

PLUS



PLUS 18

CARATTERISTICHE / CHARACTERISTICS / CARACTERISTICAS / CARATERISTIQUES



UTILIZZI - Pompe centrifughe multistadio orizzontali con corpo pompa in acciaio cromo-nickel AISI 304. Movimentazione di liquidi non carichi nei settori civili, agricoli ed industriali; sistemi di pressurizzazione; irrigazione; acque potabili o con glicole in soluzione; trattamento acque; industria alimentare; riscaldamento e condizionamento; sistemi di lavaggio.

VANTAGGI - Versione monoblocco compatta con ingombri ridotti; estrema silenziosità di funzionamento; ottimo rendimento con una notevole diminuzione dei costi d'esercizio e delle potenze impegnate; economica; cuscinetti motore sovradimensionati per una maggior durata; cuscinetto intermedio guida-albero che garantisce coassialità di rotazione.

CARATTERISTICHE COSTRUTTIVE - Portata fino a 26 m³/h; prevalenza fino a 78 m; pressione massima di esercizio 8 bar (9 bar con 7 giranti); temperatura d'esercizio del liquido pompato: da +5 a +35 °C; temperatura ambiente max 40°C.

MOTORE - Motore a 2 poli ad induzione; monofase 230V – 50 Hz dotati di protezione termica fino a P2= 1,85 Kw; Trifase 230/400 V – 50 Hz; isolamento classe F; protezione IP 44.

MATERIALI - Corpo pompa, disco tenuta meccanica: acciaio cromo-nickel AISI 304; giranti, diffusori: Noryl® rinforzato con fibra di vetro (GFN2V); albero: acciaio cromo-nickel AISI 303; supporto motore: alluminio stampato; tenuta meccanica: ceramica-grafite fino a 6 stadi - grafite-carburo di silicio da 7 stadi; cuscinetto intermedio guida-albero: ottone-acciaio cromo-nickel AISI 304.

USES - Stainless steel multistage horizontal pumps. Pumping of clean non-loaded fluids in the domestic, agricultural and industrial sectors; pressurizing systems; irrigation; drinking and glycol water; water treatment; food industry; heating and air conditioning; washing system.

ADVANTAGES - Closed coupled and compact; silent; excellent efficiency that allows a reduction of running cost and powers; economical; over-dimensioned bearings for longer life of the machines; intermediate shaft guiding stage for concentricity of rotation.

CONSTRUCTION FEATURES - Capacity: up to 26 m³/h; total Head: up to 78 m.; maximum working pressure: 8 bar (9 bar with 7 impellers); maximum suction Head up to; maximum liquid temperature: from +5 up to +35 °C; ambient temperature: max 40 °C.

MOTOR - 2 Pole induction Motor; single Phase 230V - 50Hz with thermal protector up to P2= 1,85 Kw; Three Phase 230-400V - 50 Hz; insulation class F; protection degree IP 44.

CONSTRUCTION FEATURES - Pump body, mechanical seal disc holder: chromo-nickel steel AISI 304; impellers, diffusers: Noryl® reinforced with fiber glass (GFN2V); pump shaft: AISI 304 chromo-nickel steel; motor bracket: aluminum alloy; mechanical seal: ceramic-graphite up to 6 stages - graphite-silicon carbide from 7 stages; intermediate shaft guiding stage bush: brass-AISI 304 chromo-nickel steel.

UTILIZACIONES - Bombas centrífugas multietapas horizontales con cuerpo bomba en acero cromo-níquel Aisi 304. Bombeo de líquidos química y mecánicamente no agresivos en el sector doméstico, agrícola e industria; sistemas de presurización; riegos; agua potable o con glicol; tratamientos del agua; industria alimenticia; calefacción y refrigeración; sistemas de lavado.

VENTAJAS - Versión monobloc compacta con medidas reducidas; extrema silenziosidad de funcionamiento; excelente rendimiento con desminución de los costes de ejercicio y de las potencias; económica; cojinetes del motor sobredimensionados para una mayor duración; cojinete intermedio gula-eje que garantiza la coaxialidad de rotación.

CARACTERÍSTICAS CONSTRUCTIVAS -Caudal hasta los 26 m³/h; prevalencia hasta los 78 mt.; maxima presión de ejercicio 8 bar (9 bar con 7 rodetes); temperatura de ejercicio del líquido bombeado: de +5 a +35 °C; temperatuta del ambiente max 40°C.

MOTOR - Motor de 2 polos a inducción; monofasico 230v-50hz dotado de protección térmica hasta P2= 1,85 Kw; Trifasico 230/400v-50hz; aislamiento clase F; protección IP44.

MATERIALES - Cuerpo bomba,disco sello mecánico: acero cromo-níquel AISI 304; rodetes, difusores: Noryl® reforzado con fibra de vidrio (GFN2V); eje: acero cromo-níquel AISI 303; soporte motor: aluminio estampado; sello mecánico: cerámica-grafito hasta los 6 estadios - grafito-carburo de silicio de los 7 estadios; cojinete intermedio guía-eje: latón-acero cromo-níquel AISI 304.

