

Technical Datasheet



Customer Item

No.:

Inquiry Date: 01/12/2025

Inquiry No.:

Quantity: 1

Quotation:

Item no.: 100

Date: 01/12/2025

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EtaLine Pro 025-025-090 0,8kW 05153485

Version No.: 0

Operating point 1

Dimensioning operating point

Operating conditions (purchaser requirements)

Fluid	Water
Fluid variant	Clean water
Specified fluid temperature	20 °C
Density Fluid handled	998 kg/m ³
Kinematic viscosity Fluid handled	1 mm ² /s
Maximum allowed fluid temperature	120 °C
Minimum allowed fluid temperature	-20 °C

Vapour pressure determined	0.02337 bar.a
Minimum inlet pressure required	0 bar.r
Specified ambient temperature	20 °C
Installation altitude above sea level	1,000 m

Operating conditions (performance)

Flow rate	3.453 m ³ /h
Mass flow rate	0.9572 kg/s
Minimum permissible flow rate	0.5 m ³ /h
Minimum allowable mass flow rate	0.1386 kg/s
Maximum permissible flow rate	9 m ³ /h
Maximum allowable mass flow rate	2.495 kg/s
Head	15.19 m
Maximum pressure determined at duty point	1.487 bar.r
Shut-off head	9.555 m
Maximum head of characteristic curve	43 m
Efficiency Pump	54.57 %
NPSH required	1.45 m

Maximum power input at duty point	0.2613 kW
Maximum power input / curve	0.4816 kW
Maximum power input Unit	0.8 kW
Pump speed	4,506 1/min
Discharge pressure-max.	0.9352 bar.r

Design data pump

Scope of supply Pump supplied by KSB	Pump + motor
Pump standard	EN 733
Shaft axis position	Horizontal / vertical
Pump design	Close-coupled
Pump system design	Single-pump system
Impeller type	Radial, closed, multi-channel

Mains voltage	380 V
Mains frequency	50 Hz
Maximum power input Unit	0.8 kW
Energy efficiency index EEI	0.62
Minimum permissible fluid temperature	0 °C
Maximum permissible fluid temperature	60 °C
Pump directive	CE

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Nozzle connections pump

Nominal diameter Suction nozzle	DN 25	Nominal diameter Discharge nozzle	DN 25
Adapter flange / Pressure class	PN 6/10/16	Discharge nozzle position	0 deg
Suction nozzle position	Opposite of discharge nozzle	Discharge nozzle design acc.to	EN1092-2
Suction nozzle design acc.to	EN1092-2	Discharge flange bolt hole pattern as per standard	EN1092-2
Suction flange bolt hole pattern as per standard	EN1092-2		

Shaft sealing

Shaft seal type	Single mechanical seal; seal chamber can be vented (A-type casing cover) - AV	Material Shaft seal inboard	Q7Q7EGG
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Materials

Material Volute casing	EN-GJL-250+KATAPHORESE
Material Casing cover	EN-GJL-250+KATAPHORESE
Material Shaft	1.4021+QT650/S
Material Impeller	PPS-GF40

Driver

Electric motor	Yes	Maximum power input Unit	0.8 kW
Drive concept	Electric actuator		
Material motor housing	AL		
Enclosure Unit	IP55		

Packaging

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

Order related documents

Compact Datasheet



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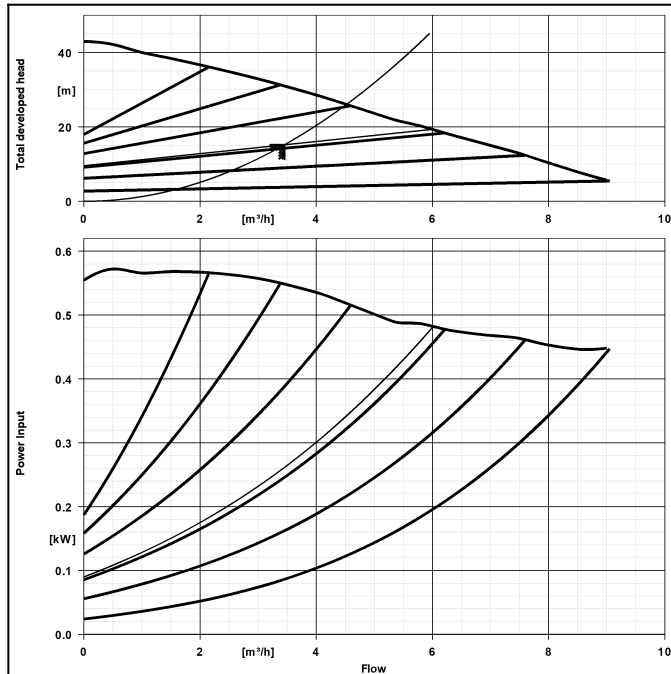
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Design data pump

