

# BADU® 21-50/21-60

Universal, medium-size circulation pump. Reliable and flexible.  
For whirlpools, counter swim units, pool cleaning devices and massage units.

## Field of application

Large whirlpools, hotel pools, swimming pools and industrial filter units, counter swim units, massage units, air conditioning units, pool cleaning devices and many other applications with a flow rate of up to 54 m³/h.

## Design

The bellows-type mechanical seal is mounted on a plastic shaft protector sleeve.  
Motor/pump shaft has no contact with the pool water providing complete electrical separation.  
Discharge outlet swivels infinitely.

## Materials used

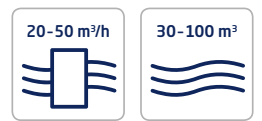
Pump casing ..... PP GF 30  
Housing cover ..... PPE GF 30  
Impeller BADU 21-50 ..... POM GF 30  
Impeller BADU 21-60 ..... PP GF 30  
Wear ring ..... stainless steel  
Mechanical seal ..... carbon/ceramic/NBR  
Impeller nut ..... PP GF 30  
Clamping ring ..... aluminium  
Screws ..... galvanised steel  
Motor shaft ..... stainless steel  
Elastomers ..... NBR/viton

For suitable connection unions please see page 132.

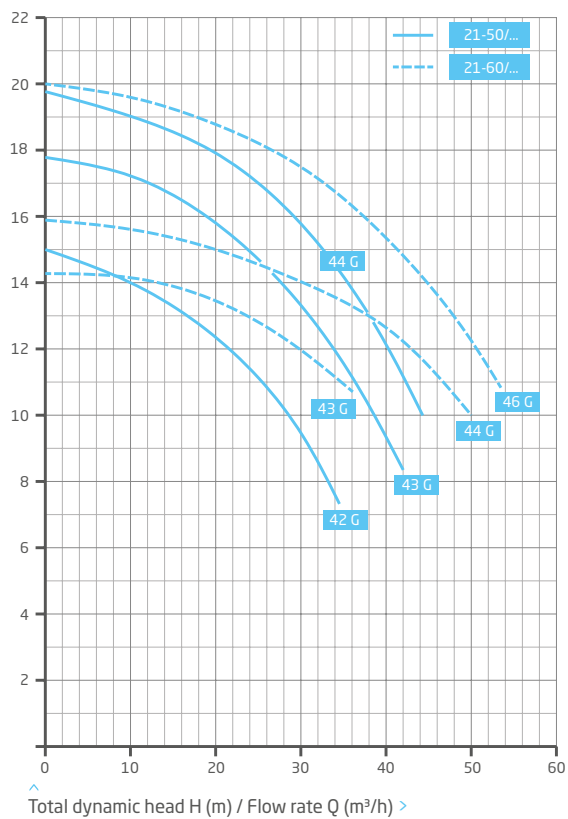
| Technical data at 50 Hz                                              | BADU 21-         | 50/42 G     | 50/43 G     | 50/44 G     | 60/43 G     | 60/44 G     | 60/46 G     |
|----------------------------------------------------------------------|------------------|-------------|-------------|-------------|-------------|-------------|-------------|
| Inlet Sa/outlet connection Da G <sup>3)</sup>                        |                  | 2¾/2¾       | 2¾/2¾       | 2¾/2¾       | 2¾/2¾       | 2¾/2¾       | 2¾/2¾       |
| Rec. inlet/outlet pipe, PVC pipe, d <sup>4)</sup>                    |                  | 90/75       | 90/75       | 90/75       | 90/75       | 90/75       | 90/75       |
| Power input P <sub>1</sub> /output P <sub>2</sub> <sup>1)</sup> (kW) | 1~ 230 V         | 1.63/1.10   | 2.27/1.60   | 2.90/2.20   | 2.27/1.60   | 2.90/2.20   | 3.90/3.00   |
| Rated current (A)                                                    | 1~ 230 V         | 7.20        | 10.00       | 13.00       | 10.00       | 13.00       | 17.00       |
| Power input P <sub>1</sub> /output P <sub>2</sub> <sup>1)</sup> (kW) | 3~ Y/Δ 400/230 V | 1.33/1.10   | 1.90/1.60   | 2.55/2.20   | 1.90/1.60   | 2.55/2.20   | 3.45/3.00   |
| Rated current (A)                                                    | 3~ Y/Δ 400/230 V | 2.40/4.15   | 3.30/5.70   | 4.60/8.00   | 3.30/5.70   | 4.60/8.00   | 6.20/10.70  |
| Net weight (kg)                                                      | 1~/3~            | 17.00/13.00 | 17.00/14.00 | 19.00/17.00 | 14.00/17.00 | 17.00/19.00 | 29.00/16.00 |

