

-  Clean water
-  Domestic use
-  Civil use



INSTALLATION AND USE

GP3A is a pre-assembled system designed to connect to water mains or a primary collection tanks. It provides water supply and pressurization and is ideal for residential, commercial, and public buildings. It's also suitable for hotels, park irrigation, as well as industrial water handling and treatment.

GP3A is compatible with clean water and aqueous solutions that do not chemically or mechanically harm the materials used and are free from abrasive or fibrous substances.

PRODUCT DESCRIPTION

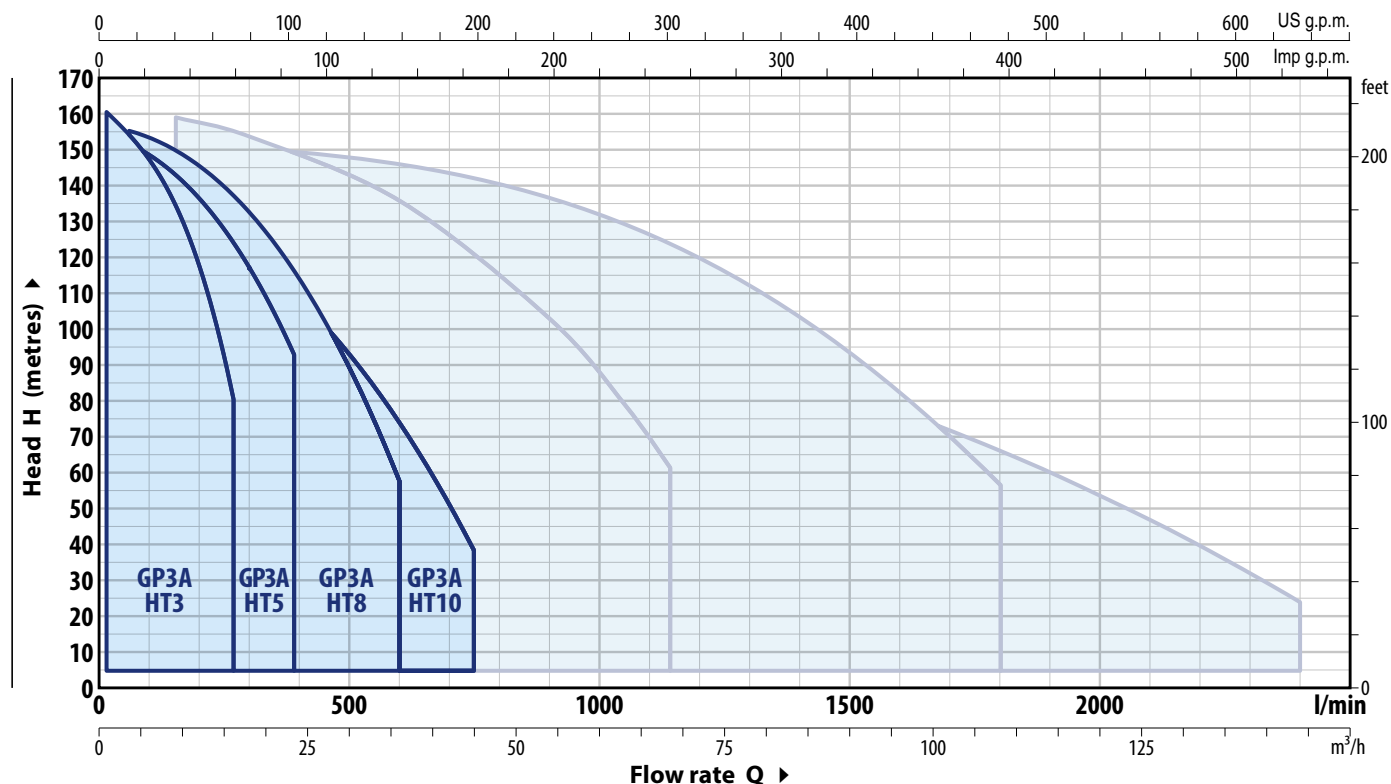
GP3A is a variable-speed pressure boosting unit **comprising three electric pumps** connected in parallel and integrated into a single assembly. The system is electronically managed by three interconnected **PRO-DG** controllers, which automatically adjust pump operation to match varying water demand, maintaining a constant system pressure under all operating conditions.

When water withdrawal reduces the system pressure, the first pump activates to meet the required flow rate, maintaining pressure at the set value. As the maximum rotation speed is reached, additional pumps start up in sequence to fulfill the system's water demand.

CONSTRUCTION FEATURES

- **PUMPS** connected in parallel via suction and discharge manifolds.
Each unit is equipped with ball valves on the suction side, and with ball valves and non-return valves on the discharge side.
- **BASE FRAME** manufactured from steel profiles and fitted with anti-vibration feet.
- **GP3A** booster sets use inverter technology to maintain constant system pressure. A pressure transducer continuously monitors system pressure and enables automatic speed control of the motors, matching pump performance to the user actual water demand. Each inverter can manage the alternating operation of pumps as needed.
- **GP3A** is designed to protect the system from:
 - dry running
 - overvoltage and undervoltage
- **CONTROL PANEL** equipped with magnetothermal motor protection circuit breakers for three-phase versions, and magnetothermal circuit breakers for single-phase versions.
- **APPLICATION LIMITS**
 - Liquid temperature between **0 °C** up to **+60 °C**
 - Ambient temperature between **-10 °C** up to **+40 °C**
 - Maximum working pressure **16 bar**
 - Continuous running duty **S1**
- **POWER SUPPLY**
 - **GP3Am**: single-phase 230V $\pm 10\%$ 50/60Hz
 - **GP3A** : three-phase 400V $\pm 10\%$ 50/60Hz

FIELD AND PERFORMANCE DATA (GP3A-HT 3, HT 5, HT 8, HT 10)



TYPE		POWER (P ₂)		Q	m³/h l/min	0	0.3	0.6	0.9	1.8	3.6	7.2	10.8	14.4	16.2
Single-phase	Three-phase	kW	HP			0	5	10	15	30	60	120	180	240	270
GP3A-HTm 3/5	GP3A-HT 3/5	3×1.1	3×1.5	H m	81	80	80	80	79	77	71	63	49.5	41	
GP3A-HTm 3/6	GP3A-HT 3/6	3×1.5	3×2		97	96	96	96	95	92	86	75	59	48	
GP3A-HTm 3/7	GP3A-HT 3/7	3×1.8	3×2.5		113	112	112	112	111	108	100	88	69	56	
–	GP3A-HT 3/8	3×2.2	3×3		130	128	128	128	126	123	114	100	79	64	
–	GP3A-HT 3/9	3×3	3×4		146	144	144	144	142	138	129	113	89	72	
–	GP3A-HT 3/10	3×3	3×4		–	160	160	160	158	154	143	126	99	80	

TYPE		POWER (P ₂)		Q	m³/h l/min	0	0.3	0.6	0.9	1.8	3.6	7.2	10.8	14.4	16.2	18	23.4
Single-phase	Three-phase	kW	HP			0	5	10	15	30	60	120	180	240	270	300	390
GP3A-HTm 5/3	GP3A-HT 5/3	3×1.1	3×1.5	H m	51.5	51.5	51.5	51.5	51	50.5	49	46.5	43	41	39	31	
GP3A-HTm 5/4	GP3A-HT 5/4	3×1.5	3×2		68.5	68.5	68.5	68.5	68	67	65	62	57.5	55	52	41	
GP3A-HTm 5/5	GP3A-HT 5/5	3×1.8	3×2.5		86	85	85	85	85	84	81	77	72	68.5	65	51.5	
GP3A-HTm 5/6	GP3A-HT 5/6	3×2.2	3×3		103	103	103	103	102	101	98	93	86	82	78	62	
–	GP3A-HT 5/7	3×3	3×4		120	120	120	120	119	118	114	108	101	96	91	72	
–	GP3A-HT 5/8	3×3	3×4		137	137	137	137	136	134	130	124	115	110	104	82	
–	GP3A-HT 5/9	3×4	3×5.5		154	154	154	154	153	151	146	139	129	124	117	93	

TYPE		POWER (P ₂)		Q	m³/h	0	1.2	2.4	3.6	7.2	10.8	14.4	18	21.6	25.2	28.8	32.4	36
Single-phase	Three-phase	kW	HP		l/min	0	20	40	60	120	180	240	300	360	420	480	540	600
GP3A-HTm 8/3	GP3A-HT 8/3	3×1.1	3×1.5	H m	47	46.5	46.5	46.5	45.5	44	42	39.5	36.5	32.5	28	23.1	17	
GP3A-HTm 8/4	GP3A-HT 8/4	3×1.5	3×2		62.5	62	62	62	60.5	58.5	56	53	48.5	43.5	37.5	31	23	
GP3A-HTm 8/5	GP3A-HT 8/5	3×1.8	3×2.5		78	77.5	77.5	77.5	76	73	70	66	61	54.5	47	38.5	28.5	
GP3A-HTm 8/6	GP3A-HT 8/6	3×2.2	3×3		94	93	93	93	91	88	84	79	73	65.5	56.5	46	34.5	
–	GP3A-HT 8/7	3×3	3×4		109	108	108	108	106	103	98	92	85	76	66	54	40	
–	GP3A-HT 8/8	3×4	3×5.5		125	124	124	124	121	117	112	106	97	87	75	61.5	45.5	
–	GP3A-HT 8/9	3×4	3×5.5		141	139	139	139	136	132	126	119	109	98	85	69	51.5	
–	GP3A-HT 8/10	3×5.5	3×7.5		156	155	155	155	152	147	140	132	122	109	94	77	57	

