

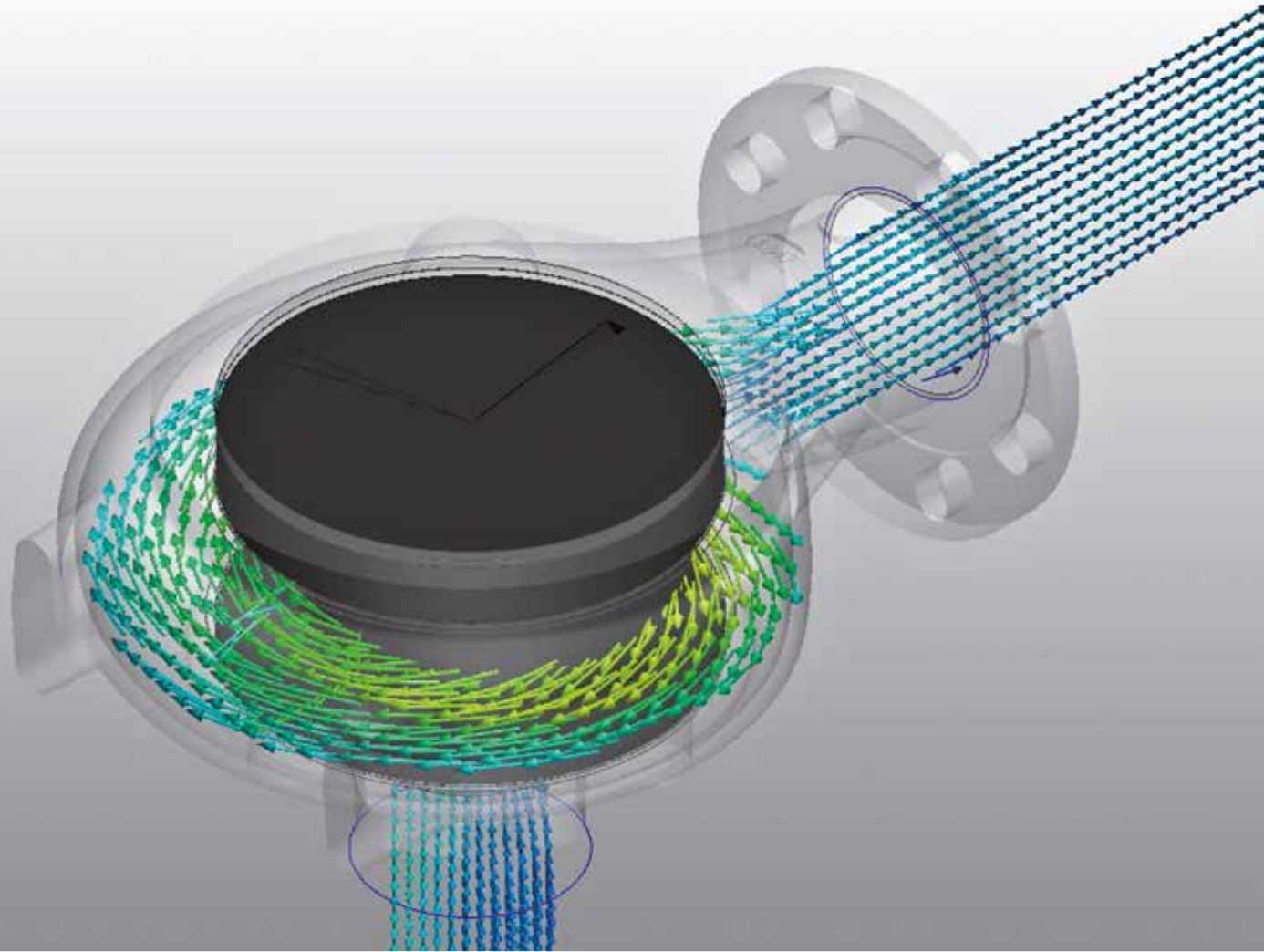
» SUPERIOR EFFICIENCY SUPERIOR PERFORMANCE