Pump standard	EN 733
Pump design	Close-coupled
Nominal diameter Suction nozzle	DN 25
Suction nozzle design acc.to	EN1092-2
Suction flange bolt hole pattern as per standard	EN1092-2
Nominal diameter Discharge nozzle	DN 25
PN006_010_016	PN 6/10/16
Discharge nozzle design acc.to	EN1092-2
Discharge flange bolt hole pattern as per standard	EN1092-2
Material Shaft seal inboard	Q7Q7EGG

Materials

Material Volute casing	EN-GJL-250+KATAPHORESE
Material Casing cover	EN-GJL-250+KATAPHORESE
Material Shaft	1.4021+QT650/S
Material Impeller	PPS-GF40

Dimensioning operating point

Fluid	Water
Specified ambient temperature	20 °C
Specified fluid temperature	20 °C
Flow rate	3.45 m³/h
Minimum permissible flow rate	0.5 m³/h
Minimum allowable mass flow rate	0.1386 kg/s
Head	15.2 m
Maximum head of characteristic curve	43 m
Energy efficiency index EEI	0.62
Maximum power input Unit	0.8 kW
Pump speed	4,506 1/min
Pump system design	Single-pump system

Driver

Drive concept	Electric actuator
Input voltage and frequency	3~ 380-480 V +/-10%, 50/60 Hz
Maximum current Unit	1.5 A
Enclosure Unit	IP55
Mains voltage	380 V

Performance Curve (Pump)



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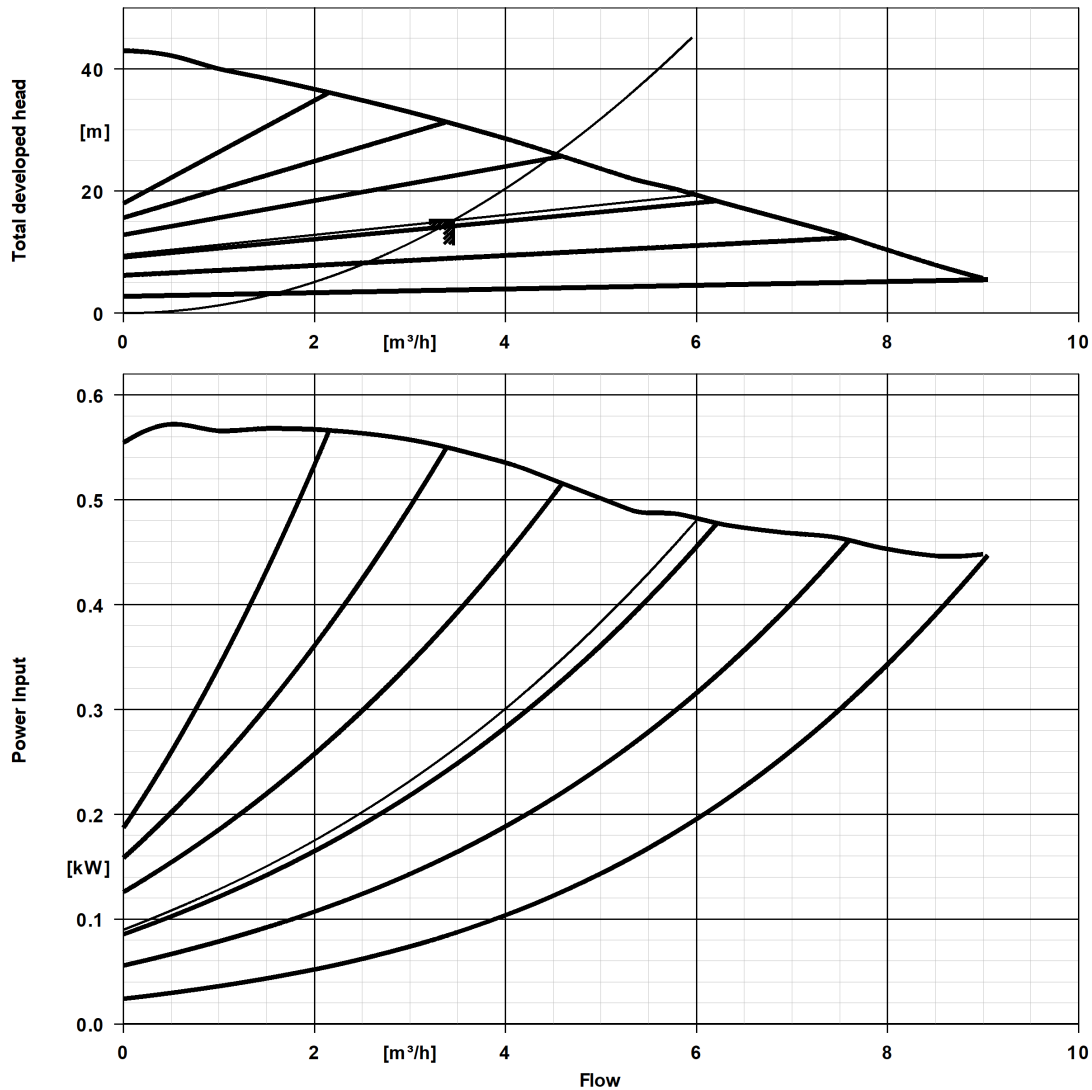
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Curve Data

