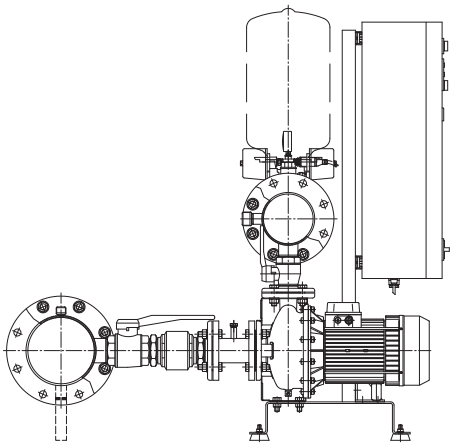
3GPE 3M

FREKVENTNE HIDRO-STANICE

INDUSTRIAL PRESSURE BOOSTING



Units with two horizontal monobloc pumps derived from EN733 (FORMER DIN 24255) with stainless steel hydraulic parts.

PUMP FEATURES

FIELD OF USE

- Maximum working pressure: 10 bar
- Temperature of the liquid: -10°C ÷ +90°C

MATERIALS

- Pump body, impeller, seal housing disc and shaft in AISI 304
- Mechanical seal in Carbon/Ceramic/NBR (3 SERIES), in SiC/SiC/FPM (3L SERIES)
- H version mechanical seal in Carbon/Ceramic/Viton

TECHNICAL DATA

- Self-ventilated 2 and 4 pole asynchronous motor
- Class of insulation F
- IP55 Protection rating
- 230±10% 50Hz single phase voltage, 230/400V ± 10% 50Hz three phase voltage up to 4 kW included, 400/690V ± 10% 5.5 kW and over three phase voltage
- Protection under the user's responsibility

TYPICAL APPLICATIONS

The base of the group is in galvanised steel as are the manifolds. The discharge manifold is set-up to gather any three vertical type membrane reservoirs. Three pressure switches and a pressure gauge are mounted on it. On suction, each electric pump has an isolating valve and a non-return valve, with the possibility of connection to an air supply unit and has another isolating valve in discharge mode. The electric control panel is sustained by a relevant support fixed to the base.

TECHNICAL FEATURES

The control panels control pump number one at variable speeds and automatically start any other pumps, allowing to adjust system pressure on constant values. These particulars allow to increase the level of comfort, minimise management costs and reduce all air pre-load accumulation reservoirs to a minimum.

The typical applications of the GPE range pressure boosters with control panels are:

- Water provisioning for condominium, school, hotel hospital distribution networks etc.
- Water provisioning for industry in general
- Irrigation of gardens, parks and sports fields

FUNCTIONING PRINCIPLES

- Functioning with PRESSURE-CONTROLLER: the unit responds to the control of the pressure transducer and the speed control via the pump number one inverter, maintaining the system pressure constant
  Double functioning possibility of every pump in AUTOMATIC, MANUAL OR pump EXCLUDED mode
- Pump motors protection against overloads, missing phase over/under voltage
- Pump protection against dry running
- Inverter protection against phase breakdowns, under/over voltage, earth faults, environment overheating
- Functioning of pump number one at variable speed via the inverter; automatic start-up via electro-mechanical contactors of the other pumps
- Automatic switch-over of functioning of pump number one and any other pumps, via electro-mechanical contactors and pressure switches, if the inverter should block
- Automatic switch-over every 24 hours of the powered pumps start-up order via electro-mechanical contactors

