

## VA

## WET ROTOR CIRCULATORS



Single body consisting of a cast iron hydraulic unit. Die-cast aluminium motor casing.

Technopolymer impeller.

Alumina driving shaft mounted on graphite brushing lubricated by the pumped liquid itself.

Stainless steel protective rotor sleeve, stator sleeve and closing flange.

Ceramic thrust bearing, E.P.D.M. O-rings and brass air outlet cap.

The two-pole asynchronous motor with wet rotor is self-protected for resistance.

No overload protection required.

Three-speed operation.

**Operating range** from 0.5 to 3.6 m<sup>3</sup>/h with head up to 6 metres.

**Liquid temperature range** from -10°C to +110°C.

**Pumped liquid characteristics** clean, free from solids and mineral oils, not viscous, chemically neutral, close to the characteristics of water (max 30% glycol).

**Maximum working pressure** 10 bar (1000 kPa).

**Protection degree** corresponding to IP44.

**Insulation class** F.

**Cable grommet** PG 11.

**Installation** with motor axis horizontal. Only for extra EU markets. Please contact our sales network for more information.

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**EXTRA EU**  
MARKETS

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| MODEL          | CODE      | CENTRE<br>DISTANCE<br>mm | PUMP<br>COUPLINGS | ELECTRICAL DATA  |                |         | ENERGY<br>CLASS | HYDRAULIC DATA |      |      |      |      |      |      |      | WEIGHT<br>KG | Q.TY<br>x<br>PALLET |
|----------------|-----------|--------------------------|-------------------|------------------|----------------|---------|-----------------|----------------|------|------|------|------|------|------|------|--------------|---------------------|
|                |           |                          |                   | VOLTAGE<br>50 Hz | P1<br>MAX<br>W | In<br>A |                 | Q=m³h          | 0    | 0.6  | 1.2  | 1.8  | 2.4  | 3    | 4.2  |              |                     |
|                |           |                          |                   |                  |                |         |                 |                |      |      |      |      |      |      |      |              |                     |
| VA 25/130      | 60182197H | 130                      | 1 1/2" G          | 1x230 V          | 43             | 0.19    | B               | H (m)          | 2.71 | 2.45 | 2.15 | 1.75 | 1.2  | 0.6  |      | 2.7          | 240                 |
| VA 25/180      | 60182196H | 180                      | 1 1/2" G          | 1x230 V          | 43             | 0.19    | B               |                | 2.71 | 2.45 | 2.15 | 1.75 | 1.2  | 0.6  |      | 2.8          | 180                 |
| VA 25/180 X    | 60182195H | 180                      | 2" G              | 1x230 V          | 43             | 0.19    | B               |                | 2.71 | 2.45 | 2.15 | 1.75 | 1.2  | 0.6  |      | 2.9          | 180                 |
| VA 35/130      | 60182186H | 130                      | 1 1/2" G          | 1x230 V          | 56             | 0.25    | B               |                | 4.3  | 3.9  | 3.4  | 2.8  | 2.15 | 1.4  |      | 2.7          | 240                 |
| VA 35/130 1/2" | 60182184H | 130                      | 1" G              | 1x230 V          | 56             | 0.25    | B               |                | 4.3  | 3.9  | 3.4  | 2.8  | 2.15 | 1.4  |      | 2.6          | 240                 |
| VA 35/180      | 60182183H | 180                      | 1 1/2" G          | 1x230 V          | 56             | 0.25    | B               |                | 4.3  | 3.9  | 3.4  | 2.8  | 2.15 | 1.4  |      | 2.8          | 180                 |
| VA 35/180 X    | 60182180H | 180                      | 2" G              | 1x230 V          | 56             | 0.25    | B               |                | 4.3  | 3.9  | 3.4  | 2.8  | 2.15 | 1.4  |      | 2.9          | 180                 |
| VA 55/130      | 60182179H | 130                      | 1 1/2" G          | 1x230 V          | 70             | 0.3     | B               |                | 5.4  | 4.7  | 4.5  | 3.3  | 2.6  | 1.75 | 0.85 | 2.7          | 240                 |
| VA 55/130 1/2" | 60182175H | 130                      | 1" G              | 1x230 V          | 70             | 0.3     | B               |                | 5.4  | 4.7  | 4.5  | 3.3  | 2.6  | 1.75 | 0.85 | 2.6          | 240                 |
| VA 55/180      | 60182171H | 180                      | 1 1/2" G          | 1x230 V          | 70             | 0.3     | B               |                | 5.4  | 4.7  | 4.5  | 3.3  | 2.6  | 1.75 | 0.85 | 2.8          | 180                 |
| VA 55/180 X    | 60182170H | 180                      | 2" G              | 1x230 V          | 70             | 0.3     | B               |                | 5.4  | 4.7  | 4.5  | 3.3  | 2.6  | 1.75 | 0.85 | 2.9          | 180                 |
| VA 65/130      | 60182169H | 130                      | 1 1/2" G          | 1x230 V          | 78             | 0.34    | C               |                | 6.3  | 5.8  | 5.3  | 4.3  | 3.4  | 2.4  |      | 2.7          | 240                 |
| VA 65/130 1/2" | 60182168H | 130                      | 1" G              | 1x230 V          | 78             | 0.34    | C               |                | 6.3  | 5.8  | 5.3  | 4.3  | 3.4  | 2.4  |      | 2.6          | 240                 |
| VA 65/180      | 60181676H | 180                      | 1 1/2" G          | 1x230 V          | 78             | 0.34    | C               |                | 6.3  | 5.8  | 5.3  | 4.3  | 3.4  | 2.4  |      | 2.7          | 180                 |
| VA 65/180 X    | 60182167H | 180                      | 2" G              | 1x230 V          | 78             | 0.34    | C               |                | 6.3  | 5.8  | 5.3  | 4.3  | 3.4  | 2.4  |      | 2.9          | 180                 |

## A, B, D

## WET ROTOR CIRCULATORS



DAB SERVICES

HEATING AND  
AIR CONDITIONING

ESYBOX LINE

CONTROL UNIT

WATER PRESSURIZATION

BOOSTER  
SETSEND SUCTION AND  
VERTICAL MULTISTAGE PUMPSDRAINAGE  
AND SEWAGEGROUNDWATER  
AND IRRIGATION

SWIMMING POOL PUMPS

FIRE FIGHTING



Pump body in cast iron and motor casing in die-cast aluminium. Technopolymer impeller and tempered stainless steel driving shaft mounted on graphite brushing lubricated by the pumped liquid itself.

