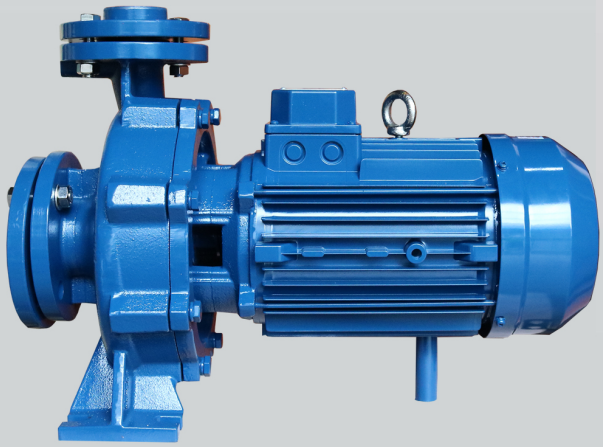
MARO water pumps

Clean Civil Industry Fire



# CM

**n ≈ 2900 rpm**

## Close coupled centrifugal pump
## *Bomba centrífuga acoplado cerrado*
## *Pompe centrifuge à couple fermé*

## NEW/*NUEVO/NOUVEAU*

### DESCRIPTION/*DESCRIPCIONES/DESCRIPTION*

- New EN733 standard centrifugal pump
- Original design by PURITY (Patent no.201530478502.0)
- Both square motor & round motor available
- YE3 high efficient motor, with protection IP55 class F
- Pump case with anti-corrosive coating
- Galvanized counter flange with bolts, nuts and gaskets
- Quality NSK bearing, wear resistance mechanical seal

- *Nuevas bombas centrífugas según norma EN733*
- *Diseño original de PURITY (Patente no.201530478502.0)*
- *Motor redondo y cuadrado disponible*
- *Motor de eficiencia YE3 con Protección IP55 clase F*
- *Cuerpo de bomba con tratamiento anti-corrosión*
- *Contrabridas galvanizadas con pernos, tuercas y empaques*
- *Rodamiento de marca NSK y cierre mecánico personalizado*

- *Nouvelle pompe centrifuge standard EN733*
- *Design original par PURITY (Brevet no.201530478502.0)*
- *Moteur carré et moteur rond disponibles*
- *Moteur haute efficacité YE3, avec protection IP55 classe F*
- *Boîtier de pompe avec revêtement anti-corrosif*
- *Contre-bride galvanisée avec boulons, écrous et joints*
- *Roulement NSK qualité, joint mécanique de résistance à l'usure*

### APPLICATIONS/*APLICACIONES/APPLICATIONS*

Suitable for use with clean water and liquids that are not chemically aggressive towards the materials from which the pump is made. The EN733 centrifugal pumps are recommended for use in water supply, cleaning sets, pressure boosting, firefighting sets, irrigation, industrial applications, water circulation in climatisation sets, agricultural.

*Son recomendadas para bombear agua limpia, sin partículas abrasivas y líquidos químicamente no agresivos con los materiales que constituyen la bomba.*
*Las Bombas centrífugas según EN733 disenadas para abastecimiento hídrico, instalaciones de lavado, presurización, contraincendio, irrigación, industria, circulación del agua, agricultura.*

*Convient pour une utilisation avec de l'eau propre et des liquides qui ne sont pas chimiquement agressif envers les matériaux dont la pompe est faite. Les pompes centrifuges EN733 sont recommandées pour une utilisation dans l'alimentation en eau,kits de nettoyage, boosters de pression, kits anti-incendie, irrigation, industriels applications, circulation de l'eau dans les groupes de climatisation, agricole.*

### USING LIMITS/*LÍMITES UTILIZACIÓN/UTILISATION LIMITES*

- Liquid temperature between **-10°C** and **+120°C**
- Ambient temperature between **-10°C** and **+50°C**
- Max. working pressure **16 bar**
- Continuous service **S1**

- *Temperatura del líquido de **-10 °C** hasta **+120 °C***
- *Temperatura ambiente de **-10 °C** hasta **+50 °C***
- *Presión máxima en el cuerpo de la bomba **16 bar***
- *Funcionamiento continuo **S1***

- *Température du liquide entre **-10 °C** et **+120 °C***
- *Température ambiante entre **-10 °C** et **+50 °C***
- *Max. pression de service **16 bar***
- *Service continu **S1***

