BADU®

2021

Pool technologies and solutions ...

swimming pool
private > premium

badu.de


YOUR OWN POOL
FOR THE SIMPLE
JOYS OF LIFE.

HELLO

Finally your own pool. Enjoy the sun.

Leave your troubles behind. Relax in refreshingly cool water.

BADU PREMIUM offers powerful, high-quality products for the highest demands.

For those who know what they want - a pool planned and implemented by competent specialists.

Focus on the essentials - an enviable quality of life ...

CONTENTS

Current BADU news ...

speck-pumps.com YouTube.com facebook.com twitter.com

SOPHISTICATION

FIVE STAR POOL TECHNOLOGY: IN PERFORMANCE, QUALITY AND DESIGN.

Since the early 1960s the BADU brand has been linked
with everything that brings a pool to life:
pumps, counter swim units and massage nozzles.
Filter units, solar panels, regulators, control units, backwash units etc.
The well-known BADU quality is what brings them all together.
If you're looking for the best, then BADU is absolutely right for you.

BADU GREEN
Enjoy your pool with a clear conscience whilst saving energy and protecting the environment. The efficient and intelligent BADU GREEN products use innovative technology for maximum sustainability in production and operation. The aim is always to run your swimming pool as environmentally and economically friendly as possible.

BADU JET Primavera Deluxe
Submerged counter swim unit made completely from stainless steel.
Page 96

GET STARTED

IT'S SO SIMPLE WITH BADU.

How long have you been dreaming of your own pool?

Make your dreams come true – it's much easier than you think.

The modern BADU technology takes away all of the risks

and problems that are often associated with a private pool.

Enjoy your pool - the place where you can relax and workout

that you never want to give up.

HOW A POOL WORKS

The heart of your pool is the circulation pump (1). It generates a water cycle for fresh and hygenic water. Pool water is pumped into the filter (2) via a skimmer or floor drainage and is cleaned mechanically. The clean water flows back into the pool. An automatic backwash valve (3) is integrated in order to control the intake of pool water and clean water and to clean the filter.

On its way back into the pool, the clean, filtered water can also be bypassed through the solar panel (4). It is warmed by the sun and then led back into the pool. If the water temperature is sufficient the bypass can even be separated from the water cycle fully automatically.

Counter swim units provide flowing water. There are systems which hang over (5) the pool wall or ones which are built-in (6) to the pool wall. A power supply is all you need for both installation types. The pump installed draws water from the pool and returns it directly to the pool via jet nozzles.

BADU POOL TECHNOLOGY

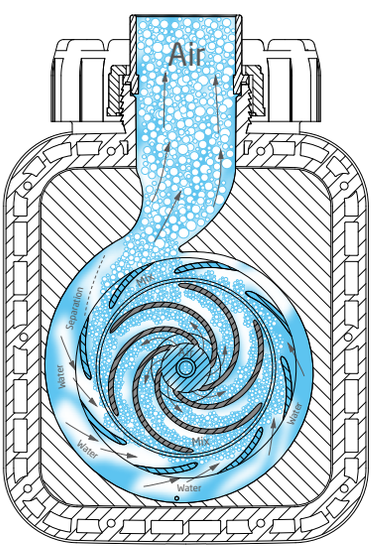
1. Circulation pump
2. Filter (all manufacturers and brands)
3. Automatic backwash valve
4. Solar panel
5. Overhang counter swim unit
6. Submerged counter swim unit

HOW A PUMP WORKS

Today centrifugal pumps are normally used in private and public pools and swimming baths. There are two different models:

Self-priming pumps can be placed above or below the water level. Following initial filling, they can draw in water independently and are able to pump the air found in the pipe out of the water cycle.

Non-self-priming pumps can only be placed below the water level. The air drawn in, for example if the pump is used to operate a pool cleaner, leads to a breakdown in the pump's performance and the pump has to be refilled.



Functional diagram
Cross section of the BADU Delta, self-priming, centrifugal pump.

BADU® POOL PRODUCTS

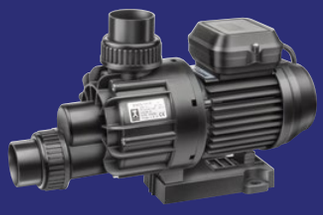
BADU Bronze
Performance: 7-30 m³/h
Pool size: 30-150 m³

BADU 93
Performance: 30-110 m³/h
Pool size: 120 -500 m³

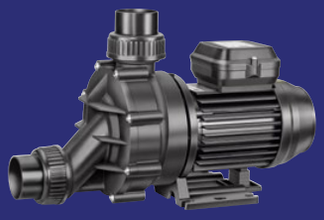
BADU FA
Performance: 35-45 m³/h
Pool size: 90-180 m³

BADU 42
Performance: 2-12 m³/h
Pool size: 10-60 m³

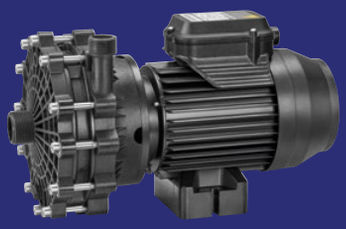
BADU 43
Performance: 15-32 m³/h
Pool size: 30-150 m³



BADU 44
Performance: 1-12 m³/h
Pool size: 1-30 m³



BADU 45
Performance: 7-13 m³/h
Pool size: 3-30 m³



BADU 73
Performance: 2-5 m³/h
Pool size: 10-30 m³

Further information regarding these pool products can be found on badu.de.
Scan the QR code and you will be taken directly to the product information page.

POOL TECHNOLOGY

BADU Fact checker

Well informed for the right decision: The BADU fact checker. Relevant pump features at a glance and in direct comparison.

Comparison parameters	BADU	Alpha	Magna	Gamma	Delta
Flow rate Q max. (m³/h)		15	17	37	36
Power input P_1 (kW)		0.34-0.65	0.50-0.97	0.50-2.00	0.50-1.40
Power output P_2 (kW)		0.18-0.45	0.30-0.65	0.30-1.50	0.30-1.00
Single phase 1~ 230 V*)		●	●	●	●
Three-phase 3~ 400/230 V*)		●	●	●	●
LED transparent lid		○	○	○	●
Lid opening device		●	●	●	●
Separable strainer basket		○	○	○	●
Glue socket d (mm)		50	–	75/63/50	63/50
Glue socket materials		ABS	–	PVC-U	PVC-U
Connection options		V	2/1,5" IG	V/2" IG	V
Replacement alternative	BADU	Delta	Prime, Gamma	Prime	Prime, Gamma
GS symbol		●	●	●	●
Catalogue page		14	16	18	20

*) Special voltages on request.
V - Union
IG - Inner thread







Delta-MK	Prime	Prime	Profi	Profi-MK	EasyFit	Resort
35	25	50	52	50	50	115
0.50-1.40	0.50-1.40	1.85-3.45	1.03-2.92	1.03-2.92	0.58-2.92	1.77-6.15
0.30-1.00	0.30-1.00	1.30-2.60	0.75-2.20	0.75-2.20	0.30-2.20	1.50-5.50
●	●	●	●	●	●	○
●	●	●	●	●	●	●
●	○	○	●	●	○	○
●	●	●	●	●	●	●
●	○	○	●	●	●	○
63/50	–	90/75	75/63	75/63	75/63/50	110/90/75
PVC-U	–	ABS	PVC-U	PVC-U	ABS	ABS
V	2/1,5" IG	V	V	V	V/IG	V
Profi-MK	Gamma	–	Delta	Delta-MK	–	–
●	●	●	●	●	●	●
22	24	26	28	30	32	36

Circulation pumps, self-priming

Self-priming circulation pumps are suitable for all applications.

These pumps can also be placed above the water level and are therefore suitable for all above ground and built-in pools. Available in 60 performance varieties, these BADU PREMIUM pumps are suitable for pool volumes of up to 500 m³.

Product overview

BADU Alpha
Performance: 4-11 m³/h
Pool size: 10-60 m³
Page 14

BADU Magna
Performance: 8-14 m³/h
Pool size: 30-90 m³
Page 16

BADU Gamma
Performance: 7-32 m³/h
Pool size: 30-150 m³
Page 18

BADU Delta
Performance: 8-28 m³/h
Pool size: 30-150 m³
Page 20

BADU Delta-MK
Performance: 8-27 m³/h
Pool size: 30-150 m³
Page 22

BADU Prime
Performance: 7-20 m³/h
Pool size: 30-120 m³
Page 24

BADU Prime
Performance: 25-48 m³/h
Pool size: 90-210 m³
Page 26

BADU Profi
Performance: 22-48 m³/h
Pool size: 90-210 m³
Page 28

BADU Profi-MK
Performance: 18-44 m³/h
Pool size: 90-210 m³
Page 30

BADU EasyFit/ connection sets
Performance: 9-45 m³/h
Pool size: 30-210 m³
Page 32

BADU Resort
Performance: 30-110 m³/h
Pool size: 120-500 m³
Page 36

The pumps pictured above can be used for pool water with a salt concentration of up to 0.5 %, i.e. 5 g/l.
For higher salt concentrations please contact us.

BADU® Alpha

New standard for small pools - optimised like never before.

Field of application

Swimming pool water circulation through a filter system.
The pump can be installed max. 2 m above or 3 m below water level.

Design

Monoblock-type pump with integrated strainer tank.
The bellow-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.

Strainer tank capacity ..... approx. 1.0 l
Strainer basket mesh size ..... approx. 2.8 x 2.8 mm

Materials used

Pump casing ..... PP
Housing cover ..... PP GF 30
Impeller ..... PPE GF 30
Strainer basket ..... PP
Lid ..... PC, transparent/ABS
Glue sockets ..... ABS
Mechanical seal ..... carbon/ceramic/NBR
Screws ..... stainless steel
Elastomers ..... NBR

Technical data at 50 Hz	BADU Alpha	6	8	10	12
Inlet Sa/outlet connection Da		Special union with glue socket d = 50 included in delivery.			
Rec. inlet/outlet pipe, PVC pipe, d[4]		50/50	50/50	50/50	50/50
Power input P_1/output P_2 [1] (kW)	1~ 230 V	0.34/0.18	0.40/0.25	0.61/0.40	0.72/0.45
Rated current (A)	1~ 230 V	1.70	2.00	2.70	3.20
Net weight (kg)	1~	7.00	7.00	8.00	8.00

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

Article no	Description	Voltage	Power output P_2	Net RRP	Gross RRP[7]
210.4060.038	BADU Alpha 6	1~ 230 V	0.18 kW	**355.17 €**	422.65 €
210.4080.038	BADU Alpha 8	1~ 230 V	0.25 kW	**368.84 €**	438.92 €
210.4100.038	BADU Alpha 10	1~ 230 V	0.40 kW	**382.49 €**	455.16 €
210.4120.038	BADU Alpha 12	1~ 230 V	0.45 kW	**395.31 €**	470.42 €

Universal opening device included in delivery. See page 130.

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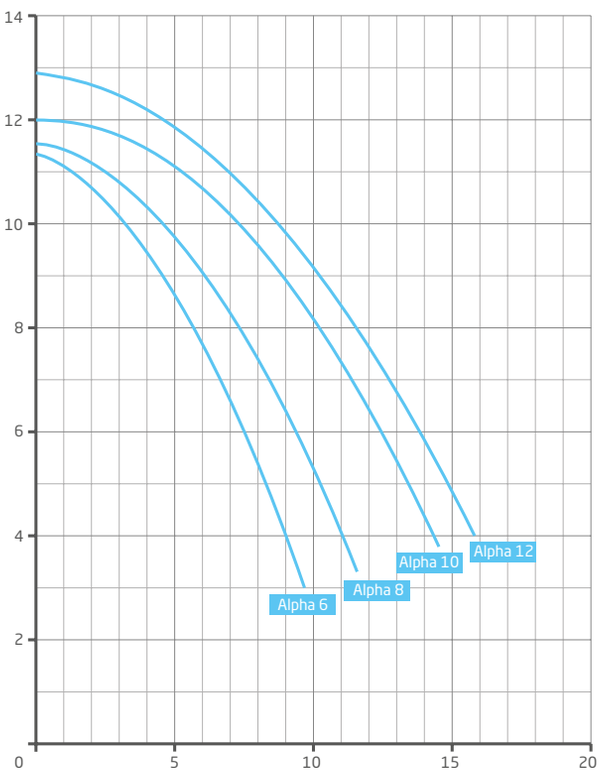
GS geprüfte Sicherheit

4-11 m³/h

10-60 m³

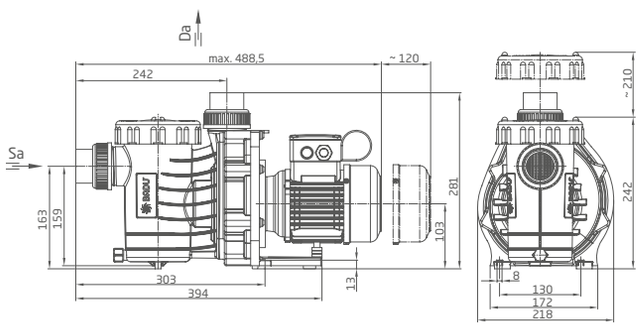
Performance



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

Dimensions

Detailed dimensions available on request or at badu.de



BADU® Magna

Tried and tested for constant operation with high performance and flexibility. For medium-size and above ground pools or smaller swimming ponds.

Field of application

Swimming pool water circulation through a filter system.
The pump can be installed max. 3 m above or below water level.

Design

Monoblock-type pump with integrated strainer tank.
The bellow-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.

Strainer tank capacity ..... approx. 3 l
Strainer basket mesh size ..... approx. 3.2 x 2.6 mm

Materials used

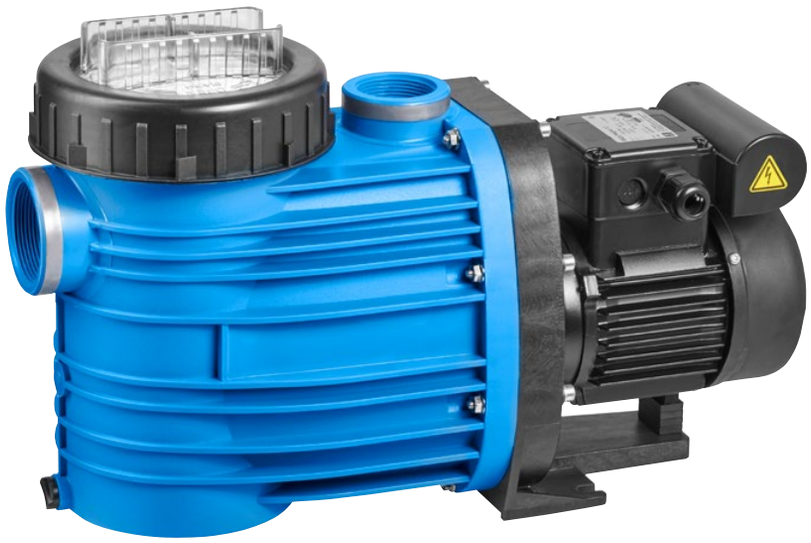
Pump casing ..... PP TV 20
Intermediate housing ..... PP TV 40
Gland housing ..... PP TV 40
Diffuser ..... PP TV 40
Impeller ..... PPE GF 30
Strainer basket ..... PP
Lid ..... PC, transparent/PA 66 GF 30
Mechanical seal ..... carbon/ceramic/NBR
Screws ..... galvanised steel
Elastomers ..... NBR

Technical data at 50 Hz	BADU Magna	8	12	14
Inlet Sa/outlet connection Da Rp[2)]		2/1½	2/1½	2/1½
Rec. inlet/outlet pipe, PVC pipe, d[4)]		50/50	50/50	63/50
Power input P_1/output P_2 [1)] (kW)	1~ 230 V	0.57/0.30	0.72/0.45	0.97/0.65
Rated current (A)	1~ 230 V	2.60	3.20	4.70
Net weight (kg)	1~	9.00	9.00	11.50

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

Article no	Description	Voltage	Power output P_2	Net RRP	Gross RRP[7)]
219.0088.038	BADU Magna 8	1~ 230 V	0.30 kW	**385.91 €**	459.23 €
219.0128.038	BADU Magna 12	1~ 230 V	0.45 kW	**414.08 €**	492.76 €
219.0148.038	BADU Magna 14	1~ 230 V	0.65 kW	**440.55 €**	524.25 €

Sickel opening device included in delivery. See page 130.



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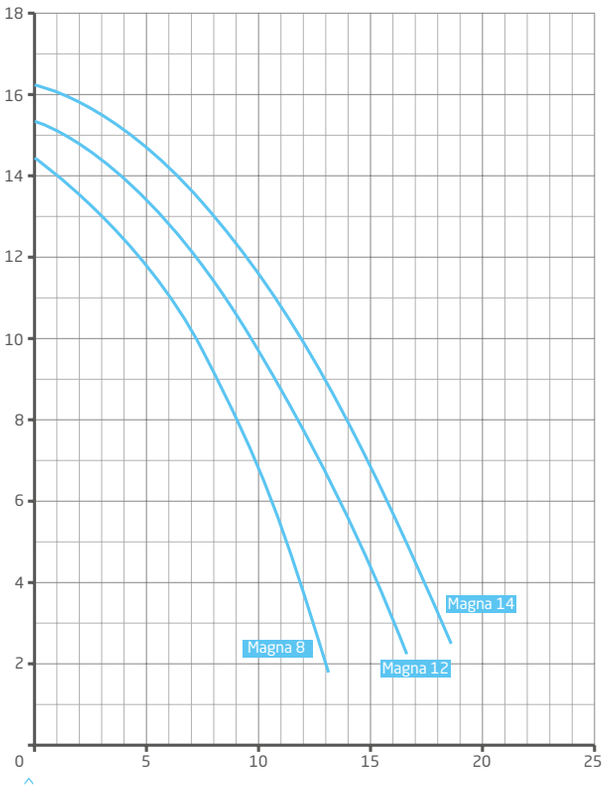
8-14 m³/h

30-90 m³

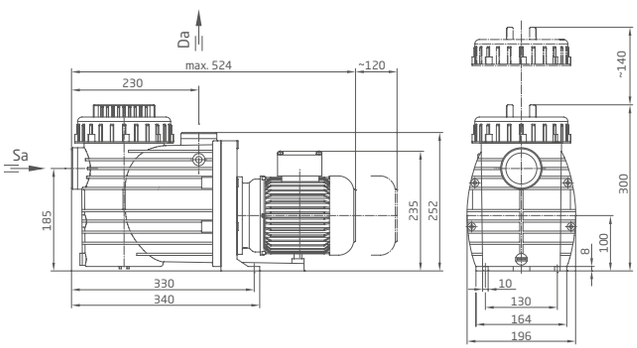
Performance



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

Dimensions

Detailed dimensions available on request or at badu.de



BADU® Gamma

The new bestseller based on our BADU Prime. Equipped with inner and outer threads. Efficient, modern, thought out ...

Field of application

Swimming pool water circulation through a filter system.
The pump can be installed max. 3 m above or below water level.

Design

Monoblock-type pump with integrated strainer tank.
The bellow-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.

Strainer tank capacity ..... approx. 3 l
Strainer basket mesh size ..... approx. 3.2 x 2.6 mm

Materials used

Pump casing ..... PP GF 30
Intermediate housing ..... PP TV 40
Gland housing ..... PP TV 40
Diffuser ..... PA 66 GF 30/PP GF 30
Impeller ..... PP GF 30
Strainer basket ..... PP
Lid ..... PC, transparent/PA 66 GF 30
Mechanical seal ..... carbon/ceramic/NBR
Screws ..... stainless steel
Unions/glue sockets ..... ABS/PVC-U
Elastomers ..... NBR/Viton

Technical data at 50 Hz	BADU Gamma	7	11	15	20	23	29	32
Inlet Sa/outlet connection Da d[4)]	Rp 2	50/50	63/63	63/63	63/63	63/63	75/75	75/75
Rec. inlet/outlet pipe, PVC pipe, d[4)]		50/50	63/63	63/63	63/63	63/63	75/75	75/75
Power input P_1/output P_2 [1)] (kW)	1~ 230 V	0.54/0.30	0.65/0.45	0.87/0.55	1.10/0.75	1.40/1.00	1.65/1.30	2.00/1.50
Rated current (A)	1~ 230 V	2.40	2.90	4.00	5.20	6.70	7.80	8.90
Power input P_1/output P_2 [1)] (kW)	3~ Y/Δ 400/230 V	0.51/0.30	0.63/0.45	0.81/0.55	1.00/0.75	1.26/1.00	1.56/1.30	1.77/1.50
Rated current (A)	3~ Y/Δ 400/230 V	0.95/1.65	1.25/2.15	1.55/2.70	1.95/3.40	2.25/3.90	2.80/4.85	3.30/5.72
Net weight (kg)	1~/3~	10.00/9.00	10.00/10.00	12.00/11.00	13.00/13.00	16.50/17.00	17.00/20.00	18.00/20.00

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

Article no	Description	Voltage	Power output P_2	Net RRP	Gross RRP[7)]
210.5070.038	BADU Gamma 7	1~ 230 V	0.30 kW	**620.69 €**	738.62 €
210.5110.038	BADU Gamma 11	1~ 230 V	0.45 kW	**665.95 €**	792.48 €
210.5150.038	BADU Gamma 15	1~ 230 V	0.55 kW	**692.41 €**	823.97 €
210.5200.038	BADU Gamma 20	1~ 230 V	0.75 kW	**736.81 €**	876.80 €
210.5230.038	BADU Gamma 23	1~ 230 V	1.00 kW	**797.43 €**	948.94 €
210.5290.038	BADU Gamma 29	1~ 230 V	1.30 kW	**989.53 €**	1,177.54 €
210.5320.038	BADU Gamma 32	1~ 230 V	1.50 kW	**999.77 €**	1,189.73 €
210.5070.037	BADU Gamma 7	3~ Y/Δ 400/230 V	0.30 kW	**593.37 €**	706.11 €
210.5110.037	BADU Gamma 11	3~ Y/Δ 400/230 V	0.45 kW	**629.24 €**	748.80 €
210.5150.037	BADU Gamma 15	3~ Y/Δ 400/230 V	0.55 kW	**683.03 €**	812.81 €
210.5200.037	BADU Gamma 20	3~ Y/Δ 400/230 V	0.75 kW	**701.81 €**	835.15 €
210.5230.037	BADU Gamma 23	3~ Y/Δ 400/230 V	1.00 kW	**716.32 €**	852.42 €
210.5290.037	BADU Gamma 29	3~ Y/Δ 400/230 V	1.30 kW	**945.13 €**	1,124.70 €
210.5320.037	BADU Gamma 32	3~ Y/Δ 400/230 V	1.50 kW	**1,025.39 €**	1,220.21 €

Universal opening device included in delivery. See page 130.

With inner and outer threads

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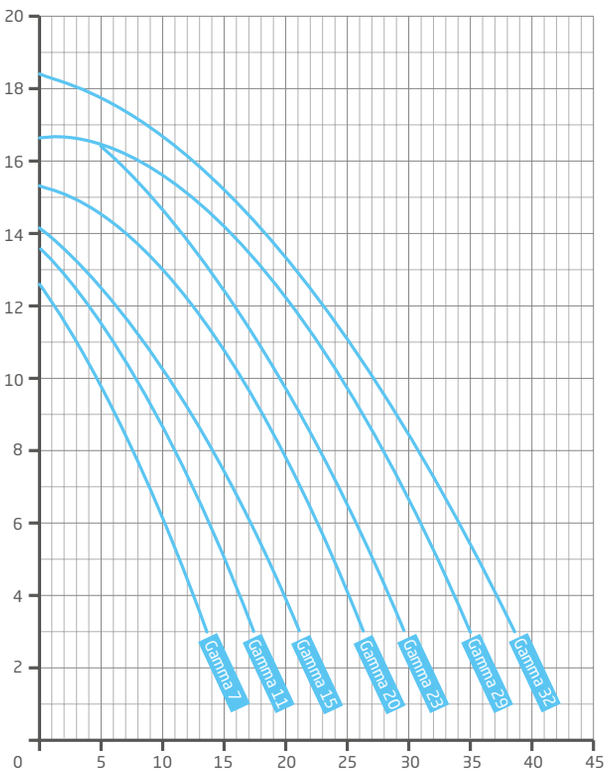
GS geprüfte Sicherheit

7-32 m³/h

30-150 m³

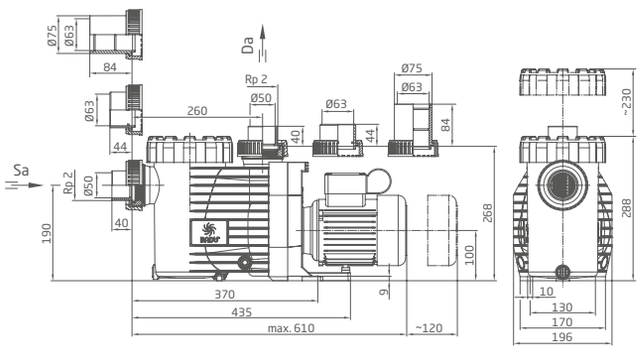
Performance



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

Dimensions

Detailed dimensions available on request or at badu.de



BADU® Delta

New high-class standard for ambitious projects. High-quality filter circulation pumps for professionals.

Field of application

Swimming pool water circulation through a filter system.
The pump can be installed max. 3 m above or below water level.

Design

Monoblock-type pump with integrated strainer tank.
The bellow-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.

Strainer tank capacity ..... approx. 4 l
Strainer basket mesh size ..... approx 2.2 x 2.2 mm

Materials used

Pump casing ..... PP GF 30
Intermediate housing ..... PP GF 30
Gland housing ..... PP GF 30
Unions/glue sockets ..... ABS/PVC-U
Diffuser ..... PP GF 30
Impeller ..... PPE GF 30
Strainer basket ..... PP
Lid ..... PC, transparent/PA 66 GF 30
Mechanical seal ..... carbon/ceramic/NBR
Screws ..... stainless steel
Elastomers ..... NBR/viton

Technical data at 50 Hz	BADU Delta	9	13	17	22	28
Inlet Sa/outlet connection Da d[4]		50/50	63/63	63/63	63/63	63/63
Rec. inlet/outlet pipe, PVC pipe, d[4]		50/50	63/63	63/63	63/63	75/75
Power input P_1/output P_2 [1] (kW)	1~ 230 V	0.50/0.30	0.69/0.45	0.87/0.55	1.10/0.75	1.40/1.00
Rated current (A)	1~ 230 V	2.40	3.00	4.00	5.20	6.70
Power input P_1/output P_2 [1] (kW)	3~ Y/Δ 400/230 V	0.44/0.30	0.63/0.45	0.75/0.55	0.93/0.75	1.26/1.00
Rated current (A)	3~ Y/Δ 400/230 V	0.95/1.65	1.25/2.15	1.55/2.70	1.95/3.40	2.25/3.90
Net weight (kg)	1~/3~	13.00/12.00	13.00/13.00	15.00/15.00	16.00/15.00	19.00/19.00

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

Article no	Description	Voltage	Power output P_2	Net RRP	Gross RRP[7]
210.3070.038	BADU Delta 9	1~ 230 V	0.30 kW	**629.24 €**	748.80 €
210.3120.038	BADU Delta 13	1~ 230 V	0.45 kW	**653.15 €**	777.25 €
210.3170.038	BADU Delta 17	1~ 230 V	0.55 kW	**674.49 €**	802.64 €
210.3220.038	BADU Delta 22	1~ 230 V	0.75 kW	**791.45 €**	941.83 €
210.3280.038	BADU Delta 28	1~ 230 V	1.00 kW	**980.15 €**	1,166.38 €
210.3070.037	BADU Delta 9	3~ Y/Δ 400/230 V	0.30 kW	**629.24 €**	748.80 €
210.3120.037	BADU Delta 13	3~ Y/Δ 400/230 V	0.45 kW	**653.15 €**	777.25 €
210.3170.037	BADU Delta 17	3~ Y/Δ 400/230 V	0.55 kW	**674.49 €**	802.64 €
210.3220.037	BADU Delta 22	3~ Y/Δ 400/230 V	0.75 kW	**791.45 €**	941.83 €
210.3280.037	BADU Delta 28	3~ Y/Δ 400/230 V	1.00 kW	**980.15 €**	1,166.38 €

Universal opening device included in delivery. See page 130.

Transparent lid with integrated LED lighting

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ID 0000021507

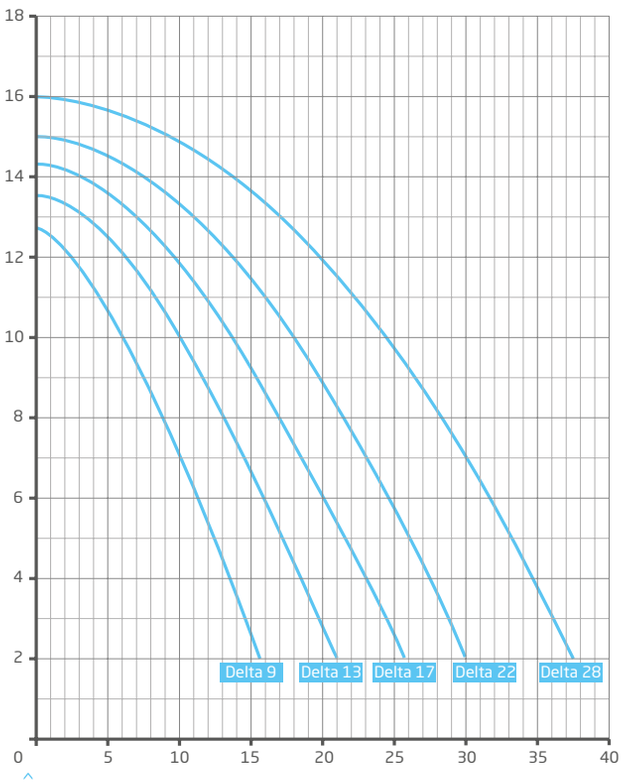
GS geprüfte Sicherheit

PATENT

8-28 m³/h

30-150 m³

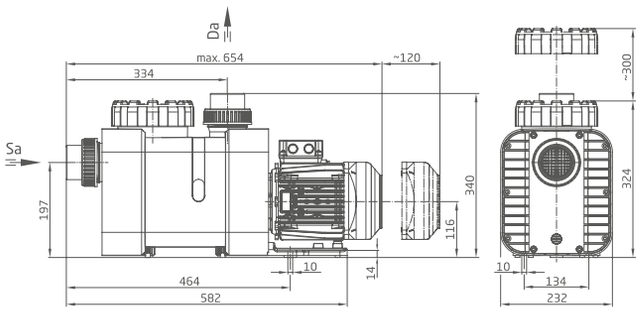
Performance



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

Dimensions

Detailed dimensions available on request or at badu.de



BADU® Delta-MK

Sealless pump for salt water pools. Extension of the quiet BADU Delta range.

Fields of application

Swimming pool water circulation through a filter system.
The pump can be installed max. 1.5 m above or 3 m below water level.

Design

Monoblock-type pump with integrated strainer tank.
Motor/pump shaft has no contact with the pool water providing complete electrical separation.

Strainer tank capacity ..... approx. 4 l
Strainer basket mesh size ..... approx. 2.2 x 2.2 mm

Also available with alternative material combinations for chemical applications.

Materials used

Pump casing ..... PP GF 30
Intermediate housing/gland housing ..... PP GF 30
Lid for gland houisng ..... PP GF 10
Can ..... PP GF 30
Intermediate flange ..... PP GF 30
Pump feet ..... ABS GF 20
Unions/glue sockets ..... ABS/PVC-U
Diffuser ..... PP GF 30
Impeller ..... PPE GF 30
Strainer basket ..... PP
Lid ..... PC, transparent/PA 66 GF 30
Slide bearing ..... SiC/SiC
Elastomers ..... NBR
Screws ..... stainless steel

Technical data at 50 Hz	BADU Delta-MK	8	12	16	20	27
Inlet Sa/outlet connection Da d[4]		50/50	63/63	63/63	63/63	63/63
Rec. inlet/outlet pipe, PVC pipe, d[4]		50/50	63/63	63/63	63/63	75/75
Power input P_1/output P_2 [1] (kW)	1~ 230 V	0.50/0.30	0.65/0.45	0.97/0.65	1.10/0.75	1.40/1.00
Rated current (A)	1~ 230 V	2.60	3.20	4.70	5.20	6.70
Power input P_1/output P_2 [1] (kW)	3~ Y/Δ 400/230 V	0.50/0.30	0.63/0.45	0.97/0.65	0.93/0.75	1.26/1.00
Rated current (A)	3~ Y/Δ 400/230 V	1.00/1.75	1.25/2.15	1.75/3.00	1.95/3.40	2.25/3.90
Net weight (kg)	1~/3~	21.00/20.00	21.00/20.00	22.00/22.00	24.00/23.00	27.00/28.00

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

Article no	Description	Voltage	Power output P_2	Net RRP	Gross RRP[7]
210.3080.338	BADU Delta-MK 8	1~ 230 V	0.30 kW	**945.13 €**	1,124.70 €
210.3120.338	BADU Delta-MK 12	1~ 230 V	0.45 kW	**951.96 €**	1,132.83 €
210.3160.338	BADU Delta-MK 16	1~ 230 V	0.65 kW	**963.92 €**	1,147.06 €
210.3200.338	BADU Delta-MK 20	1~ 230 V	0.75 kW	**1,016.00 €**	1,209.04 €
210.3270.338	BADU Delta-MK 27	1~ 230 V	1.00 kW	**1,076.61 €**	1,281.17 €
210.3080.337	BADU Delta-MK 8	3~ Y/Δ 400/230 V	0.30 kW	**934.04 €**	1,111.51 €
210.3120.337	BADU Delta-MK 12	3~ Y/Δ 400/230 V	0.45 kW	**937.45 €**	1,115.57 €
210.3160.337	BADU Delta-MK 16	3~ Y/Δ 400/230 V	0.65 kW	**955.39 €**	1,136.91 €
210.3200.337	BADU Delta-MK 20	3~ Y/Δ 400/230 V	0.75 kW	**1,012.59 €**	1,204.98 €
210.3270.337	BADU Delta-MK 27	3~ Y/Δ 400/230 V	1.00 kW	**1,081.75 €**	1,287.28 €

Universal opening device included in delivery. See page 130.

Transparent lid with integrated LED lighting

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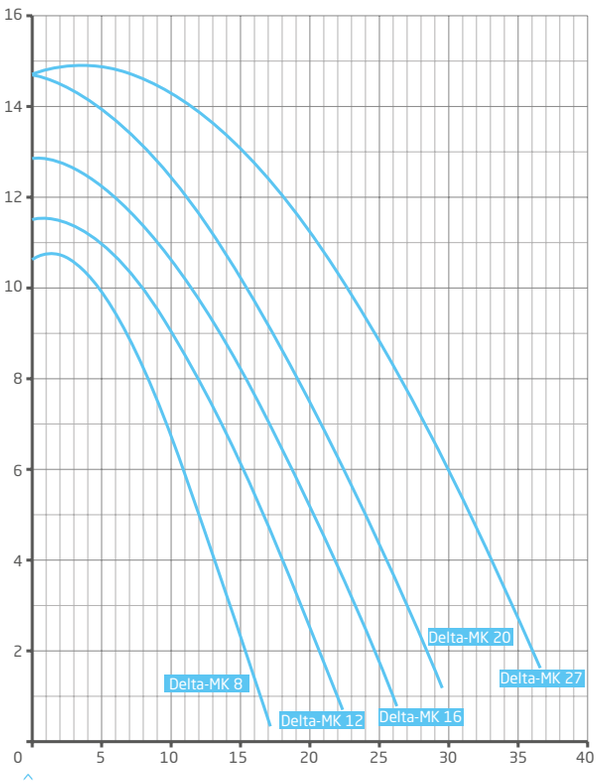
GS geprüfte Sicherheit
Pending approval.

PATENT

8-27 m³/h

30-150 m³

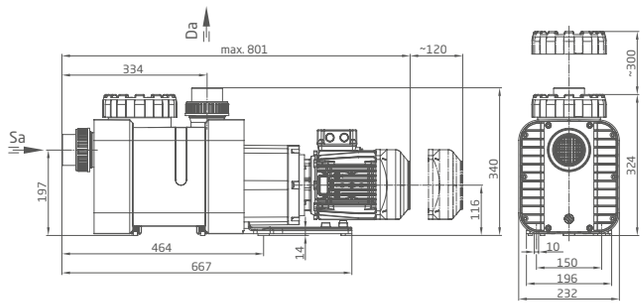
Performance



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

Dimensions

Detailed dimensions available on request or at badu.de



BADU® Prime

Established and reliable.
Premium circulation pump.

Field of application
Swimming pool water circulation through a filter system.
The pump can be installed max. 3 m above or below water level.

Design
Monoblock-type pump with integrated strainer tank.
The bellow-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.
Strainer tank capacity ..... approx. 3 l
Strainer basket mesh size ..... approx. 3.2 x 2.6 mm

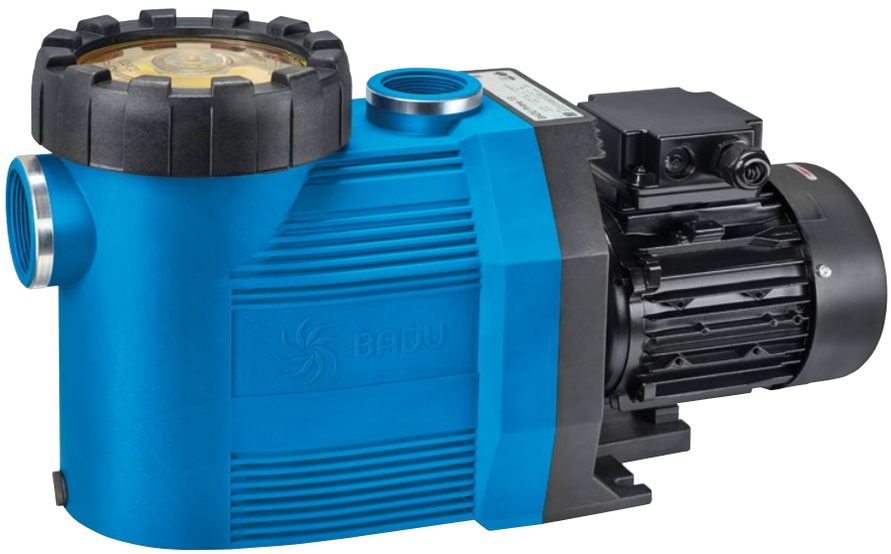
Materials used
Pump casing ..... PP GF 30
Intermediate housing ..... PP TV 40
Gland housing ..... PP TV 40
Diffuser ..... PA 66 GF 30/PP GF 30
Impeller ..... PP GF 30
Strainer basket ..... PP
Lid ..... PC, transparent/PA 66 GF 30
Mechanical seal ..... carbon/ceramic/NBR
Screws ..... stainless steel
Elastomers ..... NBR/viton

Technical data at 50 Hz	BADU Prime	7	11	13	15	20
Inlet Sa/outlet connection Da Rp[2)]		1½/1½	1½/1½	2/1½	2/1½	2/1½
Rec. inlet/outlet pipe, PVC pipe, d[4)]		50/50	50/50	63/50	63/50	63/63
Power input P_1/output P_2 [1)] (kW)	1~ 230 V	0.54/0.30	0.65/0.45	0.87/0.55	1.10/0.75	1.40/1.00
Rated current (A)	1~ 230 V	2.40	2.90	4.00	5.20	6.70
Power input P_1/output P_2 [1)] (kW)	3~ Y/Δ 400/230 V	0.51/0.30	0.63/0.45	0.81/0.55	1.00/0.75	1.26/1.00
Rated current (A)	3~ Y/Δ 400/230 V	0.95/1.65	1.25/2.15	1.55/2.70	1.95/3.40	2.25/3.90
Net weight (kg)	1~/3~	10.00/9.00	10.00/10.00	11.00/11.50	13.00/12.00	16.50/13.50

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

Article no	Description	Voltage	Power output P_2	Net RRP	Gross RRP[7)]
219.0078.038	BADU Prime 7	1~ 230 V	0.30 kW	**604,48 €**	719,33 €
219.0118.038	BADU Prime 11	1~ 230 V	0.45 kW	**647,16 €**	770,12 €
219.0138.038	BADU Prime 13	1~ 230 V	0.55 kW	**667,65 €**	794,50 €
219.0158.038	BADU Prime 15	1~ 230 V	0.75 kW	**722,29 €**	859,53 €
219.0208.038	BADU Prime 20	1~ 230 V	1.00 kW	**772,67 €**	919,48 €
219.0078.037	BADU Prime 7	3~ Y/Δ 400/230 V	0.30 kW	**578,87 €**	688,86 €
219.0118.037	BADU Prime 11	3~ Y/Δ 400/230 V	0.45 kW	**611,31 €**	727,46 €
219.0138.037	BADU Prime 13	3~ Y/Δ 400/230 V	0.55 kW	**654,85 €**	779,27 €
219.0158.037	BADU Prime 15	3~ Y/Δ 400/230 V	0.75 kW	**679,61 €**	808,74 €
219.0208.037	BADU Prime 20	3~ Y/Δ 400/230 V	1.00 kW	**691,56 €**	822,96 €

Universal opening device included in delivery. See page 130.



