BA150E Diesel Driven

Dewatering and Sewage Pump

Max. 475 m^3/hour, Max. 35 mwc

Pump specifications:

Type	BA150E D285
Max. flow	475 m^3/hour (2091 US gpm)
Max. pressure	35 mwc (115 ft.)
Solids handling	80 mm (3,15")
Impeller type	Semi-open impeller
Priming system	BBA MP50
Engine	Perkins 404D-22T
Emission compliant	Stage IIIA
Canopy	M10-23X
Connections	DN150 (6")
Sound level L_{PA}	65 dB(A) at 10 m
Dry weight	1625 kg (3582 lbs)

FEATURES

BA auto prime pump

The BA range of pumps has been designed with a clear focus on reliability, efficiency and durability. Featuring a 100% mechanical priming system, the BA series pumps quickly prime and re-prime, even from dry conditions. The heavy build style of both pump and canopy make the BA range perfect for use in the strenuous contractor market.

World-class performance

The BA range is built to be deployed on the most demanding dewatering and sewage bypassing applications. Using high efficiency pumps and state-of-the-art diesel engines, the pumps offer maximum performance at minimal cost, fully in-sync with the company philosophy of “Lowest cost of ownership”.

Sustainability

- High efficiency pumps minimising fuel consumption
- Corrosion free hot dip galvanized canopy
- Corrosion free composite door panels
- 100% Oil-spill free priming system
- Fully bunded unit eliminating fuel/oil spills at all times

Complete package designed & built by BBA Pumps

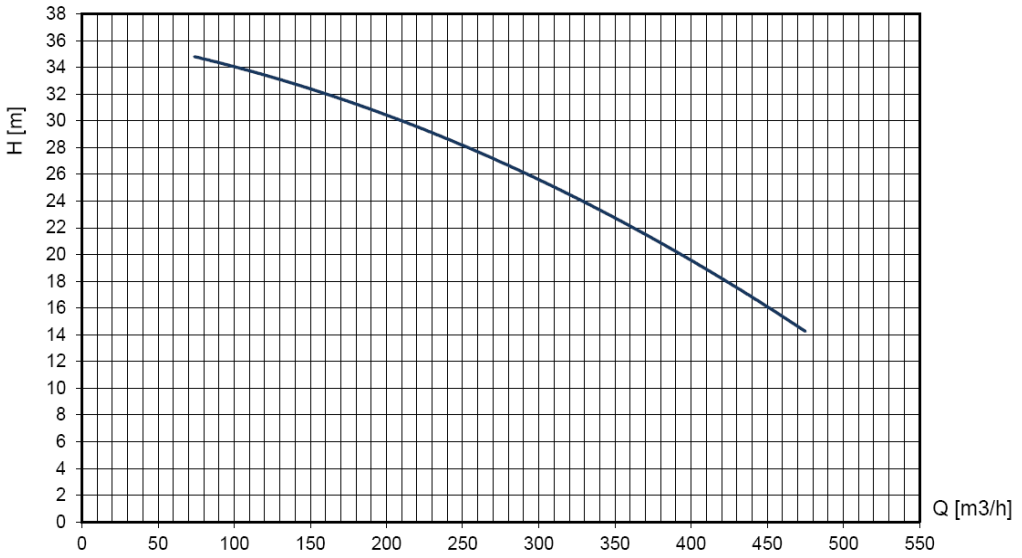
- Complete in-house design & production
- Over 70 years of experience in the market
- Extensive testing facility in-house
- Contemporary & functional design
- Durable & eco-friendly materials
- Custom builds available