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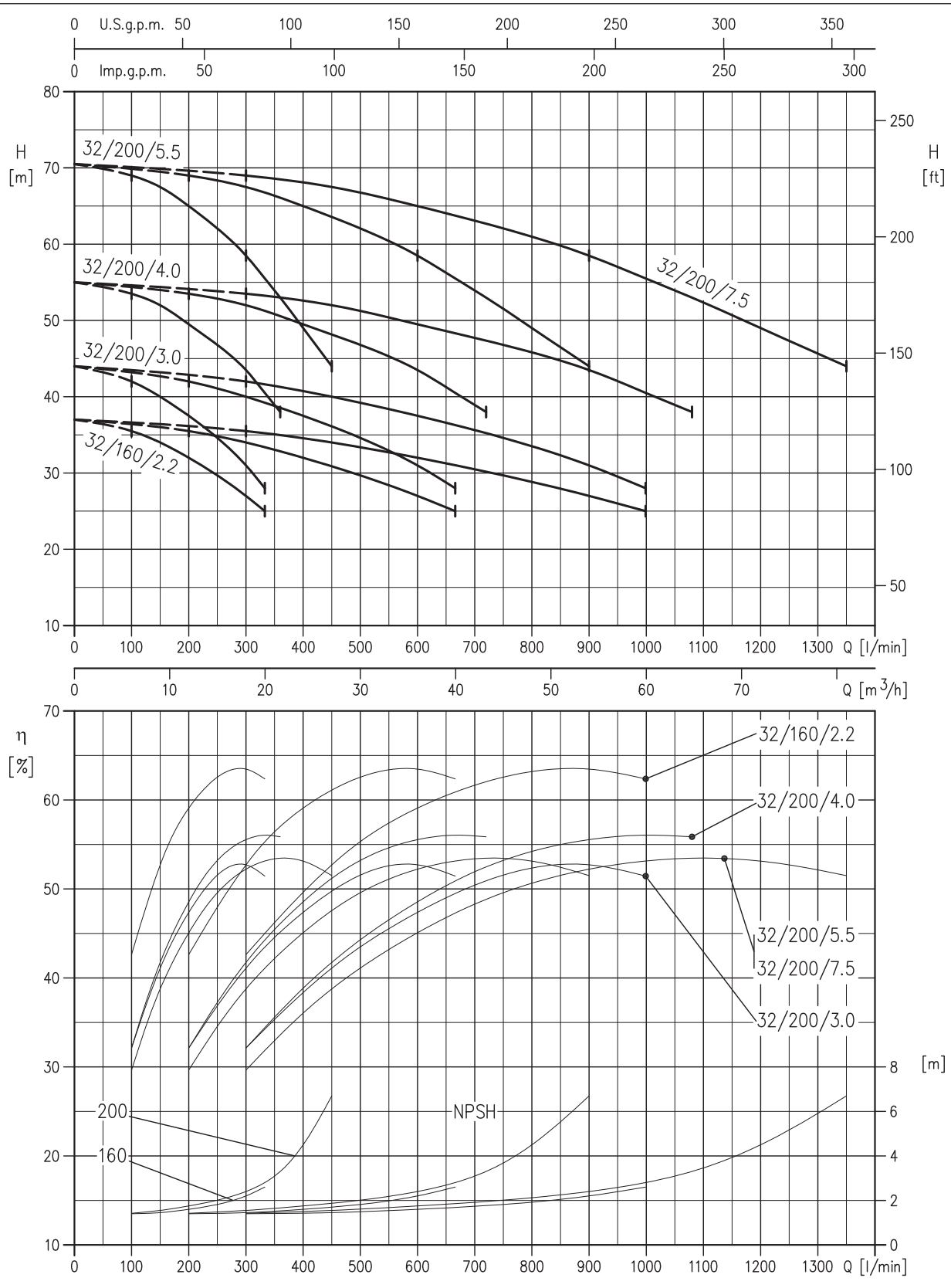
3GPE 3M 32 RANGE PERFORMANCE CURVE (according to ISO 9906 Attachment A)