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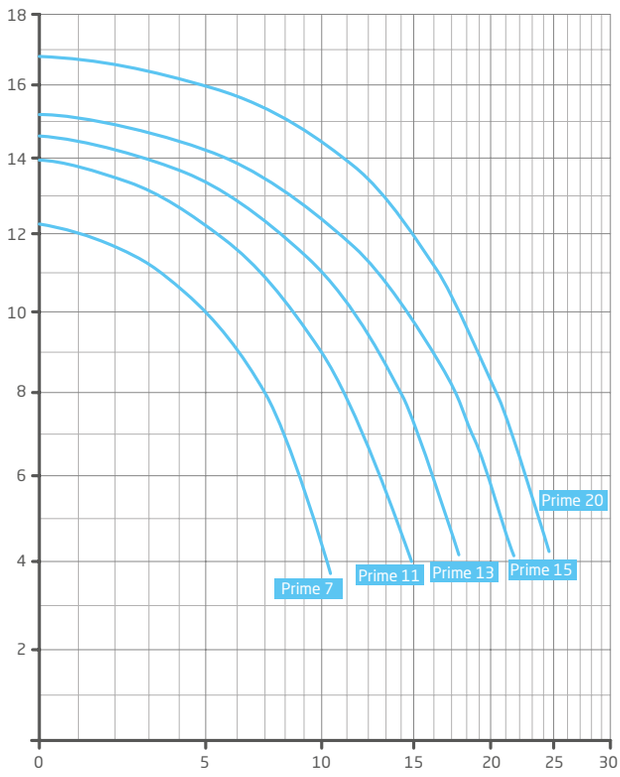
GS geprüfte Sicherheit

7-20 m³/h

30-120 m³

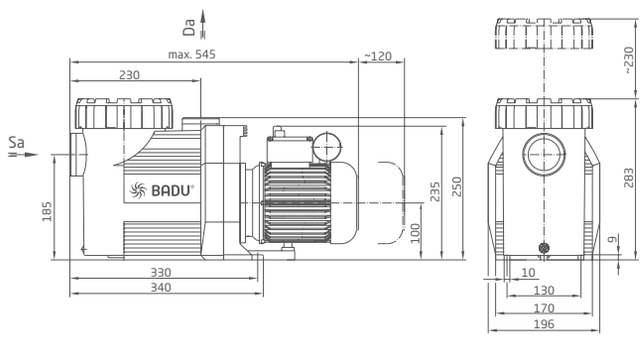
Performance



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

Dimensions

Detailed dimensions available on request or at badu.de



BADU® Prime

Highly efficient. With a motor suitable for use with a frequency converter. For large pools, swimming baths and solar panel units.

Field of application

Swimming pool water circulation through a filter system.
The pump can be installed max. 3 m above or below water level.

Design

Monoblock-type pump with integrated strainer tank.
The bellow-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.

Strainer tank capacity ..... approx. 6 l
Strainer basket mesh size ..... approx. 3.0 x 2.8 mm

Materials used

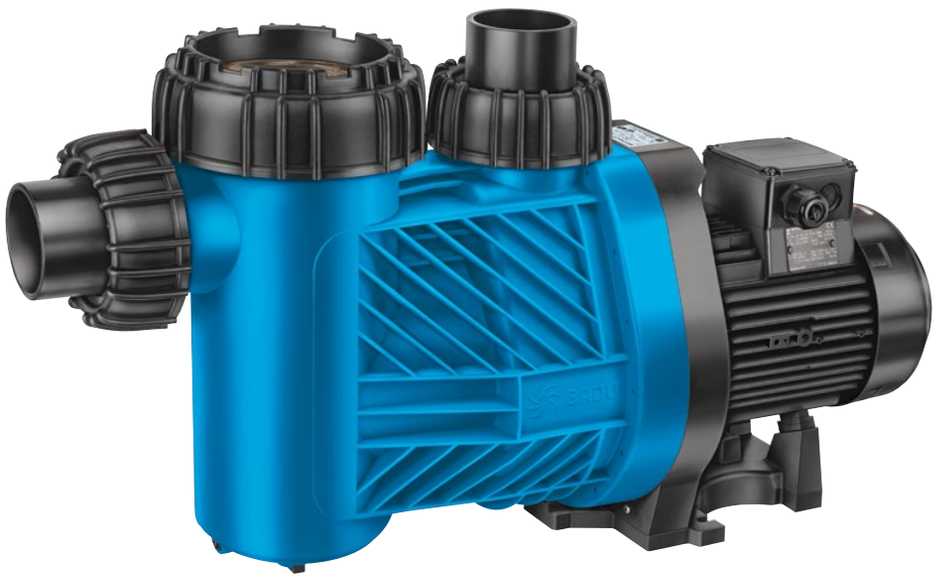
Pump casing ..... PP GF 30
Intermediate housing ..... PP GF 30
Gland housing ..... PP TV 40
Diffuser ..... PP GF 30
Impeller ..... PPE GF 30
Strainer basket ..... PP
Lid ..... PC, transparent/PA 66 GF 30
Glue sockets ..... ABS
Mechanical seal ..... carbon/ceramic/NBR
Screws ..... stainless steel
Elastomers ..... NBR/viton

Technical data at 50 Hz	BADU Prime	25	30	40	48
Inlet Sa/outlet connection Da d[2]		75/75	75/75	90/90	90/90
Rec. inlet/outlet pipe, PVC pipe, d[4]		75/75	75/75	90/90	110/110
Power input P_1/output P_2 [1] (kW)	1~ 230 V	1.85/1.30	2.00/1.50	2.90/2.20	3.45/2.60
Rated current (A)	1~ 230 V	7.70	8.80	13.00	15.00
Power input P_1/output P_2 [1] (kW)	3~ Y/Δ 400/230 V	1.55/1.30	1.77/1.50	2.55/2.20	3.00/2.60
Rated current (A)	3~ Y/Δ 400/230 V	2.95/5.10	3.30/5.72	4.60/8.00	5.50/9.50
Net weight (kg)	1~/3~	25.00/27.00	24.00/27.00	26.00/34.00	36.00/34.00

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

Article no	Description	Voltage	Power output P_2	Net RRP	Gross RRP[7]
219.0258.038	BADU Prime 25	1~ 230 V	1.30 kW	**1,078.32 €**	1,283.20 €
219.0308.038	BADU Prime 30	1~ 230 V	1.50 kW	**1,174.80 €**	1,398.01 €
219.0408.038	BADU Prime 40	1~ 230 V	2.20 kW	**1,375.44 €**	1,636.77 €
219.0488.038	BADU Prime 48	1~ 230 V	2.60 kW	**1,791.24 €**	2,131.58 €
219.0258.037	BADU Prime 25	3~ Y/Δ 400/230 V	1.30 kW	**995.51 €**	1,184.66 €
219.0308.037	BADU Prime 30	3~ Y/Δ 400/230 V	1.50 kW	**1,094.55 €**	1,302.51 €
219.0408.037	BADU Prime 40	3~ Y/Δ 400/230 V	2.20 kW	**1,269.57 €**	1,510.79 €
219.0488.037	BADU Prime 48	3~ Y/Δ 400/230 V	2.60 kW	**1,405.32 €**	1,672.33 €

Three-way opening device included in delivery. See page 130.



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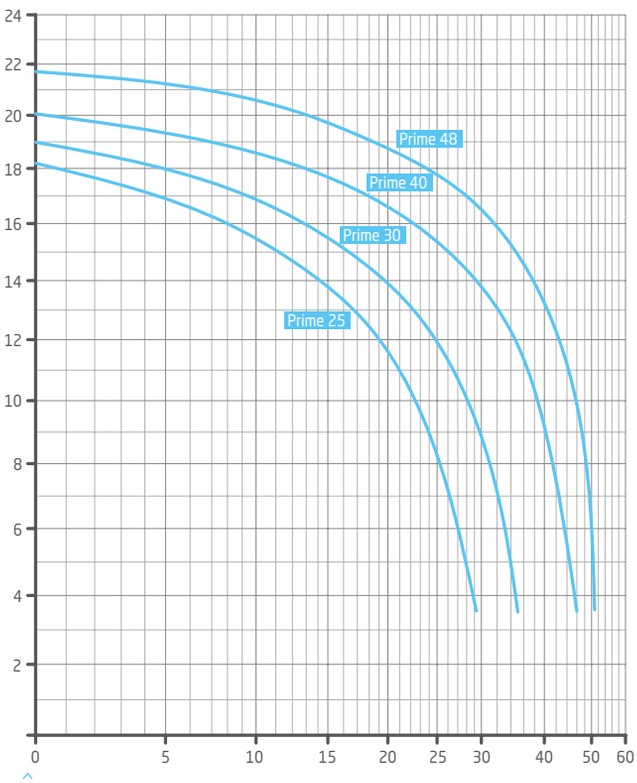
25–48 m³/h

90–210 m³

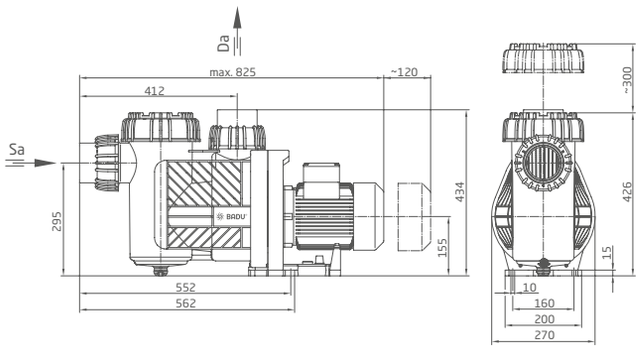
Performance



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

Dimensions

Detailed dimensions available on request or at badu.de



BADU® Profi

Exclusive premium pump. Maximum efficiency and quiet. For large pools and swimming baths. For the highest demands.

Field of application

Swimming pool water circulation through a filter system.
The pump can be installed max. 3 m above or below water level.

Design

Monoblock-type pump with integrated strainer tank.
The bellow-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.

Strainer tank capacity ..... approx. 4 l
Strainer basket mesh size ..... approx. 2.2 x 2.2 mm

Materials used

Pump casing ..... PP GF 30
Intermediate housing ..... PP GF 30
Gland housing ..... PP GF 30
Volute casing ..... PP
Diffuser ..... PA 66 GF 30/PP GF 30
Impeller ..... PP GF 30
Strainer basket ..... PP
Lid ..... PC, transparent/PA 66 GF 30
Mechanical seal ..... carbon/ceramic/NBR
Screws ..... stainless steel
Glue sockets ..... PVC-U
Elastomers ..... NBR/viton

Technical data at 50 Hz	BADU Profi	22	26	32	38	48
Inlet Sa/outlet connection Da d_{outer} . DN_{inner} [4]		75/75 . 63/63	75/75 . 63/63	75/75 . 63/63	75/75 . 63/63	75/75 . 63/63
Rec. inlet/outlet pipe, PVC pipe, d[4]		63/63	75/75	75/75	90/90	110/110
Power input P_1/output P_2 [1] (kW)	1~ 230 V	1.03/0.75	1.29/1.00	1.68/1.30	2.31/1.80	2.92/2.20
Rated current (A)	1~ 230 V	4.95	6.20	8.00	11.88	14.40
Power input P_1/output P_2 [1] (kW)	3~ Y/Δ 400/230 V	0.90/0.75	1.20/1.00	1.54/1.30	2.10/1.80	2.54/2.20
Rated current (A)	3~ Y/Δ 400/230 V	1.80/3.10	2.55/4.40	3.00/5.20	3.85/6.70	4.95/8.60
Net weight (kg)	1~/3~	20.00/22.00	21.00/23.00	22.00/24.00	29.00/27.00	29.00/31.00

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

Article no	Description	Voltage	Power output P_2	Net RRP	Gross RRP[7]
210.2220.038	BADU Profi 22	1~ 230 V	0.75 kW	**776.95 €**	924.57 €
210.2260.038	BADU Profi 26	1~ 230 V	1.00 kW	**961.36 €**	1,144.02 €
210.2320.038	BADU Profi 32	1~ 230 V	1.30 kW	**1,084.31 €**	1,290.33 €
210.2380.038	BADU Profi 38	1~ 230 V	1.80 kW	**1,190.17 €**	1,416.30 €
210.2480.038	BADU Profi 48	1~ 230 V	2.20 kW	**1,372.03 €**	1,632.72 €
210.2220.037	BADU Profi 22	3~ Y/Δ 400/230 V	0.75 kW	**776.95 €**	924.57 €
210.2260.037	BADU Profi 26	3~ Y/Δ 400/230 V	1.00 kW	**961.36 €**	1,144.02 €
210.2320.037	BADU Profi 32	3~ Y/Δ 400/230 V	1.30 kW	**1,084.31 €**	1,290.33 €
210.2380.037	BADU Profi 38	3~ Y/Δ 400/230 V	1.80 kW	**1,190.17 €**	1,416.30 €
210.2480.037	BADU Profi 48	3~ Y/Δ 400/230 V	2.20 kW	**1,372.03 €**	1,632.72 €

Universal opening device included in delivery. See page 130.

BADU Profi pumps are only available to buy from qualified swimming pool retailers ...
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Transparent lid with integrated LED lighting

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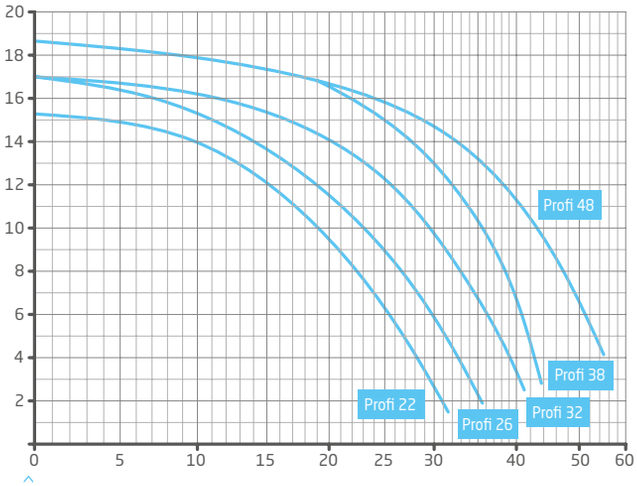
GS geprüfte Sicherheit

PATENT

22-48 m³/h

90-210 m³

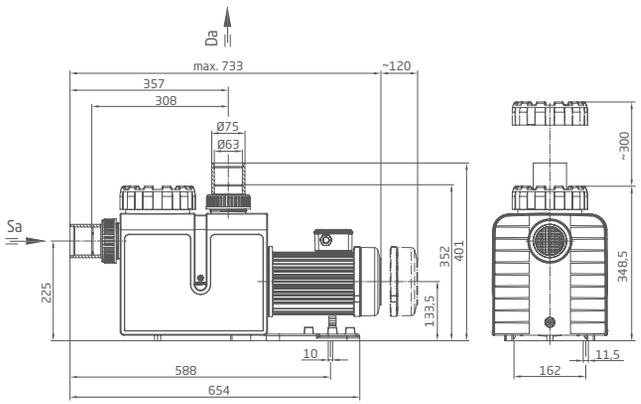
Performance



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

Dimensions

Detailed dimensions available on request or at badu.de



BADU® Profi-MK

Sealless pump for the pool. Unique, reliable and uncompromising.

Field of application

Swimming pool water circulation through a filter system.
The pump can be installed max. 1.5 m above or 3 m below water level.

Design

Monoblock-type pump with integrated strainer tank.
Motor/pump shaft has no contact with the pool water providing complete electrical separation.

Strainer tank capacity ..... approx. 4 l
Strainer basket mesh size ..... approx. 3.2 x 2.6 mm

Also available with alternative material combinations for chemical applications.

Materials used

Pump housing ..... PP GF 30
Intermediate housing/gland housing ..... PP GF 30
Lid for gland houisng ..... PP
Can ..... PP GF 30
Intermediate flange ..... PP GF 30
Volute casing ..... PP
Diffuser ..... PA 66 GF 30/PP GF 30
Impeller ..... PP GF 30
Strainer basket ..... PP
Lid ..... PC, transparent/PA 66 GF 30
Slide bearing ..... SiC/SiC
Screws ..... stainless steel
Elastomers ..... NBR
Glue sockets ..... PVC-U

Technical data at 50 Hz	BADU Profi-MK	18	22	28	34	44
Inlet Sa/outlet connection Da d_{outer} . DN_{inner} [4]		75/75 . 63/63	75/75 . 63/63	75/75 . 63/63	75/75 . 63/63	75/75 . 63/63
Rec. inlet/outlet pipe, PVC pipe, d[4]		63/63	63/63	75/75	90/90	110/110
Power input P_1/output P_2 [1] (kW)	1~ 230 V	1.03/0.75	1.29/1.00	1.68/1.30	2.31/1.80	2.92/2.20
Rated current (A)	1~ 230 V	4.95	6.20	8.00	11.88	14.40
Power input P_1/output P_2 [1] (kW)	3~ Y/Δ 400/230 V	0.90/0.75	1.20/1.00	1.54/1.30	2.10/1.80	2.54/2.20
Rated current (A)	3~ Y/Δ 400/230 V	1.80/3.10	2.55/4.40	3.00/5.20	3.85/6.70	4.95/8.60
Net weight (kg)	1~/3~	24.00/26.00	27.00/26.00	27.00/28.00	32.00/34.00	34.00/34.00

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

Article no	Description	Voltage	Power output P_2	Net RRP	Gross RRP[7]
210.2220.238	BADU Profi-MK 18	1~ 230 V	0.75 kW	**1,094.55 €**	1,302.51 €
210.2260.238	BADU Profi-MK 22	1~ 230 V	1.00 kW	**1,136.39 €**	1,352.30 €
210.2320.238	BADU Profi-MK 28	1~ 230 V	1.30 kW	**1,207.25 €**	1,436.63 €
210.2380.238	BADU Profi-MK 34	1~ 230 V	1.80 kW	**1,234.57 €**	1,469.14 €
210.2480.238	BADU Profi-MK 44	1~ 230 V	2.20 kW	**1,503.51 €**	1,789.18 €
210.2220.237	BADU Profi-MK 18	3~ Y/Δ 400/230 V	0.75 kW	**1,094.55 €**	1,302.51 €
210.2260.237	BADU Profi-MK 22	3~ Y/Δ 400/230 V	1.00 kW	**1,136.39 €**	1,352.30 €
210.2320.237	BADU Profi-MK 28	3~ Y/Δ 400/230 V	1.30 kW	**1,207.25 €**	1,436.63 €
210.2380.237	BADU Profi-MK 34	3~ Y/Δ 400/230 V	1.80 kW	**1,234.57 €**	1,469.14 €
210.2480.237	BADU Profi-MK 44	3~ Y/Δ 400/230 V	2.20 kW	**1,503.51 €**	1,789.18 €

Universal opening device included in delivery. See page 130.

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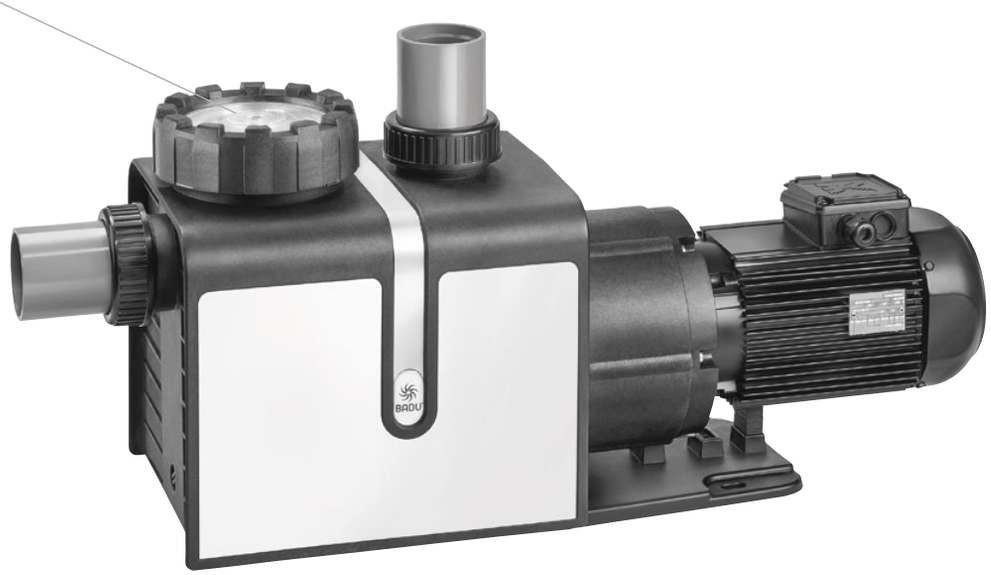
Transparent lid with integrated LED lighting



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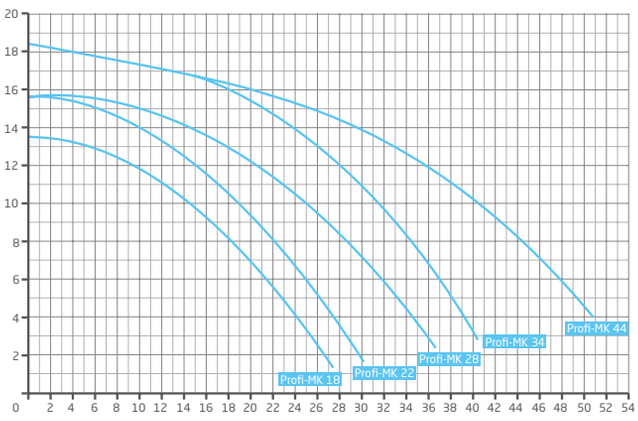
GS geprüfte Sicherheit

PATENT

18-44 m³/h

90-210 m³

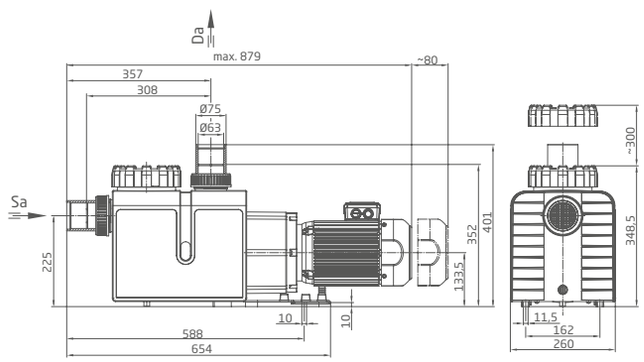
Performance



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

Dimensions

Detailed dimensions available on request or at badu.de



BADU® EasyFit

The champion of flexibility with 6 various connection sets. For use in practically every filter unit, regardless of the manufacturer.

Field of application

Swimming pool water circulation through a filter system.
The pump can be installed max. 3 m above or below water level.

Design

Monoblock-type pump with integrated strainer tank.
The bellow-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.

Strainer tank capacity ..... approx. 3 l
Strainer basket mesh size ..... approx. 3.2 x 2.6 mm

Materials used

Pump casing ..... PP GF 30
Intermediate housing ..... PP GF 30
Gland housing ..... PP TV 40
Diffuser ..... PA 66 GF 30/PP TV 40/PP GF 30
Impeller ..... PPE GF 30/PP GF 30
Strainer basket ..... PP
Lid ..... PC, transparent/PP GF 30
Glue sockets ..... ABS
Mechanical seal ..... carbon/ceramic/NBR
Screws ..... stainless steel
Elastomers ..... NBR/viton

Technical data at 50 Hz	BADU EasyFit	9	12	15	18	24	29	36	45
Inlet Sa/outlet connection Da d[2]		50/50	63/50	63/63	63/63	63/63	63/63	75/75	75/75
Rec. inlet/outlet pipe, PVC pipe, d[4]		63/50	63/50	63/63	63/63	63/63	75/63	75/75	75/75
Power input P_1/output P_2 [1] (kW)	1~ 230 V	0.58/0.30	0.69/0.45	0.97/0.65	1.20/0.80	1.45/1.00	1.70/1.30	2.20/1.80	2.92/2.20
Rated current (A)	1~ 230 V	2.60	3.20	4.70	5.30	6.40	7.40	10.00	14.40
Power input P_1/output P_2 [1] (kW)	3~ Y/Δ 400/230 V	0.55/0.30	0.68/0.45	0.95/0.65	1.10/0.80	1.32/1.00	1.65/1.30	2.10/1.80	2.54/2.20
Rated current (A)	3~ Y/Δ 400/230 V	1.00/1.75	1.25/2.15	1.75/3.00	2.10/3.60	2.90/5.02	3.20/5.54	3.85/6.70	4.95/8.60
Net weight (kg)	1~/3~	10.50/13.00	11.50/12.00	12.00/12.50	13.00/14.50	19.00/17.00	17.50/15.50	21.00/19.00	27.00/29.00

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

Article no	Description	Voltage	Power output P_2	Net RRP	Gross RRP[7]
207.6100.038	BADU EasyFit 9	1~ 230 V	0.30 kW	**489.08 €**	582.01 €
207.6140.038	BADU EasyFit 12	1~ 230 V	0.45 kW	**544.25 €**	647.66 €
207.6170.038	BADU EasyFit 15	1~ 230 V	0.65 kW	**570.20 €**	678.54 €
207.6200.038	BADU EasyFit 18	1~ 230 V	0.80 kW	**632.65 €**	752.85 €
207.6260.038	BADU EasyFit 24	1~ 230 V	1.00 kW	**796.49 €**	947.82 €
207.6320.038	BADU EasyFit 29	1~ 230 V	1.30 kW	**877.60 €**	1,044.34 €
207.6380.038	BADU EasyFit 36	1~ 230 V	1.80 kW	**1,026.04 €**	1,220.99 €
207.6400.038	BADU EasyFit 45	1~ 230 V	2.20 kW	**1,240.96 €**	1,476.74 €
207.6100.037	BADU EasyFit 9	3~ Y/Δ 400/230 V	0.30 kW	**528.84 €**	629.32 €
207.6140.037	BADU EasyFit 12	3~ Y/Δ 400/230 V	0.45 kW	**604.27 €**	719.08 €
207.6170.037	BADU EasyFit 15	3~ Y/Δ 400/230 V	0.65 kW	**614.80 €**	731.61 €
207.6200.037	BADU EasyFit 18	3~ Y/Δ 400/230 V	0.80 kW	**674.01 €**	802.07 €
207.6260.037	BADU EasyFit 24	3~ Y/Δ 400/230 V	1.00 kW	**820.01 €**	975.81 €
207.6320.037	BADU EasyFit 29	3~ Y/Δ 400/230 V	1.30 kW	**901.12 €**	1,072.33 €
207.6380.037	BADU EasyFit 36	3~ Y/Δ 400/230 V	1.80 kW	**1,040.63 €**	1,238.35 €
207.6400.037	BADU EasyFit 45	3~ Y/Δ 400/230 V	2.20 kW	**1,399.13 €**	1,664.96 €

Universal opening device included in delivery. See page 130.

Standard connection included in delivery. For further connection variations please see the following page >

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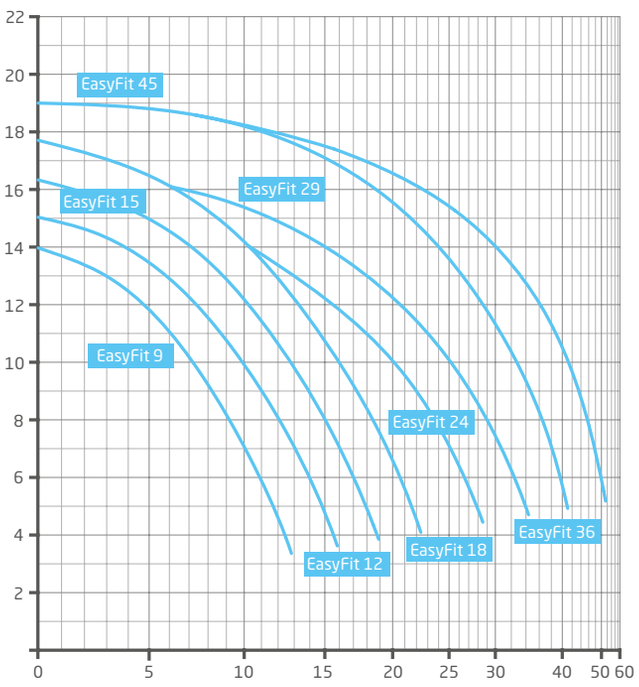
Scan the QR code for the BADU EasyFit product video ...

PATENT

9-45 m³/h

30-210 m³

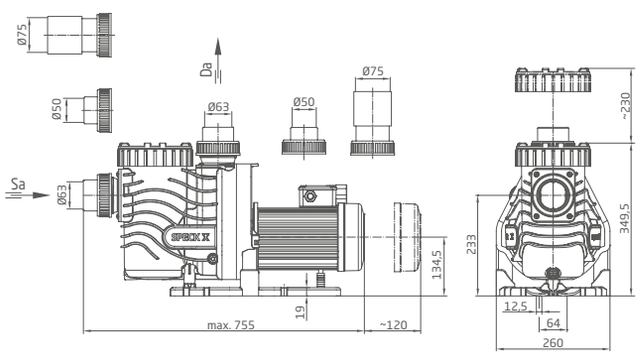
Performance



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

Dimensions

Detailed dimensions available on request or at badu.de



BADU® EasyFit connection sets

Even more flexibility for the BADU EasyFit. Connection sets now for 8 foreign ranges.

With the BADU EasyFit the often time-consuming task of installing a new circulation pump into an existing filter unit is a thing of the past. The self-priming pump fits with six different connection sets and flexible pump feet in almost every unit, regardless of the manufacturer.

Flexible connections regardless of the manufacturer
6 adaptable connection sets.

Easy connection to existing pipes
Height adjustable pump feet reduce the assembly effort.

The flexible and cost-effective solution
Saves time when converting an existing unit and saves on storage.

Article no	Description	Net RRP	Gross RRP[7)]
290.1472.105	Connection set 1 compatible with Pentair® "Ultra-Flow®" pumps[*)]	**35,11 €**	41,78 €
290.1472.106	Connection set 2 compatible with Pentair® "WhisperFlo®" pumps[*)]	**35,11 €**	41,78 €
290.1472.107	Connection set 3 compatible with Hayward® "Super Pump" pumps[*)]	**35,11 €**	41,78 €
290.1472.108	Connection set 4 compatible with Sta-Rite® "5P2R" pumps[*)]	**35,11 €**	41,78 €
290.1472.111	Connection set 5 compatible with Astral "Super Sprint", Astral "Victoria Plus" and Wilo "Filtec FBS" pumps[*)]	**35,11 €**	41,78 €
290.1472.112	Connection set 6 compatible with Sta-Rite® "5MPR (Dyna-Glas™)" pumps[*)]	**35,11 €**	41,78 €

[*)] among other brands of pump.
Pentair®, Sta-Rite®, Dyna-Glas™, WhisperFlo® and Ultra-Flow® are trademarks and/or registered trademarks of Pentair Water Pool and Spa, Inc. and/or its affiliated companies.
Hayward® and Super Pump® are trademarks of Hayward Industries, Inc.

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Scan the QR code for the BADU EasyFit product video ...

- S Standard connection
- 1 Connection set 1*)
- 2 Connection set 2*)
- 3 Connection set 3*)
- 4 Connection set 4*)
- 5 Connection set 5
- 6 Connection set 6

*) Rp 1½ and Rp 2 included in each set.

BADU® Resort

Cost saving pump for large units. Light and powerful. For wellness oases, hotel swimming pools or special pools.

Field of application

Swimming pool water circulation through a filter system.
The pump can be installed max. 3 m above or below water level.

Design

Monoblock-type pump with integrated strainer tank.
The bellow-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.

Strainer tank capacity ..... approx. 10 l
Strainer basket mesh size ..... approx. 3.4 x 3.2 mm

For glue sockets made from PVC suitable for BADU Resort 50 to BADU Resort 110 please see page 133.

Materials used

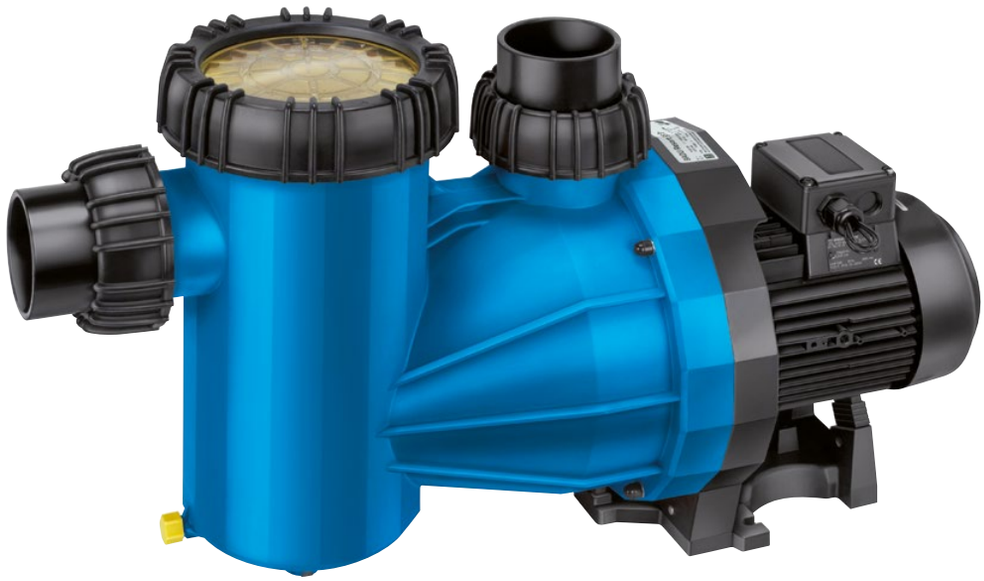
Pump casing ..... PP GF 30
Intermediate housing ..... PP TV 40
Gland housing ..... PP TV 40
Diffuser ..... PP GF 30
Impeller ..... PPE GF 30/PP GF 30
Impeller nut ..... PP GF 30
Strainer basket ..... PP
Lid ..... PC, transparent/PA 66 GF 30
Glue sockets ..... ABS
Mechanical seal ..... carbon/ceramic/NBR
Screws ..... stainless steel
Elastomers ..... NBR/viton

Technical data at 50 Hz	BADU Resort	30	40	45	50	55	60	70	80	110
Inlet Sa/outlet connection Da d[2)]		75/75	90/90	90/90	110/110	110/110	110/110	110/110	110/110	110/110
Rec. inlet/outlet pipe, PVC pipe, d[4)]		75/75	90/90	90/90	110/110	110/110	110/110	110/110	140/140	160/140
Power input P_1/output P_2 [1)] (kW)	3~ Y/Δ 400/230 V	1.77/1.50	2.55/2.20	3.00/2.60	3.45/3.00	-/-	3.00/2.60	3.45/3.00	-/-	-/-
Rated current (A)	3~ Y/Δ 400/230 V	3.30/5.72	4.60/8.00	5.50/9.50	6.20/10.70	-/-	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	-/-	-/-	4.55/4.00	6.15/5.50
Rated current (A)	3~ Y/Δ 690/400 V	-/-	-/-	-/-	-/-	4.60/7.90	-/-	-/-	4.60/7.90	6.00/10.40
Net weight (kg)	3~	23.00	26.00	40.00	38.00	34.00	35.50	36.00	39.00	41.00

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

Article no	Description	Voltage	Power output P_2	Net RRP	Gross RRP[7)]
219.5308.037	BADU Resort 30	3~ Y/Δ 400/230 V	1.50 kW	**1,364.35 €**	1,623.58 €
219.5408.037	BADU Resort 40	3~ Y/Δ 400/230 V	2.20 kW	**1,518.88 €**	1,807.47 €
219.5458.037	BADU Resort 45	3~ Y/Δ 400/230 V	2.60 kW	**1,554.73 €**	1,850.13 €
219.5508.037	BADU Resort 50	3~ Y/Δ 400/230 V	3.00 kW	**1,718.67 €**	2,045.22 €
219.5558.037	BADU Resort 55	3~ Y/Δ 690/400 V	4.00 kW	**2,126.77 €**	2,530.86 €
219.5608.037	BADU Resort 60	3~ Y/Δ 400/230 V	2.60 kW	**1,635.84 €**	1,946.65 €
219.5708.037	BADU Resort 70	3~ Y/Δ 400/230 V	3.00 kW	**1,803.19 €**	2,145.80 €
219.5808.037	BADU Resort 80	3~ Y/Δ 690/400 V	4.00 kW	**2,160.92 €**	2,571.49 €
219.5118.037	BADU Resort 110	3~ Y/Δ 690/400 V	5.50 kW	**2,446.93 €**	2,911.85 €

Three-way opening device included in delivery. See page 130.



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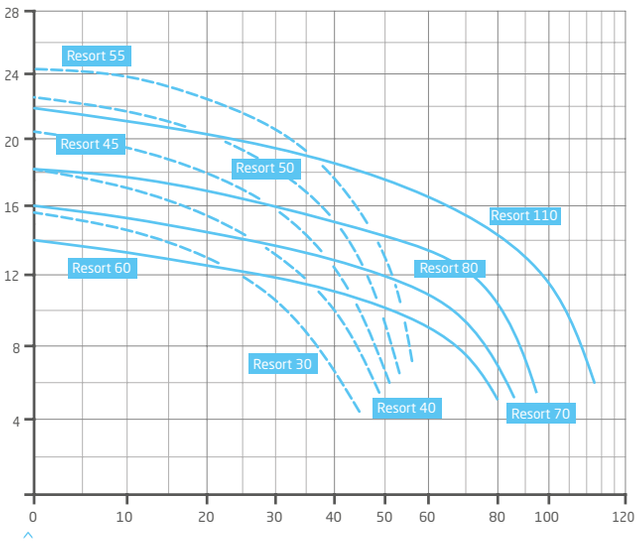
30-110 m³/h

120-500 m³

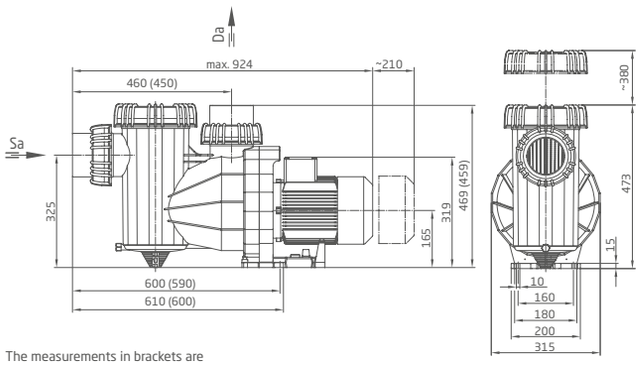
Performance



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

Dimensions

Detailed dimensions available on request or at badu.de



The measurements in brackets are
for BADU Resort 30 to BADU Resort 45.

BADU Fact checker

Well informed for the right decision: The BADU fact checker. Relevant pump features at a glance and in direct comparison.

Comparison parameters	BADU	Alpha Eco Soft	Eco Soft	EasyFit Eco VS	Gamma Eco VS	Prime Eco VS
Flow rate Q max. (m³/h)		20	26	30	30	28
Power input P_1 (kW)		0.04-0.75	0.06-1.10	0.03-1.40	0.03-1.40	0.03-1.40
Power output P_2 (kW)		0.02-0.50	0.03-0.75	0.01-1.10	0.01-1.10	0.01-1.10
Single phase 1~ 230 V*)		●	●	●	●	●
Three-phase 3~ 400/230 V*)		○	○	○	○	○
LED transparent lid		○	○	○	○	○
Lid opening device		●	●	●	●	●
Separable strainer basket		○	○	●	○	○
Glue socket d (mm)		50	63/50	63	63	–
Glue socket materials		ABS	ABS	ABS	PVC-U	–
Connection options		V	V	V/IG	V/2" IG	2/1,5" IG
Motor control		D	D, A	D	D	D
Motor performance P (%)		5-100	5-100	5-100	5-100	5-100
Motor speed n (rpm)		–	–	600-3000	600-3000	600-3000
Replacement alternative	BADU	Eco Soft	Gamma Eco VS	Gamma Eco VS	Delta Eco VS	Gamma Eco VS
GS symbol		●	●	●	●	●
Catalogue page		42	44	46	48	50

*) Special voltages on request.
V - Union
IG - Inner thread
D - Digital potential-free
A - Analogue 0-10 V and 4-20 mA
R - RS485







Bronze Eco VS	Delta Eco VS	Delta-MK Eco VS	Profi Eco VS	Profi-MK Eco VS	Eco Flex	Variostar
28	37	37	38	37	45	65
0.03-1.40	0.03-1.40	0.48-1.80	0.09-1.80	0.56-1.80	0.08-2.60	0.07-1.15
0.01-1.10	0.01-1.10	0.37-1.40	0.05-1.40	0.48-1.40	0.05-2.20	0.03-0.85
●	●	●	●	●	●	●
○	○	○	○	○	○	○
○	●	●	●	●	○	○
●	●	●	●	●	●	○
○	●	●	●	●	○	○
–	63	63	75/63	75/63	90	90
–	PVC-U	PVC-U	PVC-U	PVC-U	ABS	ABS
2" IG	V	V	V	V	V	V
D	D	D	D	D	D, A, R	D, A
5-100	5-100	–	–	–	5-100	–
600-3000	600-3000	2000-3000	1000-3000	2000-3000	600-3000	600-1800
Prime Eco VS	Profi Eco VS	Profi MK Eco VS	Delta Eco VS	Delta-MK Eco VS	–	–
●	●	●	●	●	○	○
52	54	56	58	60	62	64

BADU GREEN

Circulation pumps, energy-saving

Self-priming and non-self-priming circulation pumps are often the heart of a pool.
Therefore the efficiency of your pump significantly determines
the economic efficiency of your whole swimming pool unit
and not least our environment and natural resources.
That's what BADU GREEN products from our BADU PREMIUM range stand for ...

