

**Etanorm 150-125-315 GB**  
 ETNF150-125-315-GBAF11A GSHAJ4AHB

**Operating point 1 Dimensioning operating point**

**Operating conditions (purchaser requirements)**

Target flow rate	350 m³/h	Vapour pressure determined	-0.9766 bar.r
Fluid	Water, fire-fighting water	Minimum inlet pressure required	0 bar.r
Fluid variant	without further specification 50204	Specified ambient temperature	20 °C
Specified fluid temperature	20 °C	Installation altitude above sea level	1,000 m
Density Fluid handled	998 kg/m³		
Kinematic viscosity Fluid handled	1 mm²/s		

**Operating conditions (performance)**

Flow rate	350 m³/h	Maximum power input at duty point	141.52 kW
Minimum permissible flow rate	76.3 m³/h	Maximum power input / curve	208.59 kW
Head	119.95 m	Pump speed	2,584 1/min
Shut-off head	126.6 m	Discharge pressure-max.	12.39 bar.r
Efficiency Pump	80.44 %		
NPSH required	4.09 m		

**Design data pump**

Scope of supply Pump supplied by KSB	Bare-shaft pump	Minimum permissible fluid temperature	4 °C
Pump standard	EN 733	Maximum permissible fluid temperature	40 °C
Design according to regulation	Sprinkler acc to APSAD R1	Quantity Stages, single-entry	1
Shaft axis position	Horizontal	Casing wear ring design suction-side	Flat
Pump design	Long-coupled (basepl-mounted)	Casing wear ring design discharge-side	Flat
Pump system design	Single-pump system	Installation chamber Casing cover	Cylindrical (C-type cover)
Specification of wetted parts	Manufactured without paint wetting impairment substances	Bearing bracket size / shaft unit	55
Pump direction of rotation, viewed from casing side	Counterclockwise	Bearing bracket type	Bearing bracket
Impeller diameter D2	334 mm	Bearing bracket design	Medium
Impeller type	Radial, closed, multi-channel	Pump bearing type, non-drive end	Anti-friction bearing
Free passage	22.6 mm	Pump bearing type, drive end	Anti-friction bearing
Nut lock for Impeller	Yes	Lubrication type	Grease lubrication
Swirl break	No	Bearing seal Pump	V-ring
		Pump directive	CE

**Etanorm 150-125-315 GB**  
ETNF150-125-315-GBAF11A GSHAJ4AHB

**Nozzle connections pump**

Nominal diameter Suction nozzle	DN 150	Nominal diameter Discharge nozzle	DN 125
Nominal pressure Suction nozzle	PN 16	Nominal pressure Discharge nozzle	PN 16
Suction nozzle position	Axial	Discharge nozzle position	0 deg
Suction nozzle design acc.to	EN1092-2	Discharge nozzle design acc.to	EN1092-2
Suction flange bolt hole pattern as per standard	EN1092-2	Discharge flange bolt hole pattern as per standard	EN1092-2
Flange facing type Inlet	Raised face (B,RF)		
Flange facing type Outlet	Raised face (B,RF)		

**Auxiliary connections pump**

6B Fluid Drain	G 1/2 Drilled and plugged	1M Pressure gauge Discharge nozzle	G 1/2 Drilled and plugged
6D Fluid Filling and venting	G 1/2 Drilled and plugged	1M Pressure gauge Suction nozzle	Without Without
8B Leakage Drain	G 1/2 Drilled		

**Shaft sealing**

Shaft seal type	Packing int barrier fluid (Na)	Shaft seal code	Code 1A
Determined pressure Seal chamber	0.72 bar,r	Material Shaft seal inboard	RT-P

**Materials**

Material Volute casing	EN-GJL-250/A48 CL 35B	Material Bolts/Screws Volute casing	8.8
Material Casing cover	EN-GJL-250/A48 CL 35B	Material Screw plug Volute casing	ST
Material Shaft	1.4057+QT800	Material Static seal Screw plug Volute casing	A4/AISI 316
Material Impeller	CC480K DW	Material Nut Impeller fastening	(CRNIMO ST INT)
Material Casing wear ring suction-side	JL/LAMELLAR GRAPHITE CAST IRON	Material Key	1.4571+C/A276 TP 316 COND B
Material Casing wear ring discharge-side	JL/LAMELLAR GRAPHITE CAST IRON		
Material Shaft protecting sleeve	1.4122+QT750		
Material Bearing bracket	EN-GJL-250/A48 CL 35B		
Material Static seal Discharge cover	DPAF DW001		



