

Close-coupled pumps



Automation products available:

- PumpExpert
- PumpDrive (MM)
- Hyamaster
- hyatronic

Fields of Application

- Water supply
- Fire-fighting systems
- Sprinkling
- Irrigation
- Drainage
- Heating systems
- Air-conditioning systems
- Drinking water
- Service water
- Hot water
- Cooling water
- Swimming pool water
- Fire-fighting water
- Condensate
- Oils
- Cleaning agents

Fluid

Pure liquids not chemically or mechanically aggressive to the pump materials.

Operating Data

	50 Hz	60 Hz
Q	up to 250 m ³ /h, 69.4 l/s	up to 184 m ³ /h, 51 l/s
H	up to 108 m	up to 107 m
t	- 30 °C to + 110 °C	- 30 °C to + 110 °C
p ₂	up to 12 bar ¹⁾	up to 12 bar ¹⁾

1) The sum of inlet pressure and head at zero flow point must not exceed the value indicated.

Design

Horizontal circular casing pump, single-stage, with power ratings to EN 733, pump casing and discharge cover with replaceable casing wear rings.

Pump and motor are flange-connected to form a close-coupled unit. Pump shaft and motor shaft are rigidly connected.

Materials

Circular 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⁾

2) Impeller of pump sizes 50-200, 65-200, 80-200 and all impellers with nominal diameter 250: cast chrome nickel molybdenum steel 1.4408

3) GJL-250 to EN 1561

Shaft Seal

Mechanical seal to EN 12756.

Drive

Surface-cooled KSB-IEC three-phase squirrel cage motor

Winding 50 Hz: up to 2.2 kW 220-240 V/380-420 V
3 kW and above: 380-420 V/660-725 V

60 Hz: 440-480 V

Design: up to 4 kW IM V1
5.5 kW and above: IM V15

Enclosure: IP 55

Thermal class: F with temperature sensors: 3 PTC thermistors

Operating mode: continuous operation S1
or

surface-cooled three-phase squirrel cage motor as described above, but West European brand to KSB's choice.

Contact Guard

Cover plates in drive lantern as per EN 294.