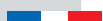
UTILISATION - Pompes multicellulaires horizontales en acier inox. Pour le pompage d'eaux propres non chargées pour des applications domestiques, agricoles, industrielles; groupes de surpression; irrigation; eau potable ou solution de glycol; traitement des eaux; industrie alimentaire; chauffage et Climatisation; stations de lavage auto.

AVANTAGES - Version monobloc compact; silencieux; rendement excellent avec une diminution remarquable des coût de fontionnement et des puissance; économique; roulements surdimensionnés et étage de guidage intermédiaire pour une durée de vie prolongée des machines; roulement intermédiaire étage de guidage qui garantie le coaxialité de rotation.

CARACTÉRISTIQUES D'EXÉCUTION - Débit jusqu'à 26 m³/h; hauteur jusque'à 78 m.; pression max. de fonctionnement 8 bar (9 bar avec 7 roues); température du liquide pompé: de +5 à +35 °C; température ambiante max 40 °C.

MOTEUR - Moteur 2 pôles à induction; monophasé 230 V – 50 Hz avec protection thermique jusqu'à P2=1,85 Kw; triphasé 230/400 V – 50 Hz; isolation en classe F; degré de protection IP 44.

MATERIAUX - Corps de pompe, disque porte-garniture: acier au chrome-nickel AISI 304; roues, diffuseurs: Noryl® renforcé svec fibre de verre (GFN2V); arbre: acier au chrome-nickel AISI 303; support moteur: alliage d'aluminium; garniture mécanique: céramique – graphite jusqu'à 6 étages, graphite - carbure de silicium à partir de 7 étages; douilles étage de guidage intermédiaire: laiton-acier au chrome-nickel AISI 304.