**Etanorm 150-125-315 GB**  
ETNF150-125-315-GBAF11A GSHAJ4AHB

**Driver**

Electric motor	No
Drive concept	Combustion engine

**Coating**

**Aggregate**

Surface preparation	Free from dirt, grease, rust
Properties Primer coat	Hydro dip primer, water-dilutable
Thickness Primer coat	60 µm
Properties Top coat	Acrylate dispersion water-thinned
Thickness Top coat	40 µm
Colour Top coat	RAL3000 Flame Red
Colour Top coat Drive	RAL3000 Flame Red

**Packaging**

Suitable for transport	Truck transport
Suitable for storage	Indoor storage
Packaging category	KSB's choice (A0)

**Product properties**

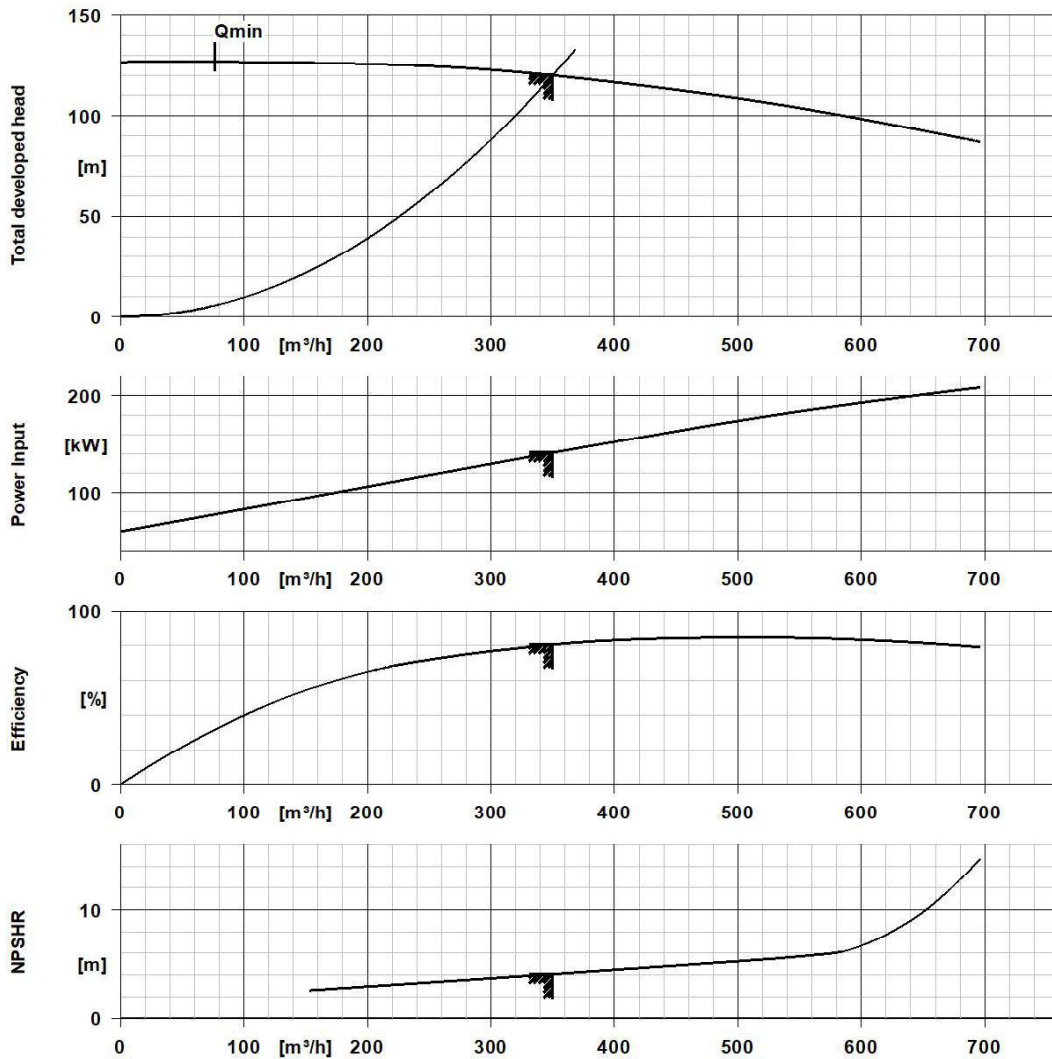
Specification of wetted parts	Manufactured without paint wetting impairment substances
Standard Test of specification of wetted parts	KSB documentation
Certificate Check of specification of wetted parts	Without