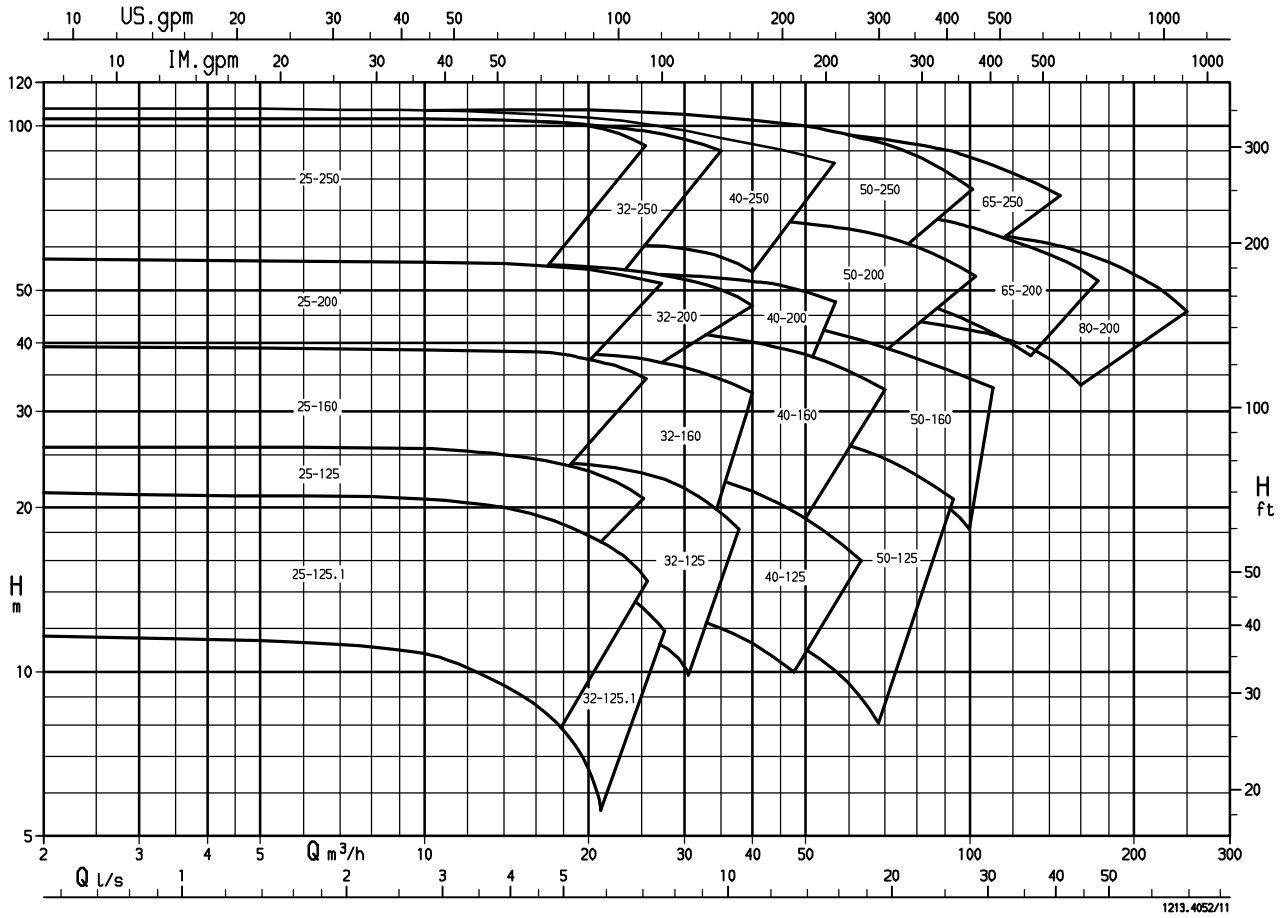
Designation

Type series	Etachrom	BC	40-200/110	2
Close-coupled design				
Casing material	CrNiMo steel 1.4571			
Pump size				
Motor power: kW x 10 (example 11 kW)				
Number of motor poles				