PLUS 5



PLUS 9



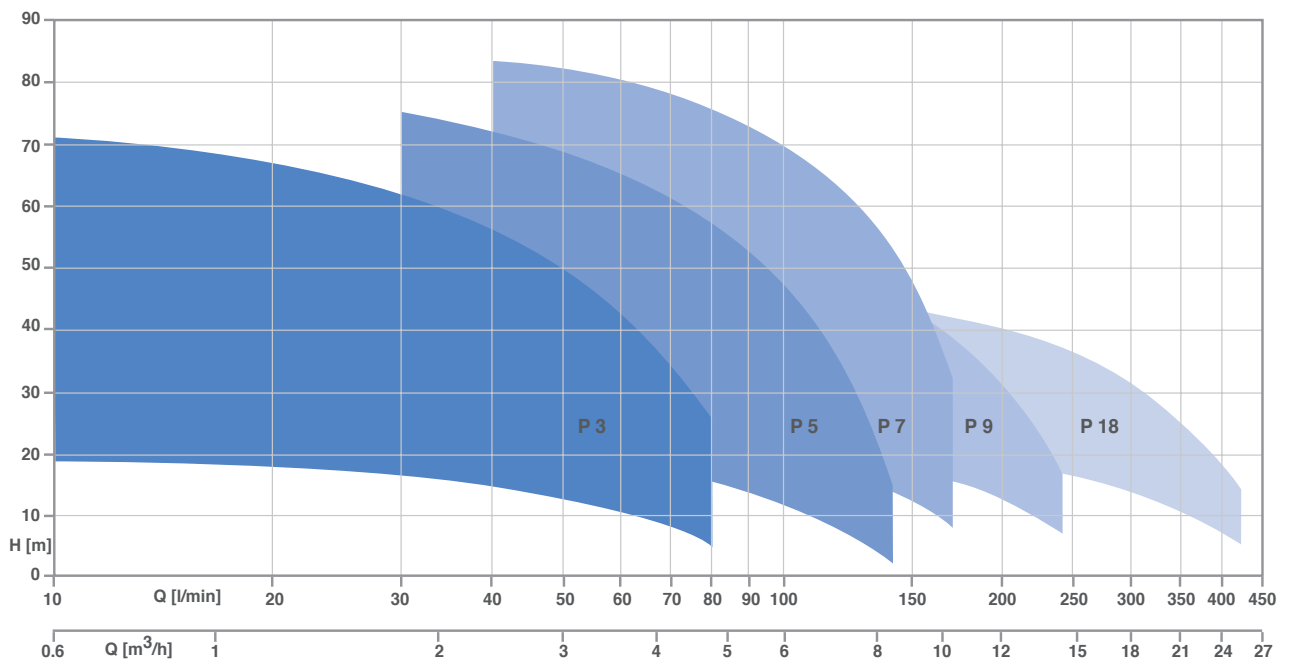
PLUS 7



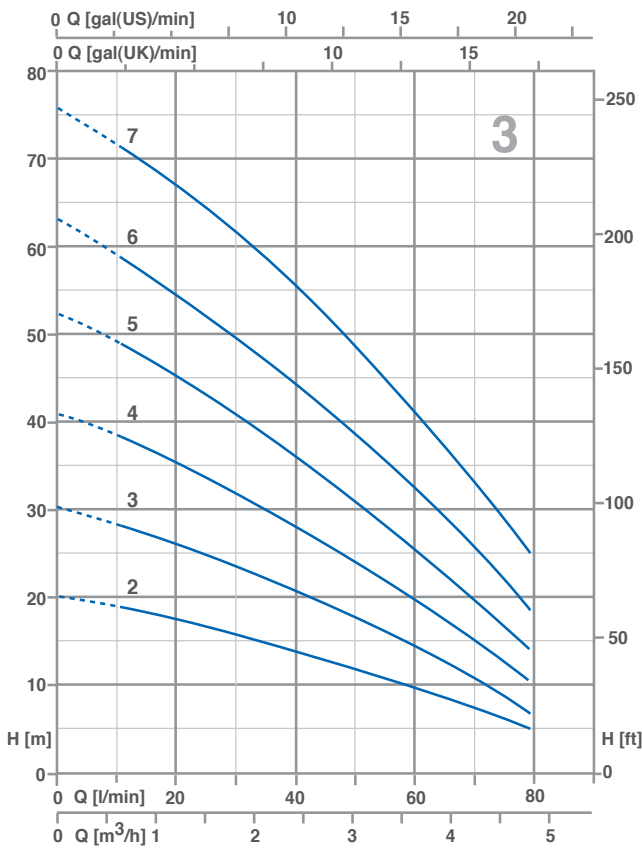
PLUS 3

P 5 - 120 / 4 T

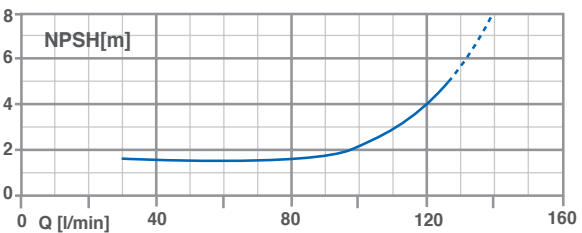
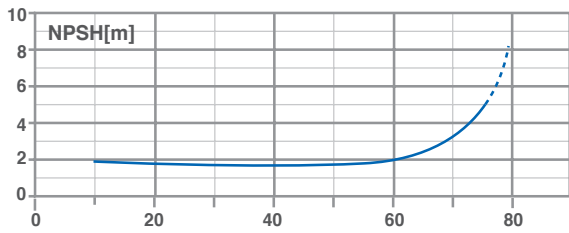
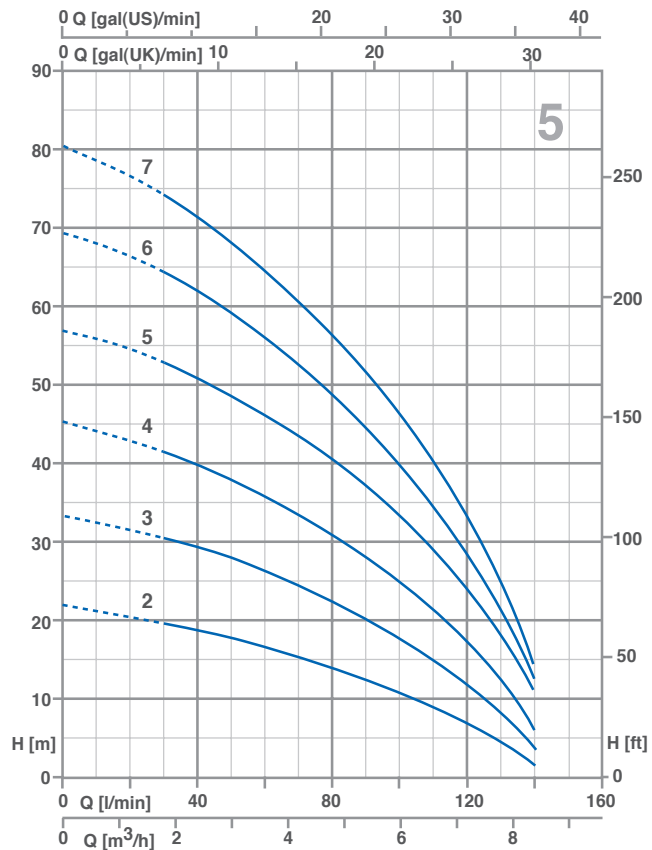
Trifase - Three-phase
 n° giranti - no. of impellers
 Potenza nominale in HPx100 - Nominal Power HPx100
 Portata nominale in m³/h - Nominal flow-rate m³/h
 Tipo - Type **PLUS**