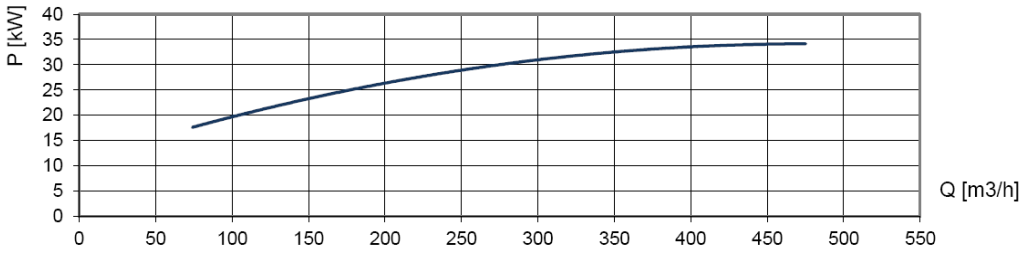
After sales service & product support

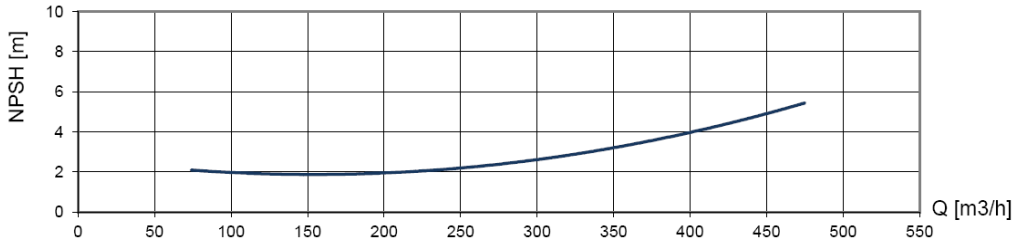
- Single supplier for parts, spares & accessories
- Dedicated customer help-desk (24h service)
- Dedicated service department in-house
- Global parts distribution network
- Optional global on-site servicing
- Extensive training options available (technical & commercial), on-site or in-house

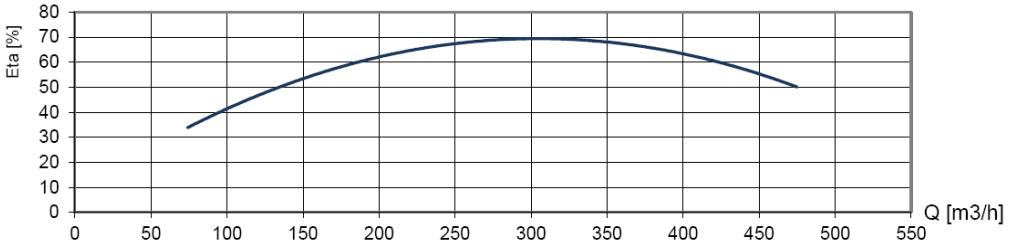
PERFORMANCE CURVES (1800 RPM)

Continuous duty according ISO 9906









Engine speed rpm		Capacity Q in m³/h 150	250	350	450	Fuel consumption (BEP) l/h
1800	**H**	32	28	23	16	10
1700	mwc	29	25	20	14	8
1600		25	21	16	10	7
1500		22	18	13	6	6

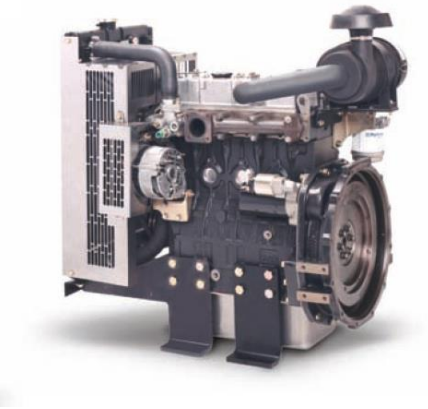
BBA Pumps

BA150E Diesel Driven
Dewatering and Sewage Pump
Max. 475 m^3/hour, Max. 35 mwc

STANDARD TECHNICAL SPECIFICATIONS

BBA auto prime pump

Pump type	BA150E D285
Max. flow	475 m^3/hour (2090 US gpm)
Max. head	35 mwc (115 feet)
Impeller type	Semi-open impeller
Solids handling	80 mm (3,15 inch)
Pump casing	Cast iron GG25
Impeller	Chrome Moly 42CrM04
Self-cleaning wear plate	Chrome Moly 42CrM04 (cutter slots)
Pump shaft	42CrMo4 heat treated
Shaft seal	Mechanical seal
Seal faces	Tung/Sic
Seal rubber	Viton



BBA priming system

Pump type	BBA MP50 Diaphragm pump
Air handling capacity	50 m^3/h (30 CFM)
Max. vacuum	8.5 m (29 inHg)
Drive	Toothed belt (continuous drive)
Float box	Aluminium
Non return valve	Cast iron GG25
Check valve disc	Buna-N