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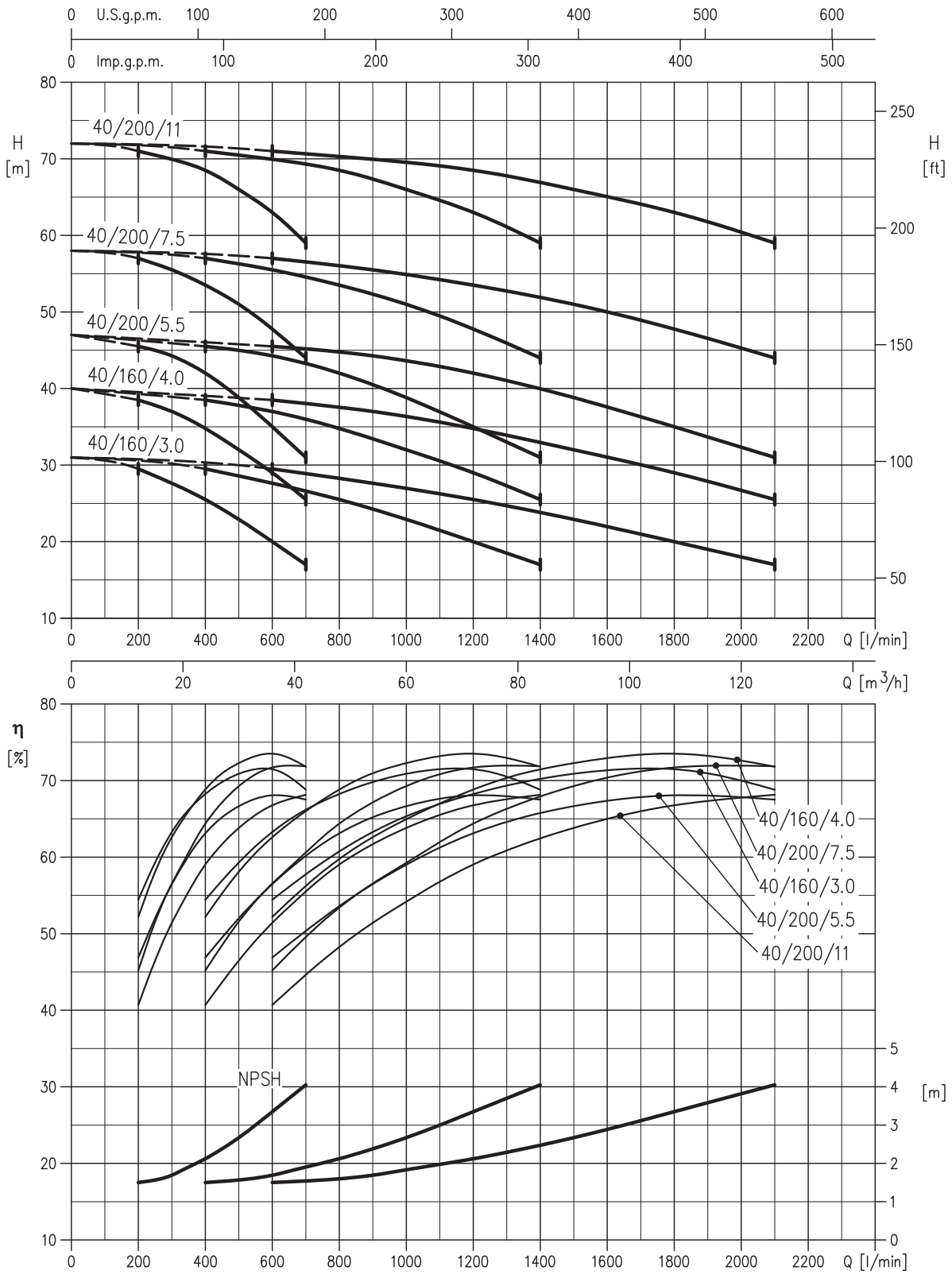
INDUSTRIAL PRESSURE BOOSTING

3GPE 3M 40 RANGE PERFORMANCE CURVE (according to ISO 9906 Attachment A)