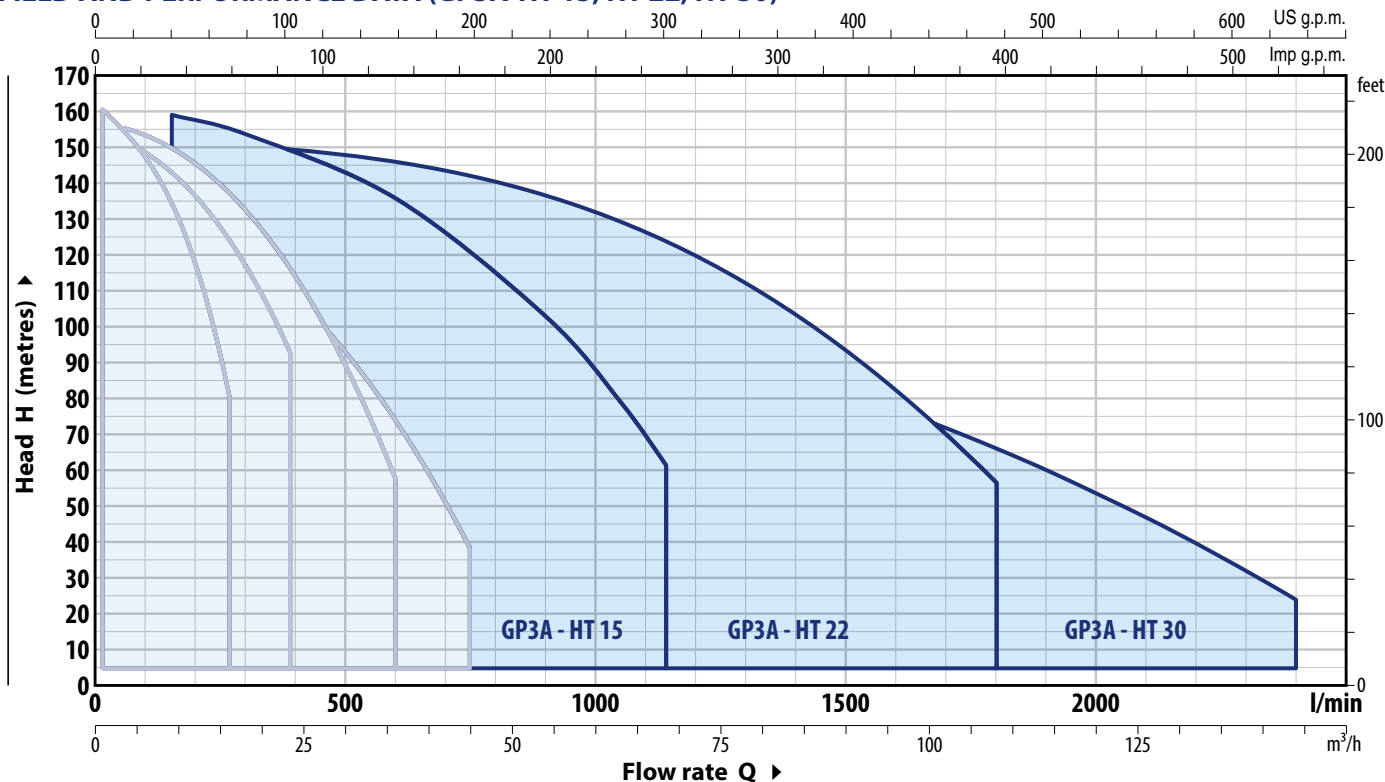
TYPE		POWER (P ₂)		Q	m³/h l/min	0	1.8	3.6	5.4	9	10.8	14.4	21.6	27	30.6	36	39.6	45
Single-phase	Three-phase	kW	HP			0	30	60	90	150	180	240	360	450	510	600	660	750
GP3A-HTm 10/3	GP3A-HT 10/3	3×1.5	3×2	H m	47	45.5	45.5	45.5	44	43.5	42	38	33.5	30.5	24.7	20.3	13	
GP3A-HTm 10/4	GP3A-HT 10/4	3×1.8	3×2.5		62	61	61	61	59	58	56	50.5	45	40.5	33	27	18	
GP3A-HTm 10/5	GP3A-HT 10/5	3×2.2	3×3		77	75.5	75.5	75.5	74	73	70	63	56	50.5	41	34	21.5	
–	GP3A-HT 10/6	3×3	3×4		93	91	91	91	88	87	84	76	67.5	61	49.5	40.5	26	
–	GP3A-HT 10/7	3×3	3×4		108	106	106	106	103	102	98	88	79	71	57.5	47.5	30	
–	GP3A-HT 10/8	3×4	3×5.5		124	121	121	121	118	116	112	101	90	81	66	54.5	34.5	
–	GP3A-HT 10/9	3×4	3×5.5		139	136	136	136	133	131	126	113	101	91	74	61	38.5	

Q = Flow rate H = Total manometric head

✳ The data shown in the diagram and tables indicate performance with 3 pumps in operation

GP3A - HT

FIELD AND PERFORMANCE DATA (GP3A-HT 15, HT 22, HT 30)



TYPE	POWER (P ₂)		Q	m ³ /h	0	3	6	9	13.5	18	27	36	54	63	68.4
Three-phase	kW	HP		l/min	0	50	100	150	225	300	450	600	900	1050	1140
GP3A-HT 15/2R	3×2.2	3×3	H m	44	43	43	43	42.5	41.5	39.5	36.5	27.5	20.5		
GP3A-HT 15/3R	3×3	3×4		64.5	62.5	62.5	62.5	61.5	60.5	57	52	37.5	27		
GP3A-HT 15/3	3×4	3×5.5		72	70	70	70	69	67.5	64.5	59.5	45	34.5	27	
GP3A-HT 15/4	3×5.5	3×7.5		96	93	93	93	92	90.5	86	79.5	60.5	46	36	
GP3A-HT 15/5	3×7.5	3×10		120	117	117	117	115	113	107.5	99.5	75.5	58	45	
GP3A-HT 15/6	3×9.2	3×12.5		140	137	137	137	134.5	132	125.5	116.5	88	67.5	53	
GP3A-HT 15/7	3×9.2	3×12.5		–	160	160	160	157	154	146.5	136	103	79	61.5	