New EffTec series of submersible wastewater pumps

- › optimized hydraulics
- › efficient motor technology
- › highest overall efficiency



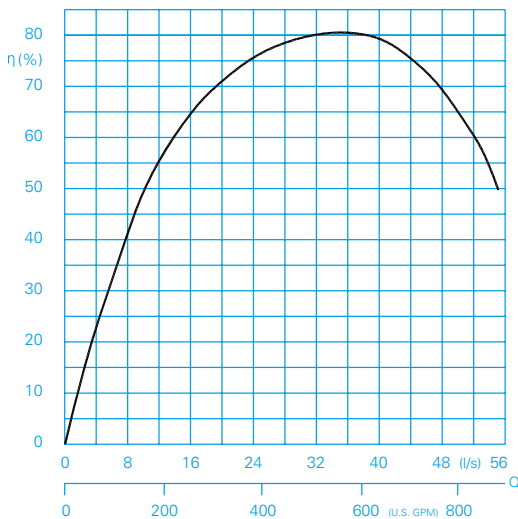
HOMA
P U M P T E C H N O L O G Y



» INNOVATIVE TECHNOLOGY - GREAT EFFICIENCY



Not only efficiency in the motors - pump hydraulics are key as well in getting the highest possible overall efficiency with consequently low energy consumption. So we developed the new EffTec series at our HOMA R&D center: the efficiency of this new generation of motors has been markedly increased to match the IE3 premium efficiency standard. The hydro-dynamically optimized pump hydraulics have also been newly designed. Along with the promise of quality "Made by HOMA", the new EffTec series sets new standards for economic efficiency.



High efficient:
The new EffTec
hydraulics

EFFTEC
SUPERIOR EFFICIENCY - SUPERIOR PERFORMANCE

» OUR KNOW-HOW = YOUR BENEFIT

Convincingly reliable:

Pumped media have changed greatly in recent years, with ever increasing solids content. In order to guarantee reliable operation, the EffTec series uses closed single-vane impellers with large free passages. The pump hydraulics were redesigned in the process, and optimized using the latest flow simulation software. The result: markedly improved efficiency, with reduced clogging hazard. In combination with our energy-efficient motors, the new EffTec series of pumps sets a trend for economic efficiency and reliability.

Innovative cooling:

All models in the EffTec series are equipped with the newly developed PermaCool system. This permanent motor cooling now gives you the option of fitting the units for submerged or drywell installation. The new design - registered for a patent - simultaneously ensures that the cooling jacket cannot be clogged with solids. Together with the low winding temperature of the EffTec motors, the PermaCool system puts a low thermal load on all components, thus ensuring their long useful lifetime.

Intelligent technology:

At your option, all the usual monitoring systems can be implemented, starting at the smallest motor size - including the HOMA VICON pump diagnosis system, which, like the EffTec series itself, represents trendsetting innovations "Made by HOMA".

PERFORMANCE THAT PERSUADES

- » high overall efficiency, low energy consumption
- » efficient motors match the IE3 premium efficiency standard
- » hydrodynamically optimized pump hydraulics with large free passages
- » the PermaCool high continuous operation (S1)
- » robust, reliable construction: Made in Germany



