | 159 | 204 | 120 | 91  | 80 | 150 | 14 |
| TEX-545P/F/C | 50A/40A        | 250 | 325 | 593 | 300 | 360 | 147 | 220 | 162 | 91  | 80 | 168 | 14 |
| TEX-653P/F   | 65A/50A        | 260 | 289 | 532 | 200 | 300 | 165 | 204 | 120 | 92  | 80 | 150 | 14 |
| TEX-653C     | 65A/50A        | 250 | 333 | 532 | 300 | 360 | 158 | 220 | 162 | 94  | 80 | 150 | 14 |
| TEX-655P/F/C | 65A/50A        | 250 | 331 | 600 | 300 | 360 | 153 | 220 | 162 | 92  | 80 | 168 | 14 |

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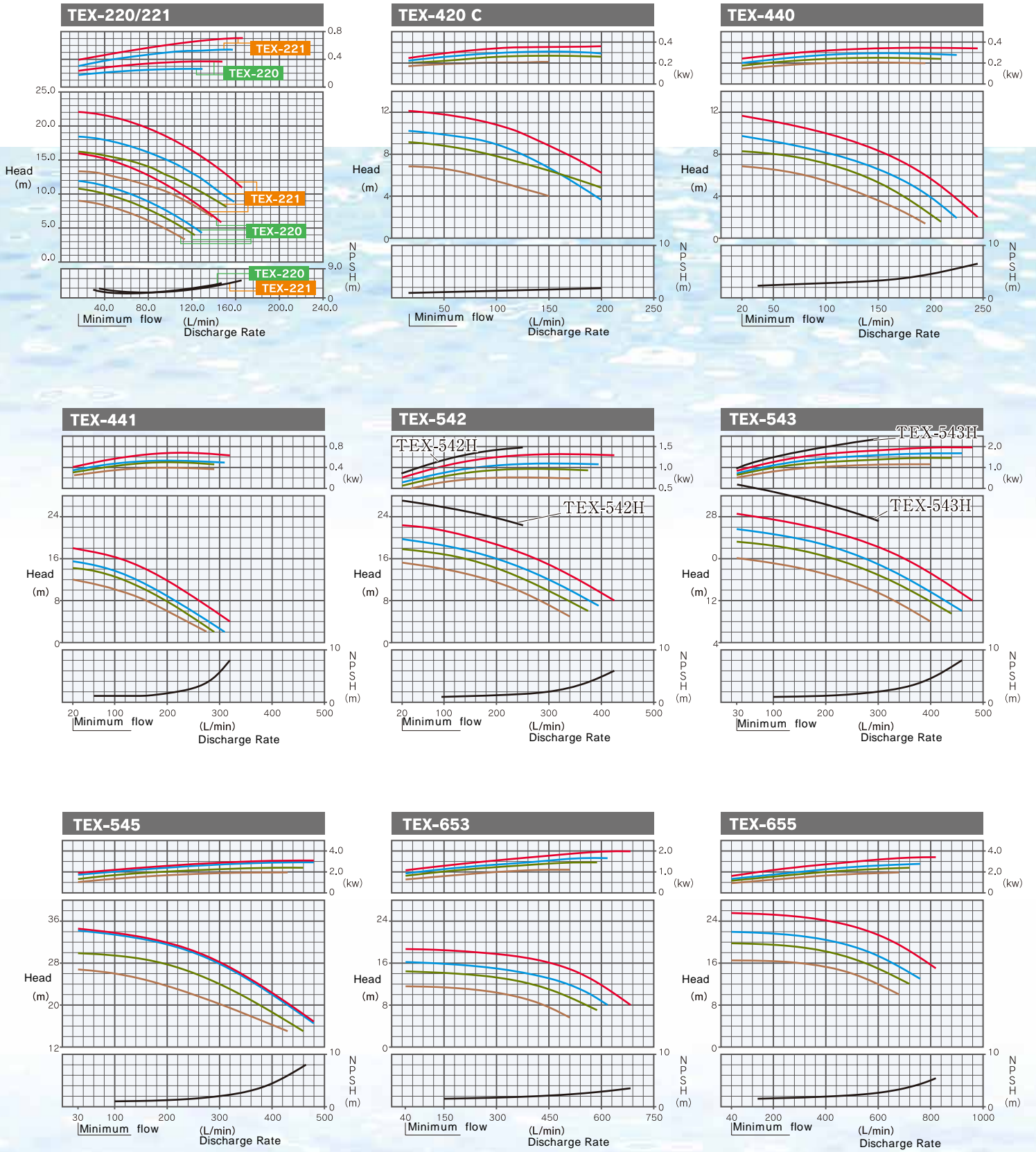
## Standard Specifications

| MODEL          | BORE<br>INLET / OUTLET | MOTOR<br>kW | IMPELLER<br>SIZE | 50Hz      |                         | 60Hz      |                         |
|----------------|------------------------|-------------|------------------|-----------|-------------------------|-----------|-------------------------|
|                |                        |             |                  | Head<br>m | Discharge rate<br>L/min | Head<br>m | Discharge rate<br>L/min |
| TEX-220 P/F    | 25A/25A                | 0.4         | A                | 13        | 60                      | 12        | 60                      |
|                |                        |             | B                | 10        | 50                      | 11        | 50                      |
|                |                        |             | C                | 9         | 50                      | 10        | 50                      |
|                |                        |             | D                | 7         | 50                      | 8         | 50                      |
| TEX-221 P/F    | 25A/25A                | 0.75        | A                | 17        | 80                      | 20        | 80                      |
|                |                        |             | B                | 16        | 80                      | 17        | 80                      |
|                |                        |             | C                | 14        | 80                      | 15        | 80                      |
|                |                        |             | D                | 10        | 80                      | 12        | 80                      |
| TEX-420 C      | 40A/25A                | 0.4         | A                | 10        | 100                     | 9         | 100                     |
|                |                        |             | B                | 8         | 90                      | 8         | 90                      |
|                |                        |             | C                | 7         | 80                      | 7         | 80                      |
|                |                        |             | D                | 6         | 50                      | 6         | 50                      |
| TEX-440 P/F    | 40A/40A                | 0.4         | A                | 9         | 110                     | 10        | 100                     |
|                |                        |             | B                | 8         | 90                      | 9         | 90                      |
|                |                        |             | C                | 7         | 80                      | 8         | 80                      |
|                |                        |             | D                | 6         | 50                      | 7         | 50                      |
| TEX-441 P/F/C  | 40A/40A                | 0.75        | A                | 13        | 150                     | 13        | 150                     |
|                |                        |             | B                | 12        | 120                     | 12        | 120                     |
|                |                        |             | C                | 11        | 120                     | 10        | 120                     |
|                |                        |             | D                | 10        | 100                     | 8         | 120                     |
| TEX-542 P/F/C  | 50A/40A                | 1.5         | A                | 18        | 210                     | 18        | 210                     |
|                |                        |             | B                | 16        | 160                     | 16        | 180                     |
|                |                        |             | C                | 14        | 160                     | 14        | 180                     |
|                |                        |             | D                | 12        | 150                     | 12        | 150                     |
| TEX-542H P/F/C | 50A/40A                | 1.5         | H                | 26        | 100                     | 29        | 100                     |
| TEX-543 P/F/C  | 50A/40A                | 2.2         | A                | 24        | 220                     | 25        | 200                     |
|                |                        |             | B                | 22        | 200                     | 22        | 200                     |
|                |                        |             | C                | 20        | 180                     | 20        | 180                     |
|                |                        |             | D                | 17        | 160                     | 18        | 150                     |
| TEX-543H P/F/C | 50A/40A                | 2.2         | H                | 33        | 150                     | 33        | 150                     |
| TEX-545 P/F/C  | 50A/40A                | 3.7         | A                | 30        | 240                     | 36        | 200                     |
|                |                        |             | B                | 30        | 240                     | 32        | 200                     |
|                |                        |             | C                | 27        | 220                     | 29        | 200                     |
|                |                        |             | D                | 22        | 220                     | 24        | 200                     |
| TEX-653 P/F/C  | 65A/50A                | 2.2         | A                | 13        | 480                     | 14        | 450                     |
|                |                        |             | B                | 11        | 450                     | 12        | 450                     |
|                |                        |             | C                | 10        | 400                     | 10        | 450                     |
|                |                        |             | D                | 8         | 320                     | 9         | 400                     |
| TEX-655 P/F/C  | 65A/50A                | 3.7         | A                | 20        | 600                     | 18        | 600                     |
|                |                        |             | B                | 16        | 600                     | 16        | 600                     |
|                |                        |             | C                | 14        | 600                     | 14        | 600                     |
|                |                        |             | D                | 12        | 500                     | 12        | 500                     |