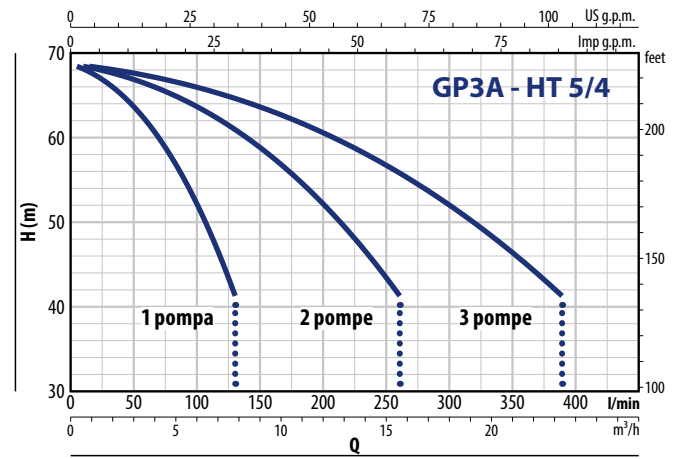
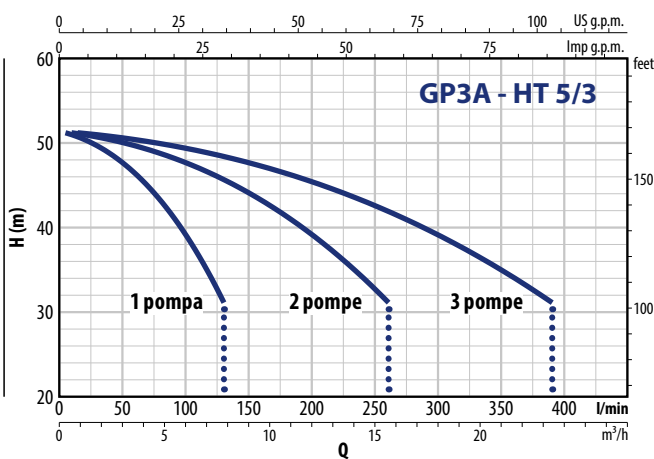
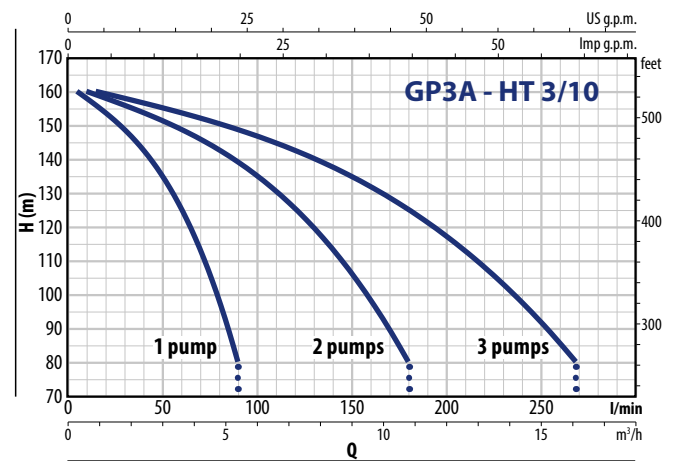
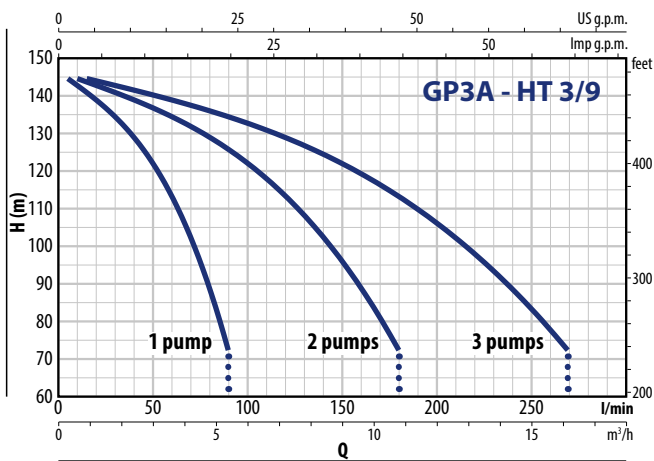
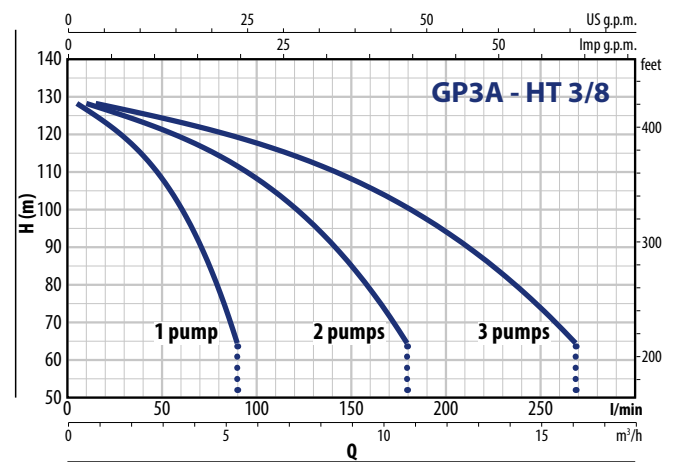
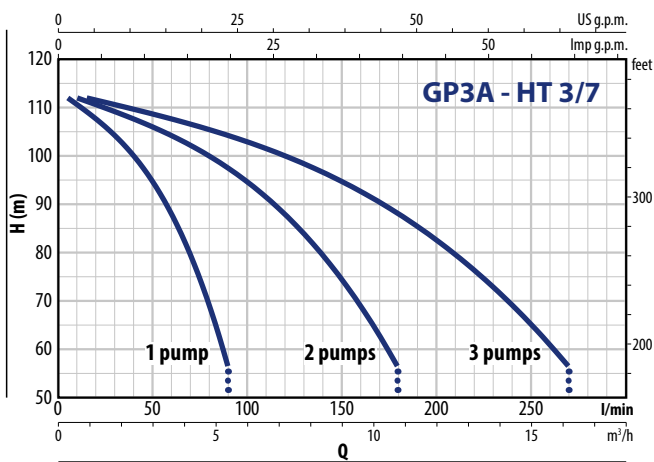
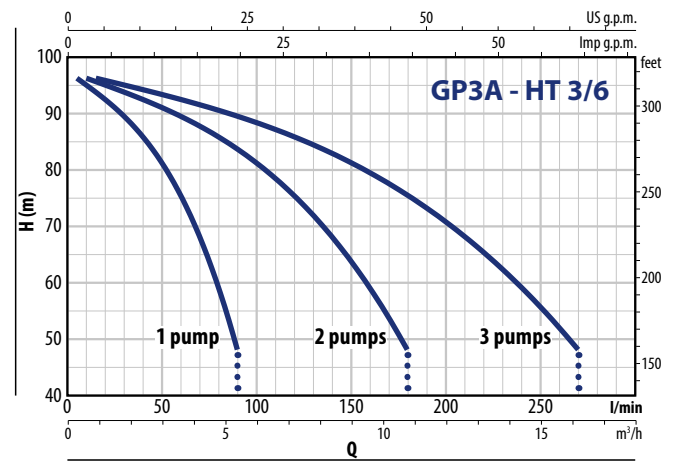
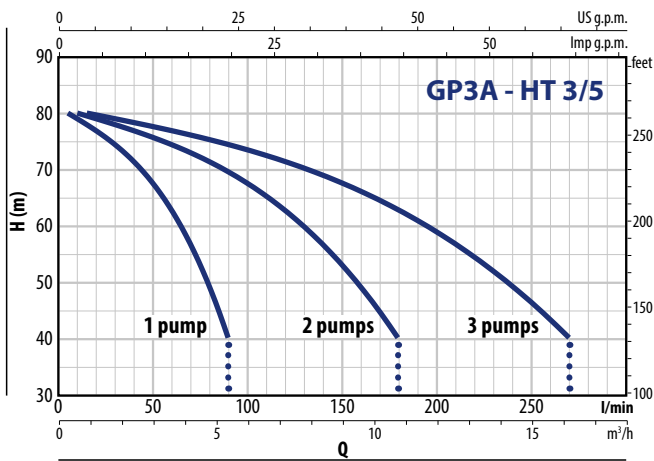
TYPE	POWER (P ₂)		Q	m ³ /h	0	6	12	18	36	54	63	72	90	108
Three-phase	kW	HP		l/min	0	100	200	300	600	900	1050	1200	1500	1800
GP3A-HT 22/2	3×3	3×4	H m		39	39	39	39	38	35.5	33.5	31.5	25.4	17.5
GP3A-HT 22/3	3×4	3×5.5			59	58.5	58.5	58.5	56.5	53	50.5	47	38	26
GP3A-HT 22/4	3×5.5	3×7.5			78	78	78	78	76	71	67	62.5	51	34.5
GP3A-HT 22/5	3×7.5	3×10			98	97	97	97	95	88	84	78	63.5	43
GP3A-HT 22/6	3×9.2	3×12.5			118	117	117	117	113	106	101	94	76	52
GP3A-HT 22/7	3×11	3×15			137	136	136	136	132	124	118	110	89	60.5
GP3A-HT 22/8	3×15	3×20			157	156	156	156	151	142	134	125	102	69

TYPE	POWER (P ₂)		Q ^{m³/h} l/min	0	9	18	36	54	72	90	108	126	135
Three-phase	kW	HP		0	150	300	600	900	1200	1500	1800	2100	2250
GP3A-HT 30/2R	3×3	3×4	H m	35	34	34	33	31	28	23.5	17.5	10	
GP3A-HT 30/2	3×4	3×5.5		40	38.5	38.5	37	35.5	32.5	28	22	13.5	8
GP3A-HT 30/3	3×5.5	3×7.5		60	58	58	56	53	48.5	42	33	20	12
GP3A-HT 30/4	3×7.5	3×10		80	77	77	74.5	70.5	64.5	56	44	26.5	16
GP3A-HT 30/5	3×9.2	3×12.5		100	96.5	96.5	93	88	81	70	54.5	33.5	20
GP3A-HT 30/6	3×11	3×15		120	116	116	111.5	106	97	84	65.5	40	24.5

