

# CIRCULATION PUMP

The UP, UPS series are single- and three-speed circulator pumps especially designed for commercial heating systems



# UP CIRCULATION PUMP

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Product  
Info



# **CIRCULATION PUMP**

## **PRODUCT SERIES**



**COMMERCIAL HEATING**



**COMMERCIAL AIR CONDITIONING**



**COMMERCIAL HOT WATER  
RECIRCULATION**

# **UP**

## **CIRCULATION PUMP**

UP, UPS pumps are suitable for use in different areas such as pressurisation of water supply and geothermal systems and hot water circulation in urban flats, suburban villas, family houses, circulation of liquids in cooling systems and air conditioning systems, boilers for solar water supply.


**UP**

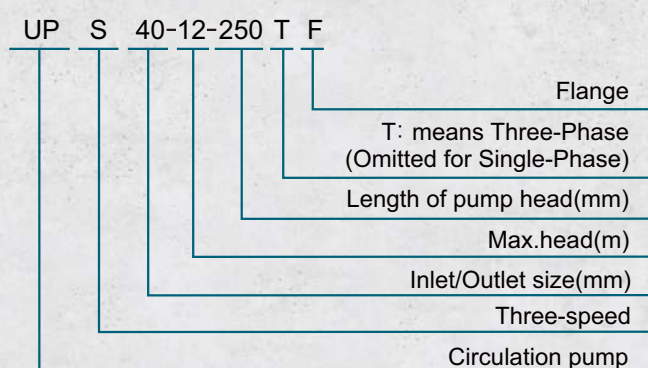
CIRCULATION PUMP

## CIRCULATION PUMP

UP, UPS series shielded circulation pumps can be connected by pipe thread, round flange, square flange, etc. This product adopts shielded structure motor, wet rotor technology, with low noise, no leakage, environmental protection and other characteristics. It is used in hot and cold water circulation systems.



### MODEL INSTRUCTION



### PUMP CONFIGURATION

- Motor Shaft: Ceramic shaft/stainless steel shaft;
- Impeller: Plastic/Stainless steel;
- Bearing: Ceramic/Sic;
- Motor: Copper wire motor.

### PUMP FEATURES

- Adopts shielded structure motor, wet rotor technology;
- Low noise, no leakage, environmental protection;
- UP series pumps can be connected by pipe thread, round flange, square flange.

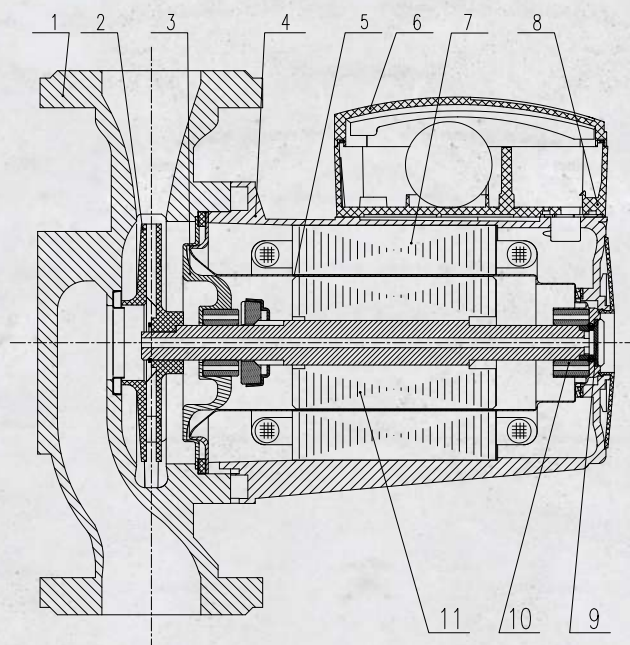
### PUMP USE PRECAUTIONS

- Operating conditions:
  - Ambient temperature: 0~40℃
  - Ambient humidity: <95%
  - Liquid temperature: 2℃~110℃
  - The ambient temperature should be lower than the liquid temperature to prevent condensation inside the motor.
- Requirements for use: no water operation shall not exceed 10s

## TECHNICAL SPECIFICATIONS

|             |                      |          |                  |                         |
|-------------|----------------------|----------|------------------|-------------------------|
| Max.Power   | Max.Flow             | Max.Head | Protection level | Maximum system pressure |
| Up to 1.3kW | 49 m <sup>3</sup> /h | 20 m     | IP 44            | 10 bar                  |

# INTRODUCTION: PRODUCT PARAMETERS



| POS. | COMPONENT             | CONSTRUCTION CHARACTERISTICS                                                                                                                                 |
|------|-----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1    | PUMP HEAD             | Cast iron surface electrophoresis treatment, exterior painting treatment, stainless steel pump body, can be selected according to actual working conditions. |
| 2    | IMPELLER              | Engineering plastic / Stainless steel                                                                                                                        |
| 3    | STAINLESS STEEL COVER | Stainless steel material                                                                                                                                     |
| 4    | BARREL                | Aluminum alloy                                                                                                                                               |
| 5    | SHIELD SLEEVE         | Stainless steel material                                                                                                                                     |
| 6    | JUNCTION BOX COVER    | Black plastic                                                                                                                                                |
| 7    | STATOR                | Full copper wire                                                                                                                                             |
| 8    | JUNCTION BOX SEAT     | Black plastic                                                                                                                                                |
| 9    | VENT SCREW PLUG       | Copper chrome plated                                                                                                                                         |
| 10   | BEARING               | Ceramic                                                                                                                                                      |
| 11   | ROTOR                 | Ceramic/2Cr13                                                                                                                                                |