Product overview

BADU Alpha Eco Soft
Performance: 20 m³/h
Pool size: 30-90 m³
Page 42

BADU Eco Soft
Performance: 25 m³/h
Pool size: 30-90 m³
Page 44

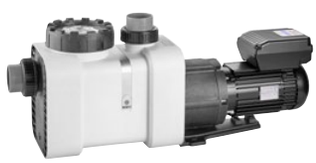
BADU EasyFit Eco VS
Performance: 28 m³/h
Pool size: 30-90 m³
Page 46

BADU Gamma Eco VS
Performance: 28 m³/h
Pool size: 30-120 m³
Page 48

BADU Prime Eco VS
Performance: 28 m³/h
Pool size: 30-90 m³
Page 50

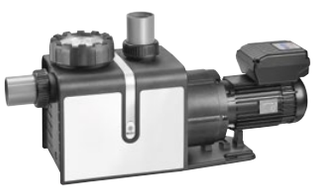
BADU Bronze Eco VS
Performance: 28 m³/h
Pool size: 30-90 m³
Page 52

BADU Delta Eco VS
Performance: 30 m³/h
Pool size: 30-150 m³
Page 54



BADU Delta-MK Eco VS
Performance: 30 m³/h
Pool size: 30-150 m³
Page 56

BADU Profi Eco VS
Performance: 37 m³/h
Pool size: 30-180 m³
Page 58



BADU Profi-MK Eco VS
Performance: 33 m³/h
Pool size: 30-180 m³
Page 60

NEW

BADU Eco Flex
Performance: 40 m³/h
Pool size: 30-200 m³
Page 62

BADU Variostar
Performance: 65 m³/h
Pool size: 30-200 m³
Page 64

The pumps pictured above can be used for pool water with a salt concentration of up to 0.5 %, i.e. 5 g/l.
For higher salt concentrations please contact us.

BADU Eco Check App – optimise your BADU GREEN circulation pump simply and easily. See page 137.

BADU® Alpha Eco Soft

New standard for small pools with variable speed motor. The most efficient pump ever.

Field of application

Swimming pool water circulation through a filter system.
The pump can be installed max. 2 m above or 3 m below water level.

Design

Monoblock-type pump with integrated strainer tank.
The bellow-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.
Strainer tank capacity ..... approx. 1.0 l
Strainer basket mesh size ..... approx. 2.8 x 2.8 mm

Materials used

Pump casing ..... PP
Housing cover ..... PP GF 30
Impeller ..... PPE GF 30
Strainer basket ..... PP
Lid ..... PC, transparent/ABS
Glue sockets ..... ABS
Mechanical seal ..... carbon/ceramic/NBR
Screws ..... stainless steel
Elastomers ..... NBR

Technical data at 50/60 Hz	BADU Alpha Eco Soft	
Inlet Sa/outlet connection Da d[4)]		50/50
Rec. inlet/outlet pipe, PVC pipe, d[4)]		50/50
Power input P_1/output P_2 [1)] (kW)	1~ 230 V	0.04-0.75/0.02-0.50
Rated current (A)	1~ 230 V	0.30-3.20
Net weight (kg)	1~	7.00

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

Article no	Description	Voltage	Power output P_2	Net RRP	Gross RRP[7)]
210.4000.038	BADU Alpha Eco Soft	1~ 230 V	0.50 kW	**815.36 €**	970.28 €

Universal opening device included in delivery. See page 130.

< Noise-optimised motor.
Ideal use of the motor capacity

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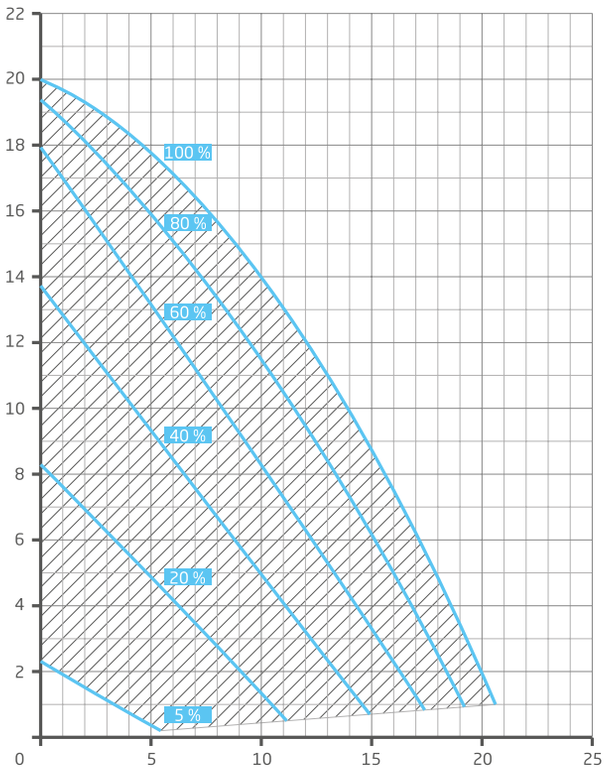
D | 20 m³/h | 30-90 m³

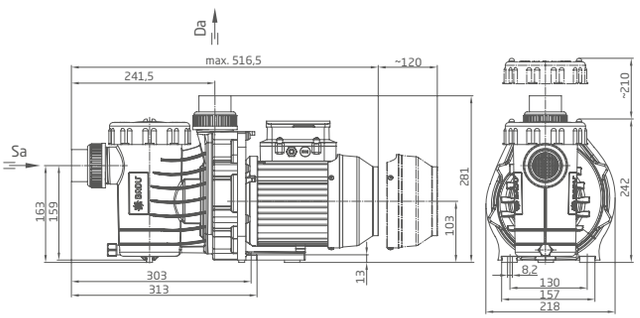
Performance



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

Dimensions

Detailed dimensions available on request or at badu.de



BADU® Eco Soft

Intelligent, fast and quiet.
Highly efficient circulation pump that makes full use of its capacity.

Field of application
Swimming pool water circulation through a filter system.
The pump can be installed max. 3 m above or below water level.

Design
Monoblock-type pump with integrated strainer tank.
The bellow-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.
Strainer tank capacity ..... approx. 3 l
Strainer basket mesh size ..... approx. 3.2 x 2.6 mm

Can be controlled using the BADU Eco Logic remote control.
See page 116.

Materials used
Pump casing ..... PP TV 20
Intermediate housing ..... PP TV 40
Gland housing ..... PP TV 40
Diffuser ..... PA 6 GF 15
Impeller ..... PA 66 GF 30
Strainer basket ..... PP
Lid ..... PC, transparent/PA 66 GF 30
Glue sockets ..... ABS
Mechanical seal ..... carbon/ceramic/NBR
Screws ..... galvanised stainless steel
Elastomers ..... NBR

Technical data at 50/60 Hz	BADU Eco Soft	
Inlet Sa/outlet connection Da d[4)]		63/50
Rec. inlet/outlet pipe, PVC pipe, d[4)]		63/50
Power input P_1/output P_2 [1)] (kW)	1~ 230 V	0.06-1.10/0.03-0.75
Rated current (A)	1~ 230 V	0.45-5.00
Net weight (kg)	1~	12.50

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

Article no	Description	Voltage	Power output P_2	Net RRP	Gross RRP[7)]
219.0008.138	BADU Eco Soft	1~ 230 V	0.75 kW	**1,044.17 €**	1,242.56 €

Universal opening device included in delivery. See page 130.

< **Noise-optimised motor.**
Ideal use of the motor capacity

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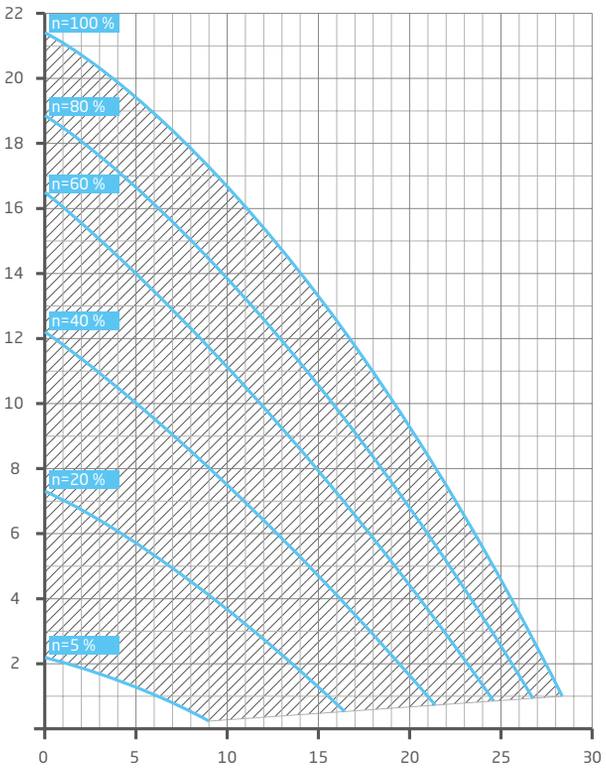
D, A

25 m³/h

30-90 m³

see key

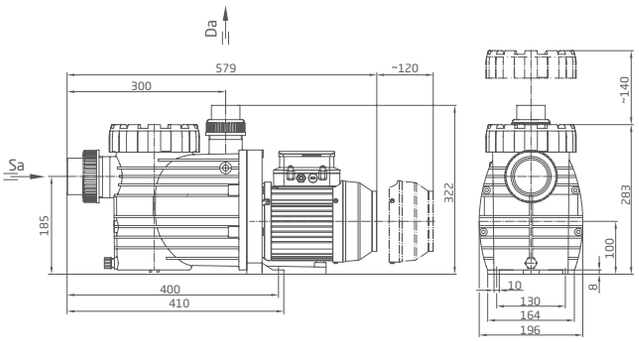
Performance



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

Dimensions

Detailed dimensions available on request or at badu.de



BADU® EasyFit Eco VS

Universal pump with great genes.
Broad field of application with high flexibility.

Field of application
Swimming pool water circulation through a filter system.
The pump can be installed max. 3 m above or below water level.

Design
Monoblock-type pump with integrated strainer tank.
The bellow-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.
Strainer tank capacity ..... approx. 3 l
Strainer basket mesh size ..... approx. 3.2 x 2.6 mm

For connection variations please see pages 34-35.
Can be controlled using the BADU Eco Logic remote control.
See page 116.

Materials used
Pump casing ..... PP GF 30
Intermediate housing ..... PP GF 30
Gland housing ..... PP TV 40
Diffuser ..... PA 66 GF 30/PP GF 30
Impeller ..... PP GF 30
Strainer basket ..... PP
Lid ..... PC, transparent/PP GF 30
Glue sockets ..... ABS
Mechanical seal ..... carbon/ceramic/NBR
Screws ..... stainless steel
Elastomers ..... NBR/viton

Technical data at 50/60 Hz	BADU EasyFit Eco VS	
Inlet Sa/outlet connection Da d[4)]		63/63
Rec. inlet/outlet pipe, PVC pipe, d[4)]		63/63
Power input P_1/output P_2 [1)] (kW)	1~ 230 V	0.03-1.40/0.01-1.10
Rated current (A)	1~ 230 V	0.50-6.10
Net weight (kg)	1~	11.50

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

Article no	Description	Voltage	Power output P_2	Net RRP	Gross RRP[7)]
207.6261.138	BADU EasyFit Eco VS	1~ 230 V	1.10 kW	**1,173.95 €**	1,397.00 €

Universal opening device included in delivery. See page 130.

< Motor display with intuitive control

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GS geprüfte Sicherheit

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BADU GREEN

PATENT

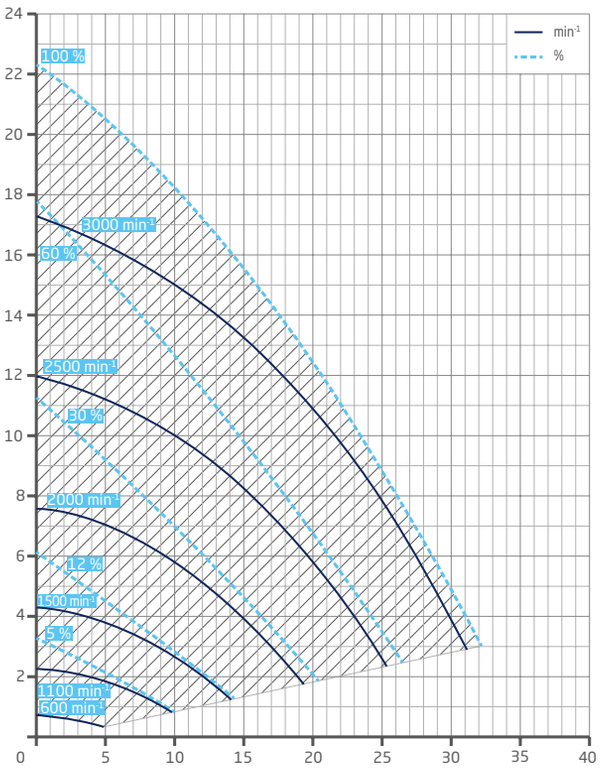
D

see key

28 m³/h

30-90 m³

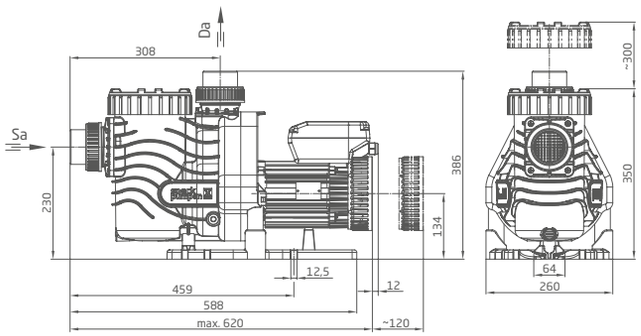
Performance



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

Dimensions

Detailed dimensions available on request or at badu.de



BADU® Gamma Eco VS

The new bestseller with variable PM motor based on our BADU Prime. Efficient, modern, thought out ...

Field of application

Swimming pool water circulation through a filter system.
The pump can be installed max. 3 m above or below water level.

Design

Monoblock-type pump with integrated strainer tank.
The bellow-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.

Strainer tank capacity ..... approx. 3 l
Strainer basket mesh size ..... approx. 3.2 x 2.6 mm

Can be controlled using the BADU Eco Logic remote control.
See page 116.

Materials used

Pump casing ..... PP GF 30
Intermediate housing ..... PP TV 40
Gland housing ..... PP TV 40
Diffuser ..... PA 66 GF 30/PP GF 30
Impeller ..... PP GF 30
Strainer basket ..... PP
Lid ..... PC, transparent/PA 66 GF 30
Mechanical seal ..... carbon/ceramic/NBR
Screws ..... stainless steel
Unions/glue sockets ..... ABS/PVC-U
Elastomers ..... NBR/viton

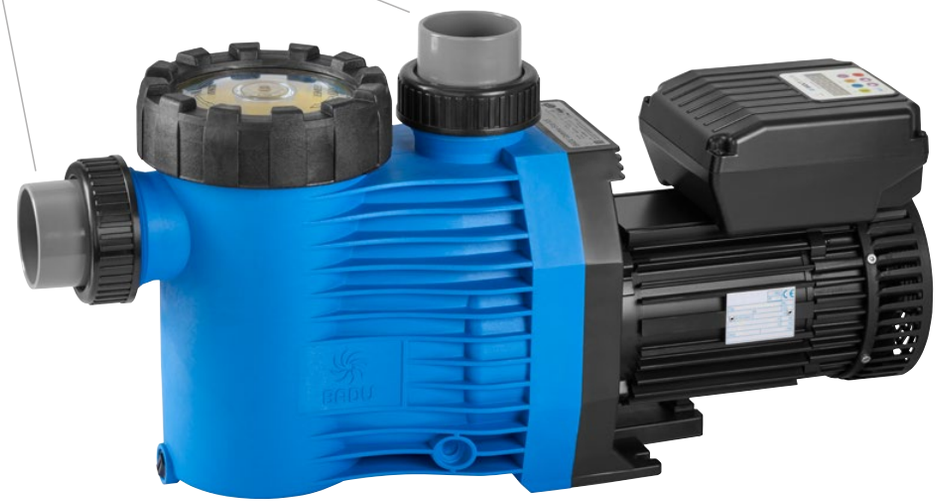
Technical data at 50/60 Hz	BADU Gamma Eco VS	
Inlet Sa/outlet connection Da d[4)]	Rp 2	63/63
Rec. inlet/outlet pipe, PVC pipe, d[4)]		63/63
Power input P_1/output P_2 [1)] (kW)	1~ 230 V	0.03-1.40/0.01-1.10
Rated current (A)	1~ 230 V	0.50-6.10
Net weight (kg)	1~	12.00

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

Article no	Description	Voltage	Power output P_2	Net RRP	Gross RRP[7)]
210.5231.138	BADU Gamma Eco VS	1~ 230 V	1.10 kW	**1,269.57 €**	1,510.79 €

Universal opening device included in delivery. See page 130.

With inner and outer thread



< Motor display with intuitive control

TÜVRheinland ZERTIFIZIERT
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GS geprüfte Sicherheit

BADU GREEN

PATENT

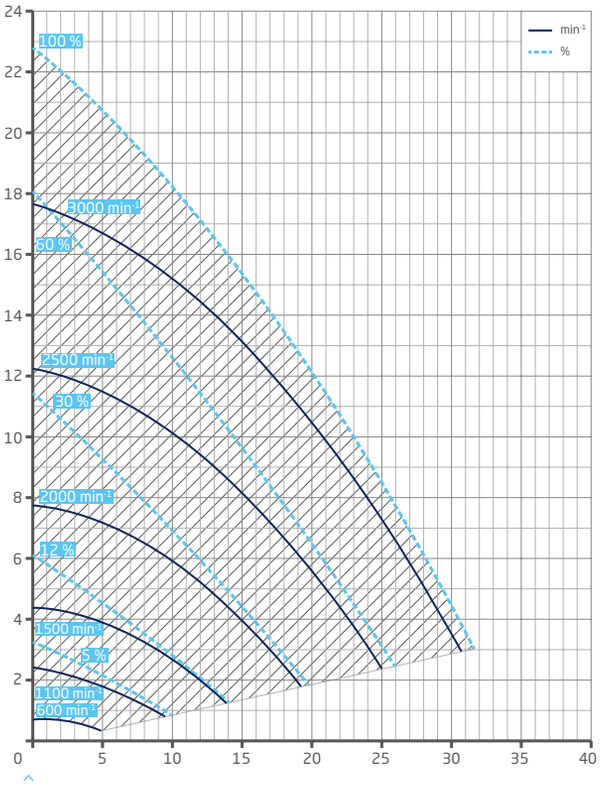
D

28 m³/h

30-120 m³

see key

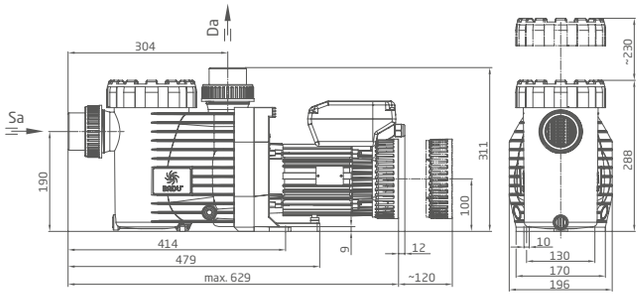
Performance



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

Dimensions

Detailed dimensions available on request or at badu.de



BADU® Prime Eco VS

Exceptionally economical and exceptionally quiet. Intelligent circulation pump for discerning customers.

Field of application

Swimming pool water circulation through a filter system.
The pump can be installed max. 3 m above or below water level.

Design

Monoblock-type pump with integrated strainer tank.
The bellow-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.

Strainer tank capacity ..... approx. 3 l
Strainer basket mesh size ..... approx. 3.2 x 2.6 mm

Can be controlled using the BADU Eco Logic remote control.
See page 116.

Materials used

Pump casing ..... PP GF 30
Intermediate housing ..... PP TV 40
Gland housing ..... PP TV 40
Diffuser ..... PA 66 GF 30
Impeller ..... PP GF 30
Strainer basket ..... PP
Lid ..... PC, transparent/PA 66 GF 30
Mechanical seal ..... carbon/ceramic/NBR
Screws ..... stainless steel
Elastomers ..... NBR/viton

Technical data at 50/60 Hz	BADU Prime Eco VS	
Inlet Sa/outlet connection Da Rp[2)]		2/1½
Rec. inlet/outlet pipe, PVC pipe, d[4)]		63/63
Power input P_1/output P_2 [1)] (kW)	1~ 230 V	0.03-1.40/0.01-1.10
Rated current (A)	1~ 230 V	0.50-6.10
Net weight (kg)	1~	11.00

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

Article no	Description	Voltage	Power output P_2	Net RRP	Gross RRP[7)]
219.0208.138	BADU Prime Eco VS	1~ 230 V	1.10 kW	**1,167.97 €**	1,389.88 €

Universal opening device included in delivery. See page 130.

< Motor display with intuitive control

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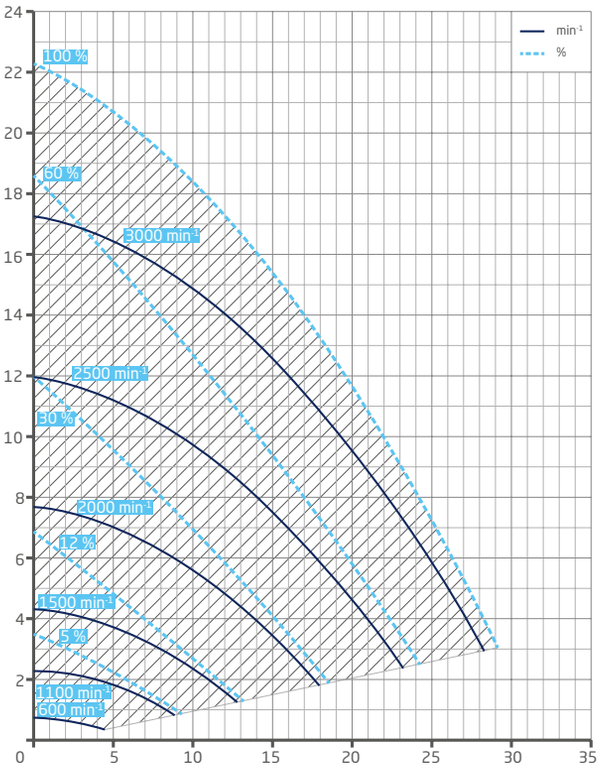
see key

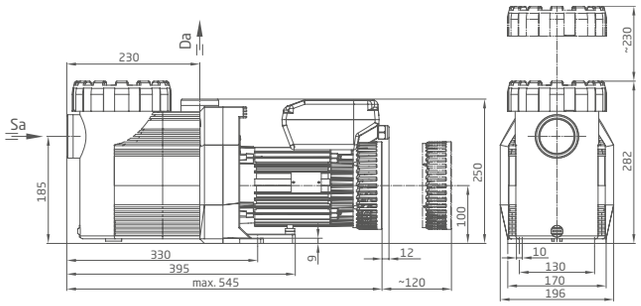
Performance



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

Dimensions

Detailed dimensions available on request or at badu.de



BADU® Bronze Eco VS

Exceptionally economical, exceptionally quiet and made from bronze. Intelligent circulation pump for discerning customers.

Field of application

Swimming pool water circulation through a filter system.
The pump can be installed max. 3 m above or below water level.

Design

Monoblock-type pump with integrated strainer tank.
The bellow-type mechanical seal is mounted on a plastic shaft protector sleeve. Heavy bronze housing, quiet running and high stability.

Strainer capacity ..... approx. 3 l
Strainer basket mesh size ..... approx. 3.2 x 2.6 mm

Can be controlled using the BADU Eco Logic remote control.
See page 116.

Materials used

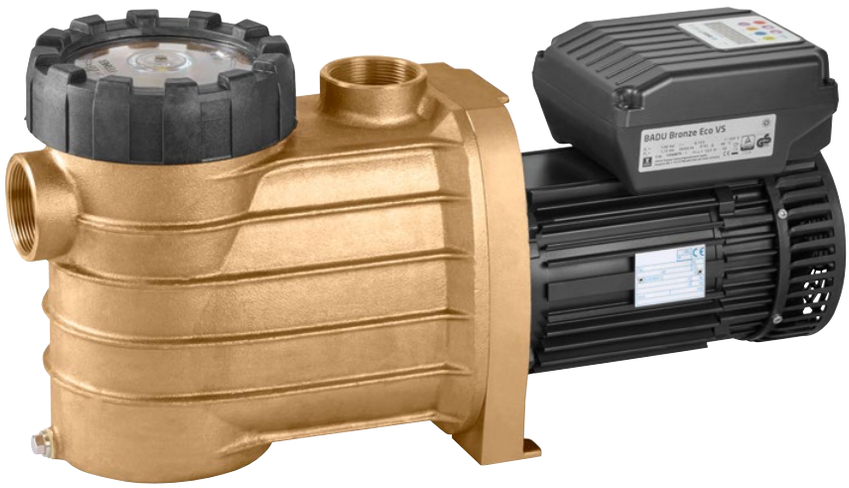
Pump casing ..... G-Cu Sn 10
Housing cover ..... G-Cu Sn 10
Diffuser ..... PA 66 GF 30
Impeller ..... PP GF 30
Strainer basket ..... PP
Lid ..... PC, transparent/PA 66 GF 30
Mechanical seal ..... carbon/ceramic/NBR
Screws ..... stainless steel
Elastomers ..... NBR/viton

Technical data at 50/60 Hz	BADU Bronze Eco VS	
Inlet Sa/outlet connection Da Rp[2)]		2/2
Rec. inlet/outlet pipe, PVC pipe, d[4)]		63/63
Power input P_1/output P_2 [1)] (kW)	1~ 230 V	0.03-1.40/0.01-1.10
Rated current (A)	1~ 230 V	0.50-6.10
Net weight (kg)	1~	24.00

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

Article no	Description	Voltage	Power output P_2	Net RRP	Gross RRP[7)]
210.1022.138	BADU Bronze Eco VS	1~ 230 V	1.10 kW	**2,059,32 €**	2,450.59 €

Universal opening device included in delivery. See page 130.



< Motor display with intuitive control

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GS geprüfte Sicherheit

BADU GREEN

PATENT

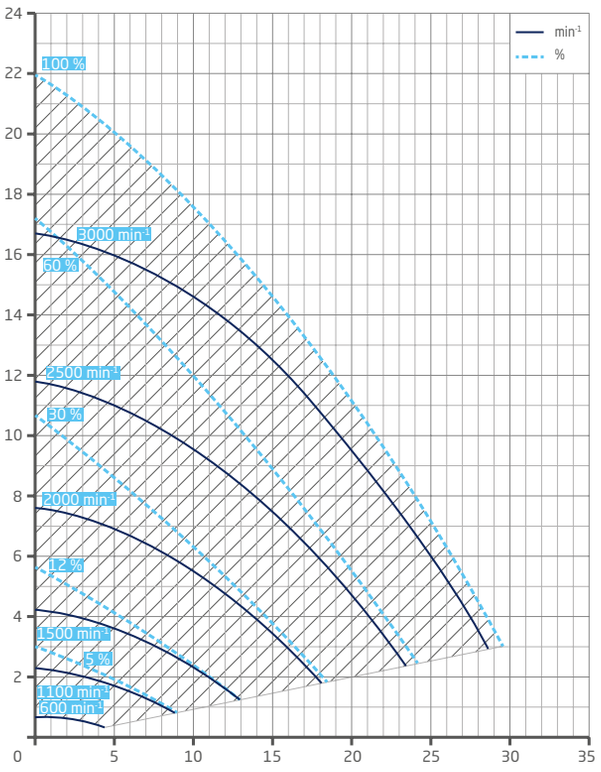
D

see key

28 m³/h

30-90 m³

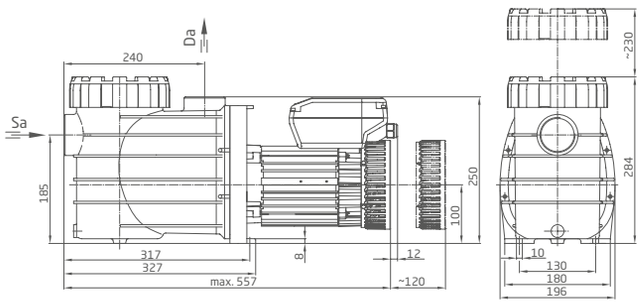
Performance



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

Dimensions

Detailed dimensions available on request or at badu.de



BADU® Delta Eco VS

New high-class standard with speed control.
High-quality filter circulation pumps for professionals.

Field of application
Swimming pool water circulation through a filter system.
The pump can be installed max. 3 m above or below water level.

Design
Monoblock-type pump with integrated strainer tank.
The bellow-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.
Strainer tank capacity ..... approx. 4 l
Strainer basket mesh size ..... approx. 2.2 x 2.2 mm

Can be controlled with the BADU Eco Logic pump remote control.
See page 116.

Materials used
Pump casing ..... PP GF 30
Intermediate housing ..... PP GF 30
Gland housing ..... PP GF 30
Unions/glue sockets ..... ABS/PVC-U
Diffuser ..... PP GF 30
Impeller ..... PPE GF 30
Strainer basket ..... PP
Lid ..... PC, transparent/PA 66 GF 30
Mechanical seal ..... carbon/ceramic/NBR
Screws ..... stainless steel
Elastomers ..... NBR/viton

Technical data at 50/60 Hz	BADU Delta Eco VS	
Inlet Sa/outlet connection Da[4)]		63/63
Rec. inlet/outlet pipe, PVC pipe, d[4)]		63/63
Power input P_1/output P_2 [1)] (kW)	1~ 230 V	0.03-1.40/0.01-1.10
Rated current (A)	1~ 230 V	0.50-6.10
Net weight (kg)	1~	14.00

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

Article no	Description	Voltage	Power output P_2	Net RRP	Gross RRP[7)]
210.3281.138	BADU Delta Eco VS	1~ 230 V	1.10 kW	**1,313.97 €**	1,563.62 €

Universal opening device included in delivery. See page 130.

Transparent lid with integrated LED lighting

Impeller fan and guard for reduced operating noise

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GS geprüfte Sicherheit

BADU GREEN

PATENT

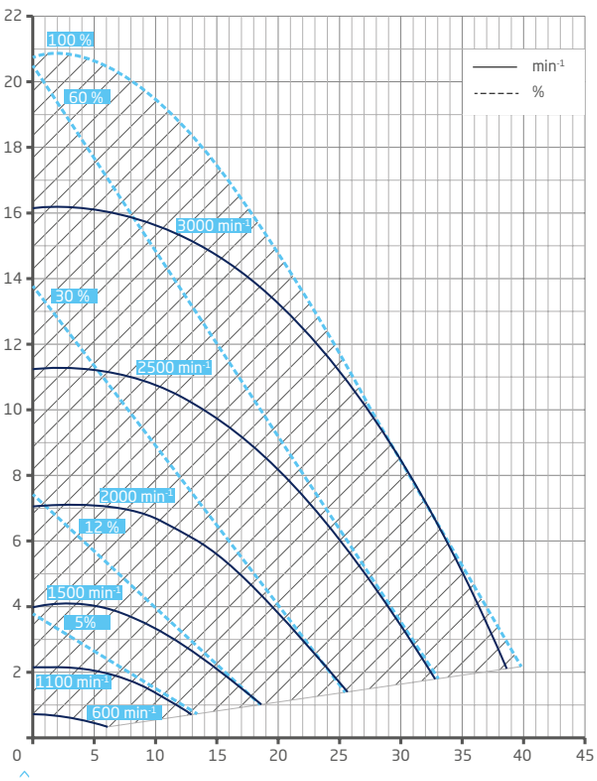
D

see key

30 m³/h

30–150 m³

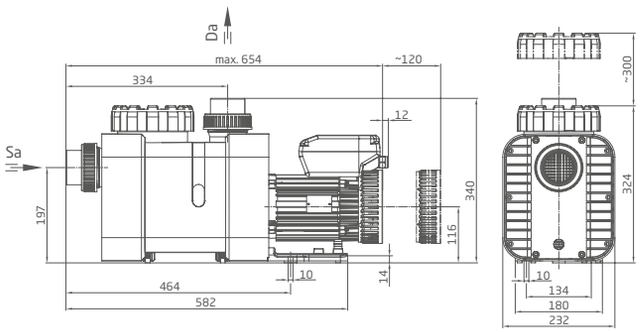
Performance



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

Dimensions

Detailed dimensions available on request or at badu.de



BADU® Delta-MK Eco VS

Sealless pump for the pool.
Speed controlled and quiet.

Fields of application
Swimming pool water circulation through a filter system.
The pump can be installed max. 1.5 m above or 3 m below water level.

Design
Monoblock-type pump with integrated strainer tank.
Motor/pump shaft has no contact with the pool water providing complete electrical separation.
Strainer tank capacity ..... approx. 4 l
Strainer basket mesh size ..... approx. 2.2 x 2.2 mm

Can be controlled with the BADU Eco Logic pump remote control.
See page 116.

Materials used
Pump casing ..... PP GF 30
Intermediate housing/gland housing ..... PP GF 30
Lid for gland houisng ..... PP GF 10
Can ..... PP GF 30
Intermediate flange ..... PP GF 30
Pump feet ..... ABS GF 20
Unions/glue sockets ..... ABS/PVC-U
Diffuser ..... PP GF 30
Impeller ..... PPE GF 30
Strainer basket ..... PP
Lid ..... PC, transparent/PA 66 GF 30
Slide bearing ..... SiC/SiC
Elastomers ..... NBR
Screws ..... stainless steel

Technical data at 50/60 Hz	BADU Delta-MK Eco VS	
Inlet Sa/outlet connection Da[4)]		63/63
Rec. inlet/outlet pipe, PVC pipe, d[4)]		63/63
Power input P_1/output P_2 [1)] (kW)	1~ 230 V	0.48-1.80/0.37-1.40
Rated current (A)	1~ 230 V	2.15-7.80[*)]
Net weight (kg)	1~	19.00

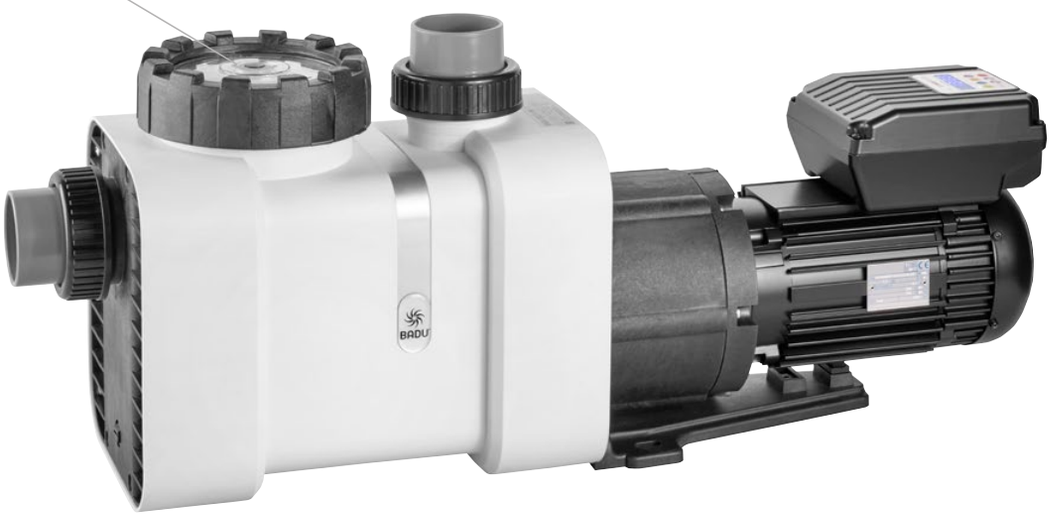
For more detailed information regarding the motor protection please see page 143.

[*)] At speed n = 2000-3000 rpm

Article no	Description	Voltage	Power output P_2	Net RRP	Gross RRP[7)]
210.3281.438	BADU Delta-MK Eco VS	1~ 230 V	1.40 kW	**1,603.40 €**	1,908.05 €

Universal opening device included in delivery. See page 130.

Transparent lid with integrated LED lighting



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ID 0000021507

GS geprüfte Sicherheit

BADU GREEN

PATENT

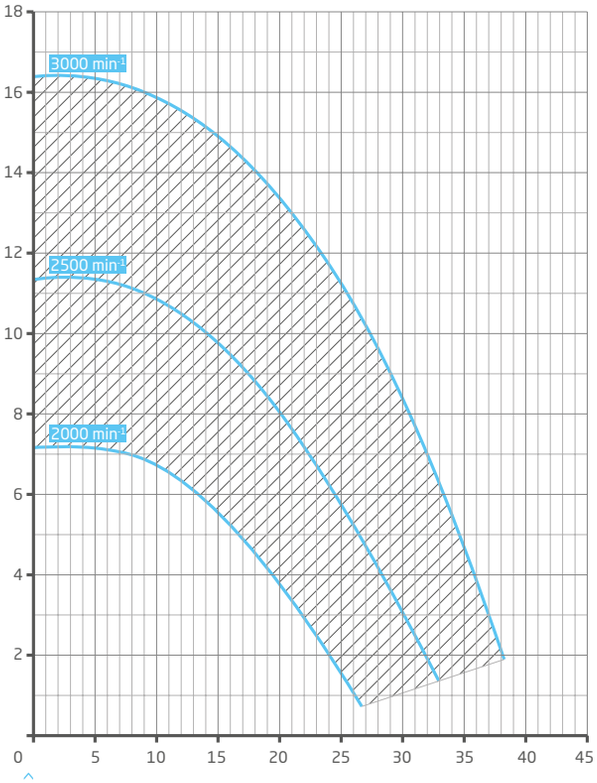
D

see key

30 m³/h

30–150 m³

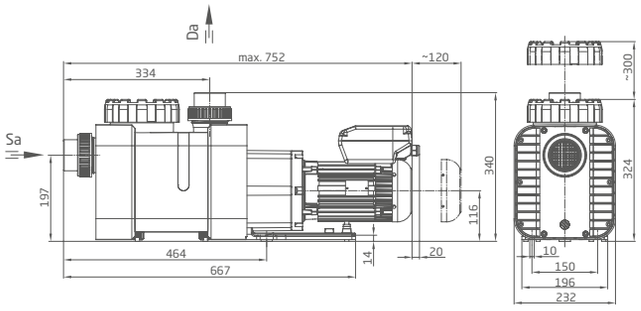
Performance



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

Dimensions

Detailed dimensions available on request or at badu.de



BADU® Profi Eco VS

Exclusive premium pump with maximum energy efficieny. Especially quiet. For larger pools and swimming baths. For the highest demands.

Field of application

Swimming pool water circulation through a filter system.
The pump can be installed max. 3 m above or below water level.

Design

Monoblock-type pump with integrated strainer tank.
The bellow-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.

Strainer tank capacity ..... approx. 4 l
Strainer basket mesh size ..... approx. 2.2 x 2.2 mm

Can be controlled with the BADU Eco Logic pump remote control.
See page 116.

Materials used

Pump housing ..... PP GF 30
Intermediate housing ..... PP GF 30
Gland housing ..... PP GF 30
Volute casing ..... PP
Diffuser ..... PA 66 GF 30
Impeller ..... PP GF 30
Strainer basket ..... PP
Lid ..... PC, transparent/PA 66 GF 30
Mechanical seal ..... carbon/ceramic/NBR
Screws ..... stainless steel
Glue sockets ..... PVC-U
Elastomers ..... NBR/viton

Technical data at 50/60 Hz	BADU Profi Eco VS	
Inlet Sa/outlet connection Da d_{outer} . DN_{inner} [4]		75/75 . 63/63
Rec. inlet/outlet pipe, PVC pipe, d[4]		75/75
Power input P_1/output P_2 [1] (kW)	1~ 230 V	0.09-1.80/0.05-1.40
Rated current (A)	1~ 230 V	0.65-7.80
Net weight (kg)	1~	17.00

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

Article no	Description	Voltage	Power output P_2	Net RRP	Gross RRP[7]
210.2321.138	BADU Profi Eco VS	1~ 230 V	1.40 kW	**1,259.33 €**	1,498.60 €

Universal opening device included in delivery. See page 130.