Q = Flow rate H = Total manometric head

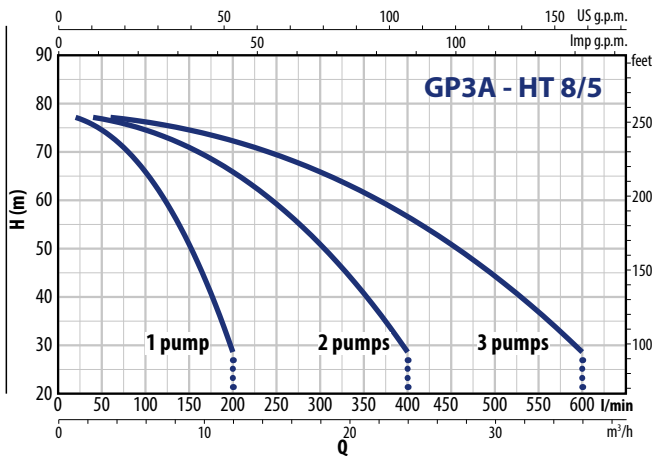
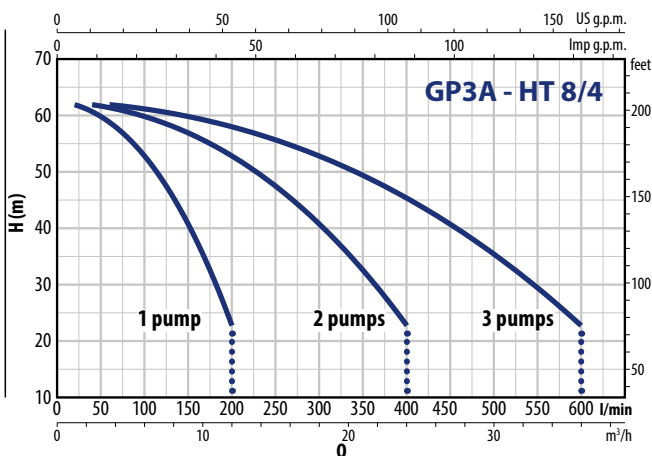
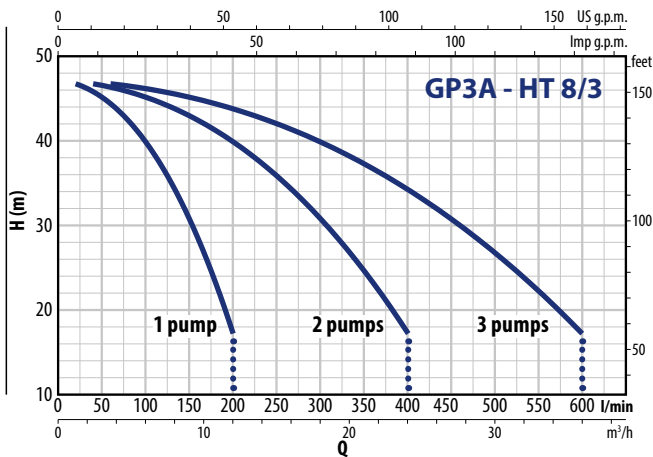
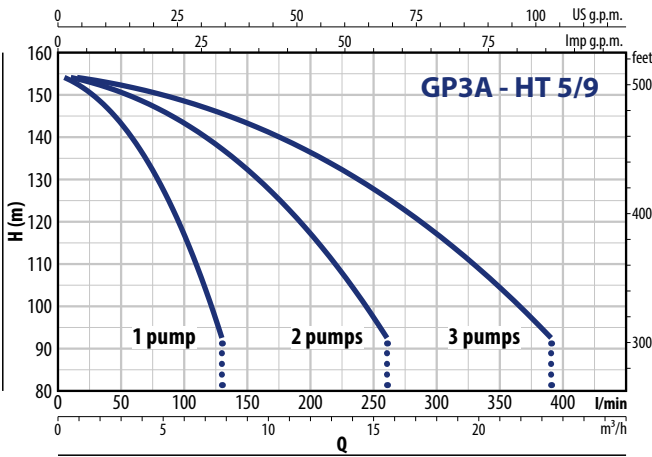
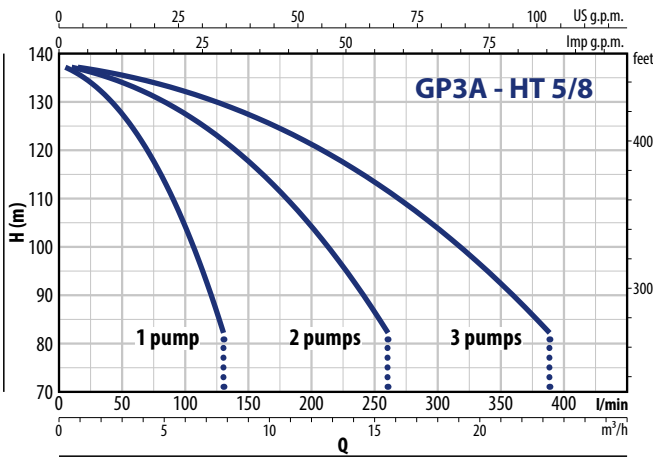
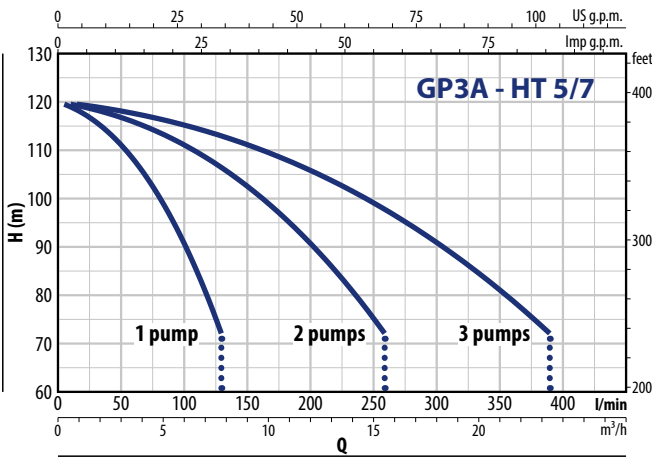
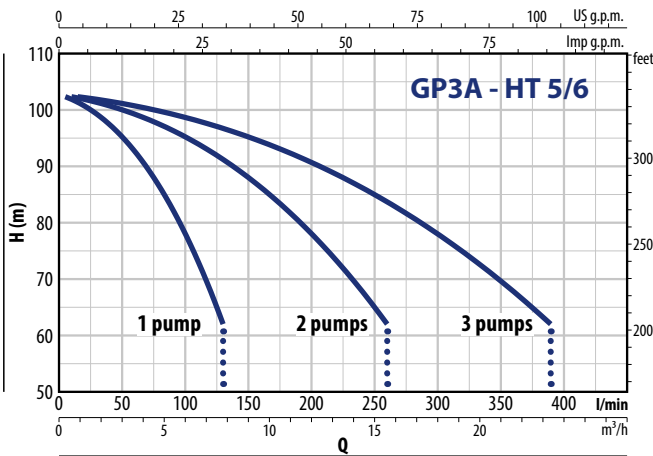
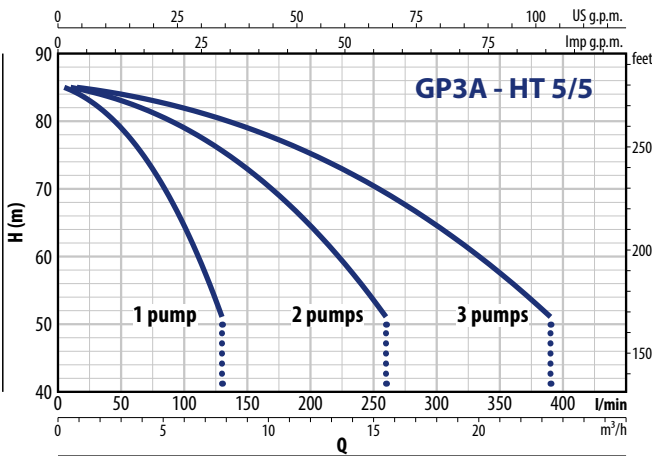
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PERFORMANCE CURVES

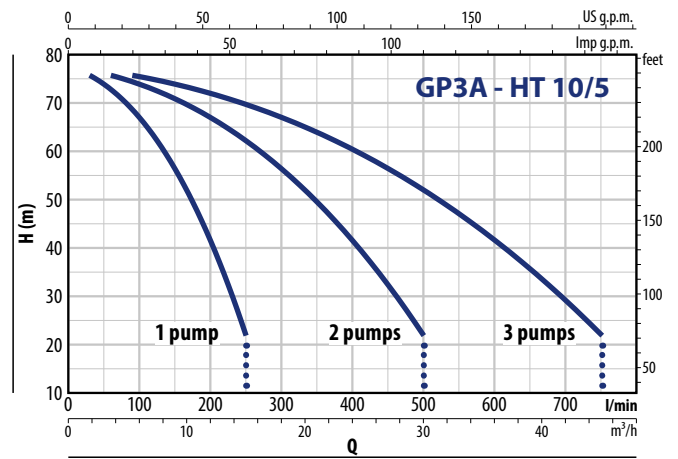
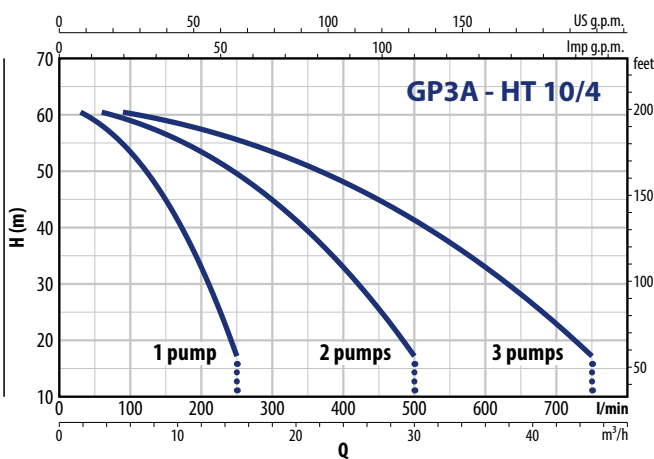
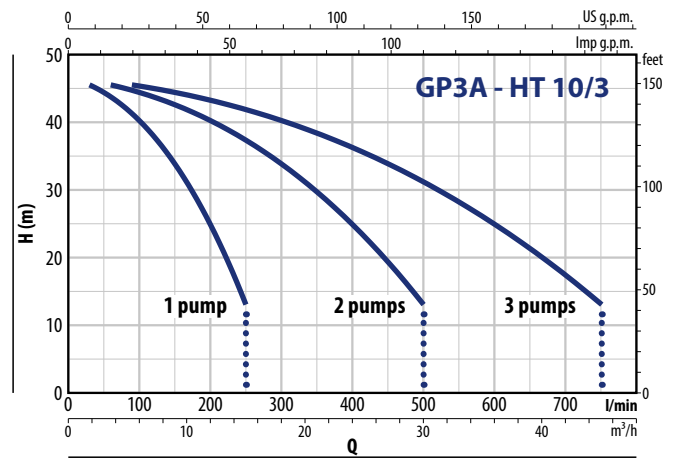
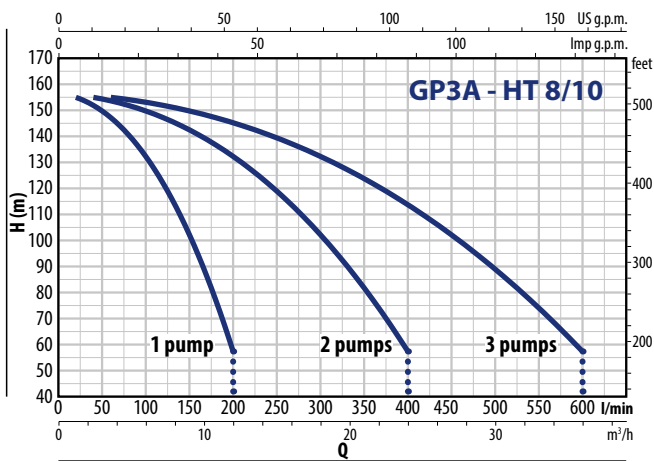
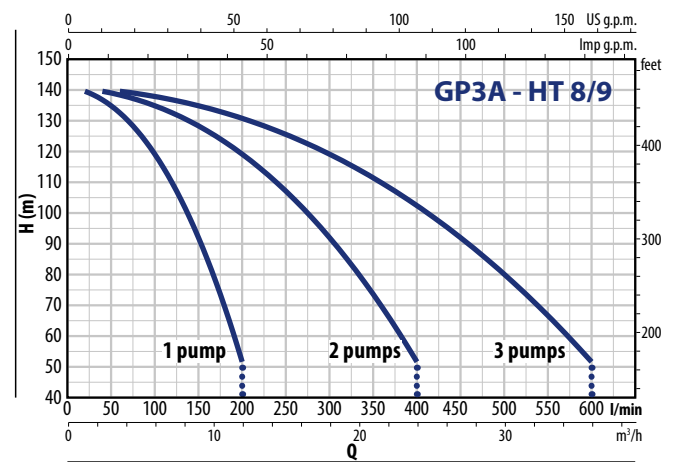
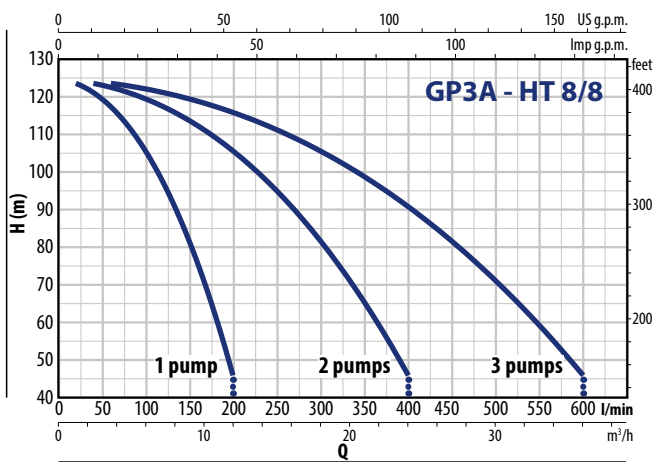
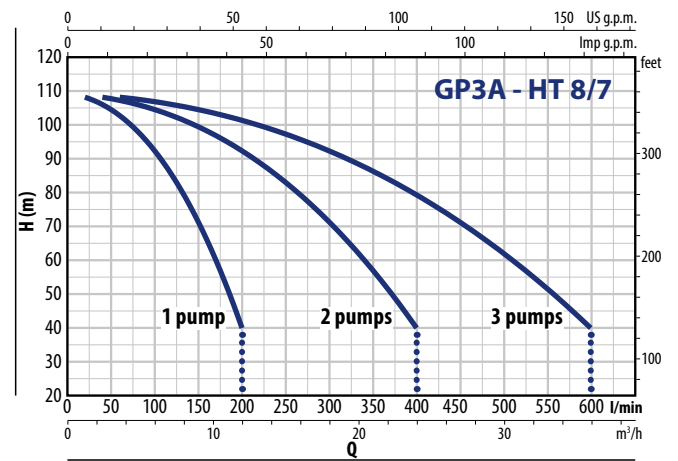
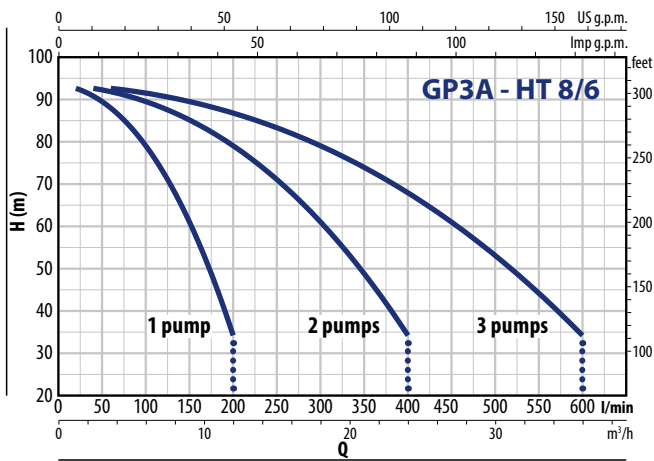