**UP**

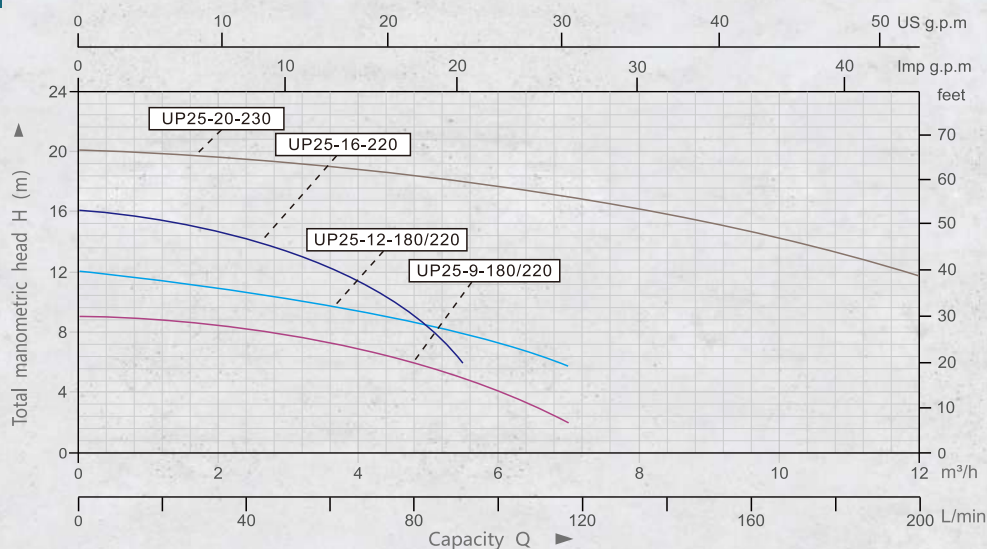
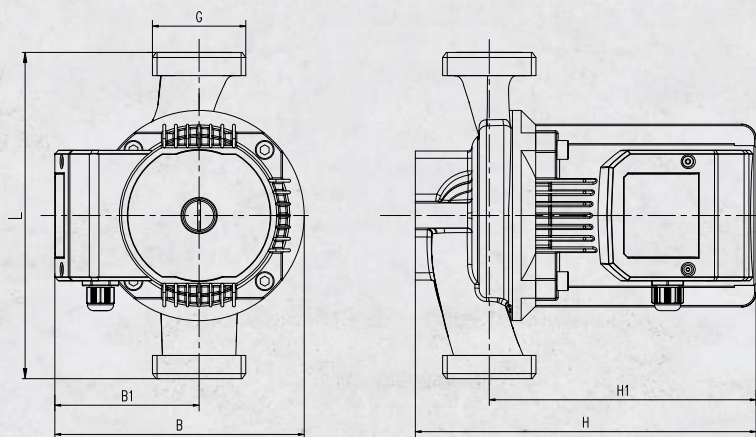
CIRCULATION PUMP

*Single speed  
Threaded connection*
**PERFORMANCE CURVE**


UP25-9/12/20



UP25-16


**PRODUCT DIMENSIONS**


| Model       | Voltage | Power | Max.head | Max.flow | Material of pump body |                 | Dimention(mm) |     |     |     |     |     | Outer box |          |          |             | Inter box |          |             |
|-------------|---------|-------|----------|----------|-----------------------|-----------------|---------------|-----|-----|-----|-----|-----|-----------|----------|----------|-------------|-----------|----------|-------------|
|             | V/Hz    | W     | m        | m³/h     | Cast iron             | Stainless steel | L             | B   | B1  | H   | H1  | G   | Pcs/Ctn   | G/W (kg) | N/W (kg) | L×W×H (mm)  | G/W (kg)  | N/W (kg) | L×W×H (mm)  |
| UP25-9-180  | 220/50  | 300   | 9        | 7        | ●                     | ●               | 180           | 167 | 99  | 209 | 165 | 1¼" | 4         | 26.1     | 25.6     | 255×200×250 | 6.8       | 6.4      | 255×200×235 |
| UP25-9-220  | 220/50  | 300   | 9        | 7        | ●                     | ●               | 220           | 167 | 99  | 209 | 165 | 1½" | 4         | 26.5     | 26       | 530×420×250 | 6.8       | 6.5      | 255×200×235 |
| UP25-12-180 | 220/50  | 500   | 12       | 7        | ●                     | ●               | 180           | 167 | 99  | 229 | 185 | 1¼" | 4         | 31.3     | 30.8     | 530×420×270 | 8.5       | 7.7      | 255×200×235 |
| UP25-12-220 | 220/50  | 500   | 12       | 7        | ●                     | ●               | 220           | 167 | 99  | 229 | 185 | 1½" | 4         | 31.7     | 31.2     | 530×420×270 | 8.6       | 7.8      | 255×200×235 |
| UP25-16-220 | 220/50  | 500   | 16       | 5.5      | ●                     |                 | 220           | 200 | /   | 245 | 200 | 1½" | /         | /        | /        | /           | 9.2       | 8.2      | 255×205×240 |
| UP25-20-230 | 220/50  | 1000  | 20       | 12       | ●                     |                 | 230           | 234 | 154 | 286 | 232 | 1½" | /         | /        | /        | /           | 14.7      | 13.4     | 270×270×340 |



