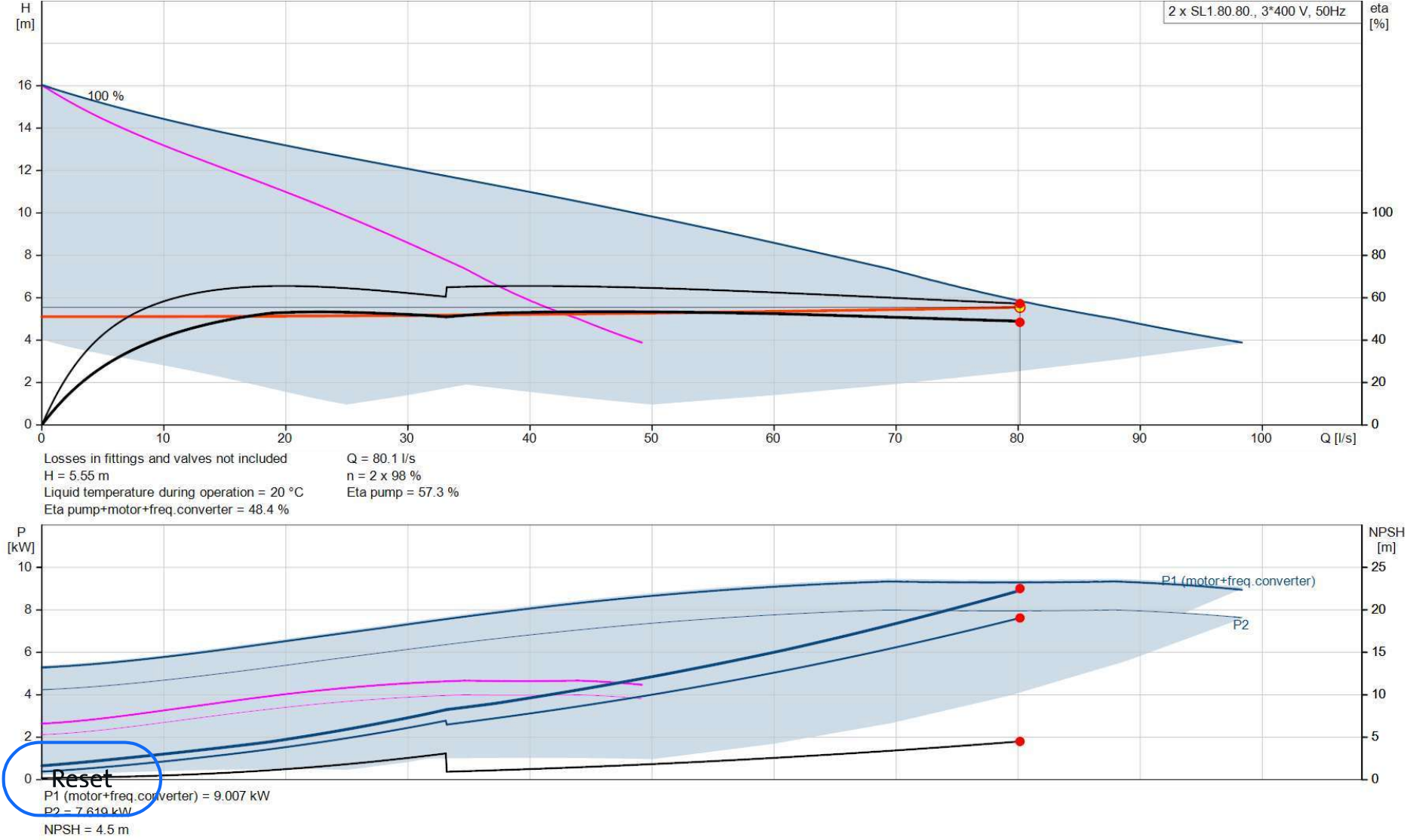




Operating point

Input:

Q

80.1

l/s

H

5.55

m

H static *

5.4

m

NPSH for switch on

m

Fluid

Curve types

- ☐ Power curves P1
- ☐ Power curves P2
- ☐ NPSH
- ☐ Eta
- ☐ Tolerance
- ☐ Curves for reduced speed
- ☐ Local control
- ☐ Show control curve
- ☐ Curve in duty point
- ☐ Square curve form
- ☐ Decrease at low flow *

8.47457627118644

%

Minimum flow *

0

%

Hydraulic layout

Type of installation

2 parallel-connected pumps

Of these: number of standby pumps

0

1

Number of running pumps

2

Variable speed

All pumps

Show advanced options

Sizing results

Type	SL1.80.80.
Flow	39.9 l/s (-0%)
H geodetic	5.4 m
H total	5.873 m (-0%)
Flow total	48769 m³/year
Max starts per hour	20
Power P1	4.625 kW
Power P2 required in the duty point	3.959 kW
Total pipe length	14 m
Total pipe volume	0.117 m³
Min. velocity (1 pump)	6 m/s
Max. velocity (all pumps)	6 m/s
NPSH required	4.461 m
Eta pump	58.0 %
Eta motor	87.4 %
Eta pump+motor	49.6 % =Eta pump * Eta motor
Eta total	49.6 % =Eta relative to the duty point
Energy consumption	1659 kWh/year
CO2 emission:	466 kg/Year
Price	On request
Life cycle cost	12730 GBP /10Years

Load profile

	1	2	3	4	5
Flow (%)	12	35	55	75	100
Flow (l/s)	4.8	14	22	30	39.9
Head (%)	92	93	94	96	100
Head (m)	5.408	5.462	5.552	5.682	5.873
P1 (kW)	0.956	1.549	2.233	3.153	4.625
Eta total (%)	26.6	48.4	53.6	53.0	49.6
Time (h/a)	455	273	136	91	46
Energy consumption (kWh/Year)	435	423	304	287	211
Quantity	1	1	1	1	1
The operation needs periodic cleaning cycles to secure the transport of sand etc.					
Controller is not included and must be appended to meet the required input.					
A VFD is needed for the intended pump operation					

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