Flanged vents, (threaded series A), provided with threaded connectors for controlling gauges.

Stainless steel protective rotor sleeve, stator sleeve and closing flange.

Ceramic thrust bearing, E.P.D.M. "O" rings and brass air outlet cap. The two-pole asynchronous motor with wet rotors designed for three-speed operation, single-phase version, for two-speed operation, for three-phase version.

Thermal overload protection incorporated in the single phase version.

In the twin version an automatic clapet type valve and blank flange are provided.

**Operating range** from 1 to 12 m<sup>3</sup>/h with head up to 11 metres.

**Liquid temperature range** from -10°C to +110°C.

**Pumped liquid characteristics** clean, free from solids and mineral oils, not viscous, chemically neutral, close to the characteristics of water (max 30% glycol).

**Maximum working pressure** 10 bar (1000 kPa).

**Protection degree** IP 44.

**Insulation class** F.

**Cable grommet** PG 11.

**Installation** with motor axis horizontal. Only for extra EU markets. Please contact our sales network for more information.

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## A SINGLE WITH UNIONS

| MODEL        | CODE      | CENTRE<br>DISTANCE<br>mm | PUMP<br>COUPLINGS | ELECTRICAL DATA  |             |         | HYDRAULIC DATA |      |      |      |      |      |     |     |     |     |     |     | WEIGHT<br>KG | Q.TY<br>x<br>PALLET |
|--------------|-----------|--------------------------|-------------------|------------------|-------------|---------|----------------|------|------|------|------|------|-----|-----|-----|-----|-----|-----|--------------|---------------------|
|              |           |                          |                   | VOLTAGE<br>50 Hz | P1 MAX<br>W | In<br>A | Q=m³/h         | 0    | 0.6  | 1.2  | 1.8  | 2.4  | 3   | 4.2 | 7.2 | 12  |     |     |              |                     |
|              |           |                          |                   |                  |             |         | Q=l/min        | 0    | 10   | 20   | 30   | 40   | 50  | 70  | 120 | 200 |     |     |              |                     |
| A 50/180 M   | 505803001 | 180                      | 1 1/2"G           | 1 x 230 V ~      | 195         | 0.95    | H (m)          | 5.7  | 5.6  | 5.4  | 5.3  | 5.1  | 4.8 | 4.2 | 2.6 |     | 5.3 | 115 |              |                     |
| A 50/180 XM  | 505802041 | 180                      | 2"G               | 1 x 230 V ~      | 189         | 0.92    |                | 5.7  | 5.6  | 5.4  | 5.3  | 5.1  | 4.8 | 4.2 | 2.6 |     | 5   | 115 |              |                     |
| A 50/180 T   | 505803601 | 180                      | 1 1/2"G           | 3x400 V ~        | 197         | 0.52    |                | 5.6  | 5.6  | 5.6  | 5.5  | 5.43 | 5.4 | 4.9 | 2.8 |     | 5.2 | 115 |              |                     |
| A 50/180 XT  | 505802671 | 180                      | 2"G               | 3x400 V ~        | 201         | 0.5     |                | 5.9  | 5.85 | 5.8  | 5.6  | 5.5  | 5.2 | 4.6 | 2.9 |     | 5.3 | 115 |              |                     |
| A 56/180 M   | 505805001 | 180                      | 1 1/2"G           | 1 x 230 V ~      | 287         | 1.3     |                | 6.35 | 6.3  | 6.2  | 6.18 | 6    | 5.9 | 5.5 | 4.2 | 1.2 | 5.3 | 115 |              |                     |
| A 56/180 XM  | 505804041 | 180                      | 2"G               | 1 x 230 V ~      | 294         | 1.32    |                | 6.35 | 6.3  | 6.2  | 6.18 | 6    | 5.9 | 5.5 | 4.2 | 1.2 | 5.3 | 115 |              |                     |
| A 56/180 T   | 505805601 | 180                      | 1 1/2"G           | 3x400 V ~        | 294         | 0.6     |                | 6.42 | 6.42 | 6.41 | 6.4  | 6.4  | 6.4 | 6.1 | 4.8 |     | 5.3 | 115 |              |                     |
| A 56/180 XT  | 505804671 | 180                      | 2"G               | 3x400 V ~        | 291         | 0.6     |                | 6.4  | 6.3  | 6.2  | 6.1  | 6    | 5.9 | 5.7 | 4.4 |     | 5.2 | 115 |              |                     |
| A 80/180 M   | 505807001 | 180                      | 1 1/2"G           | 1 x 230 V ~      | 264         | 1.15    |                | 8.25 | 8    | 7.6  | 7.4  | 7.2  | 6.9 | 6.3 | 3.8 |     | 5.3 | 115 |              |                     |
| A 80/180 XM  | 505806041 | 180                      | 2"G               | 1 x 230 V ~      | 260         | 1.17    |                | 8.25 | 8    | 7.6  | 7.4  | 7.2  | 6.9 | 6.3 | 3.8 |     | 5.3 | 115 |              |                     |
| A 80/180 T   | 505807601 | 180                      | 1 1/2"G           | 3x400 V ~        | 271         | 0.57    |                | 8.2  | 7.9  | 7.6  | 7.3  | 7    | 6.8 | 6.1 | 3.7 |     | 5.3 | 115 |              |                     |
| A 80/180 XT  | 505806671 | 180                      | 2"G               | 3x400 V ~        | 272         | 0.57    |                | 8.2  | 7.9  | 7.6  | 7.3  | 7    | 6.8 | 6.1 | 3.7 |     | 5.2 | 115 |              |                     |
| A 110/180 M  | 505808001 | 180                      | 1 1/2"G           | 1 x 230 V ~      | 410         | 1.77    |                | 11.3 | 11   | 10.8 | 10.5 | 10   | 9.8 | 8.9 | 6.7 |     | 5.3 | 54  |              |                     |
| A 110/180 XM | 505809001 | 180                      | 2"G               | 1 x 230 V ~      | 410         | 1.77    |                | 11.3 | 11   | 10.8 | 10.5 | 10   | 9.8 | 9.2 | 7   | 1.7 | 5.3 | 54  |              |                     |
| A 110/180 T  | 505808601 | 180                      | 1 1/2"G           | 3x400 V ~        | 403         | 0.9     |                | 11.3 | 11   | 10.8 | 10.5 | 10   | 9.8 | 8.9 | 6.6 |     | 5.2 | 54  |              |                     |
| A 110/180 XT | 505809601 | 180                      | 2"G               | 3x400 V ~        | 403         | 0.9     |                | 11.3 | 11   | 10.8 | 10.5 | 10   | 9.8 | 9.2 | 7   | 1.6 | 5.2 | 54  |              |                     |