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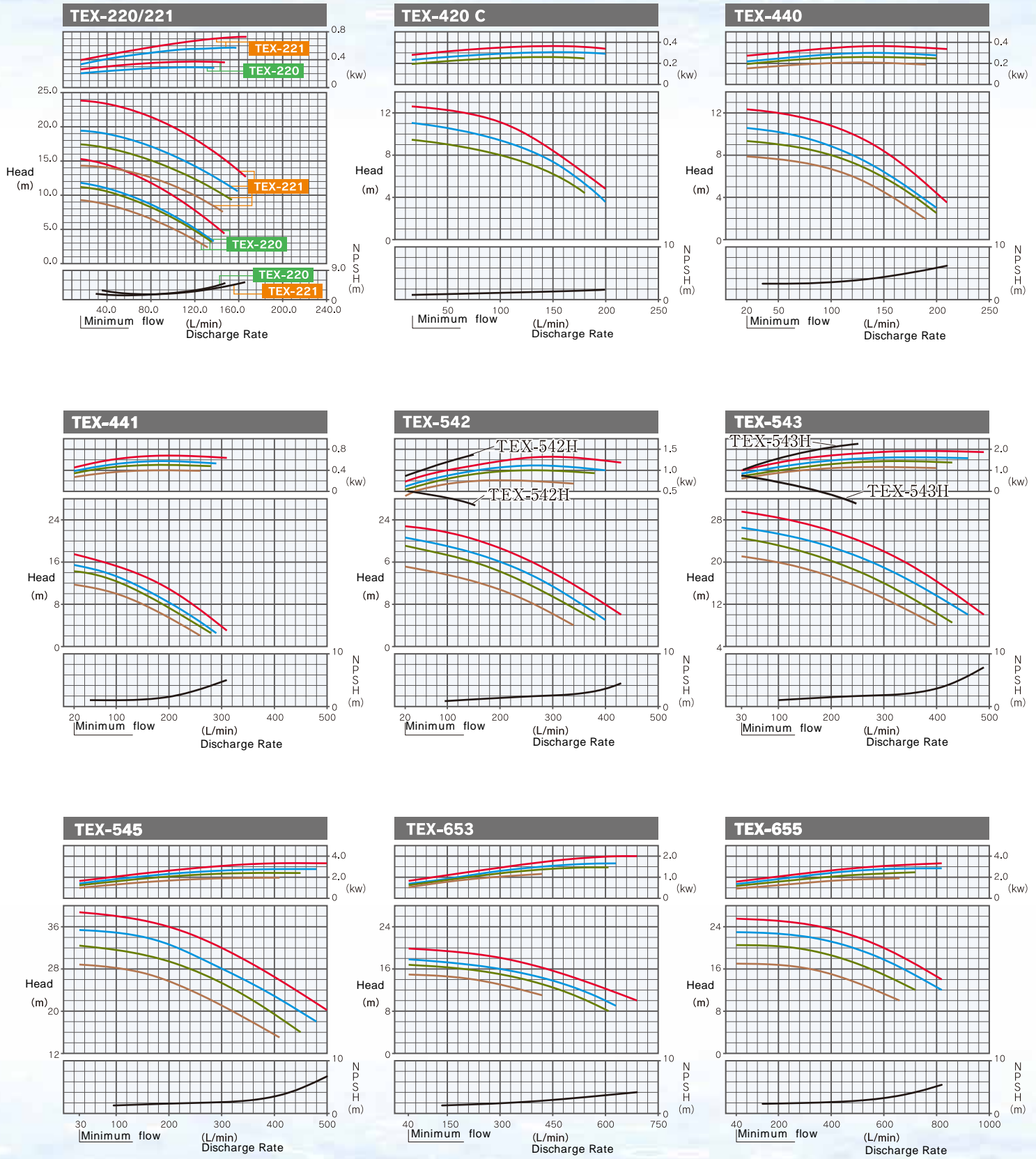
# Performance Curve 50Hz

- Specific gravity limit 1.1 Impeller-A
- Specific gravity limit 1.3 Impeller-B
- Specific gravity limit 1.5 Impeller-C
- Specific gravity limit 1.9 Impeller-D



# Performance Curve 60Hz

- Specific gravity limit 1.1 Impeller-A
- Specific gravity limit 1.3 Impeller-B
- Specific gravity limit 1.5 Impeller-C
- Specific gravity limit 1.9 Impeller-D





# TEX-L

## Midium to large capacity pump

### Feature

- Basic liquid-end material for ETFE
- High corrosion resistance to wide range of chemicals to be transferred
- Outdoor motor installed as standard.



### Range of use

- Motor output(kW) 5.5-18.5
- Discharge rate(L/min) 100-1400
- Head(m) 20-50

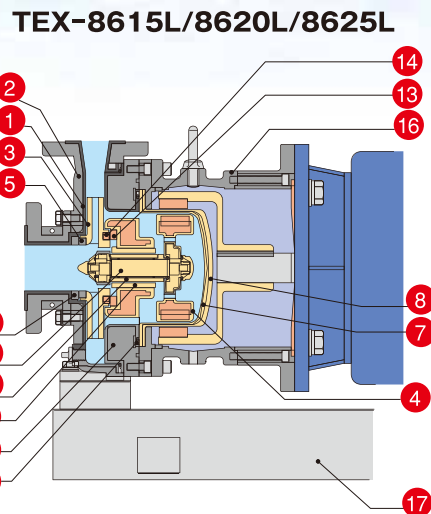
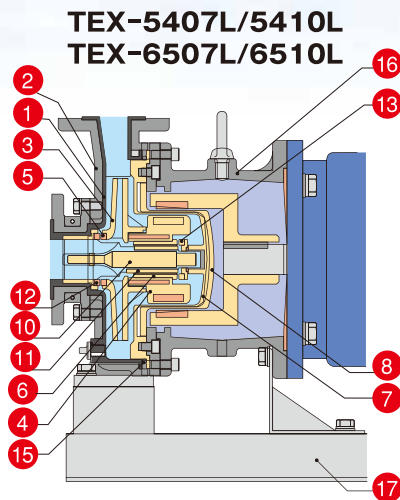
### Model constitution

**TEX-65 07 L - S V 5 A**  
 ① ② ③ ④ ⑤ ⑥ ⑦ ⑧

- ETFE is nearly equal chemical resistance with PTFE(Teflon®).
- Teflon® is trademark registration of DuPont USA.

| ① Series | ② Bore  | ③ Motor | ④ Material   | ⑤ Bearing             | ⑥ O-Ring                | ⑦ Hz                 | ⑧ Specific gravity limit |             |
|----------|---------|---------|--------------|-----------------------|-------------------------|----------------------|--------------------------|-------------|
| TEX      | 4...40A | 6...65A | L...CFR-ETFE | C...Carbon<br>S...SiC | V...FKM<br>E...EPDM     | 5...50Hz<br>6...60Hz | A...1.1                  | D...1.9     |
|          |         |         |              |                       |                         |                      | B...1.3                  | S...Special |
|          | 5...50A | 8...80A |              |                       | 10...7.5kW<br>15...11kW | S...Special          | C...1.5                  |             |

### Construction



| No. | Part name          | TEX 5407/5410L             | TEX-6507/6510L | TEX-8615/8620/8625L |
|-----|--------------------|----------------------------|----------------|---------------------|
| 1   | Front casing       | CFR-ETFE                   |                |                     |
| 2   | Front casing cover | Cast Iron                  |                |                     |
| 3   | Impeller           | CFR-ETFE                   |                |                     |
| 4   | Magnetic can       | Natural ETFE               |                |                     |
| 5   | Mouth ring         | PTFE / SiC                 | PTFE / SiC     | SiC                 |
| 6   | Bearing            | PTFE / SiC                 | PTFE / SiC     | SiC                 |
| 7   | Rear casing        | CFR-ETFE                   |                |                     |
| 8   | Rear casing cover  | Specially reinforced resin |                |                     |
| 9   | Bearing plate      | —                          | —              | FC+ ETFE            |
| 10  | Shaft              | Ceramic / SiC              | Ceramic / SiC  | ETFE+SUS304         |
| 11  | Shaft sleeve       | —                          | —              | SiC                 |
| 12  | Front thrust       | Ceramic / SiC              | Ceramic / SiC  | SiC                 |
| 13  | Rear thrust        | Ceramic / SiC              | Ceramic / SiC  | SiC                 |
| 14  | Reae ring          | —                          | —              | SiC                 |
| 15  | O-ring             | FKM/EPDM/ Special          |                |                     |
| 16  | Bracket            | Cast Iron                  |                |                     |
| 17  | Base               | SUS304                     |                |                     |

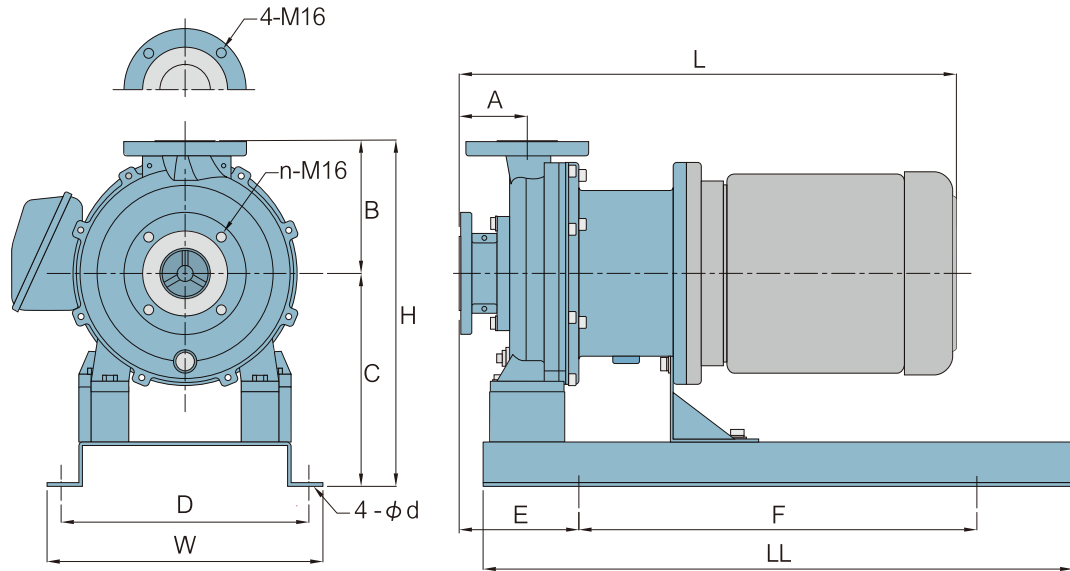
### Standard Specifications

| MODEL    | BORE INLET/OUTLET | MOTOR (kW) | Head (m) 50/60Hz | Dis. rate (L/min) |
|----------|-------------------|------------|------------------|-------------------|
| TEX-5407 | 50A/40A           | 5.5        | 41               | 300               |
| TEX-5410 | 50A/40A           | 7.5        | 49               | 300               |
| TEX-6507 | 65A/50A           | 5.5        | 31               | 500               |
| TEX-6510 | 65A/50A           | 7.5        | 31/39            | 500               |
| TEX-8615 | 80A/65A           | 11         | 34               | 1000              |
| TEX-8620 | 80A/65A           | 15         | 34/45            | 1000              |
| TEX-8625 | 80A/65A           | 18.5       | 34/53            | 1000              |

\*The specific gravity limit varies with the impeller diameter.  
 For details, contact your local distributor.



