

Closed-coupled Pump

Etachrom BC

50 Hz - 60 Hz

Type Series Booklet



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Type Series Booklet Etachrom BC

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Standardised / Close-coupled Pumps

Close-coupled Pumps

Etachrom BC



Operating data

Operating properties

Characteristic		Value	
		50 Hz	60 Hz
Flow rate	Q	Up to 250 m ³ /h [69.4 l/s]	Up to 184 m ³ /h [51 l/s]
Head	H	Up to 108 m	Up to 107 m
Operating temperature	t	-30 °C to +110 °C	
Operating pressure	p	Up to 12 bar ¹⁾	

Designation

Example: Etachrom BC 50-160 C10

Key to the designation

Code	Description
Etachrom	Type series
B	Close-coupled design
C	Casing material
C	CrNiMo steel 1.4571
50	Nominal discharge nozzle diameter [mm]
160	Nominal impeller diameter [mm]
C10	Seal code of the mechanical seal
C5	Q1Q1M1GG
C9	U3U3VGG
C10	Q1Q1X4GG
C11	BQ1EGG

Applications

- Water supply systems
- Fire-fighting systems
- Spray irrigation systems
- Irrigation systems
- Drainage systems
- Hot-water heating systems
- Air-conditioning systems

Fluids handled

Pump for handling clean or aggressive fluids not chemically and mechanically aggressive to the pump materials.

- Drinking water
- Service water
- High-temperature hot water
- Cooling water
- 0.4 to 1.4 mg/l free chlorine and max. 0.6 mg/l combined chlorine; pH value 6.9 to 7.7; water hardness TH 10° to 30° Salt content up to 7 g/l
- Fire-fighting water
- Condensate
- Oil

Design details

Design

- Annular casing pump
- Close-coupled design
- Back pull-out design
- Horizontal installation
- Single-stage
- Dimensions and ratings to EN 733
- Rigid connection between pump and motor
- Pump and motor on a common shaft

Pump casing

- Annular casing with welded-on or bolted-on pump feet
- Replaceable casing wear rings

Drive

- KSB IEC frame standardised IE2 motor (from 0.75 kW)
- Design V1 ≤ 4 kW
- Design V15 > 4 kW
- Winding 50 Hz: 220-240 V / 380-420 V up to 2.20 kW; 380-420 V / 660-725 V from 3.00 kW
- Winding 60 Hz: 440-480 V
- IP55 enclosure
- Thermal class F
- 3 PTC thermistors

¹⁾ The sum of inlet pressure and shut-off head must not exceed the value indicated.

Shaft seal

- Standardised mechanical seal to EN 12756

Pump sizes 65-250/..., 80-200/..., 80-250/...

- Shaft equipped with a replaceable shaft sleeve in the shaft seal area

Bearings

- Radial ball bearings in the motor housing
- Grease lubrication

Automation

Automation options:

- Hyamaster
- PumpDrive
- PumpMeter

Materials

Overview of available materials

Component	Material
Annular casing	Chrome nickel molybdenum steel 1.4571
Discharge cover	Chrome nickel molybdenum steel 1.4571
Impeller ²⁾	Chrome nickel molybdenum steel 1.4571
Casing wear rings	Chrome nickel molybdenum steel 1.4571
Shaft	Chrome nickel molybdenum steel 1.4571
Drive lantern	Grey cast iron JL 1040 ³⁾

Product benefits

- Maintenance-free mechanical seal ensures operating reliability
- Easy to dismantle due to back pull-out design; no need to remove the pump casing from the piping
- Optimised hydraulic components for high efficiency help reduce energy consumption

Product Information as per Regulation No. 547/2012 (for Water Pumps with a Maximum Shaft Power of 150 kW) Implementing "Ecodesign" Directive 2009/125/EC

- Minimum efficiency index: see data sheet
- The benchmark for most efficient water pumps is MEI \geq 0.70.
- Year of construction: see data sheet
- Manufacturer's name or trade mark, commercial registration number and place of manufacture: see data sheet or order documentation
- Product's type and size identifier: see data sheet
- Hydraulic pump efficiency (%) with trimmed impeller: see data sheet

- Pump performance curves, including efficiency characteristics: see documented characteristic curve
- The efficiency of a pump with a trimmed impeller is usually lower than that of a pump with full impeller diameter. Trimming of the impeller will adapt the pump to a fixed duty point, leading to reduced energy consumption. The minimum efficiency index (MEI) is based on the full impeller diameter.
- Operation of this water pump with variable duty points may be more efficient and economic when controlled, for example, by the use of a variable speed drive that matches the pump duty to the system.
- Information relevant for disassembly, recycling or disposal at end of life: see installation/operating manual
- Information on benchmark efficiency or benchmark efficiency graph for MEI = 0.7 (0.4) for the pump based on the model shown in the Figure are available at: <http://www.europump.org/efficiencycharts>

²⁾ Impeller of sizes 50-200, 65-200, 80-200 and those of nominal diameter 250: chrome nickel molybdenum cast steel 1.4408
³⁾ GJL-250 to EN 1561

Selection table

The table listing fluids handled is a selection tool for drainage duties. It should be used for orientation and is based on KSB's many years of experience. The data are reference values and should not be considered to be generally binding recommendations. They shall not be the basis for warranty claims. Please contact your nearest KSB sales branch and/or our technical departments for in-depth advice.

Example: Pure water, 15 °C; Q = 40 m³/h; H = 51 m
Selection: Etachrom BC 40 - 200 C11
 40-200 Size (2900 min⁻¹ as per characteristic curve)
 C11 Variant code (according to selection table)
 Motor rating required: 11 kW

Selection table

Fluids handled	Application limits		Shaft seal Mechanical seal			
	Percentage [%]	Temperature [°C]	Q1Q1M1GG	U3U3VGG	Q1Q1X4GG	BQ1EGG ⁴⁾
			Variant code			
	C5 ⁵⁾	C9	C10	C11		
Alkaline cleaning agents	-	-	-	-	X	-
Alcohol (ethanol)	-	-	-	-	-	X
Ammonia water (ammonia solution)	≤ 10	≤ 60	-	-	-	X
Ammonium bicarbonate	≤ 10	≤ 40	-	-	-	X
Antifrogen (alcohol-based)	-	-	-	-	-	X
Cider	-	-	-	-	-	X
Ethanol (alcohol)	-	-	-	-	-	X
Ethylene glycol ⁶⁾	-	-	-	-	-	X
Petrol	-	-	X	-	-	-
Beer mash	-	≤ 100	X	-	-	-
Spirits	-	-	-	-	-	X
Butanol	-	-	-	-	-	X
Butanoic acid	100	≤ 30	-	-	-	X
Calcium acetate	10	-	-	-	-	X
Calcium nitrate	≤ 10	≤ 30	-	-	X	-
Deionised water (fully desalinated water) ⁷⁾	-	-	-	-	-	X
Distilled water	-	≤ 60	-	-	-	X
Diesel oil	-	-	-	-	X	-
Decarbonised water ⁸⁾	-	≤ 60	-	-	-	X
Peanut oil	-	-	-	-	X	-
Vinegar (= 5 % acetic acid)	≤ 5	-	-	-	-	X
Ethanol	-	-	-	-	-	X
Ethylene glycol/diethylene glycol ⁶⁾	-	-	-	-	-	X
Fire-fighting water ⁸⁾	-	≤ 25 ⁹⁾	-	-	X	-
Antifreeze (ethylene glycol) ⁶⁾ , no cooling brines	-	-	-	-	-	X
Tannic acid	≤ 50	SP ¹⁰⁾	-	-	-	X
Glycol (ethylene glycol) ⁶⁾	-	-	-	-	-	X
Glycol-water mixture ⁶⁾	-	-	-	-	-	X

- 4) Combinations of soft/hard contact face materials (BQ1) can only be used for fluids up to a total solids content of 50 mg/l. Higher solids contents will result in leakage and/or a shorter service life.
 5) Shaft seal C5, dependent on the direction of rotation
 6) Antifreeze on ethylene glycol basis with inhibitors. Content: >20 % to 50 % (e.g. Antifrogen N)
 7) Conductivity at 25 °C: < 250 µS/cm, SiO₂ (silicate) content ≤ 10 mg/l
 8) Chloride content ≤ 300 mg/l; if the value is exceeded, water analysis is required.
 9) Mechanical seal suitable for t ≤ 110 °C
 10) SP = boiling point

Fluids handled	Application limits		Shaft seal Mechanical seal			
	Percentage [%]	Tempera- ture [°C]	Q1Q1M1GG	U3U3VGG	Q1Q1X4GG	BQ1EGG ⁴⁾
			Variant code			
			C5 ⁵⁾	C9	C10	C11
Fuel oil, light	-	-	-	-	X	-
Heating water ¹¹⁾	-	≤ 110	-	-	X	-
Hydraulic oil	-	-	-	-	X	-
Isopropanol	-	-	-	-	-	X
Potassium bicarbonate	≤ 10	≤ 80	-	-	-	X
Potassium hydroxide	≤ 10	≤ 80	-	-	X	-
Potassium carbonate	≤ 10	≤ 80	-	-	-	X
Potassium sulphate	≤ 3	≤ 20	-	-	-	X
Kerosene (jet fuel)	-	-	-	-	X	-
Boiler water	-	≤ 110	-	-	-	X
Condensate ⁷⁾	-	≤ 110	-	-	-	X
Cooling water (without antifreeze)	-	≤ 60 ⁹⁾	-	-	X	-
Cooling water pH ≥ 7.5 (with antifreeze) ⁶⁾	-	≤ 110	-	-	-	X
Copper sulphate	≤ 5	RT ¹²⁾	-	-	-	X
Slightly contaminated water ⁸⁾	-	≤ 60 ⁹⁾	-	-	X	-
Linseed oil	-	-	-	-	X	-
Magnesium sulphate	≤ 10	≤ 20	-	-	-	X
Corn oil	-	-	-	-	X	-
Methyl alcohol (methanol)	-	-	-	-	-	X
Mineral oil	-	-	-	-	X	-
Miscella	-	≤ 80	-	-	X	-
Sodium hydrogen carbonate	≤ 6	≤ 20	-	-	X	-
Sodium hydroxide (caustic soda)	≤ 20	≤ 60	-	-	X	-
Sodium hydroxide (caustic soda)	≤ 10	≤ 80	-	-	X	-
Sodium carbonate	≤ 6	≤ 60	-	-	-	X
Sodium nitrate	≤ 10	≤ 90	-	-	-	X
Sodium phosphate	≤ 10	≤ 100	-	-	X	-
Sodium sulphate	≤ 5	≤ 60	-	-	-	X
Caustic soda (sodium hydroxide)	≤ 20	≤ 60	-	-	X	-
Caustic soda (sodium hydroxide)	≤ 10	≤ 80	-	-	X	-
Oil and water emulsion	-	≤ 60	-	X	-	-
Kerosene	-	-	-	-	X	-
Vegetable oil, pure	-	-	-	-	X	-
Phosphoric acid	≤ 10	≤ 85	-	-	X	-
Polyglycols	-	≤ 90	-	-	-	X
Propanol (propyl alcohol)	-	-	-	-	-	X
Rapeseed oil	-	-	-	-	-	X
Pure water ¹³⁾	-	≤ 60 ⁹⁾	-	-	-	X
Pure water with 6 % soda	≤ 6	≤ 60	-	-	-	X
Raw water ⁸⁾	-	≤ 60 ⁹⁾	-	-	X	-
Ammonia solution (ammonia water)	≤ 10	≤ 60	-	-	-	X
Lubricating oil	-	-	-	-	X	-
Cutting oil	-	-	-	-	X	-
Sulphuric acid	≤ 5	RT ¹²⁾	-	-	-	X
Sulphuric acid	≤ 2.5	≤ 60	-	-	-	X
Sulphurous acid	≤ 10	RT ¹²⁾	-	-	-	X
Swimming pool water (fresh water)	-	≤ 60	-	-	X	-

4) Combinations of soft/hard contact face materials (BQ1) can only be used for fluids up to a total solids content of 50 mg/l. Higher solids contents will result in leakage and/or a shorter service life.

5) Shaft seal C5, dependent on the direction of rotation

11) Conductivity at 25 °C: 100 to 800 µS/cm

12) RT = room temperature

13) No ultra-pure water! Conductivity at 25 °C: ≤ 800 µS/cm

Fluids handled	Application limits		Shaft seal Mechanical seal			
	Percentage [%]	Tempera- ture [°C]	Q1Q1M1GG	U3U3VGG	Q1Q1X4GG	BQ1EGG ⁴⁾
			Variant code			
			C5 ⁵⁾	C9	C10	C11
Silicone oil	-	-	-	-	-	X
Soy-bean oil	-	-	-	-	X	-
Edible oil	-	-	-	-	X	-
Rinsing water ⁸⁾	-	≤ 60	-	-	X	-
Dam water ⁸⁾	-	≤ 60 ⁹⁾	-	-	X	-
Partly desalinated water	-	≤ 110	-	-	-	X
Trisodium phosphate	≤ 4	≤ 85	-	-	X	-
Drinking water ⁸⁾	-	≤ 60 ⁹⁾	-	-	-	X
Turbine oil (does not apply to SFD oils, hardly flammable)	-	≤ 80	-	-	X	-
Fully desalinated water ⁷⁾	-	≤ 110	-	-	-	X
Lye for bottle rinsers	-	≤ 90	-	-	X	-
Lye for metal cleaning pH ≤ 12	-	≤ 80	-	X	-	-
Detergents (containing surfactants)	-	-	-	-	-	X
Water/bathing water ⁸⁾	-	≤ 60	-	-	-	X
Soft water	-	≤ 60	-	-	-	X
Viscous fluids	20	≤ 100	X	-	-	-
Sugar juice (thin juice)	-	-	-	-	-	-
Citric acid	≤ 50	RT ¹²⁾	-	-	-	X

4) Combinations of soft/hard contact face materials (BQ1) can only be used for fluids up to a total solids content of 50 mg/l. Higher solids contents will result in leakage and/or a shorter service life.