UP

CIRCULATION PUMP

Single speed  
Threaded connection  
T - Three phase

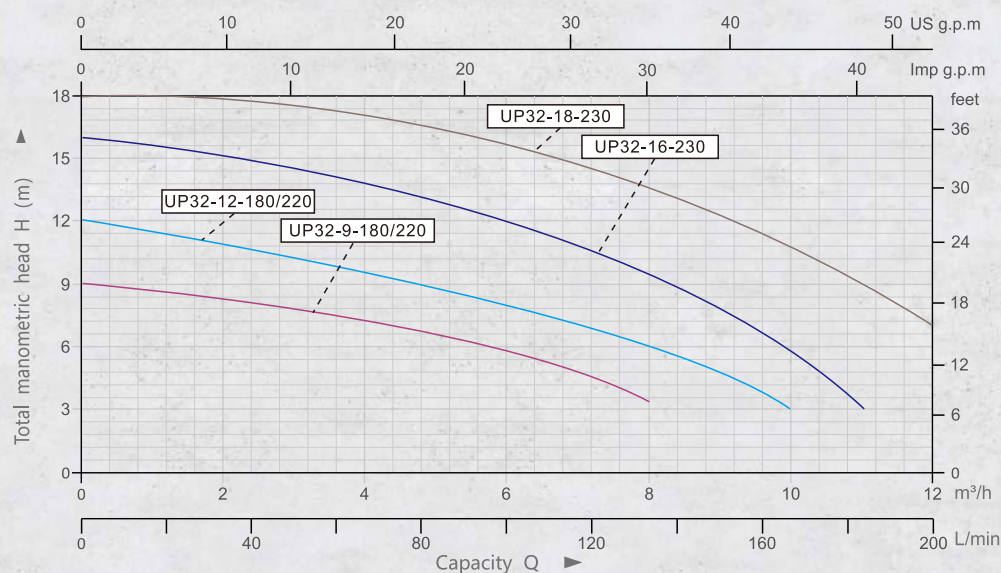
## PERFORMANCE CURVE



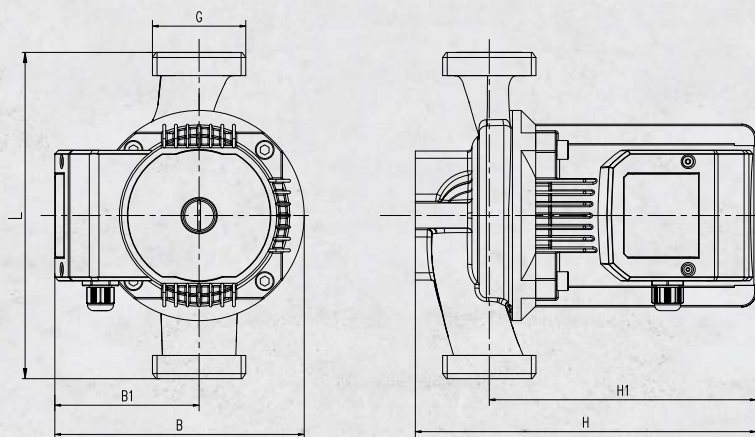
UP32-9/12



UP32-16/18



## PRODUCT DIMENSIONS



| Model          | Voltage | Power | Max.head | Max.flow | Material of pump body |                 | Dimention(mm) |     |    |     |     |    | Outer box |          |          |             | Inter box |          |             |
|----------------|---------|-------|----------|----------|-----------------------|-----------------|---------------|-----|----|-----|-----|----|-----------|----------|----------|-------------|-----------|----------|-------------|
|                | V/Hz    | W     | m        | m³/h     | Cast iron             | Stainless steel | L             | B   | B1 | H   | H1  | G  | Pcs/Ctn   | G/W (kg) | N/W (kg) | L×W×H (mm)  | G/W (kg)  | N/W (kg) | L×W×H (mm)  |
| UP32-9-180     | 220/50  | 300   | 9        | 8        | ●                     | ●               | 180           | 167 | 99 | 214 | 165 | 2" | 4         | 28.5     | 28       | 530×420×250 | 8.1       | 7        | 255×200×235 |
| UP32-9-220     | 220/50  | 300   | 9        | 8        | ●                     | ●               | 220           | 167 | 99 | 214 | 165 | 2" | 4         | 28.9     | 28.4     | 530×420×250 | 8.2       | 7.1      | 255×200×235 |
| UP32-12-180    | 220/50  | 500   | 12       | 10       | ●                     | ●               | 180           | 167 | 99 | 234 | 185 | 2" | 4         | 34.1     | 33.6     | 530×420×270 | 9.5       | 8.4      | 255×200×235 |
| UP32-12-220    | 220/50  | 500   | 12       | 10       | ●                     | ●               | 220           | 167 | 99 | 234 | 185 | 2" | 4         | 34.5     | 34       | 530×420×270 | 9.6       | 8.5      | 255×200×235 |
| UP32-16-230    | 220/50  | 700   | 16       | 11       | ●                     |                 | 230           | 215 | /  | 255 | 220 | 2" | /         | /        | /        | /           | 13        | 12       | 285×265×235 |
| UP32-18-230(T) | 220/50  | 1000  | 18       | 12       | ●                     |                 | 230           | 215 | /  | 255 | 220 | 2" | /         | /        | /        | /           | 14        | 13       | 285×265×235 |



**UP**

CIRCULATION PUMP

*Single speed  
F - Flange connection  
T - Three phase*

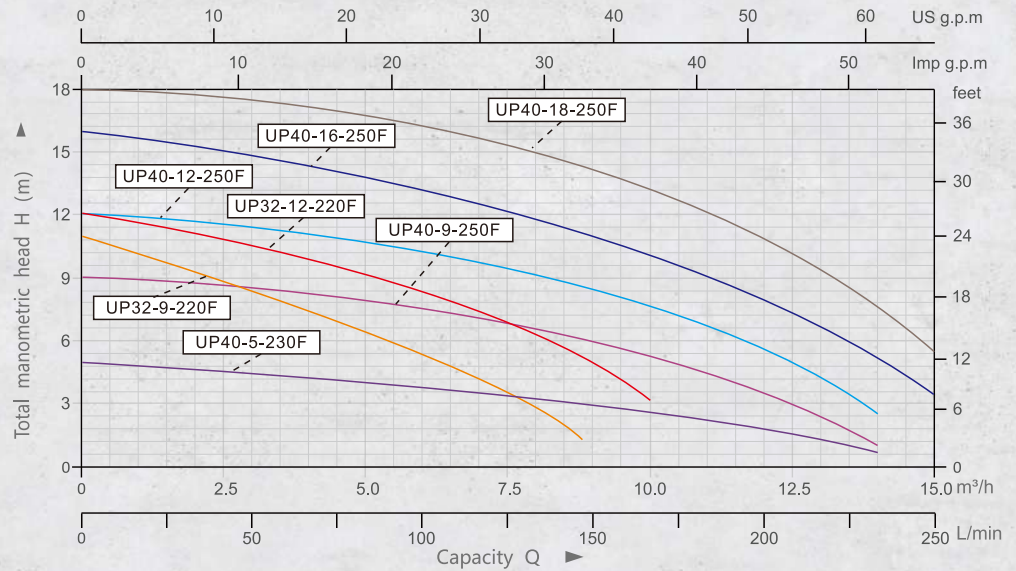
## PERFORMANCE CURVE



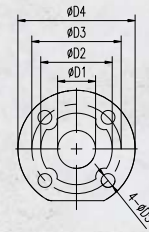
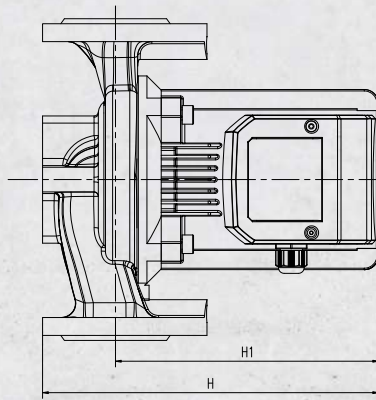
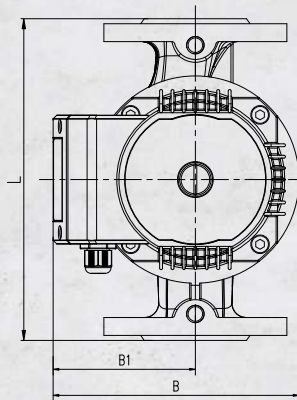
UP32



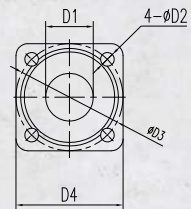
UP40



## PRODUCT DIMENSIONS



UP40



UP32

| Model           | Voltage             |                    | Power | Max.head | Max.flow | Material of pump body | Dimention(mm) |     |    |     |     |    |      |     |     |    |      | Inter box |          |             |
|-----------------|---------------------|--------------------|-------|----------|----------|-----------------------|---------------|-----|----|-----|-----|----|------|-----|-----|----|------|-----------|----------|-------------|
|                 | Single phase (V/Hz) | Three phase (V/Hz) |       |          |          |                       | L             | B   | B1 | H   | H1  | D1 | D2   | D3  | D4  | D5 | G    | G/W (kg)  | N/W (kg) | L.W.H (mm)  |
| UP32-9-220F     | 220/50              | /                  | 370   | 11       | 8.8      | ●                     | 220           | 167 | 99 | 234 | 185 | 40 | 11.5 | 90  | 90  | /  | DN32 | 10.9      | 9.3      | 530×420×270 |
| UP32-12-220F    | 220/50              | /                  | 500   | 12       | 10       | ●                     | 220           | 167 | 99 | 234 | 185 | 40 | 11.5 | 90  | 90  | /  | DN32 | 10.9      | 9.3      | 530×420×270 |
| UP40-5-230F     | 220/50              | /                  | 300   | 5        | 14       | ●                     | 230           | 167 | 99 | 250 | 189 | 40 | 100  | 130 | 150 | /  | DN40 | 12.2      | 9.5      | 275×400×285 |
| UP40-9-250(T)F  | 220/50              | 380/50             | 500   | 9        | 14       | ●                     | 250           | 200 | /  | 255 | 200 | 40 | 120  | 100 | 130 | 14 | DN40 | 15.5      | 14.5     | 275×210×285 |
| UP40-12-250(T)F | 220/50              | 380/50             | 700   | 12       | 14       | ●                     | 250           | 215 | /  | 265 | 210 | 40 | 120  | 100 | 130 | 14 | DN40 | 19        | 18       | 300×285×215 |
| UP40-16-250(T)F | 220/50              | 380/50             | 1000  | 16       | 15       | ●                     | 250           | 215 | /  | 265 | 210 | 40 | 120  | 100 | 130 | 14 | DN40 | 19        | 18       | 300×285×215 |
| UP40-18-250(T)F | 220/50              | 380/50             | 1300  | 18       | 15       | ●                     | 250           | 215 | /  | 280 | 220 | 40 | 120  | 100 | 130 | 14 | DN40 | 19.5      | 18.5     | 300×285×215 |