**A, B, D**

WET ROTOR CIRCULATORS

**B SINGLE WITH FLANGES**

| MODEL          | CODE      | CENTRE<br>DISTANCE<br>mm | PUMP<br>COUPLINGS | ELECTRICAL DATA  |             |         | HYDRAULIC DATA |      |      |      |      |     |     |     |     |     |     | WEIGHT<br>KG | Q.TY<br>x<br>PALLET |
|----------------|-----------|--------------------------|-------------------|------------------|-------------|---------|----------------|------|------|------|------|-----|-----|-----|-----|-----|-----|--------------|---------------------|
|                |           |                          |                   | VOLTAGE<br>50 Hz | P1 MAX<br>W | In<br>A | Q=m³h          | 0    | 0.6  | 1.2  | 1.8  | 2.4 | 3   | 4.2 | 7.2 | 12  |     |              |                     |
|                |           |                          |                   |                  |             |         | Q=l/min        | 0    | 10   | 20   | 30   | 40  | 50  | 70  | 120 | 200 |     |              |                     |
| B 50/250.40 M  | 505812041 | 250                      | DN 40             | 1x230V ~         | 195         | 0.95    | H(m)           | 5.7  | 5.6  | 5.4  | 5.3  | 5.1 | 4.8 | 4.2 | 2.6 |     | 9.1 | 42           |                     |
| B 50/250.40 T  | 505812671 | 250                      | DN 40             | 3x400V ~         | 201         | 0.5     |                | 5.9  | 5.85 | 5.8  | 5.6  | 5.5 | 5.2 | 4.6 | 2.9 |     | 9.3 | 42           |                     |
| B 56/250.40 M  | 505814041 | 250                      | DN 40             | 1x230V ~         | 294         | 1.32    |                | 6.35 | 6.3  | 6.2  | 6.18 | 6   | 5.9 | 5.5 | 4.2 | 1.2 | 9.3 | 42           |                     |
| B 56/250.40 T  | 505814671 | 250                      | DN 40             | 3x400V ~         | 291         | 0.6     |                | 6.4  | 6.3  | 6.2  | 6.1  | 6   | 5.9 | 5.7 | 4.4 |     | 9.2 | 42           |                     |
| B 80/250.40 M  | 505816041 | 250                      | DN 40             | 1x230V ~         | 260         | 1.17    |                | 8.25 | 8    | 7.6  | 7.4  | 7.2 | 6.9 | 6.3 | 3.8 |     | 9.3 | 42           |                     |
| B 80/250.40 T  | 505816671 | 250                      | DN 40             | 3x400V ~         | 272         | 0.57    |                | 8.2  | 7.9  | 7.6  | 7.3  | 7   | 6.8 | 6.1 | 3.7 |     | 9.3 | 42           |                     |
| B 110/250.40 M | 505818001 | 250                      | DN 40             | 1x230V ~         | 410         | 1.77    |                | 11.3 | 11   | 10.8 | 10.5 | 10  | 9.8 | 9.2 | 7   | 1.7 | 9.2 | 42           |                     |
| B 110/250.40 T | 505818601 | 250                      | DN 40             | 3x400V ~         | 403         | 0.9     |                | 11.3 | 11   | 10.8 | 10.5 | 10  | 9.8 | 9.2 | 7   | 1.6 | 9.3 | 42           |                     |

**D TWIN WITH FLANGES**

| MODEL          | CODE      | CENTRE<br>DISTANCE<br>mm | PUMP<br>COUPLINGS | ELECTRICAL DATA  |             |         | HYDRAULIC DATA |      |      |      |      |     |     |     |     |     |      |    | WEIGHT<br>KG | Q.TY<br>x<br>PALLET |
|----------------|-----------|--------------------------|-------------------|------------------|-------------|---------|----------------|------|------|------|------|-----|-----|-----|-----|-----|------|----|--------------|---------------------|
|                |           |                          |                   | VOLTAGE<br>50 Hz | P1 MAX<br>W | In<br>A | Q=m³h          | 0    | 0.6  | 1.2  | 1.8  | 2.4 | 3   | 4.2 | 7.2 | 12  |      |    |              |                     |
|                |           |                          |                   |                  |             |         | Q=l/min        | 0    | 10   | 20   | 30   | 40  | 50  | 70  | 120 | 200 |      |    |              |                     |
| D 50/250.40 M  | 505822041 | 250                      | DN 40 - PN 10     | 1x230V ~         | 195         | 0.95    | H(m)           | 5.7  | 5.6  | 5.4  | 5.3  | 5.1 | 4.8 | 4.2 | 2.6 |     | 15.3 | 24 |              |                     |
| D 50/250.40 T  | 505822671 | 250                      | DN 40 - PN 10     | 3x400V ~         | 201         | 0.5     |                | 5.9  | 5.85 | 5.8  | 5.6  | 5.5 | 5.2 | 4.6 | 2.9 |     | 15.8 | 24 |              |                     |
| D 56/250.40 M  | 505824041 | 250                      | DN 40 - PN 10     | 1x230V ~         | 294         | 1.32    |                | 6.35 | 6.3  | 6.2  | 6.18 | 6   | 5.9 | 5.5 | 4.2 | 1.2 | 15.8 | 24 |              |                     |
| D 56/250.40 T  | 505824671 | 250                      | DN 40 - PN 10     | 3x400V ~         | 291         | 0.6     |                | 5.9  | 5.85 | 5.8  | 5.6  | 5.5 | 5.2 | 4.6 | 2.9 |     | 15.4 | 24 |              |                     |
| D 80/250.40 M  | 505826041 | 250                      | DN 40 - PN 10     | 1x230V ~         | 260         | 1.17    |                | 8.25 | 8    | 7.6  | 7.4  | 7.2 | 6.9 | 6.3 | 3.8 |     | 15.8 | 24 |              |                     |
| D 80/250.40 T  | 505826671 | 250                      | DN 40 - PN 10     | 3x400V ~         | 272         | 0.57    |                | 8.2  | 7.9  | 7.6  | 7.3  | 7   | 6.8 | 6.1 | 3.7 |     | 15.8 | 24 |              |                     |
| D 110/250.40 M | 505828001 | 250                      | DN 40 - PN 10     | 1x230V ~         | 410         | 1.77    |                | 11.3 | 11   | 10.8 | 10.5 | 10  | 9.8 | 9.2 | 7   | 1.7 | 16   | 24 |              |                     |
| D 110/250.40 T | 505828601 | 250                      | DN 40 - PN 10     | 3x400V ~         | 403         | 0.9     |                | 11.3 | 11   | 10.8 | 10.5 | 10  | 9.8 | 9.2 | 7   | 1.6 | 15.8 | 24 |              |                     |