PLUS 3



PLUS 5



Dati tecnici / Technical data / Datos técnicos / Données techniques

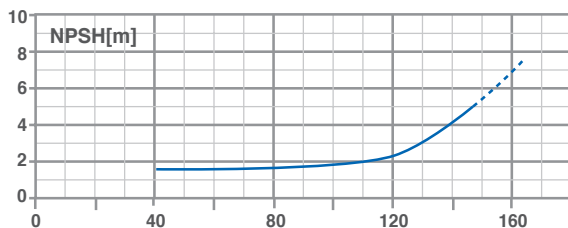
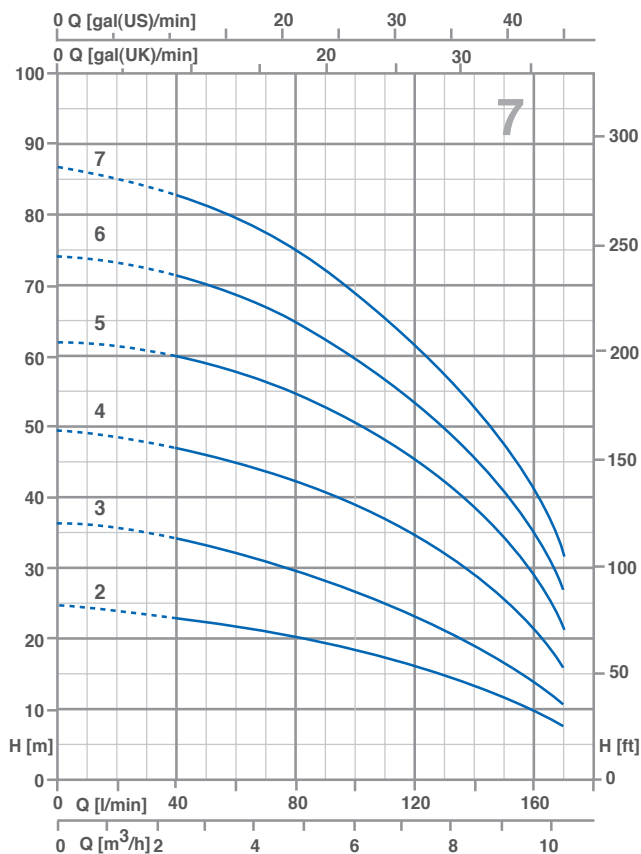
| TIPO / TYPE / MODELO / MODÈLE | | P2 | | P1 (kW) | | AMPERE | | Q (m³/h - l/min) | | | | | | | |
|-------------------------------|---------------------|------|------|---------|------|-------------|-------------|------------------|------|------|------|------|------|------|--|
| 1~ | 3~ | (HP) | (kW) | 1~ | 3~ | 1~ | 3~ | H (m) | | | | | | | |
| | | | | | | | | 0 | 0.6 | 1.2 | 1.8 | 2.4 | 3.6 | 4.8 | |
| 230 V - 50 Hz | 230 / 400 V - 50 Hz | | | | | 1x230V 50Hz | 3x400V 50Hz | 0 | 10 | 20 | 30 | 40 | 60 | 80 | |
| P 3-50/2 | P 3-50/2 T | 0.5 | 0.37 | 0.45 | 0.46 | 2 | 0.9 | 20.2 | 18.8 | 17.3 | 15.3 | 13.7 | 9.5 | 4.9 | |
| P 3-70/3 | P 3-70/3 T | 0.7 | 0.51 | 0.65 | 0.63 | 2.9 | 1.2 | 30 | 27.9 | 25.4 | 23 | 20.3 | 14 | 6.7 | |
| P 3-90/4 | P 3-90/4 T | 0.9 | 0.66 | 0.9 | 0.88 | 4 | 1.8 | 40.8 | 38.3 | 35.1 | 31.8 | 27.9 | 19.8 | 10.4 | |
| P 3-100/5 | P 3-100/5 T | 1 | 0.75 | 1.06 | 1.01 | 4.8 | 1.9 | 52.2 | 48.9 | 45.1 | 40.8 | 36 | 25.4 | 14 | |
| P 3-120/6 | P 3-120/6 T | 1.2 | 0.9 | 1.23 | 1.23 | 5.6 | 2.6 | 62.8 | 58.7 | 54.5 | 49.6 | 43.9 | 32.1 | 18.3 | |
| P 3-150/7 | P 3-150/7 T | 1.5 | 1.1 | 1.54 | 1.45 | 7.1 | 2.9 | 75.5 | 71.3 | 66.6 | 61.2 | 54.8 | 41.1 | 24.9 | |