5) Shaft seal C5, dependent on the direction of rotation

Technical data

Etachrom BC, $n = 2900 \text{ min}^{-1} / n = 3500 \text{ min}^{-1}$

Size	Motor	50 Hz	60 Hz	50 Hz [400 V] 60 Hz [460 V]
		[kW]	[kW]	[~A] ¹⁴⁾
25-125.1/072	80M	0,75	-	1,8
25-125.1/112	80M	1,10	1,27	2,6
25-125.1/152	90S	1,50	1,75	3,4
25-125.1/222	90L	2,20	2,55	4,6
25-125.1/302	100L	3,00	3,45	6,3
25-125.1/402	112M	4,00	4,55	8,3
25-125/072	80M	0,75	-	1,8
25-125/112	80M	1,10	-	2,6
25-125/152	90S	1,50	1,75	3,4
25-125/222	90L	2,20	2,55	4,6
25-125/302	100L	3,00	3,45	6,3
25-125/402	112M	4,00	4,55	8,3
25-160/152	90S	1,50	-	3,4
25-160/222	90L	2,20	2,55	4,6
25-160/302	100L	3,00	3,45	6,3
25-160/402	112M	4,00	4,55	8,3
25-160/552	132S	-	6,30	11,0
25-160/752	132S	-	8,60	14,6
25-200/302	100L	3,00	-	6,3
25-200/402	112M	4,00	4,55	8,3
25-200/552	132S	5,50	6,30	11,0
25-200/752	132S	7,50	8,60	14,6
25-200/1102	160M	-	12,60	20,7
25-200/1502	160M	-	17,30	28,0
25-250/552	132S	5,50	-	11,0
25-250/752	132S	7,50	-	14,6
25-250/1102	160M	11,00	-	20,7
25-250/1502	160M	15,00	-	28,0
32-125.1/072	80M	0,75	-	1,8
32-125.1/112	80M	1,10	-	2,6
32-125.1/152	90S	1,50	1,75	3,4
32-125.1/222	90L	-	2,55	4,6
32-125.1/302	100L	-	3,45	6,3
32-125/152	90S	1,50	-	3,4
32-125/222	90L	2,20	2,55	4,6
32-125/302	100L	3,00	3,45	6,3
32-125/402	112M	-	4,55	8,3
32-160/222	90L	2,20	-	4,6
32-160/302	100L	3,00	3,45	6,3
32-160/402	112M	4,00	4,55	8,3
32-160/552	132S	5,50	6,30	11,0
32-160/752	132S	-	8,60	14,6
32-160/1102	160M	-	12,60	20,7
32-200/302	100L	3,00	-	6,3
32-200/402	112M	4,00	-	8,3

Size	Motor	50 Hz	60 Hz	50 Hz [400 V] 60 Hz [460 V]
		[kW]	[kW]	[~A]
32-200/552	132S	5,50	6,30	11,0
32-200/752	132S	7,50	8,60	14,6
32-200/1102	160M	11,00	12,60	20,7
32-200/1502	160M	-	17,30	28,0
32-250/552	132S	5,50	-	11,0
32-250/752	132S	7,50	-	14,6
32-250/1102	160M	11,00	-	20,7
32-250/1502	160M	15,00	-	28,0
32-250/1852	160L	18,50	-	33,0
40-125/152	90S	1,50	-	3,4
40-125/222	90L	2,20	2,55	4,6
40-125/302	100L	3,00	3,45	6,3
40-125/402	112M	4,00	4,55	8,3
40-160/302	100L	3,00	-	6,3
40-160/402	112M	4,00	-	8,3
40-160/552	132S	5,50	6,30	11,0
40-160/752	132S	7,50	8,60	14,6
40-160/1102	160M	11,00	12,60	20,7
40-160/1502	160M	-	17,30	28,0
40-200/552	132S	5,50	-	11,0
40-200/752	132S	7,50	-	14,6
40-200/1102	160M	11,00	12,60	20,7
40-200/1502	160M	-	17,30	28,0
40-200/1852	160L	-	21,30	33,0
40-250/752	132S	7,50	-	14,6
40-250/1102	160M	11,00	-	20,7
40-250/1502	160M	15,00	-	28,0
40-250/1802	160L	18,50	-	33,0
40-250/2202	180M	22,00	-	40,0
40-250/3002	200L	30,00	-	53,0
50-125/302	100L	3,00	-	6,3
50-125/402	112M	4,00	-	8,3
50-125/552	132S	5,50	6,30	11,0
50-125/752	132S	7,50	8,60	14,6
50-125/1102	160M	-	12,60	12,6
50-125/1502	160M	-	17,30	17,3
50-160/552	132S	5,50	-	11,0
50-160/752	132S	7,50	-	14,6
50-160/1102	160M	11,00	12,60	20,7
50-160/1502	160M	15,00	17,30	28,0
50-160/1852	160L	-	21,30	33,0
50-200/552	132S	5,50	-	11,0
50-200/752	132S	7,50	-	14,6
50-200/1102	160M	11,00	12,60	20,7
50-200/1502	160M	15,00	17,30	28,0
50-200/1852	160L	18,50	21,30	33,0
50-200/2202	180M	22,00	24,50	40,0
50-200/3002	200L	-	33,50	53,0
50-200/3702	200L	-	41,50	65,0

¹⁴⁾ The currents indicated are for orientation only. For exact currents refer to the motor rating plate.

Size	Motor	50 Hz	60 Hz	50 Hz [400 V] 60 Hz [460 V]
		[kW]	[kW]	[~A] ¹⁴⁾
50-250/1502	160M	15,00	-	28,0
50-250/1852	160L	18,50	-	33,0
50-250/2202	180M	22,00	-	40,0
50-250/3002	200L	30,00	-	53,0
50-250/3702	200L	37,00	-	65,0
65-200/1102	160M	11,00	-	20,7
65-200/1502	160M	15,00	-	28,0
65-200/1852	160L	18,50	21,30	33,0
65-200/2202	180M	22,00	24,50	40,0
65-200/3002	200L	30,00	33,50	53,0
65-200/3702	200L	37,00	41,50	65,0
65-200/4502	225M	45,00	51,00	78,0
65-250/1502	160M	15,00	-	33,0
65-250/1852	160L	18,50	-	28,0
65-250/2202	180M	22,00	-	40,0
65-250/3002	200L	30,00	-	53,0
65-250/3702	200L	37,00	-	65,0
65-250/4502	225M	45,00	-	78,0
80-200/1502	160M	15,00	-	28,0
80-200/1852	160L	18,50	-	33,0
80-200/2202	180M	22,00	-	40,0
80-200/3002	200L	30,00	-	53,0
80-200/3702	200L	37,00	-	65,0
80-200/4502	225M	45,00	-	78,0

¹⁴⁾ The currents indicated are for orientation only. For exact currents refer to the motor rating plate.

Etachrom BC, n = 1450 min⁻¹ / n = 1750 min⁻¹

Size	Motor	50 Hz	60 Hz	50 Hz [400 V] 60 Hz [460 V]
		[kW]	[kW]	[~A] ¹⁵⁾
25-125.1/054	80M	0,55	0,63	1,6
25-125/054	80M	0,55	0,63	1,6
25-160/054	80M	0,55	0,63	1,6
25-160/074	80M	-	0,86	2,0
25-160/114	90S	-	1,27	2,8
25-200/054	80M	0,55	-	1,6
25-200/074	80M	0,75	0,86	2,0
25-200/114	90S	1,10	1,27	2,8
25-200/154	90L	-	1,75	3,6
25-200/224	100L	-	2,55	5,1
25-250/074	80M	0,75	-	2,0
25-250/114	90S	1,10	1,27	2,8
25-250/154	90L	1,50	1,75	3,6
25-250/224	100L	-	2,55	5,1
25-250/304	100L	-	3,45	6,7
32-125.1/054	80M	0,55	0,63	1,6
32-125.1/074	80M	-	0,86	2,0
32-125/054	80M	0,55	0,63	1,6
32-125/074	80M	-	0,86	2,0
32-160/054	80M	0,55	0,63	1,6
32-160/074	80M	0,75	0,86	2,0
32-160/114	90S	-	1,27	2,8
32-160/154	90L	-	1,75	3,6
32-200/054	80M	0,55	-	1,6
32-200/074	80M	0,75	-	2,0
32-200/114	90S	1,10	1,27	2,8
32-200/154	90L	-	1,75	3,6
32-200/224	100L	-	2,55	5,1
32-250/074	80M	0,75	-	2,0
32-250/114	90S	1,10	-	2,8
32-250/154	90L	1,50	1,75	3,6
32-250/224	100L	2,20	2,55	5,1
32-250/304	100L	3,00	3,45	6,7
32-250/404	112M	-	4,55	8,8
32-250/554	132S	-	6,30	11,5
40-125/054	80M	0,55	0,63	1,6
40-125/074	80M	-	0,86	2,0
40-125/114	90S	-	1,27	2,8
40-160/054	80M	0,55	-	1,6
40-160/074	80M	0,75	-	2,0
40-160/114	90S	1,10	1,27	2,8
40-160/154	90L	1,50	1,75	3,6
40-160/224	100L	2,20	2,55	5,1

Size	Motor	50 Hz	60 Hz	50 Hz [400 V] 60 Hz [460 V]
		[kW]	[kW]	[~A]
40-200/074	80M	0,75	-	2,0
40-200/114	90S	1,10	1,27	2,8
40-200/154	90L	1,50	1,75	3,6
40-200/224	100L	-	2,55	5,1
40-200/304	100L	-	3,45	6,7
40-250/114	90S	1,10	-	2,8
40-250/154	90L	1,50	1,75	3,6
40-250/224	100L	2,20	2,55	5,1
40-250/304	100L	3,00	3,45	6,7
40-250/404	112M	-	4,55	8,8
40-250/554	132S	-	6,30	11,5
50-125/054	80M	0,55	-	1,6
50-125/074	80M	0,75	0,86	2,0
50-125/114	90S	1,10	1,27	2,8
50-125/154	90L	-	1,75	3,6
50-125/224	110L	-	2,55	5,1
50-160/074	80M	0,75	-	2,0
50-160/114	90S	1,10	1,27	2,8
50-160/154	90L	1,50	1,75	3,6
50-160/224	100L	2,20	2,55	5,1
50-160/304	100L	-	3,45	6,7
50-200/074	80M	0,75	-	2,0
50-200/114	90S	1,10	-	2,8
50-200/154	90L	1,50	1,75	3,6
50-200/224	100L	2,20	2,55	5,1
50-200/304	100L	3,00	3,45	6,7
50-200/404	112M	4,00	4,55	8,8
50-200/554	132S	-	6,30	11,5
50-250/154	90L	1,50	-	3,6
50-250/224	100L	2,20	2,55	5,1
50-250/304	100L	3,00	3,45	6,7
50-250/404	112M	4,00	4,55	8,8
50-250/554	132S	-	6,30	11,5
50-250/754	132M	-	8,60	15,5
50-250/1104	160M	-	12,60	21,0
65-200/154	90L	1,50	-	3,6
65-200/224	100L	2,20	2,55	5,1
65-200/304	100L	3,00	3,45	6,7
65-200/404	112M	4,00	4,55	11,5
65-200/554	132S	-	6,30	15,5
65-200/754	132M	-	8,60	8,8
65-250/224	100L	2,20	-	5,1
65-250/304	100L	3,00	-	6,7
65-250/404	112M	4,00	4,55	8,8
65-250/554	132S	5,50	6,30	11,5
65-250/754	132M	7,50	8,60	15,5
65-250/1104	160M	-	12,60	21,0
80-200/224	100L	2,20	-	5,1
80-200/304	100L	3,00	3,45	6,7
80-200/404	112M	4,00	4,55	8,8

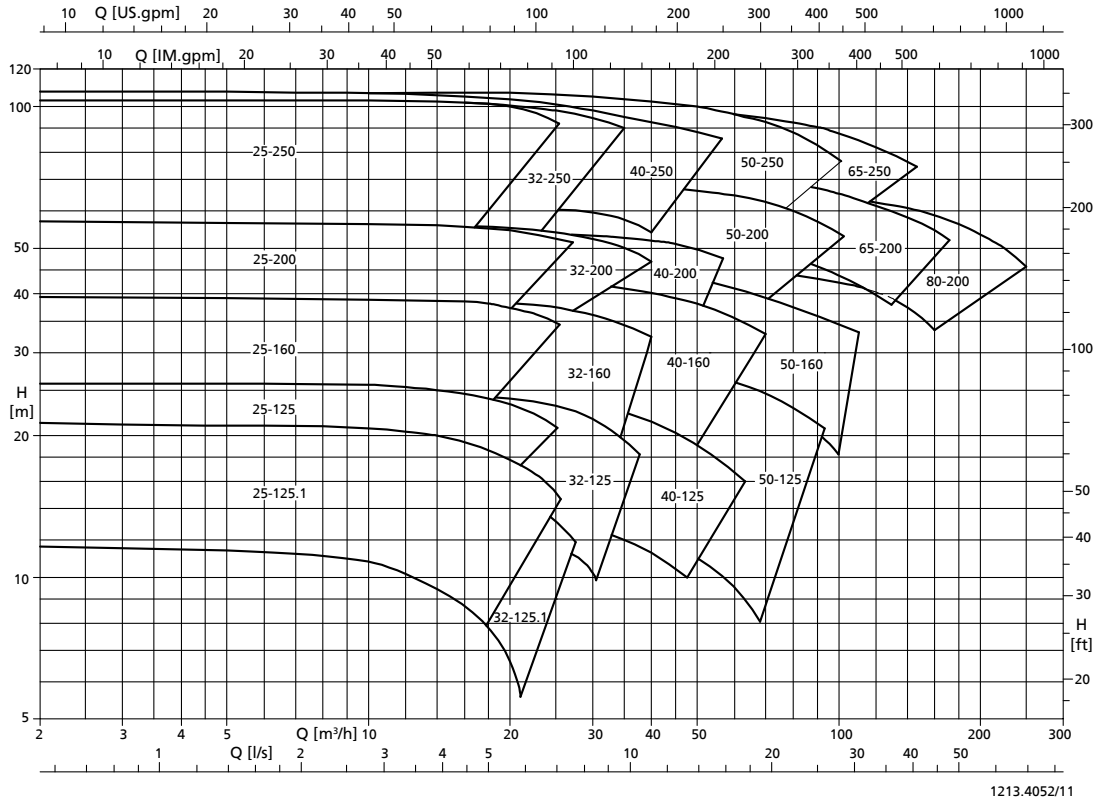
¹⁵⁾ The currents indicated are for orientation only. For exact currents refer to the motor rating plate.