DAB SERVICES

HEATING AND  
AIR CONDITIONING

ESYBOX LINE

CONTROL UNIT

WATER PRESSURIZATION

BOOSTER  
SETSEND SUCTION AND  
VERTICAL MULTISTAGE PUMPSDRAINAGE  
AND SEWAGEGROUNDWATER  
AND IRRIGATION

SWIMMING POOL PUMPS

FIRE FIGHTING

# BPH, BMH, DPH, DMH

## WET ROTOR CIRCULATORS



DAB SERVICES

HEATING AND  
AIR CONDITIONING

ESYBOX LINE

CONTROL UNIT

WATER PRESSURIZATION

BOOSTER  
SETSEND SUCTION AND  
VERTICAL MULTISTAGE PUMPSDRAINAGE  
AND SEWAGEGROUNDWATER  
AND IRRIGATION

SWIMMING POOL PUMPS

FIRE FIGHTING



Pump for circulating hot water in small closed and pressurised or open tank civil and industrial community heating systems.

Cast iron body and wet rotor motor.

Die-cast aluminium motor casing.

Flanged inlet and delivery mouths, fitted with threaded unions for pressure gauges.

Technopolymer impeller, tempered stainless steel driving shaft.

Stainless steel protective rotor sleeve and stator sleeve.

Four pole asynchronous motor for the BMH and DMH versions, two pole motor for the BPH and DPH versions.

The single-phase circulator has been designed to work at three speeds - 230 V, while the Three-phase circulator has been designed to work at two speeds - 230 V and at three speeds - 400 V.

Thermal overload protection incorporated in the single-phase version.

For the three-phase version the motor must be connected to the power supply through an external contactor.

An automatic clapet type valve is incorporated into the delivery mouth of the twin version in order to prevent water from recirculating while the unit is not working; a blank flange is also supplied standard if one of the two motors must be serviced.

**Protection level** IP44 three-phase; IP42 single-phase.

**Operating range** from 1.5 to 78 m³/h with head up to 18 metres.

**Liquid temperature range** for three-phase version: from -10°C to +120°C (for the models BPH, DPH 150/340.65 T and BPH, DPH 150/360.80 T; BPH, DPH 150-180/280.50 T; BPH, DPH 180/340.65 T; BPH, DPH 180/360.80 T: from -10°C to +110°C). For single-phase version: from -10°C to +110°C.

**Characteristics of pumped liquid** clean, free from solids and mineral oils, not viscous, chemically neutral, close to the characteristics of water (max. glycol 30%).