GP3A - HT

PERFORMANCE CURVES

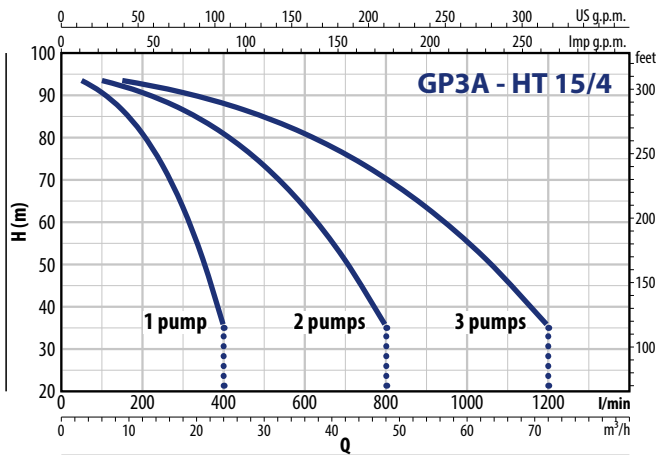
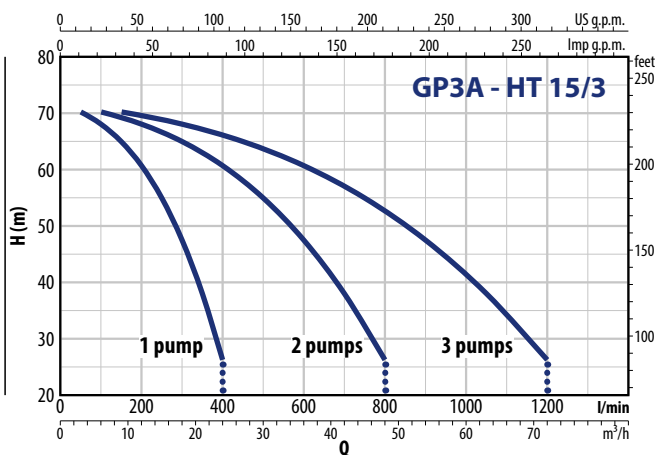
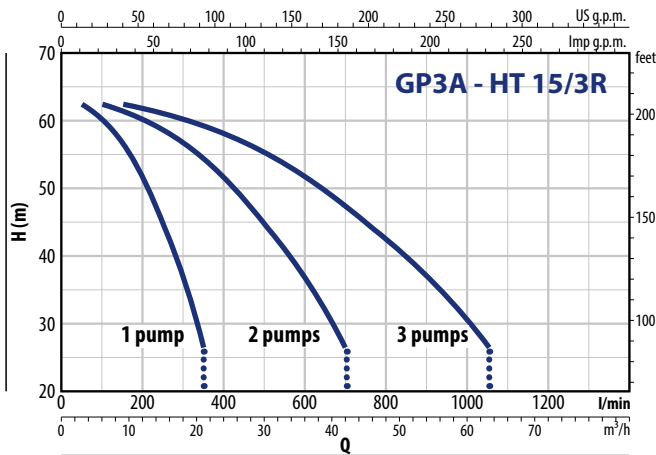
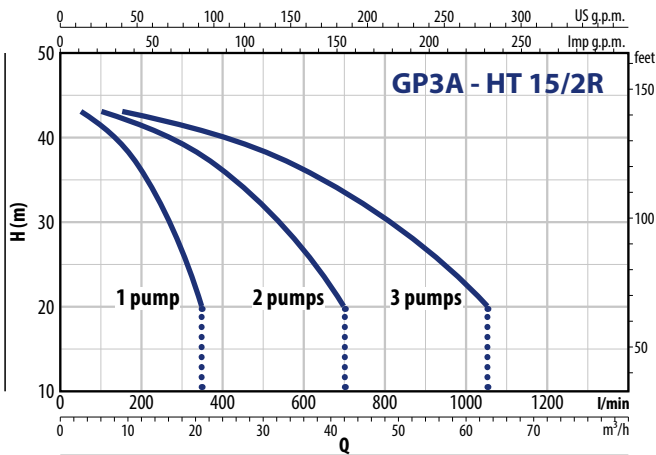
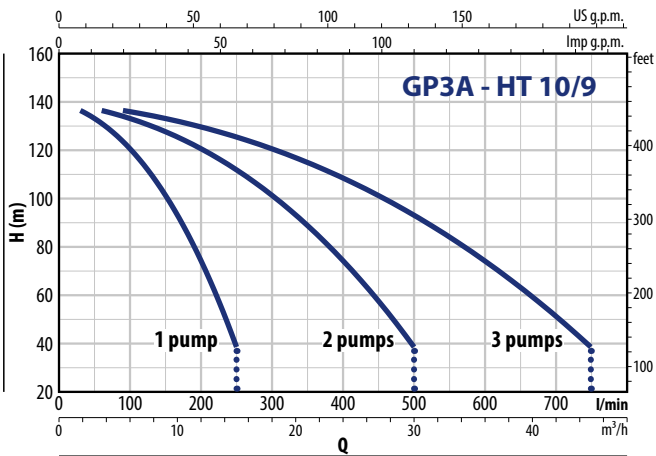
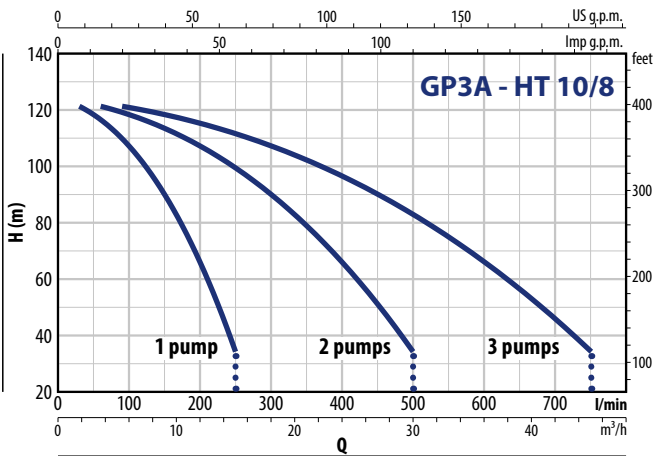
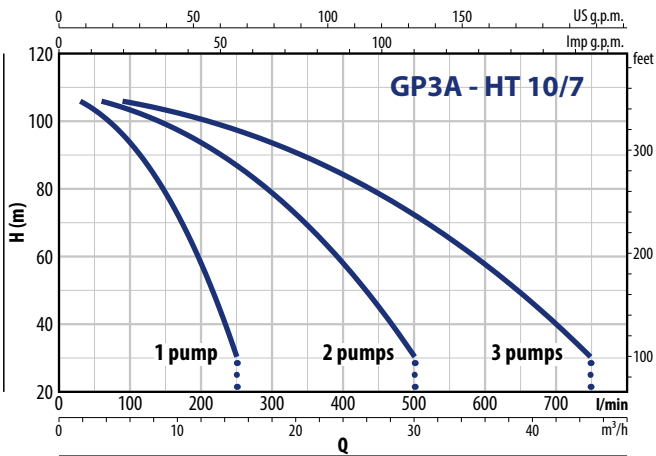
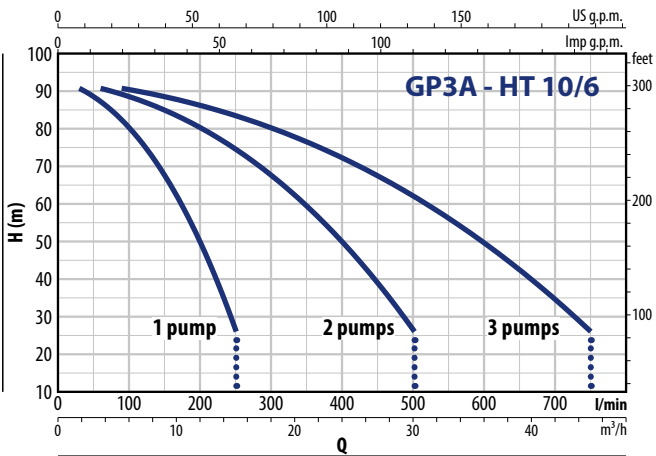