**Nameplates**

# Performance Curve (Pump)



## Etanorm 150-125-315 GB ETNF150-125-315-GBAF11A GSHAJ4AHB

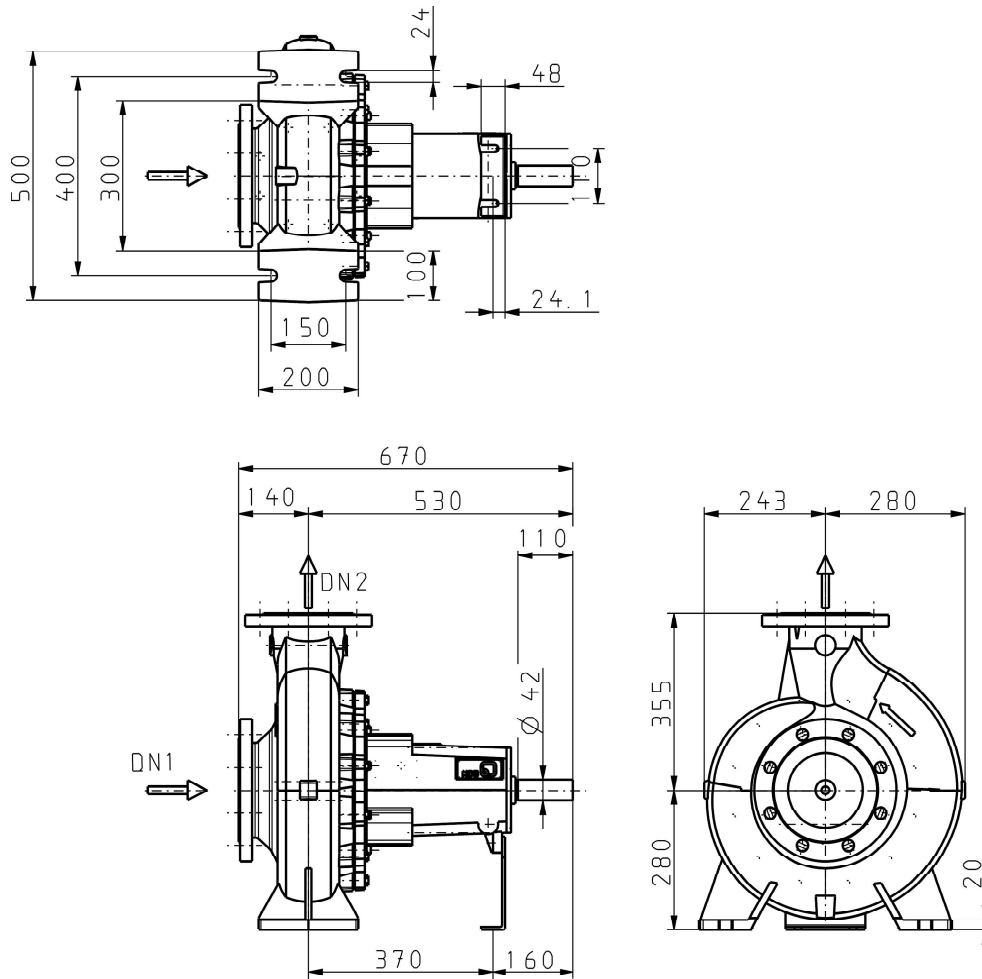


### Curve Data

Pump speed	2,584 1/min	Efficiency Pump	80.4 %
Density Fluid handled	998 kg/m <sup>3</sup>	Maximum power input at duty point	142 kW
Kinematic viscosity Fluid handled	1 mm <sup>2</sup> /s	NPSH required	4.09 m
Flow rate	350 m <sup>3</sup> /h	Hydraulic impeller diameter	334 mm
Head	120 m	Hydraulic calculation according to standard/class	EN ISO 9906 Class 2B

According to EN ISO 9906, §4.4.2 (pump input power below 10 kW)

**Etanorm 150-125-315 GB**  
 ETNF150-125-315-GBAF11A GSHAJ4AHB



Drawing is not to scale.

Dimensions are given in mm

**Motor**

Rated power Motor

0.37 kW

**Connections**

Nominal diameter Suction nozzle	DN 150
Suction flange bolt hole pattern as per standard	EN1092-2
Nominal diameter Discharge nozzle	DN 125
Discharge flange bolt hole pattern as per standard	EN1092-2
Nominal pressure Suction nozzle	PN 16
Nominal pressure Discharge nozzle	PN 16

**Net weight**

Total weight Pump	162.5 kg
-------------------	----------

## Installation plan



Page: 2 / 2

**Etanorm 150-125-315 GB**  
ETNF150-125-315-GBAF11A GSHAJ4AHB

### **Connect pipelines stress-free**

Dimensional tolerances for shaft axis height: DIN 747  
Dimensions without tolerances, middle tolerances to: ISO 2768-m  
Connection dimensions for pumps: EN735  
Dimensions without tolerances - welded parts: ISO 13920-B  
Dimensions without tolerances - gray cast iron parts: ISO 8062-CT9

**Plan for additional connections see extra drawing**