Size	Motor	50 Hz	60 Hz	50 Hz [400 V] 60 Hz [460 V]
		[kW]	[kW]	[~A] ¹⁵⁾
80-200/554	132S	5,50	6,30	11,5
80-200/754	132M	7,50	8,60	15,5
80-200/1104	160M	-	12,60	21,0
80-250/304	100L	3,00	-	6,7
80-250/404	112M	4,00	-	8,8
80-250/554	132S	5,50	6,30	11,5
80-250/754	132M	7,50	8,60	15,5
80-250/1104	160M	11,00	12,60	21,0
80-250/1504	160L	15,00	17,30	28,5
80-250/1854	180M	-	21,30	35,0

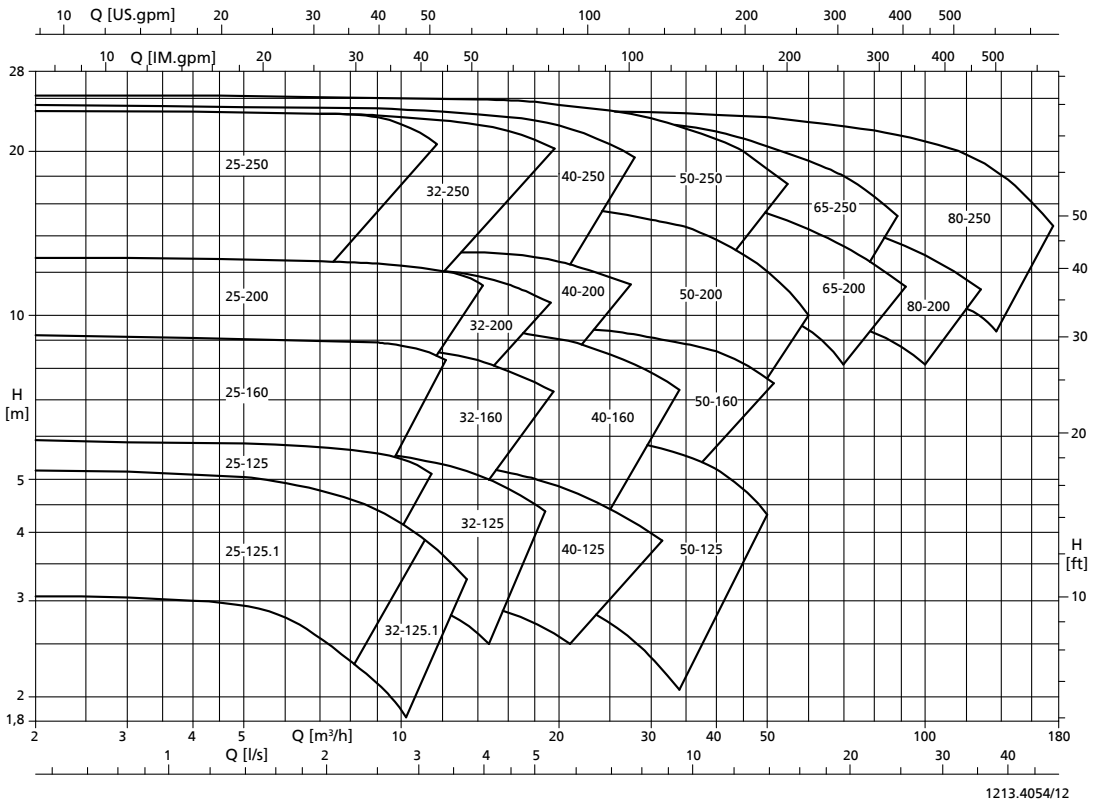
¹⁵⁾ The currents indicated are for orientation only. For exact currents refer to the motor rating plate.

Selection charts

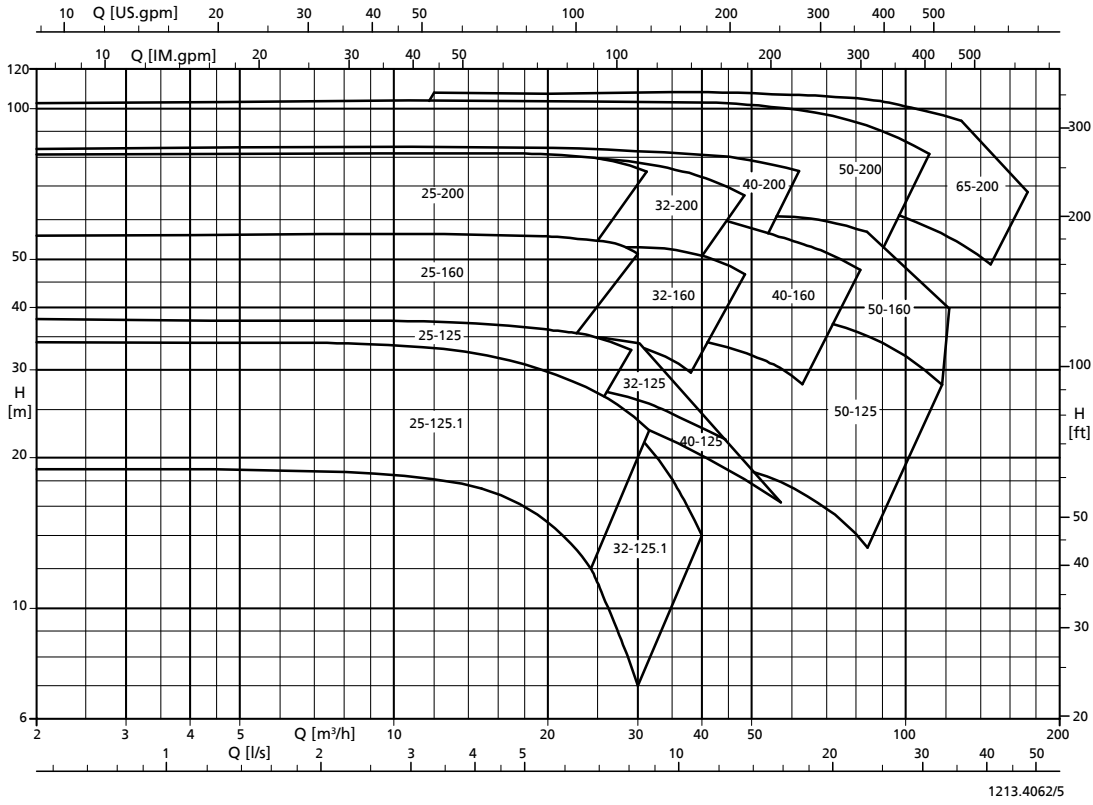
Etachrom BC, $n = 2900 \text{ min}^{-1}$



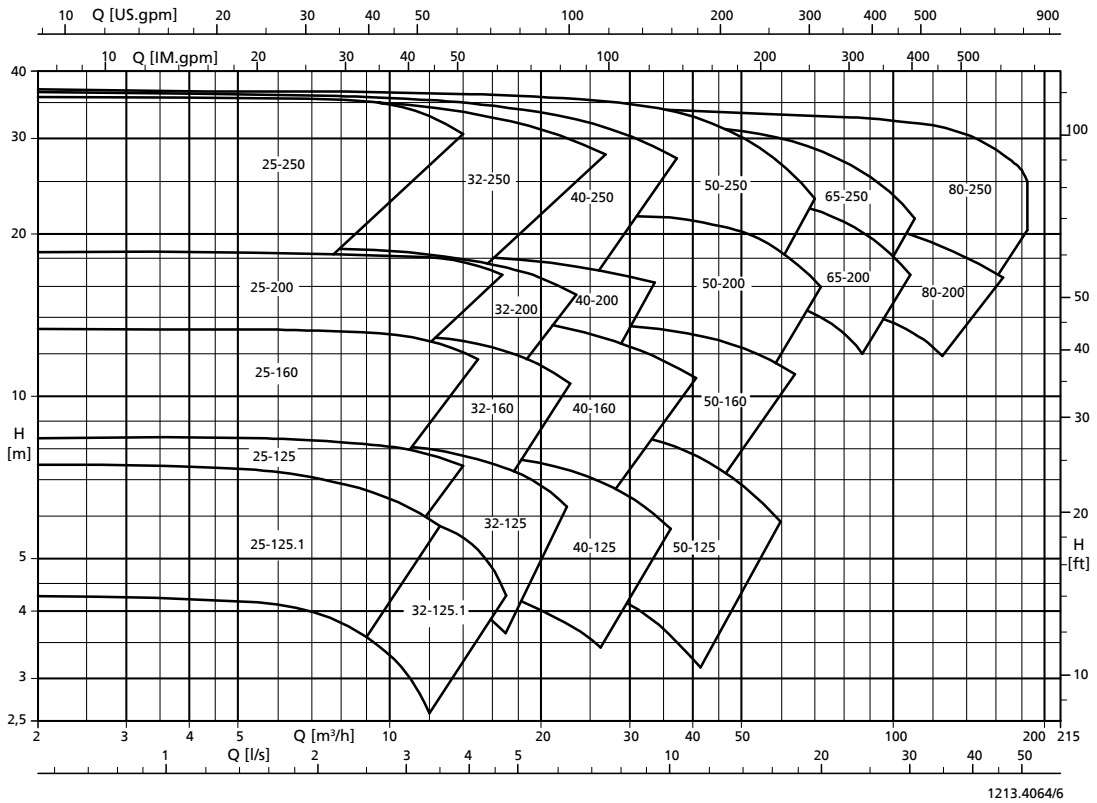
Etachrom BC, $n = 1450 \text{ min}^{-1}$