**UP**

CIRCULATION PUMP

*Single speed*  
*F - Flange connection*  
*T - Three phase*

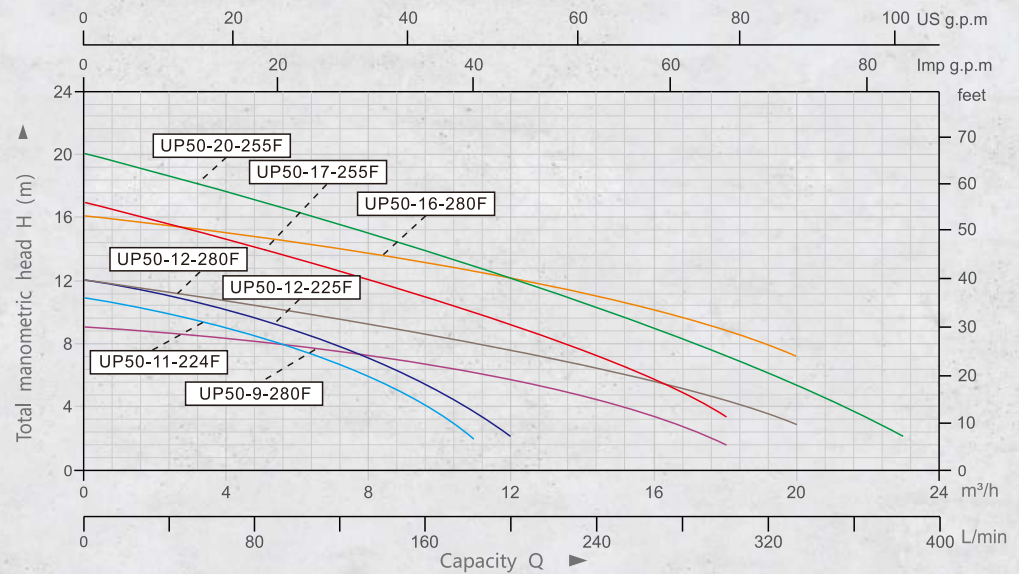
## PERFORMANCE CURVE



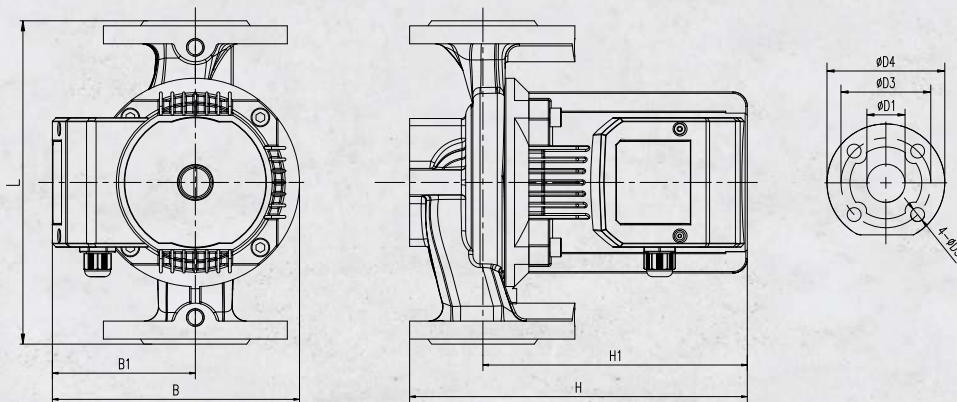
UP50-11/12/17/20



UP50-9/12/16



## PRODUCT DIMENSIONS



| Model           | Voltage             |                    | Power | Max.head | Max.flow | Material of pump body | Dimention(mm) |     |     |     |     |      |     |     |    |      | Inter box |          |             |
|-----------------|---------------------|--------------------|-------|----------|----------|-----------------------|---------------|-----|-----|-----|-----|------|-----|-----|----|------|-----------|----------|-------------|
|                 | Single phase (V/Hz) | Three phase (V/Hz) |       |          |          |                       | L             | B   | B1  | H   | H1  | D1   | D3  | D4  | D5 | G    | G/W (kg)  | N/W (kg) | L.W.H (mm)  |
| UP50-9-280(T)F  | 220/50              | 380/50             | 700   | 9        | 18       | ●                     | 280           | 215 | 120 | 280 | 220 | 50   | 110 | 140 | 14 | DN50 | 20        | 19       | 310×305×215 |
| UP50-11-224F    | 220/50              | /                  | 370   | 11       | 10       | ●                     | 224           | 163 | /   | 253 | /   | 57.2 | 93  | 93  | 12 | DN50 | 19.3      | 11       | 270×210×285 |
| UP50-12-225F    | 220/50              | /                  | 550   | 12       | 12       | ●                     | 225           | 160 | /   | 253 | /   | 57.2 | 125 | 165 | /  | DN50 | 19.3      | 14       | 270×210×285 |
| UP50-12-280(T)F | 220/50              | 380/50             | 1000  | 12       | 20       | ●                     | 280           | 215 | 120 | 280 | 220 | 50   | 110 | 140 | 14 | DN50 | 21        | 20       | 310×305×215 |
| UP50-16-280(T)F | 220/50              | 380/50             | 1300  | 16       | 20       | ●                     | 280           | 215 | 120 | 280 | 220 | 50   | 110 | 140 | 14 | DN50 | 22        | 21       | 310×305×215 |
| UP50-17-255F    | 220/50              | /                  | 750   | 17       | 18       | ●                     | 255           | 219 | /   | 314 | /   | 57.2 | 125 | 165 | /  | DN50 | 29.3      | 23       | 300×260×350 |
| UP50-20-255F    | 220/50              | /                  | 1100  | 20       | 23       | ●                     | 255           | 219 | /   | 314 | /   | 57.2 | 125 | 165 | /  | DN50 | 31.1      | 25       | 300×260×350 |