**Maximum working pressure** 10 bar (1000 kPa).

**Standard flanging** DN 40, DN 50, DN 65, DN 80 in PN 6/PN 10 (4 holes).

**Flanging on request** DN 80 in PN 10/PN 16 (8 holes).

**Installation** with motor axis horizontal.

**Cable grommet** PG 11. Only for extra EU markets. Please contact our sales network for more information.

ONLY FOR  
EXTRA  
MARKETS

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### SINGLE WITH FLANGES

| MODEL           | CODE      | CENTRE<br>DISTANCE<br>mm | PUMP<br>COUPLINGS | ELECTRICAL DATA      |                |              | HYDRAULIC DATA |      |      |      |      |       |       |       |       |       |       |       |       |      |      |      |      |      | WEIGHT<br>KG | Q.TY<br>x<br>PALLET |    |
|-----------------|-----------|--------------------------|-------------------|----------------------|----------------|--------------|----------------|------|------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|------|------|------|------|------|--------------|---------------------|----|
|                 |           |                          |                   | VOLTAGE<br>50 Hz     | P1<br>MAX<br>W | In<br>A      | Q=m³/h         | 0    | 1.8  | 2.4  | 3    | 4.2   | 5.4   | 7.2   | 9.6   | 12    | 14.4  | 18    | 24    | 30   | 36   | 42   | 54   | 72   |              |                     |    |
|                 |           |                          |                   |                      |                |              | Q=l/min        | 0    | 30   | 40   | 50   | 70    | 90    | 120   | 160   | 200   | 240   | 300   | 400   | 500  | 600  | 700  | 900  | 1200 |              |                     |    |
| BMH 30/250.40T  | 505900622 | 250                      | DN 40             | 3x230V ~<br>3x400V ~ | 100<br>192     | 0,48<br>0,78 | H(m)           | 3.3  | 3.1  | 2.95 | 2.85 | 2.5   | 2.1   | 1.15  |       |       |       |       |       |      |      |      |      |      | 17.5         | 24                  |    |
| BPH 60/250.40M  | 505904002 | 250                      | DN 40             | 1x230V ~             | 316            | 1.43         |                | 7.2  | 6.8  | 6.7  | 6.5  | 6.2   | 5.8   | 5     | 3.7   | 2     |       |       |       |      |      |      |      |      |              | 17.5                | 24 |
| BPH 60/250.40T  | 505904622 | 250                      | DN 40             | 3x230V ~<br>3x400V ~ | 253<br>348     | 0,81<br>0,99 |                | 7.65 | 7.4  | 7.3  | 7.2  | 6.8   | 6.4   | 5.45  | 3.9   | 2.25  |       |       |       |      |      |      |      |      |              | 17.5                | 24 |
| BPH 120/250.40M | 505907002 | 250                      | DN 40             | 1x230V ~             | 510            | 2.24         |                | 11   | 10.3 | 10.1 | 9.8  | 9.2   | 8.6   | 7.65  | 6.2   | 4.35  | 2.4   |       |       |      |      |      |      |      |              | 17.5                | 24 |
| BPH 120/250.40T | 505907622 | 250                      | DN 50             | 3x230V ~<br>3x400V ~ | 395<br>536     | 1,2<br>1,16  |                | 12   |      | 11   | 10.7 | 10.1  | 9.5   | 8.4   | 6.8   | 4.7   | 2.2   |       |       |      |      |      |      |      |              | 17.5                | 24 |
| BMH 30/280.50T  | 505920622 | 280                      | DN 50             | 3x230V ~<br>3x400V ~ | 148<br>255     | 0,7<br>1,12  |                | 3.15 |      | 3.02 | 3    | 2.93  | 2.85  | 2.65  | 2.3   | 1.75  | 1.2   |       |       |      |      |      |      |      |              | 24                  | 24 |
| BMH 60/280.50T  | 505923622 | 280                      | DN 50             | 3x230V ~<br>3x400V ~ | 272<br>410     | 0,94<br>1,2  |                | 5.83 |      | 5.65 | 5.6  | 5.49  | 5.35  | 5.1   | 4.75  | 4.2   | 3.65  | 2.62  |       |      |      |      |      |      |              | 24                  | 24 |
| BPH 60/280.50M  | 505924002 | 280                      | DN 50             | 1x230V ~             | 595            | 2.79         |                | 7.65 | 7.5  | 7.45 | 7.4  | 7.3   | 7.2   | 6.98  | 6.7   | 6.2   | 5.75  | 4.6   | 2.3   |      |      |      |      |      |              | 24                  | 24 |
| BPH 60/280.50T  | 505924622 | 280                      | DN 50             | 3x230V ~<br>3x400V ~ | 464<br>589     | 1,35<br>1,31 |                | 7.95 |      | 7.75 | 7.7  | 7.6   | 7.5   | 7.35  | 6.92  | 6.45  | 5.85  | 4.65  | 2.4   |      |      |      |      |      |              | 24                  | 24 |
| BPH 120/280.50M | 505927002 | 280                      | DN 50             | 1x230V ~             | 870            | 3.97         |                | 11.3 |      |      |      | 10.8  | 10.5  | 10.3  | 9.9   | 9.4   | 8.5   | 7.2   | 4.8   | 2.1  |      |      |      |      |              | 24                  | 24 |
| BPH 120/280.50T | 505927622 | 280                      | DN 50             | 3x230V ~<br>3x400V ~ | 683<br>898     | 1,95<br>1,67 |                | 11.7 |      |      |      | 11.3  | 11    | 10.75 | 10.25 | 9.6   | 8.9   | 7.75  | 5.4   | 2.6  |      |      |      |      |              | 26                  | 24 |
| BPH 150/280.50T | 505928622 | 280                      | DN 50             | 3x230V ~<br>3x400V ~ | 1130<br>1470   | 3,22<br>2,9  |                | 15   |      |      |      | 14.6  | 14.4  | 14    | 13.6  | 12.7  | 11.8  | 10.5  | 7.5   |      |      |      |      |      |              | 26                  | 24 |
| BPH 180/280.50T | 505929622 | 280                      | DN 50             | 3x230V ~<br>3x400V ~ | 1230<br>1630   | 3,5<br>3     |                | 18.4 |      |      |      |       |       | 17.4  | 17    | 16.4  | 15.6  | 14.4  | 12    | 8.8  | 5.2  |      |      |      |              | 26                  | 24 |
| BMH 30/340.65T  | 505940622 | 340                      | DN 65             | 3x230V ~<br>3x400V ~ | 170<br>270     | 0,73<br>1,12 |                | 3.15 |      |      |      | 3.09  | 3.02  | 2.98  | 2.85  | 2.55  | 2.25  | 1.65  |       |      |      |      |      |      |              | 27.5                | 12 |
| BMH 60/340.65T  | 505943622 | 340                      | DN 65             | 3x230V ~<br>3x400V ~ | 295<br>445     | 1<br>1,2     |                | 5.4  |      |      |      | 5.15  | 5.05  | 4.9   | 4.7   | 4.45  | 4.1   | 3.45  | 2.25  |      |      |      |      |      |              | 27.5                | 12 |
| BPH 60/340.65M  | 505944002 | 340                      | DN 65             | 1x230V ~             | 735            | 3.37         |                | 6.8  | 6.79 | 6.75 | 6.7  | 6.6   | 6.57  | 6.5   | 6.35  | 6.2   | 5.95  | 5.5   | 4.35  | 2.85 | 1.2  |      |      |      |              | 27.5                | 12 |
| BPH 60/340.65T  | 505944622 | 340                      | DN 65             | 3x230V ~<br>3x400V ~ | 582<br>756     | 1,67<br>1,5  |                | 7.4  |      |      |      | 7.35  | 7.3   | 7.24  | 7.1   | 6.9   | 6.65  | 6.15  | 4.9   | 3.3  | 1.4  |      |      |      |              | 30.5                | 12 |
| BPH 120/340.65T | 505947622 | 340                      | DN 65             | 3x230V ~<br>3x400V ~ | 1001<br>1275   | 2,85<br>2,64 |                | 10.9 |      |      |      | 10.75 | 10.68 | 10.6  | 10.5  | 10.38 | 10.2  | 9.8   | 8.7   | 7.15 | 5.2  | 3    |      |      |              | 32.5                | 12 |
| BPH 150/340.65T | 505948622 | 340                      | DN 65             | 3x230V ~<br>3x400V ~ | 1345<br>1796   | 3,8<br>3,25  |                | 14.9 |      |      |      | 14.88 | 14.83 | 14.75 | 14.65 | 14.55 | 14.3  | 13.88 | 12.65 | 11   | 9.35 | 7.15 |      |      |              | 32.5                | 12 |
| BPH 180/340.65T | 505949622 | 340                      | DN 65             | 3x230V ~<br>3x400V ~ | 1730<br>2760   | 4,85<br>4,2  |                | 17.9 |      |      |      |       |       | 17.8  | 17.7  | 17.5  | 17.3  | 16.8  | 15.7  | 14.1 | 12.1 | 10   |      |      |              | 32.5                | 12 |
| BMH 30/360.80T  | 505960122 | 360                      | DN 80             | 3x230V ~<br>3x400V ~ | 313<br>484     | 1,05<br>1,23 |                | 3.9  |      |      |      |       |       | 3.85  | 3.8   | 3.75  | 3.65  | 3.48  | 3.1   | 2.45 | 1.75 |      |      |      |              | 31                  | 12 |
| BMH 60/360.80T  | 505963122 | 360                      | DN 80             | 3x230V ~<br>3x400V ~ | 535<br>763     | 1,82<br>2,04 |                | 5.7  |      |      |      |       |       | 5.66  | 5.61  | 5.59  | 5.5   | 5.4   | 5     | 4.55 | 3.9  | 3.1  |      |      |              | 40                  | 12 |
| BPH 120/360.80T | 505967122 | 360                      | DN 80             | 3x230V ~<br>3x400V ~ | 1410<br>1820   | 3,95<br>3,3  |                | 11.8 |      |      |      |       |       | 11.65 | 11.58 | 11.5  | 11.4  | 11.25 | 10.75 | 10.2 | 9.39 | 8.37 | 5.65 |      |              | 40                  | 12 |
| BPH 150/360.80T | 505968122 | 360                      | DN 80             | 3x230V ~<br>3x400V ~ | 1984<br>2870   | 5,62<br>4,64 |                | 15.3 |      |      |      |       |       | 15.1  | 15.06 | 14.99 | 14.92 | 14.75 | 14.5  | 14   | 13.4 | 12.4 | 10.3 | 6    |              | 40                  | 12 |
| BPH 180/360.80T | 505969122 | 360                      | DN 80             | 3x230V ~<br>3x400V ~ | 1670<br>2310   | 4,7<br>4     |                | 17.5 |      |      |      |       |       | 17.4  | 17.25 | 17.1  | 16.8  | 16.25 | 15    | 13.7 | 12   | 10.1 | 5.5  |      |              | 40                  | 12 |