Etachrom BC, $n = 3500 \text{ min}^{-1}$

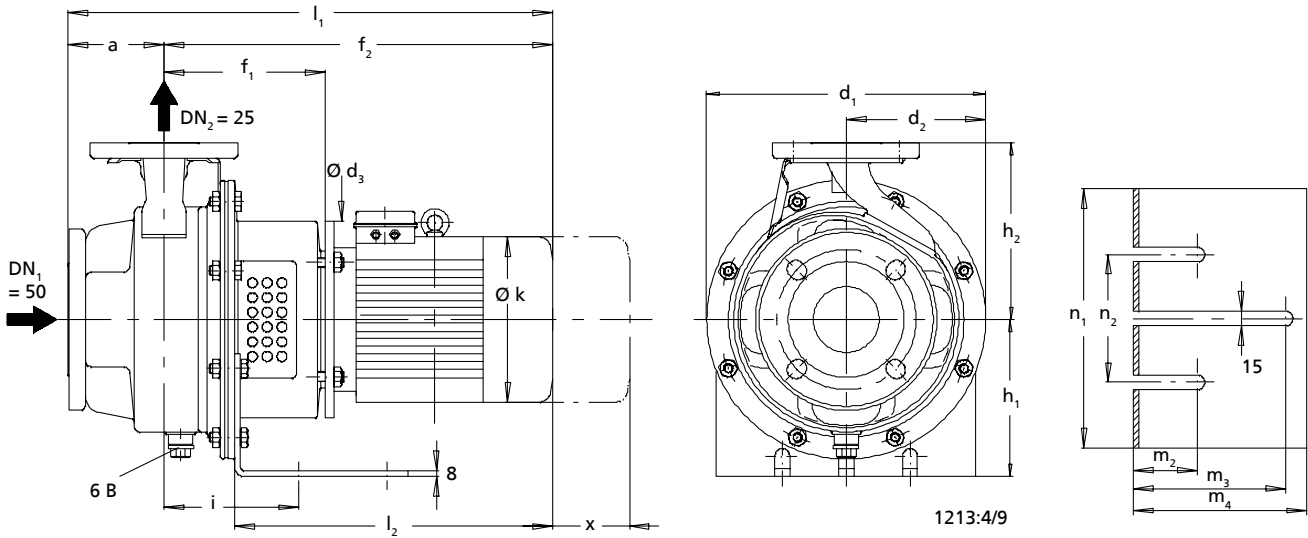


Etachrom BC, $n = 1750 \text{ min}^{-1}$



Dimensions

Etachrom BC 25, up to motor 112 (4.00 kW), with pump foot



Etachrom BC with pump foot

6 B	Fluid drain	G ^{3/8} G = ISO 228/1
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DN = EN 1092-2/DN.../PN 16/B

Dimensions

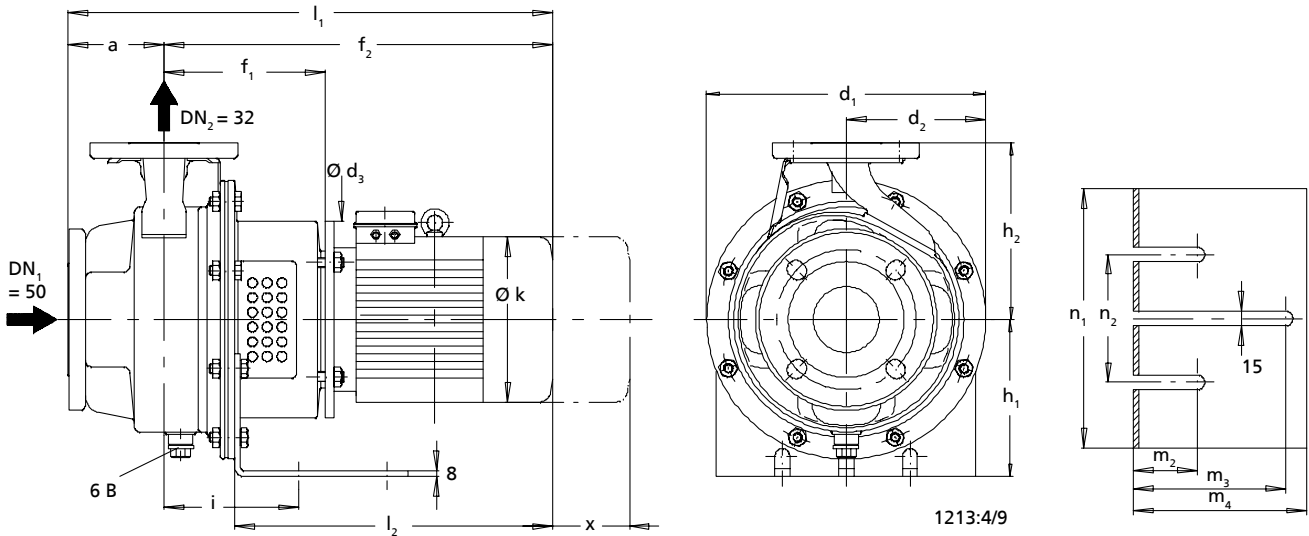
Size	1450 min ⁻¹	1750 min ⁻¹	2900 min ⁻¹	3500 min ⁻¹	a	d ₁	d ₂	d ₃	f ₁	f ₂	h ₁	h ₂	i	k	l ₁	l ₂	m ₂	m ₃	m ₄	n ₁	n ₂	x
	[kW]																					
25-125.1	0,55	0,63	-	-	80	220	110	200	158	413	160	140	115	162	493	343	65	155	176	225	130	115
25-125.1	-	-	0,75	-	80	220	110	200	158	413	160	140	115	162	493	344	65	155	176	225	130	115
25-125.1	-	-	1,10	1,27	80	220	110	200	158	427	160	140	115	162	507	344	65	155	176	225	130	115
25-125.1	-	-	1,50	1,75	80	220	110	200	158	440	160	140	115	181	520	373	65	155	176	225	130	115
25-125.1	-	-	2,20	2,55	80	220	110	200	158	466	160	140	115	181	546	380	65	155	176	225	130	115
25-125.1	-	-	3,00	3,45	80	220	110	250	168	515	160	140	115	201	595	421	65	155	176	225	130	115
25-125.1	-	-	4,00	4,55	80	220	110	250	168	539	160	140	115	225	619	442	65	155	176	225	130	115
25-125	0,55	0,63	-	-	80	220	110	200	158	413	160	140	115	162	493	343	65	155	176	225	130	115
25-125	-	-	0,75	-	80	220	110	200	158	413	160	140	115	162	493	344	65	155	176	225	130	115
25-125	-	-	1,10	-	80	220	110	200	158	427	160	140	115	162	507	344	65	155	176	225	130	115
25-125	-	-	1,50	1,75	80	220	110	200	158	440	160	140	115	181	520	373	65	155	176	225	130	115
25-125	-	-	2,20	2,55	80	220	110	200	158	466	160	140	115	181	546	380	65	155	176	225	130	115
25-125	-	-	3,00	3,45	80	220	110	250	168	515	160	140	115	201	595	421	65	155	176	225	130	115
25-125	-	-	4,00	4,55	80	220	110	250	168	539	160	140	115	225	619	442	65	155	176	225	130	115
25-160	0,55	0,63	-	-	80	254	127	200	158	413	160	160	115	162	493	343	65	155	176	236	130	115
25-160	-	0,86	-	-	80	254	127	200	158	413	160	160	115	162	493	343	65	155	176	236	130	115
25-160	-	1,27	-	-	80	254	127	200	158	440	160	160	115	181	520	377	65	155	176	236	130	115
25-160	-	-	1,50	-	80	255	127	200	168	450	160	160	115	181	530	370	65	155	176	236	130	115
25-160	-	-	2,20	2,55	80	255	127	200	168	576	160	160	115	181	556	377	65	155	176	236	130	115
25-160	-	-	3,00	3,45	80	255	127	250	168	515	160	160	115	201	595	421	65	155	176	236	130	115
25-160	-	-	4,00	4,55	80	255	127	250	168	539	160	160	115	225	619	438	65	155	176	236	130	115

16) Tolerances of mating dimensions to DIN EN 735

Size	1450 min ⁻¹	1750 min ⁻¹	2900 min ⁻¹	3500 min ⁻¹	a	d ₁	d ₂	d ₃	f ₁	f ₂ ~	h ₁	h ₂	i	k ~	l ₁ ~	l ₂ ~	m ₂	m ₃	m ₄	n ₁	n ₂	x
	[kW]				[mm] ¹⁶⁾																	
25-200	0,55	-	-	-	80	284	142	200	158	413	160	180	115	162	493	343	65	155	176	264	130	115
25-200	0,75	0,86	-	-	80	284	142	200	158	413	160	180	115	162	493	343	65	155	176	264	130	115
25-200	1,10	1,27	-	-	80	284	142	200	158	440	160	180	115	181	520	377	65	155	176	264	130	115
25-200	-	1,75	-	-	80	284	142	200	158	466	160	180	115	181	546	377	65	155	176	264	130	115
25-200	-	2,55	-	-	80	284	142	250	168	515	160	180	115	201	595	421	65	155	176	264	130	115
25-200	-	-	3,00	-	80	285	142	250	168	515	160	180	115	201	595	421	65	155	176	264	130	115
25-200	-	-	4,00	4,55	80	285	142	250	168	539	160	180	115	225	619	438	65	155	176	264	130	115
25-250	0,75	-	-	-	100	348	174	200	156	411	180	225	118	162	511	323	30	110	140	225	130	130
25-250	1,10	1,27	-	-	100	348	174	200	156	438	180	225	118	181	538	357	30	110	140	225	130	130
25-250	1,50	1,75	-	-	100	348	174	200	156	464	180	225	118	181	564	357	30	110	140	225	130	130
25-250	-	2,55	-	-	100	348	174	250	170	517	180	225	118	201	617	405	30	110	140	225	130	130
25-250	-	3,45	-	-	100	348	174	250	170	552	180	225	118	201	652	405	30	110	140	225	130	130

¹⁶⁾ Tolerances of mating dimensions to DIN EN 735

Etachrom BC 32, up to motor 112 (4.00 kW), with pump foot



Etachrom BC with pump foot

6 B	Fluid drain	G ^{3/8} G = ISO 228/1
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DN = EN 1092-2/DN.../PN 16/B

Dimensions

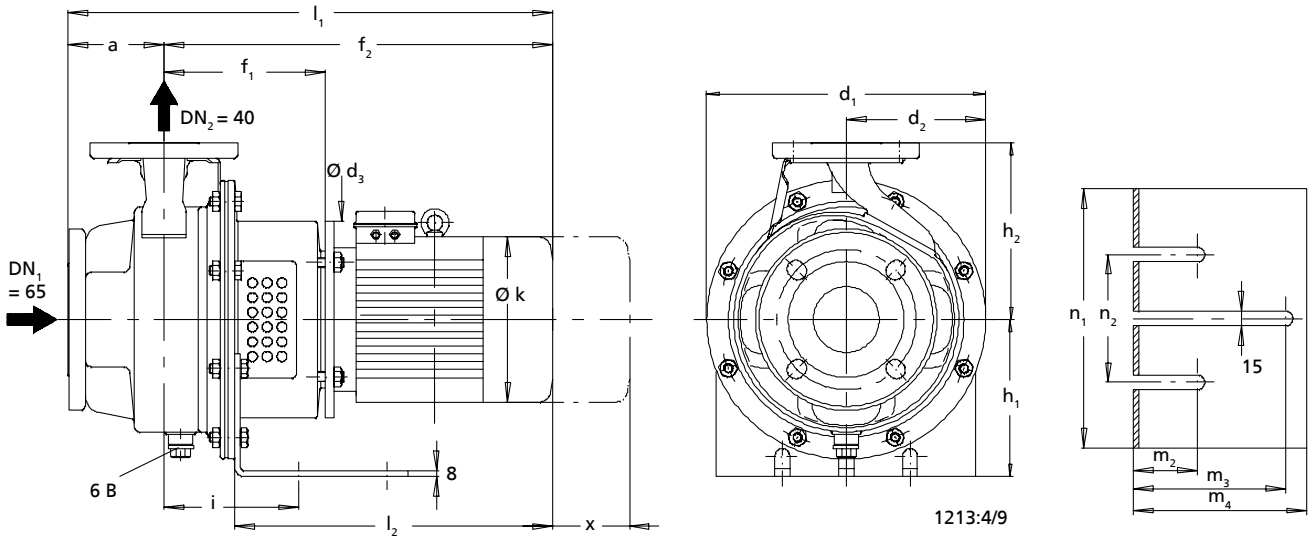
Size	1450 min ⁻¹	1750 min ⁻¹	2900 min ⁻¹	3500 min ⁻¹	a	d ₁	d ₂	d ₃	f ₁	f ₂	h ₁	h ₂	i	k	l ₁	l ₂	m ₂	m ₃	m ₄	n ₁	n ₂	x
	[kW]				[mm] ¹⁷⁾																	
32-125.1	0,55	0,63	-	-	80	220	110	200	158	413	160	140	115	162	493	343	65	155	176	225	130	115
32-125.1	-	0,86	-	-	80	220	110	200	158	413	160	140	115	162	493	343	65	155	176	225	130	115
32-125.1	-	-	0,75	-	80	220	110	200	158	413	160	140	115	162	493	344	65	155	176	225	130	115
32-125.1	-	-	1,10	-	80	220	110	200	158	427	160	140	115	162	507	344	65	155	176	225	130	115
32-125.1	-	-	1,50	1,75	80	220	110	200	158	440	160	140	115	181	520	373	65	155	176	225	130	115
32-125.1	-	-	-	2,55	80	220	110	200	158	466	160	140	115	181	546	380	65	155	176	225	130	115
32-125.1	-	-	-	3,45	80	220	110	250	168	515	160	140	115	201	595	421	65	155	176	225	130	115
32-125	0,55	0,63	-	-	80	220	110	200	158	413	160	140	115	162	493	343	65	155	176	225	130	115
32-125	-	0,86	-	-	80	220	110	200	158	413	160	140	115	162	493	343	65	155	176	225	130	115
32-125	-	-	1,50	-	80	220	110	200	158	440	160	140	115	181	520	373	65	155	176	225	130	115
32-125	-	-	2,20	2,55	80	220	110	200	158	466	160	140	115	181	546	380	65	155	176	225	130	115
32-125	-	-	3,00	3,45	80	220	110	250	168	515	160	140	115	201	595	421	65	155	176	225	130	115
32-125	-	-	-	4,55	80	220	110	250	168	539	160	140	115	225	619	442	65	155	176	225	130	115
32-160	0,55	-	-	-	80	255	127	200	158	413	160	160	115	162	493	343	65	155	176	236	130	115
32-160	0,75	0,86	-	-	80	255	127	200	158	413	160	160	115	162	493	343	65	155	176	236	130	115
32-160	-	1,27	-	-	80	255	127	200	158	440	160	160	115	181	520	377	65	155	176	236	130	115
32-160	-	1,75	-	-	80	255	127	200	158	466	160	160	115	181	546	377	65	155	176	236	130	115
32-160	-	-	2,20	-	80	255	127	200	168	476	160	160	115	181	556	377	65	155	176	236	130	115
32-160	-	-	3,00	3,45	80	255	127	250	168	515	160	160	115	201	595	421	65	155	176	236	130	115
32-160	-	-	4,00	4,55	80	255	127	250	168	539	160	160	115	225	619	438	65	155	176	236	130	115
32-200	0,55	-	-	-	80	285	142	200	158	413	160	180	115	162	493	343	65	155	176	264	130	115
32-200	0,75	-	-	-	80	285	142	200	158	413	160	180	115	162	493	343	65	155	176	264	130	115

17) Tolerances of mating dimensions to DIN EN 735

Size	1450 min ⁻¹	1750 min ⁻¹	2900 min ⁻¹	3500 min ⁻¹	a	d ₁	d ₂	d ₃	f ₁	f ₂	h ₁	h ₂	i	k	l ₁	l ₂	m ₂	m ₃	m ₄	n ₁	n ₂	x
	[kW]				[mm] ¹⁷⁾																	
32-200	1,10	1,27	-	-	80	285	142	200	158	440	160	180	115	181	520	377	65	155	176	264	130	115
32-200	-	1,75	-	-	80	285	142	200	158	466	160	180	115	181	546	377	65	155	176	264	130	115
32-200	-	2,55	-	-	80	285	142	250	168	515	160	180	115	201	595	421	65	155	176	264	130	115
32-200	-	-	3,00	-	80	285	142	250	168	515	160	180	115	201	595	421	65	155	176	264	130	115
32-200	-	-	4,00	-	80	285	142	250	168	539	160	180	115	225	619	438	65	155	176	264	130	115
32-250	0,75	-	-	-	100	348	174	200	156	411	180	225	118	162	511	323	30	110	140	225	130	130
32-250	1,10	-	-	-	100	348	174	200	156	438	180	225	118	181	538	357	30	110	140	225	130	130
32-250	1,50	1,75	-	-	100	348	174	200	156	464	180	225	118	181	564	357	30	110	140	225	130	130
32-250	2,20	2,55	-	-	100	348	174	250	170	517	180	225	118	201	617	405	30	110	140	225	130	130
32-250	3,00	3,45	-	-	100	348	174	250	170	552	180	225	118	201	652	405	30	110	140	225	130	130
32-250	-	4,55	-	-	100	348	174	250	170	541	180	225	118	225	641	422	30	110	140	225	130	130