| TIPO / TYPE / MODELO / MODÈLE | | P2 | | P1 (kW) | | AMPERE | | Q (m³/h - l/min) | | | | | | | |
|-------------------------------|---------------------|------|------|---------|------|-------------|-------------|------------------|------|------|------|------|------|------|------|
| 1~ | 3~ | (HP) | (kW) | 1~ | 3~ | 1~ | 3~ | H (m) | | | | | | | |
| | | | | | | | | 0 | 1.8 | 2.4 | 3.6 | 4.8 | 6 | 7.2 | 8.4 |
| 230 V - 50 Hz | 230 / 400 V - 50 Hz | | | | | 1x230V 50Hz | 3x400V 50Hz | 0 | 30 | 40 | 60 | 80 | 100 | 120 | 140 |
| P 5-70/2 | P 5-70/2 T | 0.7 | 0.51 | 0.61 | 0.58 | 2.7 | 1.1 | 22 | 19.7 | 18.7 | 16.6 | 14 | 10.8 | 6.8 | 1.8 |
| P 5-80/3 | P 5-80/3 T | 0.8 | 0.6 | 0.86 | 0.79 | 3.9 | 1.5 | 33.4 | 30.3 | 29 | 26 | 22.5 | 17.6 | 12 | 3.9 |
| P 5120/4 | P 5-120/4 T | 1.2 | 0.9 | 1.13 | 1.13 | 5.2 | 2.5 | 45.3 | 41.3 | 39.6 | 35.6 | 30.8 | 24.9 | 17.6 | 6.4 |
| P 5-150/5 | P 5-150/5 T | 1.5 | 1.1 | 1.47 | 1.39 | 6.8 | 2.8 | 56.8 | 53 | 51 | 46.1 | 40.1 | 33.3 | 24.8 | 11.5 |
| P 5-180/6 | P 5-180/6 T | 1.8 | 1.3 | 1.7 | 1.62 | 7.7 | 3 | 69.3 | 64.4 | 62 | 55.6 | 48.2 | 39.6 | 28.8 | 12 |
| P 5-200/7 | P 5-200/7 T | 2 | 1.5 | 2 | 1.86 | 9 | 3.4 | 80.3 | 73.6 | 71 | 64.5 | 56.1 | 46 | 33.4 | 12.5 |

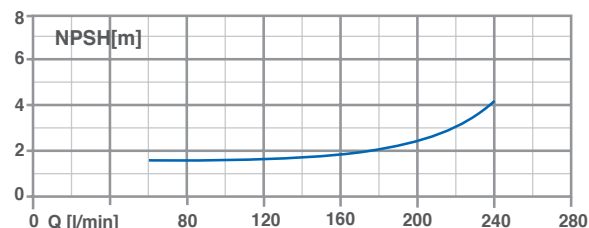
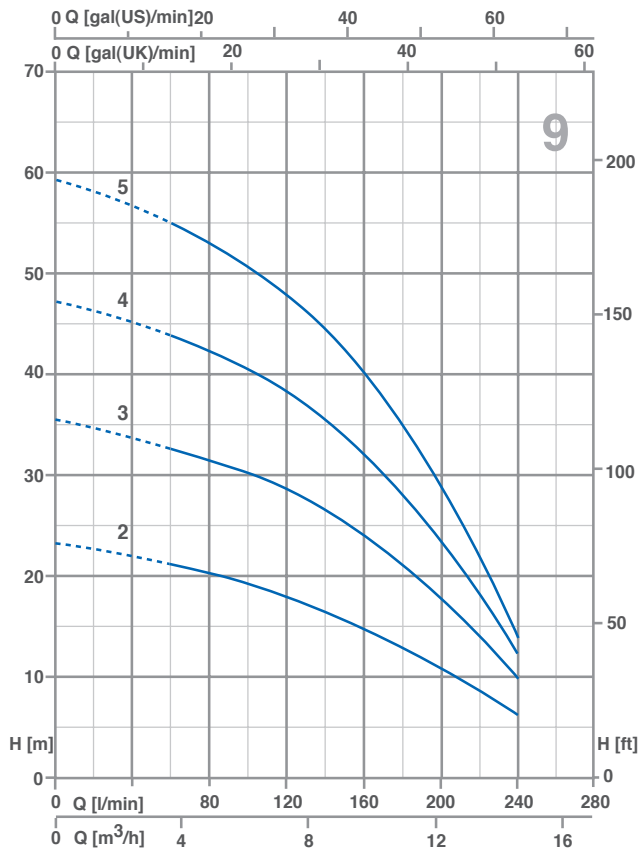
PLUS

ELETTROPOMPE
multigriganti

PLUS 7



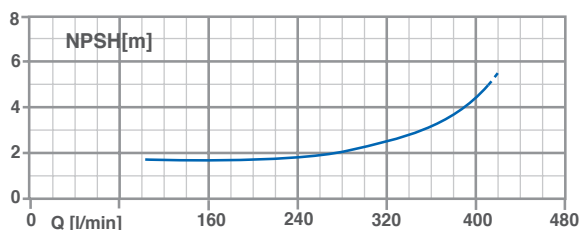
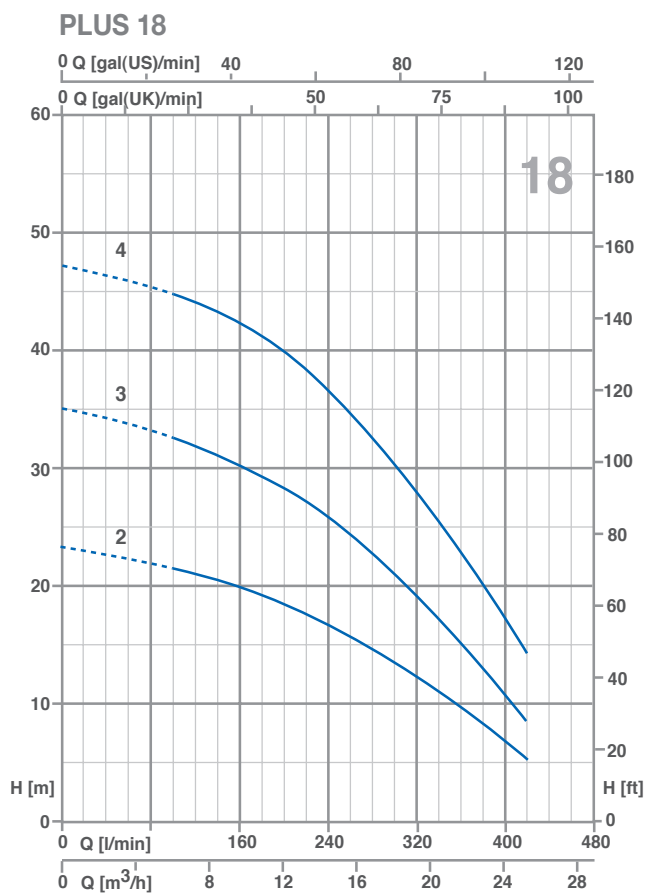
PLUS 9