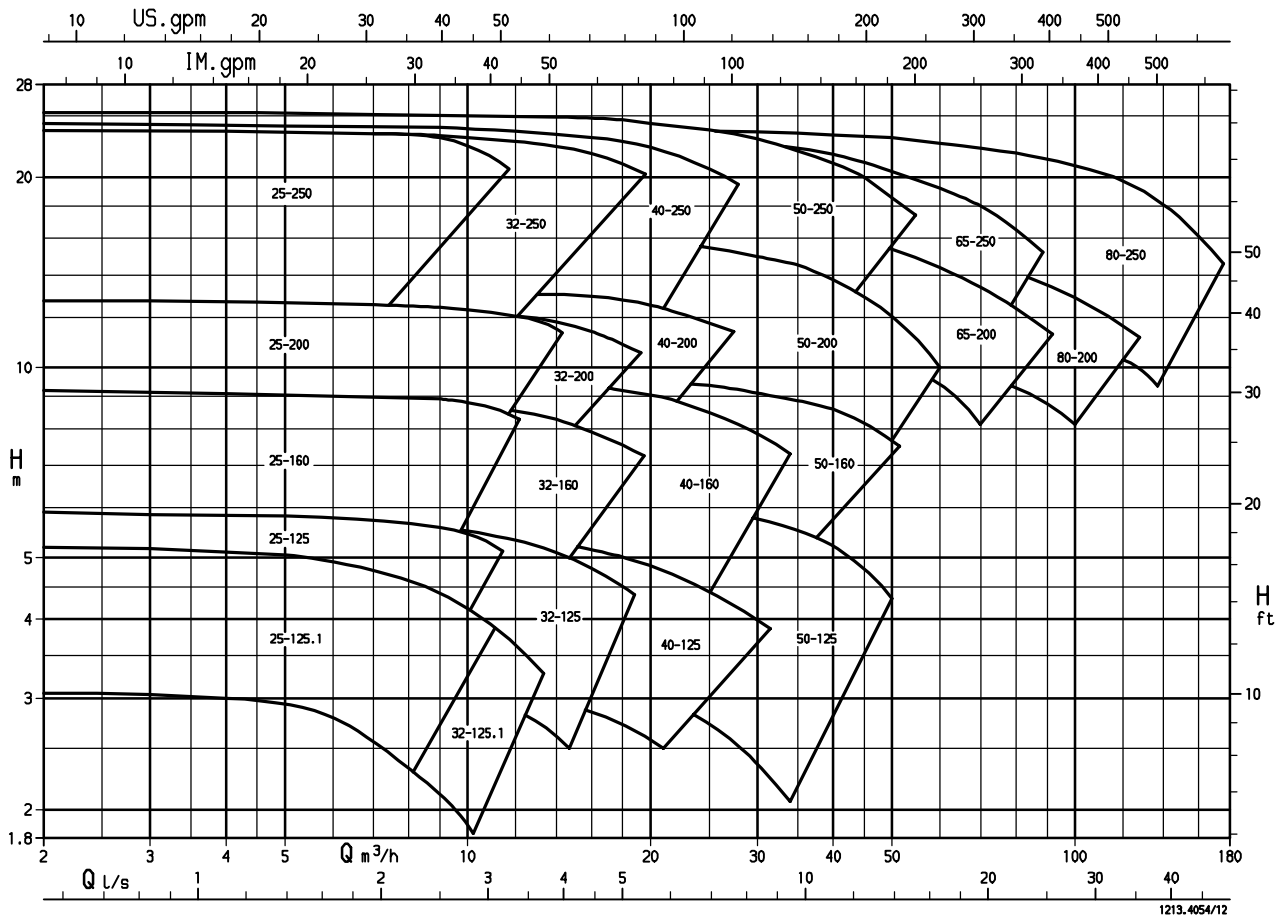
Certification

Certified quality management ISO 9001.