¹⁷⁾ Tolerances of mating dimensions to DIN EN 735

Etachrom BC 40, up to motor 112 (4.00 kW), with pump foot



Etachrom BC with pump foot

6 B	Fluid drain	G ^{3/8} G = ISO 228/1
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DN = EN 1092-2/DN.../PN 16/B

Dimensions

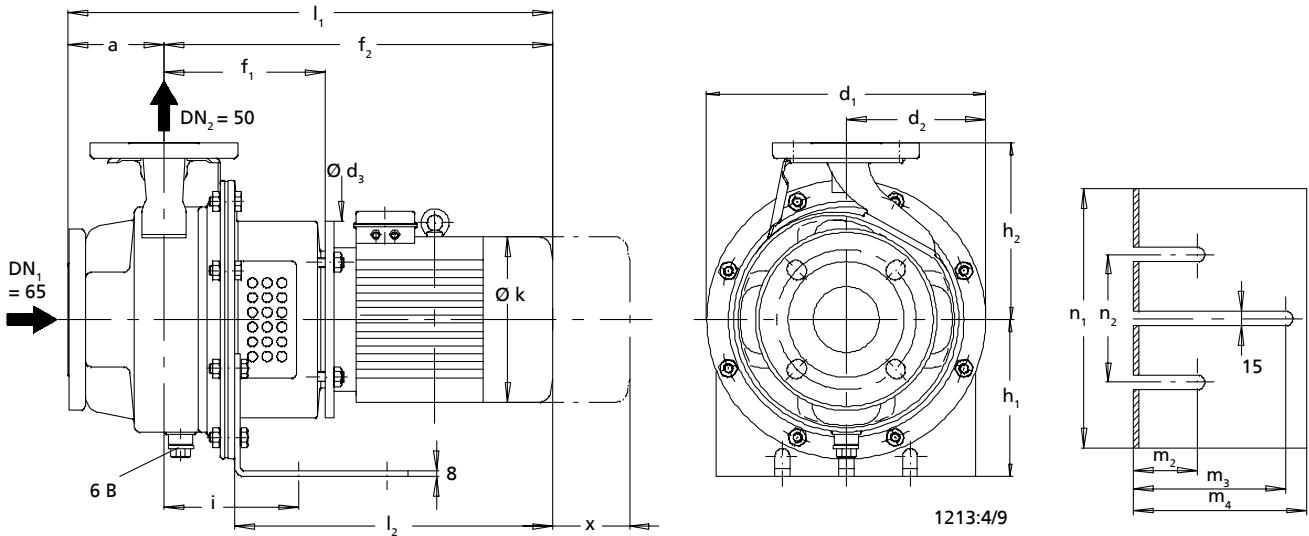
Size	1450 min ⁻¹	1750 min ⁻¹	2900 min ⁻¹	3500 min ⁻¹	a	d ₁	d ₂	d ₃	f ₁	f ₂	h ₁	h ₂	i	k	l ₁	l ₂	m ₂	m ₃	m ₄	n ₁	n ₂	x
	[kW]				[mm] ¹⁸⁾																	
40-125	0,55	0,63	-	-	80	220	110	200	158	413	160	140	117	162	493	343	65	155	176	225	130	115
40-125	-	0,86	-	-	80	220	110	200	158	413	160	140	117	162	493	343	65	155	176	225	130	115
40-125	-	1,27	-	-	80	220	110	200	158	440	160	140	117	181	520	377	65	155	176	225	130	115
40-125	-	-	1,50	-	80	220	110	200	160	442	160	140	117	181	522	377	65	155	176	225	130	115
40-125	-	-	2,20	2,55	80	220	110	200	160	468	160	140	117	181	548	377	65	155	176	225	130	115
40-125	-	-	3,00	3,45	80	220	110	250	170	517	160	140	117	201	597	421	65	155	176	225	130	115
40-125	-	-	4,00	4,55	80	220	110	250	170	541	160	140	117	225	621	438	65	155	176	225	130	115
40-160	0,55	-	-	-	80	255	127	200	158	413	160	160	117	162	493	343	65	155	176	236	130	115
40-160	0,75	-	-	-	80	255	127	200	158	413	160	160	117	162	493	343	65	155	176	236	130	115
40-160	1,10	1,27	-	-	80	255	127	200	158	440	160	160	117	181	520	377	65	155	176	236	130	115
40-160	1,50	1,75	-	-	80	255	127	200	158	466	160	160	117	181	546	377	65	155	176	236	130	115
40-160	-	2,55	-	-	80	255	127	250	168	515	160	160	117	201	595	421	65	155	176	236	130	115
40-160	-	-	3,00	-	80	254	127	250	170	517	160	160	117	201	597	421	65	155	176	236	130	115
40-160	-	-	4,00	-	80	254	127	250	170	541	160	160	117	225	621	438	65	155	176	236	130	115
40-200	0,75	-	-	-	100	285	142	200	158	413	160	180	117	162	513	343	65	155	176	264	130	115
40-200	1,10	1,27	-	-	100	285	142	200	158	440	160	180	117	181	540	377	65	155	176	264	130	115
40-200	1,50	1,75	-	-	100	285	142	200	158	466	160	180	117	181	566	377	65	155	176	264	130	115
40-200	-	2,55	-	-	100	285	142	250	168	515	160	180	117	201	615	421	65	155	176	264	130	115
40-200	-	3,45	-	-	100	285	142	250	168	550	160	180	117	201	650	421	65	155	176	264	130	115
40-250	1,10	-	-	-	100	348	174	200	156	438	180	225	118	181	538	357	30	110	140	225	130	130
40-250	1,50	1,75	-	-	100	348	174	200	156	464	180	225	118	181	564	357	30	110	140	225	130	130
40-250	2,20	2,55	-	-	100	348	174	250	170	517	180	225	118	201	617	405	30	110	140	225	130	130

¹⁸⁾ Tolerances of mating dimensions to DIN EN 735

Size	1450 min ⁻¹	1750 min ⁻¹	2900 min ⁻¹	3500 min ⁻¹	a	d ₁	d ₂	d ₃	f ₁	f ₂ ~	h ₁	h ₂	i	k ~	l ₁ ~	l ₂ ~	m ₂	m ₃	m ₄	n ₁	n ₂	x
	[kW]				[mm] ¹⁸⁾																	
40-250	3,00	3,45	-	-	100	348	174	250	170	552	180	225	118	201	652	405	30	110	140	225	130	130
40-250	-	4,55	-	-	100	348	174	250	170	541	180	225	118	225	641	422	30	110	140	225	130	130

¹⁸⁾ Tolerances of mating dimensions to DIN EN 735

Etachrom BC 50, up to motor 112 (4.00 kW), with pump foot



Etachrom BC with pump foot

6 B	Fluid drain	G ^{3/8} G = ISO 228/1
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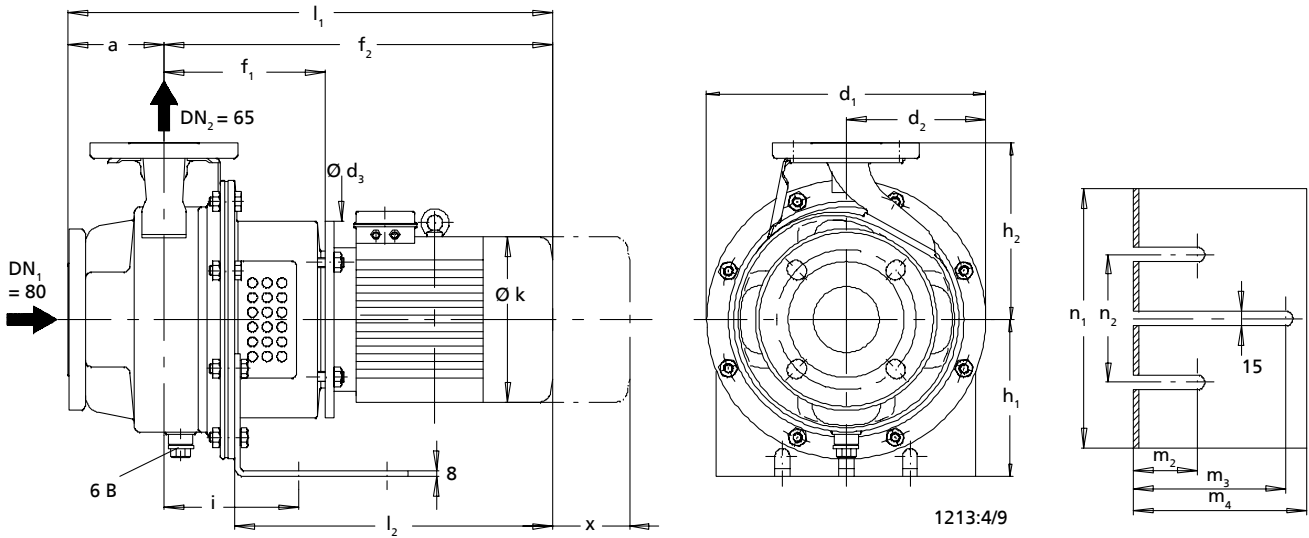
DN = EN 1092-2/DN.../PN 16/B

Dimensions

Size	1450 min ⁻¹	1750 min ⁻¹	2900 min ⁻¹	3500 min ⁻¹	a	d ₁	d ₂	d ₃	f ₁	f ₂	h ₁	h ₂	i	k	l ₁	l ₂	m ₂	m ₃	m ₄	n ₁	n ₂	x
	[kW]				[mm] ¹⁹⁾																	
50-125	0,55	-	-	-	100	255	127	200	158	413	160	160	117	162	513	343	65	155	176	236	130	130
50-125	0,75	0,86	-	-	100	255	127	200	158	413	160	160	117	162	513	343	65	155	176	236	130	130
50-125	1,10	1,27	-	-	100	255	127	200	158	440	160	160	117	181	540	377	65	155	176	236	130	130
50-125	-	1,75	-	-	100	255	127	200	158	466	160	160	117	181	566	377	65	155	176	236	130	130
50-125	-	2,55	-	-	100	255	127	250	168	515	160	160	117	201	615	421	65	155	176	236	130	130
50-125	-	-	3,00	-	100	254	127	250	170	517	160	160	117	201	617	421	65	155	176	236	130	130
50-125	-	-	4,00	-	100	254	127	250	170	541	160	160	117	225	641	438	65	155	176	236	130	130
50-160	0,75	-	-	-	100	255	127	200	158	413	160	180	117	162	513	343	65	155	176	236	130	130
50-160	1,10	1,27	-	-	100	255	127	200	158	440	160	180	117	181	540	377	65	155	176	236	130	130
50-160	1,50	1,75	-	-	100	255	127	200	158	466	160	180	117	181	566	377	65	155	176	236	130	130
50-160	2,20	2,55	-	-	100	255	127	250	168	515	160	180	117	201	615	421	65	155	176	236	130	130
50-160	-	3,45	-	-	100	255	127	250	168	550	160	180	117	201	650	421	65	155	176	236	130	130
50-200	0,75	-	-	-	100	313	156	200	156	411	180	200	118	162	511	323	30	110	140	225	130	130
50-200	1,10	-	-	-	100	313	156	200	156	438	180	200	118	181	538	350	30	110	140	225	130	130
50-200	1,50	1,75	-	-	100	313	156	200	156	464	180	200	118	181	564	357	30	110	140	225	130	130
50-200	2,20	2,55	-	-	100	313	156	250	170	517	180	200	118	201	617	405	30	110	140	225	130	130
50-200	3,00	3,45	-	-	100	313	156	250	170	552	180	200	118	201	652	405	30	110	140	225	130	130
50-200	4,00	4,55	-	-	100	313	156	250	170	541	180	200	118	225	641	422	30	110	140	225	130	130
50-250	1,50	-	-	-	100	348	174	200	156	464	180	225	118	181	564	357	30	110	140	225	130	130
50-250	2,20	2,55	-	-	100	348	174	250	170	517	180	225	118	201	617	405	30	110	140	225	130	130
50-250	3,00	3,45	-	-	100	348	174	250	170	552	180	225	118	201	652	405	30	110	140	225	130	130
50-250	4,00	4,55	-	-	100	348	174	250	170	541	180	225	118	225	641	482	30	110	140	225	130	130

19) Tolerances of mating dimensions to DIN EN 735

Etachrom BC 65, up to motor 112 (4.00 kW), with pump foot



Etachrom BC with pump foot

6 B	Fluid drain	G 3/8G = ISO 228/1
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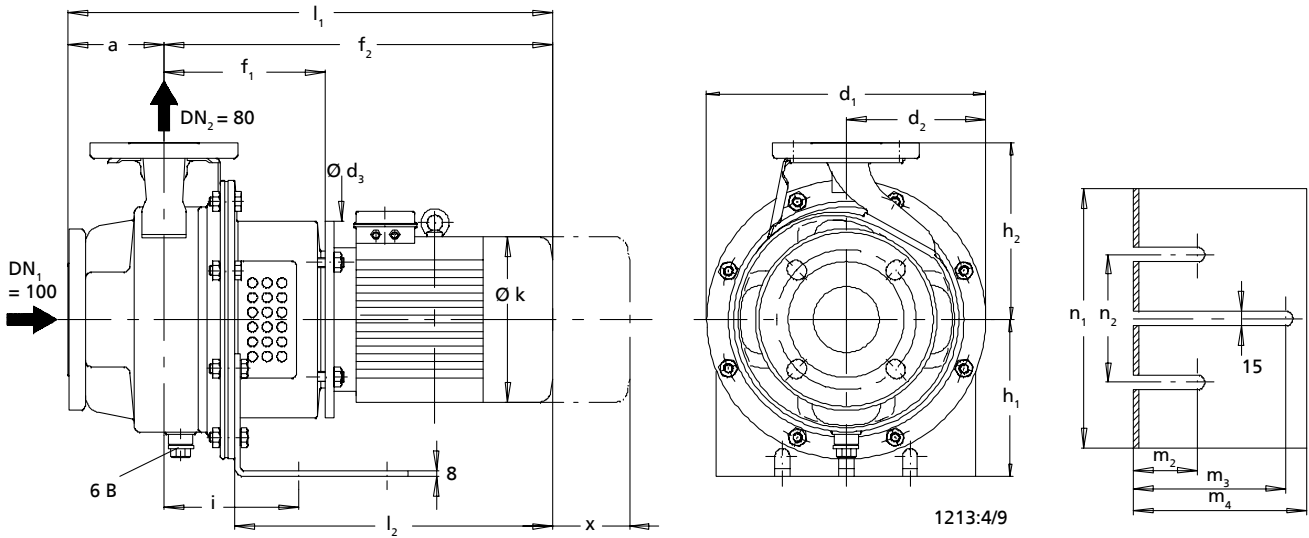
DN = EN 1092-2/DN.../PN 16/B