BADU Profi pumps are only available to buy from qualified swimming pool retailers ...
Call us on +49 9123 949-400

Transparent lid with integrated LED lighting

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GS geprüfte Sicherheit

BADU GREEN

PATENT

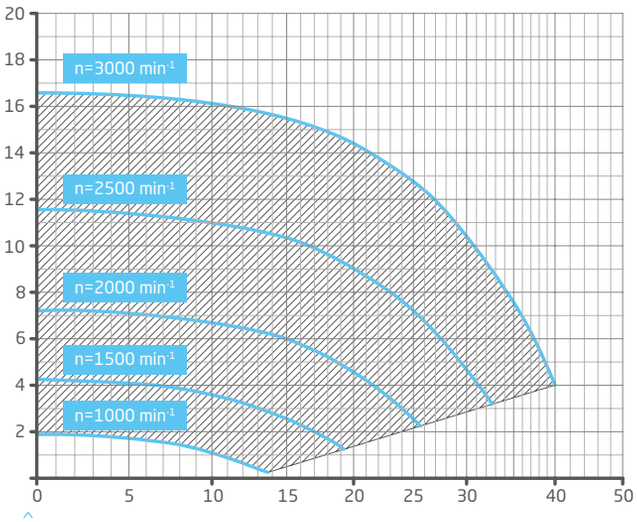
D

see key

37 m³/h

30-180 m³

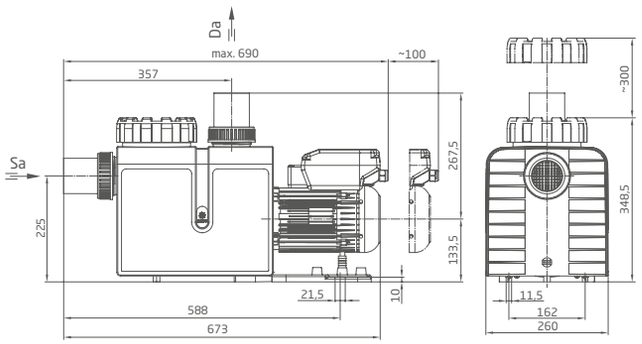
Performance



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

Dimensions

Detailed dimensions available on request or at badu.de



BADU® Profi-MK Eco VS

Sealless pump for the pool. With variable speed control.

Field of application

Swimming pool water circulation through a filter system.
The pump can be installed max. 1.5 m above or 3 m below water level.

Design

Monoblock-type pump with integrated strainer tank.
Motor/pump shaft has no contact with the pool water providing complete electrical separation.

Strainer tank capacity ..... approx. 4 l
Strainer basket mesh size ..... approx. 3.2 x 2.6 mm

Can be controlled with the BADU Eco Logic pump remote control.
See page 116.

Materials used

Pump housing ..... PP GF 30
Intermediate housing/gland housing ..... PP GF 30
Lid for gland housing ..... PP
Can ..... PP GF 30
Intermediate flange ..... PP GF 30
Volute casing ..... PP
Diffuser ..... PA 66 GF 30
Impeller ..... PP GF 30
Strainer basket ..... PP
Lid ..... PC, transparent/PA 66 GF 30
Slide bearing ..... SiC/SiC
Screws ..... stainless steel
Elastomers ..... NBR
Glue sockets ..... PVC-U

Technical data at 50/60 Hz	BADU Profi-MK Eco VS	
Inlet Sa/outlet connection Da d_{outer} . DN_{inner} [4]		75/75 . 63/63
Rec. inlet/outlet pipe, PVC pipe, d[4]		75/75
Power input P_1/output P_2 [1] (kW)	1~ 230 V	0.56-1.80/0.48-1.40
Rated current (A)	1~ 230 V	2.49-7.80[*]
Net weight (kg)	1~	21.00

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

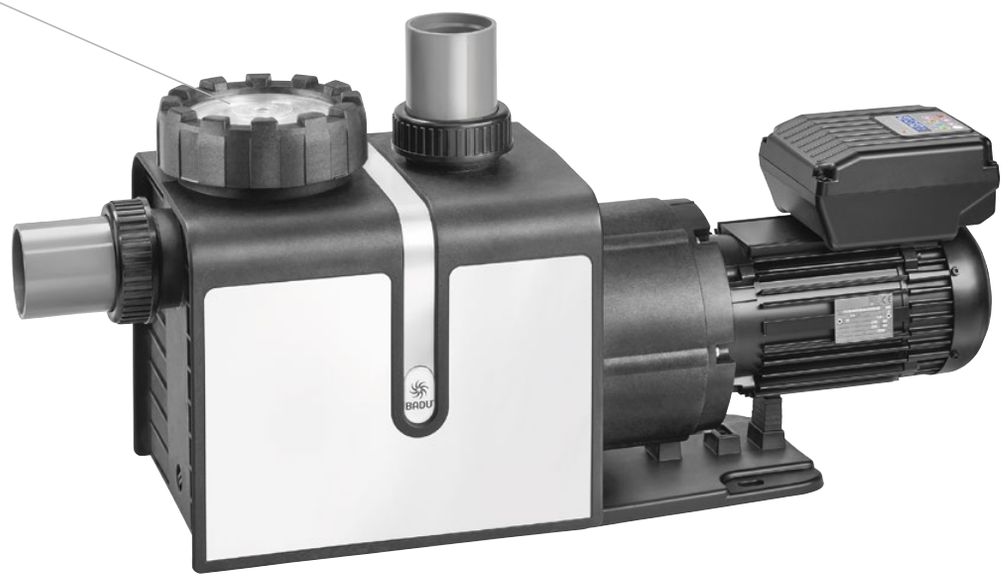
[*] At speed n = 2000-3000 rpm

Article no	Description	Voltage	Power output P_2	Net RRP	Gross RRP[7]
210.2321.438	BADU Profi-MK Eco VS	1~ 230 V	1.40 kW	**1,727,20 €**	2,055.37 €

Universal opening device included in delivery. See page 130.

BADU Profi pumps are only available to buy from qualified swimming pool retailers ...
Call us on +49 9123 949-400

Transparent lid with integrated LED lighting



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GS geprüfte Sicherheit

BADU GREEN

PATENT

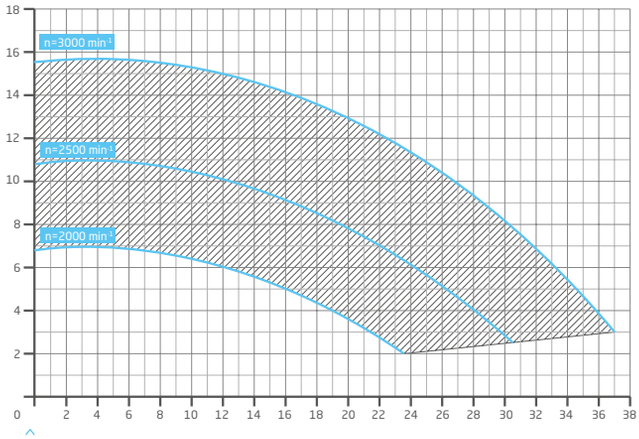
D

33 m³/h

30-180 m³

see key

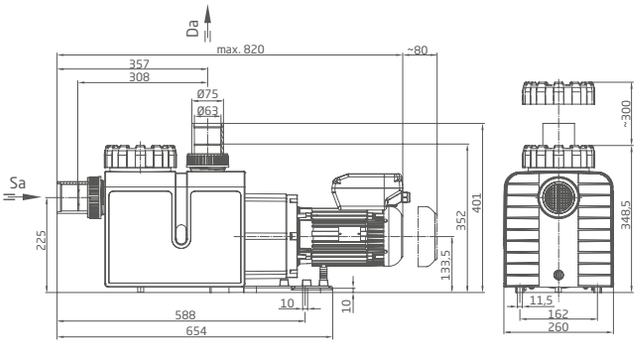
Performance



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

Dimensions

Detailed dimensions available on request or at badu.de



BADU® Eco Flex

Variable speed motor with the latest, highly efficient motor technology. Circulation pump with proven controls for large pools.

Field of application

Swimming pool water circulation through a filter system.
The pump can be installed max. 3 m above or below water level.

Design

Monoblock-type pump with integrated strainer tank.
The bellow-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.

Strainer tank capacity ..... approx. 6 l
Strainer basket mesh size ..... approx. 3.0 x 2.8 mm

Materials used

Pump casing ..... PP GF 30
Intermediate housing ..... PP GF 30
Gland housing ..... PP TV 40
Diffuser ..... PP GF 30
Impeller ..... PPE GF 30
Strainer basket ..... PP
Lid ..... PC, transparent/PA 66 GF 30
Glue sockets ..... ABS
Mechanical seal ..... carbon/ceramic/NBR
Screws ..... stainless steel
Elastomers ..... NBR/viton

Technical data at 50/60 Hz	BADU Eco Flex	
Inlet Sa/outlet connection Da d[4)]		90/90
Rec. inlet/outlet pipe, PVC pipe, d[4)]		90/90
Power input P_1/output P_2 [1)] (kW)	1~ 230 V	0.08-2.60/0.05-2.20
Rated current (A)	1~ 230 V	0.45-12.00
Net weight (kg)	1~	24.50

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

Article no	Description	Voltage	Power output P_2	Net RRP	Gross RRP[7)]
219.0408.338	BADU Eco Flex	1~ 230 V	2.20 kW	**1.547,91 €**	1.842,01 €

Three-way opening device included in delivery. See page 130.

Replacement for the BADU Eco Motion >

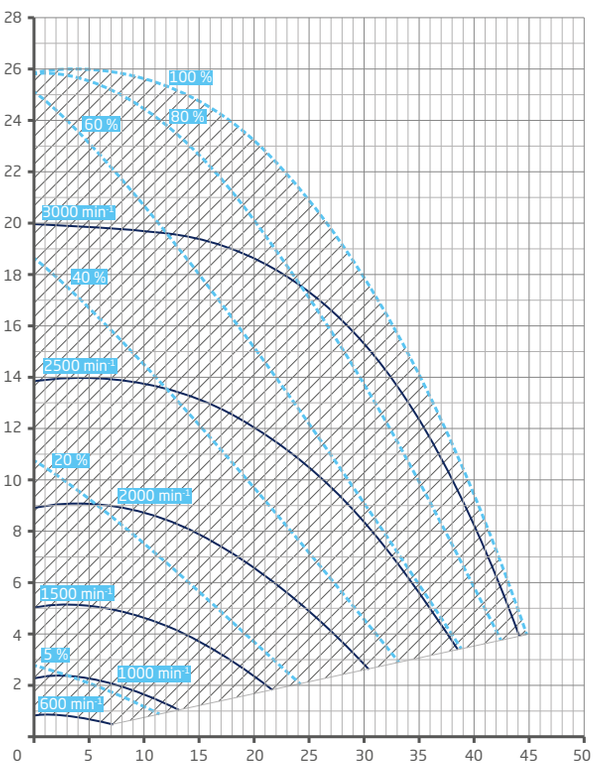
< Motor display with intuitive control

BADU GREEN

D, A, R | 40 m³/h | 30–200 m³

see key

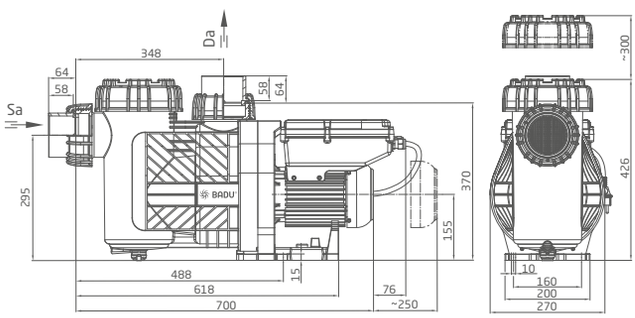
Performance



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

Dimensions

Detailed dimensions available on request or at badu.de



BADU® Variostar

Salt water optimised, corrosion-resistant, robust.
Variable centrifugal pump for streams and pond circulation.

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 bellow-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
Unions with glue socket ..... ABS
Impeller nut ..... PP GF 30
Mechanical seal ..... SiC/SiC/viton
Motor shaft ..... stainless steel
Screws ..... stainless steel
Elastomers ..... viton

Technische Daten bei 50/60 Hz	BADU Variostar	
Inlet Sa/outlet connection Da Rp[2)]		90/90
Rec. inlet/outlet pipe, PVC pipe, d[4)]		110/110
Power input P_1/output P_2 [1)] (kW)	1~ 230 V	0.07-1.15/0.03-0.85
Rated current (A)	1~ 230 V	0.60-4.95
Net weight (kg)	1~	11.00

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

Article no	Description	Voltage	Power output P_2	Net RRP	Gross RRP[7)]
238.1342.448	BADU Variostar	1~ 230 V	0.85 kW	**1.856,12 €**	2.208,78 €

BADU GREEN

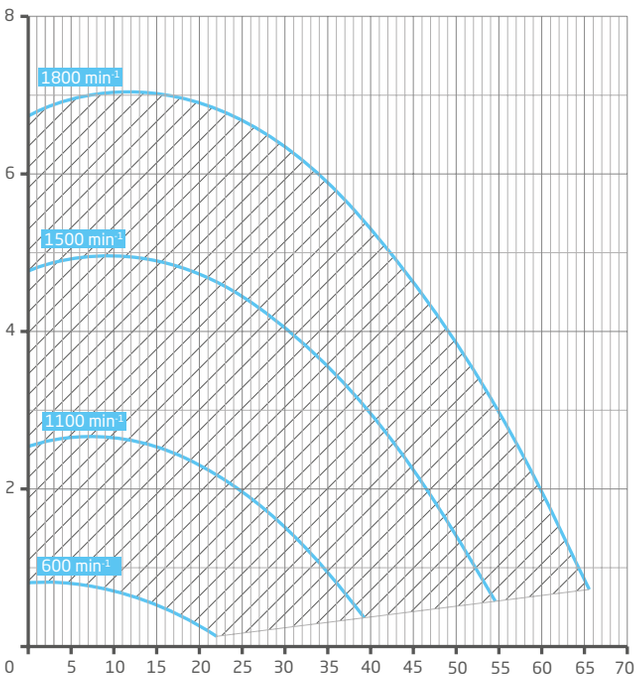
D, A

65 m³/h

30–200 m³

see key

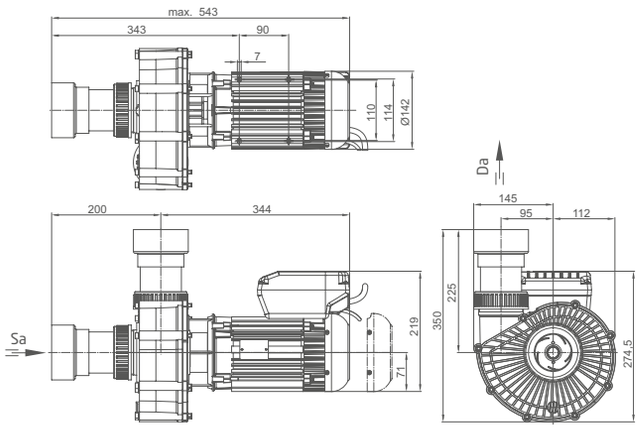
Performance



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

Dimensions

Detailed dimensions available on request or at badu.de



BADU Fact checker

Well informed for the right decision: The BADU fact checker. Relevant pump features at a glance and in direct comparison.

Comparison parameters	**BADU**	**46**	**47**
Flow rate Q max. (m³/h)		25	25
Power input P_1 (kW)		0.58-1.20	0.58-1.20
Power output P_2 (kW)		0.30-0.80	0.30-0.80
Single phase 1~ 230 V*)		●	●
Three-phase 3~ 400/230 V*)		○	○
Glue socket d (mm)		63/50	63/50
Glue socket materials		ABS	ABS
Connection options		V	V
Replacement alternative	BADU	47	46
Catalogue page		70	72

*) Special voltages on request.
V - Union
AG - Outer thread





21-40	21-41	21-50/21-60	21-80	21-81
30	30	52	90	90
0.90-2.00	0.90-2.00	1.33-3.90	1.90-4.55	1.90-4.55
0.55-1.50	0.55-1.50	1.10-3.00	1.60-4.00	1.60-4.00
●	●	●	●	●
●	●	●	●	●
–	63	–	–	90
–	ABS	–	–	ABS
2" AG	2" AG	2¾" AG	2¾" AG	V
21-41	21-40	–	21-81	21-80
74	76	78	80	82

Circulation pumps, non-self-priming

Non-self-priming circulation pumps are reliable and proven. These pumps are placed under the water level and are therefore often the perfect choice for pool attractions and whirlpools. Available in 34 performance varieties, these BADU pumps are suitable for pool volumes of up to 100 m³.

Product overview

BADU 46
Performance: 5-22 m³/h
Pool size: 1-30 m³
Page 70

BADU 47
Performance: 5-22 m³/h
Pool size: 1-30 m³
Page 72

BADU 21-40
Performance: 12-30 m³/h
Pool size: 1-30 m³
Page 74

BADU 21-41
Performance: 12-30 m³/h
Pool size: 1-30 m³
Page 76

BADU 21-50 / 21-60
Performance: 20-50 m³/h
Pool size: 30-100 m³
Page 78

BADU 21-80
Performance: 40-80 m³/h
Pool size: 30-100 m³
Page 80

BADU 21-81
Performance: 40-80 m³/h
Pool size: 30-100 m³
Page 82

The pumps pictured above can be used for pool water with a salt concentration of up to 0.5 %, i.e. 5 g/l.
For higher salt concentrations please contact us.

BADU® 46

Solid, medium-size jet pump with self-draining unit. For bath tubs, whirlpools and spa facilities.

Field of application

With a flow rate from 5 to 20 m³/h at 8 m head, the BADU 46 series are the ideal pumps for jacuzzis, whirlpools and for use in spas.

Design

The bellow-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.

Materials used

Pump casing ..... PP TV 40
Housing cover ..... PP GF 15
Impeller (BADU 46/5, BADU 46/10, BADU 46/15) ..... PPE GF 30
Impeller (BADU 46/22) ..... PA 66 GF 30
Unions with glue sockets ..... ABS
Mechanical seal ..... carbon/ceramic/NBR
Screws ..... brass/stainless steel
Elastomers ..... NBR

Technical data at 50 Hz	BADU 46/	5	10	15	22
Inlet Sa/outlet connection Da d[4]		63/50	63/50	63/50	63/50
Rec. inlet/outlet pipe, PVC pipe, d[4]		50/50	50/50	50/50	63/50
Power input P_1/output P_2 [1] (kW)	1~ 230 V	0.58/0.30	0.69/0.45	0.97/0.65	1.20/0.80
Rated current (A)	1~ 230 V	2.60	3.20	4.70	5.30
Net weight (kg)	1~	7.00	7.00	8.00	9.00

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

Article no	Description	Voltage	Power output P_2	Net RRP	Gross RRP[7]
204.6050.038	BADU 46/5	1~ 230 V	0.30 kW	**275.77 €**	328.17 €
204.6100.038	BADU 46/10	1~ 230 V	0.45 kW	**285.16 €**	339.34 €
204.6150.038	BADU 46/15	1~ 230 V	0.65 kW	**303.95 €**	361.70 €
204.6220.038	BADU 46/22	1~ 230 V	0.80 kW	**321.88 €**	383.04 €

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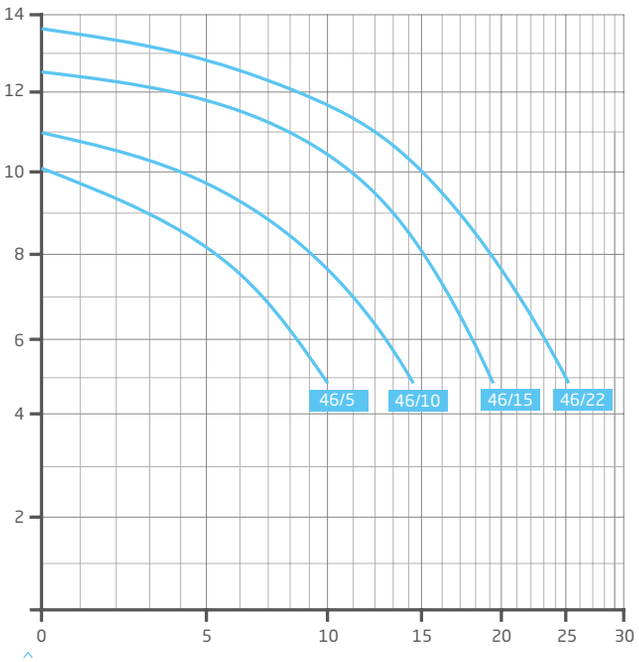
5-22 m³/h

1-30 m³

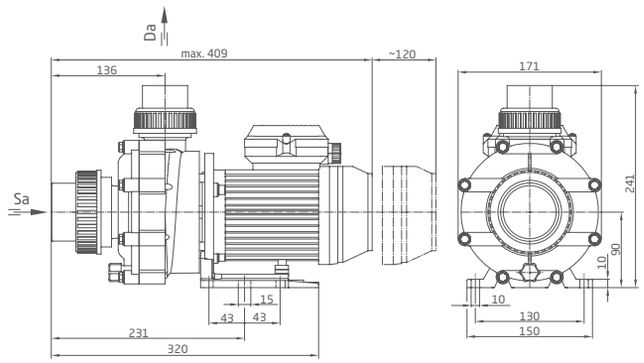
Performance



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

Dimensions

Detailed dimensions available on request or at badu.de



BADU® 47

Connection variant for BADU 46 medium-size jet pump. For bath tubs, whirlpools and spa facilities.

Field of application

With a flow rate from 6 to 23 m³/h at 8 m head, the BADU 47 series are the ideal pumps for jacuzzis, whirlpools and for use in spas.

Design

The bellow-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.

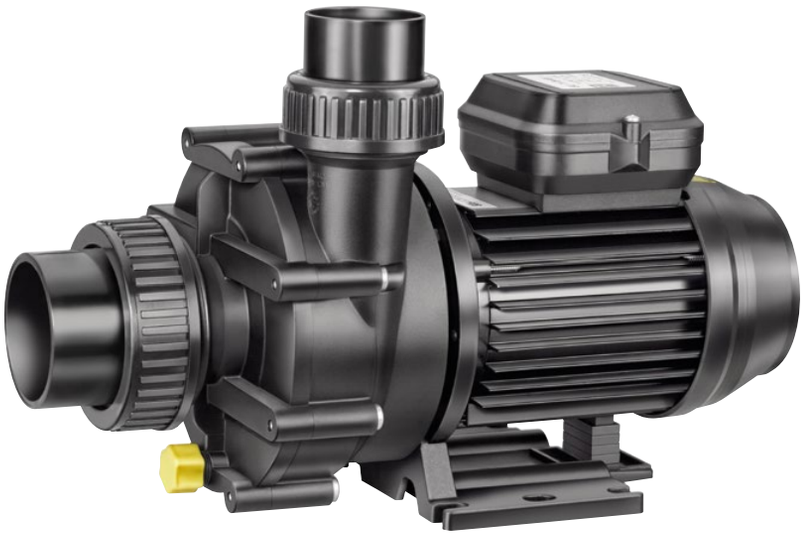
Materials used

Pump casing ..... PP TV 40
Housing cover ..... PP GF 15
Impeller (BADU 47/5, BADU 47/10, BADU 47/16) ..... PPE GF 30
Impeller (BADU 47/22) ..... PA 66 GF 30
Unions with glue sockets ..... ABS
Mechanical seal ..... carbon/ceramic/NBR
Screws ..... brass/stainless steel
Elastomers ..... NBR

Technical data at 50 Hz	BADU 47/	5	10	16	22
Inlet Sa/outlet connection Da d[4)]		63/50	63/50	63/50	63/50
Rec. inlet/outlet pipe, PVC pipe, d[4)]		50/50	50/50	50/50	63/50
Power input P_1/output P_2 [1)] (kW)	1~ 230 V	0.58/0.30	0.69/0.45	0.97/0.65	1.20/0.80
Rated current (A)	1~ 230 V	2.60	3.20	4.70	5.30
Net weight (kg)	1~	7.00	7.00	8.00	10.00

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

Article no	Description	Voltage	Power output P_2	Net RRP	Gross RRP[7)]
204.7050.038	BADU 47/5	1~ 230 V	0.30 kW	**276.63 €**	329.19 €
204.7100.038	BADU 47/10	1~ 230 V	0.45 kW	**285.16 €**	339.34 €
204.7160.038	BADU 47/16	1~ 230 V	0.65 kW	**303.95 €**	361.70 €
204.7220.038	BADU 47/22	1~ 230 V	0.80 kW	**321.88 €**	383.04 €



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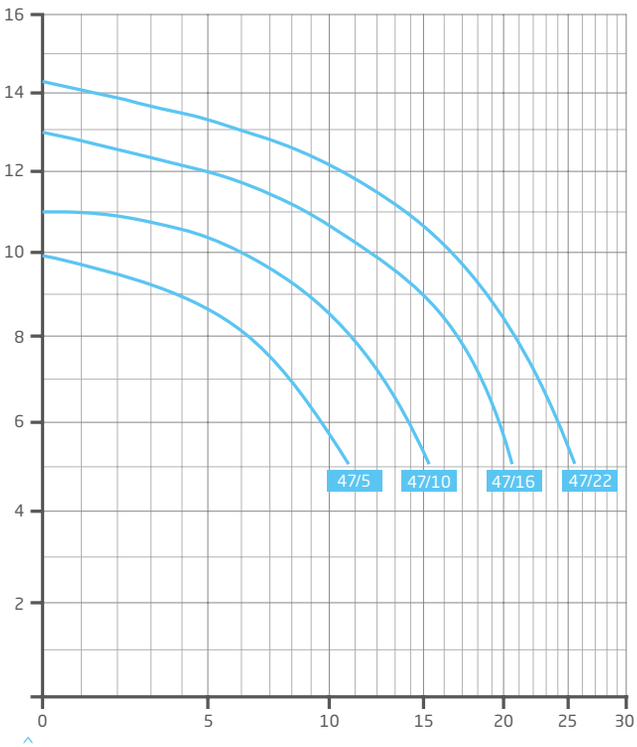
5-22 m³/h

1-30 m³

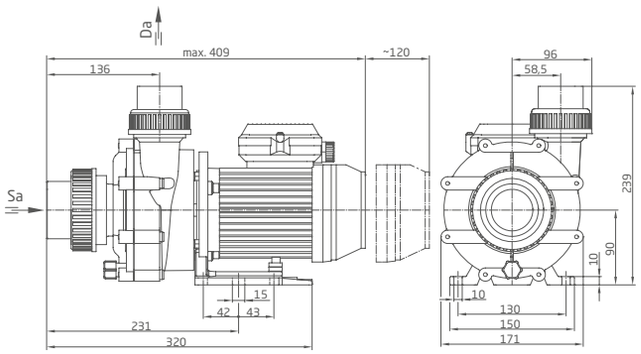
Performance



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

Dimensions

Detailed dimensions available on request or at badu.de



BADU® 21-40

Universal, small circulation pump. Reliable and space-saving. For tubs and pools, counter swim units and pool cleaning devices.

Field of application
Jet pump for bath tubs and whirlpools, massage units, air conditioning units and pool cleaning devices with a flow rate of up to 30 m³/h.

Design
The bellow-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 gradually by 90°.
The unit may be installed vertically with the pump underneath.
The pump is self-draining when installed vertically.

For suitable connection unions please see page 132.

Materials used
Pump casing ..... PP TV 40
Lid/stand ..... PP TV 40
Impeller (version H) ..... PPE GF 30 (PP GF 30)
Wear ring ..... stainless steel
Mechanical seal ..... carbon/ceramic/NBR
Screws ..... galvanised steel/stainless steel
Elastomers ..... NBR

Technical data at 50 Hz	BADU 21-40/	53 G/H G	54 G/H G	55 G/H G	56 G/H G	58 G/H G
Inlet Sa/outlet connection Da d[4]		2/2*)	2/2*)	2/2*)	2/2*)	2/2*)
Rec. inlet/outlet pipe, PVC pipe, d[4]		63/63	63/63	63/63	63/63	75/75
Power input P_1/output P_2 [1] (kW)	1~ 230 V	0.90/0.55	1.10/0.75	1.33/1.00	-/-	2.00/1.50
Rated current (A)	1~ 230 V	4.20	5.20	6.50	-/-	8.80
Power input P_1/output P_2 [1] (kW)	3~ Y/Δ 400/230 V	-/-	-/-	-/-	1.33/1.10	1.77/1.50
Rated current (A)	3~ Y/Δ 400/230 V	-/-	-/-	-/-	2.40/4.15	3.30/5.72
Net weight (kg)	1~/3~	9.50/-	10.00/-	13.00/-	-/16.00	14.50/16.00

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

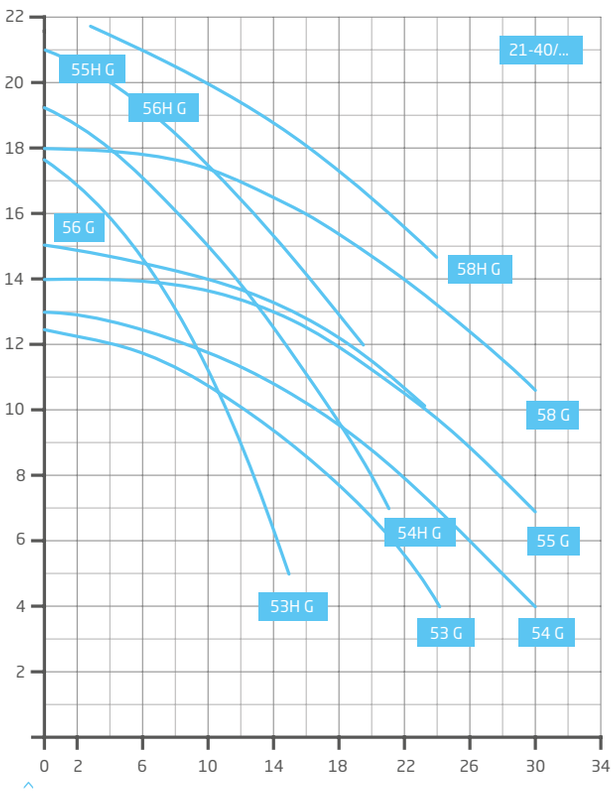
*) Also available with Ø 50/Ø 40 hose adapters.

Article no	Description	Voltage	Power output P_2	Net RRP	Gross RRP[7]
234.0530.138	BADU 21-40/53 G	1~ 230 V	0.55 kW	**505.44 €**	601.47 €
234.0530.338	BADU 21-40/53H G	1~ 230 V	0.55 kW	**520.81 €**	619.76 €
234.0540.138	BADU 21-40/54 G	1~ 230 V	0.75 kW	**607.89 €**	723.39 €
234.0540.338	BADU 21-40/54H G	1~ 230 V	0.75 kW	**625.83 €**	744.74 €
234.0550.138	BADU 21-40/55 G	1~ 230 V	1.00 kW	**659.97 €**	785.36 €
234.0550.338	BADU 21-40/55H G	1~ 230 V	1.00 kW	**675.35 €**	803.67 €
234.0580.138	BADU 21-40/58 G	1~ 230 V	1.50 kW	**799.13 €**	950.96 €
234.0580.338	BADU 21-40/58H G	1~ 230 V	1.50 kW	**811.09 €**	965.20 €
234.0560.137	BADU 21-40/56 G	3~ Y/Δ 400/230 V	1.10 kW	**689.00 €**	819.91 €
234.0560.337	BADU 21-40/56H G	3~ Y/Δ 400/230 V	1.10 kW	**706.93 €**	841.25 €
234.0580.137	BADU 21-40/58 G	3~ Y/Δ 400/230 V	1.50 kW	**729.13 €**	867.66 €
234.0580.337	BADU 21-40/58H G	3~ Y/Δ 400/230 V	1.50 kW	**747.05 €**	888.99 €

12–30 m³/h

1–30 m³

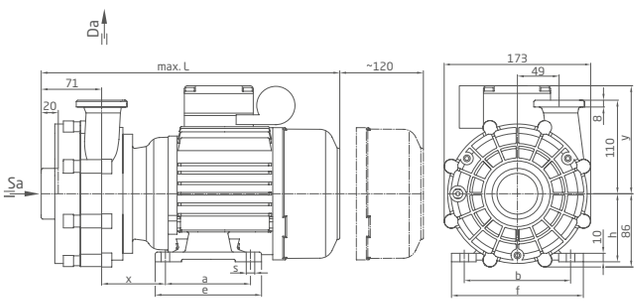
Performance



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 21-40/53 G/H G 1~	90	112	115	138	71	7	84	132	313
BADU 21-40/53 G/H G 3~	90	112	115	138	71	7	84	111	313
BADU 21-40/54 G/H G 1~	90	112	115	138	71	7	84	132	313
BADU 21-40/54 G/H G 3~	90	112	115	138	71	7	84	119	313
BADU 21-40/55 G/H G 1~	100	125	125	153	80	9	75	128	351
BADU 21-40/56 G/H G 3~	100	125	125	153	80	9	75	128	351
BADU 21-40/58 G/H G 1~	100	125	125	153	80	9	75	142	351
BADU 21-40/58 G/H G 3~	100	125	125	153	80	9	75	128	376

Professional terms and abbreviations – explained clearly and simply on page 146.

BADU® 21-41

Connection variant for the BADU 21-40 universal circulation pump. For tubs and pools, counter swim units and pool cleaning devices.

Field of application
Jet pump for bath tubs and whirlpools, massage units, air conditioning units and pool cleaning devices with a flow rate of up to 30 m³/h.

Design
The bellow-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 gradually by 90°.
The unit may be installed vertically with the pump underneath.
The pump is self-draining when installed vertically.

For suitable connection unions please see page 132.

Materials used
Pump casing ..... PP TV 40
Lid/stand ..... PP GF 15
Impeller (version H) ..... PPE GF 30 (PP GF 30)
Mechanical seal ..... carbon/ceramic/NBR
Screws ..... galvanised steel/stainless steel
Elastomers ..... NBR

Technical data at 50 Hz	BADU 21-41/	53 G/H G	54 G/H G	55 G/H G	56 G/H G	58 G/H G
Inlet Sa glue socket d[4]/outlet connection Da G[3]		63/2	63/2	63/2	63/2	63/2
Rec. inlet/outlet pipe, PVC pipe, d[4]		63/63	63/63	63/63	63/63	75/75
Power input P_1/output P_2 [1] (kW)	1~ 230 V	0.90/0.55	1.10/0.75	1.33/1.00	-/-	2.00/1.50
Rated current (A)	1~ 230 V	4.20	5.20	6.50	-/-	8.80
Power input P_1/output P_2 [1] (kW)	3~ Y/Δ 400/230 V	-/-	-/-	-/-	1.33/1.10	1.77/1.50
Rated current (A)	3~ Y/Δ 400/230 V	-/-	-/-	-/-	2.40/4.15	3.30/5.72
Net weight (kg)	1~/3~	10.00/-	10.00/-	13.00/-	-/16.00	14.50/17.00

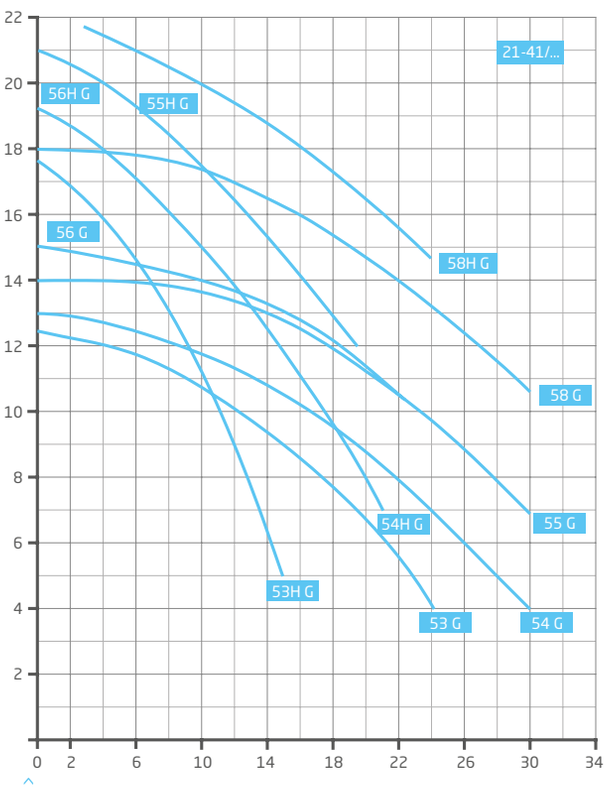
For more detailed information regarding the motor protection please see page 143.

Article no	Description	Voltage	Power output P_2	Net RRP	Gross RRP[7]
234.1530.138	BADU 21-41/53 G	1~ 230 V	0.55 kW	**505.44 €**	601.47 €
234.1530.338	BADU 21-41/53H G	1~ 230 V	0.55 kW	**520.81 €**	619.76 €
234.1540.138	BADU 21-41/54 G	1~ 230 V	0.75 kW	**607.89 €**	723.39 €
234.1540.338	BADU 21-41/54H G	1~ 230 V	0.75 kW	**625.83 €**	744.74 €
234.1550.138	BADU 21-41/55 G	1~ 230 V	1.00 kW	**660.83 €**	786.39 €
234.1550.338	BADU 21-41/55H G	1~ 230 V	1.00 kW	**675.35 €**	803.67 €
234.1580.138	BADU 21-41/58 G	1~ 230 V	1.50 kW	**799.13 €**	950.96 €
234.1580.338	BADU 21-41/58H G	1~ 230 V	1.50 kW	**811.09 €**	965.20 €
234.1560.137	BADU 21-41/56 G	3~ Y/Δ 400/230 V	1.10 kW	**689.00 €**	819.91 €
234.1560.337	BADU 21-41/56H G	3~ Y/Δ 400/230 V	1.10 kW	**706.93 €**	841.25 €
234.1580.137	BADU 21-41/58 G	3~ Y/Δ 400/230 V	1.50 kW	**729.13 €**	867.66 €
234.1580.337	BADU 21-41/58H G	3~ Y/Δ 400/230 V	1.50 kW	**747.05 €**	888.99 €

12–30 m³/h

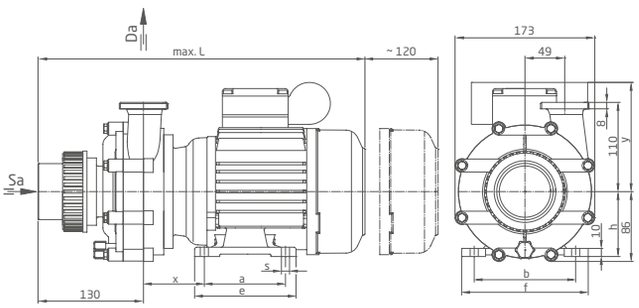
1–30 m³

Performance



Dimensions

Detailed dimensions available on request or at badu.de



Type	a	b	e	f	h	s	x	y	L
BADU 21-41/53 G/H G 1~	90	112	115	138	71	7	84	132	372
BADU 21-41/53 G/H G 3~	90	112	115	138	71	7	84	111	372
BADU 21-41/54 G/H G 1~	90	112	115	138	71	7	84	132	372
BADU 21-41/54 G/H G 3~	90	112	115	138	71	7	84	119	372
BADU 21-41/55 G/H G 1~	100	125	125	153	80	9	75	128	410
BADU 21-41/56 G/H G 3~	100	125	125	153	80	9	75	128	410
BADU 21-41/58 G/H G 1~	100	125	125	153	80	9	75	142	410
BADU 21-41/58 G/H G 3~	100	125	125	153	80	9	75	128	435

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 bellow-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.

For suitable connection unions please see page 132.

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

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[3]		2¾/2¾	2¾/2¾	2¾/2¾	2¾/2¾	2¾/2¾	2¾/2¾
Rec. inlet/outlet pipe, PVC pipe, d[4]		90/75	90/75	90/75	90/75	90/75	90/75
Power input P_1/output P_2 [1] (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_1/output P_2 [1] (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

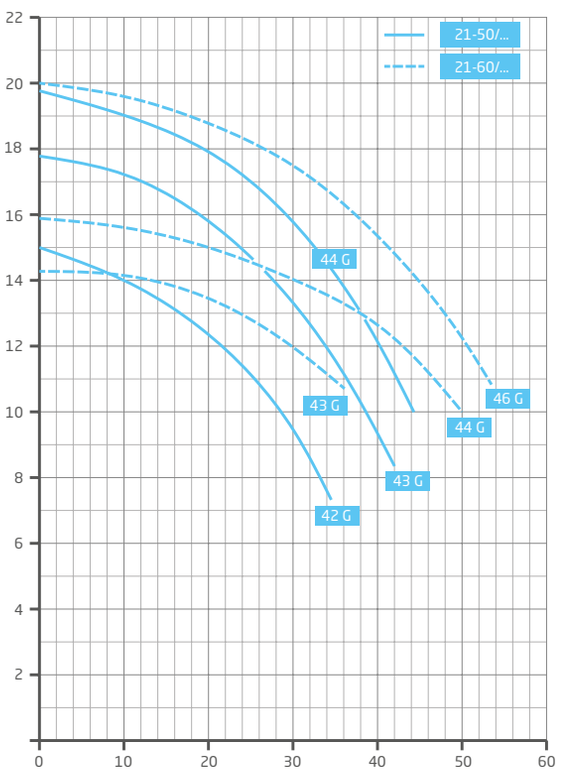
For more detailed information regarding the motor protection please see page 143.