# BPH, BMH, DPH, DMH

WET ROTOR CIRCULATORS



## TWIN WITH FLANGES

| MODEL            | CODE      | CENTRE<br>DISTANCE<br>mm | PUMP<br>COUPLINGS | ELECTRICAL DATA        |                |              | HYDRAULIC DATA |      |      |      |      |       |       |       |       |       |       |       |       |      |      |      |      |      |  |  |    |      | WEIGHT<br>KG | Q.TY<br>x<br>PALLET |
|------------------|-----------|--------------------------|-------------------|------------------------|----------------|--------------|----------------|------|------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|------|------|------|------|------|--|--|----|------|--------------|---------------------|
|                  |           |                          |                   | VOLTAGE<br>50 Hz       | P1<br>MAX<br>W | In<br>A      | Q=m³/h         | 0    | 1.8  | 2.4  | 3    | 4.2   | 5.4   | 7.2   | 9.6   | 12    | 14.4  | 18    | 24    | 30   | 36   | 42   | 54   | 72   |  |  |    |      |              |                     |
|                  |           |                          |                   |                        |                |              | Q=l/min        | 0    | 30   | 40   | 50   | 70    | 90    | 120   | 160   | 200   | 240   | 300   | 400   | 500  | 600  | 700  | 900  | 1200 |  |  |    |      |              |                     |
| DMH 30/250.40 T  | 505910622 | 250                      | DN 40             | 3x230 V ~<br>3x400 V ~ | 100<br>192     | 0,48<br>0,78 | H(m)           | 3.3  | 3.1  | 2.95 | 2.85 | 2.5   | 2.1   | 1.15  |       |       |       |       |       |      |      |      |      |      |  |  | 32 | 12   |              |                     |
| DPH 60/250.40 M  | 505914002 | 250                      | DN 40             | 1x230 V ~              | 316            | 1.43         |                | 7.2  | 6.8  | 6.7  | 6.5  | 6.2   | 5.8   | 5     | 3.7   | 2     |       |       |       |      |      |      |      |      |  |  |    | 32   | 12           |                     |
| DPH 60/250.40 T  | 505914622 | 250                      | DN 40             | 3x230 V ~<br>3x400 V ~ | 253<br>348     | 0,81<br>0,99 |                | 7.65 | 7.4  | 7.3  | 7.2  | 6.8   | 6.4   | 5.45  | 3.9   | 2.25  |       |       |       |      |      |      |      |      |  |  |    | 32   | 12           |                     |
| DPH 120/250.40 M | 505917002 | 250                      | DN 40             | 1x230 V ~              | 510            | 2.24         |                | 11   | 10.3 | 10.1 | 9.8  | 9.2   | 8.6   | 7.65  | 6.2   | 4.35  | 2.4   |       |       |      |      |      |      |      |  |  |    | 32   | 12           |                     |
| DPH 120/250.40 T | 505917622 | 250                      | DN 40             | 3x230 V ~<br>3x400 V ~ | 395<br>536     | 1,2<br>1,16  |                | 12   |      | 11   | 10.7 | 10.1  | 9.5   | 8.4   | 6.8   | 4.7   | 2.2   |       |       |      |      |      |      |      |  |  |    | 32   | 12           |                     |
| DMH 30/280.50 T  | 505930622 | 280                      | DN 50             | 3x230 V ~<br>3x400 V ~ | 148<br>255     | 0,7<br>1,12  |                | 3.15 |      | 3.02 | 3    | 2.93  | 2.85  | 2.65  | 2.3   | 1.75  | 1.2   |       |       |      |      |      |      |      |  |  |    | 51.5 | 8            |                     |
| DMH 60/280.50 T  | 505933622 | 280                      | DN 50             | 3x230 V ~<br>3x400 V ~ | 272<br>410     | 0,94<br>1,2  |                | 5.83 |      | 5.65 | 5.6  | 5.49  | 5.35  | 5.1   | 4.75  | 4.2   | 3.65  | 2.62  |       |      |      |      |      |      |  |  |    | 44.5 | 8            |                     |
| DPH 60/280.50 M  | 505934002 | 280                      | DN 50             | 1x230 V ~              | 595            | 2.79         |                | 7.65 | 7.5  | 7.45 | 7.4  | 7.3   | 7.2   | 6.98  | 6.7   | 6.2   | 5.75  | 4.6   | 2.3   |      |      |      |      |      |  |  |    | 44.5 | 8            |                     |
| DPH 60/280.50 T  | 505934622 | 280                      | DN 50             | 3x230 V ~<br>3x400 V ~ | 464<br>589     | 1,35<br>1,31 |                | 7.95 |      | 7.75 | 7.7  | 7.6   | 7.5   | 7.35  | 6.92  | 6.45  | 5.85  | 4.65  | 2.4   |      |      |      |      |      |  |  |    | 44.5 | 8            |                     |
| DPH 120/280.50M  | 505937002 | 280                      | DN 50             | 1x230 V ~              | 870            | 3.97         |                | 11.3 |      |      |      | 10.8  | 10.5  | 10.3  | 9.9   | 9.4   | 8.5   | 7.2   | 4.8   | 2.1  |      |      |      |      |  |  |    | 44.5 | 8            |                     |