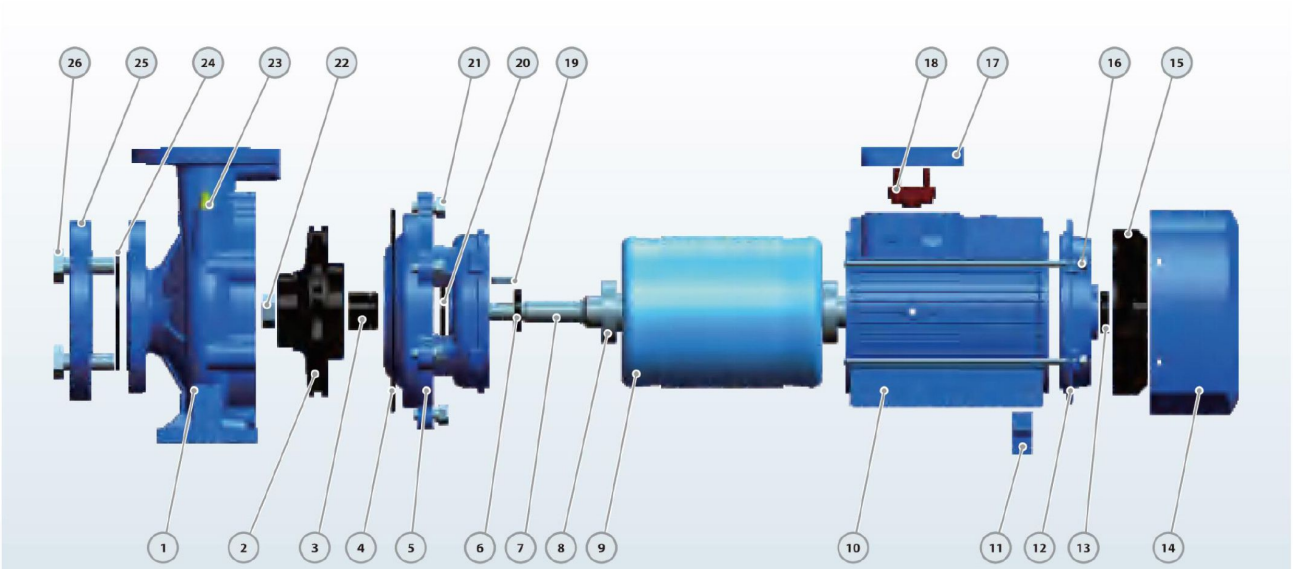
## TECHNICAL DATA/*DATOS TÉCNICOS/DONNÉES TECHNIQUES*

**50 Hz** **n=2900 1/min**

| MODEL *MODELO MODÈLE* | DN mm | Power *Potencia Puissance* kw | hp | Q=DELIVERY/*CAUDAL/DÉBIT* us gpm 0 | 26 | 40 | 66 | 79 | 106 | 119 | 159 | 185 | 211 | 238 | 317 | 370 | 396 | 476 | 529 | 608 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | l/min 0 | 100 | 150 | 250 | 300 | 400 | 450 | 600 | 700 | 800 | 900 | 1200 | 1400 | 1500 | 1800 | 2000 | 2300 |
| | | | | m³/h 0 | 6 | 9 | 15 | 18 | 24 | 27 | 36 | 42 | 48 | 54 | 72 | 84 | 90 | 108 | 120 | 138 |
| | | | | H=Head/*Altura/Hauteur*(m) | | | | | | | | | | | | | | | | |
| **CM32-160C** | 50x32 | 1.5 | 2 | 25.4 | 23.7 | 22.5 | 18.5 | 15.8 | - | - | - | - | - | - | - | - | - | - | - | - |
| **CM32-160B** | 50x32 | 2.2 | 3 | 31 | 29.6 | 28.5 | 24.5 | 22 | 15 | - | - | - | - | - | - | - | - | - | - | - |
| **CM32-160A** | 50x32 | 3 | 4 | 35 | 34.3 | 32.5 | 28 | 25.5 | 19 | 15 | - | - | - | - | - | - | - | - | - | - |
| **CM32-200C** | 50x32 | 4 | 5.5 | 54.5 | 52 | 50 | 45.5 | 42.3 | 35 | 30.3 | - | - | - | - | - | - | - | - | - | - |
| **CM32-200B** | 50x32 | 5.5 | 7.5 | 60 | 59.5 | 59 | 55 | 50.2 | 34.5 | - | - | - | - | - | - | - | - | - | - | - |
| **CM32-200A** | 50x32 | 7.5 | 10 | 69.5 | 69 | 68.5 | 66 | 63 | 53 | - | - | - | - | - | - | - | - | - | - | - |
| **CM40-160B** | 65x40 | 3 | 4 | 31.8 | - | - | - | 29.5 | 27.5 | 26.3 | 21.5 | 17.5 | - | - | - | - | - | - | - | - |
| **CM40-160A** | 65x40 | 4 | 5.5 | 38 | - | - | - | 36 | 34 | 33 | 28.5 | 25 | 20.1 | - | - | - | - | - | - | - |
| **CM40-200B** | 65x40 | 5.5 | 7.5 | 46 | - | - | - | 43.8 | 41.3 | 40.1 | 35 | 30 | - | - | - | - | - | - | - | - |
| **CM40-200A** | 65x40 | 7.5 | 10 | 57 | - | - | - | 53.6 | 51.5 | 50 | 45 | 41 | 36.5 | - | - | - | - | - | - | - |
| **CM40-250B** | 65x40 | 11 | 15 | 72 | - | - | - | 67.5 | 65 | 63.5 | 57.5 | 52.2 | 47 | - | - | - | - | - | - | - |