Dati tecnici / Technical data / Datos técnicos / Données techniques

| TIPO / TYPE / MODELO / MODÈLE | | P2 | | P1 (kW) | | AMPERE | | Q (m³/h - l/min) | | | | | | | | | |
|-------------------------------|---------------------|-----|------|---------|------|-------------|-------------|------------------|------|------|------|------|------|------|------|------|--|
| 1~ | 3~ | HP | (kW) | 1~ | 3~ | 1~ | 3~ | H (m) | | | | | | | | | |
| | | | | | | | | 0 | 2.4 | 3.6 | 4.8 | 6 | 7.2 | 8.4 | 9.6 | 10.2 | |
| 230 V - 50 Hz | 230 / 400 V - 50 Hz | | | | | 1x230V 50Hz | 3x400V 50Hz | 0 | 40 | 60 | 80 | 100 | 120 | 140 | 160 | 170 | |
| P 7-100/2 | P 7-100/2 T | 1 | 0.75 | 0.97 | 0.9 | 4.4 | 1.7 | 24.8 | 23.4 | 22 | 20.5 | 18.7 | 16.3 | 13.6 | 10.2 | 8.3 | |
| P 7-120/3 | P 7-120/3 T | 1.2 | 0.9 | 1.32 | 1.3 | 5.9 | 2.6 | 36.7 | 34 | 32 | 29.6 | 26.5 | 23 | 18.6 | 13.8 | 11 | |
| P 7-180/4 | P 7-180/4 T | 1.8 | 1.3 | 1.83 | 1.71 | 8.3 | 3.2 | 49.5 | 47.4 | 45.3 | 42.5 | 39.2 | 34.8 | 29.4 | 22.6 | 16.9 | |
| P 7-250/5 | P 7-250/5 T | 2.5 | 1.85 | 2.39 | 2.15 | 10.9 | 4.2 | 62.6 | 60.6 | 58.2 | 55.1 | 51.1 | 45.8 | 39 | 29.8 | 21.5 | |
| P 7-300/6 | P 7-300/6 T | 3 | 2.2 | 2.68 | 2.63 | 12.2 | 5 | 74.8 | 71.5 | 68.3 | 64.5 | 59.3 | 53 | 44.6 | 34.5 | 26.7 | |
| - | P 7-350/7 T | 3.5 | 2.57 | - | 3.04 | - | 5.5 | 87.2 | 83.3 | 79.3 | 74.6 | 68.9 | 61.9 | 52.5 | 41 | 32.2 | |

| TIPO / TYPE / MODELO / MODÈLE | | P2 | | P1 (kW) | | AMPERE | | Q (m³/h - l/min) | | | | | | | | | | | |
|-------------------------------|---------------------|-----|------|---------|------|-------------|-------------|------------------|------|------|------|------|------|------|------|------|------|------|--|
| 1~ | 3~ | HP | (kW) | 1~ | 3~ | 1~ | 3~ | H (m) | | | | | | | | | | | |
| | | | | | | | | 0 | 3.6 | 4.8 | 6 | 7.2 | 8.4 | 9.6 | 10.8 | 12 | 13.2 | 14.4 | |
| 230 V - 50 Hz | 230 / 400 V - 50 Hz | | | | | 1x230V 50Hz | 3x400V 50Hz | 0 | 60 | 80 | 100 | 120 | 140 | 160 | 180 | 200 | 220 | 240 | |
| P 9-100/2 | P 9-100/2 T | 1 | 0.75 | 0.98 | 0.92 | 4.4 | 1.7 | 23 | 20.9 | 20 | 19.1 | 17.9 | 16.6 | 15 | 13.2 | 11.1 | 8.9 | 6.5 | |
| P 9-150/3 | P 9-150/3 T | 1.5 | 1.1 | 1.43 | 1.38 | 6.7 | 2.8 | 35.2 | 32.6 | 31.5 | 30.3 | 28.8 | 26.9 | 24.5 | 21.5 | 18.3 | 14.7 | 10.8 | |
| P 9-200/4 | P 9-200/4 T | 2 | 1.5 | 1.88 | 1.77 | 8.4 | 3.3 | 47.1 | 43.5 | 42 | 40.5 | 38.3 | 35.7 | 32.4 | 28.4 | 23.8 | 18.9 | 13.3 | |
| P 9-250/5 | P 9-250/5 T | 2.5 | 1.85 | 2.32 | 2.18 | 10.6 | 4.3 | 59.2 | 54.4 | 52.4 | 50.4 | 47.9 | 44.8 | 40.5 | 35.5 | 29.8 | 23.5 | 16.3 | |