| DPH 120/280.50 T | 505937622 | 280                      | DN 50             | 3x230 V ~<br>3x400 V ~ | 683<br>898     | 1,95<br>1,67 |                | 11.7 |      |      |      | 11.3  | 11    | 10.75 | 10.25 | 9.6   | 8.9   | 7.75  | 5.4   | 2.6  |      |      |      |      |  |  |    | 49   | 8            |                     |
| DPH 150/280.50T  | 505938622 | 280                      | DN 50             | 3x230 V ~<br>3x400 V ~ | 1130<br>1470   | 3,22<br>2,9  |                | 15   |      |      |      | 14.6  | 14.4  | 14    | 13.6  | 12.7  | 11.8  | 10.5  | 7.5   |      |      |      |      |      |  |  |    | 49   | 8            |                     |
| DPH 180/280.50T  | 505939622 | 280                      | DN 50             | 3x230 V ~<br>3x400 V ~ | 1230<br>1630   | 3,5<br>3     |                | 18.4 |      |      |      |       |       | 17.4  | 17    | 16.4  | 15.6  | 14.4  | 12    | 8.8  | 5.2  |      |      |      |  |  |    | 49   | 8            |                     |
| DMH 30/340.65 T  | 505950622 | 340                      | DN 65             | 3x230 V ~<br>3x400 V ~ | 170<br>270     | 0,73<br>1,12 |                | 3.15 |      |      |      | 3.09  | 3.02  | 2.98  | 2.85  | 2.55  | 2.25  | 1.65  |       |      |      |      |      |      |  |  |    | 57   | 8            |                     |
| DMH 60/340.65 T  | 505953622 | 340                      | DN 65             | 3x230 V ~<br>3x400 V ~ | 295<br>445     | 1<br>1,2     |                | 5.4  |      |      |      | 5.15  | 5.05  | 4.9   | 4.7   | 4.45  | 4.1   | 3.45  | 2.25  |      |      |      |      |      |  |  |    | 50   | 8            |                     |
| DPH 60/340.65 M  | 505954002 | 340                      | DN 65             | 1x230 V ~              | 735            | 3.37         |                | 6.8  | 6.79 | 6.75 | 6.7  | 6.6   | 6.57  | 6.5   | 6.35  | 6.2   | 5.95  | 5.5   | 4.35  | 2.85 | 1.2  |      |      |      |  |  |    | 50   | 8            |                     |
| DPH 60/340.65 T  | 505954622 | 340                      | DN 65             | 3x230 V ~<br>3x400 V ~ | 582<br>756     | 1,67<br>1,5  |                | 7.4  |      |      |      | 7.35  | 7.3   | 7.24  | 7.1   | 6.9   | 6.65  | 6.15  | 4.9   | 3.3  | 1.4  |      |      |      |  |  |    | 50   | 8            |                     |
| DPH 120/340.65 T | 505957622 | 340                      | DN 65             | 3x230 V ~<br>3x400 V ~ | 1001<br>1275   | 2,85<br>2,64 |                | 10.9 |      |      |      | 10.75 | 10.68 | 10.6  | 10.5  | 10.38 | 10.2  | 9.8   | 8.7   | 7.15 | 5.2  | 3    |      |      |  |  |    | 59   | 8            |                     |
| DPH 150/340.65 T | 505958622 | 340                      | DN 65             | 3x230 V ~<br>3x400 V ~ | 1345<br>1796   | 3,8<br>3,25  |                | 14.9 |      |      |      | 14.88 | 14.83 | 14.75 | 14.65 | 14.55 | 14.3  | 13.88 | 12.65 | 11   | 9.35 | 7.15 |      |      |  |  |    | 59   | 8            |                     |
| DPH 180/340.65 T | 505959622 | 340                      | DN 65             | 3x230 V ~<br>3x400 V ~ | 1730<br>2760   | 4,85<br>4,2  |                | 17.9 |      |      |      |       |       | 17.8  | 17.7  | 17.5  | 17.3  | 16.8  | 15.7  | 14.1 | 12.1 | 10   |      |      |  |  |    | 59   | 8            |                     |
| DMH 30/360.80 T  | 505970122 | 360                      | DN 80             | 3x230 V ~<br>3x400 V ~ | 313<br>484     | 1,05<br>1,23 |                | 3.9  |      |      |      |       |       | 3.85  | 3.8   | 3.75  | 3.65  | 3.48  | 3.1   | 2.45 | 1.75 |      |      |      |  |  |    | 54.5 | 8            |                     |
| DMH 60/360.80 T  | 505973122 | 360                      | DN 80             | 3x230 V ~<br>3x400 V ~ | 535<br>763     | 1,82<br>2,04 |                | 5.7  |      |      |      |       |       | 5.66  | 5.61  | 5.59  | 5.5   | 5.4   | 5     | 4.55 | 3.9  | 3.1  |      |      |  |  |    | 72   | 8            |                     |
| DPH 120/360.80 T | 505977122 | 360                      | DN 80             | 3x230 V ~<br>3x400 V ~ | 1410<br>1820   | 3,95<br>3,3  |                | 11.8 |      |      |      |       |       | 11.65 | 11.58 | 11.5  | 11.4  | 11.25 | 10.75 | 10.2 | 9.39 | 8.37 | 5.65 |      |  |  |    | 72   | 8            |                     |
| DPH 150/360.80 T | 505978122 | 360                      | DN 80             | 3x230 V ~<br>3x400 V ~ | 1984<br>2870   | 5,62<br>4,64 |                | 15.3 |      |      |      |       |       | 15.1  | 15.06 | 14.99 | 14.92 | 14.75 | 14.5  | 14   | 13.4 | 12.4 | 10.3 | 6    |  |  |    | 72   | 8            |                     |
| DPH 180/360.80 T | 505979122 | 360                      | DN 80             | 3x230 V ~<br>3x400 V ~ | 1670<br>2310   | 4,7<br>4     |                | 17.5 |      |      |      |       |       | 17.4  | 17.25 | 17.1  | 16.8  | 16.25 | 15    | 13.7 | 12   | 10.1 | 5.5  |      |  |  |    | 72   | 8            |                     |