| **CM40-250A** | 65x40 | 15 | 20 | 84.5 | - | - | - | 79.3 | 77.3 | 75.2 | 70 | 66 | 61 | - | - | - | - | - | - | - |
| **CM50-160B** | 65x50 | 5.5 | 7.5 | 32 | - | - | - | - | - | - | 30.6 | 30 | 28 | 26.6 | 20.5 | 14.8 | - | - | - | - |
| **CM50-160A** | 65x50 | 7.5 | 10 | 40 | - | - | - | - | - | - | 38 | 37 | 36 | 34.4 | 29 | 24 | 21 | - | - | - |
| **CM50-200B** | 65x50 | 11 | 15 | 57.5 | - | - | - | - | - | - | 53.5 | 52 | 50 | 47.5 | 40 | 34 | 29 | - | - | - |
| **CM50-200A** | 65x50 | 15 | 20 | 62 | - | - | - | - | - | - | 58 | 56.5 | 54.5 | 52 | 44.5 | 39 | 35.5 | - | - | - |
| **CM50-250C** | 65x50 | 15 | 20 | 68.5 | - | - | - | - | - | - | 64 | 63 | 61.5 | 59 | 50 | 41 | - | - | - | - |
| **CM50-250B** | 65x50 | 18.5 | 25 | 79 | - | - | - | - | - | - | 75.8 | 74.8 | 74 | 71.5 | 63.5 | 55.5 | 47 | - | - | - |
| **CM50-250A** | 65x50 | 22 | 30 | 89.5 | - | - | - | - | - | - | 86 | 85.3 | 84 | 81.5 | 73.5 | 63.5 | 57 | - | - | - |
| **CM65-125B** | 80x65 | 5.5 | 7.5 | 23 | - | - | - | - | - | - | - | - | 21.3 | 20.9 | 19 | 17.5 | 16.7 | 13.7 | - | - |
| **CM65-125A** | 80x65 | 7.5 | 10 | 27 | - | - | - | - | - | - | - | - | 26 | 25.6 | 24.5 | 23 | 22.5 | 20 | 18 | - |
| **CM65-160B** | 80x65 | 11 | 15 | 36 | - | - | - | - | - | - | - | - | - | 34.5 | 33 | 31.5 | 30.8 | 28 | 25.5 | - |
| **CM65-160A** | 80x65 | 15 | 20 | 42 | - | - | - | - | - | - | - | - | - | 41 | 40 | 38.5 | 37.8 | 35 | 33 | 29.5 |
| **CM65-200C** | 80x65 | 15 | 20 | 45 | - | - | - | - | - | - | - | - | - | - | 43 | 41 | 40.2 | 36.5 | 34 | - |
| **CM65-200B** | 80x65 | 18.5 | 25 | 52 | - | - | - | - | - | - | - | - | - | - | 51 | 49 | 48.2 | 44.5 | 42 | - |
| **CM65-200A** | 80x65 | 22 | 30 | 59 | - | - | - | - | - | - | - | - | - | - | 58 | 56 | 55 | 52 | 49.5 | 44.5 |
| **CM65-250B** | 80x65 | 30 | 40 | 80 | - | - | - | - | - | - | - | - | - | 79.8 | 77.5 | 75.5 | 74.5 | 70 | 66 | 58 |
| **CM65-250A** | 80x65 | 37 | 50 | 92 | - | - | - | - | - | - | - | - | - | 90.5 | 88.5 | 87 | 85 | 80.5 | 78 | 68 |