Article no	Description	Voltage	Power output P_2	Net RRP	Gross RRP[7]
235.0420.138	BADU 21-50/42 G	1~ 230 V	1.10 kW	**878.55 €**	1,045.47 €
235.0430.138	BADU 21-50/43 G	1~ 230 V	1.60 kW	**962.21 €**	1,145.03 €
235.0440.138	BADU 21-50/44 G	1~ 230 V	2.20 kW	**1,152.60 €**	1,371.59 €
236.0430.138	BADU 21-60/43 G	1~ 230 V	1.60 kW	**1,004.91 €**	1,195.84 €
236.0440.138	BADU 21-60/44 G	1~ 230 V	2.20 kW	**1,165.41 €**	1,386.84 €
236.0460.138	BADU 21-60/46 G	1~ 230 V	3.00 kW	**1,395.93 €**	1,661.16 €
235.0420.137	BADU 21-50/42 G	3~ Y/Δ 400/230 V	1.10 kW	**794.01 €**	944.87 €
235.0430.137	BADU 21-50/43 G	3~ Y/Δ 400/230 V	1.60 kW	**840.97 €**	1,000.75 €
235.0440.137	BADU 21-50/44 G	3~ Y/Δ 400/230 V	2.20 kW	**921.23 €**	1,096.26 €
236.0430.137	BADU 21-60/43 G	3~ Y/Δ 400/230 V	1.60 kW	**891.35 €**	1,060.71 €
236.0440.137	BADU 21-60/44 G	3~ Y/Δ 400/230 V	2.20 kW	**957.09 €**	1,138.94 €
236.0460.137	BADU 21-60/46 G	3~ Y/Δ 400/230 V	3.00 kW	**1,123.57 €**	1,337.05 €

20–50 m³/h

30–100 m³

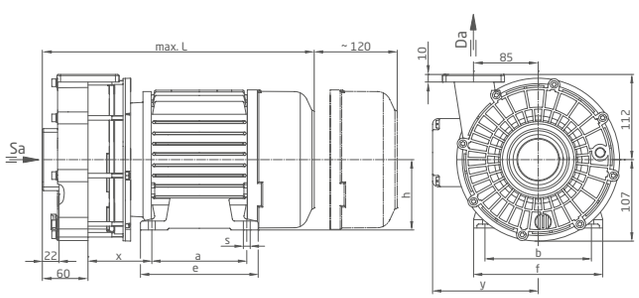
Performance



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 21-50/42 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

BADU® 21-80

Universal, large circulation pump. Reliable and high-powered. For whirlpools, counter swim units and swimming pool attractions.

Field of application
Swimming pools and industrial filter units, counter swim units, air conditioning units, pool cleaning devices and many more applications with a flow rate of up to 90 m³/h.

Design
The bellow-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.

BADU 21-80/... SG conditionally self-priming up to 0.5 m, on request.
For suitable connection unions please see page 132.

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
Mechanical seal ..... carbon/ceramic/NBR
Motor shaft ..... stainless steel
Screws ..... galvanised steel
Elastomers ..... NBR/viton

Technical data at 50 Hz	BADU 21-80/	31R G	32R G	32 G	33 G	34 G
Inlet Sa/outlet connection Da R[2]		2¾/2¾**)	2¾/2¾**)	2¾/2¾**)	2¾/2¾**)	2¾/2¾**)
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*)	-/-
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~	17.00/15.00	18.00/24.00	-/19.00	30.00/27.00	-/35.00

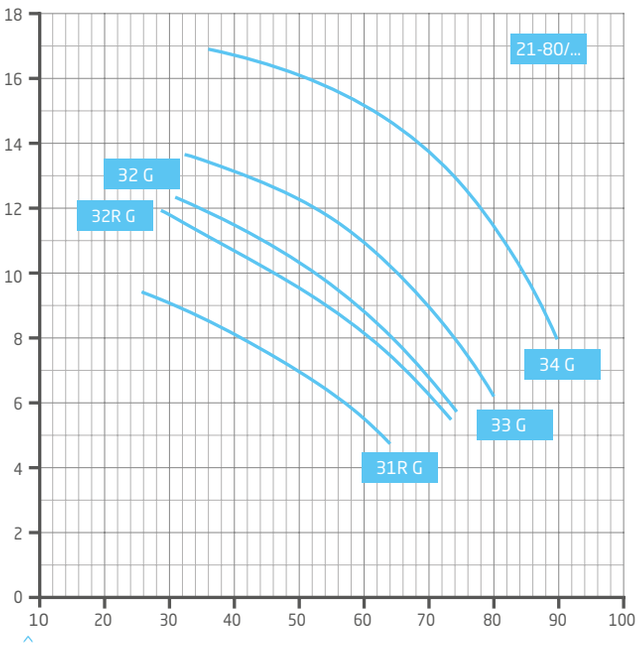
For more detailed information regarding the motor protection please see page 143.
*) Start-up current approx. 82 A. **) Pumps also available with Ø 82 mm hose connections.

Article no	Description	Voltage	Power output P_2	Net RRP	Gross RRP[7]
238.0310.138	BADU 21-80/31R G	1~ 230 V	1.60 kW	**1,179.07 €**	1,403.09 €
238.0320.138	BADU 21-80/32R G	1~ 230 V	2.20 kW	**1,349.83 €**	1,606.30 €
238.0330.138	BADU 21-80/33 G	1~ 230 V	3.00 kW	**2,040.53 €**	2,428.23 €
238.0310.137	BADU 21-80/31R G	3~ Y/Δ 400/230 V	1.60 kW	**1,051.85 €**	1,251.70 €
238.0320.537	BADU 21-80/32R G	3~ Y/Δ 400/230 V	2.20 kW	**1,124.43 €**	1,338.07 €
238.0320.137	BADU 21-80/32 G	3~ Y/Δ 400/230 V	2.60 kW	**1,259.33 €**	1,498.60 €
238.0330.137	BADU 21-80/33 G	3~ Y/Δ 400/230 V	3.00 kW	**1,259.33 €**	1,498.60 €
238.0340.137	BADU 21-80/34 G	3~ Y/Δ 690/400 V	4.00 kW	**1,728.05 €**	2,056.38 €

40-80 m³/h

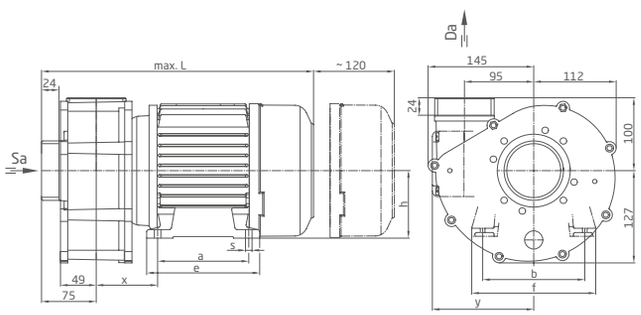
30-100 m³

Performance



Dimensions

Detailed dimensions available on request or at badu.de



Type		a	b	e	f	h	s	x	y	L
BADU 21-80/31R G	1~	125	140	155	170	90	9	85	139	373
BADU 21-80/31R G	3~	125	140	155	170	90	9	100	139	397
BADU 21-80/32R G	1~	125	140	155	170	90	9	100	139	388
BADU 21-80/32R G	3~	140	160	176	195	100	12	107	155	422
BADU 21-80/32 G	3~	140	160	176	195	100	12	107	155	422
BADU 21-80/33 G	1~	140	160	176	195	100	12	107	154	442
BADU 21-80/33 G	3~	140	160	176	195	100	12	107	155	422
BADU 21-80/34 G	3~	140	160	176	195	100	12	107	155	439

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 bellow-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.

For suitable connection unions please see page 132.

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

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[*]	-/-
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	-/35.00

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

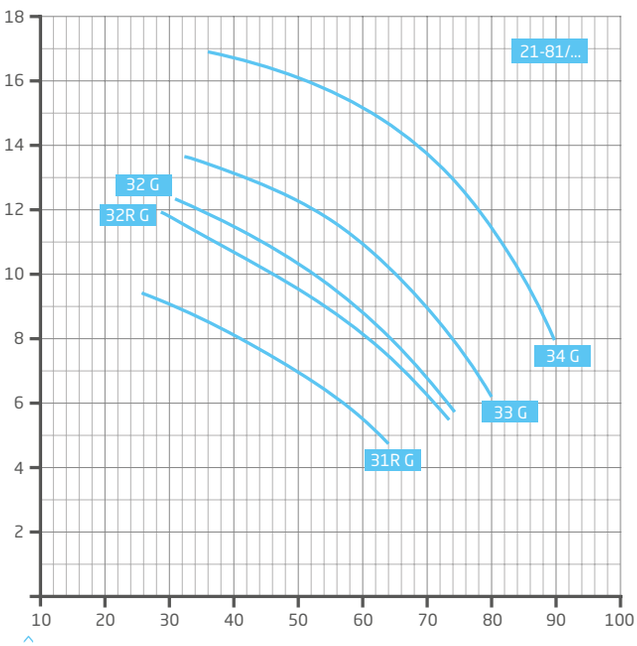
[*] Start-up current approx. 82 A.

Article no	Description	Voltage	Power output P_2	Net RRP	Gross RRP[7]
238.1310.238	BADU 21-81/31R G	1~ 230 V	1.60 kW	**1,179.07 €**	1,403.09 €
238.1320.238	BADU 21-81/32R G	1~ 230 V	2.20 kW	**1,349.83 €**	1,606.30 €
238.1330.338	BADU 21-81/33 G	1~ 230 V	3.00 kW	**2,040.53 €**	2,428.23 €
238.1310.237	BADU 21-81/31R G	3~ Y/Δ 400/230 V	1.60 kW	**1,051.85 €**	1,251.70 €
238.1320.237	BADU 21-81/32R G	3~ Y/Δ 400/230 V	2.20 kW	**1,124.43 €**	1,338.07 €
238.1320.337	BADU 21-81/32 G	3~ Y/Δ 400/230 V	2.60 kW	**1,259.33 €**	1,498.60 €
238.1330.337	BADU 21-81/33 G	3~ Y/Δ 400/230 V	3.00 kW	**1,259.33 €**	1,498.60 €
238.1340.337	BADU 21-81/34 G	3~ Y/Δ 690/400 V	4.00 kW	**1,728.05 €**	2,056.38 €

40-80 m³/h

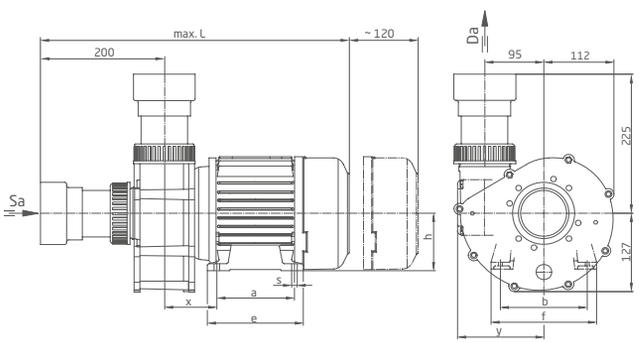
30-100 m³

Performance



Dimensions

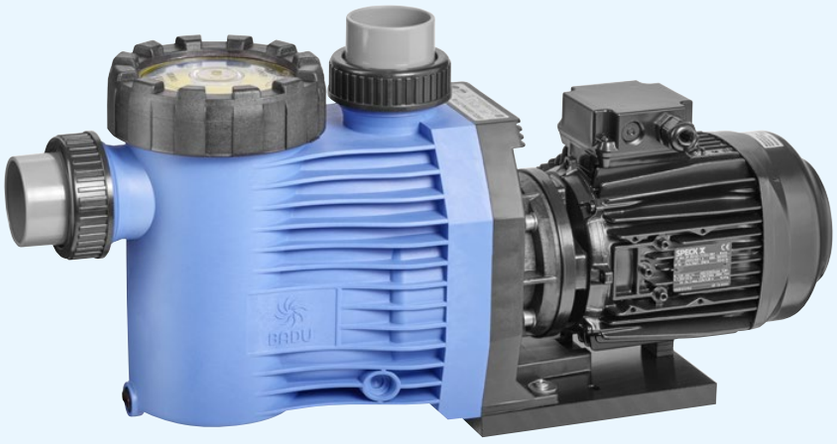
Detailed dimensions available on request or at badu.de



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

BADU® AK version

Circulation pump with motor/pump separation for optimised use in salt water applications. For a longer service life in corrosive environments.



BADU Gamma-AK

www.tuv.com
ID 0000021507

Field of application

For thermal water, thermal brine, sea water aquariums with artificial salt water, brine units as well as various problematic media depending on the concentrations and components.
ATTENTION: When ordering please always state the intended medium so that the resistance of the pump can be checked.

Design

The pump corresponds to the respective standard version, except that the gland housing is not mounted directly to the A-side motor bearing, but is separated from the motor by an intermediate lantern and labyrinth disk.
Thus, leaking medium and crystallizing minerals or salts cannot come into contact with the motor and its bearing.
This guarantees a considerably longer life for this application compared to standard versions.

Special sealing materials available on request.

Materials used

See standard version.

Lantern	PPE GF 30
Mechanical seal	SiC/SiC/viton
Screws	stainless steel
Elastomers	viton

Motors

Special motors on request.[1)]

Available types

BADU Magna, BADU Gamma, BADU Prime, BADU Resort, BADU Bronze, BADU 93, BADU FA, BADU 42, BADU 43, BADU 44, BADU 21-40, BADU 21-41, BADU 21-50/21-60, BADU 21-80, BADU 21-81.
Further types on request.

Technical data

See standard version.

GS approval

Valid for all AK version pumps which also have GS approval in the standard version.

^
BADU 21-50/...-AK

Performance

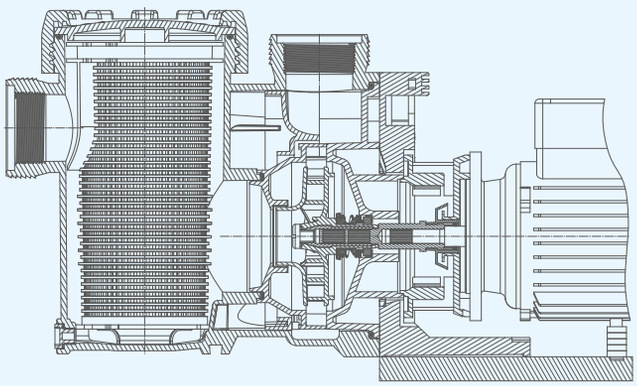
See standard version.

Dimensions

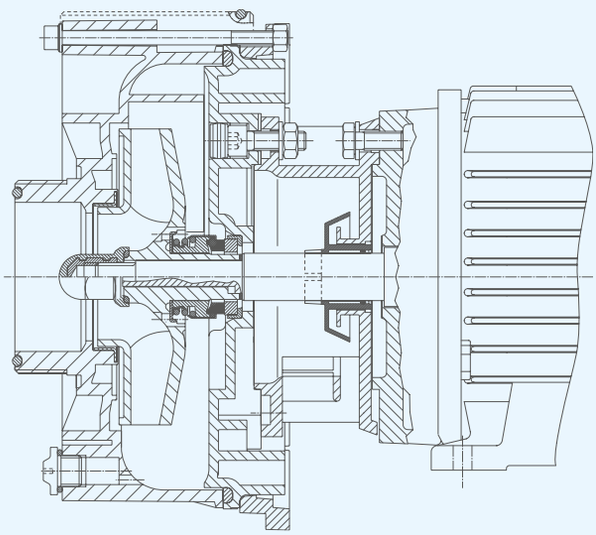
Detailed dimensions available on request or at badu.de

See standard version.
Note:
Length of the selected pump + approx. 65 mm = total length of AK version

Sectional drawing BADU Gamma-AK



Sectional drawing BADU 21-50/...-AK



Counter swim units

Add a bit of movement to your pool and your life.

There are powerful BADU JET counter swim units to meet everyone's taste – from dreamy, gentle waves to powerful currents for cardio and fitness training. Available in overhang and built-in models; from modest to luxurious.

Product overview

BADUJET Vogue
Performance: 58 m³/h
Page 90

BADUJET Vogue Deluxe
Performance: 58 m³/h
Page 92

BADUJET Primavera
Performance: 85 m³/h
Page 94

BADUJET Primavera Deluxe
Performance: 85 m³/h
Page 96

NEW

BADUJET Turbo Pro
Performance: 350 m³/h
Page 98

BADUJET Perla
Performance: 40 m³/h
Page 100

BADUJET Riva
Performance: 58 m³/h
Page 102

BADUJET Stella
Performance: 75 m³/h
Page 104

Leistungsübersicht für Gegenstromanlagen > siehe nächste Seite.

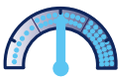
BADU JET Fact checker

Well informed for the right decision: The BADU JET fact checker. Relevant counter swim unit features at a glance and in direct comparison.



Comparison parameters	BADU JET	Vogue	Vogue Deluxe	Primavera
				
Pump flow rate (m³/h)		54-58	54-58	75-85
Pump	BADU	21-60/45 GT 27°, 21-60/44 GT 27°	21-60/45 GT 27°, 21-60/44 GT 27°	21-81/33 G 29°, 21-81/34 G 29°
Single phase 1~ 230 V*)		●	●	●
Three-phase 3~ 400/230 V*)		●	●	●
Number of nozzles		1	1	2
Accessories	see page	126	126	126
LED light		white/multicoloured	white/multicoloured	white/multicoloured
Pneumatic button		●	○	●
Piezo button		○	●	○
Wireless control		Optional	Optional	●
Air regulation		●	●	●
Adjustable flow rate		●	●	●
Winter panel kit		●	●	●
Type of installation		Fixed during initial build	Fixed during initial build	Fixed during initial build
Catalogue page		90	92	94

*) Special voltages on request.

Primavera Deluxe	Turbo Pro	Perla	Riva	Stella
				
75-85	150-350	40	54-58	75
21-81/33 G 29°, 21-81/34 G 29°	○	21-81/31 RG	21-81/32 G, 21-81/32 RG	21-81/33 G
●	○	●	●	○
●	●	●	●	●
2	1	1	1	2
126	126	126	126	126
white/multicoloured	○	white/multicoloured	white/multicoloured	white/multicoloured
○	○	●	●	●
●	●	○	○	○
●	●	Optional	Optional	Optional
●	○	●	●	●
●	●	●	●	●
●	○	○	○	○
Fixed during initial build	Fixed during initial build	Expansion	Expansion	Expansion
96	98	100	102	104

BADU® JET Vogue

Attractive design unit for discerning customers. Red Dot award winning aesthetics with stainless steel cover.

Field of application

For mounting into walls of all pool models as a conversation piece, for fitness training, as a wave or bubble bath, for underwater massages (consult physician), for endless, no-turn swimming even in the smallest pool.

Design

A powerful jet pump is connected via suction and pressure lines with the plastic jet housing which is flush-mounted into the pool wall. The BADU pump draws the water in and returns it to the swimming pool with a powerful stream via an adjustable nozzle which swivels 60° in each direction. The large number of openings around the nozzle housing guarantees an extremely low priming flow. The sinuous and homogeneous design of its cover, which is made of high quality stainless steel, is a real eye-catcher. A built-in LED lamp, which can be operated from the pool, as well as the pneumatic switch and the regulation of the air bubble bath, add to a relaxed atmosphere. The pump and the LED light can be switched off automatically via the integrated timer. On delivery, this is always set to 15 minutes operating time.

For recommended accessories as well as the winter kit, please see page 126.

Materials used

Cover ..... stainless steel
Main housing ..... ABS
Nozzle housing ..... ABS
Interior parts ..... ABS/stainless steel
Suction/pressure line ..... PVC
Ball valves and fittings ..... PVC

Technical data at 50 Hz	BADU JET Vogue	21-60/45 GT 27°	21-60/44 GT 27°
Pump flow rate (m³/h)	3~/1~	58	54
Voltage	3~/1~	3 N~ 400/230 V	1~ 230 V
Power input P_1/output P_2 [1] (kW)	3~/1~	3.18/2.60	2.89/2.20
Number of nozzles (Ø 40 mm)		1	1
Flow pressure at nozzle (bar)	3~/1~	1.10	1.00
Flow velocity in centre 2 m from the nozzle (m/s)	3~/1~	1.20	1.10
Massage pressure (bar) max.	3~/1~	1.60	1.40
Multi-directional swivel nozzle (degrees)		60	60
Net weight (kg)	3~/1~	33.00	33.50

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

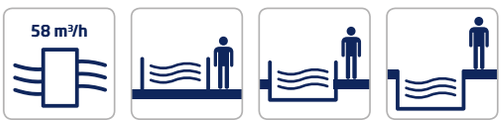
Article no	Description	Variation	Voltage	Power output P_2	Net RRP	Gross RRP[7]
232.1100.000	BADU JET Vogue[6]	Pre-assembly kit			**321.88 €**	383.04 €
232.2400.000	BADU JET Vogue[6] - white LED	Final assembly kit	1~ 230 V	2.20 kW	**3,079.59 €**	3,664.71 €
232.2420.000	BADU JET Vogue[6] - multicoloured LED	Final assembly kit	1~ 230 V	2.20 kW	**3,236.68 €**	3,851.65 €
232.2200.000	BADU JET Vogue[6] - white LED	Final assembly kit	3 N~ 400/230 V	2.60 kW	**2,971.16 €**	3,535.68 €
232.2220.000	BADU JET Vogue[6] - multicoloured LED	Final assembly kit	3 N~ 400/230 V	2.60 kW	**3,126.55 €**	3,720.59 €
232.1300.001	Ball valve kit				**121.24 €**	144.28 €
232.2000.402	Stainless steel hand rail for BADU JET Vogue, complete[6]				**715.11 €**	850.98 €

When ordering a complete unit please indicate the article number of the pre-assembly kit **and** the final assembly kit.

With stainless steel cover >

Optional stainless steel hand rail >

Scan the QR code for the BADU JET counter swim units application video ...



Scope of supply

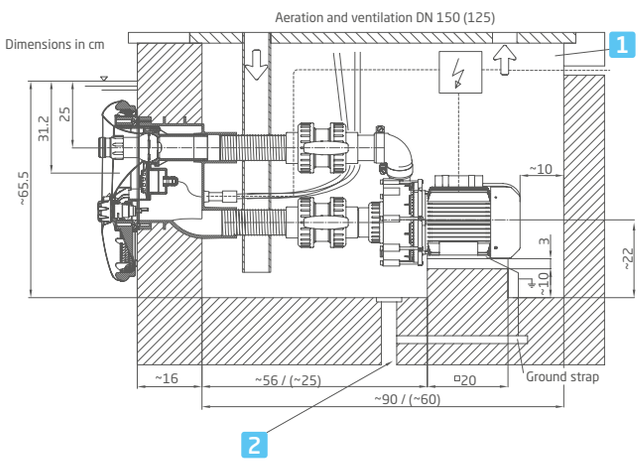
Pre-assembly kit
- Plastic housing
- Clamping ring, screws and seals

Final assembly kit
- Complete nozzle housing with a swivelling nozzle and screws
- Stainless steel cover
- 63 mm suction/pressure line
- Switching device
- BADU 21-60/45 GT 27° or BADU 21-60/44 GT 27°

Note
If you use longer suction and pressure lines, please make sure they are wide enough in order to avoid power loss – see page 142.

Dimensions
Detailed dimensions available on request or at badu.de

Recommended installation example



Sufficiently dimensioned drain required.
Dimensions in brackets [ ] only for BADU 21-81/33 1~ and BADU 21-81/34 3~

1 Shaft width min. 70 cm
2 Floor drainage

BADUJET Vogue Deluxe

A material variation on the BADUJET Vogue with a hint of luxury. Made completely from stainless steel and simply impeccable.

Field of application
For mounting into walls of all pool models as a conversation piece, for fitness training, as a wave or bubble bath, for underwater massages (consult physician), for endless, no-turn swimming even in the smallest pool.

Design
As with the BADUJET Vogue, however with nozzle and control elements made from stainless steel and with piezo buttons.

For recommended accessories as well as the winter kit, please see page 126.

Materials used
Cover ..... stainless steel
Main housing ..... ABS
Nozzle housing ..... ABS
Interior parts ..... ABS/stainless steel
Suction/pressure line ..... PVC
Ball valves and fittings ..... PVC
Control elements ..... stainless steel
Nozzle ..... ABS/stainless steel

Technical data at 50 Hz	BADUJET Vogue Deluxe	21-60/45 GT 27°	21-60/44 GT 27°
Pump flow rate (m³/h)	3~/1~	58	54
Voltage	3~/1~	3 N~ 400/230 V	1~ 230 V
Power input P_1/output P_2 [1] (kW)	3~/1~	3.18/2.60	2.89/2.20
Number of nozzles (Ø 40 mm)		1	1
Flow pressure at nozzle (bar)	3~/1~	1.10	1.00
Flow velocity in centre 2 m from the nozzle (m/s)	3~/1~	1.20	1.10
Massage pressure (bar) max.	3~/1~	1.60	1.40
Multi-directional swivel nozzle (degrees)		60	60
Net weight (kg)	3~/1~	31.00	33.00

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

Article no	Description	Variation	Voltage	Power output P_2	Net RRP	Gross RRP[7]
232.1100.000	BADUJET Vogue Deluxe[6]	Pre-assembly kit			**321.88 €**	383.04 €
232.4400.000	BADUJET Vogue Deluxe[6] - white LED	Final assembly kit	1~ 230 V	2.20 kW	**3,593.56 €**	4,276.34 €
232.4420.000	BADUJET Vogue Deluxe[6] - multicoloured LED	Final assembly kit	1~ 230 V	2.20 kW	**3,751.52 €**	4,464.31 €
232.4200.000	BADUJET Vogue Deluxe[6] - white LED	Final assembly kit	3 N~ 400/230 V	2.60 kW	**3,483.43 €**	4,145.28 €
232.4220.000	BADUJET Vogue Deluxe[6] - multicoloured LED	Final assembly kit	3 N~ 400/230 V	2.60 kW	**3,642.23 €**	4,334.25 €
232.1300.001	Ball valve kit				**121.24 €**	144.28 €
232.2000.402	Stainless steel hand rail for BADUJET Vogue Deluxe, complete[6]				**715.11 €**	850.98 €

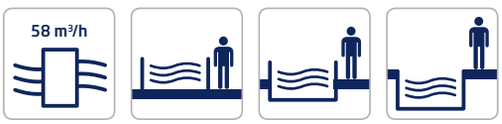
When ordering a complete unit please indicate the article number of the pre-assembly kit **and** the final assembly kit.

Cover, nozzles and control elements made from stainless steel >

Nozzle housing with piezo button >

Optional stainless steel hand rail >

Scan the QR code for the BADU JET counter swim units application video ...



Scope of delivery

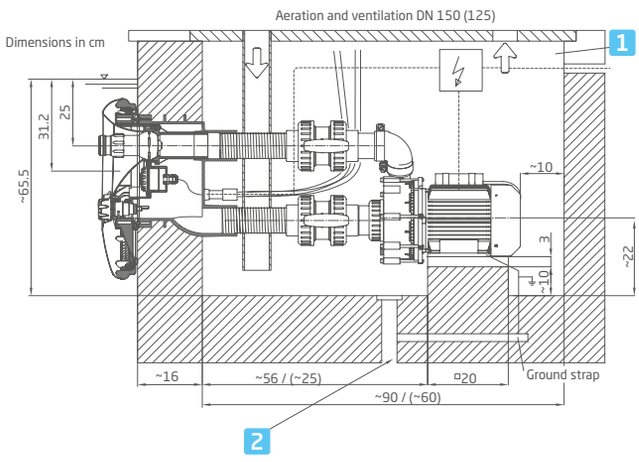
Pre-assembly kit
- Plastic housing
- Clamping ring, screws and seals

Final assembly kit
- Complete nozzle housing with a swivelling nozzle and screws
- Stainless steel cover
- 63 mm suction/pressure line
- Switching device
- BADU 21-60/45 GT 27° or BADU 21-60/44 GT 27°

Note
If you use longer suction and pressure lines, please make sure they are wide enough in order to avoid power loss – see page 142.

Dimensions
Detailed dimensions available on request or at badu.de

Recommended installation example



Sufficiently dimensioned drain required.
Dimensions in brackets [ ] only for BADU 21-81/33 1~ and BADU 21-81/34 3~

1 Shaft width min. 70 cm
2 Floor drainage

BADU® JET Primavera

Innovative technology for ambitious swimmers. With optimum performance.

Field of application

For mounting into walls of all pool models as a conversation piece, for fitness training, as a wave or bubble bath, for underwater massages (consult physician), for endless, no-turn swimming even in the smallest pool.

Design

A powerful jet pump is connected via suction and pressure lines with the plastic jet housing which is flush-mounted into the pool wall. The BADU pump draws the water in and returns it to the swimming pool with a powerful stream via two adjustable nozzles which swivel 60° in each direction. The large number of openings around the nozzle housing guarantees an extremely low priming flow. The sinuous and homogeneous design of its cover, which is made of high quality stainless steel, is a real eye-catcher. The pneumatic on/off switch and the regulation for the air-intake, which gives the sparkling bubble bath effect, are both integrated in the nozzle housing. The pump and the LED light can be switched off automatically via the integrated timer. On delivery, this is always set to 15 minutes operating time.

For recommended accessories as well as the winter kit, please see page 126.

Materials used

Main housing ..... ABS
Nozzle housing ..... ABS
Interior parts ..... PP/PC/ASA
Suction/pressure line ..... PVC
Shut-off valve and fittings ..... PVC
Cover/hand rail ..... stainless steel

Technical data at 50 Hz	BADU JET Primavera	21-81/33 G 29°	21-81/34 G 29°
Pump flow rate (m³/h)	3~/1~	75	85
Voltage	3~/1~	3 N~ 400/230 V/1~ 230 V	3 N~ Δ 400 V
Power input P_1/output P_2 [1] (kW)	3~/1~	3.74/3.00 / 3.90/3.00	4.55/4.00
Number of nozzles (Ø 40 mm)		2	2
Flow pressure at nozzles (bar)	3~/1~	1.00	1.00
Flow velocity in centre 2 m from the nozzles (m/s)	3~/1~	1.10	1.20
Massage pressure (bar) max.	3~/1~	1.60	1.80
Multi-directional swivel nozzles (degrees)		60	60
Net weight (kg)	3~/1~	55.00	46.00

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

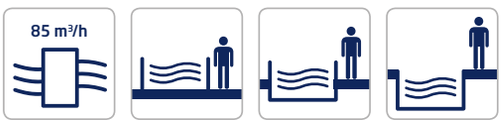
Article no	Description	Variation	Voltage	Power output P_2	Net RRP	Gross RRP[7]
232.6100.000	BADU JET Primavera[6]	Pre-assembly kit			**552.40 €**	657.36 €
232.7400.000	BADU JET Primavera[6] - white LED	Final assembly kit	1~ 230 V	3.00 kW	**3,317.80 €**	3,948.18 €
232.7420.000	BADU JET Primavera[6] - multicoloured LED	Final assembly kit	1~ 230 V	3.00 kW	**3,317.80 €**	3,948.18 €
232.7200.000	BADU JET Primavera[6] - white LED	Final assembly kit	3 N~ 400/230 V	3.00 kW	**3,205.09 €**	3,814.06 €
232.7220.000	BADU JET Primavera[6] - multicoloured LED	Final assembly kit	3 N~ 400/230 V	3.00 kW	**3,205.09 €**	3,814.06 €
232.7800.000	BADU JET Primavera[6] - white LED	Final assembly kit	3 N~ Δ 400 V	4.00 kW	**3,428.79 €**	4,080.26 €
232.7820.000	BADU JET Primavera[6] - multicoloured LED	Final assembly kit	3 N~ Δ 400 V	4.00 kW	**3,428.79 €**	4,080.26 €
232.6100.100	BADU JET Primavera additional kit for tiled pools				**44.15 €**	52.54 €

When ordering a complete unit please indicate the article number of the pre-assembly kit **and** the final assembly kit.

With stainless steel cover >

Delivery with stainless steel hand rail and wireless control >

Scan the QR code for the BADU JET counter swim units application video...



Scope of delivery

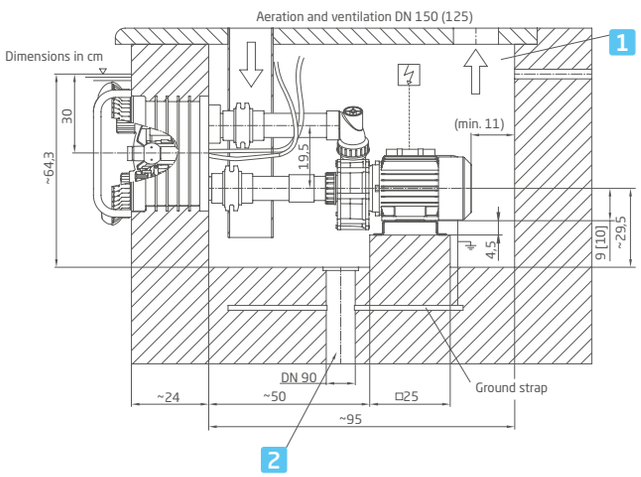
Pre-assembly kit
- Plastic housing
- Shut-off valve
- Clamping ring, screws and seals

Final assembly kit
- Complete nozzle housing with two swivelling nozzles and screws
- Stainless steel cover and suction cover
- 75 mm suction/pressure line
- Switching device
- BADU 21-81/33 G 29° or BADU 21-81/34 G 29°
- Hand rail and waterproof BADU JET wireless controll II

Note
If you use longer suction and pressure lines, please make sure they are wide enough in order to avoid power loss – see page 142.

Dimensions
Detailed dimensions available on request or at badu.de

Recommended installation example



Sufficiently dimensioned drain required
Dimensions in brackets [ ] only for BADU 21-81/33 1~ and BADU 21-81/34 3~

1 Shaft width min. 70 cm
2 Floor drainage

BADU® JET Primavera Deluxe

A material variation on the BADU JET Primavera, without any compromises. Made completely from stainless steel and therefore high quality and wear resistant.

Field of application
For mounting into walls of all pool models as a conversation piece, for fitness training, as a wave or bubble bath, for underwater massages (consult physician), for endless, no-turn swimming even in the smallest pool.

Design
As with the BADU JET Primavera, however with nozzles and control elements made from stainless steel and with piezo buttons.

For recommended accessories as well as the winter kit, please see page 126.

Materials used
Main housing ..... ABS
Nozzle housing ..... ABS
Interior parts ..... PP/PC/ASA
Suction/pressure line ..... PVC
Shut-off valve and fittings ..... PVC
Cover/hand rail ..... stainless steel
Control elements ..... stainless steel
Nozzles ..... ABS/stainless steel

Technical data at 50 Hz	BADU JET Primavera Deluxe	21-81/33 G 29°	21-81/34 G 29°
Pump flow rate (m³/h)	3~/1~	75	85
Voltage	3~/1~	3 N~ 400/230 V/1~ 230 V	3 N~ Δ 400 V
Power input P_1/output P_2 [1] (kW)	3~/1~	3.74/3.00 / 3.90/3.00	4.55/4.00
Number of nozzles (Ø 40 mm)		2	2
Flow pressure at nozzles (bar)	3~/1~	1.00	1.00
Flow velocity in centre 2 m from the nozzles (m/s)	3~/1~	1.10	1.20
Massage pressure (bar) max.	3~/1~	1.60	1.80
Multi-directional swivel nozzles (degrees)		60	60
Net weight (kg)	3~/1~	62.00	48.00

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

Article no	Description	Variation	Voltage	Power output P_2	Net RRP	Gross RRP[7]
232.6100.000	BADU JET Primavera Deluxe[6]	Pre-assembly kit			**552.40 €**	657.36 €
232.7401.000	BADU JET Primavera Deluxe[6] - white LED	Final assembly kit	1~ 230 V	3.00 kW	**3,538.07 €**	4,210.30 €
232.7421.000	BADU JET Primavera Deluxe[6] - multicoloured LED	Final assembly kit	1~ 230 V	3.00 kW	**3,538.07 €**	4,210.30 €
232.7201.000	BADU JET Primavera Deluxe[6] - white LED	Final assembly kit	3 N~ 400/230 V	3.00 kW	**3,427.08 €**	4,078.23 €
232.7221.000	BADU JET Primavera Deluxe[6] - multicoloured LED	Final assembly kit	3 N~ 400/230 V	3.00 kW	**3,427.08 €**	4,078.23 €
232.7801.000	BADU JET Primavera Deluxe[6] - white LED	Final assembly kit	3 N~ Δ 400 V	4.00 kW	**3,651.63 €**	4,345.44 €
232.7821.000	BADU JET Primavera Deluxe[6] - multicoloured LED	Final assembly kit	3 N~ Δ 400 V	4.00 kW	**3,651.63 €**	4,345.44 €
232.6100.100	BADU JET Primavera Deluxe additional kit for tiled pools				**44.15 €**	52.54 €

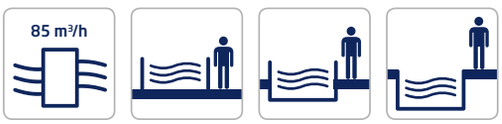
When ordering a complete unit please indicate the article number of the pre-assembly kit **and** the final assembly kit.

Cover, nozzles and control elements made from stainless steel >

Nozzle housing with piezo button >

Delivery with stainless steel hand rail and wireless control >

Scan the QR code for the BADU JET counter swim units application video ...



Scope of delivery

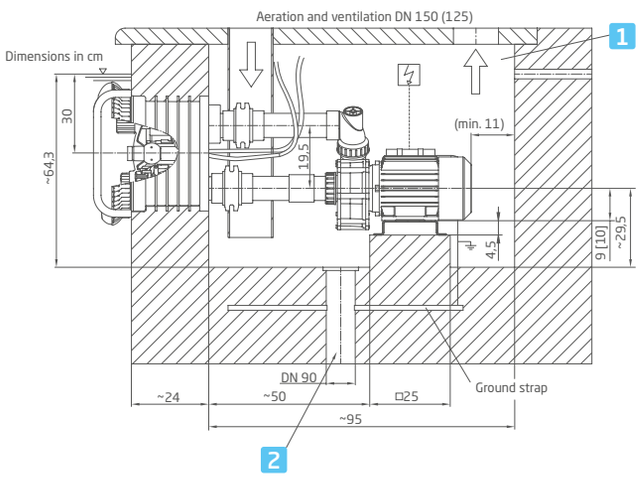
Pre-assembly kit
- Plastic housing
- Shut-off valve
- Clamping ring, screws and seals

Final assembly kit
- Complete nozzle housing with two swivelling nozzles and screws
- Stainless steel cover and suction cover
- 75 mm suction/pressure line
- Switching device
- BADU 21-81/33 G 29° or BADU 21-81/34 G 29°
- Hand rail and waterproof BADU JET wireless controll II

Note
If you use longer suction and pressure lines, please make sure they are wide enough in order to avoid power loss – see page 142.

Dimensions
Detailed dimensions available on request or at badu.de

Recommended installation example



Sufficiently dimensioned drain required
Dimensions in brackets [ ] only for BADU 21-81/33 1~ and BADU 21-81/34 3~

1 Shaft width min. 70 cm
2 Floor drainage

BADUJET® Turbo Pro

Innovation, performance and sophisticated design combined. Welcome to the limit.

Field of application
For mounting into walls of all pool models, up to a wall thickness of 7 mm, except for round pools.
For performance oriented professional workouts, relaxation, rehabilitation training, fitness or leisure.

Design
The built-in main housing uses innovative propeller technology to draw water in via the cover and return it to the swimming pool with a powerful stream. The system is driven by an efficient, fanless, fully encapsulated permanent magnet motor.
Power control as well as switching the power on and off is carried out via the integrated piezo buttons or a remote control.

Materials used
Main housing ..... ABS
Nozzle housing ..... ABS
Covers ..... ABS/stainless steel
Intermediate flange ..... PPE
Drive unit ..... PPE/PP/stainless steel
Plain bearing ..... SiC/SiC
Screws ..... stainless steel

Scope of delivery standard assembly kit for design 1 and 2
Plastic main housing, suction cover, stainless steel cover design 1 or design 2, propeller unit, nozzle unit, piezo buttons, seals, screws.

Scope of delivery drive set 3 N~
Motor unit, frequency converter, control box, remote control, screws, shielded motor cable, 10 m, 25 m, 45 m.