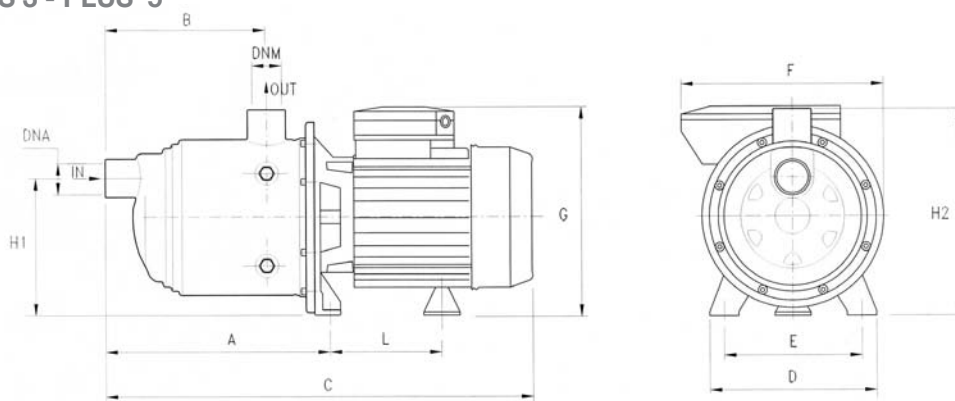
Dati tecnici / Technical data / Datos técnicos / Données techniques

| TIPO/TYPE MODELO/MODÈLE | P2 | | P1 (kW) | AMPERE | Q (m ³ /h - l/min) | | | | | | | | | | | | | | | | | |
|----------------------------|------|------|------------|--------|-------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| | | | | 3~ | 0 | 6 | 7.2 | 8.4 | 9.6 | 10.8 | 12 | 13.2 | 14.4 | 15.6 | 16.8 | 18 | 19.2 | 20.4 | 21.6 | 22.8 | 24 | 25.2 |
| | | | | | 0 | 100 | 120 | 140 | 160 | 180 | 200 | 220 | 240 | 260 | 280 | 300 | 320 | 340 | 360 | 380 | 400 | 420 |
| 3~ 230 / 400 V - 50 Hz | (HP) | (kW) | 3~ | | H (m) | | | | | | | | | | | | | | | | | |
| P 18-180/2 T | 1.8 | 1.3 | 1.52 | 3 | 23.1 | 21.4 | 21 | 20.5 | 19.9 | 19.2 | 18.4 | 17.6 | 16.7 | 15.7 | 14.7 | 13.5 | 12.1 | 10.9 | 9.7 | 8.3 | 7 | 5.5 |
| P 18-250/3 T | 2.5 | 1.85 | 2.19 | 4.3 | 35 | 32.7 | 32.2 | 31.4 | 30.5 | 29.5 | 28.3 | 26.7 | 25.5 | 24.3 | 22.8 | 21.2 | 19.3 | 17.3 | 15.1 | 12.9 | 10.8 | 8.7 |
| P 18-400/4 T | 4 | 3 | 2.99 | 5.5 | 47.2 | 44.6 | 44.1 | 43.3 | 42.4 | 41.2 | 40 | 38.5 | 36.7 | 34.9 | 32.9 | 30.5 | 27.9 | 25.3 | 22.7 | 20 | 17.1 | 14.3 |