3GPE 3M

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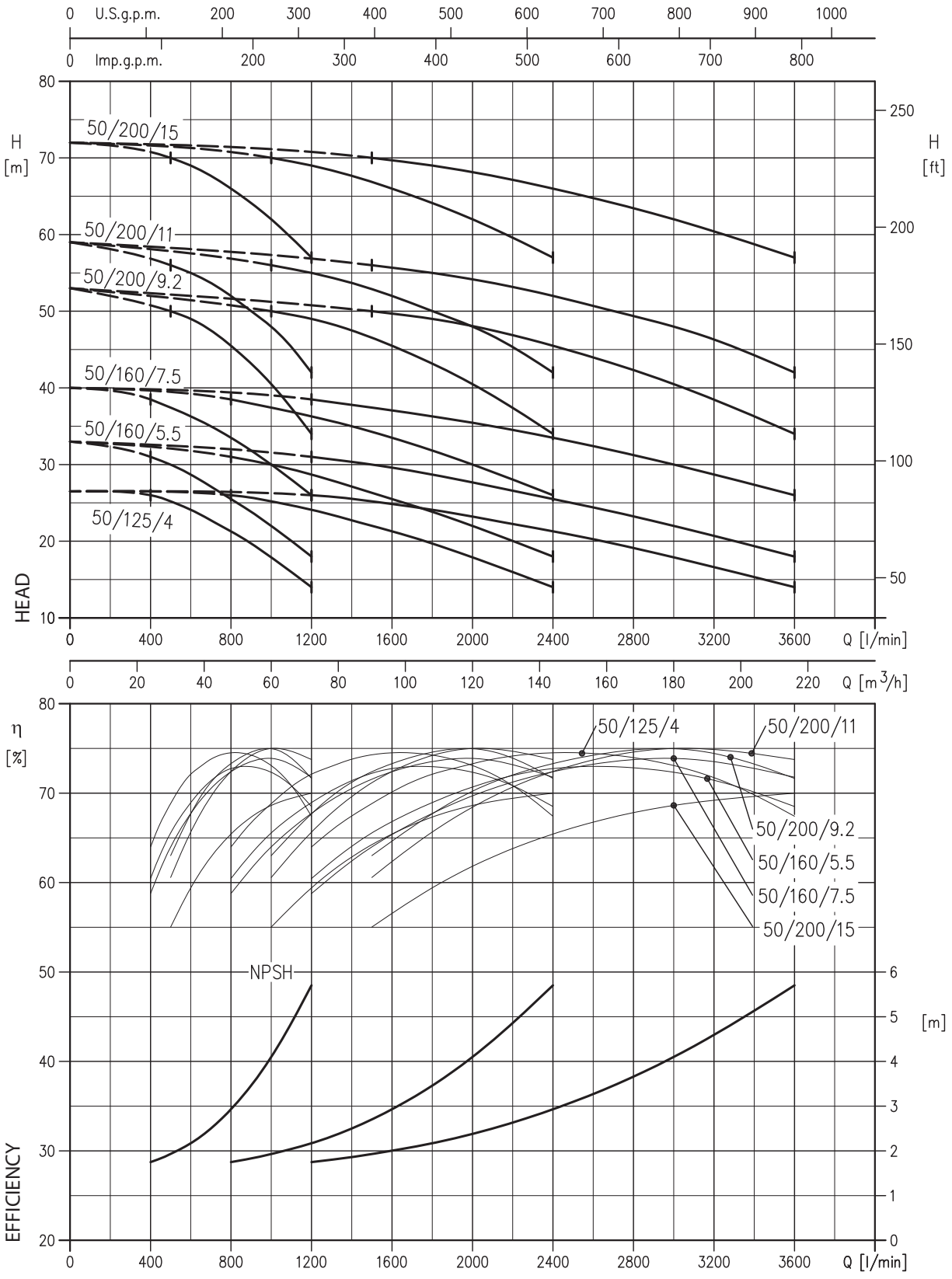
INDUSTRIAL PRESSURE BOOSTING

3GPE 3M 50 RANGE PERFORMANCE CURVE (according to ISO 9906 Attachment A)