Technical data at 50/60 Hz	**BADUJET Turbo Pro**	**Frequency converter**
Performance (kW)	3~	4.00
Voltage	3~	3~ 380-480 V
Net weight (kg)	3~	6.00
Technical data at 50/60 Hz	**BADUJET Turbo Pro**	**Drive unit**
Pump flow rate (m³/h)	3~	150-350
Power input P_1/ output P_2 [1)] (kW)	3~	3.60/3.00
Number of nozzles (Ø 172 mm)	3~	1
Flow velocity (m/s)	3~	1.80-4.10
Multi-directional swivel nozzle (degrees)	3~	±5
Net weight (kg)	3~	51.50

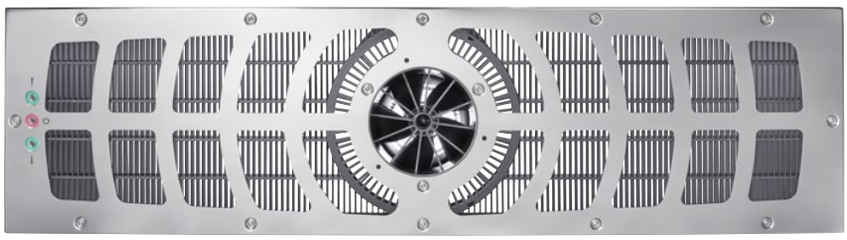
For more detailed information regarding the motor protection please see page 143.

Article no	**Description**	**Variation**	**Voltage**	**Power output P_2**	**Net RRP**	**Gross RRP[7)]**
232.5100.000	BADUJET Turbo Pro[6)], Design 1	Standard assembly kit			**5,377.96 €**	6,399.77 €
232.5120.000	BADUJET Turbo Pro[6)], Design 2	Standard assembly kit			**5,377.96 €**	6,399.77 €
232.5200.000	BADUJET Turbo Pro	Drive set, 10 m	3 N~	3.00 kW	**5,377.96 €**	6,399.77 €
232.5200.001	BADUJET Turbo Pro	Drive set, 25 m	3 N~	3.00 kW	**5,531.65 €**	6,582.66 €
232.5200.002	BADUJET Turbo Pro	Drive set, 45 m	3 N~	3.00 kW	**5,685.33 €**	6,765.54 €
232.5000.402	BADUJET Turbo Pro additional kit for 8 - 17 mm wall strength				**43.55 €**	51.82 €
232.5000.403	BADUJET Turbo Pro additional kit for 18 - 27 mm wall strength				**43.55 €**	51.82 €

When ordering a complete unit please indicate the article number of the standard assembly kit **and** the drive set.
For pools with a wall thickness from 8 mm on request.

NEW

Design 1 >

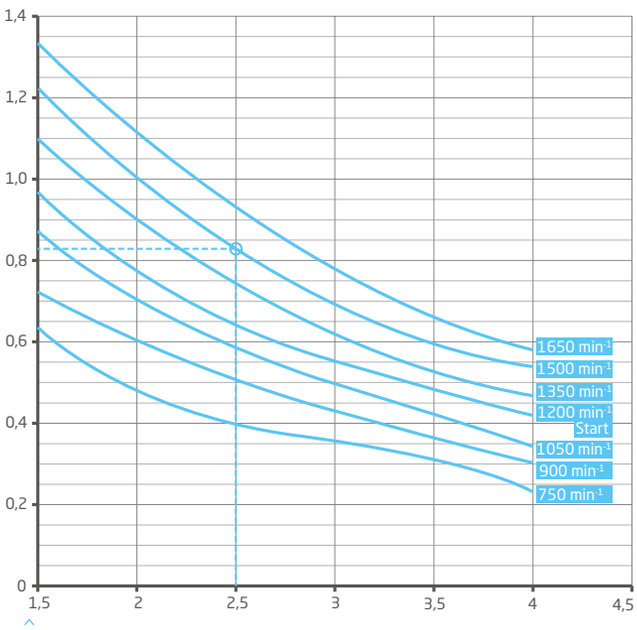


Design 2 >

Scan the QR code for the BADUJET counter swim units application video...

350 m³/h

Flow speed characteristics

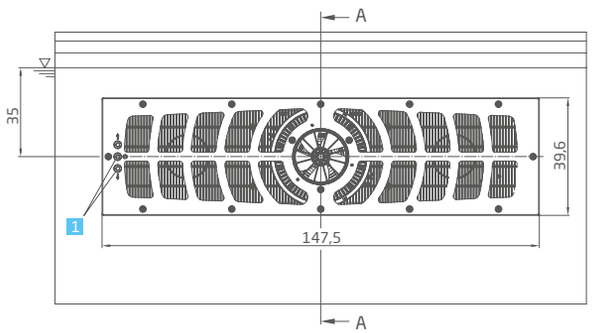


Example

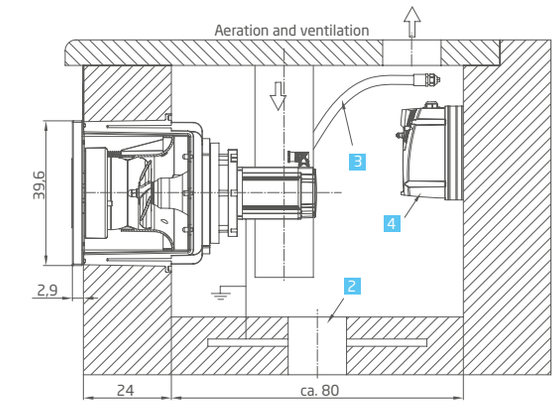
Approx 0.82 m/s flow speed at the centre of the flow jet at 1500 rpm and 2.50 m distance to the outlet nozzle.

Dimensions

Detailed dimensions available on request or at badu.de



Recommended installation example



Dimensions in cm

1 Piezo buttons
2 Floor drainage
3 Protective hose/piezo button wiring
4 Frequency converter

Counter swim units, submerged

BADUJET Perla

Overhang unit with high gloss finish and LED lighting. For small-size pools. UV resistant, scratch and stain resistant.

Field of application

For expanding all pool models as an attraction, for fitness training, as a wave or bubble bath, for underwater massages (consult physician), for endless, no-turn swimming even in the smallest pool.

Design

Water is drawn in through the suction inlet at the bottom of the unit using a powerful pump and led back into the pool through a strong jet via an adjustable nozzle. The BADUJET Perla is equipped with an easy-care, high quality, wood-look design inlay.

For recommended accessories see page 126.

Materials used

Housing ..... ABS/PMMA
Interior parts ..... PP/ABS/stainless steel
Control elements ..... ABS
Suction/pressure line ..... PVC/ABS

Technical data at 50 Hz	BADUJET Perla	21-81/31 RG	21-81/31 RG
Pump flow rate (m^3/h)	3~/1~	40	40
Voltage	3~/1~	3 N~ 400/230 V	1~ 230 V
Power input P_1/output P_2 [1] (kW)	3~/1~	2.07/1.60	2.12/1.60
Number of nozzles (Ø 40 mm)	3~/1~	1	1
Flow pressure at nozzle (bar)	3~/1~	0.90	0.90
Flow velocity in centre 2 m from the nozzle (m/s)	3~/1~	1.10	1.10
Massage pressure (bar) max.	3~/1~	1.20	1.20
Multi-directional swivel nozzle (degrees)	3~/1~	60	60
Net weight (kg)	3~/1~	35.00	38.00

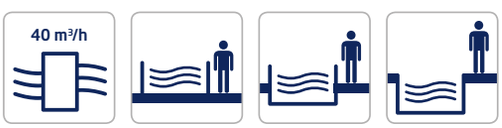
For more detailed information regarding the motor protection please see page 143.

Article no	Description	Voltage	Power output P_2	Net RRP	Gross RRP[7]
231.7600.000	BADUJET Perla - white LED	1~ 230 V	1.60 kW	**2,202.25 €**	2,620.68 €
231.7620.000	BADUJET Perla - multicoloured LED	1~ 230 V	1.60 kW	**2,352.52 €**	2,799.50 €
231.7500.000	BADUJET Perla - white LED	3 N~ 400/230 V	1.60 kW	**2,107.13 €**	2,507.48 €
231.7520.000	BADUJET Perla - multicoloured LED	3 N~ 400/230 V	1.60 kW	**2,257.40 €**	2,686.31 €
231.9851.000	Telescopic foot for above ground pools			**165.64 €**	197.11 €

The pumps in the counter swim units can be used for pool water with a salt concentration of up to 0.5 %, i.e. 5 g/l.
For higher salt concentrations please contact us.

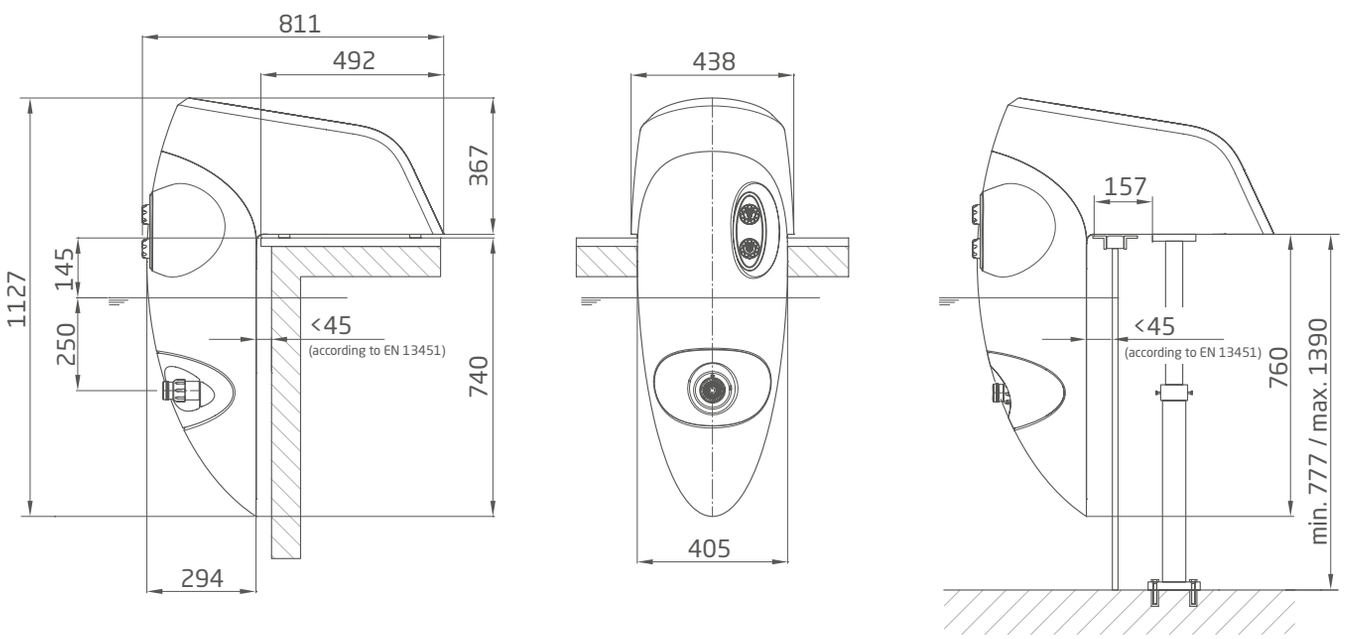
- **With white or multicoloured LED**
- **With design inlay as standard**

Scan the QR code for the BADUJET counter swim units application video ...



Dimensions

Detailed dimensions available on request or at badu.de



BADUJET Riva

High performance overhang unit with high gloss finish and LED lighting. For medium-size pools. UV resistant, scratch and stain resistant.

Field of application

For expanding all pool models as an attraction, for fitness training, as a wave or bubble bath, for underwater massages (consult physician), for endless, no-turn swimming even in the smallest pool.

Design

Water is drawn in through the suction inlet at the bottom of the unit using a powerful pump and led back into the pool through a strong jet via an adjustable nozzle. The BADUJET Riva is equipped with an easy-care, high quality, wood-look design inlay.

For recommended accessories see page 126.

Materials used

Housing ..... ABS/PMMA
Interior parts ..... PP/ABS/stainless steel
Control elements ..... ABS
Suction/pressure line ..... PVC/ABS

Technical data at 50 Hz	BADUJET Riva	21-81/32 G	21-81/32 RG
Pump flow rate (m³/h)	3~/1~	58	54
Voltage	3~/1~	3 N~ 400/230 V	1~ 230 V
Power input P_1/output P_2 [1] (kW)	3~/1~	3.18/2.60	2.89/2.20
Number of nozzles (Ø 40 mm)	3~/1~	1	1
Flow pressure at nozzle (bar)	3~/1~	1.10	1.00
Flow velocity in centre 2 m from the nozzle (m/s)	3~/1~	1.20	1.15
Massage pressure (bar) max.	3~/1~	1.60	1.60
Multi-directional swivel nozzle (degrees)	3~/1~	60	60
Net weight (kg)	3~/1~	38.00	40.00

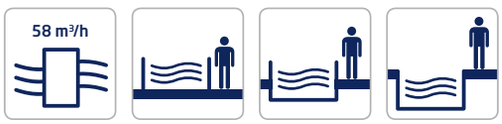
For more detailed information regarding the motor protection please see page 143.

Article no	Description	Voltage	Power output P_2	Net RRP	Gross RRP[7]
231.8600.000	BADUJET Riva - white LED	1~ 230 V	2.20 kW	**2,718.44 €**	3,234.94 €
231.8620.000	BADUJET Riva - multicoloured LED	1~ 230 V	2.20 kW	**2,867.00 €**	3,411.73 €
231.8500.000	BADUJET Riva - white LED	3 N~ 400/230 V	2.60 kW	**2,662.09 €**	3,167.89 €
231.8520.000	BADUJET Riva - multicoloured LED	3 N~ 400/230 V	2.60 kW	**2,811.51 €**	3,345.70 €
231.9851.000	Telescopic foot for above ground pools			**165.64 €**	197.11 €

The pumps in the counter swim units can be used for pool water with a salt concentration of up to 0.5 %, i.e. 5 g/l.
For higher salt concentrations please contact us.

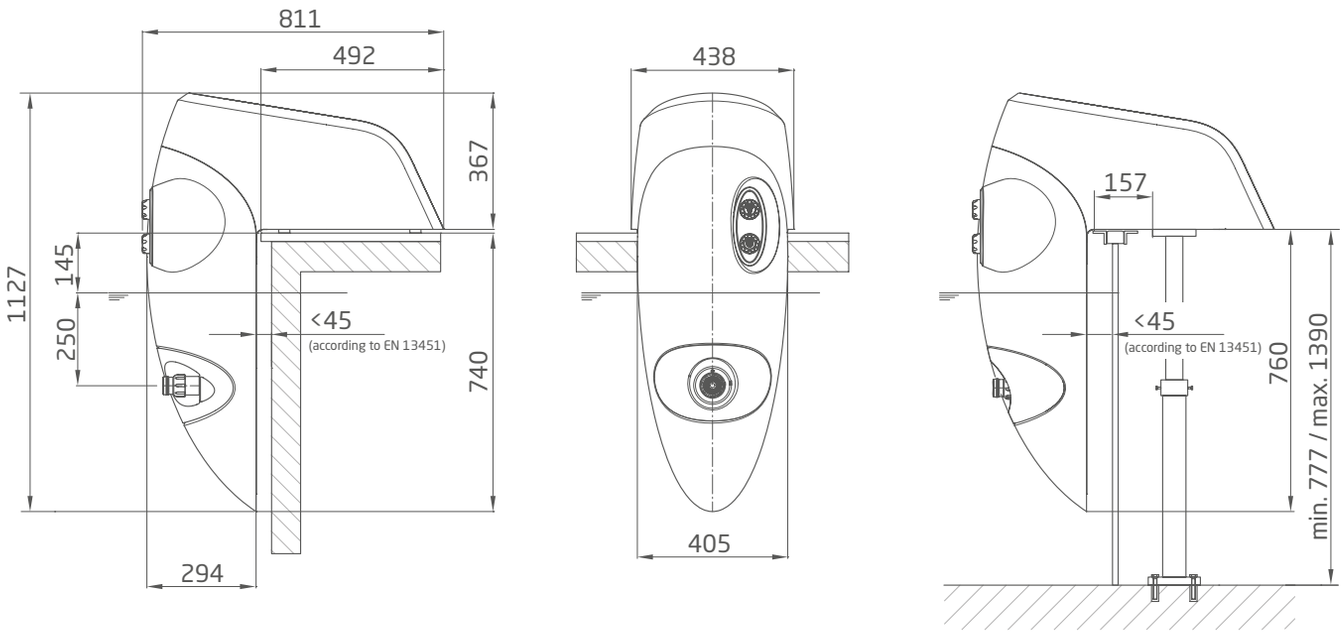
- **With white or multicoloured LED**
- **With design inlay as standard**

Scan the QR code for the BADUJET counter swim units application video...



Dimensions

Detailed dimensions available on request or at badu.de



BADUJET Stella

Powerful overhang unit with high gloss finish and LED lighting. For large pools. UV resistant, scratch and stain resistant.

Field of application
For expanding all pool models as an attraction, for fitness training, as a wave or bubble bath, for underwater massages (consult physician), for endless, no-turn swimming even in the smallest pool.

Design
Water is drawn in through the suction inlet at the bottom of the unit using a powerful pump and led back into the pool through a strong jet via two adjustable nozzles. The BADUJET Stella is equipped with an easy-care, high quality, wood-look design inlay.

For recommended accessories see page 126.

Materials used
Housing ..... ABS/PMMA
Interior parts ..... PP/ABS/stainless steel
Control elements ..... ABS
Suction/pressure line ..... PVC/ABS

Technical data at 50 Hz	BADUJET Stella	21-81/33 G
Pump flow rate (m^3/h)	3~	75
Voltage	3~	3 N~ 400/230 V
Power input P_1/output P_2 [1] (kW)	3~	3.74/3.00
Number of nozzles (Ø 40 mm)	3~	2
Flow pressure at nozzles (bar)	3~	1.00
Flow velocity in centre 2 m from the nozzles (m/s)	3~	1.40
Massage pressure (bar) max.	3~	1.60
Multi-directional swivel nozzles (degrees)	3~	60
Net weight (kg)	3~	40.00

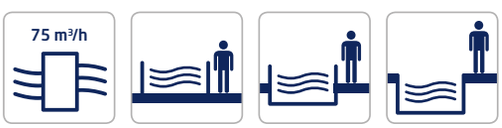
For more detailed information regarding the motor protection please see page 143.

Article no	Description	Voltage	Power output P_2	Net RRP	Gross RRP[7]
231.9500.000	BADUJET Stella - white LED	3 N~ 400/230 V	3.00 kW	**3,105.20 €**	3,695.19 €
231.9520.000	BADUJET Stella - multicoloured LED	3 N~ 400/230 V	3.00 kW	**3,255.47 €**	3,874.01 €
231.9851.000	Telescopic foot for above ground pools			**165.64 €**	197.11 €

The pumps in the counter swim units can be used for pool water with a salt concentration of up to 0.5 %, i.e. 5 g/l.
For higher salt concentrations please contact us.

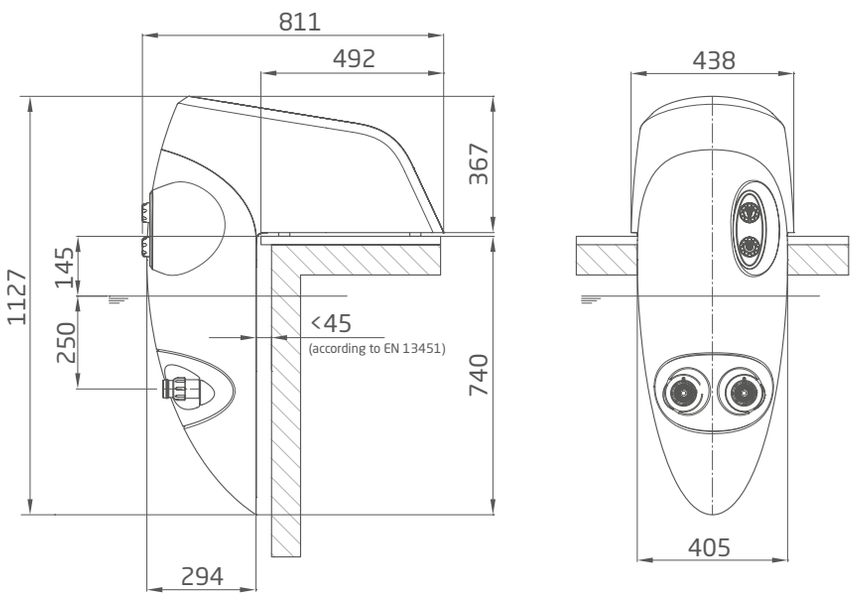
- **With white or multicoloured LED**
- **With design inlay as standard**

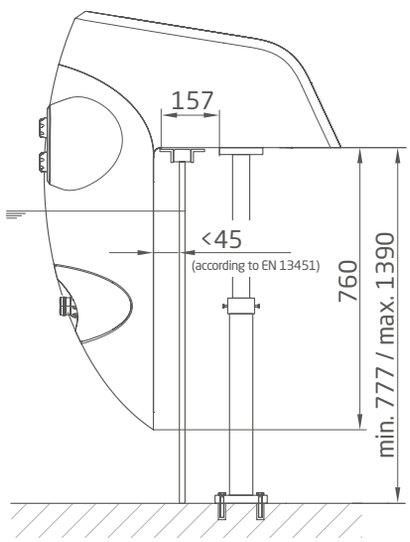
Scan the QR code for the BADUJET counter swim units application video...



Dimensions

Detailed dimensions available on request or at badu.de

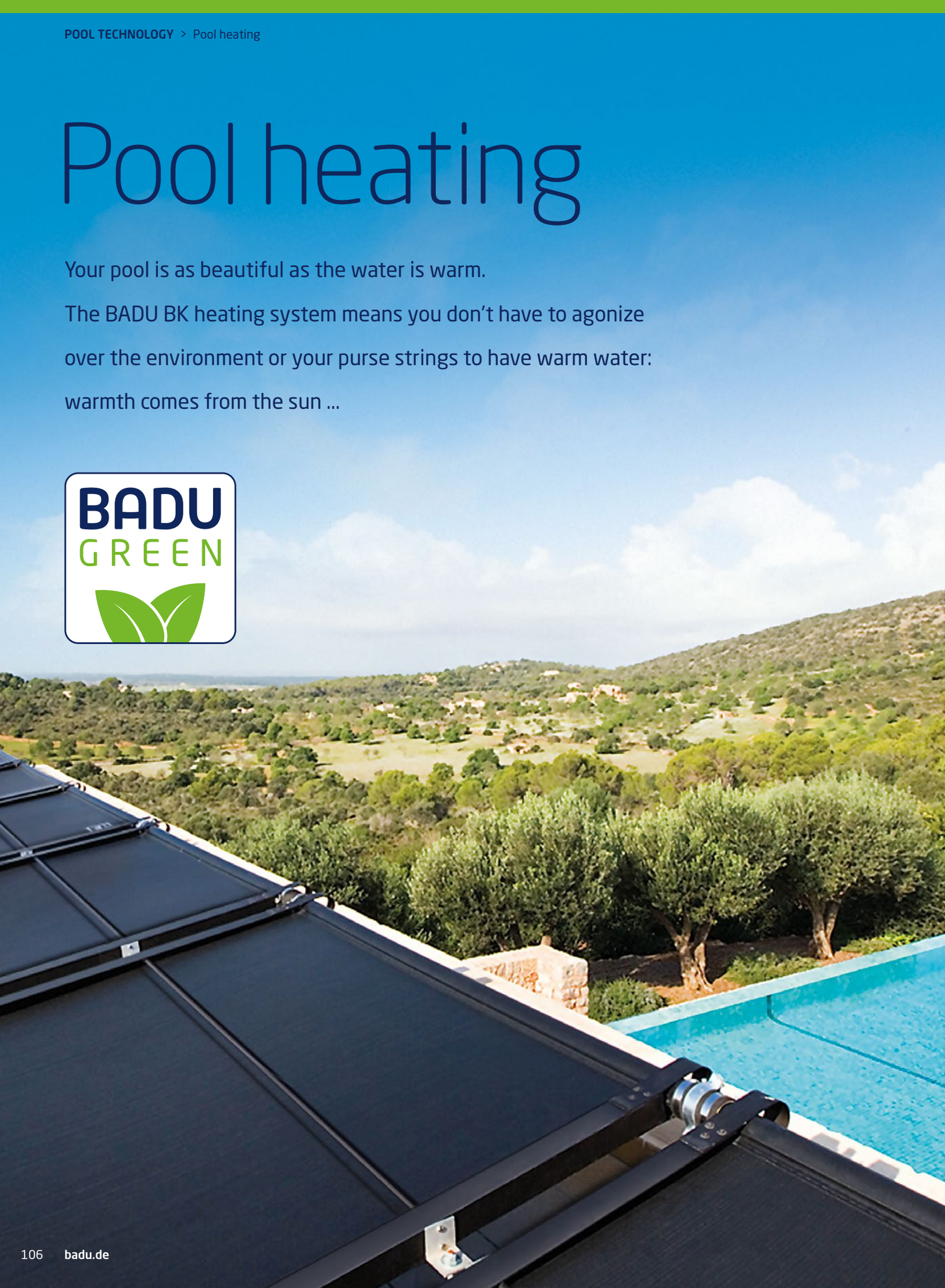




Pool heating

Your pool is as beautiful as the water is warm.

The BADU BK heating system means you don't have to agonize over the environment or your purse strings to have warm water: warmth comes from the sun ...



Functionality

The warmth of the sun, absolutely free. The BADU BK solar panel series brings warm water to your pool simply with a few rays of sun and without any heating charges. Furthermore it is completely environmentally friendly as there is no CO_2 pollution. The solar panel unit pays for itself within the first few years - and you'll get more from your heated pool as you'll be able to use it more often.

The pool heating is a system of external swimming pool solar panels and a bypass pipe connection to your pool. The circulation pump, or an additional pump, leads the filtered water through the heating system when necessary and returns the heated water to your pool.

As soon as the surroundings are warmer than the pool water, the pool heating can be turned on by opening the shut-off valve. It can be turned off again by closing the shut-off valve so that the water is still refreshingly cool in high season. This can also be controlled automatically with the BADU Logic pool control, see pages 117. It's practically impossible to heat your pool in a simpler and more intelligent way.

The BADU BK swimming pool solar panels are made from high quality polypropylene. Therefore they are UV-resistant, weatherproof and resistant to swimming pool water as well as the chemicals in it. The d 50 mm welded headers with socket connections are also made from polypropylene and are therefore just as resistant and durable.

Economic efficiency

Calculation example for the BADU BK solar panel unit in an outdoor pool.

Pool situation

Pool surface ..... 32 m²
Pool volume ..... 45 m³
Desired water temperature ..... approx. 24 °C

- Outdoor pool with pool cover to avoid heat loss
- Bathing season from May to September
- Heat requirement during this time is 16,000 kWh

Required panel surface

The pool's water surface, the presence of a pool cover and the positioning and inclination of the panels are deciding factors when configuring the required panel surface.
32 m² x 0.7 x 1.2 = approx. 27 m²

Cost of a BADU BK swimming pool solar panel unit incl. assembly and control technology ..... approx. 4,500.00 €

Cost without a BADU BK swimming pool solar panel unit, using an oil heating unit ..... approx. 1,600.00 € per year

The amortisation period for a BADU BK swimming pool solar panel unit is less than three years.

The example is based on basic oil heating charges of 0.85 €/l as well as panel positioning towards the south with a 60° horizontal inclination.

Pool surface x pool cover correction factor x positioning/inclination correction factor
= required panel surface

Assembly may only be carried out by a trained professional. Assembly materials must be provided on site.

The total cost is an estimated point of reference based on information from installation companies.

BADU® BK 250 / BK 370

Environmentally friendly solar heating for your pool. Extend your swimming season with the BADU BK solar panel.

Panel surface calculation example

4 m x 8 m pool dimensions = 32 m² pool surface

$$\text{Number of panels} > \frac{\text{pool surface}}{\text{panel surface}} > \frac{32.0\ \text{m}^2}{3.70\ \text{m}^2} > 8.65 \times 0.7\ (70\ \%) > 6.06 > 6\ \text{units}$$

With this example you are able to calculate the number of panels required. In this case we have calculated a requirement of 6 BADU BK 370 panels. This value can vary depending on the direction and inclination of the pool heating.

Note: In Central Europe the panel surface should correspond to the pool surface in size. If a cover is used to minimise heat loss, the panel surface is reduced to 70 % of the pool surface.

Technical data	BADU BK	370	370 R	250	250 R
Surface (m²)		3.70	3.70	2.50	2.50
Weight without water (kg)		9	17	7	12
Weight with water (kg)		19	27	13	18
Operating pressure (bar) max.		1.50	1.50	1.50	1.50
Flow rate (l/h)		1000	1000	750	750
Collector pipe with socket connection (mm)		50	50	50	50
Flow resistance (m)	with 4 panels	0.14	0.14	0.14	0.14
Flow resistance (m)	with 6 panels	0.40	0.40	0.40	0.40
Flow resistance (m)	with 8 panels	0.90	0.90	0.90	0.90
Flow resistance (m)	with 10 panels	1.70	1.70	1.70	1.70
Net weight (kg)		9.00	18.00	8.00	16.00

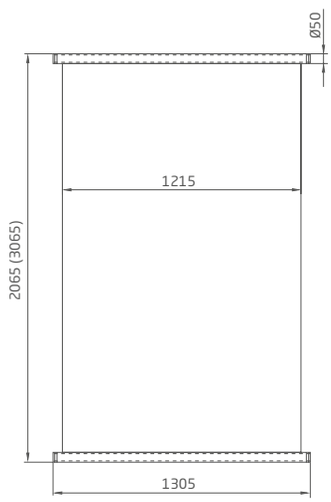
R = with frame. Max. 10 panels can be installed in one bank.

Article no	Description	Net RRP	Gross RRP[7)]
250.2000.000	BADU BK 250 solar panel	**304.80 €**	362.71 €
250.4000.000	Aluminium frame for BADU BK 250	**190.39 €**	226.56 €
250.1000.000	BADU BK 370 solar panel	**351.76 €**	418.59 €
250.3000.000	Aluminium frame for BADU BK 370	**220.28 €**	262.13 €

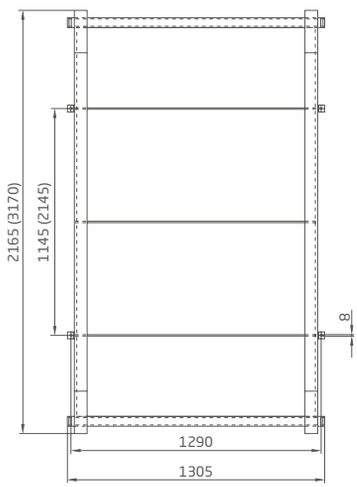
Dimensions

Dimensions in brackets for BADU BK 370. Possible dimensional tolerances ± 1 %.

Detailed dimensions on request or at badu.de



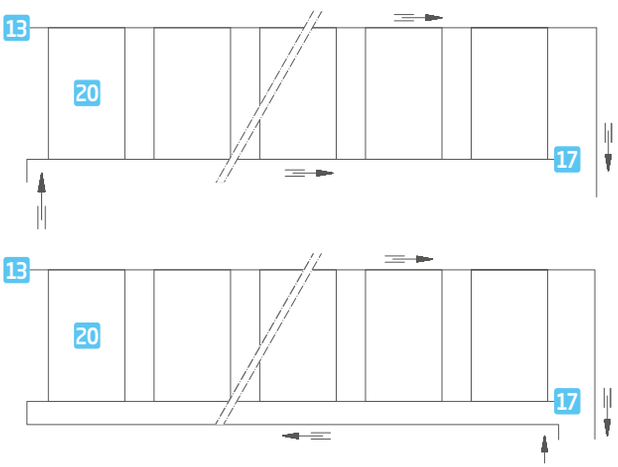
Individual solar panel



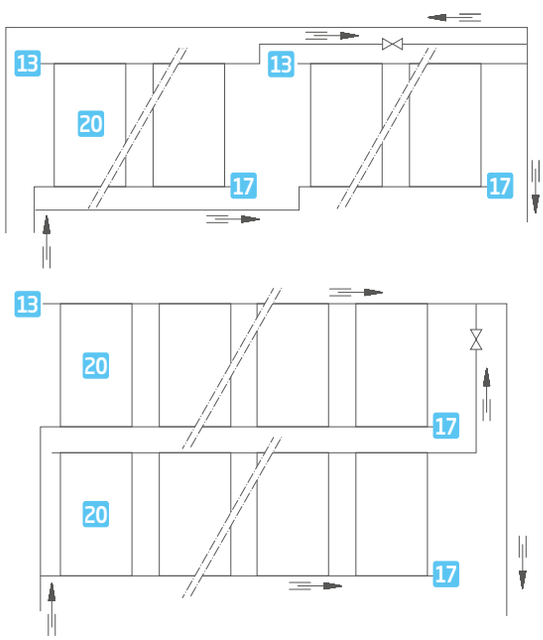
Solar panel in aluminium frame

Side view

Installation



Installation example for solar panels in one bank
(max. 10 panels per bank)



Installation example for solar panels in two banks
(max. 10 panels per bank)

Configuring the pump's delivery head (H_{total})

H_{total} = Difference in height between the water level and the highest point of the panels plus the resistance inside the panels, pipes, fittings and other individual resistances (filter, backwash valve, nozzles etc).

20 BADU BK solar panel
17 End plug
13 Aeration and ventilation valve

For BADU BK solar panel accessories please see page 127.

BADU® BK 250 / BK 370 sets

The BADU BK solar panel as a complete set.
Use the sun simply, fast and cost-effectively for your pool.

Design

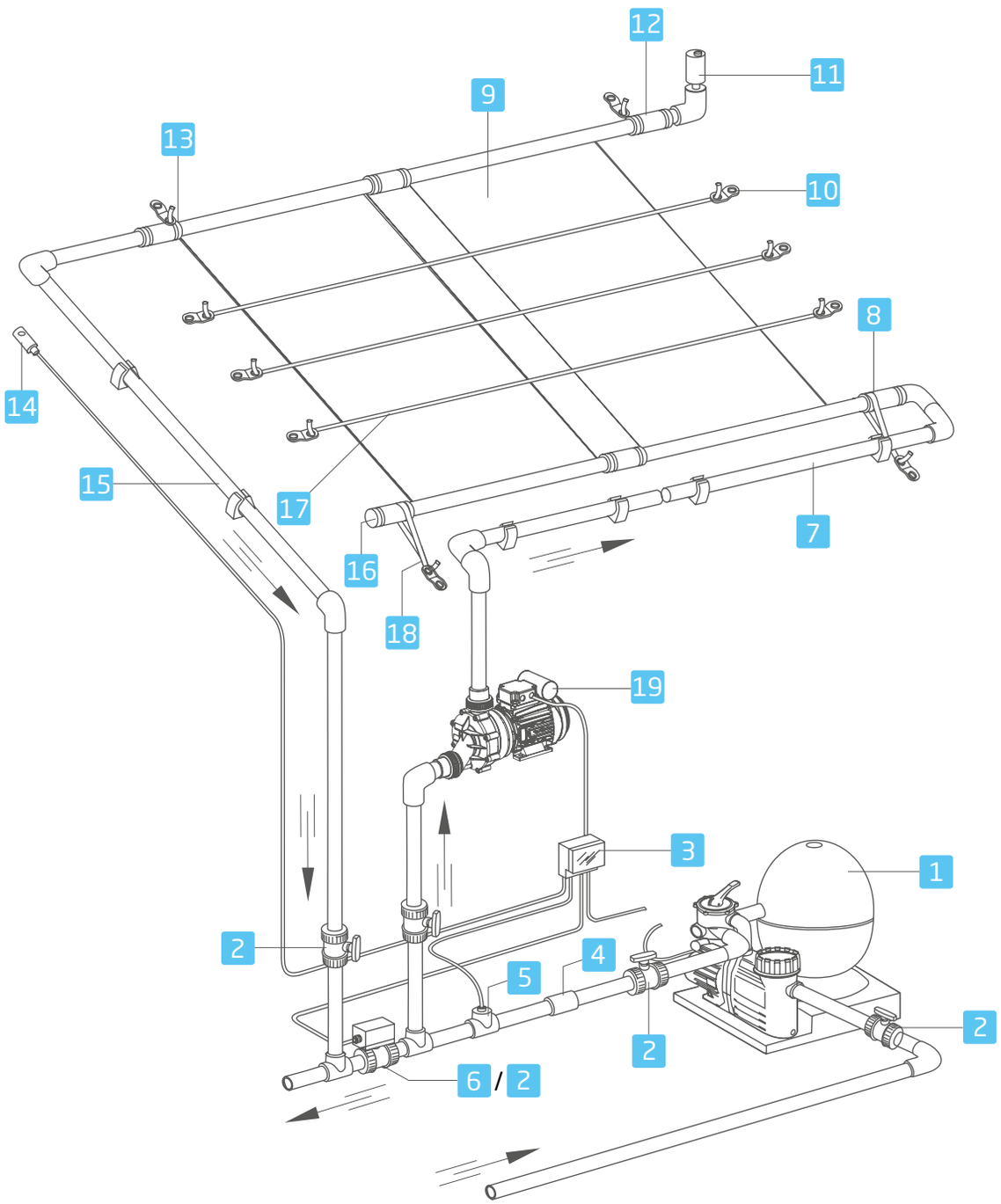
Our solar panels are available in sets. These include the required amount of solar panels as well as appropriate accessories. Therefore you save time configuring the solar panels and can bring the sun's warmth to your pool even quicker.

1. Solar panel BADU BK 250 or BADU BK 370
2. Panel connectors
3. Hose clamps
4. Vent unit R ⅜
5. Plastic double eyelet
6. End plugs
7. Elbow for vent unit
8. Polyester tape

Article no	Description	Net RRP	Gross RRP[7)]
250.2020.000	Solar panel set, 2 x BADU BK 250 with accessories	768.40 €	914.40 €
250.2030.000	Solar panel set, 3 x BADU BK 250 with accessories	1,091.99 €	1,299.47 €
250.2040.000	Solar panel set, 4 x BADU BK 250 with accessories	1,418.99 €	1,688.60 €
250.2050.000	Solar panel set, 5 x BADU BK 250 with accessories	1,702.44 €	2,025.90 €
250.2060.000	Solar panel set, 6 x BADU BK 250 with accessories	2,075.55 €	2,469.90 €
250.1020.000	Solar panel set, 2 x BADU BK 370 with accessories	862.32 €	1,026.16 €
250.1030.000	Solar panel set, 3 x BADU BK 370 with accessories	1,230.29 €	1,464.05 €
250.1040.000	Solar panel set, 4 x BADU BK 370 with accessories	1,602.55 €	1,907.03 €
250.1050.000	Solar panel set, 5 x BADU BK 370 with accessories	1,960.28 €	2,332.73 €
250.1060.000	Solar panel set, 6 x BADU BK 370 with accessories	2,353.03 €	2,800.11 €

Installation

Detailed information and dimensions available on request or at badu.de



1 Filter unit with pump
2 Ball valve
3 BADU Logic pool control, optional
4 Non-return valve
5 Sensor for water temperature with T-fitting
6 Actuator or ball valve
7 Feed pipe
8 Inlet - BADU BK solar panel unit
9 BADU BK solar panel
10 Double eyelet
11 Vent unit
12 Panel connectors
13 Outlet - BADU BK solar panel unit
14 Air temperature sensor
15 Return pipe
16 End plug
17 Long polyester tape
18 Short polyester tape
19 Additional pump, optional

BADU® POOL PRODUCTS

BADU Star

BADU Quick

BADU Suction safety system

BADU Mat T 1 / T 1 G Topmount version

BADU Mat T 1 / T 1 G Sidemount version

Further information regarding these pool products can be found on badu.de.
Scan the QR code and you will be taken directly to the product information page.

OPERATION

BADU® Eco Drive II

It's all go. Compact frequency converter for optimal working conditions.

Field of application
The BADU Eco Drive II frequency converter is ideally suited for use with the BADU Prime 25 - BADU Prime 48, BADU Resort and BADU 93.

Mode of operation
There are various operating conditions in pool water treatment, for example filtering – pool water circulation – backwashing and rinsing. Depending on pipe friction loss and filter speed, different operating points have to be set. This can be ensured conveniently by controlling the pump's operating points via a frequency converter. Therefore the pump's motor speed is electronically adjusted as necessary.

Performance characteristics
- Unnecessary energy loss, e.g. through a shut-off valve, is avoided.
- Energy saving potential through adjustable flow rate, e.g. in public pools with low pool usage or outside pool operating hours.
- Pump is always run at its optimal and most economic operating point.

Control
The frequency converter offers a wide range of control options: direct control via buttons, digital inputs to approach fixed speeds or external control via the 0-10 V or 4-20 mA interface.
It can therefore be integrated into building control systems.
Relay output functions e.g. indicating operational readiness or motor overload, relay input functions e.g. "start" or "stop", PTC thermistor sensor evalution and time functions round up its range of applications.
Please check special on site requirements on the opposite page.