DAB SERVICES

HEATING AND  
AIR CONDITIONING

ESYBOX LINE

CONTROL UNIT

WATER PRESSURIZATION

BOOSTER  
SETSEND SUCTION AND  
VERTICAL MULTISTAGE PUMPSDRAINAGE  
AND SEWAGEGROUNDWATER  
AND IRRIGATION

SWIMMING POOL PUMPS

FIRE FIGHTING

**VS****WET-ROTOR CIRCULATORS**

DAB SERVICES

HEATING AND  
AIR CONDITIONING

ESYBOX LINE

CONTROL UNIT

WATER PRESSURIZATION

BOOSTER  
SETSEND SUCTION AND  
VERTICAL MULTISTAGE PUMPSDRAINAGE  
AND SEWAGEGROUNDWATER  
AND IRRIGATION

SWIMMING POOL PUMPS

FIRE FIGHTING



Circulation pump for unvented and pressurized or open vented domestic hot water systems. Also suitable for solar energy systems.

**Bronze pump body.** Die-cast aluminium motor casing. Technopolymer impeller. Ceramic motor shaft mounted on graphite bushings lubricated by the same pumped liquid. Stainless steel rotor liner, stator liner and closing flange. Ceramic thrust bearing ring, ethylene-propylene seal rings. The two- or four-pole, asynchronous, wet-rotor motor is protected for resistance and **requires no overload protection.**

**Operating range**

0.6 to 3.7 m<sup>3</sup>/h with head up to 6 metres.

**Liquid temperature range**

-10°C to +85°C (for domestic hot water systems).

+110°C (for other uses).

**Pumped liquid** clean, free of solids and mineral oils, non-viscous, chemically neutral, close to the characteristics of water.

**Maximum working pressure**

10 bar (1000 kPa).

**Protection degree** IP 44.

**Insulation class** F.

**Cable grommet** PG 11.

**Installation** with horizontal motor shaft.

**ACCESSORIES**  
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| MODEL       | CODE      | CENTRE<br>DISTANCE<br>mm | PUMP COUP. | UNIONS<br>ON REQUEST                               | ELECTRICAL DATA             |             |      | HYDRAULIC DATA |      |      |      |      |      |     | WEIGHT<br>KG | QTY<br>PER<br>PALLET |
|-------------|-----------|--------------------------|------------|----------------------------------------------------|-----------------------------|-------------|------|----------------|------|------|------|------|------|-----|--------------|----------------------|
|             |           |                          |            |                                                    | POWER<br>SUPPLY 50/60<br>Hz | P1 MAX<br>W | In A | Q=m³h          | 0    | 0.6  | 1.2  | 1.8  | 2.4  | 3   |              |                      |
|             |           |                          |            |                                                    |                             |             |      | Q=l/min        | 0    | 10   | 20   | 30   | 40   | 50  |              |                      |
| VS 8/150 M  | 60182217H | 150                      | 1 ½"       | Brass 1/2" F - 3/4" F - 1" F<br>COPPER d22 and d28 | 1x230 V                     | 35          | 0.19 | H (m)          | 0.83 | 0.75 | 0.52 | 0.22 |      |     | 2.6          | 180                  |
| VS 16/150 M | 60182216H | 150                      | 1 ½"       | Brass 1/2" F - 3/4" F - 1" F<br>COPPER d22 and d28 | 1x230 V                     | 41          | 0.19 |                | 1.82 | 1.75 | 1.65 | 1.44 | 1.07 | 0.6 | 2.6          | 180                  |
| VS 35/150 M | 60182215H | 150                      | 1 ½"       | Brass 1/2" F - 3/4" F - 1" F<br>COPPER d22 and d28 | 1x230 V                     | 55          | 0.24 |                | 4.1  | 3.7  | 3.3  | 2.82 | 2.2  | 1.3 | 2.6          | 180                  |
| VS 65/150 M | 60182213H | 150                      | 1 ½"       | Brass 1/2" F - 3/4" F - 1" F<br>COPPER d22 and d28 | 1x230 V                     | 78          | 0.34 |                | 6    | 5.55 | 5.05 | 4.25 | 3.4  | 2.6 | 2.6          | 180                  |