**UP**

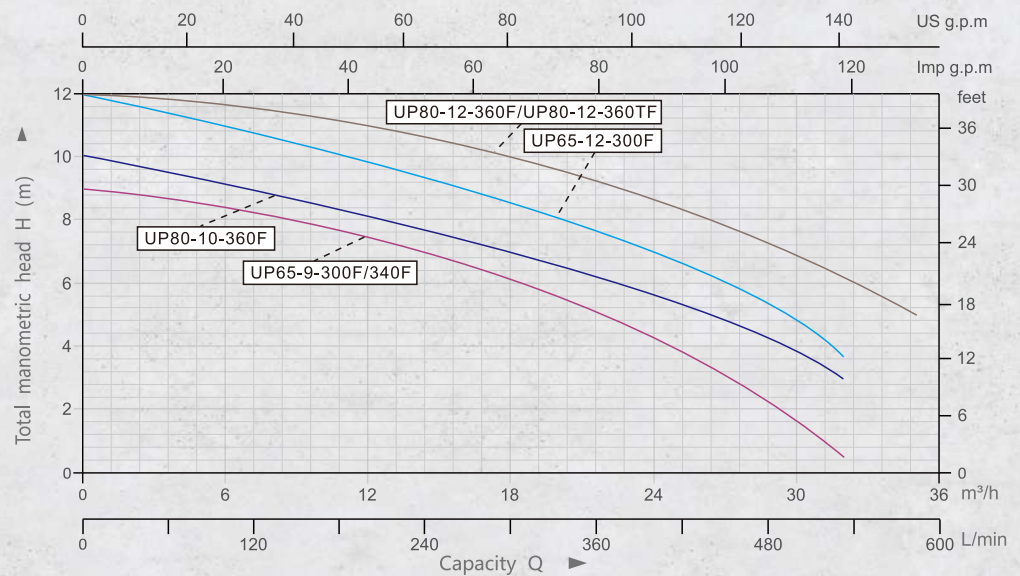
CIRCULATION PUMP

*Single speed*  
*F - Flange connection*  
*T - Three phase*

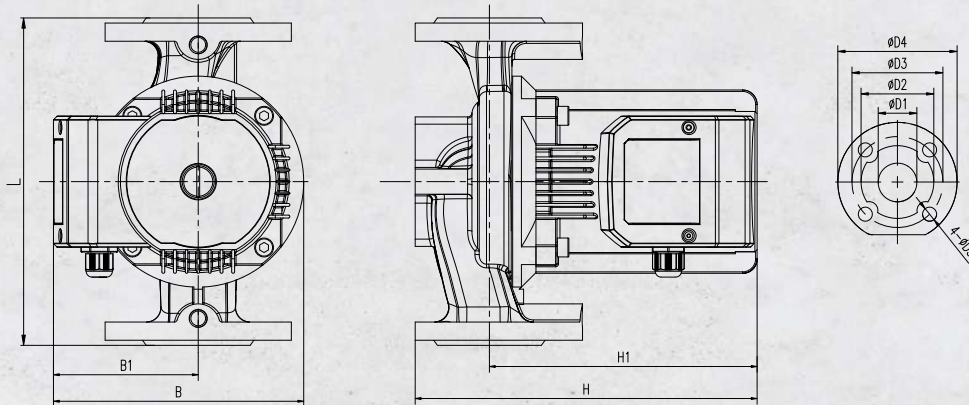
## PERFORMANCE CURVE



UP80-10/12


UP65-9/12  
UP80-12


## PRODUCT DIMENSIONS



| Model           | Voltage             |                    | Power | Max.head | Max.flow | Material of pump body | Dimention(mm) |     |     |     |     |    |     |     |     |      |      | Inter box |          |             |
|-----------------|---------------------|--------------------|-------|----------|----------|-----------------------|---------------|-----|-----|-----|-----|----|-----|-----|-----|------|------|-----------|----------|-------------|
|                 | Single phase (V/Hz) | Three phase (V/Hz) |       |          |          |                       | L             | B   | B1  | H   | H1  | D1 | D2  | D3  | D4  | D5   | G    | G/W (kg)  | N/W (kg) | L.W.H (mm)  |
| UP65-9-300(T)F  | 220/50              | 380/50             | 1000  | 9        | 30       | ●                     | 300           | 215 | /   | 290 | 220 | 65 | /   | 130 | 160 | 14   | DN65 | 24        | 23       | 325×325×325 |
| UP65-9-340(T)F  | 220/50              | 380/50             | 1000  | 9        | 30       | ●                     | 340           | 215 | /   | 300 | 220 | 65 | 118 | 145 | 185 | 18   | DN65 | 34        | 33       | 370×335×245 |
| UP65-12-300(T)F | 220/50              | 380/50             | 1300  | 12       | 30       | ●                     | 300           | 215 | /   | 290 | 220 | 65 | /   | 130 | 160 | 14   | DN65 | 25        | 24       | 325×325×325 |
| UP80-10-360F    | 220/50              | /                  | 1000  | 10       | 32       | ●                     | 360           | 247 | 154 | 320 | 232 | 80 | 140 | 150 | 200 | /    | DN80 | 25        | 20       | 380×360×375 |
| UP80-12-360F    | 220/50              | /                  | 1300  | 12       | 35       | ●                     | 360           | 247 | 154 | 345 | 257 | 80 | 140 | 150 | 200 | /    | DN80 | 29.4      | 24.4     | 380×360×375 |
| UP80-12-360TF   | /                   | 380/50             | 1300  | 12       | 30       | ●                     | 360           | 215 | /   | 310 | 220 | 80 | 132 | 160 | 200 | 8-18 | DN80 | 37.5      | 36.5     | 390×345×250 |