Technical data at 50 Hz	BADU Eco Drive II für	0.75 kW	1.50 kW	2.20 kW	4.00 kW	5.50 kW
Frequency		50-60 Hz	50-60 Hz	50-60 Hz	50-60 Hz	50-60 Hz
Voltage		3~ 380-480 V	3~ 380-480 V	3~ 380-480 V	3~ 380-480 V	3~ 380-480 V
Analogue input		0-10 V/4-20 mA	0-10 V/4-20 mA	0-10 V/4-20 mA	0-10 V/4-20 mA	0-10 V/4-20 mA
Cooling		ventilation	ventilation	ventilation	ventilation	ventilation
Max. ambient temperature		50 °C	50 °C	50 °C	50 °C	50 °C
Net weight (kg)		8.00	9.00	9.00	10.00	14.00

For more detailed information regarding device protection please see page 143.

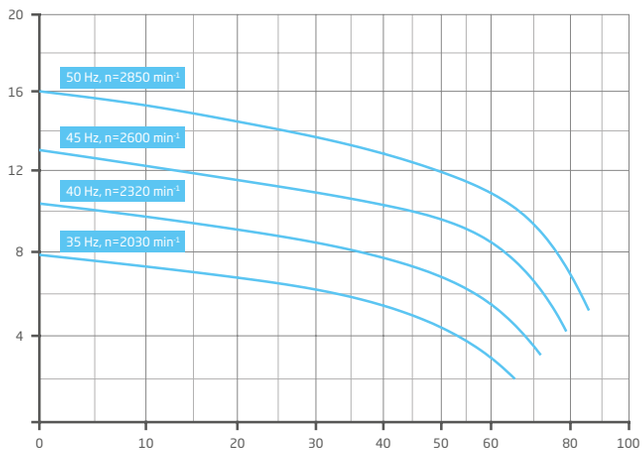
Article no	Description	Voltage	Net RRP	Gross RRP[7)]
297.0075.412	Frequency converter BADU Eco Drive II for 0.75 kW	3~ 380-480 V	**857.20 €**	1,020.07 €
297.0150.412	Frequency converter BADU Eco Drive II for 1.50 kW	3~ 380-480 V	**995.51 €**	1,184.66 €
297.0220.412	Frequency converter BADU Eco Drive II for 2.20 kW	3~ 380-480 V	**1,133.83 €**	1,349.26 €
297.0400.412	Frequency converter BADU Eco Drive II for 4.00 kW	3~ 380-480 V	**1,471.07 €**	1,750.57 €
297.0550.412	Frequency converter BADU Eco Drive II for 5.50 kW	3~ 380-480 V	**1,856.12 €**	2,208.78 €
297.0000.001	Programming flat rate BADU Eco Drive II		**on request**	

Further capacities on request.

Graphic display >

Performance

Characteristics calculated for the BADU Resort 70 at different frequencies.



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

Special on site requirements

- Protected cable between motor and frequency converter.
- We recommend providing a PTC thermistor sensor for the motor winding.
- We recommend not running the motor below 30 Hz.
- Residual current circuit breaker (type B).

BADU® Eco Logic

Automatic timer with many extras. Speed control for BADU GREEN pumps.

Field of application

Filter pump regulation for hard to reach engineering rooms. It regulates the filter times fully automatically whilst you relax and enjoy ideal water quality.

Performance characteristics

- Easily understandable full text display for convenient handling and multilingual menu.
- Simple menu for fast programming and evaluation of the operating hours.
- The control unit is equipped for individual programming with three switch programmes per day.
- The regulation of BADU GREEN pumps is carried out both via speed phases and with a control voltage of 0 to 10 V.
- An integrated additional relay allows the programming, for example, of your pool lighting.

Design

The BADU Eco Logic is constructed in an integrated switching technology.
Components:

- Electronic control unit with modern clamp connection technology.
- Sensors to display bathing water temperature (optionally available).

Article no	Description	Voltage	Net RRP	Gross RRP[7)]
271.6606.000	BADU Eco Logic	1~ 230 V, 50/60 Hz	**401.28 €**	477.52 €

For more detailed information regarding device protection please see page 143.

BADU® Logic 2 - 3

Relax and enjoy with fully automatic controllers. For convenient regulation of temperature and filtration times. Optionally available with the web manager.

Field of application

The new pool controllers regulate the filter times as well as the heating and solar heating of swimming pool water fully automatically whilst you relax and enjoy an ideal water temperature. Depending on the type, the controller regulates further fundamental parameters of your unit.

Performance characteristics

- Simple installation and fast troubleshooting thanks to installation assistant and help menu.
- Easily understandable full text display and multilingual menu.
- Clear graphic display of the swimming pool system.
- Usage display and efficiency testing with optional third temperature sensor.
- With the BADU Logic 3 the unit can be monitored on smart phones or tablets via an optional web manager and various parameters can be regulated.

Designs

- **BADU Logic 2**
  Additional filter pump control and running time optimisation including two temperature sensors.
- **BADU Logic 3**
  Additional multistage filter pump control for BADU GREEN motors, e.g. BADU Eco Soft and BADU Delta Eco VS, including two temperature sensors.

Article no	Description	Voltage	Net RRP	Gross RRP[7)]
271.6602.000	BADU Logic 2		**578.87 €**	688.86 €
271.6603.000	BADU Logic 3		**674.49 €**	802.64 €
250.0012.900	Ball valve LH 50 with actuator	1~ 230 V	**390.17 €**	464.30 €
230.9011.000	Ball valve LH 63 with actuator	1~ 230 V	**619.20 €**	736.85 €
271.6600.403	Water sensor		**45.85 €**	54.56 €

BADU® BNR 300

Convenient flooding protection. Automatic water level control.

Float switch included in delivery

Field of application

For observation of the environment surrounding the pool and technology equipment. Due to the multilingual menu this product can be used in almost every country worldwide.

Design

BADU BNR 300 is built using the most modern integrated switching technology and consists of:

- Electronic control unit with modern clamp connection technology.
- Level switch with 10 m cable.
- Mounting rail for float switch.
- Safety shutdown system with threefold proctection.
- Magnetic valve Rp ½ (at an additional cost).
- Acoustic warning signal, available optionally.
- Water meter.

Further accessories, e.g. water detector, available on request.

Technical data at 50 Hz	BADU	BNR 300
Temperature range		5 °C-50 °C
Rated voltage		1~ 230 V, 50/60 Hz
Relay switching capacity		4.0 A at 1~ 230 V
On/off switching delay		approx. 1-4 min., individually programmable
Cable lengths		10 m standard length/max. cable length 25 m, required cable cross section 2 x 0.25 mm²
Float switch		waterproof
Net weight (kg)		2.00

For more detailed information regarding device protection please see page 143.

Article no	Description	Voltage	Net RRP	Gross RRP[7)]
271.6605.010	BADU BNR 300 with magnetic valve	1~ 230 V	**429.45 €**	511.05 €
271.6605.000	BADU BNR 300 without magnetic valve	1~ 230 V	**329.56 €**	392.18 €
271.6070.003	Magnetic valve Rp ½, seperate		**101.60 €**	120.90 €

BADU® BNR 400

Water level control.
With conductivity sensor.

Level detector included in delivery >

Field of application
For observation of the pool water level including the safety features and also for water level regulation. Due to the multilingual menu this product can be used in almost every country worldwide.

Design
- Electronic control unit with modern clamp connection technology.
- Mounting rail.
- Level sensor.
- Magnetic valve Rp ½ (at an additional cost).

Technical data at 50 Hz	BADU	BNR 400
Rated voltage		1~ 230 V, 50/60 Hz
Relay switching capacity		4.0 A at 1~ 230 V
Cable cross section		2 x 1.5 mm²
Level voltage		approx. 12 V
Net weight (kg)		1.50

For more detailed information regarding device protection please see page 143.

Article no	Description	Voltage	Net RRP	Gross RRP[7)]
271.6607.005	BADU BNR 400 with sensor. cable length 7.5 m without magnetic valve	1~ 230 V	441.52 €	525.41 €
271.6607.025	BADU BNR 400 with sensor. cable length 25 m without magnetic valve	1~ 230 V	488.48 €	581.29 €
271.6607.000	BADU BNR 400 without sensor. without magnetic valve		386.02 €	459.36 €
271.6607.105	BADU BNR 400 with sensor. cable length 7.5 m with magnetic valve	1~ 230 V	524.33 €	623.95 €
271.6607.125	BADU BNR 400 with sensor. cable length 25 m with magnetic valve	1~ 230 V	570.44 €	678.82 €
260.6402.161	Conductivity sensor. 7.5 m		63.30 €	75.33 €
260.6402.171	Conductivity sensor. 25 m		77.57 €	92.31 €
271.6070.003	Magnetic valve Rp ½. seperate		101.60 €	120.90 €

BADU® OmniTronic - Upgrade

Universal automatic backwash unit for almost every application. Simple and flexible operation.

Field of application

Depending on the size and load, filter units have to be backwashed on a regular basis in order to wash away debris that has been filtered in. The BADU OmniTronic electronic backwash device is a reliable and time-saving alternative to manual backwash valves.

Mode of operation

A digital timer starts the backwash procedure automatically according to the settings of the interval or time controlled programme. Filter time settings can also be specified.
An automatic level control is integrated and can be used with an optionally available level sensor and magnetic valve.
A small circuit board attachment is optionally available for conductive level control (conductivity).
A battery pack prevents the pool from emptying in the event of a power failure.

Performance features

- The performance features of the new BADU OmniTronic have been enhanced by a larger housing box, which now also offers space for additional onsite modules.
- Small top hat rail (15 mm) provided for components.
- BADU GREEN pumps, such as the BADU Delta Eco VS, can be connected directly to the backwash device.
- Level controls with optional sensors.
- All six valve positions can be accessed.
- Various inputs and outputs with additional fuctions e.g. pressure switch trigger and remote control.
- Operation in combination with a dosage control system possible.

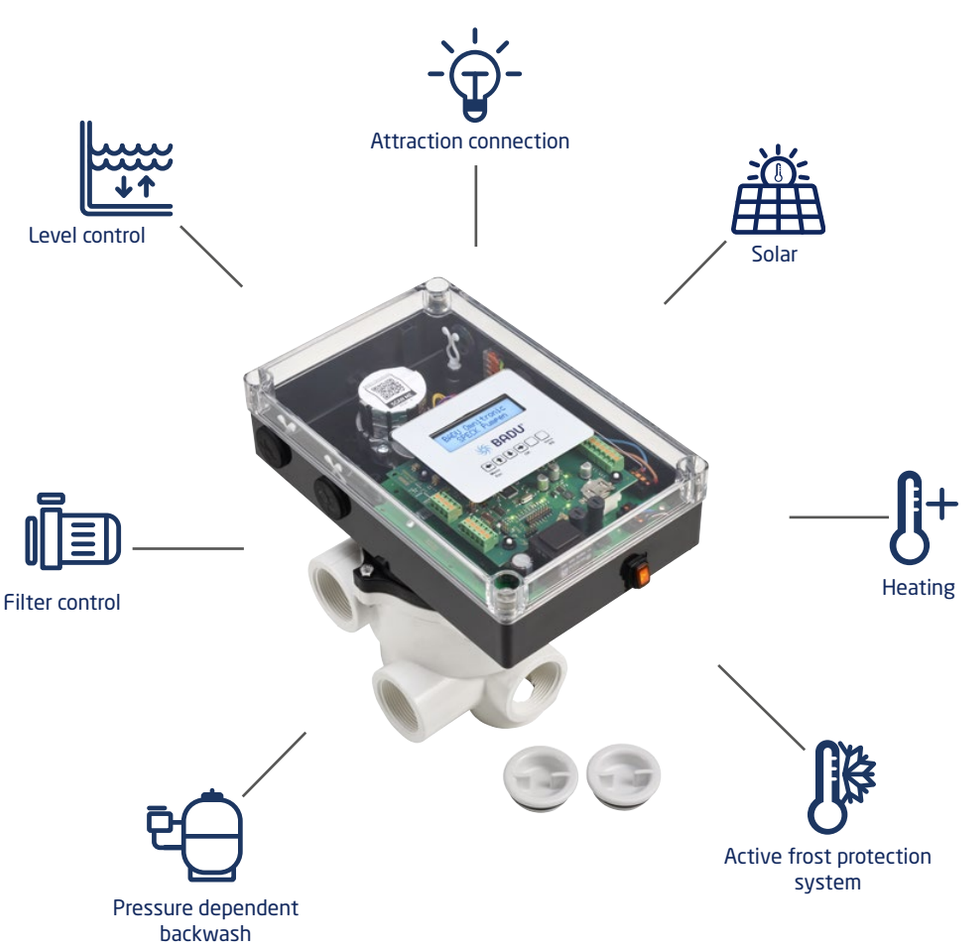
Technical data	BADU	OmniTronic
Circuit board		microprocessor controlled
Operating voltage		1~ 230 V, 50 Hz
Connection value (motor capacity P_1)		max. 1.00 kW
Fuse, for electronics/pump		315 mA delay/4 A delay
Max. permissable load current		250 V/4 A
Operating pressure		max. 2 bar
Net weight (kg)		4.00

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

Article no	Description	Connections	Voltage	Net RRP	Gross RRP[7)]
260.6000.041	BADU OmniTronic with BADU Mat R 41/3 A	Rp 1½	1~ 230 V	**809.39 €**	963.17 €
260.6000.051	BADU OmniTronic with BADU Mat R 51/3 A	Rp 2	1~ 230 V	**835.85 €**	994.66 €
260.6402.087	Pressure transducer +500.. +1500 mbar, incl. assembly accessories			**101.96 €**	121.33 €
260.6402.204	Additional feature: Control of floor drain			**56.49 €**	67.22 €
260.6402.205	Additional feature: Control of single phase pumps up to 6.40 A			**149.96 €**	178.45 €
260.6402.206	Additional feature: Control of three-phase pumps with 1.00 A			**188.16 €**	223.91 €
240.9102.063	Special non-return valve*) d 63			**145.15 €**	172.73 €
271.6090.025	Level switch with 10 m cable and bracket			**89.64 €**	106.67 €
260.6402.117	Temperature sensor with 5 m cable and PVC mount			**70.27 €**	83.62 €
260.6402.118	Temperature sensor with 15 m cable and PVC mount			**91.36 €**	108.72 €
260.6402.159	Additional circuit board for conductivity sensor			**42.57 €**	50.66 €
260.6402.161	Conductivity sensor, 5 m			**63.30 €**	75.33 €
260.6402.157	Battery pack with capacitor			**242.47 €**	288.54 €

*) For sewage pipes when the BADU OmniTronic is installed **below** the water level.

NEW



Product details

Switching functions

- Automatic backwash and filtering.
- Backwash and rinse cycles can be started automatically, manually or externally and set individually.
- BADU GREEN pumps can be connected directly.
- Magnetic valve can be controlled optionally (level control).
- Can be used optionally as a temperature and level control.

Optional additional modules

- For direct connection of single-phase pumps via a contactor e.g. BADU Prime 7 to BADU Prime 20.
- For direct connection of three phase pumps via three phase protection and a contactor e.g. BADU Prime 7 to BADU Prime 25.
- Insert option for a circuit board that controls the floor drain.

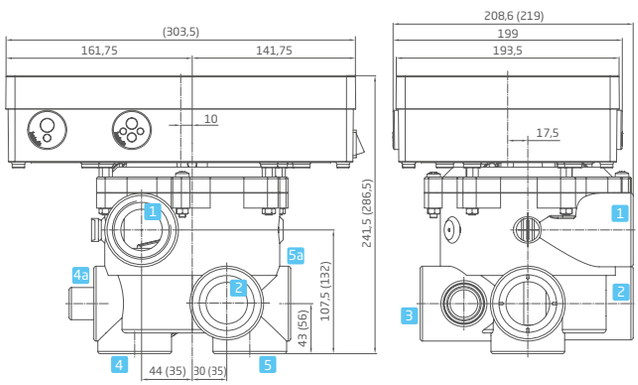
Installation tip

Do not install lower than 3 m below water level.
Lead the sewage pipe above the water level in a loop.
In case this is not feasible, install a spring-loaded non-return valve in the sewage pipe.
Too large temperature differences (>20 K) between the environment and the pumped medium lead to condensation.

Generally valid: The pump may only be switched on if the BADU OmniTronic is not changing the valve position. The arrow in the display should point downwards. The digital inputs must be switched on for BADU Eco VS pumps.

Dimensions

Detailed dimensions available on request or at badu.de



1 Pump
2 Pool
3 Sewage
4 / 4a to the filter
5 / 5a from the filter

The measurements in brackets are for BADU OmniTronic with BADU Mat R 51/3 A.

BADU® Mat R 41 / Mat R 51

The robust allrounder keeps everything under control. Manual 6-way multiport valve as a sidemount valve.

Field of application
Depending on the size and load, filter units have to be backwashed on a regular basis in order to wash away debris that has been filtered in.

Mode of operation
The valve regulates the flow of water and reverses it according to the chosen settings. Therefore the water flows back through the filter container and starts the backwashing process. These and other functions can be set easily and clearly on the BADU Mat using the handle.
After backwashing, fresh water must be fed into the system in order to re-establish the original water level. This is best done automatically with the BADU BNR 300 or BNR 400, see pages 118-119.

Designs
- **BADU Mat R 41/3 A / BADU Mat R 51/3 A**
  All connections open, with two sealing plugs.
- **BADU Mat R 41/3 G / BADU Mat R 51/3 G**
  Threaded connections.
- **BADU Mat R 41/3 K / BADU Mat R 51/3 K**
  Glue connections.
- **BADU Mat R 41/3 GK / BADU Mat R 51/3 GK**
  Connections 2 + 3 = G.
  Connections 1 + 4a + 5 = K.

Materials used
All parts which come into contact with water are made from corrosion resistant plastic, ABS or stainless steel.

Operating data
Water temperature ..... max. 40 °C
Interior housing pressure ..... max. 2.5 bar

Due to optimal water flow there is minimal flow noise and flow loss.
See flow characteristics on page 123.

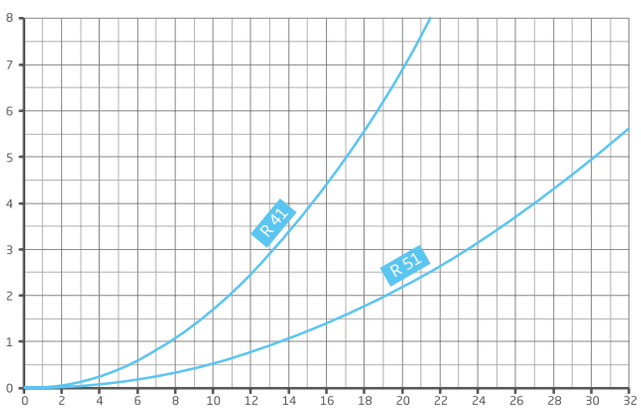
Performance characteristic
- The gasket is in the upper part of the valve. This makes it easier to replace if it becomes worn.

Article no	Description	Connections	Net RRP	Gross RRP[7)]
263.5000.000	BADU Mat R 41/3 GK	Rp 1½/d 50	**116.12 €**	138.18 €
263.3300.000	BADU Mat R 41/3 G	Rp 1½	**116.12 €**	138.18 €
263.3700.000	BADU Mat R 41/3 A	Rp 1½, with two R 1½ sealing plugs	**128.07 €**	152.40 €
263.3600.000	BADU Mat R 41/3 K	d 50	**116.12 €**	138.18 €
264.5000.000	BADU Mat R 51/3 GK	Rp 2/d 63	**153.68 €**	182.88 €
264.3300.000	BADU Mat R 51/3 G	Rp 2	**153.68 €**	182.88 €
264.3700.000	BADU Mat R 51/3 A	Rp 2, with two R 2 sealing plugs	**163.92 €**	195.06 €
264.3600.000	BADU Mat R 51/3 K	d 63	**153.68 €**	182.88 €

BADU Mat R 41

BADU Mat R 51

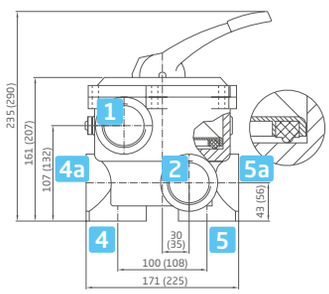
Flow characteristics

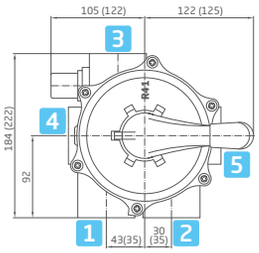


Pressure loss (mWS) / Flow rate Q (m³/h)

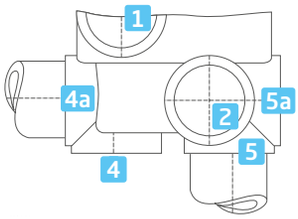
Dimensions

Detailed dimensions available on request or at badu.de





BADU Mat R 41/BADU Mat R 51



Version 3

1 Pump
2 Pool
3 Sewage
4 / 4a to the filter
5 / 5a from the filter

The measurements in brackets are for BADU Mat R 51.

BADU® ADDED VALUE

We live for the pool experience. We offer accessories - for pumps and counter swim units, to supplement or replace - in BADU PREMIUM quality, so that BADU technologies and solutions can make you completely happy.

It's often the small things that make a big difference.

The difference is BADU ...

BADU® POOL PRODUCTS

BADU Massage units

BADU Filter cartridge

Further information regarding these pool products can be found on badu.de.
Scan the QR code and you will be taken directly to the product information page.

ACCESSORIES

BADU® Counter swim units

BADU JET wireless control II
Waterproof remote control for all BADU JET submerged counter swim units. For control of the BADU JET unit and integrated LED lights. Upgrades are also available for further functions for the pool unit such as light control, roll-up cover etc.

Massage hose for 40 mm or 28 mm nozzle
1.50 m long, connection coupling and massage nozzle, completely assembled. Fits all counter swim unit jet nozzles.

Massage hose with pulsator
1.50 m long, connection coupling and pulsating massage nozzle (pulsator) attached. For 28 mm or 40 mm nozzle. Fits all counter swim unit jet nozzles.

Massage attachments for pulsator, pinpoint massage nozzle and blind cap
To be plugged directly into the jet nozzle, without a massage hose. The blind cap is included in delivery for units with two nozzles.

Winter panel kit for BADU JET Primavera
Protects the main housing from dirt and leaves and prevents water from penetrating through the housing into the mechanics shaft when shutting down the system for winter.
Also allows a higher water level and thus saves adding water in spring.

Article no	Description	Net RRP	Gross RRP[7)]
232.0000.503	BADU JET wireless control II, cpl.	408.96 €	486.66 €
230.0001.000	Massage hose for large nozzle, Ø 40 mm	85.37 €	101.59 €
230.0002.000	Massage hose for small nozzle, Ø 28 mm	85.37 €	101.59 €
230.0003.000	Massage hose with large pulsating massage nozzle, Ø 40 mm	204.91 €	243.84 €
230.0004.000	Massage hose with small pulsating massage nozzle, Ø 28 mm	204.91 €	243.84 €
230.0005.000	Pulsator for large nozzle, Ø 40 mm	161.36 €	192.02 €
230.0006.000	Pulsator for small nozzle, Ø 28 mm	161.36 €	192.02 €
230.0007.000	Large pinpoint massage nozzle, Ø 40 mm	27.92 €	33.22 €
230.0008.000	Small pinpoint massage nozzle, Ø 28 mm	27.92 €	33.22 €
230.0022.000	Blind cap for large nozzle, Ø 40 mm	27.92 €	33.22 €
230.0023.000	Blind cap for small nozzle, Ø 28 mm	27.92 €	33.22 €
230.0100.021	Winter panel kit for BADU JET Vogue, BADU JET Vogue Deluxe	108.86 €	129.54 €
232.6000.418	Winter panel kit for BADU JET Primavera, BADU JET Primavera Deluxe	82.25 €	97.88 €

Please indicate whether massage hoses and attachments are for Ø 28 mm or Ø 40 mm nozzles.

BADU® BK 250 / BK 370

Panel connector

End plug

Polyester tape

Plastic double eyelet

Aerator and ventilator

Elbow

2-way ball valve LH II 50 solar with actuator

2-way ball valve LH II 63 solar with actuator

Article no	Description	Net RRP	Gross RRP[7)]
250.0001.000	Panel connector with two stainless steel hose clamps d 50 mm	11.68 €	13.90 €
250.0002.000	PVC end plug d 50	4.52 €	5.38 €
250.0005.001	1 roll polyester tape 50 m	41.32 €	49.17 €
250.0006.000	Plastic double eyelet	1.03 €	1.23 €
250.0007.000	Aerator and ventilator R 3/8	22.03 €	26.22 €
250.0008.000	Elbow for aerator and ventilator with connection piece d 50/connection thread Rp 3/8	32.11 €	38.21 €
250.5100.000	Repair set II: cartridge with sealing compound[*)]	46.48 €	55.31 €
250.0014.050	2-way ball valve LH II 50 solar with actuator, 1~ 230 V	390.17 €	464.30 €
250.0014.063	2-way ball valve LH II 63 solar with actuator, 1~ 230 V	619.20 €	736.85 €

[*)] Flexible sealant for smaller repairs on the solar panel.

Professional terms and abbreviations – explained clearly and simply on page 146.

BADU® Omni actuator

6-way valve actuator.
For the execution of backwash and rinse procedures.

Field of application
Depending on the size and load, filter units have to be backwashed on a regular basis in order to wash away debris that has been filtered in. The BADU Omni actuator control valve is a reliable and time-saving alternative to manual backwash valves in order to move the valve to one of the 6 positions.

Mode of operation
An external control or other remote switch can specify which position the BADU Omni actuator should move its valve insert to.
Seeing as the external control can only turn the filter pump on when the BADU Omni actuator has reached one of the 6 positions, the usual z1-z2 enabling contact can be used to stop the pump.
The external control can specify the position selection either via the potential-free inputs or the BADU Omni actuator's 230 V inputs.

Performance features
- All six valve positions can be accessed.

NB
You will find the automatic backwash unit BADU OmniTronic on pages 120-121.

Technical data	BADU	Omni
Circuit board		microprocessor controlled
Operating voltage		1~ 230 V, 50 Hz
Fuse		315 mA delay
Operating pressure		max. 2 bar
Net weight (kg)		4.00

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

Article no	Description	Net RRP	Gross RRP[7)]
260.6100.041	BADU Omni actuator with R 41/3 A	**809.39 €**	963.17 €
260.6100.051	BADU Omni actuator with R 51/3 A	**835.85 €**	994.66 €

< Simple connection

^
Delivery
with BADU Mat R 41/3 A
or BADU Mat R 51/3 A

Product details

Switching function

- On/Off rocker switch.
- If no digital input is engaged, the BADU Omni actuator will move to the “filter” position.
- With 5 inputs to be connected with potential-free contacts, the valve can move to one of 6 possible target positions. Alternatively, three 230 V inputs can be used for the target positions “Backwash”, “Rinse” and “Drain”.

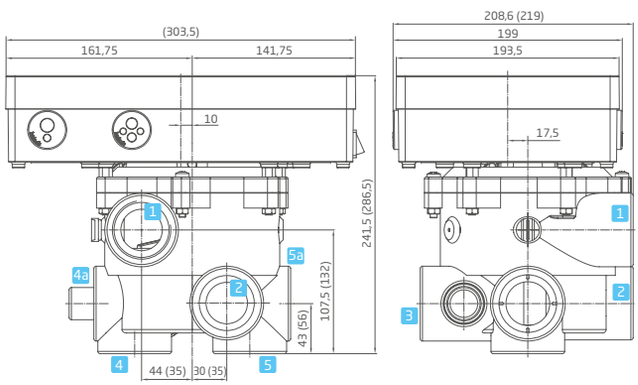
Installation tip

Do not install lower than 3 m below water level.
Lead the sewage pipe above the water level in a loop.
In case this is not feasible, install a spring-loaded non-return valve in the sewage pipe.
Too large temperature differences (>20 K) between the environment and the pumped medium lead to condensation.

NB: constant power supply required.

Dimensions

Detailed dimensions available on request or at badu.de



1 Pump
2 Pool
3 Sewage
4 / 4a to the filter
5 / 5a from the filter

The measurements in brackets are for BADU OmniTronic with BADU Mat R 51/3 A.

BADU® Opening devices

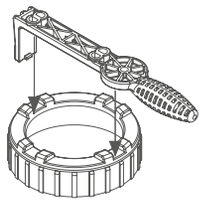
Universal opening device

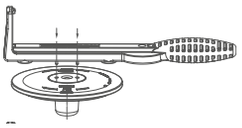
Three-way opening device

Sickel opening device

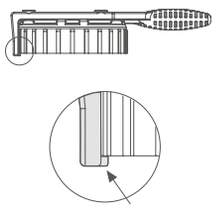
Usage

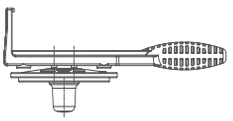
Step 1



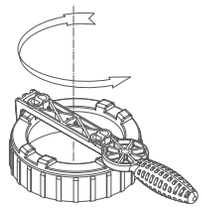


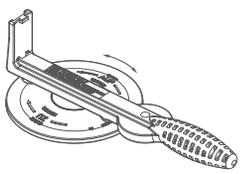
Step 2

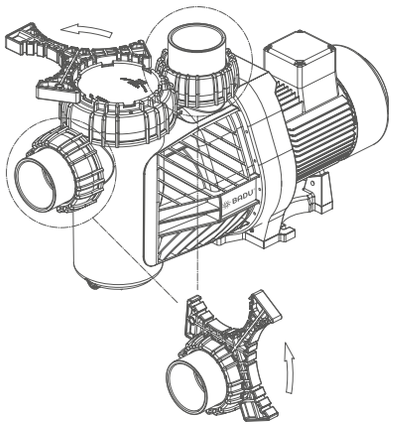




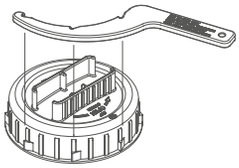
Step 3



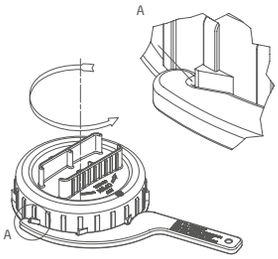




Step 1



Step 2

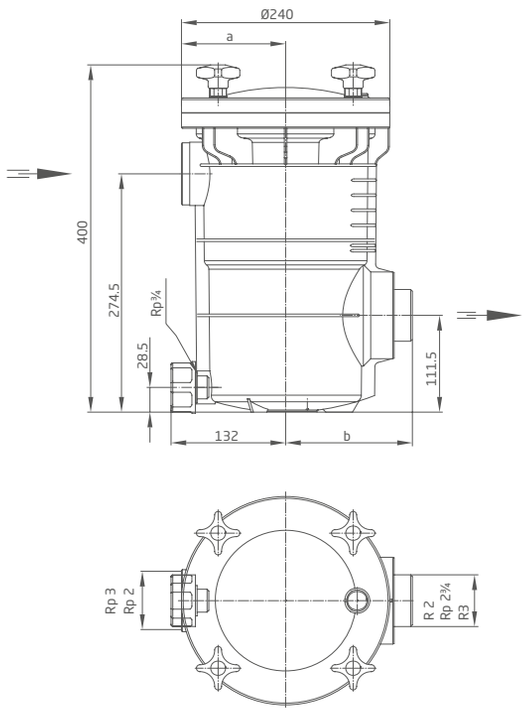


Article no	Description	Net RRP	Gross RRP[7)]
292.1157.700	Universal opening device	5.49 €	6.53 €
290.2099.800	Three-way opening device	14.68 €	17.47 €
292.1199.800	Sickel opening device	3.00 €	3.57 €

BADU® Plastic strainer tank

Dimensions

Detailed dimensions available on request or at badu.de.



Field of application

For pool water circulation pumps with a capacity of max. 56 m³/h, at 60 °C, 2.5 bar.

Design

Strainer tank capacity ..... approx. 8 l
Strainer basket mesh size ..... approx. 3.4 x 3.2 mm
Intake and pump connection.

Materials used

Strainer tank ..... PP TV 40
Lid ..... PC, transparent
Star handle ..... PA 6 GV
Strainer basket ..... PP

Recommended pressure line

DN (mm) 75

Article no	Description	Dimensions a/b	Net RRP	Gross RRP[7)]
292.0912.490	Plastic filter housing, cpl., intake connection Rp 2/pump connection R 2	120/146	**292.85 €**	348.49 €
292.0912.491	Plastic filter housing, cpl., intake connection Rp 3/pump connection R 3	130/146	**292.85 €**	348.49 €
292.0912.493	Plastic filter housing, cpl., intake connection Rp 3/pump connection Rp 2¾[*)]	130/121	**285.16 €**	339.34 €
292.0912.494	Plastic filter housing, cpl., intake connection Rp 3/pump connection Rp 2¾[**)]	130/129	**285.16 €**	339.34 €

[*)] For BADU FA 21-50/36 and BADU FA 21-60/45. [**)] For BADU FA 21-80/56 and for separate use.

BADU® Union sets

Union made from PVC for BADU 21-40/..
G 2 inside thread with d 50 glue socket

Union made from ABS
with d 110/d 110 glue sockets

Union made from ABS for BADU 21-80/..
Rp 2¾ inside thread with d 110 glue socket

Union made from PVC for BADU 21-50/../21-60/..
G 2¾ inside thread with d 63 glue socket

Plastic adapter made from ABS
Rp 2¾ x Rp 3 inside thread with d 110 glue adapter

Plastic adapter made from ABS
Rp 2¾ inside thread with d 75 glue socket and d 90 glue adapter

Plastic adapter made from PVC
Rp 2¾ inside thread with d 90 glue adapter

Union made from ABS
R 1½ outer thread with d 50 glue socket or R 2 x d 50 or R 2 x d 63

Article no	Description	Net RRP	Gross RRP[7)]
280.5120.050	Union made from PVC for BADU 21-40/.., G 2 inside thread with d 50 glue socket	348.49 €	10.98 €
290.2072.153	Union made from ABS, d 110/d 110 glue sockets	348.49 €	65.32 €
292.3172.100	Union made from ABS for BADU 21-80/.., Rp 2¾ inside thread with d 110 glue socket	339.34 €	65.32 €
230.0031.000	Union made from PVC for BADU 21-50/.. BADU 21-60/.., G 2¾ inside thread with d 63 glue socket	339.34 €	33.22 €
230.0027.000	Plastic adapter made from ABS, Rp 2¾ x Rp 3 inside thread with d 110 glue adapter	26.64 €	32.21 €
230.0028.000	Plastic adapter made from ABS, Rp 2¾ inside thread with d 75 glue socket and d 90 glue adapter	26.64 €	32.21 €
230.0026.000	Plastic adapter made from PVC, Rp 2¾ inside thread with d 90 glue adapter	23.95 €	28.95 €
230.0029.000	Plastic adapter made from PVC, Rp 2¾ inside thread with R 3 outer thread	26.64 €	32.21 €
586.3305.003	Union made from ABS, R 1½ outer thread with d 50 glue socket	8.75 €	10.58 €
586.3305.004	Union made from ABS, R 2 outer thread with d 50 glue socket	10.05 €	12.15 €
586.3306.302	Union made from ABS, R 2 outer thread with d 63 glue socket	7.15 €	8.64 €

NB: All unions are only available individually. One union is required per connection side on the pump.

BADU® Union sets

Flange sleeve made from PVC
with d 50 glue socket

Flange sleeve made from PVC
with d 63 glue socket

Flange sleeve made from PVC
with d 63 glue socket and d 75 glue adapter

Flange sleeve made from PVC
with d 90 glue socket

Flange sleeve made from PVC
with d 110 glue socket

Article no	Description	Net RRP	Gross RRP[7)]
292.1672.134	Flange sleeve made from PVC-U with d 50 glue socket	**10.21 €**	12.15 €
292.1472.126	Flange sleeve made from PVC-U with d 63 glue socket	**13.21 €**	15.72 €
292.1472.118	Flange sleeve made from PVC with d 63 glue socket and d 75 glue adapter[1)]	**20.17 €**	24.00 €
290.2072.113	Flange sleeve made from PVC with d 90 glue socket[2)]	**27.48 €**	32.70 €
290.2072.115	Flange sleeve made from PVC with d 110 glue socket[3)]	**32.05 €**	38.14 €

[1)] for BADU Profi, BADU EasyFit (without connection set options) and BADU 21-81/..
[2)] for BADU Prime 25 to BADU Prime 48 and BADU Resort 30 to BADU Resort 45
[3)] for BADU Resort 50 to BADU Resort 110

BADU® LED transparent lid

Field of application
Transparent lid with integrated LED lighting for simple visual inspections of the pre-filter.

Article no	Description	Net RRP	Gross RRP[7)]
292.1116.012	Transparent insert, PC, LED	**54.51 €**	64.87 €

BADU® OUR PROMISE

Quality is the reason customers buy BADU products.

Service is the reason customers are always happy.

That's perfect because that's exactly how we think and trade.

Our aim is always to give more than you expect from BADU.

That's why we're always there for you with help and solutions,

from planning to decision making and implementation.

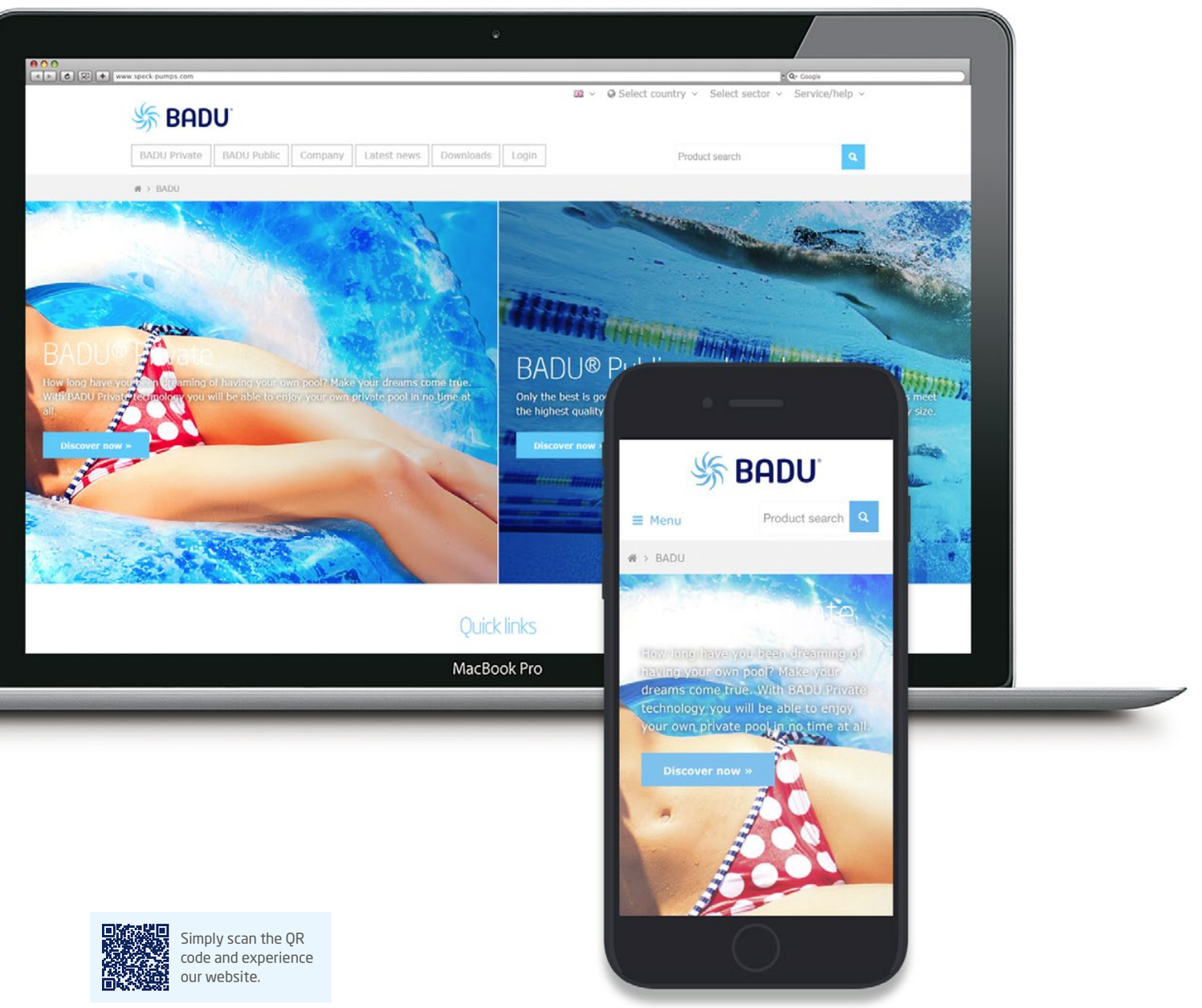
And of course with our after sales service including customer

and repair services - personally, in store and online ...

SERVICE

BADU.DE

POOL TECHNOLOGY ONLINE.