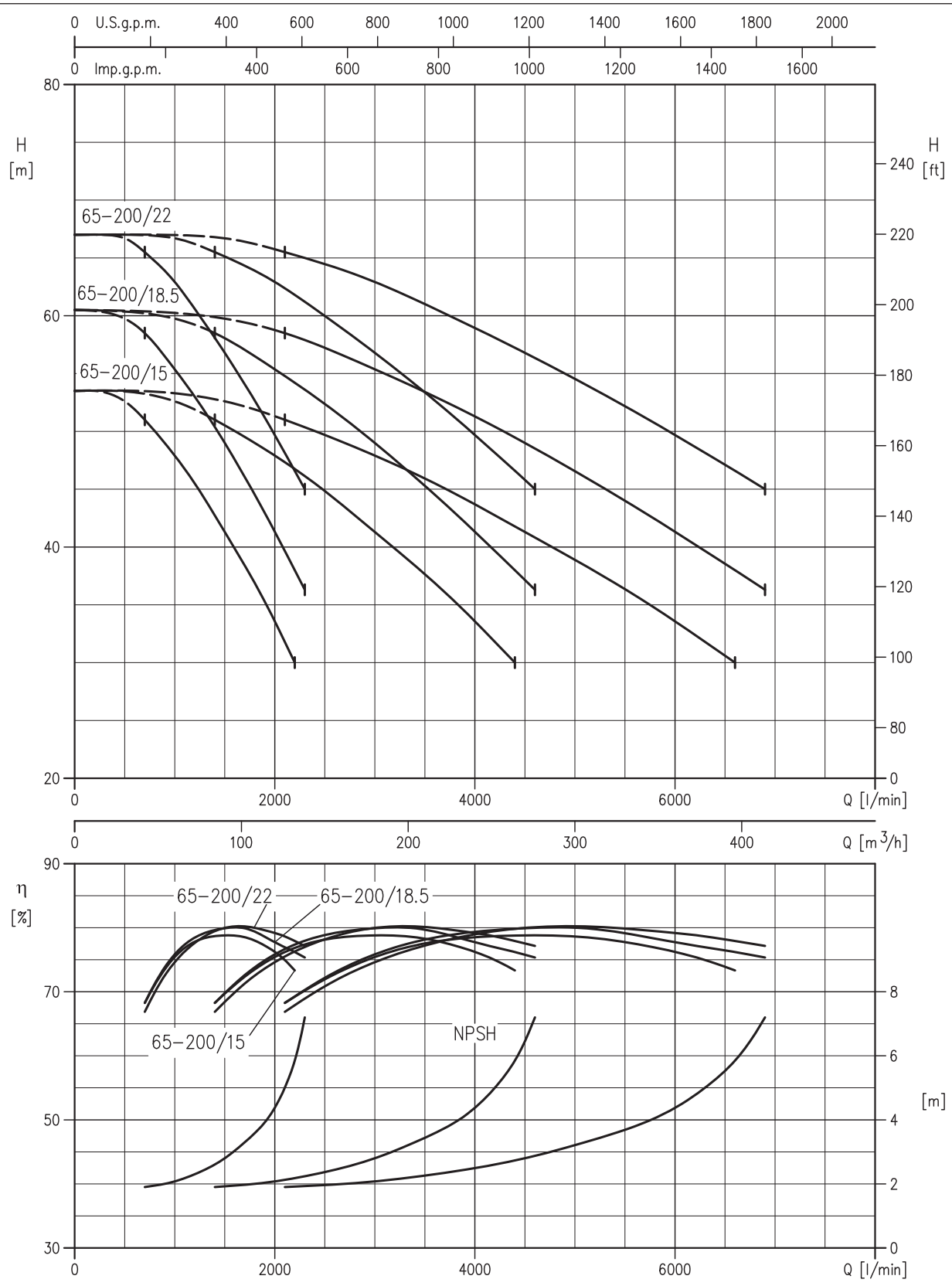


3GPE 3M

FREKVENTNE HIDRO-STANICE

INDUSTRIAL PRESSURE BOOSTING

3GPE 3M 65 RANGE PERFORMANCE CURVE (according to ISO 9906 Attachment A)



INDUSTRIAL PRESSURE BOOSTING

PERFORMANCE TABLE AND ELECTRIC DATA OF THE THREE PUMPS FUNCTIONING SIMULTANEOUSLY

Model Three phase 400V	[kW]	Max abs. [A] 400V Three phase	Q=Flow rate l/min	300	450	600	900	1000	1080	1200	1350	1500	1800	2100	2400	3000	3600
			m³/h	9	27	36	54	60	65	72	81	90	108	126	144	180	216
			H=Head [m]														
3M 32-160/2,2	2,2+2,2+2,2	14,4		35,5	34,0	32,0	27,0	25,0	-	-	-	-	-	-	-	-	-
3M 32-200/3,0	3+3+3	19,5		42,0	40,0	37,5	31,0	28,0	-	-	-	-	-	-	-	-	-
3M 32-200/4,0	4+4+4	27,6		53,5	52,0	49,5	43,5	40,5	38,0	-	-	-	-	-	-	-	-
3M 32-200/5,5	5,5+5,5+5,5	35,4		69,0	67,5	65,0	58,5	-	-	-	-	-	-	-	-	-	-
3M 32-200/7,5	7,5+7,5	47,1		69,0	67,5	65,0	58,5	55,5	53,0	49,0	44,0	-	-	-	-	-	-
3M 40-160/3,0	3+3+3	19,5		-	-	29,5	27,5	27,0	26,5	25,5	24,0	22,5	20,0	17,0	-	-	-
3M 40-160/4,0	4+4+4	27,6		-	-	38,5	37,0	36,0	35,5	34,5	33,0	32,0	29,0	25,5	-	-	-
3M 40-200/5,5	5,5+5,5+5,5	35,4		-	-	45,5	44,0	43,0	42,5	41,0	39,5	38,0	35,0	31,0	-	-	-
3M 40-200/7,5	7,5+7,5+7,5	47,1		-	-	57,0	55,5	55,0	54,5	53,5	52,5	51,0	47,5	44,0	-	-	-
3M 40-200/11	11+11+11	66		-	-	71,0	70,5	70,0	69,5	68,5	67,5	66,0	63,0	59,0	-	-	-
3M 50-125/4	4+4+4	27,6		-	-	-	-	-	-	26,0	25,5	25,0	24,0	22,5	21,5	17,9	14,0
3M 50-160/5,5	5,5+5,5+5,5	35,4		-	-	-	-	-	-	31,0	30,5	30,0	28,5	27,0	25,5	22,0	18,0
3M 50-160/7,5	7,5+7,5+7,5	47,1		-	-	-	-	-	-	38,5	38,0	37,5	36,0	35,0	33,5	30,0	26,0
3M 50-200/9,2	9,2+9,2+9,2	56,4		-	-	-	-	-	-	-	-	50,0	49,0	47,5	45,5	40,5	34,0
3M 50-200/11	11+11+11	66		-	-	-	-	-	-	-	-	56,0	55,0	54,0	52,0	48,0	42,0
3M 50-200/15	15+15+15	90		-	-	-	-	-	-	-	-	70,0	69,0	68,0	66,0	62,0	57,0