# Dimensions list



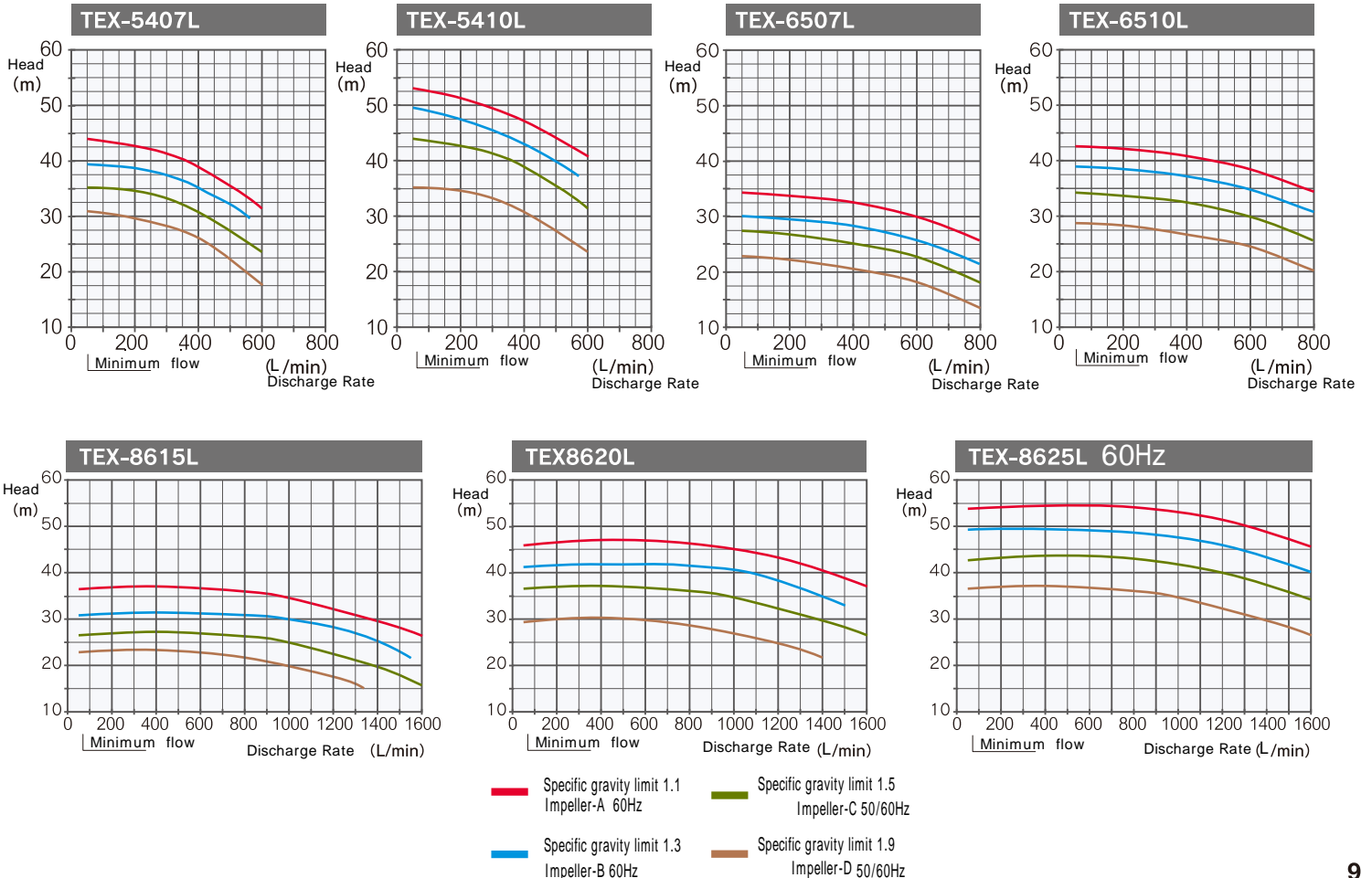
| MODEL              | INLET / OUTLET | A   | B   | C   | D   | E   | F   | H   | L                    | LL  | W   | d  | n |
|--------------------|----------------|-----|-----|-----|-----|-----|-----|-----|----------------------|-----|-----|----|---|
| TEX-5407/5410      | 50A/40A        | 80  | 180 | 280 | 320 | 150 | 540 | 460 | 670                  | 800 | 360 | 18 | 4 |
| TEX-6507/6510      | 65A/50A        | 80  | 160 | 252 | 320 | 150 | 540 | 412 | 717                  | 800 | 360 | 18 | 4 |
| TEX-8615/8620/8625 | 80A/65A        | 100 | 180 | 300 | 350 | 190 | 600 | 480 | 887<br>931<br>(8625) | 900 | 390 | 20 | 8 |

:mm

• Please note that structure and dimension may change without prior notice. • When designing, request drawing and reconfirm.

## Performance Curve 50Hz · 60Hz

- Specific gravity limit 1.1 Impeller-A
- Specific gravity limit 1.5 Impeller-C
- Specific gravity limit 1.3 Impeller-B
- Specific gravity limit 1.9 Impeller-D



# Magnetic pumps with medium capacity

## ■ Features

- The pumps more than 0.75kW use a Neodymium magnet, Small size light weighted magnet can.
- New development impeller , One structure  
By molding impeller and shroud one,The balance of the impeller improved.  
Minimized vibration.
- All model resin bracket and pump base.  
Bracket and pump base made by resin superior in corrosion resistance.  
Corrosion resistance improved drastically.
- Outdoor motor installed at standard.



## ■ Model constitution

TED-400P-RV5A

① ② ③ ④ ⑤ ⑥ ⑦

| ① Dis. Bore |     | ② Motor |        |   |       | ③ Material |          |
|-------------|-----|---------|--------|---|-------|------------|----------|
| 4           | 40A | 0       | 0.4kW  | 3 | 2.2kW | P          | GFR-PP   |
| 5           | 50A | 1       | 0.75kW | 5 | 3.7kW | F          | CFR-ETFE |
|             |     | 2       | 1.5kW  |   |       |            |          |

| ④ Bearing |      | ⑤ オリング |         | ⑥ Hz |      | ⑧ Specific gravity limit |     |   |         |
|-----------|------|--------|---------|------|------|--------------------------|-----|---|---------|
| R         | PTFE | V      | FKM     | 5    | 50Hz | A                        | 1.1 | D | 1.9     |
|           |      | E      | EPDM    | 6    | 60Hz | B                        | 1.3 | S | special |
|           |      | S      | special |      |      | C                        | 1.5 |   |         |

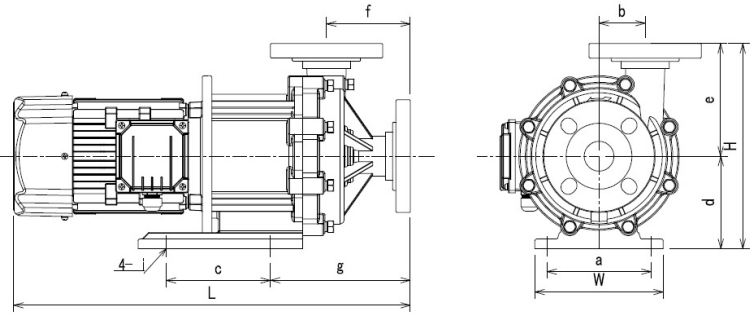
\* ETFE is nearly equal chemical resistance with PTFE(Teflon®).  
\* Teflon® is trademark registration of DuPont USA.

## Standard specifications

| MODEL      | BORE      | 50Hz           | 60Hz           |
|------------|-----------|----------------|----------------|
| TED-400P/F | 40A × 40A | 8m × 150L/min  | 8m × 150L/min  |
| TED-401P/F | 40A × 40A | 12m × 200L/min | 12m × 200L/min |
| TED-402P/F | 50A × 40A | 12m × 300L/min | 12m × 300L/min |
| TED-403P/F | 50A × 40A | 18m × 360L/min | 17m × 360L/min |
| TED-405P/F | 50A × 40A | 25m × 400L/min | 26m × 400L/min |
| TED-505P/F | 60A × 50A | 20m × 600L/min | 20m × 600L/min |

## Dimensions list

| 型式      | W   | H   | L   | a   | b    | c   | d   | f   | g   |
|---------|-----|-----|-----|-----|------|-----|-----|-----|-----|
| TED-400 | 140 | 216 | 438 | 110 | 51   | 98  | 95  | 87  | 150 |
| TED-401 | 160 | 254 | 495 | 130 | 57.5 | 130 | 115 | 103 | 185 |
| TED-402 | 260 | 255 | 504 | 208 | 65   | 200 | 115 | 89  | 158 |
| TED-403 | 260 | 255 | 530 | 208 | 65   | 200 | 115 | 89  | 158 |
| TED-405 | 260 | 270 | 578 | 230 | 65   | 200 | 130 | 89  | 158 |
| TED-505 | 260 | 298 | 620 | 230 | 65   | 260 | 135 | 110 | 175 |

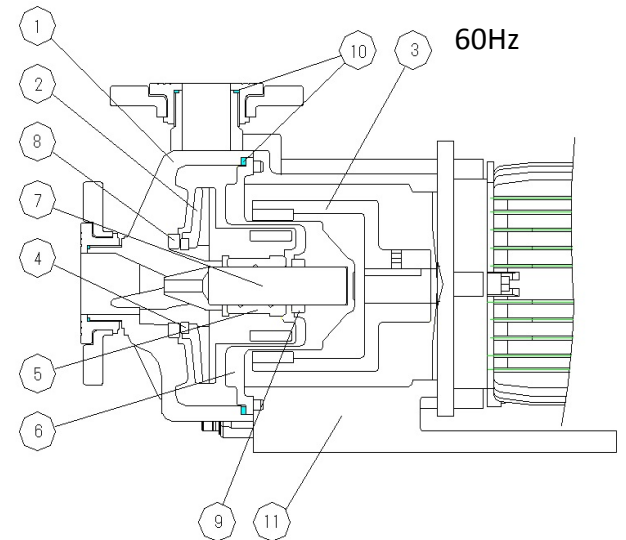


\*Please note that structure and dimension may change without prior notice. \*When designing, request drawing and reconfirm.