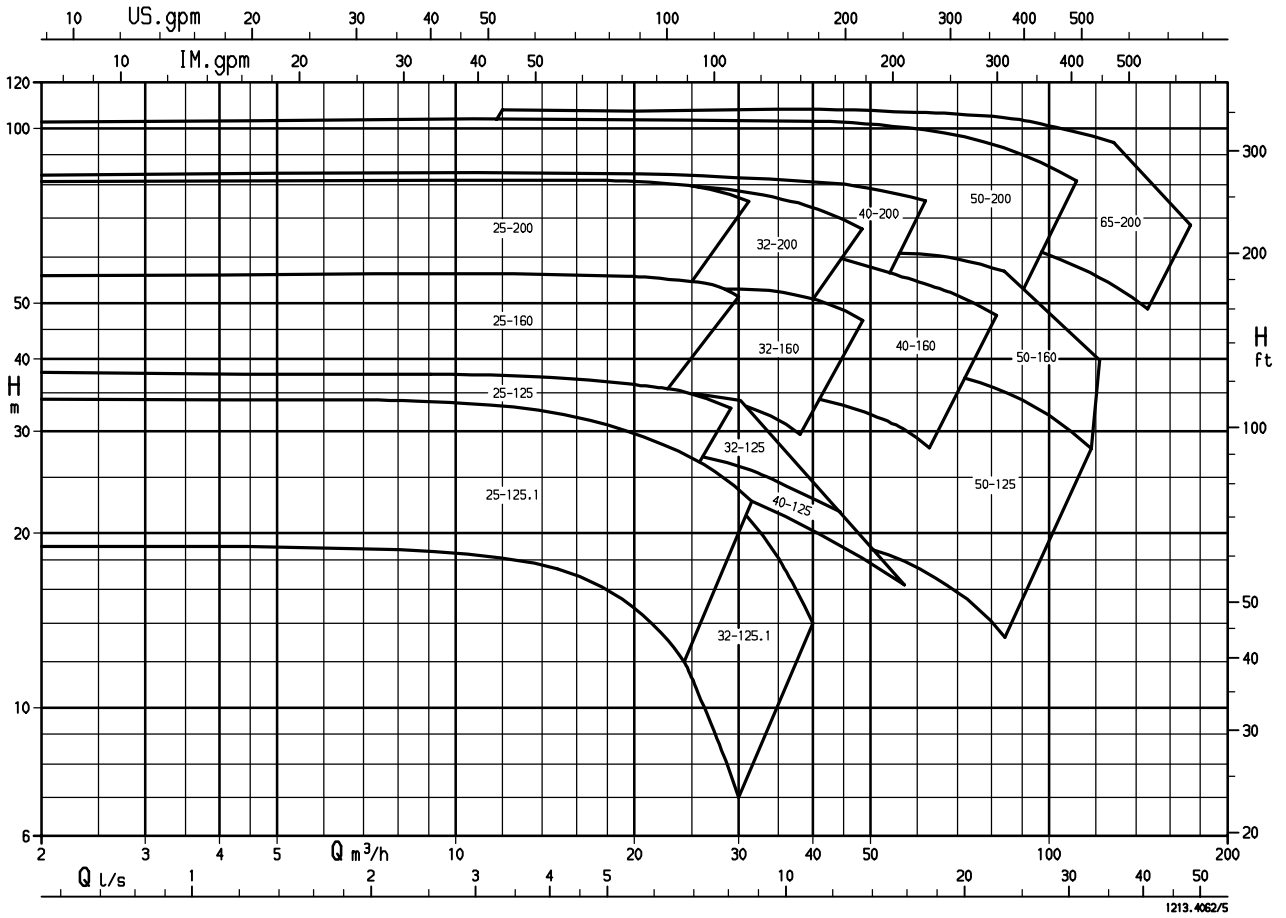
$n \approx 2900 \text{ 1/min}$



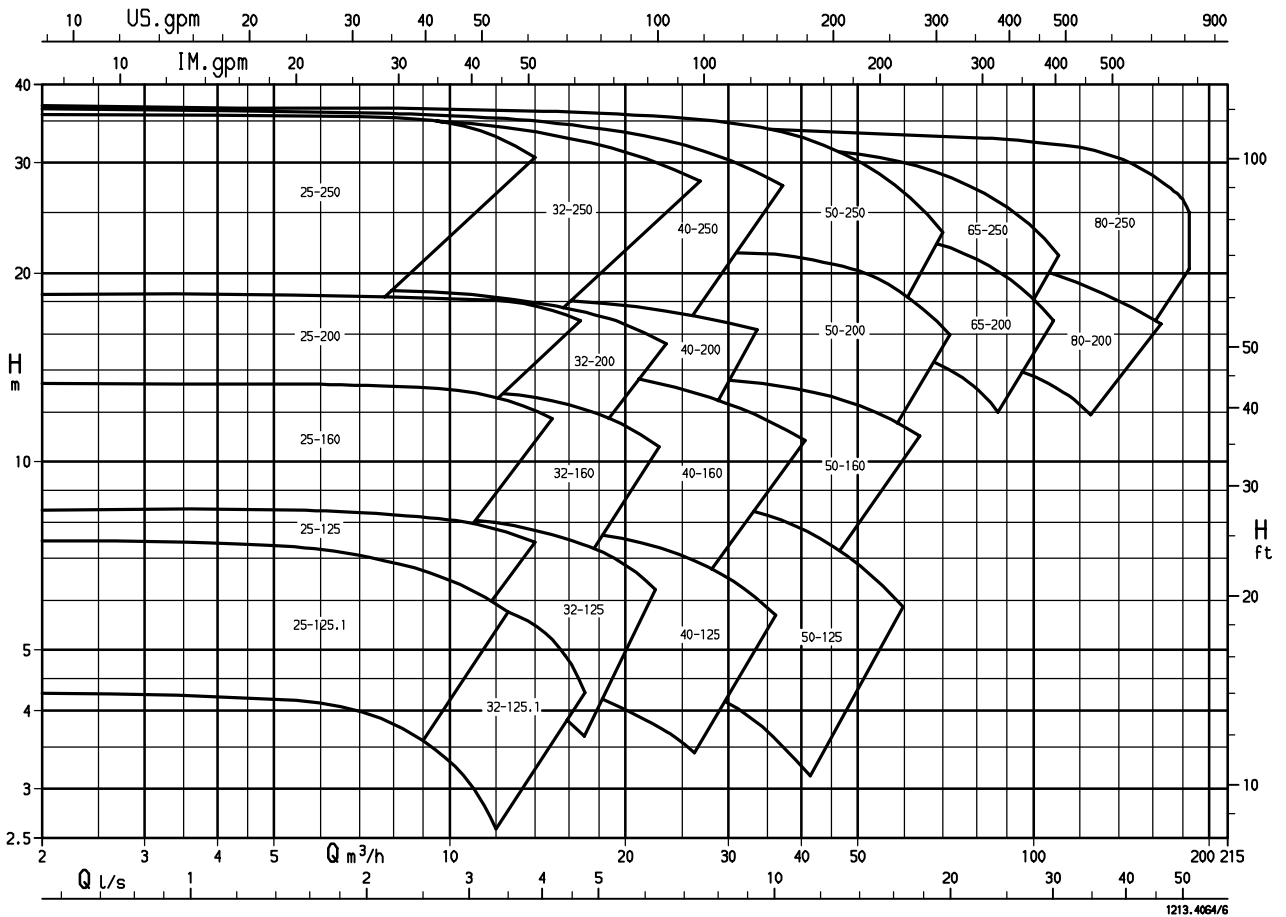
$n \approx 1450 \text{ 1/min}$



$n \approx 3500$ 1/min



$n \approx 1750$ 1/min



Advantages at a glance

Etachrom BC

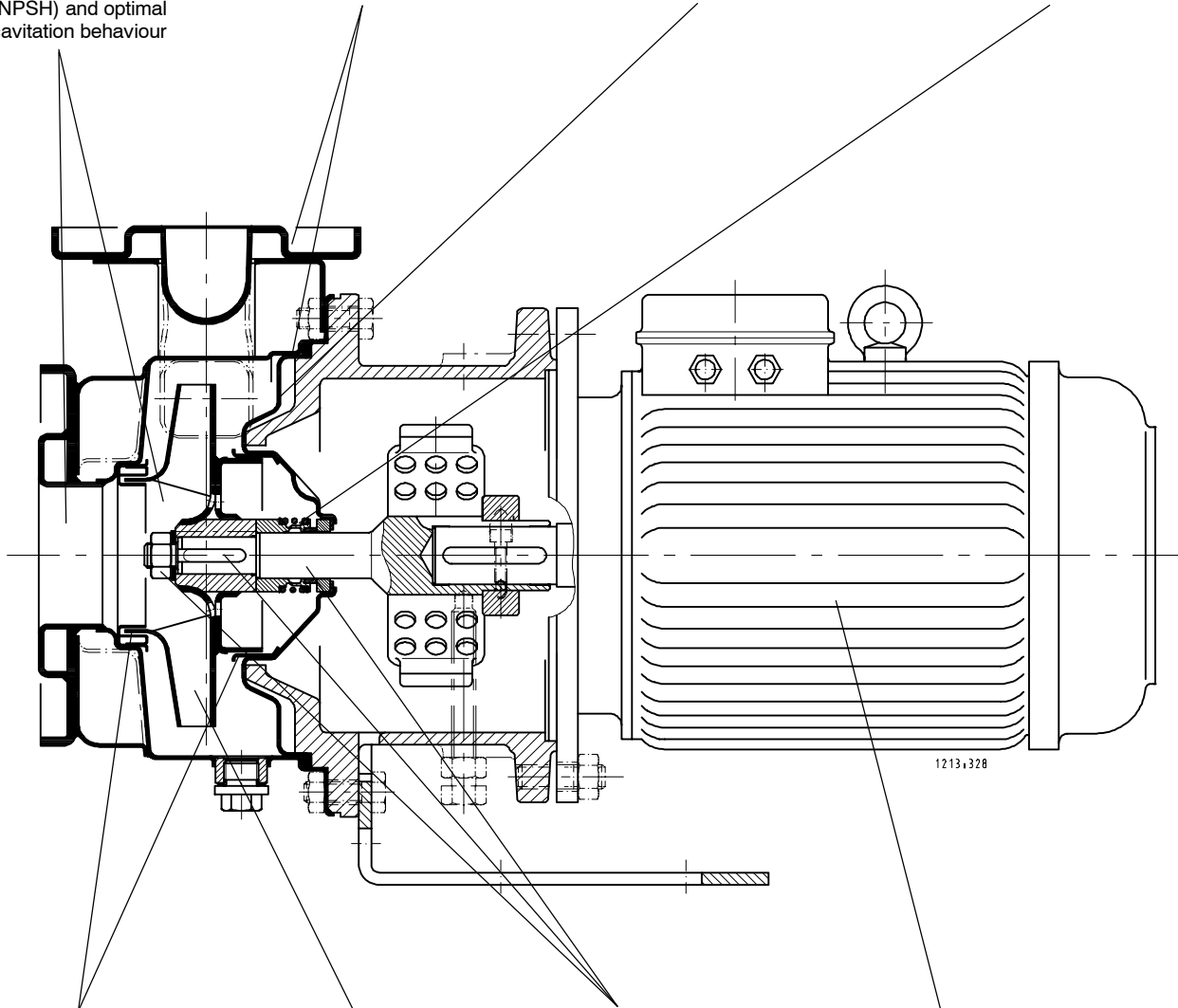
25-125.1/...	32-125.1/...	40-125/...	50-125/...	65-200/... 1)	80-200/... 1)
25-125/...	32-125/...	40-160/...	50-160/...	65-250/... 1)	80-250/... 1)
25-160/...	32-160/...	40-200/...	50-200/... 1)		
25-200/...	32-200/...	40-250/... 1)	50-250/... 1)		
25-250/... 1)	32-250/... 1)				

Suction geometry designed for max. suction capacity (NPSH) and optimal cavitation behaviour

Circular casing, discharge cover: deep-drawn chrome nickel molybdenum steel

Pressure boundary designed for 12 bar to ensure high operating reliability

Reliable standardized mechanical seal, maintenance-free



Casing wear rings service-friendly, no wear on the casing/ discharge cover

Impeller made of deep-drawn chrome nickel molybdenum steel, with optimized hydraulics, excellent efficiencies
 1) Impeller made of cast chrome nickel molybdenum steel

Shaft, key and hex. nut made of CrNiMo steel

Service-friendly, sturdy KSB IEC three-phase motor

Subject to technical modification without prior notice.

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