

BADU® 21-81

Connection variant for BADU 21-80 universal circulation pump.
For whirlpools, counter swim units and swimming pool attractions.

Field of application

Swimming pools and industrial filter units, counter swim units, air conditioning units, swimming pool attractions, cleaning devices and many more applications up to a flow rate of 90 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 outlets swivel gradually by 90° each and by 29° clockwise when viewing the pump from the suction side.

Materials used

Pump casing	PPE GF 30
Wear ring	stainless steel
Housing cover	PPE GF 30
Impeller	PP GF 30
Impeller nut	PP GF 30
Glue sockets	ABS
Mechanical seal	carbon/ceramic/NBR
Motor shaft	stainless steel
Screws	galvanised steel
Elastomers	NBR/viton

For suitable connection unions please see page 156.

Technical data at 50 Hz	BADU 21-81/	31R G	32R G	32 G	33 G	34 G
Inlet Sa/outlet connection Da d ⁴⁾		90/90	90/90	90/90	90/90	90/90
Rec. inlet/outlet pipe, PVC pipe, d ⁴⁾		110/110	110/110	110/110	140/110	140/110
Power input P ₁ /output P ₂ ¹⁾ (kW)	1~ 230 V	2.27/1.60	2.90/2.20	-/-	3.90/3.00	-/-
Rated current (A)	1~ 230 V	10.00	13.00	-/-	17.00 ¹⁾	-/-
Power input P ₁ /output P ₂ ¹⁾ (kW)	3~ Y/Δ 400/230 V	1.90/1.60	2.55/2.20	3.00/2.60	3.45/3.00	-/-
Rated current (A)	3~ Y/Δ 400/230 V	3.30/5.70	4.60/8.00	5.50/9.50	6.20/10.70	-/-
Power input P ₁ /output P ₂ ¹⁾ (kW)	3~ Y/Δ 690/400 V	-/-	-/-	-/-	-/-	4.55/4.00
Rated current (A)	3~ Y/Δ 690/400 V	-/-	-/-	-/-	-/-	4.60/7.90
Net weight (kg)	1~/3~	18.00/15.50	20.00/24.00	-/19.00	40.00/29.00	-/30.00

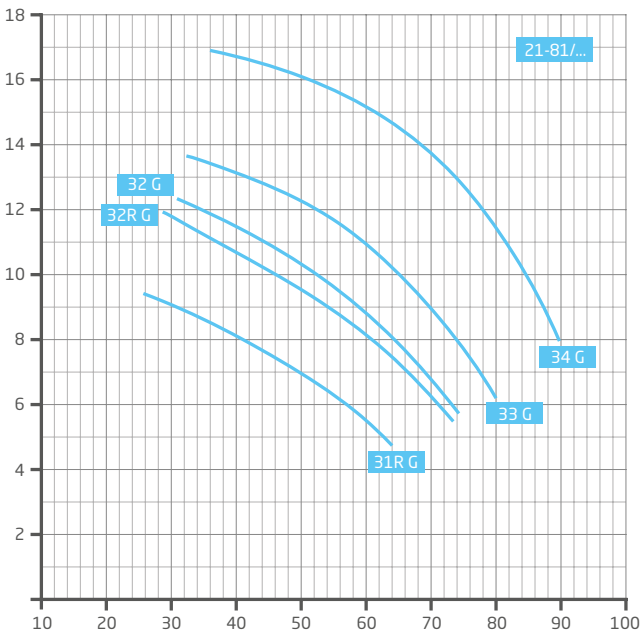
For more detailed information regarding the motor protection please see page 167.

¹⁾ Start-up current approx. 82 A.

Article no	Description	Voltage	Power output P ₂
238.1310.238	BADU 21-81/31R G	1~ 230 V	1.60 kW
238.1320.238	BADU 21-81/32R G	1~ 230 V	2.20 kW
238.1330.338	BADU 21-81/33 G	1~ 230 V	3.00 kW
238.1310.237	BADU 21-81/31R G	3~ Y/Δ 400/230 V	1.60 kW
238.1320.237	BADU 21-81/32R G	3~ Y/Δ 400/230 V	2.20 kW
238.1320.337	BADU 21-81/32 G	3~ Y/Δ 400/230 V	2.60 kW
238.1330.337	BADU 21-81/33 G	3~ Y/Δ 400/230 V	3.00 kW
238.1340.337	BADU 21-81/34 G	3~ Y/Δ 690/400 V	4.00 kW



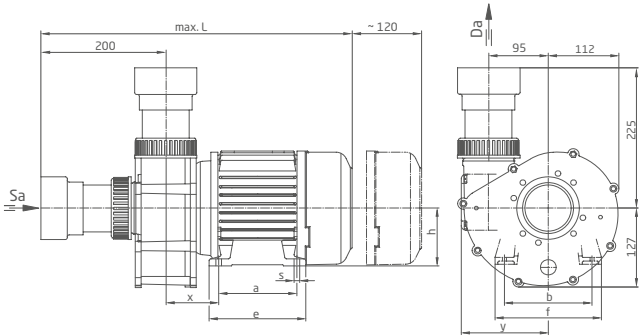
Performance



^ Total dynamic head H (m) / Flow rate Q (m³/h) >

Dimensions

Detailed dimensions available on request or at badu.de



Type		a	b	e	f	h	s	x	y	L
BADU 21-81/31R G	1~	125	140	155	170	90	9	85	139	498
BADU 21-81/31R G	3~	125	140	155	170	90	9	100	139	522
BADU 21-81/32R G	1~	125	140	155	170	90	9	100	139	513
BADU 21-81/32R G	3~	140	160	176	195	100	12	107	155	547
BADU 21-81/33 G	3~	140	160	176	195	100	12	107	155	547
BADU 21-81/33 G	1~	140	160	176	195	100	12	107	154	567
BADU 21-81/33 G	3~	140	160	176	195	100	12	107	155	547
BADU 21-81/34 G	3~	140	160	176	195	100	12	107	155	564