PERFORMANCE CURVES

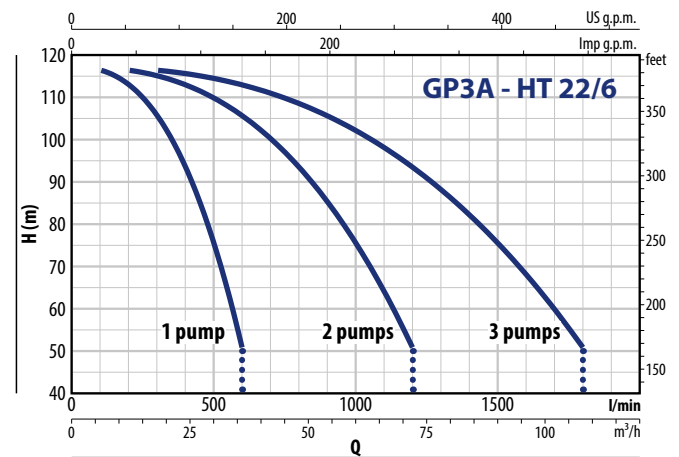
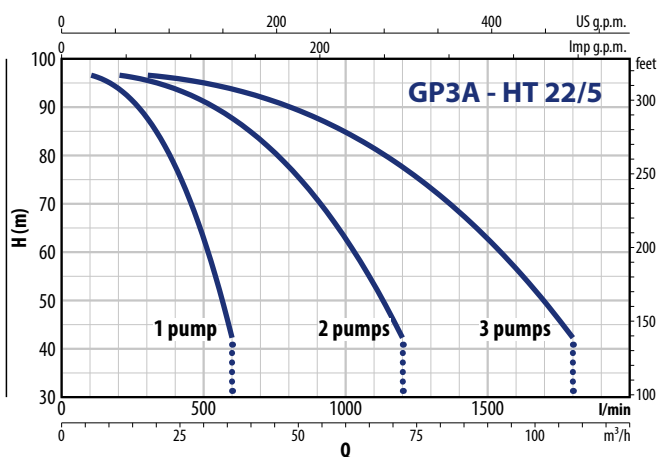
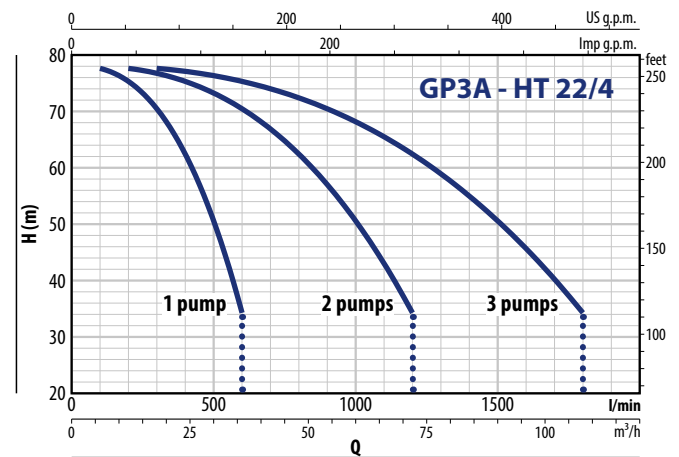
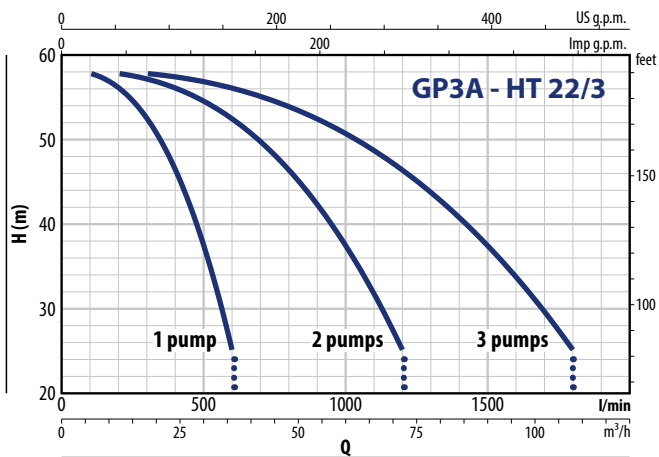
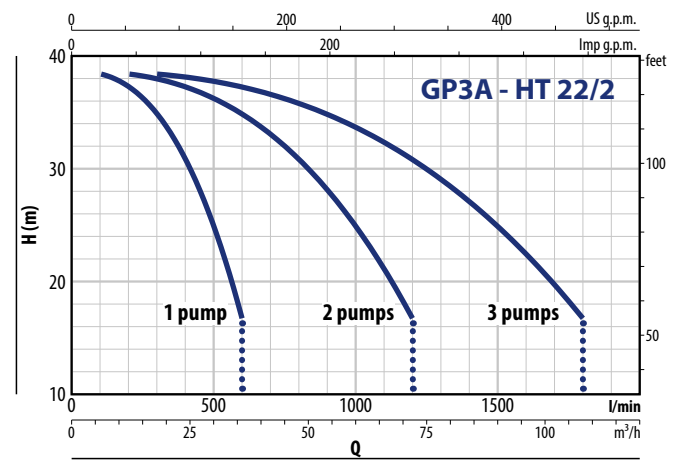
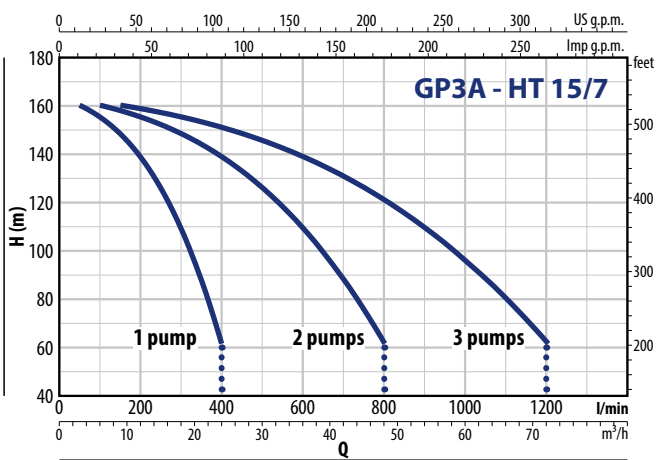
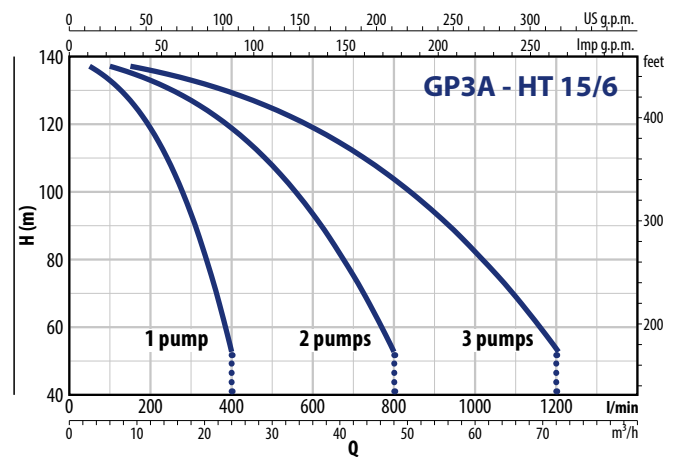
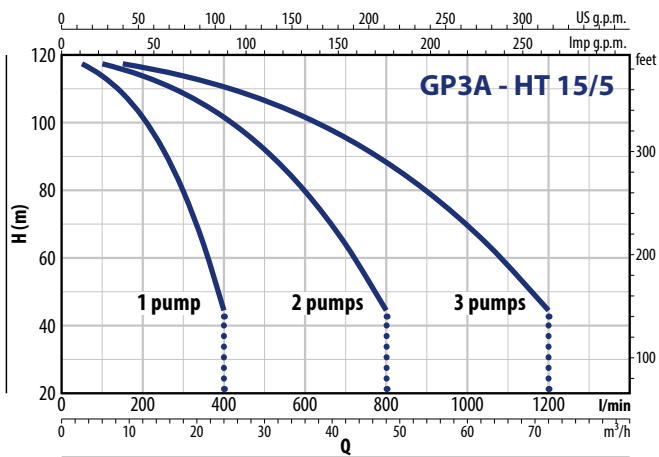