For more detailed information regarding the motor protection please see page 143.

| Article no   | Description     | Voltage          | Power output P <sub>2</sub> |
|--------------|-----------------|------------------|-----------------------------|
| 235.0420.138 | BADU 21-50/42 G | 1~ 230 V         | 1.10 kW                     |
| 235.0430.138 | BADU 21-50/43 G | 1~ 230 V         | 1.60 kW                     |
| 235.0440.138 | BADU 21-50/44 G | 1~ 230 V         | 2.20 kW                     |
| 236.0430.138 | BADU 21-60/43 G | 1~ 230 V         | 1.60 kW                     |
| 236.0440.138 | BADU 21-60/44 G | 1~ 230 V         | 2.20 kW                     |
| 236.0460.138 | BADU 21-60/46 G | 1~ 230 V         | 3.00 kW                     |
| 235.0420.137 | BADU 21-50/42 G | 3~ Y/Δ 400/230 V | 1.10 kW                     |
| 235.0430.137 | BADU 21-50/43 G | 3~ Y/Δ 400/230 V | 1.60 kW                     |
| 235.0440.137 | BADU 21-50/44 G | 3~ Y/Δ 400/230 V | 2.20 kW                     |
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| 236.0440.137 | BADU 21-60/44 G | 3~ Y/Δ 400/230 V | 2.20 kW                     |
| 236.0460.137 | BADU 21-60/46 G | 3~ Y/Δ 400/230 V | 3.00 kW                     |

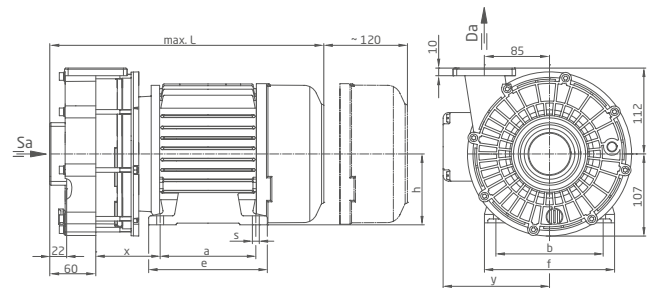


## Performance



## Dimensions

Detailed dimensions available on request or at [badu.de](http://badu.de)



| Type            |    | a   | b   | e   | f   | h   | s  | x   | y   | L   |
|-----------------|----|-----|-----|-----|-----|-----|----|-----|-----|-----|
| BADU 21-50/42 G | 1~ | 125 | 140 | 155 | 170 | 90  | 9  | 85  | 139 | 358 |
| BADU 21-50/42 G | 3~ | 100 | 125 | 125 | 156 | 80  | 9  | 94  | 129 | 333 |
| BADU 21-50/43 G | 1~ | 125 | 140 | 155 | 170 | 90  | 9  | 85  | 139 | 358 |
| BADU 21-50/43 G | 3~ | 125 | 140 | 155 | 170 | 90  | 9  | 100 | 139 | 382 |
| BADU 21-50/44 G | 1~ | 125 | 140 | 155 | 170 | 90  | 9  | 100 | 139 | 373 |
| BADU 21-50/44 G | 3~ | 140 | 160 | 176 | 195 | 100 | 12 | 107 | 155 | 407 |
| BADU 21-60/43 G | 1~ | 125 | 140 | 155 | 170 | 90  | 9  | 85  | 139 | 358 |
| BADU 21-60/43 G | 3~ | 125 | 140 | 155 | 170 | 90  | 9  | 100 | 139 | 382 |
| BADU 21-60/44 G | 1~ | 125 | 140 | 155 | 170 | 90  | 9  | 100 | 139 | 373 |
| BADU 21-60/44 G | 3~ | 140 | 160 | 176 | 195 | 100 | 12 | 107 | 155 | 407 |
| BADU 21-60/46 G | 1~ | 140 | 160 | 176 | 195 | 100 | 12 | 107 | 154 | 427 |
| BADU 21-60/46 G | 3~ | 140 | 160 | 176 | 195 | 100 | 12 | 107 | 155 | 407 |