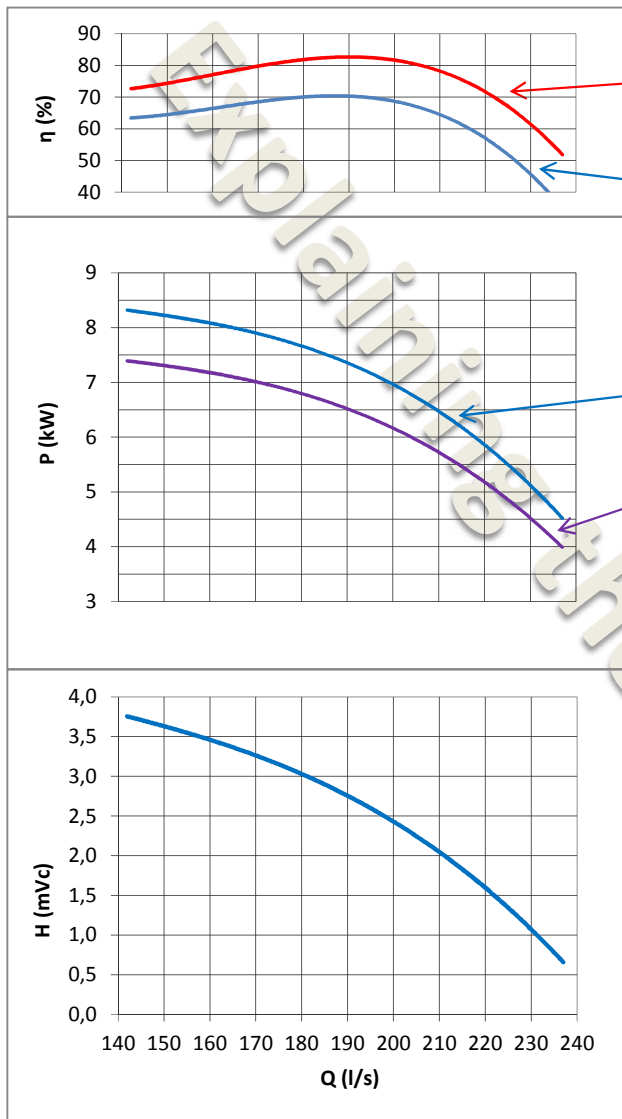




LM PUMP FRESH

There is often misunderstanding of indications / reading the pump curves. We will here try to explain how to read the pump curves from Lykkegaard.



EFFICIENCY; η (%)

This curve shows the hydraulic efficiency η_H . It is the pump efficiency, without in- and outlet losses, loss internal of the pump, motor etc.

Efficiency η_1 is tested in test plant, with internal energy loss in the pump, inlet loss, energy loss in the motor, etc. This shows the real efficiency and used in Lykkegaard pump curves.

POWER CONSUMPTION; P(kW)

Power consumption P_1 is tested in test plant, with internal power loss in the pump, inlet loss, power loss in motor, etc. This shows the real consumption and used in Lykkegaard pump curves.

Power consumption P_2 is tested in test plant, with internal power loss in the pump, inlet loss, but without the power loss in motor.

CAPACITY CURVE; H(mVc)

This curve shows how much the desired pump is capable of pumping, and at what delivery head. To find the power consumption and efficiency, just follow a straight line upward.

The data illustrated by the graphs corresponds to the Hydraulic Performance and Acceptance Tests *Grade 2* defined in ISO 9906

Pump: PRxxx/yyy
Material: Steel
Propeller no.: yyy - xx
Stages: xx

Motor data:
 Manufacture Name
 Rounds pr. minute rpm
 Frequency xx Hz
 Volt xxx V
 Power xx kW
 Amps xxx A
 Efficiency % xxx / yyy / www

Curves:
 $P_1 ; \eta_1$ (inclusive motor) ————
 η_H (Hydraulic) ————
 P_2 (exclusive motor) ————