GP3A - HT

PERFORMANCE CURVES

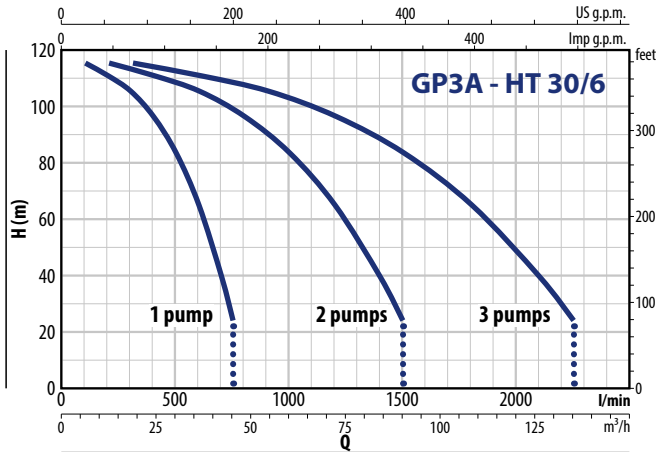
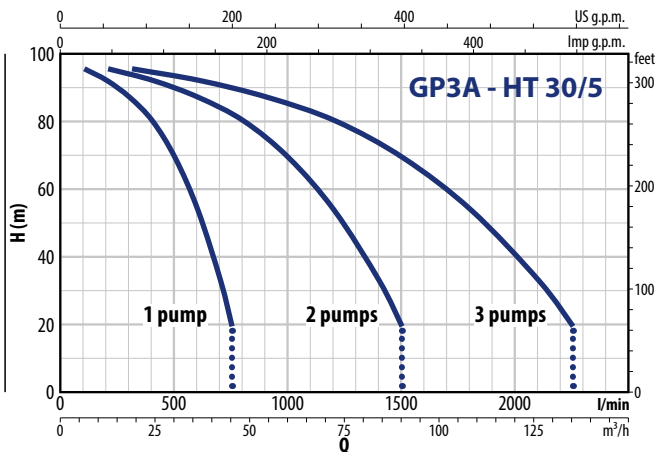
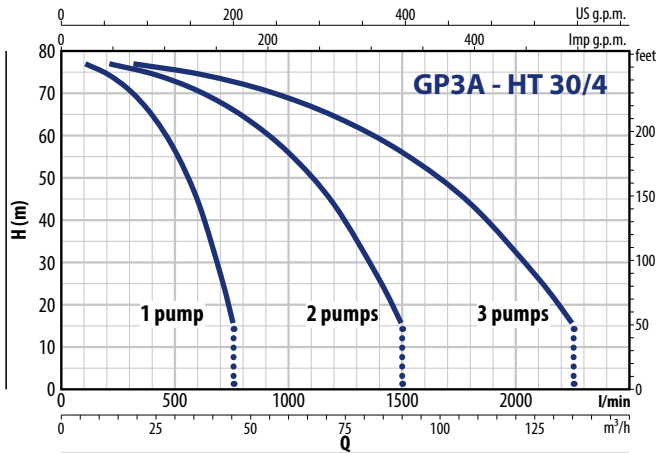
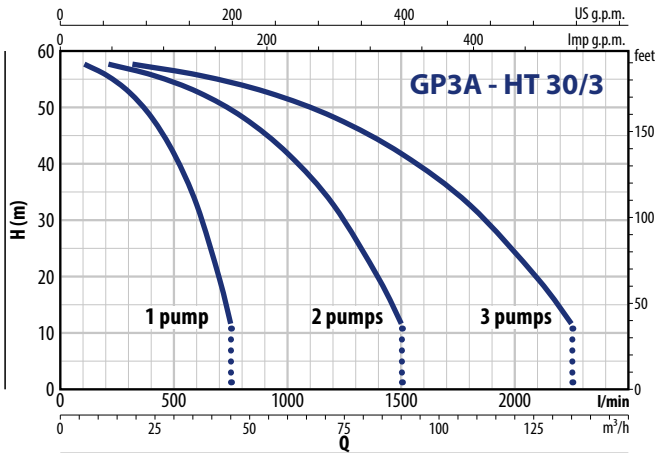
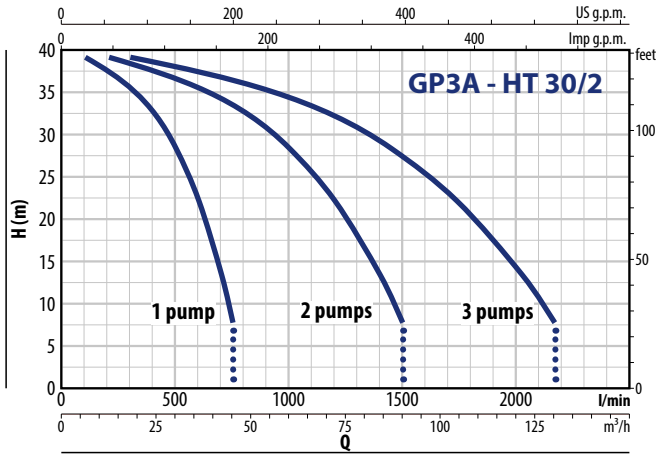
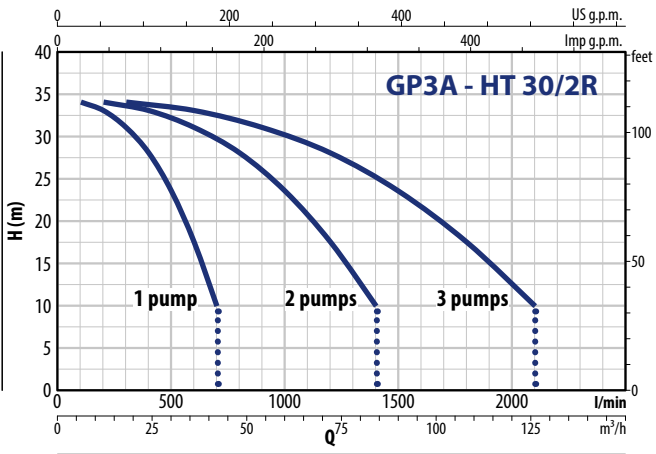
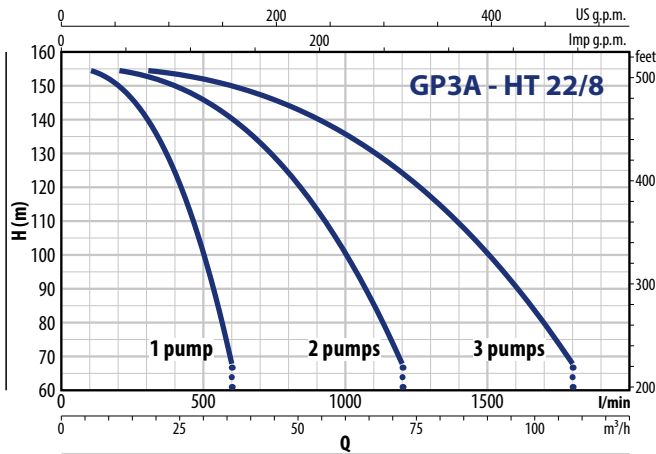
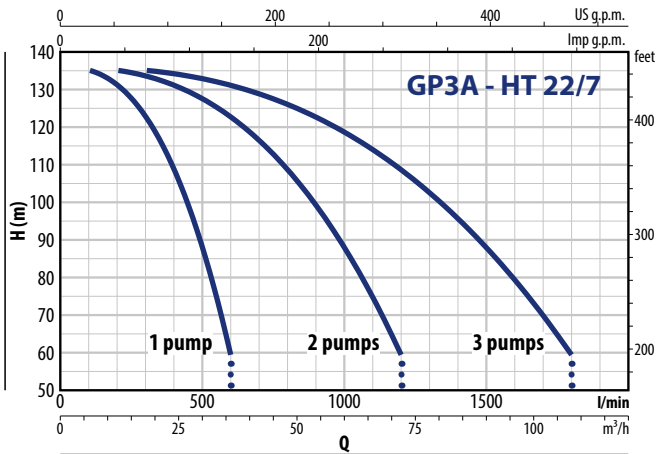