PLUS

Dimensioni / Dimensions / Dimensiones / Dimensions

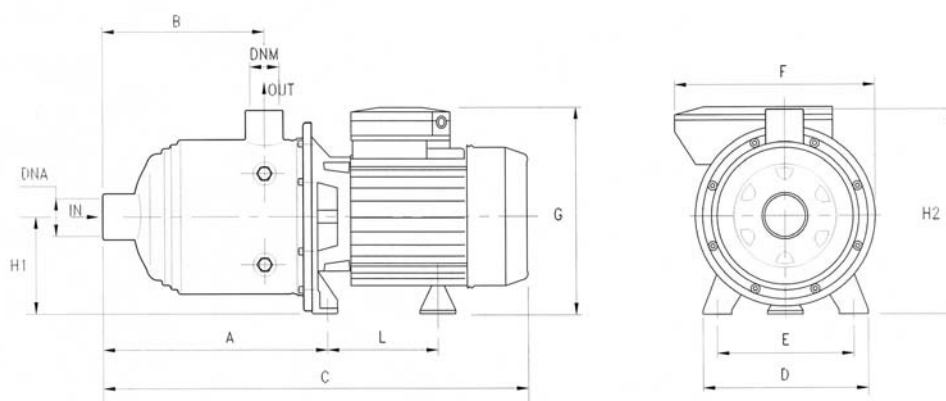
PLUS 3 - PLUS 5



| TIPO / TYPE MODELO / MODÈLE | DIMENSIONI / DIMENSIONS / DIMENSIONES / DIMENSIONS (mm) | | | | | | | | | | DNA | DNM |
|-----------------------------------|---|-----|-----|-----|-----|-----|-----|-------|-----|-----|------|------|
| | A | B | C | D | E | F | G | L | H1 | H2 | | |
| P 3-50/2 | 166.8 | 103 | 333 | 164 | 140 | 178 | 195 | 93.7 | 128 | 192 | 1" G | 1" G |
| P 3-70/3 | 166.8 | 103 | 333 | 164 | 140 | 178 | 195 | 93.7 | 128 | 192 | | |
| P 3-90/4 | 190.8 | 127 | 357 | 164 | 140 | 178 | 195 | 104.7 | 128 | 192 | | |
| P 3-100/5 | 214.8 | 151 | 404 | 164 | 140 | 178 | 203 | 104.7 | 128 | 192 | | |
| P 3-120/6 | 238.8 | 175 | 428 | 164 | 140 | 178 | 203 | 104.7 | 128 | 192 | | |
| P 3-150/7 | 262.8 | 199 | 483 | 164 | 140 | 201 | 211 | 104.7 | 128 | 198 | | |
| P 5-70/2 | 166.8 | 103 | 333 | 164 | 140 | 178 | 195 | 93.7 | 128 | 192 | | |
| P 5-80/3 | 166.8 | 103 | 357 | 164 | 140 | 178 | 203 | 93.7 | 128 | 192 | | |
| P 5-120/4 | 190.8 | 127 | 380 | 164 | 140 | 178 | 203 | 104.7 | 128 | 192 | | |
| P 5-150/5 | 214.8 | 151 | 436 | 164 | 140 | 201 | 211 | 128.2 | 134 | 198 | | |
| P 5-180/6 | 238.8 | 175 | 459 | 164 | 140 | 201 | 211 | 128.2 | 134 | 198 | | |
| P 5-200/7 | 262.8 | 199 | 483 | 164 | 140 | 201 | 211 | 128.2 | 134 | 198 | | |

Dimensioni / Dimensions / Dimensiones / Dimensions

PLUS 7 - PLUS 9 - PLUS 18



| TIPO / TYPE MODELO / MODÈLE | DIMENSIONI / DIMENSIONS / DIMENSIONES / DIMENSIONS (mm) | | | | | | | | | | DNA | DNM |
|-----------------------------------|---|-------|-----|-----|-----|-----|-----|-------|-----|-----|---------|---------|
| | A | B | C | D | E | F | G | L | H1 | H2 | | |
| P 7-100/2 | 166.8 | 103 | 356 | 164 | 140 | 178 | 203 | 93.7 | 92 | 192 | 1"1/4 G | 1" G |
| P 7-120/3 | 166.8 | 103 | 356 | 164 | 140 | 178 | 203 | 93.7 | 92 | 192 | | |
| P 7-180/4 | 190.8 | 127 | 411 | 164 | 140 | 201 | 211 | 128.2 | 98 | 198 | | |
| P 7-250/5 | 214.8 | 151 | 436 | 164 | 140 | 201 | 211 | 128.2 | 98 | 198 | | |
| P 7-300/6 | 238.8 | 175 | 459 | 164 | 140 | 201 | 211 | 128.2 | 98 | 198 | | |
| P 7-350/7 | 262.8 | 199 | 527 | 164 | 140 | 201 | 230 | 148.2 | 103 | 203 | | |
| P 9-100/2 | 185.8 | 122 | 375 | 164 | 140 | 176 | 203 | 104.7 | 92 | 192 | 1"1/2 G | 1"1/4 G |
| P 9-150/3 | 185.8 | 122 | 375 | 164 | 140 | 201 | 211 | 128.2 | 98 | 198 | | |
| P 9-200/4 | 216 | 152 | 436 | 164 | 140 | 201 | 211 | 128.2 | 98 | 198 | | |
| P 9-250/5 | 246 | 182 | 464 | 164 | 140 | 201 | 211 | 128.2 | 98 | 198 | | |
| P 18-180/2 T | 201 | 137 | 432 | 164 | 140 | 201 | 211 | 128.2 | 98 | 198 | 2" G | 1"1/2 G |
| P 18-250/3 T | 238.5 | 174.5 | 432 | 164 | 140 | 201 | 211 | 128.2 | 98 | 198 | | |
| P 18-400/4 T | 276 | 212 | 514 | 164 | 140 | 201 | 230 | 148.2 | 103 | 203 | | |