Simply scan the QR code and experience our website.

Knowledge is very valuable when you're planning your pool.
BADU is there to help, simply and flexibly online, with know-how
and competence as well as more than 50 years' experience.
We have something to help you manage your energy costs
so that your love of your pool will never die:
the BADU Eco Check App (for iOS and Android).

BADU.DE ...

- All BADU products for private and public pools, in detail.
- Modern design, clearly presented and simple to operate.
- Useful tools for searching, planning and collecting ideas.
- All important information at a glance.
- Upcoming trade fair dates.

SPECK PUMPEN WORLDWIDE

Find BADU representations in your local area.

VIDEO LIBRARY

Having your own pool is such a joy. Now you can experience the sensation and possibilities of a private pool online - take a look at the videos and you can start dreaming and planning.

FAR AND WIDE

You can access the BADU website at any time and from any place; on your computer, tablet and mobile phone - with uncomprimising quality and always with access to the entire content.

BADU® Eco Check

Calculate the energy efficiency and performance of your BADU GREEN circulation pump.

Right from the start BADU GREEN circulation pumps were designed for the best possible efficiency and therefore also with the environment in mind. However, whether or not a pump is the right choice for you, is a different question. You can find the answer easily by using the BADU Eco Check App for iOS and Android operating systems.

Size:	10 MB
Android Tablet:	2.2 or higher
Apple iPad:	2.2 or higher

Download on the App Store

GET IT ON Google Play

SPECIALIST RETAIL

PRODUCT PRESENTATION.

BADU Delta sectional model

BADU Mat R 41 sectional model

BADU JET Vogue display

BADU JET Primavera display

BADU JET Perla/Riva/Stella display

BADU products are made for life ...

and to be experienced at specialist retail stores -

touch them and understand how they work with sectional models

and sample products in attractive displays.

For BADU specialist retailers and customers alike.

Pump sectional models

Actions speak louder than words. That's why we offer all BADU pumps as sectional models, individually finished by hand, to specialist retailers.

Use these clear consultation aids to explain the functions and benefits of each pump type and to answer any questions.

Article no	Description	Net RRP	Gross RRP[7)]
210.3000.399	BADU Delta sectional model	**293.71 €**	349.51 €
263.0000.099	BADU Mat R 41 sectional model	**35.69 €**	42.47 €

The prices indicated are fixed prices, without deductions.

Counter swim unit displays

The counter swim unit's design and materials are most convincing in real life. For example in sales displays at specialist retailers.

Depending on the version and model, the displays have effect lighting, a built-in screen showing the product video and are delivered with sales literature.

Article no	Description	Dimensions (W x H x D)	Net RRP	Gross RRP[7)]
232.7420.200	BADUJET Vogue display with white LED	77 x 181 x 57 cm	**535.32 €**	637.03 €
232.7420.400	BADUJET Primavera display with white LED	77 x 181 x 57 cm	**535.32 €**	637.03 €
231.7500.098	BADUJET Perla or BADUJET Riva display with white LED	95 x 204 x 87 cm	**535.32 €**	637.03 €
231.9500.098	BADUJET Stella display with white LED	95 x 204 x 87 cm	**535.32 €**	637.03 €

The prices indicated are fixed prices. without deductions.

We're happy to advise specialist retailers regarding the BADU brand.
Call us on +49 9123 949-400

BADU® PRODUCT QUALITY

THE ORIGINAL. WITH CERTIFIED SAFETY.

Trust in a sophisticated brand.

You may find pool technology cheaper elsewhere, but if it's quality you're looking for then BADU is definitely the right choice for you - with innovative technology and functionality; certified safety; excellent design; and reliable service.

This is our promise and our guarantee.

MADE IN GERMANY

BADU PREMIUM products are developed and produced in Germany according to the highest material and quality standards and with the experience of a meticulous family business, SPECK Pumpen in Neunkirchen am Sand, Bavaria. BADU products are excluively available to buy in specialist retail stores, because sophisticated products belong in competent hands.

QUALITY

BADU PREMIUM products are made using high quality materials in order to ensure longevity, constant and reliable use and in order to protect the environment and its resources. BADU products are also easy to maintain.

CERTIFICATION

BADU products are completely safe and are thoroughly tested - by SPECK Pumpen during production and by independent examination institutions and associations. From device safety to the materials used and complete documentation, you can rest assured that your BADU experience will be a good one.

TÜVRheinland ZERTIFIZIERT
GS geprüfte Sicherheit
www.tuv.com
ID 0000021507

TÜV SÜD GS geprüfte Sicherheit

RECYCLING

Even the best products don't last forever. However BADU is very responsible. Most materials can be re-used and we always have a supply of wear and tear parts as well as spare parts.

CE

Pipework

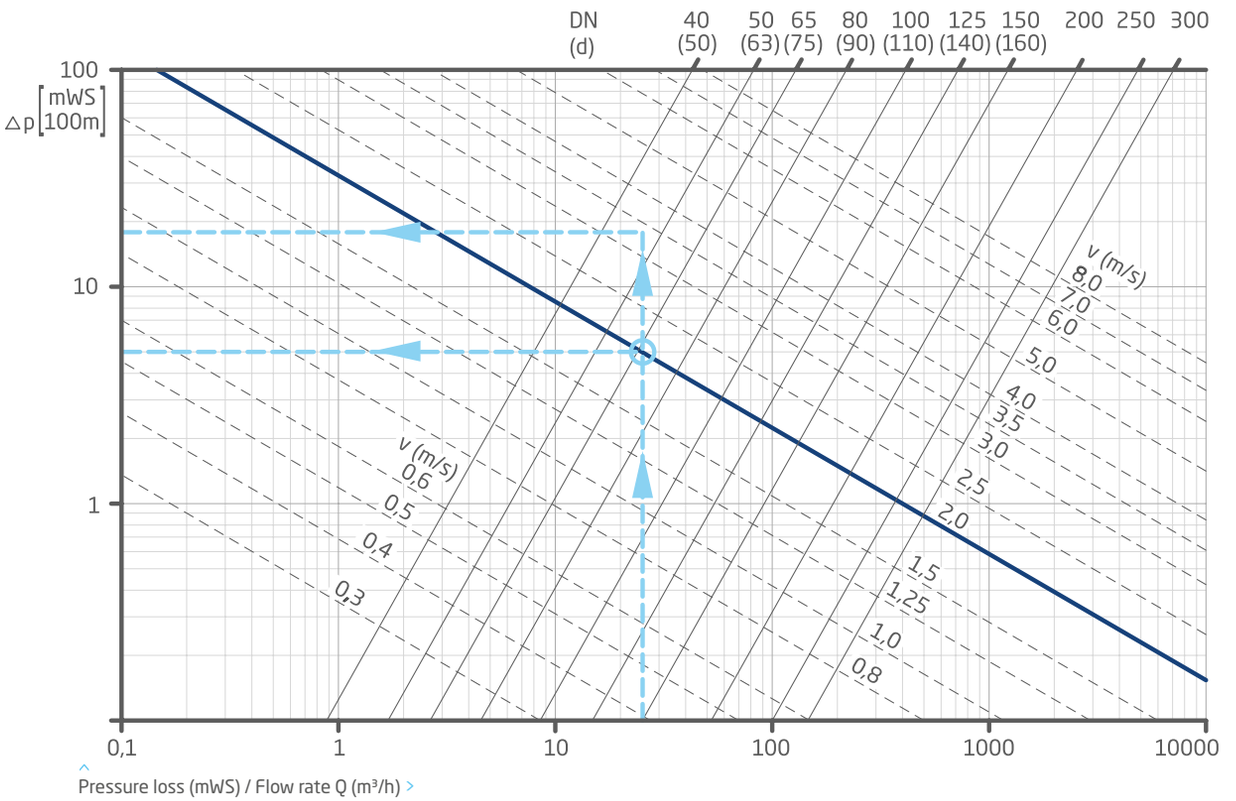
The following graphic will help you when determining pipe friction characteristics and calculating the correct pipe diameters.

Circulation pumps

Example	Q = 25 m³/h, 20 m plastic pipe with	**DN 50 ≙ d 63**	**DN 65 ≙ d 75**
	Expected loss reading as seen in the table ..	H_V = 18.00 m per 100 m ..	5.00 m per 100 m
Expected loss	20 m pipe (x 10/100)	H_V = 3.60 m	1.00 m
	Monitered flow speed	v = 3.40 m/s (too high) ..	2.00 m/s (acceptable)

DN > Inner pipe diameter in mm
d > Outer pipe diameter in mm
> Optimum flow rate in the pipe
> Example
> DN 65 or PVC d 75

The pressure loss in this example is valid for clear water at 20 °C and for liquids of similar kinetic viscosity and for new PVC U-pipes.
The pipework loss applies to new PVC-U pipes with nominal pressure rating PN 10.



Counter swim units

To achieve an almost loss free operation of counter swim units use the table to the right to dimension the pipe diameter.
The example is based on:
suction pipe (S) with two elbows and the pressure line (D) with three elbows...

58 > BADU JET Vogue . 75 > BADU JET Primavera

Q (m³/h)		Length of pipe		
		5 m	7.5 m	10 m
58	Suction line (**S**)	d 140	d 140	d 140
	Pressure line (**D**)	d 140	d 140	d 140
75	Suction line (**S**)	d 160	d 160	d 160
	Pressure line (**D**)	d 140	d 140	d 140

Motor/device protection classifications

This overview shows the safety classifications of all motors that are used in BADU PREMIUM pumps.

BADU Delta*), BADU Delta-MK*), BADU Profi, BADU Profi-MK, BADU Alpha, BADU Magna, BADU Gamma, BADU Prime, BADU EasyFit, BADU Resort, BADU 46, BADU 47

Motor protection class	IP 55
Class of insulation	F
Approx. motor speed (rpm)	2840
Max. water temperature (°C)	40 (60)[5)]
Max. casing pressure (bar)	2.5

BADU Delta Eco VS*), BADU Delta-MK Eco VS*), BADU Profi Eco VS, BADU Profi-MK Eco VS, BADU Alpha Eco Soft, BADU Eco Soft, BADU EasyFit Eco VS, BADU Gamma Eco VS, BADU Prime Eco VS, BADU Bronze Eco VS, BADU Eco Flex

Motor protection class	IP 55
Class of insulation	F
Approx. motor speed (rpm)	variable
Max. water temperature (°C)	40 (60)[5)]
Max. casing pressure (bar)	2.5

BADU 21-40, BADU 21-41, BADU 21-50, BADU 21-60, BADU 21-80, BADU 21-81

Motor protection class	IP 55
Class of insulation	F
Approx. motor speed (rpm)	2850
Max. water temperature (°C)	60
Max. casing pressure (bar)	2.5

BADU Variostar

Motor protection class	IP 55
Class of insulation	F
Approx. motor speed (rpm)	600/1800
Max. water temperature (°C)	60
Max. casing pressure (bar)	2.5

BADU Eco Drive II

Device protection class	IP 55

BADU Eco Logic, BADU BNR 300, BADU Logic 1-3, BADU OmniTronic, BADU Omni actuator

Device protection class	IP X4

BADU JET Vogue, BADU JET Vogue Deluxe, BADU JET Primavera, BADU JET Primavera Deluxe, BADU JET Perla, BADU JET Riva, BADU JET Stella, BADU BNR 400

Device protection class	IP X5

BADU JET Turbo Pro

Frequency converter protection class	IP 66
Motor protection class	IP 65
Class of insulation (motor)	F
Approx. motor speed (rpm)	variable
Max. water temperature (°C)	40

Maximum permitted ambient temperature 40 °C.
*) Maximum permitted water temperature 40 °C.

BADU® Q & A

There are some things you need to know about having your own pool in order to make the right decisions and as you're not the only one with a few questions, we've listed the most frequently asked ones for you here.
You'll be diving into your pool in no time at all ...

How high can a pump prime?

> Theoretically the maximum suction height is 10.33 m. This depends on air pressure (1033 hPa=normal). Technically a maximum suction height of approximately 7-8 m can be gained. Resistance loss in the pump, connecting lines and fixtures must be deducted. Medium dependent factors (e.g. vapour pressure, density or viscosity), may reduce the suction height further.

What is a self-priming pump?

> A self-priming pump has the ability to handle air and gas content and can aerate the suction line independently (evacuate air). During the initial start-up, the pump must first be filled with water.

Why must a self-priming pump first be filled with water?

> A self-priming pump must have a sufficient amount of water in the pump housing. Only then can air content be transported in the suction line. Therefore it is necessary to fill your BADU pump up to the inlet connection with water. Failing this, the pump may be damaged by dry running. Furthermore you shouldn't interrupt the suction process by continually turning the pump off and on, as the process will have to restart as a result.

What are the maintenance requirements of the BADU pumps?

> BADU pumps are generally maintenance free. In order to guarantee a constant flow rate and sufficient filtering of the pool water, the strainer basket must be cleaned at regular intervals. From time to time you may also carry out a visual inspection.

How should the pump be started following a long period of disuse?

> Before turning the pump on after a long period of disuse (e.g. winter), check to make sure that it can be moved easily. To do this, rotate the motor shaft lightly with the help of a screwdriver. Should the motor stick at all, this will loosen it. Should the pump still remain tight or an unusual noise become audible, have the pump examined by a trained professional.

What are wear parts?

> Wear parts are the sealing and rotating elements of a pump – the mechanical seal, O-rings, gaskets, the impeller and ball bearings. Unfortunately wear parts are not covered under the warranty, as the wear and tear of these parts is physically unavoidable – just like the tyres on your car which have to be replaced once they've been run down.

How should I best store my pump over the winter season?

> It's simple: drain the pump and store it in a dry place, protected against frost. Cover it with a dust sheet.

How should I best store my counter swim unit over the winter season?

> Counter swim units installed in outdoor pools should be protected against frost over the winter season. Lower the water level in the pool to the bottom edge of the inlet connection. Disassemble the pump and store this in a dry room. Leave the valves half open so that the space in between can be drained.

How should I best store my solar panel unit over the winter season?

> At the end of the bathing season the solar panel unit must be completely drained in order to avoid frost damage. In addition, for solar panels on flat roofs or roofs with a decline of up to 30 degrees, connecting sockets must be opened and the plates individually raised until they are completely drained.

How does the backwash function in the sand filter unit work?

> The water from swimming pools is mainly cleaned using sand filters. These must be regularly backwashed in order to loosen up the sand bed and drain off the impurities that have been filtered into it. Filter backwash units assume the various operating functions of the 6-way valve, which can be set manually by hand.
However our electronic backwash valves from the BADU Tronic series can take over this task fully automatically providing a simple and convenient alternative.

Are BADU products certified?

> SPECK Pumpen examine all of their products regularly and have them additionally tested by independent bodies. The high safety and quality standards are confirmed by various up to date examination and certification stamps. Therefore the most modern technology, standards and certified safety specifications are standard for BADU products. You will find CE, GS and other stamps on BADU products. We will be more than happy to provide you with more detailed information regarding these official seals.

Should the pump be turned off when the 6-way valve is being switched over manually?

> We recommend turning the pump off in order to avoid a surge in the unit and for ease of handling.

How do I determine the correct pump and device type?

> Every BADU product has its own classification. This can generally be found on the name plate on the pump housing. The name plate contains all important information.

Where can I buy BADU products?

> BADU products are distributed exclusively to specialist retailers. To find a representation in your local area please visit the BADU website at badu.de or contact our regional SPECK Pumpen offices, see pages 150-151.

Footnotes . Abbreviations

1) Most **single phase motors** 1~ 230 V are fitted with a built-in overload switch or a protective winding contact as a series feature. Further information can be found in the pump data sheet.
Three-phase motors are not fitted with a motor protection device.

   Special voltage, special frequency,
   2-speed or direct current motors on request.

   Suitable for standard voltage according to DIN IEC 60038 and DIN EN 60034 (Euro voltage), i.e. suitable for continuous operation at:
   1~ 220-240 V.
   3~ Y/Δ 380-420 V/220-240 V.
   3~ Y/Δ 660-725 V/380-420 V.
   Tolerances ± 5 %.
   GS approved pumps according to EN 60335-1.

2) **Thread** according to DIN EN 10226-1 and ISO 7-1.
   Descriptions for pipe thread **sealing inside the thread**.
   Internal pipe thread: e. g. Rp 1½,
   External pipe thread: e. g. R 1½.
   (sealed with teflon tape only)

3) **Thread** according to DIN ISO 228-1.
   Description for pipe thread **sealing at the end face**.
   Internal pipe thread: e. g. G 2,
   External pipe thread: e. g. G 2.
   (sealed with teflon tape only)

4) **Pipe friction characteristics** on page 142.
   Effects of pipe diameters and internal pipe friction on the flow quantity of a suction line or pressure line.

5) **Clarification of water temperature 40 °C (60 °C)**
   40 °C is the max. water temperature allowed according to GS approval, however the pump is suitable/configured for a max. water temperature of 60 °C.

6) **Permitted limits for stainless steel parts**
   Chloride ion content max. 400 mg/l (400 mg/l chloride is equivalent to 0.66 g/l salt = 0.066 %), pH value 6.8 - 8.2.

7) Recommended retail price for Germany incl. 19 % VAT.
   Valid from 01.01.2021. All previous prices are therefore no longer valid. When ordering please always specify the article number. Sales exclusively via specialist retailers.
   Carriage paid and packaging included on orders within Germany from a net order value of 1,500.00 €.
   Delivery of goods below a net order value of 50.00 € are generally without deduction, ex-works. Subject to additional material charges depending on DEL notice rates.
   Sales according to our general terms and conditions.

Materials:

ABS	Acrylonitrile butadiene styrene copolymer
G-Cu Sn 10	Cast bronze
GG-20	Cast iron
NBR	Acrylonitrile butadiene rubber (perbunan)
PA	Polyamide
PA 66 GF 30	Polyamide, glass fibre reinforced
PC	Polycarbonate
POM GF 30	Polyoxymethylene, glass fibre reinforced
PP	Polypropylene
PP GF 30	Polypropylene, glass fibre reinforced
PP TV 40/PP TV 20	Polypropylene, talc reinforced
PPE GF 30	Polyphenylene Ether, glass fibre reinforced
PVC	Polyvinyl chloride
SAN	Styrene-acrylonitrile copolymer

1 bar = 100,000 Pa
1 bar = 10.2 m water column

Characteristics measured according to EN ISO 9906;
Flow rate Q = ± 10 %, total dynamic head H = ± 8 %.

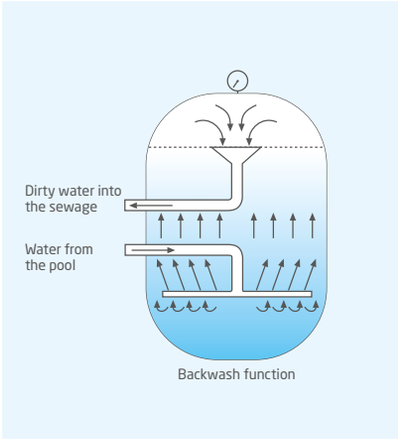
Self-priming pumps are tested according to DIN EN 16713-2. Minimum geodetic suction height 1.5 m. Average approx. 3 m (approx. 0.5 m for BADU 21-80 S). Pumps must be filled with water when priming.

BADU® GLOSSARY OF TERMS

On the following pages you will find explanations for professional and technical terminology. Because knowledge leads to better decisions.

2-phase operation
A three-phase motor has three windings. If one winding fails, for example because a phase in the supply line fails, the motor continues to run with excessive current consumption and can overheat. A motor overload switch is required to monitor the three-phase motor (set to motor rated current).

Backwash
Your filter must be cleaned on a regular basis because some dirt remains in the medium during filtering. In pool technology this takes place according to the simple principle of backwashing: the flow direction of the filter current is reversed. Pieces of dirt in the filter are loosened and are led by the backwash water out of the filter and into the sewage. The backwash procedure can be carried out manually with the BADU Mat valve or fully automatically, for example with the BADU EasyTronic.



Backwash function

BADU GREEN
The intelligent and maximum efficiency products in the BADU GREEN range are developed with the aims of saving energy and protecting the environment – for a clear conscience and more bathing pleasure.

Ball bearings
Are a sub-group of anti-friction bearings in which the balls serve as the rolling elements. Bearings are important in order to support the power on moving parts (e.g. motor shaft). In addition to this they reduce power loss caused by friction and minimise material wear. As ball bearings are dynamic, rotating parts, they belong to the wear and tear parts.

Built-in overload switch
A bimetal switch found in many single phase motors which protects the motor winding from overheating. In other words it switches the motor off when the heat reaches a certain temperature. The built-in overload switch isn't a switch in the classic sense. You can't find it and press it because it is installed deep inside the motor. It works fully automatically and is self-resetting: it turns the motor back on after cooling down. For safety reasons please interrupt the power supply and call your pool specialist nevertheless, should your pump turn itself off due to obvious overheating.

CE symbol
An EU label documenting that a product meets all valid standards and requirements. The CE symbol is not strictly a test seal. It's more of an administration symbol expressing the marketability within the European Single Market. You can download the declaration of conformity for your BADU product online at badu.de.

Characteristics
Describes the pump capacity of a BADU pump per hour depending on the flow rate in metres. The characteristics are often used to determine the working point or operating point. This point should be in the middle area so that your pump works at optimal efficiency.

Circulation pump
All BADU pumps are centrifugal pumps. This pump construction type works with a rotating impeller, which turns inside the pump housing at high speed.
The impeller is driven either by a motor on the same drive shaft or by a motor which is separated from the pump housing.

Continuous sound intensity level
Describes the volume of a sound source. The size of a sound pressure level was introduced so that the range of values 0 to 150 dB(A), which the human ear can process, are used and portrayed sensibly. As a guide: a calm conversation creates a sound pressure level of approx. 60 dB(A) – the BADU Delta Eco VS pump range, for example, is quieter. You will find the exact values for BADU products in the data sheet which is included in delivery and these are of course also available on request. Values are measured at a distance of 1 m with a phonometer according to DIN 45635.

Counter swim unit
Brings movement to your pool. An integrated, powerful centrifugal pump primes pool water extensively and at a low priming speed. The water is returned to the swimming pool under high pressure via one or more adjustable nozzles. Counter swim units are a great attraction – for fun, sport and as a massage device.

Electrical separation
Due to the impeller construction and the insulating plastic components, all pumps in the BADU plastic ranges have electrical separation. Therefore the motor shaft has no contact with the pool water. This is not the case for BADU cast iron and bronze ranges, which don't have electrical separation.

Filter dimensioning
The filter surface required for your sand filter is calculated from the pump's flow rate and the flow speed in the filter. This should not exceed 50 m/h. The slower the filter speed, the more effective the filter is.

Flow rate
Indicates the water quantity that can be handled. The flow rate and the total dynamic head are the most important criteria when selecting a circulation pump. The values are directly related and result in the operating point.

GS symbol
A German test seal assigned by independent, external examination boards (e.g. the technical control board TÜV). GS, meaning "certified safety", certifies a product as corresponding to the requirements of the product safety law established in the German DIN and European CEN standards. BADU products are regularly GS tested. Therefore, from an independent view, they are up to date with current technology and correspond to the current standards.

Maintenance
BADU products are generally maintenance-free. For self-priming BADU pumps the strainer basket must be checked and cleaned on a regular basis (once a week). A regular sight check to see whether the pump and unit are working correctly and are water tight is also a good idea.
Before the first frost, the pumps and counter swim units must be correctly prepared for winter storage. Please see the relevant instruction manual for more details.

Materials used
As a trademark of SPECK Pumpen, BADU has decades of experience in the construction of innovative pumps and in pump technology as well as in using plastics for constructing pumps. BADU products are predominantly made of glass fibre or talc-reinforced plastic. The materials used stand up to the requirements of swimming pool water (and the typical chemicals used). They are corrosion resistant and can, almost without exception, be recycled after use. For more information regrading BADU materials please see page 145 of this catalogue.

Mechanical seal
Dynamic seals which seal the rotating shaft reliably against a wall. For example, the motor shaft against the pump housing. They consist of two components which slide against each other (slide ring and counter ring). As the mechanical seal is a dynamic, rotating part, it belongs to the wear and tear parts.

Motor overload switch
Protects the motor against overloading. Unlike a built-in overload switch, the motor overload is not self-resetting. It must be manually reset after having been triggered. Please do not attempt to reset the motor overload switch yourself, but contact your pool professional. Three-phase motors don't have an integrated motor overload switch, but require an individual solution from the professional electrician on site. A motor overload switch is, for example, built into the single phase versions of the BADU Prime 7 to BADU Prime 20 and BADU Bronze ranges.

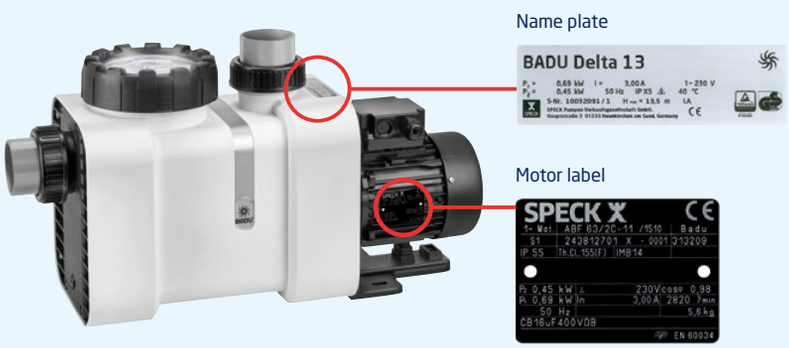
Name plate
Every pump or counter swim unit has a type description. This can be found on the pump housing, on a silver sticker. This name plate includes all important information regrading the product (description, rated current, voltage, serial number). Should you have any questions at all, note down the description and serial number and pass these on to your swimming pool specialist or to us. Even if you simply require some spare parts, these details are very important.

Non-self-priming pumps
As opposed to self-priming pumps, non-self-priming pumps (e.g. BADU 46) cannot transport air. Non-self-priming pumps generally have to be installed below the water level so that the water to be pumped can flow to it independenly. They are often a good choice for pool attractions, counter swim units and whirlpools.

BADU 46

Operating capacitor
An electrical component which can save electric loads and therefore also energy. This can be compared to a battery. The amount of energy saved is called electrical capacity, measured in the unit "Farad". Capacitors are built into BADU pumps in order to absorb changes in voltage. This component belongs to the wear and tear parts.

Example name plate BADU Delta



Operating point

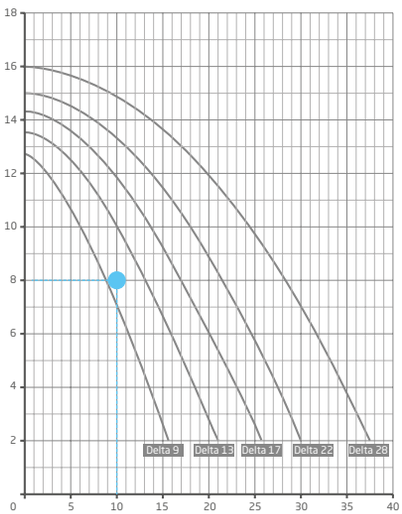
The operating point or working point is a specific point on the characteristics diagram or curve of a pump which is defined as a reference for the current application situation. When selecting the optimal filter pump a variety of factors have to be taken into consideration, therefore an experienced pool professional should always be appointed to do this. These specialists know all of the requirements and can balance and set the system components.

Calculation example - operating point

10 m³/h for sand filter, generally 0.8 bar (8 m)

Result

The BADU Delta 13 reaches the desired flow rate of 10 m³/h with the required total dynamic head of at least 8 metres.



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

Permanent magnet motors (PM)

Built like a three-phase synchronous motor. The rotor has a permanent magnet and the fixed stator comprises the coils which are controlled at staggered intervals by an electric switch. Permanent magnet motors are especially efficient. Almost all BADU GREEN pumps work with this motor type. Many other ranges can be individually fitted with PM motors on request.

Pipe assembly

Depending on the connection variations of the pump type, teflon band is used for thread connections or the unions enclosed are used for assembling the pipes. ABS unions have a minimum curing time of 12 hours. Important: plastic threads may not be sealed using hemp.

Pipe dimensioning

In a pipe there is physical frictional loss. The higher the flowing speed of the pumped medium (e.g. water), the higher the frictional loss. Pipe friction loss must be taken into consideration in the planning phase so that the calculated pipe dimensioning doesn't prevent efficient operation of the pool system. Using the pipe characteristics on page 142 you can calculate the pipe friction loss and the flow speed and determine your optimum pipe dimensioning.

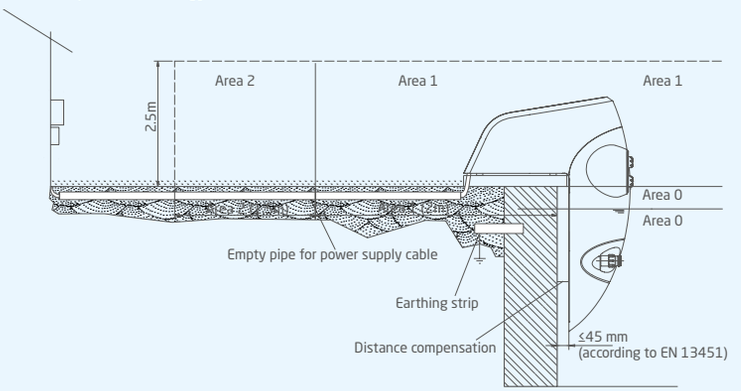
Pre and final assembly kits

BADUJET submerged counter swim units always consist of two different sets of components which together make a functioning unit. In the pre-assembly kit you will find all of the parts required when building your pool. For example the main housing which is installed in the pool wall. The final assembly kit is needed when the building phase is advanced enough for the cover, nozzles, pump and electronics to be installed. You can install the pre-assembly kit first of all and complete your unit at a later stage with the final assembly kit.

Protection area

There are various protection areas from 0 to 2 for connecting and equipping electrical devices in the pool area. BADU pumps and counter swim units may be installed in protection area 1. The degree of protection for motors in this protection area is defined with IP X5/4 and is met by BADU products. The high supply voltage is irrelevant in this case as the products are permanently installed.

Protection areas in pool technology



Protection classification

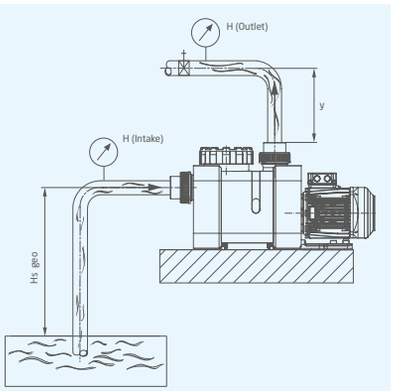
Indicates the suitability, for example of motors, for various environmental conditions. In addition it protects people against potential danger when using them. Pumps and counter swim units have to work safely, under difficult conditions for many years. With regard to their suitabilty for various conditions, the products are divided into so-called IP codes (Internaional Protection Codes). BADU pumps and counter swim units are generally configured for the protection classification IP X5. That means that motors are protected against hose water from any angle.

Priming speed

Describes the water speed in m/s at the priming point (the suction). This is an important measurement, for example when reviewing counter swim units. BADU products are developed for safety. The priming speed of a BADU counter swim unit corresponds to or exceeds the valid EU norms and standards.

Priming time

This is the time a pump needs to prime the water until the suction line is completely evacuated. This time depends on the length and diameter of the pipe, how high above the water level the pump is positioned and of course the pump itself, e.g. capacity and type.



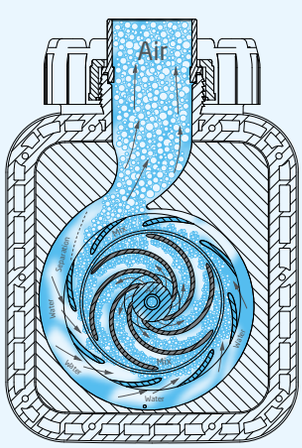
PTC resistor sensor
If the motor speed decreases, the cooling of the motor is also reduced. If the speed drops too much, the cooling may no longer be sufficient. PTC resistor sensors, or PTC thermistors, are built into the motor winding of the BADU Prime 25 to BADU Prime 48, BADU Profi and BADU Resort ranges.They serve as a continuous and precise temperature monitor in the motor - in particular where the motor speed is controlled via an external frequency converter. When the temperature increases, the electrical resistance in a PTC resistor sensor increases. This temperature monitoring concept is much more precise than the commonly used rated current monitoring, which is built into frequency converters.

Rinsing
Following a backwash cycle it is necessray to carry out the rinsing procedure. Any residue or erosion from the filter materials remaining following the backwash will be drained off during rinsing. This procedure takes 30 to 60 seconds.

Salt electrolysis
Over the last few years salt water electrolysis has become a popular alternative to the classic chlorine disinfection. During this disinfection procedure the water is enriched with salt (total salt concentration approx. 0.4 %).
BADU pumps in standard variations are suitable for a total salt concentration of 0.5 %, i.e. 5g/l, for this procedure.

Self-priming pumps
The typical circulation pump in pools and swimming baths. Self-priming pumps can, unlike non-self-priming pumps, transport air and can evacuate the suction line independently once the pump housing has been filled for the first time. This is a very flexible pump concept. Self-priming pumps can be installed above or below the water level.

Functional diagram BADU Delta



Single phase asynchronous motor
Operated with one phase and 230 V – normal household electricity. The motor consists of two parts: an external, fixed stator and a rotor, which rotates inside it. All BADU single phase motors are equipped with an integrated operating capacitor and have two windings (main and auxiliary winding).

Strainer basket
Stops larger pieces of debris from getting to the pump and protects against faults and blockages. You should therefore never run your pump without the strainer basket. Depending on the location of your pool and the time of year, the strainer basket is contaminated to varying degrees.
If the strainer basket is contaminated or full, the pump's flow rate will decrease and it is no longer possible for a sufficient circulation to take place. It's best to check the strainer basket once a week.

Telescopic foot
A so-called telescopic support foot is available for BADUJET overhang counter swim units. This is necessary for above ground pools which don't have a suitable edge. The foot provides stability necessary for the unit and its height can be adjusted.

Three-phase motor
Three-phase asynchronous motors are mostly operated on a special three phase power supply system with 400 V – commonly known as a high voltage current. The motor normally consists of two parts: an external, fixed stator and a rotor, which rotates inside it. Because of the three phases, these motors generally also have three windings. Attention must be paid to the direction of rotation during connection and the initial start-up (arrow on motor housing). Under certain conditions (see PTC resistor sensor), three-phase motors are suitable for operation on external frequency transformers for variable speed adjustment.

Three-way opening device
Used to open the lids of the BADU Prime 25 to BADU Prime 48 and BADU Resort quickly and easily. With this special tool the screw connections can be opened easily.

Total dynamic head
Indication of the height from the water level to the highest point of the pressure line. Warning: as well as the height difference, values for the total dynamic head also include the pressure loss resulting from pipework and installation pieces. The calculations should always be carried out by a trained pool specialist.

Universal opening device
Special tool for opening the lid on various BADU pumps easily. Also available in sickel form for the BADU Magna.

Universal opening device

Sickel opening device

Water level
Refers to the height level of the water surface of your pool.

Wear and tear
BADU products are made from high quality materials. Moreover they are designed to withstand the requirements and strains of their applications for as long as possible. However, in technology, wherever things move and parts rub against each other, material consumption and erosion occurs -wear, on wear and tear parts. Wear and tear cannot be completely remedied. However it can be avoided. BADU products are optimised for minimal wear during each phase of their development. In doing so, we protect resources, the environment and our customer's patience. The few remaining wear and tear parts are readily available via our BADU customer service: rotating/ dynamic parts, mechanical seals, ball bearings etc. Now you'll surely appreciate why wear and tear parts are not covered under warranty.

Winter storage
Before the first frost you should empty your circulation pump because the water inside will expand as it freezes and thereby damage the pump. The instruction manual explains in detail how to approach this properly.

LOCATIONS

Germany

SAXONY, THURINGIA, SAXONY-ANHALT, SOUTHERN BRANDENBURG

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INDEX

Products

SERVICE

INDEX

A to Z

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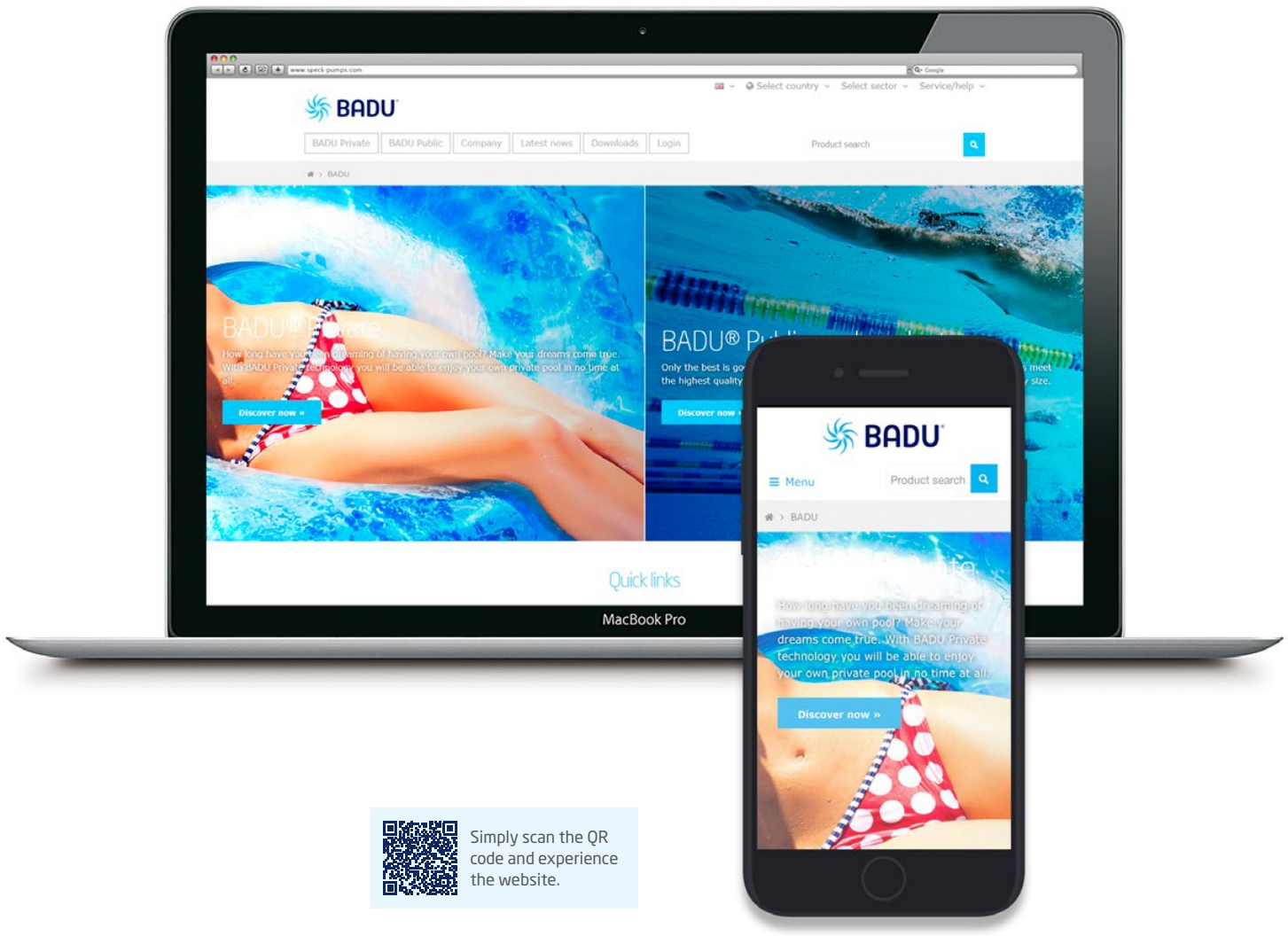

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KEY

Circulation pumps

00 m³/h

Performance
The maximum amount of water that can be transported by a pump. Specification in cubic metres per hour (m³/h). 1 cubic metre = 1,000 litres.

00-00 m³

Pool size
The maximum pool volume that a pump can handle at optimum performance. Specification in cubic metres. 1 cubic metre = 1,000 litres.

D, A, R

Motor control
Type of external motor control:
D - Digital potential-free
A - Analogue 0-10 V and 4-20 mA
R - RS485

Counter swim units

00 m³/h

Performance
The maximum amount of water that can be transported by a pump. Specification in cubic metres per hour (m³/h). 1 cubic metre = 1,000 litres.

Pool type - above ground
The pool type for which a counter swim unit is suitable. Above ground pools are free standing pools on a level surface.

Pool type - partially-submerged
The pool type for which a counter swim unit is suitable. Partially-submerged pools are partly built-in to the ground.

Pool type - built-in
The pool type for which a counter swim unit is suitable. Built-in pools are completely submerged in the ground.

KEY

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Above ground pools are free standing
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Partially-submerged pools are partly
built-in to the ground.

Pool type - built-in
The pool type for which
a counter swim unit is suitable.
Built-in pools are completely submerged
in the ground.

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SPECK pumpen

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