PERFORMANCE CURVES



GP3A - HT

PERFORMANCE CURVES



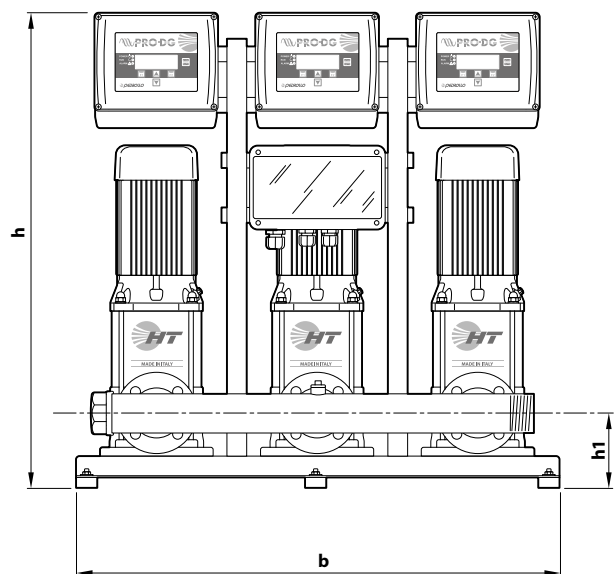
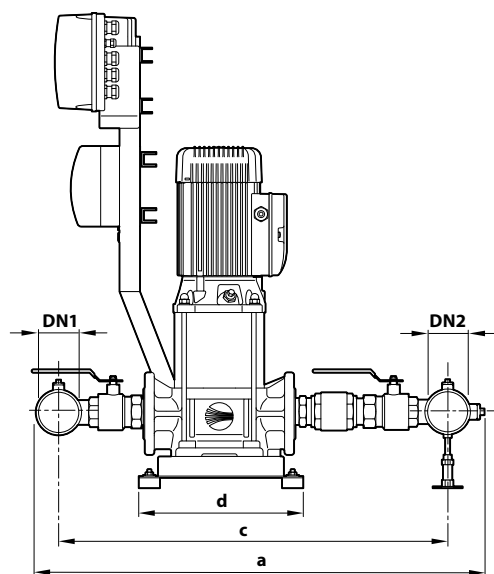
ABSORPTION

TYPE	VOLTAGE
Single-phase	230 V
GP3Am - HT 3/5	–
GP3Am - HT 3/6	–
GP3Am - HT 3/7	–
GP3Am - HT 5/3	–
GP3Am - HT 5/4	–
GP3Am - HT 5/5	–
GP3Am - HT 5/6	–
GP3Am - HT 8/3	–
GP3Am - HT 8/4	–
GP3Am - HT 8/5	–
GP3Am - HT 8/6	3×19.5 A
GP3Am - HT 10/3	3×12.2 A
GP3Am - HT 10/4	–
GP3Am - HT 10/5	3×18.0 A

TYPE	VOLTAGE
Three-phase	400 V - Δ
GP3A - HT 3/5	–
GP3A - HT 3/6	–
GP3A - HT 3/7	–
GP3A - HT 3/8	–
GP3A - HT 3/9	–
GP3A - HT 3/10	–
GP3A - HT 5/3	–
GP3A - HT 5/4	–
GP3A - HT 5/5	–
GP3A - HT 5/6	–
GP3A - HT 5/7	–
GP3A - HT 5/8	–
GP3A - HT 5/9	–
GP3A - HT 8/3	–
GP3A - HT 8/4	–
GP3A - HT 8/5	3×6.8 A
GP3A - HT 8/6	–
GP3A - HT 8/7	–
GP3A - HT 8/8	3×10.5 A
GP3A - HT 8/9	–
GP3A - HT 8/10	–
GP3A - HT 10/3	3×4.5 A
GP3A - HT 10/4	–
GP3A - HT 10/5	3×6.5 A
GP3A - HT 10/6	–
GP3A - HT 10/7	3×9.5 A
GP3A - HT 10/8	–
GP3A - HT 10/9	3×10.5 A
GP3A - HT 15/2R	–
GP3A - HT 15/3R	3×8.8 A
GP3A - HT 15/3	3×10.0 A
GP3A - HT 15/4	3×12.3 A
GP3A - HT 15/5	–
GP3A - HT 15/6	–
GP3A - HT 15/7	–
GP3A - HT 22/2	–
GP3A - HT 22/3	–
GP3A - HT 22/4	–
GP3A - HT 22/5	–
GP3A - HT 22/6	–
GP3A - HT 22/7	3×26.0 A
GP3A - HT 22/8	–
GP3A - HT 30/2R	–
GP3A - HT 30/2	3×10.5 A
GP3A - HT 30/3	–
GP3A - HT 30/4	3×15.5 A
GP3A - HT 30/5	3×22.0 A
GP3A - HT 30/6	3×25.0 A

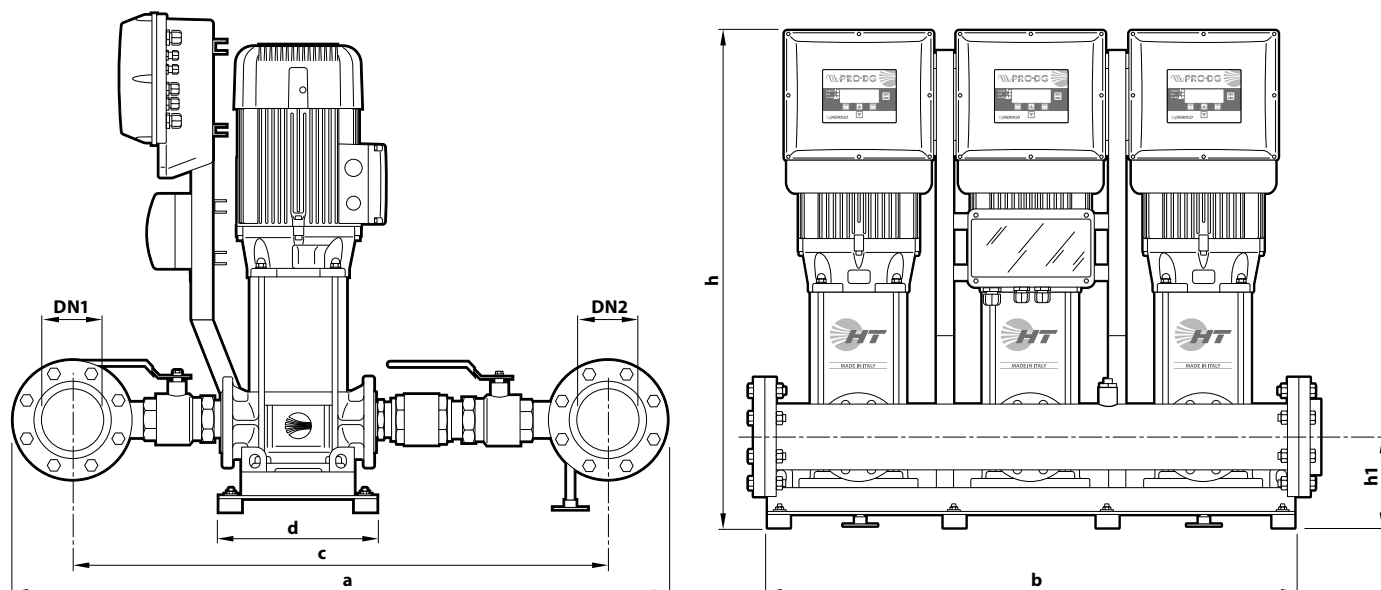
GP3A - HT

DIMENSIONS AND WEIGHT



TYPE		PORTS		DIMENSIONS mm						kg	
Single-phase	Three-phase	DN1	DN2	a	b	c	d	h	h1	1~	3~
GP3Am - HT 3/5	GP3A - HT 3/5	2½"	2½"	850	870	715	318	892	148	165	165
GP3Am - HT 3/6	GP3A - HT 3/6									169	169
GP3Am - HT 3/7	GP3A - HT 3/7									184	184
-	GP3A - HT 3/8									-	206
-	GP3A - HT 3/9									-	209
-	GP3A - HT 3/10									-	211
GP3Am - HT 5/3	GP3A - HT 5/3	2½"	2½"	809	870	674	318	892	148	162	162
GP3Am - HT 5/4	GP3A - HT 5/4									168	168
GP3Am - HT 5/5	GP3A - HT 5/5									175	175
GP3Am - HT 5/6	GP3A - HT 5/6									178	178
-	GP3A - HT 5/7									-	204
-	GP3A - HT 5/8									-	207
-	GP3A - HT 5/9									-	220
GP3Am - HT 8/3	GP3A - HT 8/3	3"	3"	899	870	751	318	892	153	176	176
GP3Am - HT 8/4	GP3A - HT 8/4									182	182
GP3Am - HT 8/5	GP3A - HT 8/5									193	193
GP3Am - HT 8/6	GP3A - HT 8/6									195	195
-	GP3A - HT 8/7									-	218
-	GP3A - HT 8/8									-	230
-	GP3A - HT 8/9									-	233
-	GP3A - HT 8/10									-	248
GP3Am - HT 10/3	GP3A - HT 10/3	3"	3"	899	870	751	318	892	153	176	176
GP3Am - HT 10/4	GP3A - HT 10/4									182	182
GP3Am - HT 10/5	GP3A - HT 10/5									193	193
-	GP3A - HT 10/6									-	218
-	GP3A - HT 10/7									-	218
-	GP3A - HT 10/8									-	231
-	GP3A - HT 10/9									-	234

DIMENSIONS AND WEIGHT



TYPE		PORTS		DIMENSIONS mm						kg	
Single-phase	Three-phase	DN1	DN2	a	b	c	d	h	h1	1~	3~
—	GP3A - HT 15/2R	DN100	DN100	1123	1110	894	328	912	183	—	330
—	GP3A - HT 15/3R									—	332
—	GP3A - HT 15/3									—	345
—	GP3A - HT 15/4							1044		—	374
—	GP3A - HT 15/5									—	398
—	GP3A - HT 15/6									—	532
—	GP3A - HT 15/7									—	533
—	GP3A - HT 22/2	DN125	DN125	1421	1110	1164	328	912	183	—	366
—	GP3A - HT 22/3									—	380
—	GP3A - HT 22/4									—	406
—	GP3A - HT 22/5							1044		—	430
—	GP3A - HT 22/6									—	564
—	GP3A - HT 22/7									—	589
—	GP3A - HT 22/8									1083	—
—	GP3A - HT 30/2R	DN125	DN125	1377	1110	1120	328	1044	198	—	382
—	GP3A - HT 30/2							912		—	391
—	GP3A - HT 30/3									—	406
—	GP3A - HT 30/4									1044	—
—	GP3A - HT 30/5							—			592
—	GP3A - HT 30/6							—			594