Dimensions

Size	1450 min ⁻¹	1750 min ⁻¹	2900 min ⁻¹	3500 min ⁻¹	a	d ₁	d ₂	d ₃	f ₁	f ₂	h ₁	h ₂	i	k	l ₁	l ₂	m ₂	m ₃	m ₄	n ₁	n ₂	x
	[kW]				[mm] ²⁰⁾																	
65-200	1,50	-	-	-	100	348	174	200	156	464	180	225	118	181	564	357	30	110	140	225	130	130
65-200	2,20	2,55	-	-	100	348	174	250	170	517	180	225	118	201	617	405	30	110	140	225	130	130
65-200	3,00	3,45	-	-	100	348	174	250	170	552	180	225	118	201	652	405	30	110	140	225	130	130
65-200	4,00	4,55	-	-	100	348	174	250	170	541	180	225	118	225	641	422	30	110	140	225	130	130
65-250	2,20	-	-	-	100	348	174	250	190	537	180	250	142	201	637	401	30	120	160	260	180	140
65-250	3,00	-	-	-	100	348	174	250	190	572	180	250	142	201	672	401	30	120	160	260	180	140
65-250	4,00	4,55	-	-	100	348	174	250	190	561	180	250	142	225	661	418	30	120	160	260	180	140

20) Tolerances of mating dimensions to DIN EN 735

Etachrom BC 80, up to motor 112 (4.00 kW), with pump foot



Etachrom BC with pump foot

6 B	Fluid drain	G 3/8G = ISO 228/1
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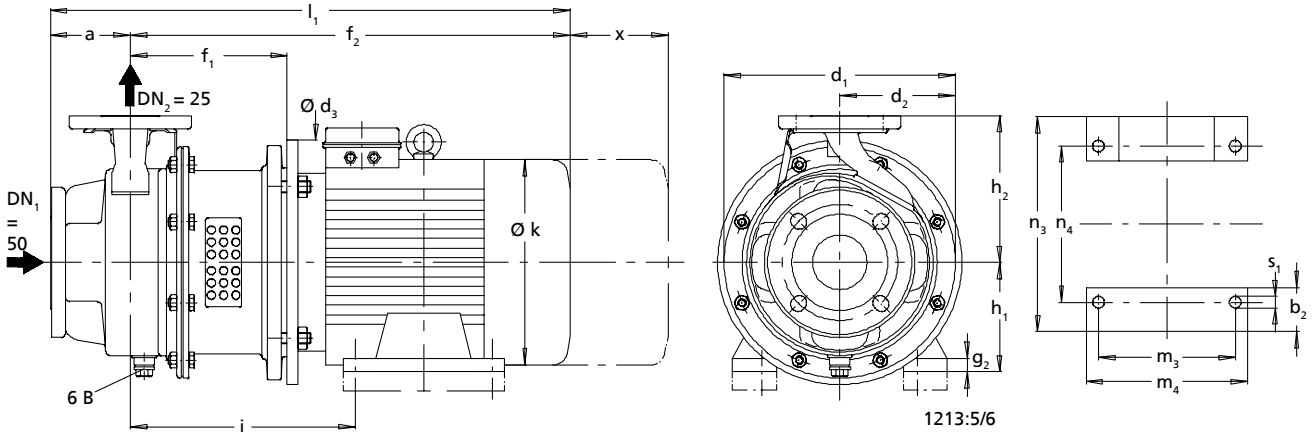
DN = EN 1092-2/DN.../PN 16/B

Dimensions

Size	1450 min ⁻¹	1750 min ⁻¹	2900 min ⁻¹	3500 min ⁻¹	a	d ₁	d ₂	d ₃	f ₁	f ₂	h ₁	h ₂	i	k	l ₁	l ₂	m ₂	m ₃	m ₄	n ₁	n ₂	x
	[kW]				[mm] ²¹⁾																	
80-200	2,20	-	-	-	125	348	174	250	190	537	180	250	142	201	662	401	30	120	160	260	180	150
80-200	3,00	3,45	-	-	125	348	174	250	190	572	180	250	142	201	697	401	30	120	160	260	180	150
80-200	4,00	4,55	-	-	125	348	174	250	190	561	180	250	142	225	686	418	30	120	160	260	180	150
80-250	3,00	-	-	-	125	348	174	250	190	572	180	280	142	201	697	401	30	120	160	260	180	150
80-250	4,00	-	-	-	125	348	174	250	190	561	180	280	142	225	686	418	30	120	160	260	180	150

21) Tolerances of mating dimensions to DIN EN 735

Etachrom BC 25, from motor 132 (5.50 kW), with motor foot



Etachrom BC with motor foot

6 B	Fluid drain	G 3/8G = ISO 228/1
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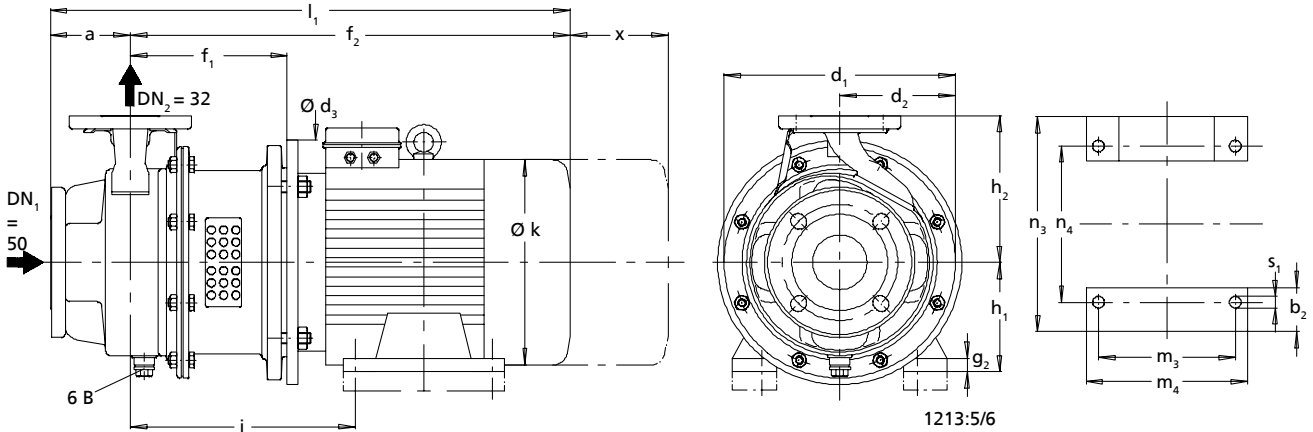
DN = EN 1092-2/DN.../PN 16/B

Dimensions

Size	1450 min ⁻¹	1750 min ⁻¹	2900 min ⁻¹	3500 min ⁻¹	a	b ₂	d ₁	d ₂	d ₃	f ₁	f ₂	g ₂	h ₁	h ₂	i	k	l ₁	m ₃	m ₄	n ₃	n ₄	s ₁	x
	[kW]				[mm] ²²⁾																		
25-160 ²³⁾	-	-	-	6,30	80	53	255	127	300	188	601	15	132	160	277	266	681	140	180	256	216	12	115
25-160 ²³⁾	-	-	-	8,60	80	53	255	127	300	188	601	15	132	160	277	266	681	140	180	256	216	12	115
25-200 ²³⁾	-	-	5,50	6,30	80	53	285	142	300	188	601	15	132	180	277	266	681	140	180	256	216	12	115
25-200 ²³⁾	-	-	7,50	8,60	80	53	285	142	300	193	606	15	132	180	277	266	686	140	180	256	216	12	115
25-200 ²³⁾	-	-	-	12,60	80	60	285	142	350	218	764	18	160	180	326	308	844	210	256	300	254	15	115
25-200 ²³⁾	-	-	-	17,30	80	60	285	142	350	218	764	18	160	180	326	308	844	210	256	300	254	15	115
25-250 ²⁴⁾	-	-	5,50	-	100	53	348	174	300	193	606	15	132	225	282	266	706	140	180	256	216	12	130
25-250 ²⁴⁾	-	-	7,50	-	100	53	348	174	300	193	606	15	132	225	282	266	706	140	180	256	216	12	130
25-250 ²³⁾	-	-	11,00	-	100	60	348	174	350	226	772	18	160	225	334	308	872	210	256	300	254	15	130
25-250 ²³⁾	-	-	15,00	-	100	60	348	174	350	226	772	18	160	225	334	308	872	210	256	300	254	15	130

22) Tolerances of mating dimensions to DIN EN 735
 23) On these sizes, the motor feet must be shimmed (20 mm).
 24) On these sizes, the motor feet must be shimmed (45 mm).

Etachrom BC 32, from motor 132 (5.50 kW), with motor foot



Etachrom BC with motor foot

6 B	Fluid drain	G 3/8G = ISO 228/1
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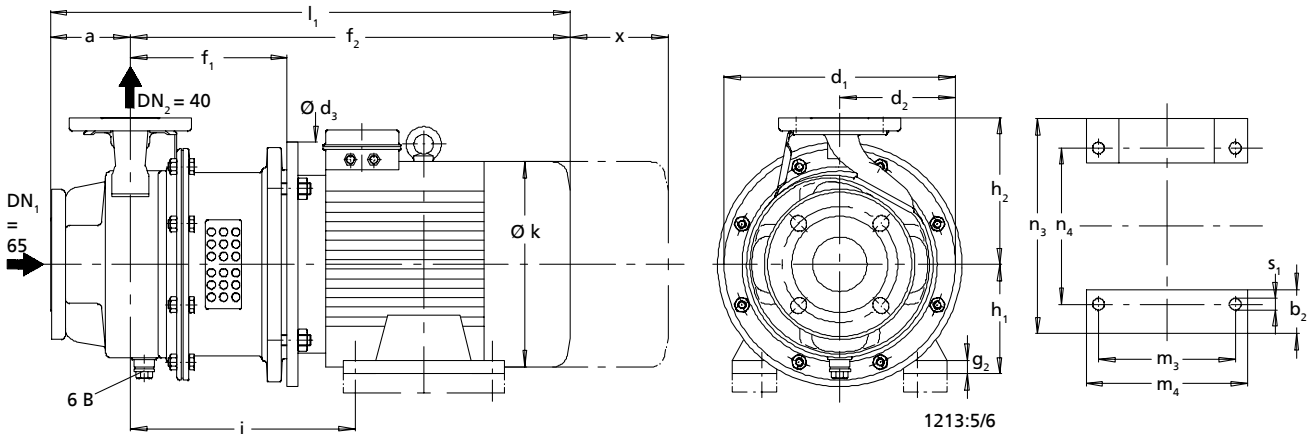
DN = EN 1092-2/DN.../PN 16/B

Dimensions

Size	[kW]				[mm] ²⁵⁾																							
	1450 min ⁻¹	1750 min ⁻¹	2900 min ⁻¹	3500 min ⁻¹	a	b ₂ ~	d ₁	d ₂	d ₃	f ₁	f ₂ ~	g ₂	h ₁	h ₂	i	k ~	l ₁ ~	m ₃	m ₄	n ₃	n ₄	s ₁	x					
32-160 ²⁶⁾	-	-	5,50	6,30	80	53	255	127	300	188	601	15	132	160	277	266	681	140	180	256	216	12	115					
32-160 ²⁶⁾	-	-	-	8,60	80	53	255	127	300	188	601	15	132	160	277	266	681	140	180	256	216	12	115					
32-160 ²⁶⁾	-	-	-	12,60	80	60	255	127	350	218	764	18	160	160	326	308	844	210	256	300	254	15	115					
32-200 ²⁶⁾	-	-	5,50	6,30	80	53	285	142	300	188	601	15	132	180	277	266	681	140	180	256	216	12	115					
32-200 ²⁶⁾	-	-	7,50	8,60	80	53	285	142	300	188	601	15	132	180	277	266	681	140	180	256	216	12	115					
32-200 ²⁶⁾	-	-	11,00	12,60	80	60	285	142	350	218	764	18	160	180	326	308	844	210	256	300	254	15	115					
32-200 ²⁶⁾	-	-	-	17,30	80	60	285	142	350	218	764	18	160	180	326	308	844	210	256	300	254	15	115					
32-250 ²⁷⁾	-	6,30	5,50	-	100	53	348	174	300	193	606	15	132	225	282	266	706	140	180	256	216	12	130					
32-250 ²⁷⁾	-	-	7,50	-	100	53	348	174	300	193	606	15	132	225	282	266	706	140	180	256	216	12	130					
32-250 ²⁶⁾	-	-	11,00	-	100	60	348	174	350	226	772	18	160	225	334	308	872	210	256	300	254	15	130					
32-250 ²⁶⁾	-	-	15,00	-	100	60	348	174	350	226	772	18	160	225	334	308	872	210	256	300	254	15	130					
32-250 ²⁶⁾	-	-	18,50	-	100	60	348	174	350	226	778	18	160	225	334	308	878	254	300	300	254	15	130					

25) Tolerances of mating dimensions to DIN EN 735
 26) On these sizes, the motor feet must be shimmed (20 mm).
 27) On these sizes, the motor feet must be shimmed (45 mm).