Model Three phase 400V	[kW]	Max abs. [A] 400V Three phase	Q=Flow rate l/min	1200	2700	3900	4500	5100	5700	6300	6600	6900
			m³/h	126	162	234	270	306	342	378	396	414
			H=Head [m]									
3M 65-200/15	15+15+15	90		51,0	49,0	44,0	41,5	38,4	35,3	31,8	30,0	-
3M 65-200/18,5	18,5+18,5+18,5	117		58,5	56,5	51,5	49,0	46,0	43,0	39,7	38,0	36,3
3M 65-200/22	22+22+22	127		65,5	64,0	59,5	57,0	54,0	51,0	48,0	46,5	45,0

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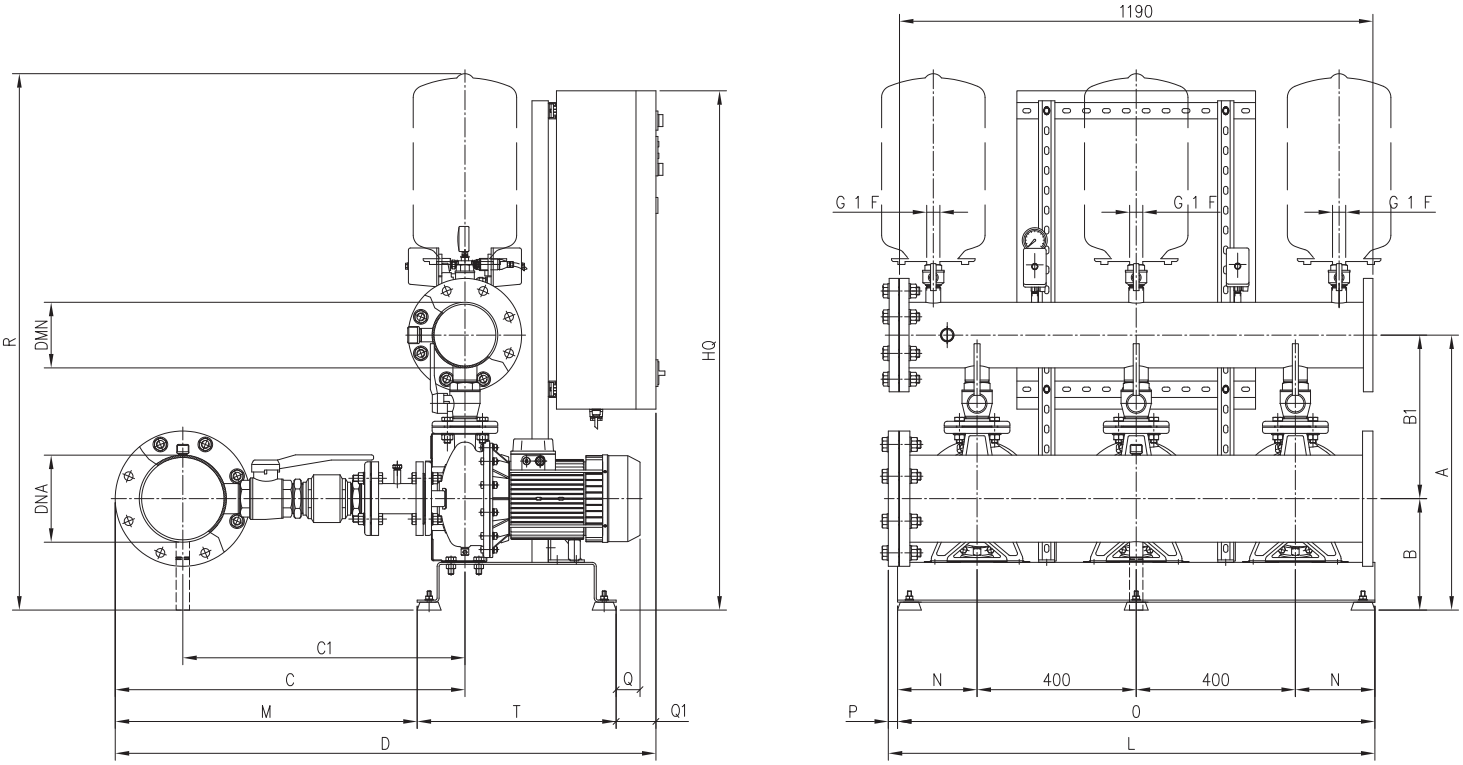
3GPE 3M DIMENSIONS