## Construction

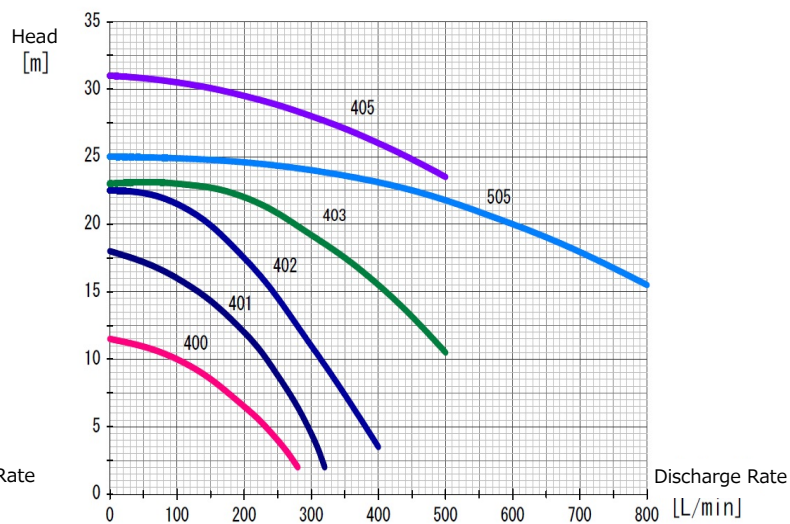
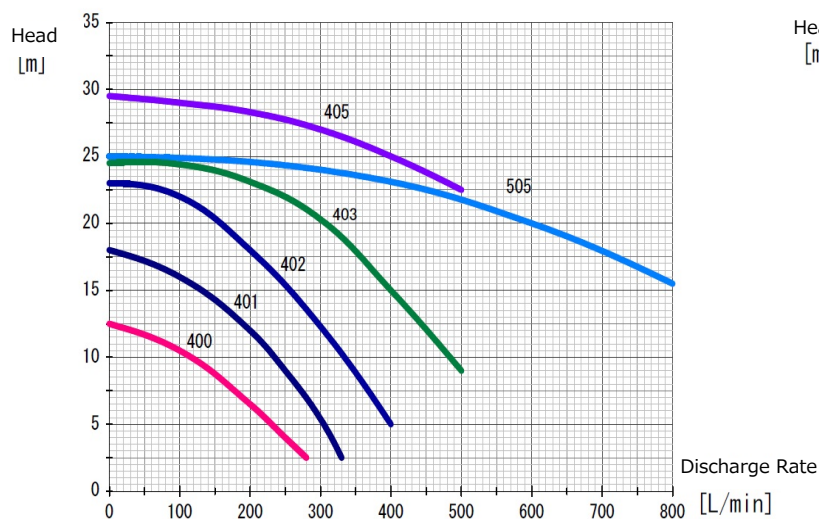
50Hz

| No. | Part name    | Material                        |
|-----|--------------|---------------------------------|
| ①   | Front casing | GFR-PP / CFR-ETFE               |
| ②   | Impeller     | GFR-PP / CFR-ETFE               |
| ③   | Drive magnet | Ferrite / Neodymium             |
| ④   | Mouth ring   | PTFE                            |
| ⑤   | Bearing      | Carbon / Alumina ceramic / PTFE |
| ⑥   | Rear casing  | GFR-PP / CFR-ETFE               |
| ⑦   | Shaft        | Alumina ceramic                 |
| ⑧   | Front thrust | Alumina ceramic                 |
| ⑨   | Rear thrust  | Alumina ceramic                 |
| ⑩   | O-ring       | FKM / EPDM                      |
| ⑪   | Bracket      | GFR-PP                          |



60Hz

## Performance Curve



\*Performance based on water @ 70 °F (21 °C). Fluids with specific gravity other than 1.1 should be reviewed by the factory.

# 316 STAINLESS VERTICAL VOLUTE PUMP

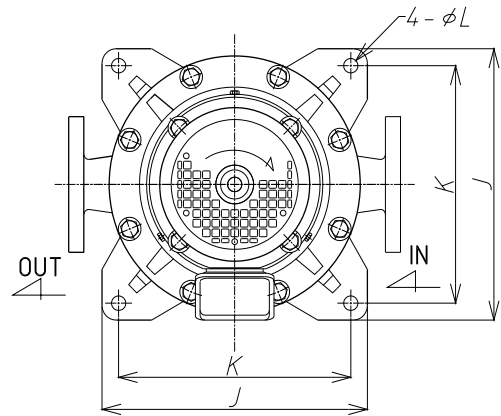
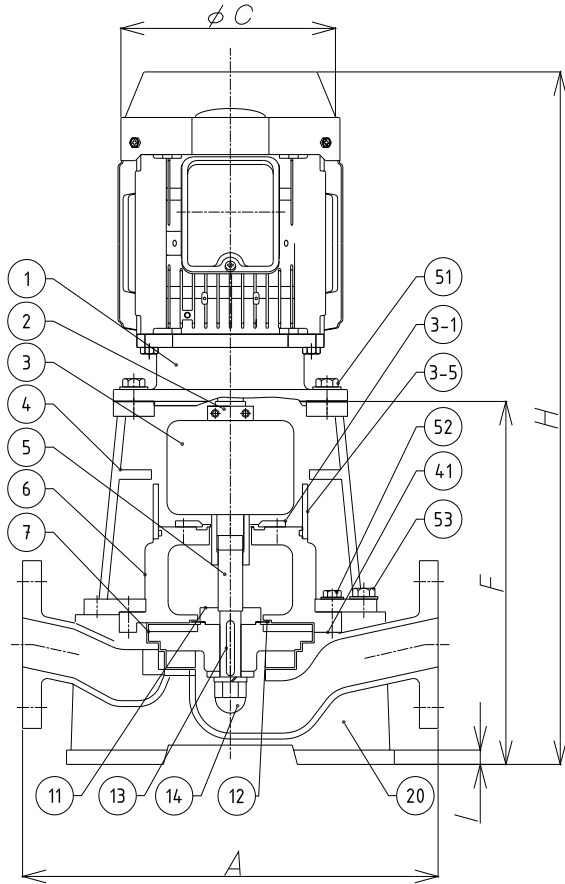
- 316 Stainless steel material.
- Max. fluid temperature :203F、 95 .
- High efficiency , leak-free operation and easy maintenance.
- Excellent chemical resistance strong alkalinity.
- CSS-seal is non-contact to a liquid and other part



## Things to be aware of when using

- Use inverter must be driving in 40Hz or more.
- suction head less than +4m

## Construction



## Typical applications

- Chemical or water recirculation.
- Waste treatment.
- Plating solutions.
- PCB process chemical recirculation

| No . | Part name       | Material     | No . | Part name      | Material | No . | Part name | Material |
|------|-----------------|--------------|------|----------------|----------|------|-----------|----------|
| 1    | Motor           | -----        | 11   | Collar         | SUS316   | 52   | Bolt      | SUS304   |
| 2    | Separate Collar | S45C         | 12   | Shaft Packing  | PTFE     | 41   | O-Ring    | FKM      |
| 3    | CSS-Seal        | ----         | 13   | Shaft Key      | SUS316   | 53   | Bolt      | SUS304   |
| 4    | Motor Stand     | Cast Iron    | 14   | Impeller Nut   | SUS316   |      |           |          |
| 5    | Shaft           | SUS316       | 51   | Bolt           | SUS304   |      |           |          |
| 6    | Back Casing     | SCS14/SUS316 | 3-1  | Packing Flange | SUS316   |      |           |          |
| 7    | Impeller        | PTFE         | 3-5  | Seal Cover     | PMMA     |      |           |          |

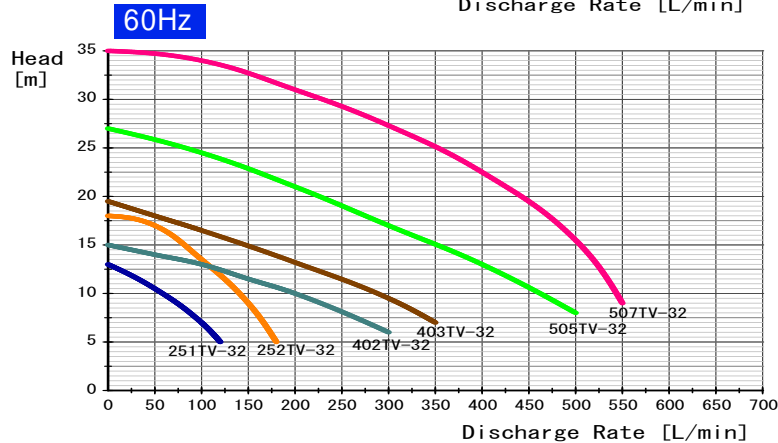
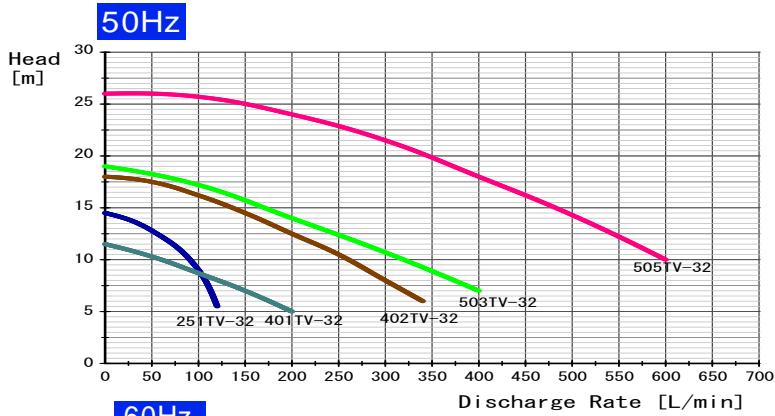
## Dimensions list

| MODEL        | INLET /OUTLET | Motor kW | A   | C   | F   | H   | I  | J   | K   | L  |
|--------------|---------------|----------|-----|-----|-----|-----|----|-----|-----|----|
| TEK-251TV-32 | 2 5 A / 2 5 A | 0.75kW   | 355 | 170 | 303 | 536 | 12 | 280 | 245 | 15 |
| TEK-252TV-32 |               | 1.5kW    |     | 198 |     | 578 |    |     |     |    |
| TEK-401TV-32 | 4 0 A / 4 0 A | 0.75kW   | 355 | 170 | 303 | 536 | 12 | 280 | 245 | 15 |
| TEK-402TV-32 |               | 1.5kW    |     | 198 |     | 578 |    |     |     |    |
| TEK-403TV-32 |               | 2.2kW    |     | 198 |     | 578 |    |     |     |    |
| TEK-503TV-32 | 5 0 A / 5 0 A | 2.2kW    | 405 | 198 | 340 | 615 | 12 | 315 | 280 | 15 |
| TEK-505TV-32 |               | 3.7kW    |     | 214 |     | 673 |    |     |     |    |
| TEK-507TV-32 |               | 5.5kW    |     | 252 |     | 327 |    |     |     |    |

• Please note that structure and dimension may change without prior notice. • When designing,request drawing and reconfirm.