Innovative:
the new PermaCool motor cooling

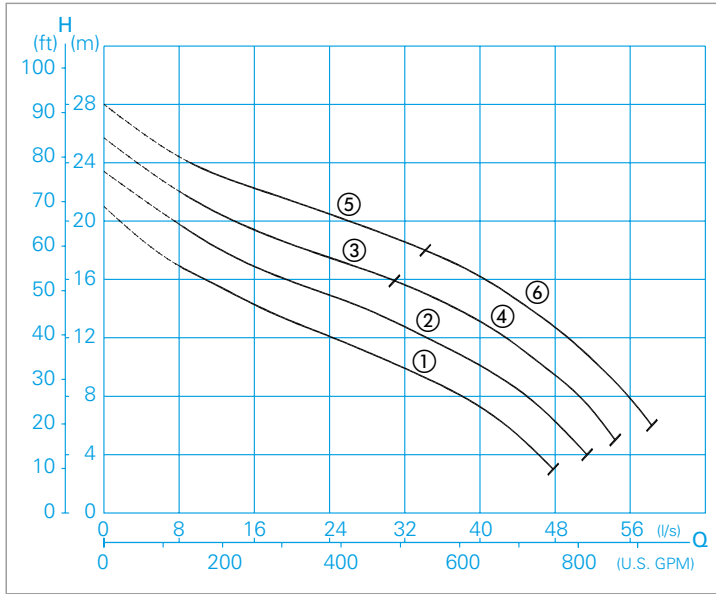


The highest standards of quality—
from development to production



» TECHNICAL DETAILS THAT CONVINC

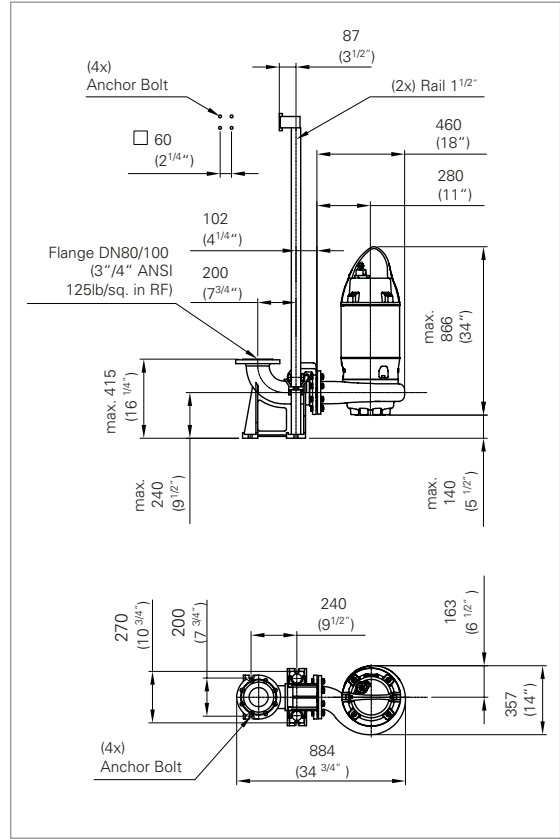
PERFORMANCE



TECHNICAL DATA

Curve No.	Pump Type	Motor-output P ₂ (kW)	Weight (kg)
1	EMS 334-200/8,3A/C	4,5	150
2	EMS 334-210/10,1A/C	7,5	166
3	EMS 334-220/8,3A/C	4,5	150
4	EMS 334-220/12,7A/C	9,5	166
5	EMS 334-230/10,1A/C	7,5	166
6	EMS 334-230/12,7A/C	9,5	166
1	EMS 434-200/8,3A/C	4,5	151
2	EMS 434-210/10,1A/C	7,5	167
3	EMS 434-220/8,3A/C	4,5	151
4	EMS 434-220/12,7A/C	9,5	167
5	EMS 434-230/10,1A/C	7,5	167
6	EMS 434-230/12,7A/C	9,5	167

DIMENSIONS MM (INCH)



MATERIALS

Motor housing	Cast Iron ASTM A48; CL 40B ¹⁾
Pump housing	Cast Iron ASTM A48; CL 40B ¹⁾
Impeller	Cast Iron ASTM A48; CL 40B ^{1) 2)}
Wear ring	Bronze ASTM B144 ¹⁾
Motor shaft	Stainless Steel AISI 430 F
Mechanical seals	Siliziumkarbide / Siliziumkarbide
Cooling jacket	Stainless Steel
Seals / O-Rings	NBR (Perbunan) ³⁾
Cable	H07RN-F (PLUS) ⁴⁾

¹⁾ also available in stainless steel ²⁾ also available in bronze

³⁾ also from FPM (viton) ⁴⁾ screened cable on request

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