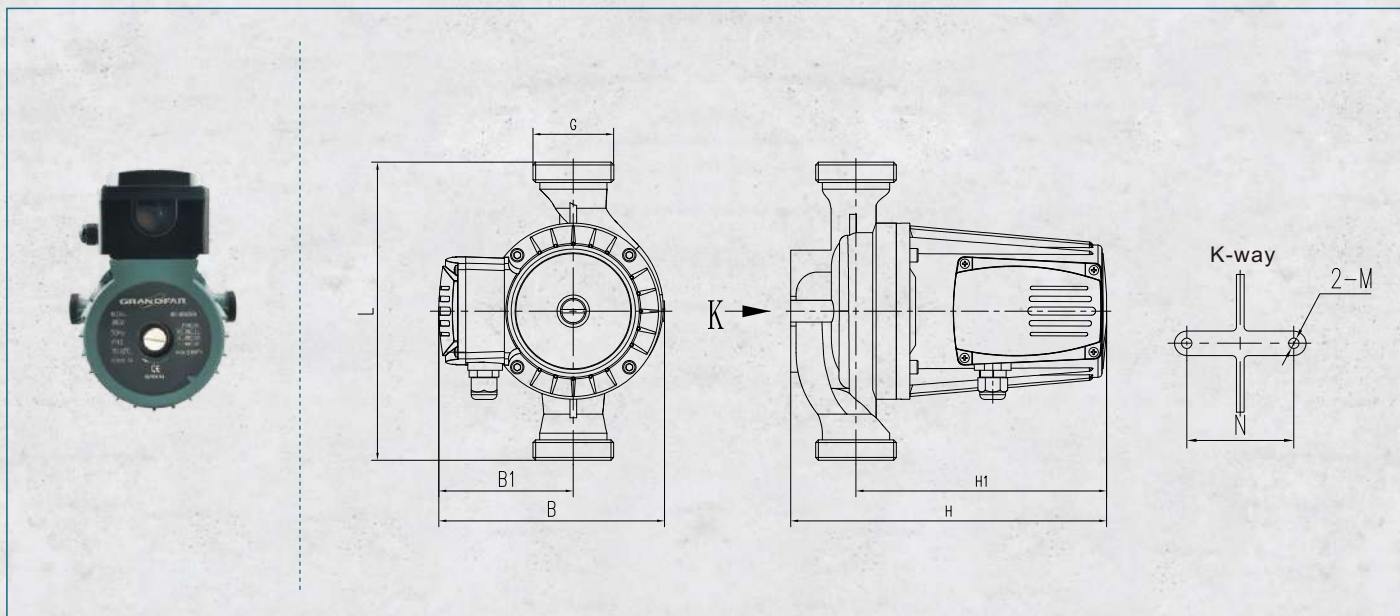


# UPS

CIRCULATION PUMP

**Three speed**  
**T - Three phase**

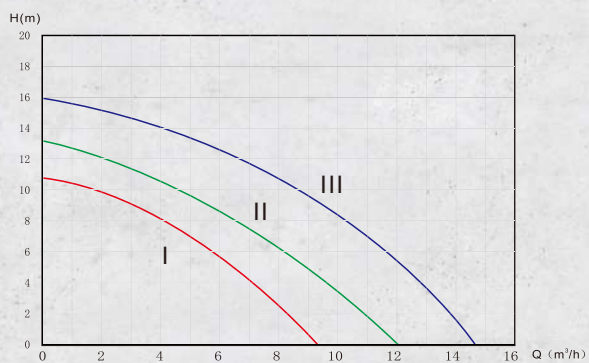
## PRODUCT DIMENSIONS



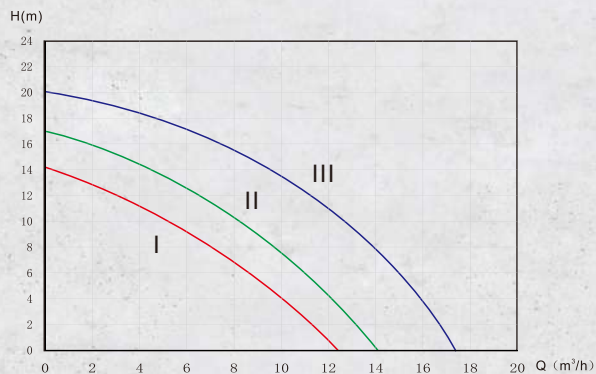
| Model         | Voltage  | Power        | Max.flow    | Max.head | Material of pump body | Dimention(mm) |     |     |     |     |          |     |    | Inter box |          |             |
|---------------|----------|--------------|-------------|----------|-----------------------|---------------|-----|-----|-----|-----|----------|-----|----|-----------|----------|-------------|
|               | V/Hz     | W            | m³/h        | m        | Cast iron             | L             | B   | B1  | H   | H1  | G        | M   | N  | G/W (kg)  | N/W (kg) | L·W·H (mm)  |
| UPS25-16-230T | 3~380/50 | 700/450/400  | 14.5/12/9.2 | 16/13/11 | ●                     | 230           | 234 | 154 | 286 | 232 | 1.25"/1" | M10 | 80 | 13.6      | 12.5     | 260x260x330 |
| UPS25-20-230T | 3~380/50 | 1000/700/600 | 17/14/12.5  | 20/17/14 | ●                     | 230           | 234 | 154 | 286 | 232 | 1.25"/1" | M10 | 80 | 14.7      | 13.4     | 260x260x330 |