DIMENSIONS TABLE

Model	Dimensions [mm]																		Weight
	A	B	B1	C	C1	D	DNA	DNM	HQ	L	M	N	O	P	Q	Q1	R	T	[kg]
3GP(E) 3M 32-160/2.2	570	250	320	455	390	950	100	80	1200	1215	340	200	1200	15	-	110	1190	500	182,0
3GP(E) 3M 32-200/3	620	280	340	455	390	950	100	80	1200	1215	340	200	1200	15	-	111	1240	500	205,0
3GP(E) 3M 32-200/4	620	280	340	455	390	950	100	80	1200	1215	340	200	1200	15	-	112	1240	500	227,0
3GP(E) 3M 32-200/5.5	620	280	340	455	390	950	100	80	1200	1215	340	200	1200	15	-	113	1240	500	270,0
3GP(E) 3M 32-200/7.5	620	280	340	455	390	950	100	80	1200	1215	340	200	1200	15	-	114	1240	500	270,0
3GP(E) 3M 40-160/3	615	250	365	920	780	1420	150	125	1200	1220	810	200	1200	20	-	110	1260	500	292,0
3GP(E) 3M 40-160/4	615	250	365	920	780	1420	150	125	1200	1220	810	200	1200	20	-	110	1260	500	313,0
3GP(E) 3M 40-200/5.5	665	280	385	940	800	1430	150	125	1200	1220	820	200	1200	20	15	110	1310	500	397,0
3GP(E) 3M 40-200/7.5	665	280	385	940	800	1480	150	125	1200	1220	820	200	1200	20	60	160	1310	500	419,0
3GP(E) 3M 40-200/11	630	245	385	940	800	1505	150	125	1580	1380	705	290	1380	-	-	-	1275	800	468,0
3GP(E) 3M 50-125/4	645	250	390	880	710	1360	200	150	1200	1225	760	200	1200	25	-	100	1300	500	397,0
3GP(E) 3M 50-160/5.5	690	280	410	880	710	1400	200	150	1200	1225	760	200	1200	25	18	110	1350	500	430,0
3GP(E) 3M 50-160/7.5	690	280	410	880	710	1400	200	150	1200	1225	760	200	1200	25	60	110	1350	500	448,0
3GP(E) 3M 50-200/9.2	675	245	430	880	710	1595	200	150	1580	1380	765	290	1380	-	-	-	1335	800	475,0
3GP(E) 3M 50-200/11	675	245	430	880	710	1595	200	150	1580	1380	765	290	1380	-	-	-	1336	800	493,0
3GP(E) 3M 50-200/15	675	245	430	880	710	1595	200	150	1650	1380	765	290	1380	-	-	-	1337	800	581,0
3GP(E) 3M 65-200/15	950	265	685	1055	855	1755	250	200	1650	1380	955	290	1380	-	-	-	1635	800	623,0
3GP(E) 3M 65-200/18.5	950	265	685	1055	855	1755	250	200	1650	1380	955	290	1380	-	-	-	1635	800	249,0