Pump speed	4,506 1/min
Density Fluid handled	998 kg/m^3
Kinematic viscosity Fluid handled	1 mm^2/s
Flow rate	3.45 m^3/h
Minimum permissible flow rate	0.5 m^3/h
Minimum allowable mass flow rate	0.1386 kg/s
Maximum permissible flow rate Pump set	0 m^3/h
Maximum permissible flow rate	9 m^3/h
Maximum allowable mass flow rate	2.495 kg/s

Energy efficiency index EEI

0.62

Performance Curve (Pump)



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Head	15.2 m
Maximum head of characteristic curve	43 m

Installation plan



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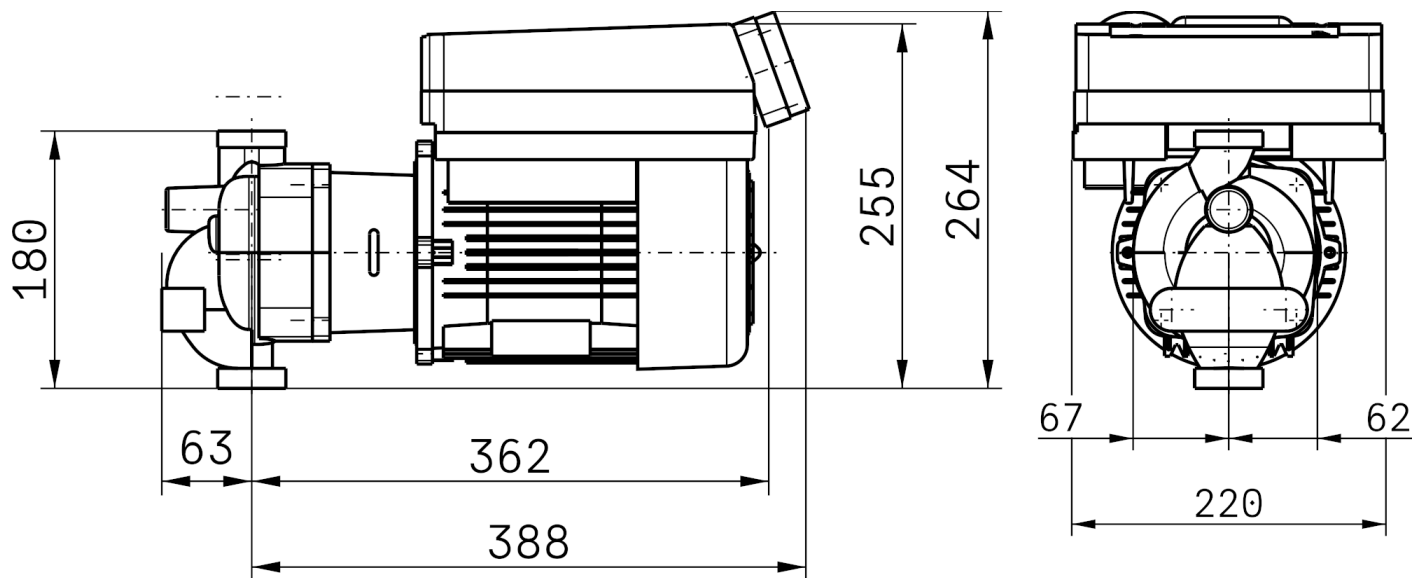
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Drawing is not to scale.

Dimensions are given in mm

Motor

Connections

Nominal diameter Suction nozzle DN 25
Suction flange bolt hole pattern as per standard EN1092-2

Nominal diameter Discharge nozzle DN 25
Discharge flange bolt hole pattern as per standard EN1092-2

Net weight

Total weight Pump 16 kg

Connect pipelines stress-free

Plan for additional connections see extra drawing

Installation plan



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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