

## EtaLine / EtaLine R / EtaLine Z – In-line Pumps



EtaLine with KSB SuPremE® IE5 motor\*, PumpMeter and PumpDrive Eco

### Applications:

- Air-conditioning systems
- Cooling circuits
- Heating systems
- Water supply systems
- Industrial recirculation systems
- Heat recovery systems
- Service water supply systems
- District heating and cooling

**More information:** [www.ksb.com](http://www.ksb.com)



EtaLine R



EtaLine Z with KSB SuPremE® IE5 motor\*,  
PumpMeter and PumpDrive Eco

# EtaLine / EtaLine R / EtaLine Z – In-line Pumps

## Excellent energy efficiency

- Advanced hydraulic system with high efficiencies: As standard, the impeller diameter is trimmed to match the duty point.
- Intelligent pump monitoring with KSB's PumpMeter (optional)
- Intelligent variable speed system with KSB's PumpDrive and KSB SuPremE® motor: energy savings of up to 60 percent
- Smooth casting surfaces of the pump hydraulic system, free from casting residues
- ErP Directive (MEI  $\geq 0.4$ ): Minimum requirements are exceeded by far.

## Reliable operation

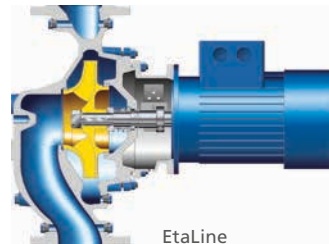
- Pump hydraulic system with low NPSH values and optimum suction characteristics
- Confined volute casing gasket
- Fluid temperature: -30 to 140 °C
- Bearing bracket lantern with intermediate bearing: no reinforced motor bearings necessary (EtaLine R)

## Variant diversity

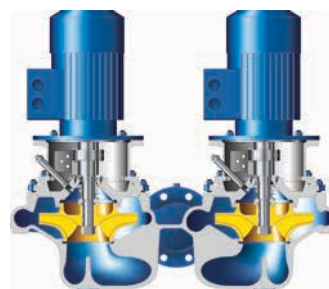
- Impeller available in grey cast iron and, optionally, in tin bronze (CC480K-GS) or stainless steel (1.4408). With these material variants, EtaLine covers all applications in heating and cooling supply systems.
- Numerous standardised mechanical seals (EN 12756) available as standard (7 versions for EtaLine / EtaLine Z, 5 versions for EtaLine R, cartridge seal in short design)
- Flanges to EN 1092-2 PN16 / PN25 (EtaLine R) as standard and (optionally) drilled to ASME B16.1, Class 125

## Ease of service

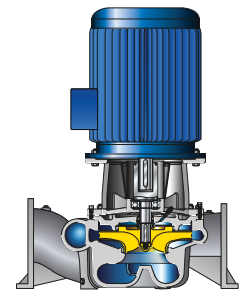
- Replaceable casing wear rings (discharge side and suction side)
- Replaceable shaft sleeves
- Service available worldwide
- Fast availability of spare parts



EtaLine



EtaLine Z



EtaLine-R

### EtaLine / EtaLine R / EtaLine Z materials

Casing	Grey cast iron EN-GJL-250 / A 48 Cl. 35B, nodular cast iron EN-GJS-400-18-LT (EtaLine R)
Casing cover	Grey cast iron EN-GJL-250 / A 48 Cl. 35B, nodular cast iron EN-GJS-400-18-LT (EtaLine R)
Impeller	Grey cast iron EN-GJL-250 / A 48 Cl. 35B, tin bronze CC480K-GS, stainless steel 1.4408
Shaft	Tempered steel C 45, stainless steel 1.4571 / 1.4057 (EtaLine R)
Drive lantern	Grey cast iron EN-GJL-250 / A 48 Cl. 35B

Technical data (50 Hz)	EtaLine	EtaLine R	EtaLine Z
Flow rate, single-pump operation	Up to 700 m <sup>3</sup> /h	Up to 1900 m <sup>3</sup> /h	Up to 602 m <sup>3</sup> /h
Flow rate, parallel operation	–	–	Up to 1095 m <sup>3</sup> /h
Head	Up to 95 m	Up to 97 m	Up to 38.5 m
Fluid temperature	-30 °C to +140 °C		
Operating pressure	Up to 16 bar	Up to 25 bar	Up to 16 bar
Nominal size	DN 32 to 200	DN 150 to 350	DN 32 to 200

\*IE5 in accordance with IEC/TS 60034-30-2 up to 15/18.5 kW (for 1500 rpm models rated 0.55 kW, 0.75 kW, 2.2 kW, 3 kW, 4 kW only: IE5 in preparation)

Technische Daten (50 Hz)	EtaLine	EtaLine R	EtaLine Z
Förderstrom Einzelbetrieb	bis 700 m <sup>3</sup> /h	bis 1900 m <sup>3</sup> /h	bis 602 m <sup>3</sup> /h
Förderstrom Parallelbetrieb	–	–	bis 1095 m <sup>3</sup> /h
Förderhöhe	bis 95 m	bis 97 m	bis 38,5 m
Fördermedientemperatur	-30 °C bis +140 °C		
Betriebsdruck	bis 16 bar	bis 25 bar	bis 16 bar
Nennweite	DN 32 bis 200	DN 150 bis 350	DN 32 bis 200