## PERFORMANCE CURVE

**UPS25-16-230T**



**UPS25-20-230T**



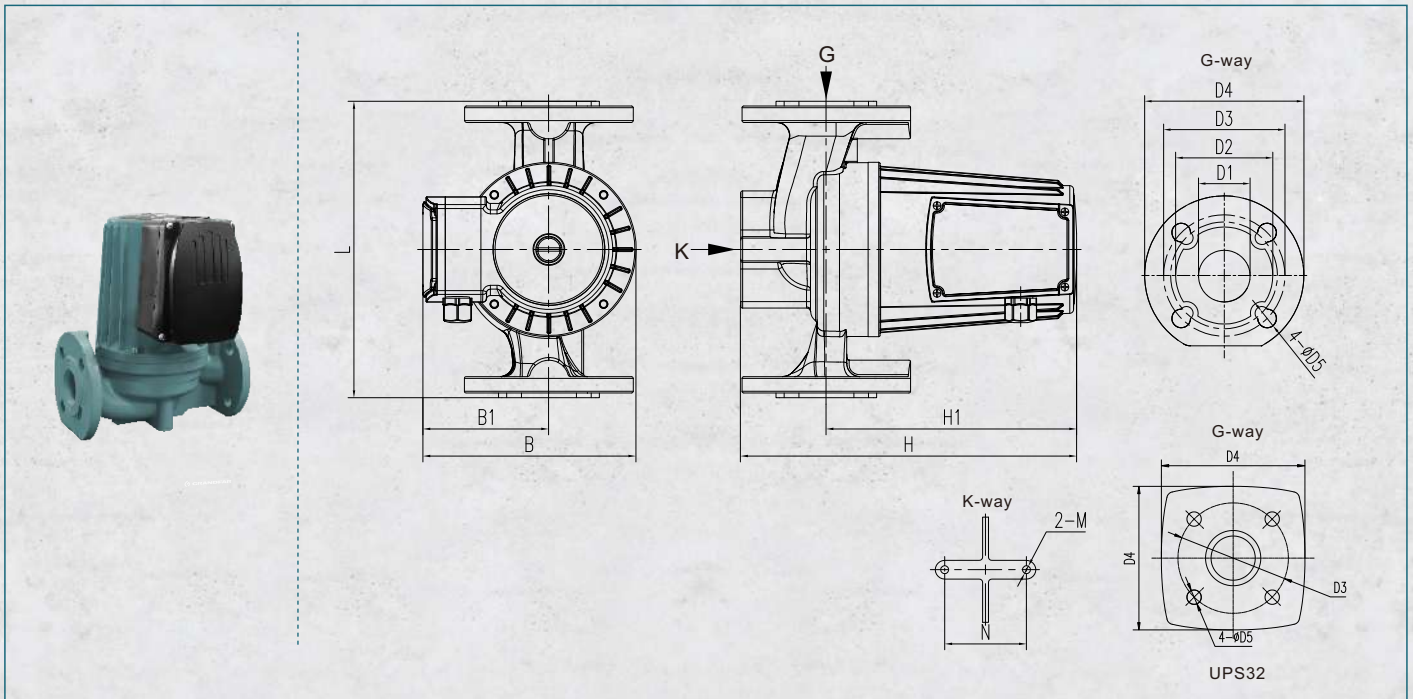


# UPS

CIRCULATION PUMP

**Three speed**  
**F - Flange connection**  
**T - Three phase**

## PRODUCT DIMENSIONS



| Model          | Voltage  | Power         | Max.flow     | Max.head       | Material of pump body | Dimention(mm) |     |     |     |     |    |         |     |           |      |     |    |          | Inter box |             |  |
|----------------|----------|---------------|--------------|----------------|-----------------------|---------------|-----|-----|-----|-----|----|---------|-----|-----------|------|-----|----|----------|-----------|-------------|--|
|                | V/Hz     | W             | m³/h         | m              | Cast iron             | L             | B   | B1  | H   | H1  | D1 | D3      | D4  | D5        | G    | M   | N  | G/W (kg) | N/W (kg)  | L×W×H (mm)  |  |
| UPS32-5-200F   | 1~220/50 | 145/135/95    | 4/2.5/1.6    | 5.2/4.1/2.6    | ●                     | 200           | 150 | /   | 185 | 130 | 32 | 90      | 90  | 11.5      | DN32 | /   | /  | 6.8      | 5.2       | 225x175x210 |  |
| UPS32-8-200F   | 1~220/50 | 245/190/135   | 8/5.2/3.5    | 8/7/5          | ●                     | 200           | 150 | /   | 185 | 130 | 32 | 90      | 90  | 11.5      | DN32 | /   | /  | 7.4      | 5.8       | 225x175x210 |  |
| UPS40-3-215F   | 1~220/50 | 145/120/100   | 8/5.5/4.5    | 3/2.5/1.5      | ●                     | 215           | 150 | /   | 185 | 120 | 40 | 100     | 130 | 13.5      | DN40 | /   | /  | 7.6      | 7.2       | 240x170x215 |  |
| UPS40-12-250TF | 3~380/50 | 700/450/400   | 14/11.2/8    | 14.5/12.5/11   | ●                     | 250           | 234 | 154 | 297 | 232 | 40 | 100/110 | 150 | 13.5/17.5 | DN40 | M10 | 80 | 18.4     | 15.3      | 260x260x330 |  |
| UPS40-16-250TF | 3~380/50 | 1000/700/600  | 17/14/12     | 16.2/15.5/14.5 | ●                     | 250           | 234 | 154 | 297 | 232 | 40 | 100/110 | 150 | 13.5/17.5 | DN40 | M10 | 80 | 20       | 16.9      | 260x260x330 |  |
| UPS50-12-280TF | 3~380/50 | 1000/700/600  | 24/18.5/13   | 13.2/11/10     | ●                     | 280           | 242 | 154 | 304 | 72  | 50 | 110/125 | 165 | 13.5/17.5 | DN50 | M10 | 90 | 22.4     | 17.5      | 393x338x293 |  |
| UPS50-16-280TF | 3~380/50 | 1300/1000/900 | 28/26/24     | 16.5/16/15     | ●                     | 280           | 242 | 154 | 329 | 72  | 50 | 110/125 | 165 | 13.5/17.5 | DN50 | M10 | 90 | 24.4     | 19.6      | 393x338x293 |  |
| UPS50-20-280TF | 3~380/50 | 1300/1000/900 | 24.5/22/18.5 | 20/17/16       | ●                     | 280           | 242 | 154 | 329 | 72  | 50 | 110/125 | 165 | 13.5/17.5 | DN50 | M10 | 90 | 24.6     | 19.8      | 393x338x293 |  |
| UPS65-5-280TF  | 3~380/50 | 700/450/400   | 32/28/25.5   | 6.2/6/4.5      | ●                     | 280           | 242 | 154 | 310 | 232 | 65 | 130/145 | 180 | 13.5/17.5 | DN65 | M10 | 90 | 21.5     | 18        | 393x338x293 |  |
| UPS65-8-280TF  | 3~380/50 | 700/450/400   | 35/28/25     | 8.2/6.7/5.5    | ●                     | 280           | 242 | 154 | 310 | 232 | 65 | 130/145 | 180 | 13.5/17.5 | DN65 | M10 | 90 | 21.7     | 18.2      | 393x338x293 |  |
| UPS65-10-300TF | 3~380/50 | 1000/700/600  | 38/34/30     | 10.2/8.8/7     | ●                     | 300           | 242 | 154 | 310 | 232 | 65 | 130/145 | 185 | 13.5/17.5 | DN65 | M10 | 90 | 24.7     | 19.7      | 393x338x293 |  |
| UPS65-12-300TF | 3~380/50 | 1300/1000/900 | 49/44/39     | 13.7/11/9.5    | ●                     | 300           | 242 | 154 | 335 | 257 | 65 | 130/145 | 185 | 13.5/17.5 | DN65 | M10 | 90 | 26.5     | 21.5      | 393x338x293 |  |
| UPS80-10-300TF | 3~380/50 | 1000/700/600  | 35/30/27     | 10/8/7         | ●                     | 300           | 247 | 154 | 320 | 232 | 80 | 150     | 200 | /         | DN80 | M10 | 90 | 25       | 20        | 380x275x350 |  |
| UPS80-12-300TF | 3~380/50 | 1300/1000/900 | 41.23/35/33  | 12.2/10/9.3    | ●                     | 300           | 247 | 154 | 345 | 257 | 80 | 150     | 200 | /         | DN80 | M10 | 90 | 29.4     | 24.4      | 380x275x350 |  |