## Performance Curve



\*Performance based on water @ 70 °F (21 °C). Fluids with specific gravity other than 1.0 should be reviewed by the factory.

## Standard Specifications

### 50Hz

| MODEL        | BORE mm | Motor kW | Head m | Dis.Late L/min |
|--------------|---------|----------|--------|----------------|
| TEK-251TV-32 | 25      | 0.75     | 7      | 120            |
| TEK-401TV-32 | 40      | 0.75     | 7      | 160            |
| TEK-402TV-32 |         | 1.5      | 10     | 260            |
| TEK-503TV-32 | 50      | 2.2      | 9      | 350            |
| TEK-505TV-32 |         | 3.7      | 10     | 600            |

### 60Hz

| MODEL        | BORE mm | Motor kW | Head m | Dis.Late L/min |
|--------------|---------|----------|--------|----------------|
| TEK-251TV-32 | 25      | 0.75     | 7      | 100            |
| TEK-252TV-32 |         | 1.5      | 8      | 160            |
| TEK-402TV-32 | 40      | 1.5      | 8      | 260            |
| TEK-403TV-32 |         | 2.2      | 9      | 320            |
| TEK-505TV-32 | 50      | 3.7      | 13     | 400            |
| TEK-507TV-32 |         | 5.5      | 16     | 500            |

## Running Monitor

EOCR monitors the input power to the pump.  
Capable of detecting both over-load and under-load conditions.  
EOCR monitor offers protection from off-design conditions.  
such as

- Dry running
- Open-phase
- Dead head
- End of curve
- Cavitation
- Excessive bearing wear

Specifications

Relay output: 2-SPST, 3A/250VAC Resistive.

Supply Voltage: 110 VAC +-15% / 220 VAC +-15%

Frequency: 50 Hz / 60 Hz

Rated Current: Over-Current(oc) 0.5~960A(Over 60A with External CTs)

Under-Current(uc) 0.5~59A/OFF(Over 60A with External CTs)

Current Sensing: 3-CT

Mounting: 35mm DIN-Rail



# SELF-PRIMING VERTICAL VOLUTE CHEMICAL PUMP

## TEK-S-PP Polypropylene



### Typical applications

- Chemical or water recirculation.
- Waste treatment.
- Various plating solutions recirculation.
- PCB Plating solutions
- Wet processing
- Deliver Acids

### Features

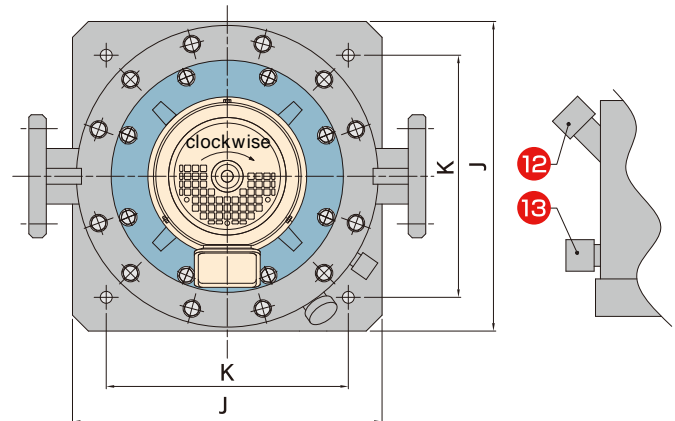
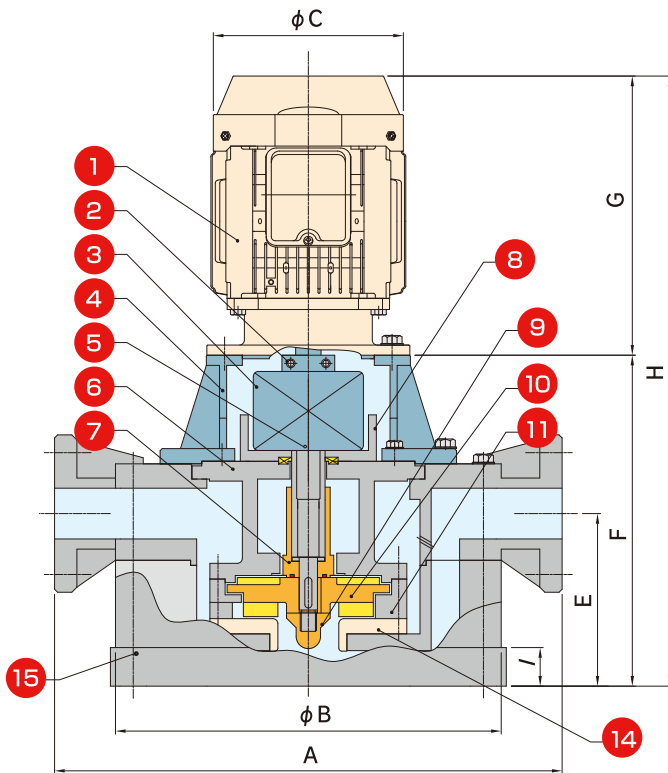
- We pump use resin having excellent chemical resistance to various chemicals strong alkalinity and acidity, sable in a wide range.
- We pump which is most suitable for electroless chemical copper.
- CSS-seal is non-contact to a liquid and other part.
- The water for self-priming, please supply water only in the first time, Water supply is unnecessary after the 2nd



### Things to be aware of when using

- A resulting rise in temperature of liquid in the pump may cause damage to the pump.
- The pump should never be operated for a lengthy period with the valve closed.
- Do not run pump Cavitation

### Construction



| No. | Part name               | Material | No. | Part name     | Material |
|-----|-------------------------|----------|-----|---------------|----------|
| 1   | Motor                   | —        | 9   | Impeller nut  | GFR-PP   |
| 2   | Separate collar         | S45C     | 10  | Impeller      | PP       |
| 3   | CSS <sup>®1</sup> -seal | —        | 11  | Chamber       | PP       |
| 4   | Motor stand             | FC200    | 12  | Inlet cap     | PP       |
| 5   | Shaft                   | SUS304   | 13  | Drain cap     | PP       |
| 6   | Back casing             | PP       | 14  | Suction cover | PP       |
| 7   | Sleeve                  | GFR-PP   | 15  | Casing        | PP       |
| 8   | Seal cover              | PMMA     |     |               |          |

※1) CSS...Centrifugal Seal System

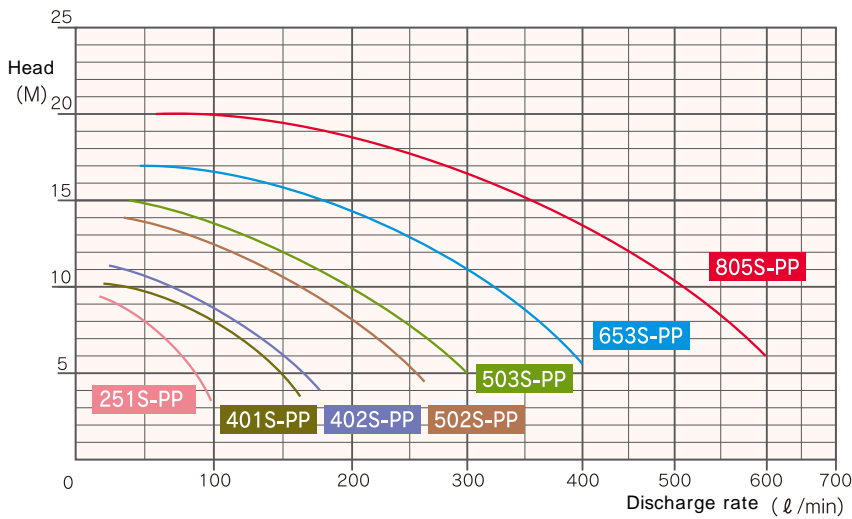
### Dimensions list

| MODEL           | INLET /OUTLET | Motor kW | A   | B   | $\phi$ C | E   | F   | G   | H   | I  | J   | K   | $\phi$ L |
|-----------------|---------------|----------|-----|-----|----------|-----|-----|-----|-----|----|-----|-----|----------|
| TEK-251S-PP     | 25A/25A       | 0.75     | 420 | 320 | 163      | 140 | 298 | 233 | 531 | 28 | 325 | 245 | 15       |
| TEK-252S-PP     |               | 1.5      |     |     | 187      |     |     | 275 | 573 |    |     |     |          |
| TEK-401S-PP     | 40A/40A       | 0.75     | 500 | 380 | 163      | 170 | 326 | 233 | 559 | 38 | 390 | 305 | 15       |
| TEK-402S-PP     |               | 1.5      |     |     | 187      |     |     | 275 | 601 |    |     |     |          |
| TEK-502,503S-PP | 50A/50A       | 1.5/2.2  | 500 | 380 | 187      | 170 | 326 | 275 | 601 | 38 | 390 | 305 | 15       |
| TEK-653S-PP     | 65A/65A       | 2.2      | 560 | 445 | 187      | 220 | 347 | 275 | 637 | 48 | 460 | 360 | 15       |
| TEK-655S-PP     |               | 3.7      |     |     | 202      |     | 354 | 326 | 724 |    |     |     |          |
| TEK-805S-PP     | 80A/80A       | 3.7      | 560 | 445 | 202      | 220 | 354 | 326 | 724 | 48 | 460 | 360 | 15       |
| TEK-807S-PP     |               | 5.5      |     |     | 243      |     | 334 | 370 | 733 |    |     |     |          |

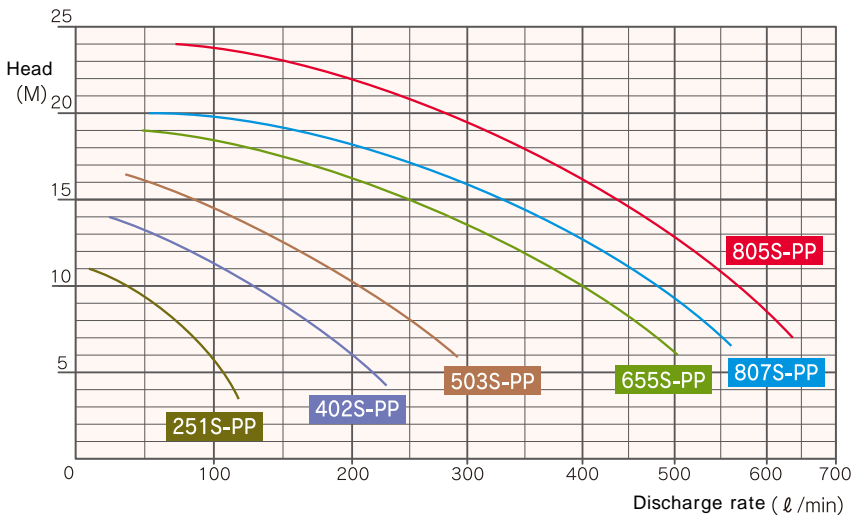
• Please note that structure and dimension may change without prior notice  
• When designing, request drawing and reconfirm

## Performance Curve

50Hz



60Hz



\*Performance based on water @ 70 °F (21 °C). Fluids with specific gravity other than 1.0 should be reviewed by the factory.