Engine

Engine brand	Perkins
Engine type	404D-22T
Flywheel power	36,4 kW (49 Hp)
Max. engine speed	1800 RPM
Fuel consumption	237 g/kWh
Displacement	2,2 l
Number of cylinders	4
Cooling system	Water cooled
Emission compliant	Stage IIIA

BBA dashboard LC20
- Auto start/stop system
- Two float switches included (10m cable)
- Switch Manual-0-Auto
- Tachometer
- Hour counter
- Warning lights “oil and engine temperature”
- Warning light “auto stand-by”

Fuel system
- PE fuel tank 300 L. net (80 US gallons)
- Fuel gauge on tank
- Mechanical fuel injection system
- Fitted with water separator & extra in-line fuel filter

Electrical system & safety features
- Premium quality battery
- Low oil pressure shut down
- High temperature shut down

PUMPS FROM HOLLAND

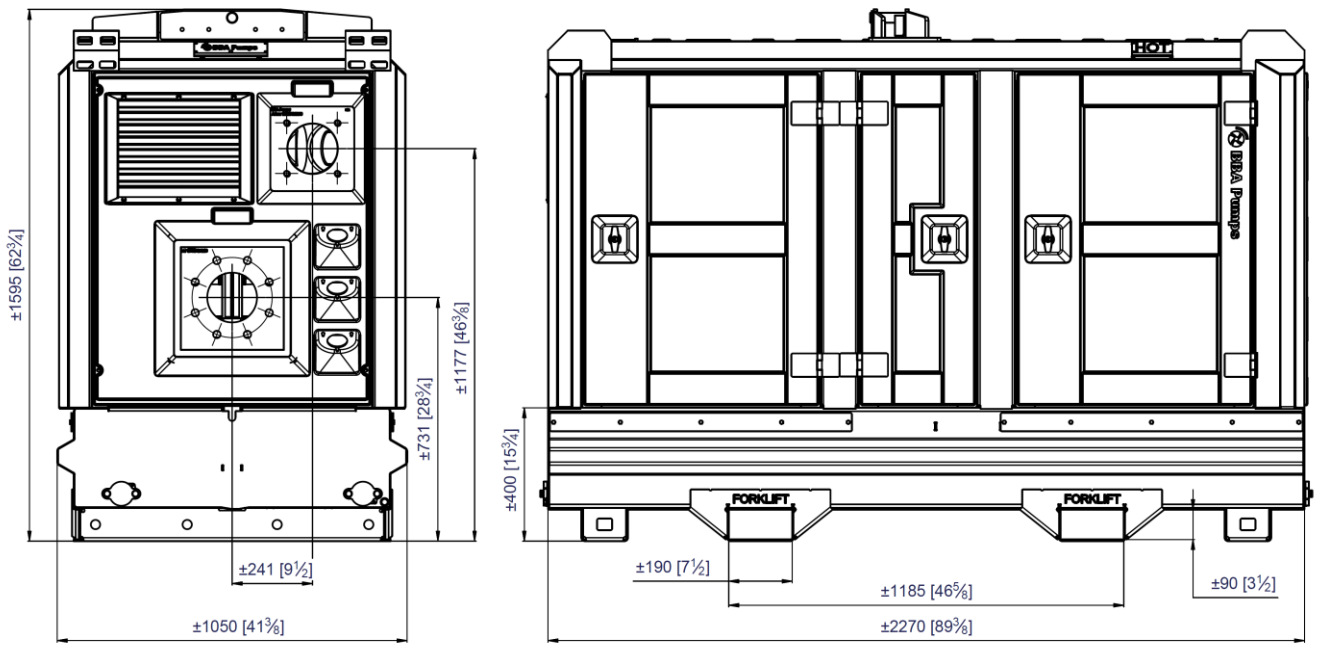
CANOPY M10-23X

BBA sound attenuating canopy

Canopy type	M10-23X
Dimensions L x W x H	2270 x 1050 x 1595 mm
Dimensions L x W x H	89.4 x 41.3 x 62.8 inch
Basic frame	Hot dip galvanized
Doors	6 lockable composite doors
Fuel tank	PE net 300 liters (80 US gallons)
Fuel tank autonomy	30 hours (at 1800 rpm BEP)
Fuel tank cap	100 mm (4 inch)
Forklift pockets	Fitted with 2 forklift pockets
Lifting point	Fitted with single lifting point
Stackable	Canopy is stackable
Exhaust system	Fully integrated in canopy
Additional	Fitted with oil-water separator
Connections	Please consult “auxiliary items” in overleaf
Sound power level (L_{WA})	94 dB(A) according ISO 3744:2010
Documentation box	BBA user manual and warranty book

BBA E-lift© system

The M10-23X canopy has been fitted with the BBA E-lift© system. By removing the roof panel, the pump and diesel engine as a whole can be removed from the canopy effortlessly allowing easy preventative maintenance on the pump and diesel engine. In addition, as the canopy is not fitted with padding or insulation materials, it can be cleaned quickly using a pressure washer.



Actual dimensions (in mm & inches) may vary depending on selected quick couplings.

Semi-open impeller
Corrosion and abrasion resistant pump impeller made of chrome moly (42CrM04) alloy.

Large inspection covers
Easy access to float box, impeller and non-return valve.

Easy inspection