Etachrom BC 40, from motor 132 (5.50 kW), with motor foot



Etachrom BC with motor foot

6 B	Fluid drain	G 3/8G = ISO 228/1
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DN = EN 1092-2/DN.../PN 16/B

Dimensions

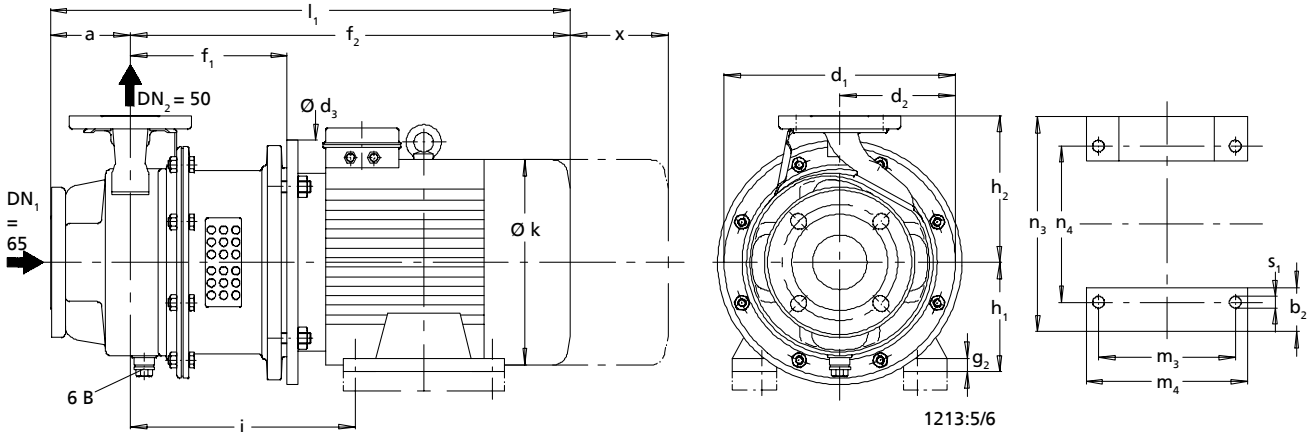
Size	1450 min ⁻¹	1750 min ⁻¹	2900 min ⁻¹	3500 min ⁻¹	a	b ₂	d ₁	d ₂	d ₃	f ₁	f ₂	g ₂	h ₁	h ₂	i	k	l ₁	m ₃	m ₄	n ₃	n ₄	s ₁	x
	[kW]				[mm] ²⁸⁾																		
40-160 ²⁹⁾	-	-	5,50	6,30	80	53	254	127	300	190	603	15	132	160	279	266	683	140	180	256	216	12	115
40-160 ²⁹⁾	-	-	7,50	8,60	80	53	254	127	300	190	603	15	132	160	279	266	683	140	180	256	216	12	115
40-160 ²⁹⁾	-	-	11,00	12,60	80	60	254	127	350	220	766	18	160	160	328	308	846	210	256	300	254	15	115
40-160 ²⁹⁾	-	-	-	17,30	80	60	254	127	350	220	766	18	160	160	328	308	846	210	256	300	254	15	115
40-200 ²⁹⁾	-	-	5,50	-	100	53	284	142	300	190	603	15	132	180	279	266	703	140	180	256	216	12	115
40-200 ²⁹⁾	-	-	7,50	-	100	53	284	142	300	190	603	15	132	180	279	266	703	140	180	256	216	12	115
40-200 ²⁹⁾	-	-	11,00	12,60	100	60	284	142	350	220	766	18	160	180	328	308	866	210	256	300	254	15	115
40-200 ²⁹⁾	-	-	-	17,30	100	60	284	142	350	220	766	18	160	180	328	308	866	210	256	300	254	15	115
40-200 ²⁹⁾	-	-	-	21,30	100	60	284	142	350	220	772	18	160	180	328	308	872	254	300	300	254	15	115
40-250 ³⁰⁾	-	6,30	-	-	100	53	348	174	300	193	606	15	132	225	282	266	706	140	180	256	216	12	130
40-250 ³⁰⁾	-	-	7,50	-	100	53	348	174	300	193	606	15	132	225	282	266	706	140	180	256	216	12	130
40-250 ²⁹⁾	-	-	11,00	-	100	60	348	174	350	226	772	18	160	225	334	308	872	210	256	300	254	15	130
40-250 ²⁹⁾	-	-	15,00	-	100	60	348	174	350	226	772	18	160	225	334	308	872	210	256	300	254	15	130
40-250 ²⁹⁾	-	-	18,50	-	100	60	348	174	350	226	778	18	160	225	334	308	878	254	300	300	254	15	130
40-250	-	-	22,00	-	100	70	348	174	350	226	836	18	180	225	347	358	936	241	287	339	279	15	130

28) Tolerances of mating dimensions to DIN EN 735

29) On these sizes, the motor feet must be shimmed (20 mm).

30) On these sizes, the motor feet must be shimmed (45 mm).

Etachrom BC 50, from motor 132 (5.50 kW), with motor foot



Etachrom BC with motor foot

6 B	Fluid drain	G 3/8G = ISO 228/1
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DN = EN 1092-2/DN.../PN 16/B

Dimensions

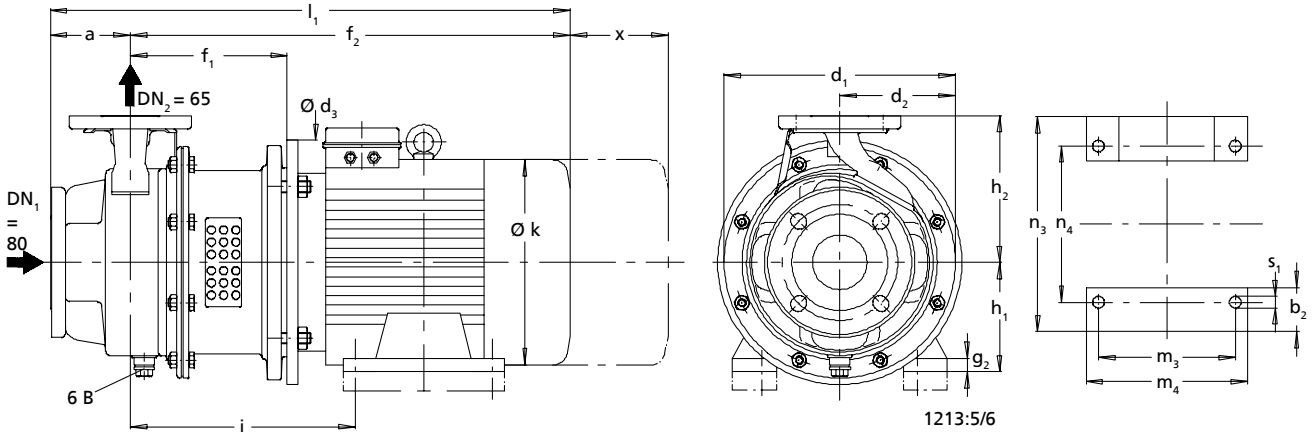
Size	1450 min ⁻¹	1750 min ⁻¹	2900 min ⁻¹	3500 min ⁻¹	a	b ₂	d ₁	d ₂	d ₃	f ₁	f ₂	g ₂	h ₁	h ₂	i	k	l ₁	m ₃	m ₄	n ₃	n ₄	s ₁	x
	[kW]				[mm] ³¹⁾																		
50-125 ³²⁾	-	-	5,50	6,30	100	53	254	127	300	190	603	15	132	160	279	266	703	140	180	256	216	12	130
50-125 ³²⁾	-	-	7,50	8,60	100	53	254	127	300	190	603	15	132	160	279	266	703	140	180	256	216	12	130
50-125 ³²⁾	-	-	-	12,60	100	60	254	127	350	220	766	18	160	160	328	308	866	210	256	300	254	15	130
50-125 ³²⁾	-	-	-	17,30	100	60	254	127	350	220	766	18	160	160	328	308	866	210	256	300	254	15	130
50-160 ³²⁾	-	-	5,50	-	100	53	254	127	300	190	603	15	132	180	279	265	703	140	180	256	216	12	130
50-160 ³²⁾	-	-	7,50	-	100	53	254	127	300	190	603	15	132	180	279	265	703	140	180	256	216	12	130
50-160 ³²⁾	-	-	11,00	12,60	100	60	254	127	350	220	766	18	160	180	328	308	866	210	256	300	254	15	130
50-160 ³²⁾	-	-	15,00	17,30	100	60	254	127	350	220	766	18	160	180	328	308	866	210	256	300	254	15	130
50-160 ³²⁾	-	-	-	21,30	100	60	254	127	350	220	772	18	160	180	328	308	872	254	300	300	254	15	130
50-200 ³³⁾	-	6,30	-	-	100	53	313	156	300	193	606	15	132	200	118	266	706	140	180	256	216	12	130
50-200 ³³⁾	-	-	5,50	-	100	53	312	156	300	193	606	15	132	200	282	265	706	140	180	256	216	12	130
50-200 ³³⁾	-	-	7,50	-	100	53	312	156	300	193	606	15	132	200	282	265	706	140	180	256	216	12	130
50-200 ³²⁾	-	-	11,00	12,60	100	60	312	156	350	226	772	18	160	200	334	308	872	210	256	300	254	15	130
50-200 ³²⁾	-	-	15,00	17,30	100	60	312	156	350	226	772	18	160	200	334	308	872	210	256	300	254	15	130
50-200 ³²⁾	-	-	18,50	21,30	100	60	312	156	350	226	778	18	160	200	334	308	878	254	300	300	254	15	130
50-200 ³²⁾	-	-	22,00	24,50	100	70	312	156	350	226	836	18	180	200	347	358	936	241	287	339	279	15	130
50-200 ³²⁾	-	-	-	33,50	100	83	312	156	400	226	895	24	200	200	359	398	995	305	355	388	318	19	130
50-200 ³²⁾	-	-	-	41,50	100	83	312	156	400	226	895	24	200	200	359	398	995	305	355	388	318	19	130
50-250 ³³⁾	-	6,30	-	-	100	53	348	174	300	193	606	15	132	225	118	266	706	140	180	256	216	12	130
50-250 ³³⁾	-	8,60	-	-	100	53	348	174	300	193	634	15	132	225	118	266	734	178	218	256	216	12	130
50-250 ³²⁾	-	12,60	-	-	100	60	348	174	350	226	772	18	160	225	118	308	872	210	256	300	254	15	130
50-250 ³²⁾	-	-	15,00	-	100	60	348	174	350	226	772	18	160	225	334	308	872	210	256	300	254	15	130

31) Tolerances of mating dimensions to DIN EN 735
 32) On these sizes, the motor feet must be shimmed (20 mm).
 33) On these sizes, the motor feet must be shimmed (45 mm).

Size	1450 min ⁻¹	1750 min ⁻¹	2900 min ⁻¹	3500 min ⁻¹	a	b ₂ ~	d ₁	d ₂	d ₃	f ₁	f ₂ ~	g ₂	h ₁	h ₂	i	k ~	l ₁ ~	m ₃	m ₄	n ₃	n ₄	s ₁	x
	[kW]				[mm] ³¹⁾																		
50-250 ³²⁾	-	-	18,50	-	100	60	348	174	350	226	778	18	160	225	334	308	878	254	300	300	254	15	130
50-250 ³²⁾	-	-	22,00	-	100	70	348	174	350	226	836	18	180	225	347	358	936	241	287	339	279	15	130
50-250 ³²⁾	-	-	30,00	-	100	83	348	174	400	226	895	24	200	225	359	398	995	305	355	388	318	19	130
50-250 ³²⁾	-	-	37,00	-	100	83	348	174	400	226	895	24	200	225	359	398	995	305	355	388	318	19	130

³¹⁾ Tolerances of mating dimensions to DIN EN 735

Etachrom BC 65, from motor 132 (5.50 kW), with motor foot



Etachrom BC with motor foot

6 B	Fluid drain	G 3/8G = ISO 228/1
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DN = EN 1092-2/DN.../PN 16/B

Dimensions

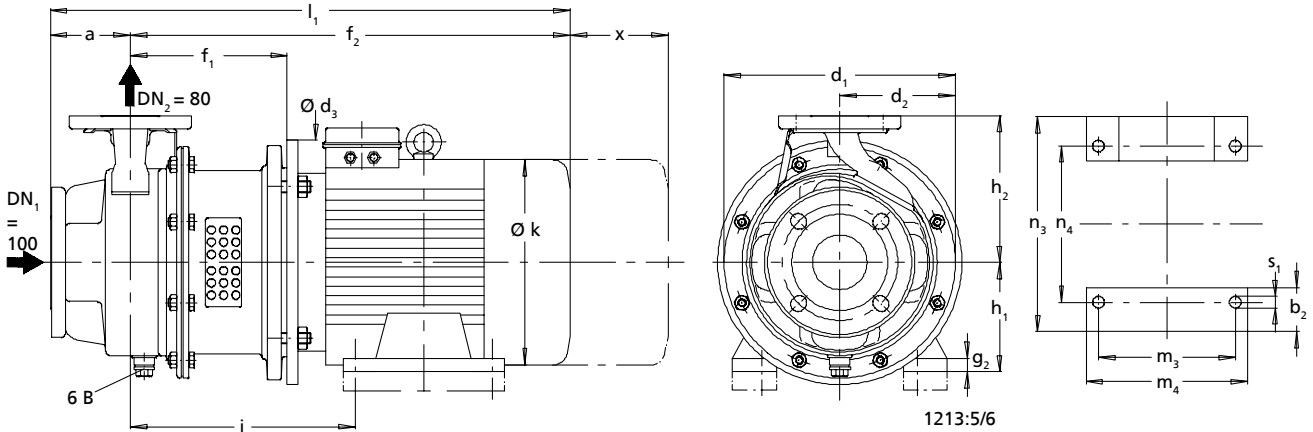
Size	[min ⁻¹]				a	b ₂ ~	d ₁	d ₂	d ₃	f ₁	f ₂ ~	g ₂	h ₁	h ₂	i	k ~	l ₁ ~	m ₃	m ₄	n ₃	n ₄	s ₁	x
	1450	1750	2900	3500																			
	[kW]				[mm] ³⁴⁾																		
65-200 ³⁵⁾	-	6,30	-	-	100	53	348	174	300	193	606	15	132	225	282	266	706	140	180	256	216	12	130
65-200 ³⁵⁾	-	8,60	-	-	100	53	348	174	300	193	634	15	132	225	282	266	734	178	218	256	216	12	130
65-200 ³⁶⁾	-	-	11,00	-	100	60	348	174	350	226	772	18	160	225	334	308	872	210	256	300	254	15	130
65-200 ³⁶⁾	-	-	15,00	-	100	60	348	174	350	226	772	18	160	225	334	308	872	210	256	300	254	15	130
65-200 ³⁶⁾	-	-	18,50	21,30	100	60	348	174	350	226	778	18	160	225	334	308	878	254	300	300	254	15	130
65-200 ³⁶⁾	-	-	22,00	24,50	100	70	348	174	350	226	836	18	180	225	347	358	936	241	287	339	279	15	130
65-200 ³⁶⁾	-	-	30,00	33,50	100	83	348	174	400	226	895	24	200	225	359	398	995	305	355	388	318	19	130
65-200 ³⁶⁾	-	-	37,00	41,50	100	83	348	174	400	226	895	24	200	225	359	398	995	305	355	388	318	19	130
65-200 ³⁶⁾	-	-	45,00	51,00	100	103	348	174	450	226	981	24	225	225	375	398	1081	311	361	426	356	19	130
65-250 ³⁵⁾	5,50	6,30	-	-	100	53	348	174	300	213	626	15	132	250	302	266	726	140	180	256	216	12	140
65-250 ³⁵⁾	7,50	8,60	-	-	100	53	348	174	300	213	654	15	132	250	302	266	754	178	218	256	216	12	140
65-250 ³⁶⁾	-	12,60	-	-	100	60	348	174	350	246	792	18	160	250	354	308	892	210	256	300	254	15	140
65-250 ³⁶⁾	-	-	15,00	-	100	60	348	174	350	246	792	18	160	250	354	308	892	210	256	300	254	15	150
65-250 ³⁶⁾	-	-	18,50	-	100	60	348	174	350	246	798	18	160	250	354	308	898	254	300	300	254	15	150
65-250 ³⁶⁾	-	-	22,00	-	100	70	348	174	350	246	856	18	180	250	367	358	956	241	287	338	279	15	150
65-250 ³⁶⁾	-	-	30,00	-	100	83	348	174	400	246	915	24	200	250	379	358	1015	305	355	388	318	19	150
65-250 ³⁶⁾	-	-	37,00	-	100	83	348	174	400	246	915	24	200	250	379	398	1015	305	355	388	318	19	150
65-250 ³⁶⁾	-	-	45,00	-	100	103	348	174	450	270	1025	24	225	250	419	398	1125	311	361	426	356	19	150

34) Tolerances of mating dimensions to DIN EN 735

35) On these sizes, the motor feet must be shimmed (45 mm).