## CSS - Seal Features

### Centrifugal Seal System

- CSS-seal is non-contact to a liquid and other part.
- Therefore, abrasion and the heat generation are not generated.
- While a pump running, a seal impeller encloses a liquid.
- While a pump stops, CSS-seal encloses a liquid.



#### Things to be aware of when using

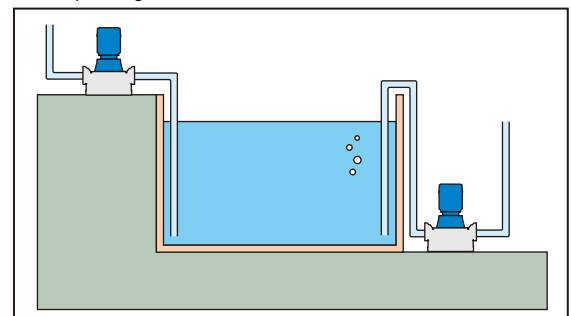
- Use inverter must be driving in 40Hz or more.
- suction head less than +4m

## Standard Specifications

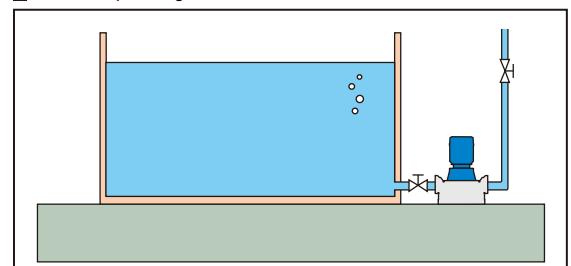
| MODEL       | BORE mm | Motor kW | Head M | Dis.Late L/min |
|-------------|---------|----------|--------|----------------|
| TEK-251S-PP | 25      | 0.75     | 5      | 80             |
| TEK-401S-PP | 40      | 0.75     | 5      | 150            |
| TEK-402S-PP | 40      | 1.5      | 6      | 150            |
| TEK-502S-PP | 50      | 1.5      | 7      | 220            |
| TEK-503S-PP | 50      | 2.2      | 7      | 245            |
| TEK-653S-PP | 65      | 2.2      | 8      | 360            |
| TEK-805S-PP | 80      | 3.7      | 10     | 510            |

| MODEL       | BORE mm | Motor kW | Head M | Dis.Late L/min |
|-------------|---------|----------|--------|----------------|
| TEK-251S-PP | 25      | 0.75     | 5      | 110            |
| TEK-402S-PP | 40      | 1.5      | 9      | 150            |
| TEK-503S-PP | 50      | 2.2      | 10     | 210            |
| TEK-655S-PP | 65      | 3.7      | 10     | 400            |
| TEK-805S-PP | 80      | 3.7      | 11     | 450            |
| TEK-807S-PP | 80      | 5.5      | 13     | 500            |

### self-priming installation



### non self-priming installation



No problem at any installation

# SELF-PRIMING VERTICAL VOLUTE CHEMICAL PUMP

## TEK-S-P

PVC



### Typical applications

- Chemical or water recirculation.
- Wwaste treatment.
- Various plating solutions recirculation
- PCB Plating solutions
- Wet processing
- Deliver Acids

### Features

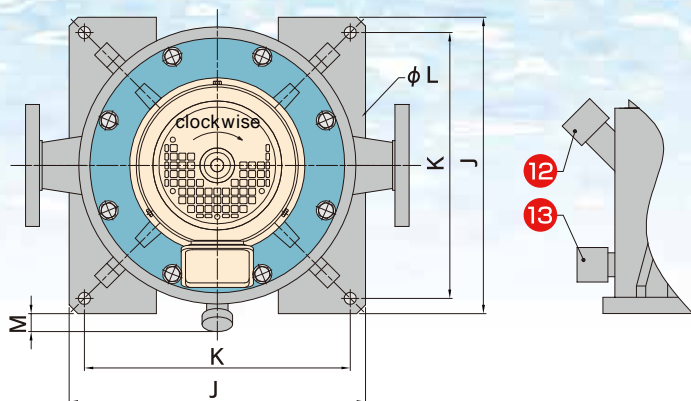
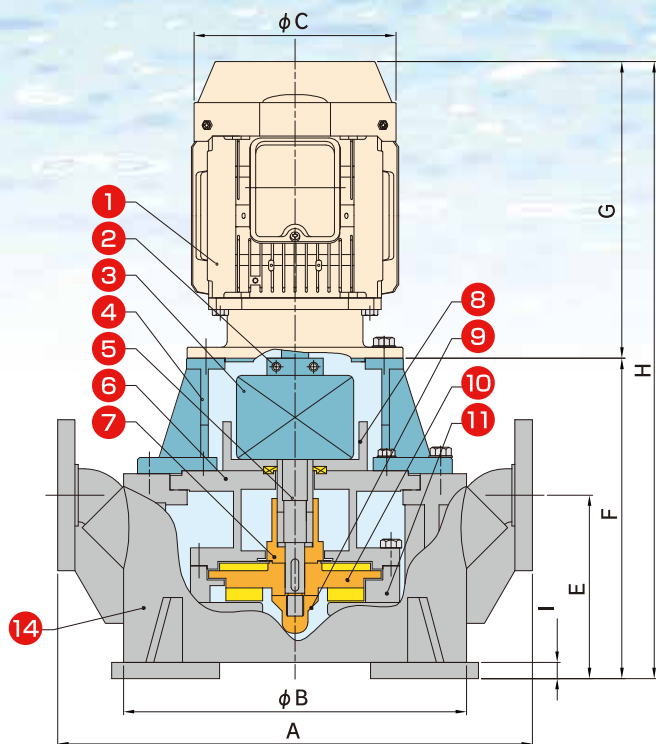
- We pump use resin having excellent chemical resistance to various chemicals strong alkalinity and acidity, sable in a wide range.
- CSS-seal is non-contact to a liquid and other part.
- The water for self-priming, please supply water only in the first time, Water supply is unnecessary after the 2nd

### Things to be aware of when using



- A resulting rise in temperature of liquid in the pump may cause damage to the pump.
- The pump should never be operated for a lengthy period with the valve closed.
- Do not run pump Cavitation

### Construction



| Part name                 | Mterial | No.            | Part name | Mterial |
|---------------------------|---------|----------------|-----------|---------|
| 1 Motor                   | —       | 8 Seal cover   | PMMA      |         |
| 2 Separete collar         | S45C    | 9 Impeller nut | GFR-PP    |         |
| 3 CSS <sup>※1</sup> -seal | —       | 10 Impeller    | HT-PVC    |         |
| 4 Motor Stand             | FC200   | 11 Chamber     | PVC       |         |
| 5 Shaft                   | SUS304  | 12 Inlet cap   | PVC       |         |
| 6 Back casing             | HT-PVC  | 13 Drain cap   | PVC       |         |
| 7 Shaft sleeve            | GFR-PP  | 14 Casing      | PVC       |         |

※1) CSS···Centrifugal Seal System

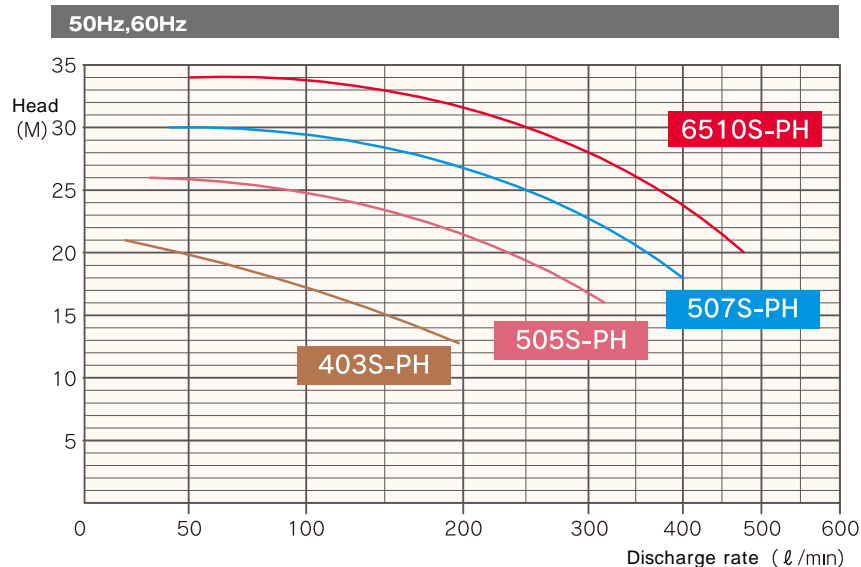
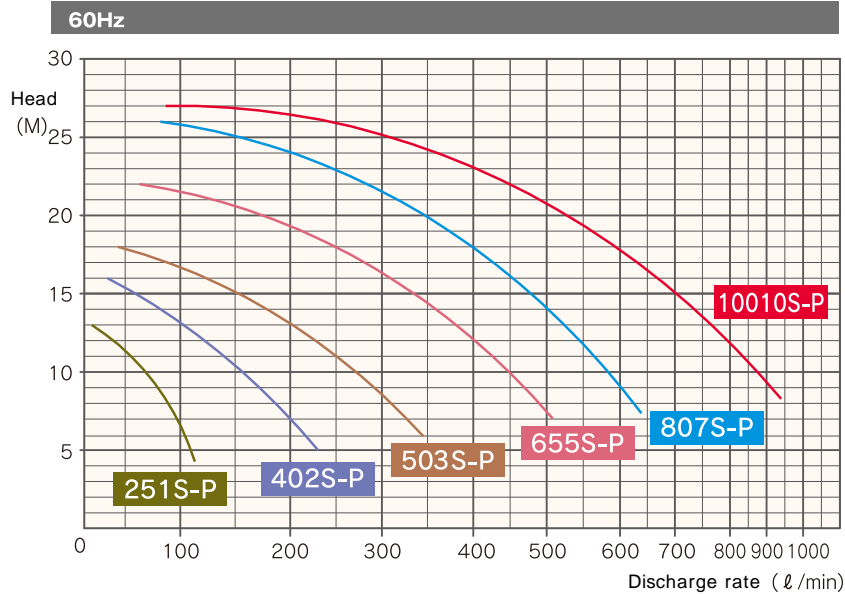
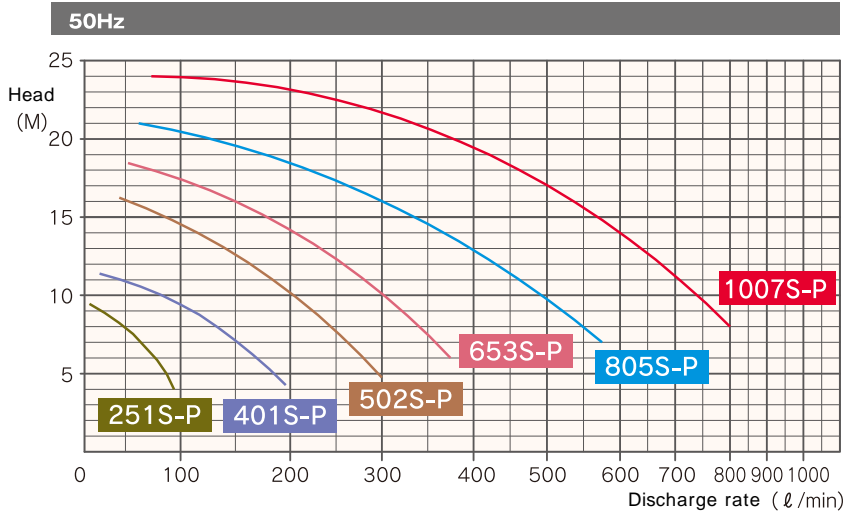
### Dimensions list