Oil glasses, drain valves and fill plugs are all easily accessible.

Fuel tank
Fully bunded, corrosion-free, 300 liter, high-density polyethylene (HDPE) fuel tank, located in base of canopy.

Safety
Extremely durable and lockable T-locks offering perfect grip.

4 Year limited warranty
The BBA limited warranty covers years or operating hours whichever occurs first. For more details please consult the BBA warranty book.

Pump specifications are subject to change without prior notice to improve reliability or design.

PUMPS FROM HOLLAND

AUXILIARY ITEMS

M10-23 Kit

93050002	**M10-23 Kit**	
	- K0 Oil drain pump	
	- External fuel tank connections	
	- Battery isolator switch	

Discharge connections

Art.nr.		Ø inch	Ø mm	Connection	
5080873	30°	6	150	Flange K240	
1516604209	30°	8	200	Flange K295	
5080876	30° female (cup)	6	150	System B	
5080881	30° male (ball/lever)	6	150	System B	
5080877	30° male (ball)	6	150	System C	
5080882	30° female (cup/lever)	6	150	System C	

Suction connections

Art.nr.		Ø inch	Ø mm	Connection	
5080884	30°	6	150	Flange K240	
1516604208	30°	8	200	Flange K295	
5080889	30° female (cup)	6	150	System B	
5080890	30° male (ball/lever)	6	150	System B	
5080887	30° male (ball)	6	150	System C	
5080888	30° female (cup/lever)	6	150	System C	

Suction hose with strainer L=5 metre

Art.nr.	Ø inch	Ø mm	Connection	
7047054	6	150	Flange K240	
7047057	8	200	Flange K295	
7047007	6	150	System B male (ball/lever)	
7047037	6	150	System C female (cup/lever)	

Suction hose with strainer L=6 metre

Art.nr.	Ø inch	Ø mm	Connection	
7047055	6	150	Flange K240	
7047058	8	200	Flange K295	
7047008	6	150	System B male (ball/lever)	
7047038	6	150	System C female (cup/lever)	

Recommended suction pipe diameter (maximum velocity = 4 m/sec)

M3/H	US gallons	FLOW (L/sec)	4" 100	5" 125	6" 150	8" 200	10" 250	12" 300
252	**1110**	70	8.91	5.70	3.96	2.23	1.43	0.99
288	**1268**	80	10.19	6.52	4.53	2.55	1.63	1.13
324	**1427**	90	11.46	7.33	5.09	2.86	1.83	1.27
360	**1585**	100	12.73	8.15	5.66	3.18	2.04	1.41
403	**1775**	112	14.26	9.13	6.34	3.57	2.28	1.58
432	**1902**	120	15.28	9.78	6.79	3.82	2.44	1.70
468	**2061**	130	16.55	10.59	7.36	4.14	2.65	1.84
504	**2219**	140	17.83	11.41	7.92	4.46	2.85	1.98

PUMPS FROM HOLLAND