36) On these sizes, the motor feet must be shimmed (20 mm).

Etachrom BC 80, from motor 132 (5.50 kW), with motor foot



Etachrom BC with motor foot

6 B	Fluid drain	G 3/8G = ISO 228/1
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DN = EN 1092-2/DN.../PN 16/B

Dimensions

Size	1450 min ⁻¹	1750 min ⁻¹	2900 min ⁻¹	3500 min ⁻¹	a	b ₂	d ₁	d ₂	d ₃	f ₁	f ₂	g ₂	h ₁	h ₂	i	k	l ₁	m ₃	m ₄	n ₃	n ₄	s ₁	x
	[kW]				[mm] ³⁷⁾																		
80-200 ³⁸⁾	5,50	6,30	-	-	125	53	348	174	300	213	626	15	132	250	302	266	751	140	180	256	216	12	150
80-200 ³⁸⁾	7,50	8,60	-	-	125	53	348	174	300	213	654	15	132	250	302	266	779	178	218	256	216	12	150
80-200 ³⁹⁾	-	12,60	-	-	125	60	348	174	350	246	792	18	160	250	354	308	917	210	256	300	254	15	150
80-200 ³⁹⁾	-	-	15,00	-	125	60	348	174	350	246	792	18	160	250	354	308	917	210	256	300	254	15	150
80-200 ³⁹⁾	-	-	18,50	-	125	60	348	174	350	246	798	18	160	250	354	308	923	254	300	300	254	15	150
80-200 ³⁹⁾	-	-	22,00	-	125	70	348	174	350	246	856	18	180	250	367	358	981	241	287	338	279	15	150
80-200 ³⁹⁾	-	-	30,00	-	125	83	348	174	400	246	915	24	200	250	379	358	1040	305	355	388	318	19	150
80-200 ³⁹⁾	-	-	37,00	-	125	83	348	174	400	246	915	24	200	250	379	398	1040	305	355	388	318	19	150
80-200 ³⁹⁾	-	-	45,00	-	125	103	348	174	450	270	1025	24	225	250	419	398	1150	311	361	426	356	19	150
80-250 ³⁸⁾	5,50	6,30	-	-	125	53	348	174	300	213	626	15	132	280	302	266	751	140	180	256	216	12	150
80-250 ³⁸⁾	7,50	8,60	-	-	125	53	348	174	300	213	654	15	132	280	302	266	779	178	218	256	216	12	150
80-250 ³⁹⁾	11,00	12,60	-	-	125	60	348	174	350	246	792	18	160	280	354	308	917	210	256	300	254	15	150
80-250 ³⁹⁾	15,00	17,30	-	-	125	60	348	174	350	246	798	18	160	280	354	308	923	254	300	300	254	15	150
80-250	-	21,30	-	-	125	70	348	174	350	246	856	18	180	280	367	358	981	241	287	339	279	15	150

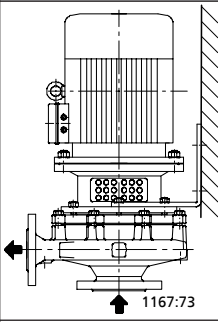
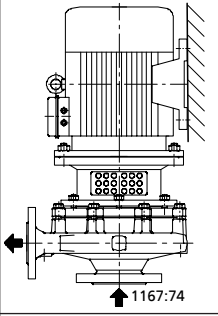
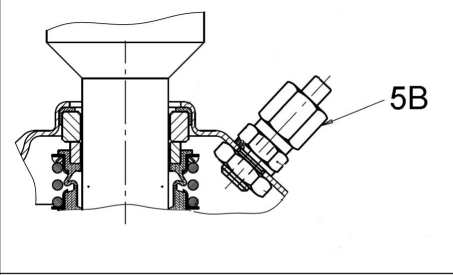
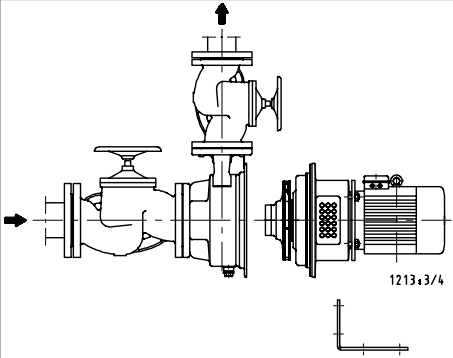
37) Tolerances of mating dimensions to DIN EN 735
 38) On these sizes, the motor feet must be shimmed (45 mm).
 39) On these sizes, the motor feet must be shimmed (20 mm).

Notes on installation

Typical installation positions of an Etachrom BC
Horizontal installation

Examples	Special features
<p>1165:60</p>	<p>Pump foot fastened at the bottom</p> <ul style="list-style-type: none"> Up to motor size 112 = 4 kW
<p>1165:62/2</p>	<p>Pump foot fastened at the top</p> <ul style="list-style-type: none"> Up to motor size 112 = 4 kW The motor must be turned by 180°.
<p>1167:68</p>	<p>Motor foot fastened at the bottom</p> <ul style="list-style-type: none"> Motor size 132 = 5.5 kW to 180 = 22 kW
<p>1167:69</p>	<p>Motor foot fastened at the top</p> <ul style="list-style-type: none"> Motor size 132 = 5.5 kW to 180 = 22 kW
<p>1167:71</p>	<p>Motor foot fastened at the bottom, additional support</p> <ul style="list-style-type: none"> Motor size 200 = 30 kW to 225 = 45 kW

Typical installation positions of an Etachrom BC
Vertical installation

Examples	Special features
	<p>Pump foot fastened at the side</p> <ul style="list-style-type: none"> Up to motor size 112 = 4 kW For vertical installation with the motor on top, use connection 5B (if any) for venting.
	<p>Motor foot fastened at the side</p> <ul style="list-style-type: none"> From motor size 132 = 5.5 kW For vertical installation with the motor on top, use connection 5B (if any) for venting.
	<p>Vent valve Model with vent valve for vertical installation</p>
	<p>Pulling out the back pull-out unit</p>

Interchangeability of components within the Etachrom BC type series, and those of Etachrom BC and NC

Pump components⁴⁰⁾ Etachrom BC

Size	Shaft unit	Pump casing				Motor										Shaft		Impeller	Drive lantern					O-ring	Mechanical seal	Casing wear ring, suction side		Casing wear ring, discharge side		Shaft sleeve
		101	132	163	182.2											210	230						412.1	433	502.1	502.2	523			
		80	90	100/112	132	160	180	200	225																					
		80	90	100/112	132	160	180	200	225	80	90	100/112	132	160	180	200	225													
25-125.1/...	25.1	1	X	1*	1	1	2	3	□	□	□	□	□	□	□	1*	1	1	2	□	□	□	□	□	□	1*	1*	1*	X	X
25-125/...	25.1	1	X	1*	1	1	2	3	□	□	□	□	□	□	□	2*	1	1	2	□	□	□	□	□	□	1*	1*	1*	X	X
25-160/...	25.1	○	X	5*	2	1	2	3	4	□	□	□	□	□	□	3*	3	3	4	5	□	□	□	□	□	2*	1*	1*	X	X
25-200/...	25.1	○	X	2*	3	1	2	3	4	5	□	□	□	□	□	4*	7	7	8	9	10	□	□	□	□	3*	1*	7*	1*	X
25-250/...	25.2	○	1*	3*	4	6	7	8	9	10	□	□	□	□	□	5*	11	11	12	13	14	□	□	□	□	4*	2*	6*	2*	X
32-125.1/...	25.1	2	X	1*	1	1	2	3	□	□	□	□	□	□	□	1*	1	1	2	□	□	□	□	□	□	1*	1*	1*	X	X
32-125/...	25.1	2	X	1*	1	1	2	3	□	□	□	□	□	□	□	2*	1	1	2	□	□	□	□	□	□	1*	1*	1*	X	X
32-160/...	25.1	○	X	5*	2	1	2	3	4	5	□	□	□	□	□	3*	3	3	4	5	6	□	□	□	□	2*	1*	1*	X	X
32-200/...	25.1	○	X	2*	3	1	2	3	4	5	□	□	□	□	□	4*	7	7	8	9	10	□	□	□	□	3*	1*	7*	1*	X
32-250/...	25.2	○	1*	3*	4	6	7	8	9	10	□	□	□	□	□	5*	11	11	12	13	14	□	□	□	□	4*	2*	6*	2*	X
40-125/...	25.1	○	X	1*	1	1	2	3	□	□	□	□	□	□	□	○*	1	1	2	□	□	□	□	□	□	1*	1*	2*	X	X
40-160/...	25.1	○	X	○*	2	1	2	3	4	5	□	□	□	□	□	○*	3	3	4	5	6	□	□	□	□	2*	1*	8*	1*	X
40-200/...	25.1	○	X	2*	3	1	2	3	4	5	□	□	□	□	□	○*	7	7	8	9	10	□	□	□	□	3*	1*	8*	1*	X
40-250/...	25.2	○	1*	3*	4	□	7	8	9	10	11	18	□	□	□	○*	□	11	12	13	14	14	18	□	□	4*	2*	3*	2*	X
50-125/...	25.1	○	X	○*	2	1	2	3	4	5	□	□	□	□	□	○*	3	3	4	5	6	□	□	□	□	2*	1*	2*	X	X
50-160/...	25.1	○	X	○*	2	1	2	3	4	5	□	□	□	□	□	○*	3	3	4	5	6	□	□	□	□	2*	1*	8*	1*	X
50-200/...	25.2	○	○*	○*	4	6	7	8	9	10	11	18	□	□	□	○*	11	11	12	13	14	14	18	□	□	○*	2*	3*	2*	X
50-250/...	25.2	○	1*	3*	4	□	7	8	17	10	11	18	□	□	□	○*	□	11	12	13	14	14	18	□	□	4*	2*	3*	2*	X
65-200/...	25.2	○	1*	○*	4	□	7	8	17	10	11	18	□	□	□	○*	□	11	12	13	14	14	18	□	□	4*	2*	4*	○*	X
65-250/...	35	○	2*	4*	5	□	□	12	13	14	15	16	19	□	□	○*	□	□	15	16	17	17	19	20	□	4*	3*	4*	3*	1*
80-200/...	35	○	2*	4*	5	□	□	12	13	14	15	16	19	□	□	○*	□	□	15	16	17	17	19	20	□	4*	3*	5*	3*	1*
80-250/...	35	○	2*	4*	5	□	□	12	13	14	15	□	□	□	□	○*	□	□	15	16	17	17	□	□	□	4*	3*	5*	3*	1*

Key to the symbols

Symbol	Description
*	Component interchangeable with Etachrom NC; impellers must be of the same diameter
○	Components differ
X	Component not fitted
□	This pump/motor combination is not possible.

Motor rating

Motor	Performance
80	.../054, .../074, .../072, .../112
90	.../114, .../154, .../152, .../222
100	.../224, .../304, .../302
112	.../404, .../402
132	.../552, .../554, .../752, .../754
160	.../1102, .../1104, .../1502, .../1504, .../1852
180	.../1854, .../2202
200	.../3002, .../3702
225	.../4502

⁴⁰⁾ Pump components featuring the same number in a column are interchangeable, i.e. same number = same component

⁴¹⁾ Up to motor size 112 = 4.0 kW only

Recommended spare parts stock for 2 years' operation to DIN 24296

Quantity of spare parts for recommended spare parts stock

Part No.	Description	Number of pumps (including stand-by pumps)						
		2	3	4	5	6 and 7	8 and 9	10 and more
210	Shaft	1	1	1	2	2	2	20 %
230	Impeller	1	1	1	2	2	2	20 %
412	O-ring	4	6	8	8	9	12	150 %
433	Mechanical seal	1	1	2	2	2	3	25 %
502.1	Casing wear ring, suction side	2	2	2	3	3	4	50 %
502.2 ⁴²⁾	Casing wear ring, discharge side	2	2	2	3	3	4	50 %
523 ⁴³⁾	Shaft sleeve	2	2	2	3	3	4	50 %

⁴²⁾ Not applicable for Etachrom BC 25-125.1/..., 25-125/..., 25-160/..., 32-125.1/..., 32-125/..., 32-160/..., 40-125/..., 50-125/...

⁴³⁾ Only for Etachrom BC 65-250/..., 80-200/..., 80-250/...



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