| MODEL          | INLET / OUTLET | Motor kW | A   | B   | φ C | E   | F   | G   | H   | I  | J   | K   | φ L | M   |
|----------------|----------------|----------|-----|-----|-----|-----|-----|-----|-----|----|-----|-----|-----|-----|
| TEK-251S-P     | 25A/25A        | 0.75     | 350 | 267 | 163 | 140 | 267 | 233 | 500 | 15 | 280 | 245 | 14  | 60  |
| TEK-252S-P     |                | 1.5      |     |     | 187 |     |     | 275 | 542 |    |     |     |     |     |
| TEK-401S-P     | 40A/40A        | 0.75     | 440 | 318 | 163 | 170 | 297 | 233 | 530 | 15 | 340 | 305 | 14  | 60  |
| TEK-402S-P     |                | 1.5      |     |     | 187 |     |     | 275 | 572 |    |     |     |     |     |
| TEK-502,503S-P | 50A/50A        | 1.5/2.2  | 440 | 318 | 187 | 170 | 297 | 275 | 572 | 15 | 340 | 305 | 14  | 60  |
| TEK-653S-P     | 65A/65A        | 2.2      | 560 | 420 | 187 | 220 | 357 | 275 | 632 | 20 | 400 | 360 | 14  | 80  |
| TEK-655S-P     |                | 3.7      |     |     | 202 |     | 364 | 326 | 690 |    |     |     |     |     |
| TEK-657S-P     |                | 5.5      |     |     | 243 |     | 344 | 370 | 714 |    |     |     |     |     |
| TEK-805S-P     | 80A/80A        | 3.7      | 560 | 420 | 202 | 220 | 364 | 326 | 690 | 20 | 400 | 360 | 14  | 80  |
| TEK-807S-P     |                | 5.5      |     |     | 243 |     | 344 | 370 | 714 |    |     |     |     |     |
| TEK-1007S-P    | 100A/100A      | 5.5      | 660 | 470 | 243 | 330 | 465 | 370 | 835 | 30 | 485 | 440 | 15  | 100 |
| TEK-10010S-P   |                | 7.5      |     |     | 243 |     | 370 | 835 |     |    |     |     |     |     |
| TEK-403S-PH    | 40A/40A        | 2.2      | 440 | 318 | 187 | 170 | 297 | 275 | 572 | 15 | 340 | 305 | 14  | 60  |
| TEK-505S-PH    | 50A/50A        | 3.7      | 490 | 370 | 202 | 220 | 364 | 326 | 690 | 20 | 365 | 325 | 14  | 80  |
| TEK-507S-PH    |                | 5.5      |     |     | 243 |     | 344 | 370 | 714 |    |     |     |     |     |
| TEK-6510S-P    | 65A/65A        | 7.5      | 560 | 420 | 243 | 220 | 354 | 370 | 724 | 25 | 400 | 360 | 14  | 100 |

• Please note that structure and dimension may change without prior notice  
 • When designing, request drawing and reconfirm



## Performance Curve



## Standard Specifications

| MODEL       | BORE mm | Motor kW | Head M | Dis.Rate L/min |
|-------------|---------|----------|--------|----------------|
| TEK-251S-P  | 25      | 0.75     | 5      | 80             |
| TEK-401S-P  | 40      | 0.75     | 7      | 150            |
| TEK-502S-P  | 50      | 1.5      | 9      | 230            |
| TEK-653S-P  | 65      | 2.2      | 12     | 255            |
| TEK-805S-P  | 80      | 3.7      | 14     | 360            |
| TEK-1007S-P | 100     | 5.5      | 17     | 500            |

| MODEL        | BORE mm | Motor kW | Head M | Dis.Rate L/min |
|--------------|---------|----------|--------|----------------|
| TEK-251S-P   | 25      | 0.75     | 5      | 110            |
| TEK-402S-P   | 40      | 1.5      | 7      | 200            |
| TEK-503S-P   | 50      | 2.2      | 9      | 290            |
| TEK-655S-P   | 65      | 3.7      | 12     | 400            |
| TEK-807S-P   | 80      | 5.5      | 14     | 500            |
| TEK-10010S-P | 100     | 7.5      | 17     | 630            |

| MODEL        | BORE mm | Motor kW | Head M | Dis.Rate L/min |
|--------------|---------|----------|--------|----------------|
| TEK-403S-PH  | 40      | 2.2      | 15     | 150            |
| TEK-505S-PH  | 50      | 3.7      | 20     | 240            |
| TEK-507S-PH  | 50      | 5.5      | 25     | 250            |
| TEK-6510S-PH | 65      | 7.5      | 28     | 300            |



### Things to be aware of when using

- Use inverter must be driving in 40Hz or more.
- suction head less than +4m

\*Performance based on water @ 70 °F (21 °C). Fluids with specific gravity other than 1.0 should be reviewed by the factory.

# NON-SEAL VERTICAL PUMP

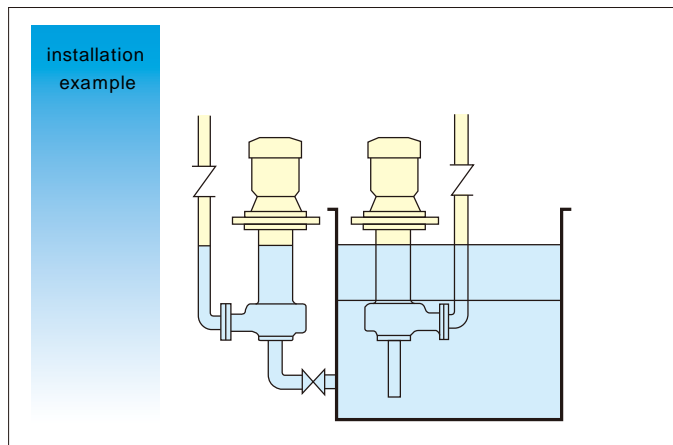
## TEK-V-P

PVC

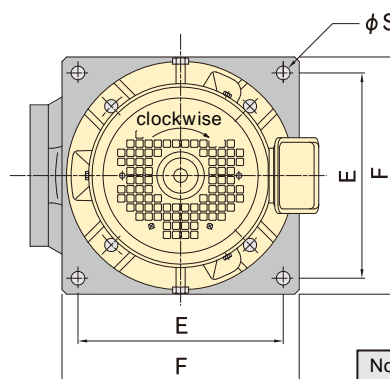
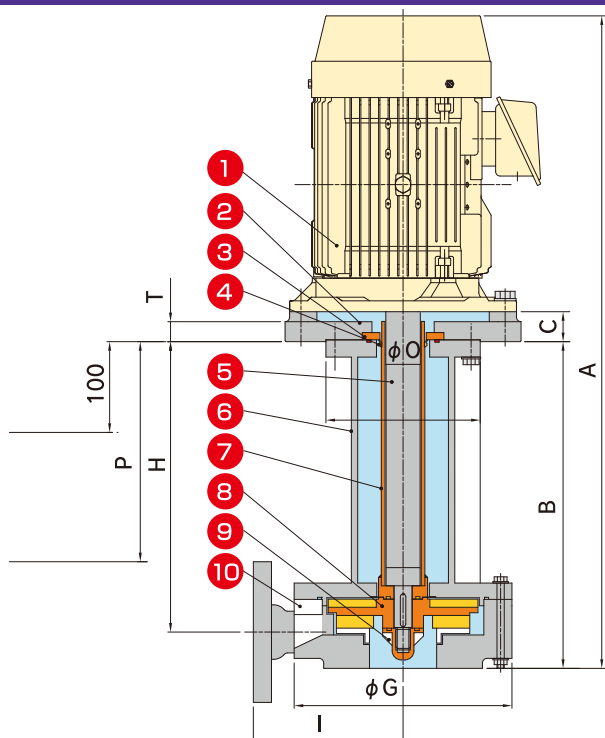
- PVC construction.
- High efficiency-low operating cost, leekfree operation and easy maintenance.
- Excellent chemical resistance.
- No seals and bearings in pump head to wear out.