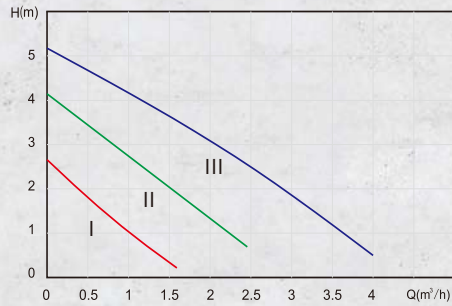


# UPS

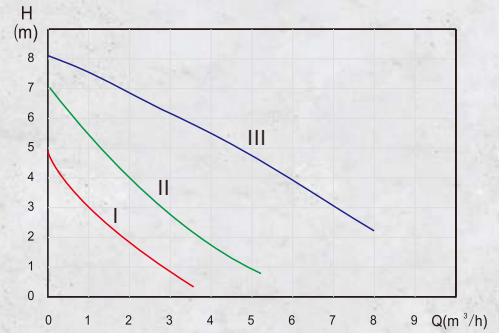
CIRCULATION PUMP

## PERFORMANCE CURVE

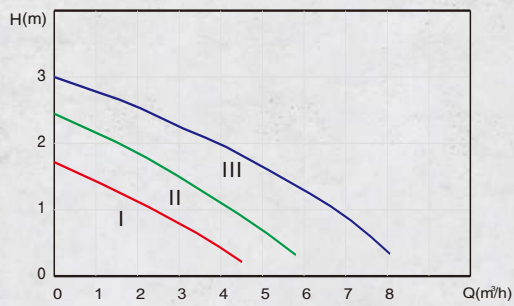
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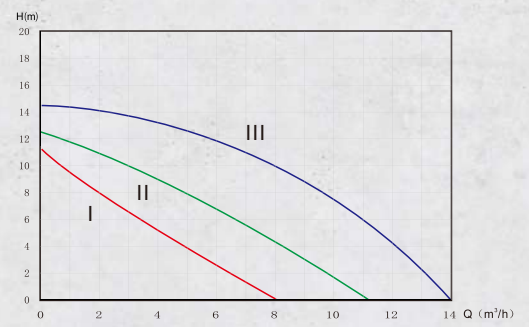
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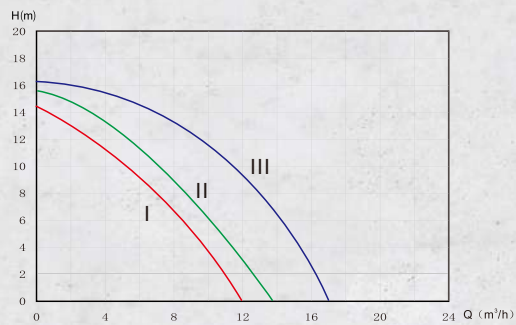
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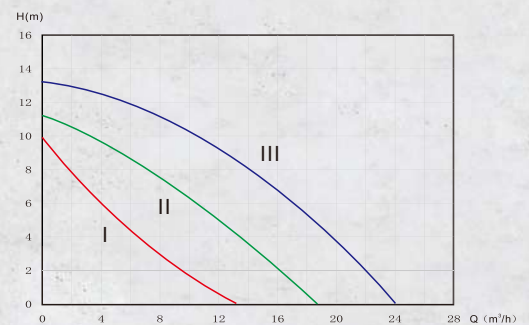
UPS40-12-250TF



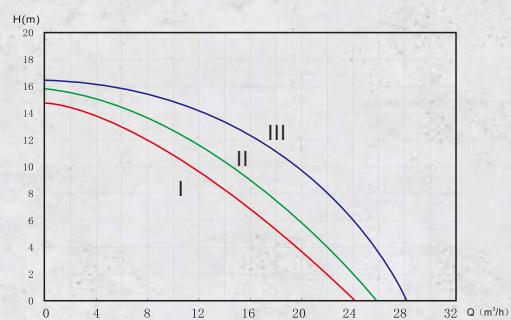
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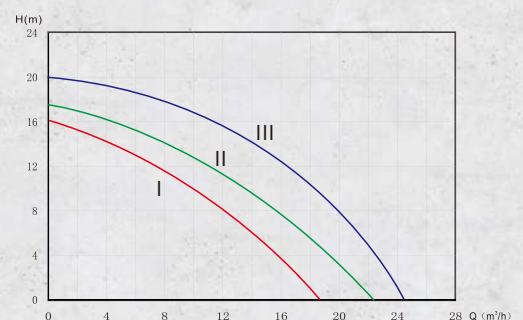
UPS50-12-280TF



UPS50-16-280TF



UPS50-20-280TF



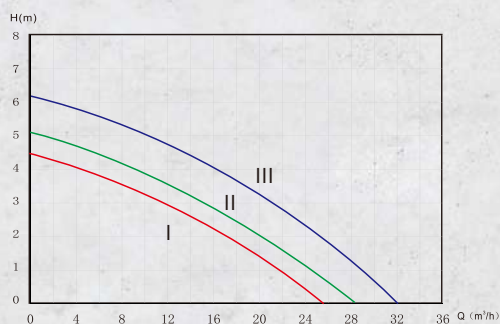


# UPS

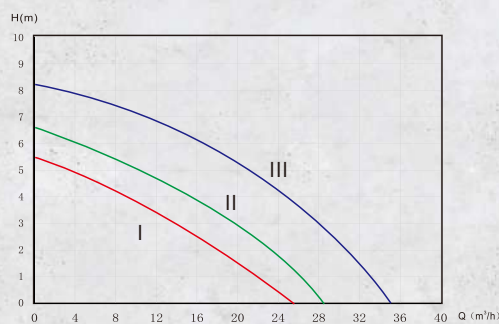
CIRCULATION PUMP

## PERFORMANCE CURVE

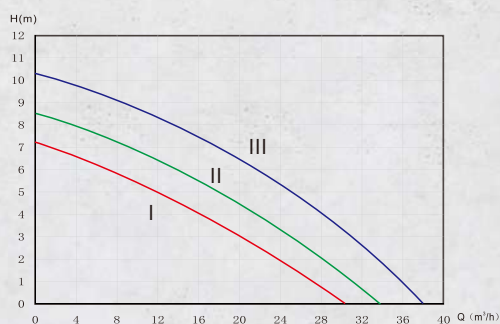
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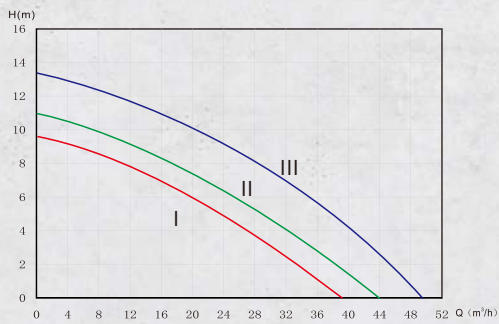
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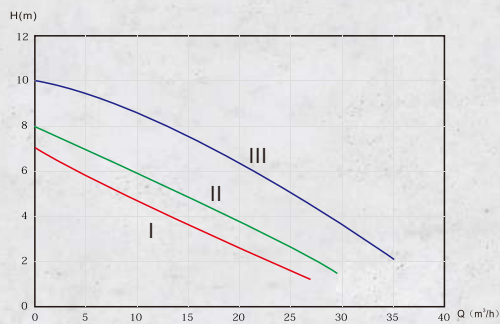
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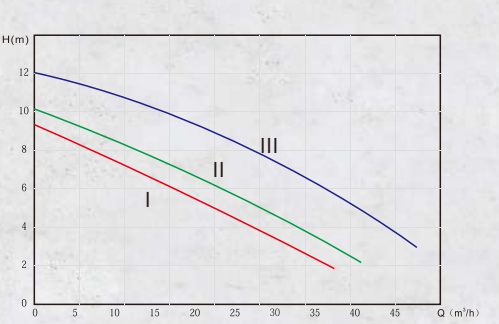
UPS65-12-300TF



UPS80-10-300TF



UPS80-12-300TF





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