### Typical applications

- Chemical or water recirculation.
- Fume scrubbers / waste treatment.
- Various plating solutions recirculation
- PCB Plating solutions • Wet processing • Deliver Acids



### Construction



| No. | Part name    | Material |
|-----|--------------|----------|
| 1   | Motor        | —        |
| 2   | Base         | HT-PVC   |
| 3   | counter face | Carbon   |
| 4   | V-Ring       | NBR      |
| 5   | Shaft        | SUS304   |
| 6   | Body         | PVC      |
| 7   | Shaft sleeve | HT-PVC   |
| 8   | Impeller     | HT-PVC   |
| 9   | Impeller nut | GFR-PP   |
| 10  | Casing       | PVC      |

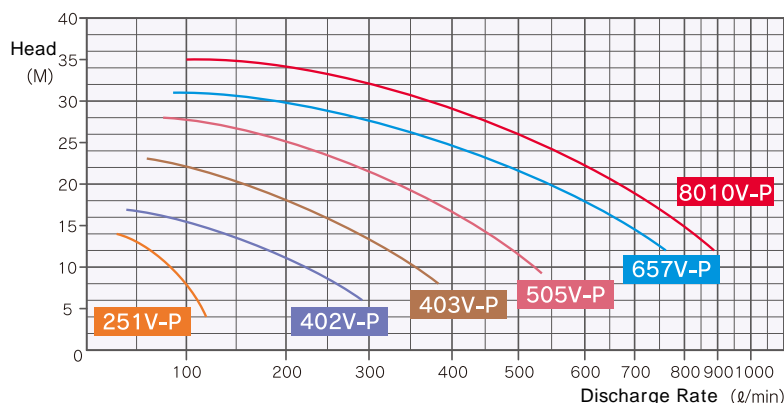
### Dimensions list

| MODEL       | INLET / OUTLET | Motor <sub>kW</sub> | A   | B   | C  | E   | F   | $\phi$ G | H   | I   | $\phi$ O | P   | $\phi$ S | T  |
|-------------|----------------|---------------------|-----|-----|----|-----|-----|----------|-----|-----|----------|-----|----------|----|
| TEK-251V-P  | 40A/25A        | 0.75                | 591 | 311 | 24 | 205 | 240 | 190      | 270 | 135 | 140      | 220 | 15       | 24 |
| TEK-402V-P  | 50A/40A        | 1.5                 | 678 | 355 | 33 | 225 | 260 | 240      | 320 | 165 | 170      | 250 | 15       | 22 |
| TEK-403V-P  | 50A/40A        | 2.2                 | 678 | 355 | 33 | 225 | 260 | 240      | 320 | 165 | 170      | 250 | 15       | 22 |
| TEK-505V-P  | 65A/50A        | 3.7                 | 763 | 360 | 33 | 225 | 260 | 240      | 320 | 165 | 170      | 250 | 15       | 22 |
| TEK-657V-P  | 80A/65A        | 5.5                 | 857 | 420 | 38 | 270 | 310 | 267      | 380 | 185 | 210      | 300 | 15       | 26 |
| TEK-8010V-P | 100A/80A       | 7.5                 | 972 | 550 | 23 | 325 | 360 | 295      | 507 | 220 | 250      | 410 | 15       | 14 |

• Please note that structure and dimension may change without prior notice • When designing, request drawing and reconfirm

### Standard Specifications 50Hz/60Hz

| MODEL       | Motor kW | Head M | Dis. Rate L/min |
|-------------|----------|--------|-----------------|
| TEK-251V-P  | 0.75     | 10     | 75              |
| TEK-402V-P  | 1.5      | 12     | 170             |
| TEK-403V-P  | 2.2      | 14     | 275             |
| TEK-505V-P  | 3.7      | 20     | 330             |
| TEK-657V-P  | 5.5      | 22     | 470             |
| TEK-8010V-P | 7.5      | 24     | 550             |



\*Performance based on water @ 70 F (21 °C). Fluids with specific gravity other than 1.0 should be reviewed by the factory.

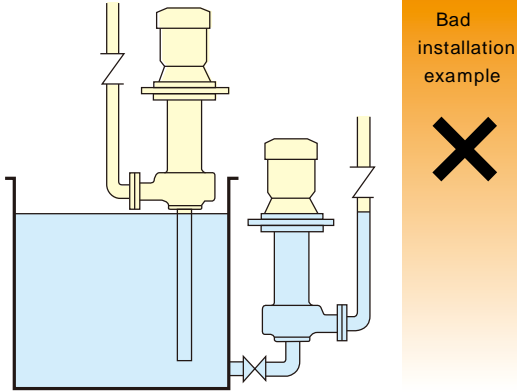
# TEK-V-U

Ultra High Molecular Weight Polyethylene

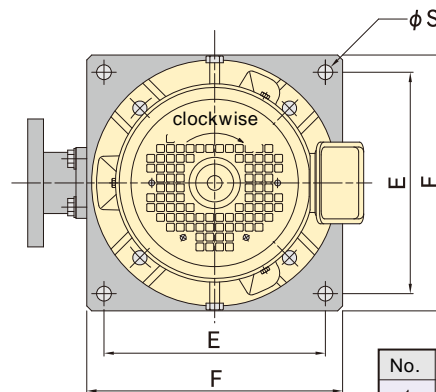
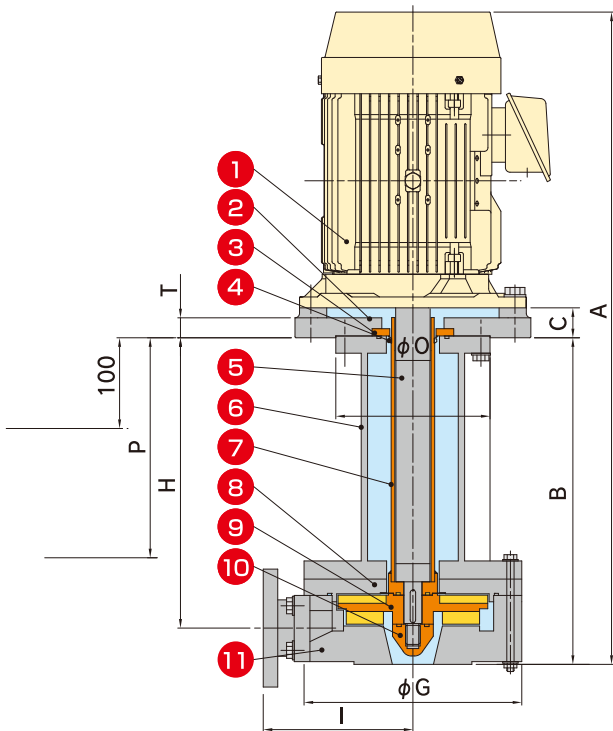
- UPE construction.
- Superior in wear resistance
- High efficiency-low operating cost, leekfree operation and easy maintenance.
- No seals and bearings in pump head to wear out.

## Typical applications

- Chemical or water recirculation.
- Waste treatment.
- PCB Plating solutions
- Wet processing
- Polishing machine
- Jet scrubbing



## Construction



| No. | Part name    | Material |
|-----|--------------|----------|
| 1   | Motor        | —        |
| 2   | Base         | HT-PVC   |
| 3   | counter face | Carbon   |
| 4   | V-Ring       | NBR      |
| 5   | Shaft        | SUS304   |
| 6   | Body         | PVC      |
| 7   | Shaft sleeve | HT-PVC   |
| 8   | Back flange  | UPE      |
| 9   | Impeller     | UPE      |
| 10  | Impeller nut | UPE      |
| 11  | Casing       | UPE      |

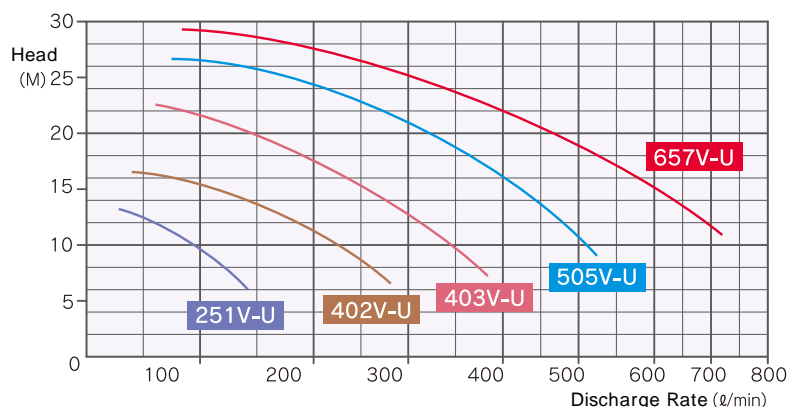
## Dimensions list

| MODEL      | INLET / OUTLET | Motor kW | A   | B   | C  | E   | F   | $\phi$ G | H   | I   | $\phi$ O | P   | $\phi$ S | T  |
|------------|----------------|----------|-----|-----|----|-----|-----|----------|-----|-----|----------|-----|----------|----|
| TEK-251V-U | 40A/25A        | 0.75     | 589 | 309 | 24 | 205 | 240 | 195      | 280 | 155 | 140      | 205 | 15       | 24 |
| TEK-402V-U | 40A/40A        | 1.5      | 668 | 345 | 33 | 225 | 260 | 215      | 316 | 165 | 170      | 240 | 15       | 22 |
| TEK-403V-U | 50A/40A        | 2.2      | 673 | 350 | 33 | 225 | 260 | 235      | 315 | 175 | 170      | 240 | 15       | 22 |
| TEK-505V-U | 50A/50A        | 3.7      | 763 | 360 | 33 | 225 | 260 | 250      | 320 | 190 | 170      | 240 | 15       | 22 |
| TEK-657V-U | 80A/65A        | 5.5      | 867 | 430 | 38 | 270 | 310 | 300      | 380 | 225 | 210      | 275 | 15       | 26 |

• Please note that structure and dimension may change without prior notice • When designing, request drawing and reconfirm

## Standard Specifications 50Hz/60Hz

| MODEL      | Motor kW | Head M | Dis. Rate L/min |
|------------|----------|--------|-----------------|
| TEK-251V-U | 0.75     | 10     | 90              |
| TEK-402V-U | 1.5      | 12     | 165             |
| TEK-403V-U | 2.2      | 14     | 270             |
| TEK-505V-U | 3.7      | 16     | 400             |
| TEK-657V-U | 5.5      | 18     | 530             |



\*Performance based on water @ 70 °F (21 °C). Fluids with specific gravity other than 1.0 should be reviewed by the factory.



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