## MATERIAL DESCRIPTION/*DESCRIPCIÓN DE MATERIAL/DESCRIPTION DU MATÉRIEL*

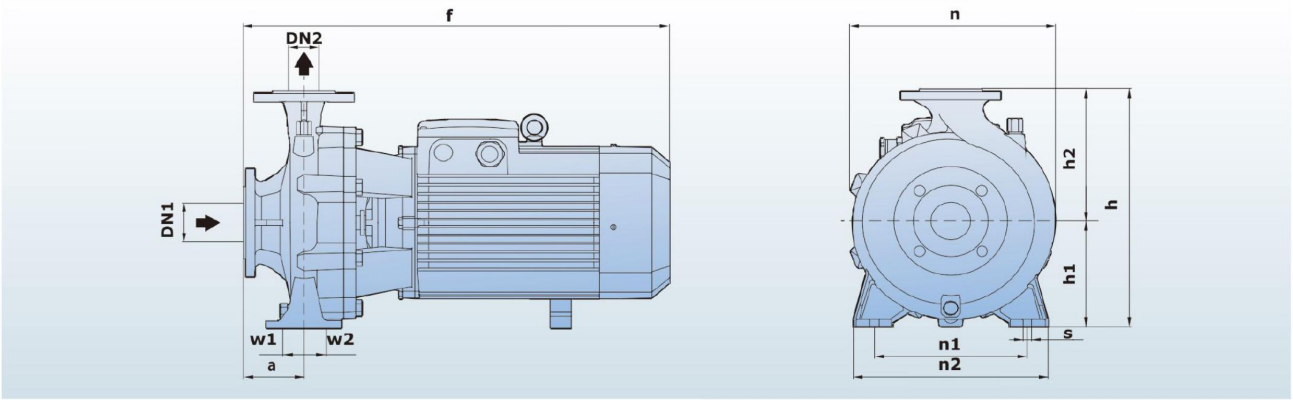



| No. | Description<br>*Descripción*<br>*Description* | Material<br>*Material*<br>*Matériel* |
|---|---|---|
| 1 | Pump Case<br>*Cuerpo de Bomba*<br>*Boîtier de pompe* | Cast iron<br>*Fundición*<br>*Fonte* |
| 2 | Impeller<br>*Impulsor*<br>*Roue* | SS304/Cast iron<br>*Inox304/Fundición*<br>*Inox304/ Fonte* |
| 3 | Mechanical Seal<br>*Cierre Mecánico*<br>*Garniture mécanique* | SiC/Carbon/SS304<br>*SiC/Grafito/Inox304*<br>*SiC/Carbon/Inox304* |
| 4 | O-ring<br>*Junta Tórica*<br>*Joint torique* | Rubber<br>*Caucho*<br>*Caoutchouc* |
| 5 | Connection<br>*Conexión*<br>*Lien* | Cast iron<br>*Fundición*<br>*Fonte* |
| 6 | Reinforced Seal<br>*Sello Reforzado*<br>*Joint renforcé* | Rubber<br>*Caucho*<br>*Caoutchouc* |
| 7 | Shaft<br>*Eje*<br>*Arbre* | SS304/45# Steel<br>*Inox 304/45# Hierro*<br>*Inox304/45 #Acier* |
| 8 | Bearing<br>*Rodamiento*<br>*Palier* | Ball Bearing<br>*Bola Rodamiento*<br>*Roulement à billes* |
| 9 | Wound Stator/Rotor<br>*Estator / Rotor*<br>*Stator / Rotor blessure* | Silicon Steel/Copper<br>*Acero al Silicio/Cobre*<br>*Acier au silicium/Cuivre* |

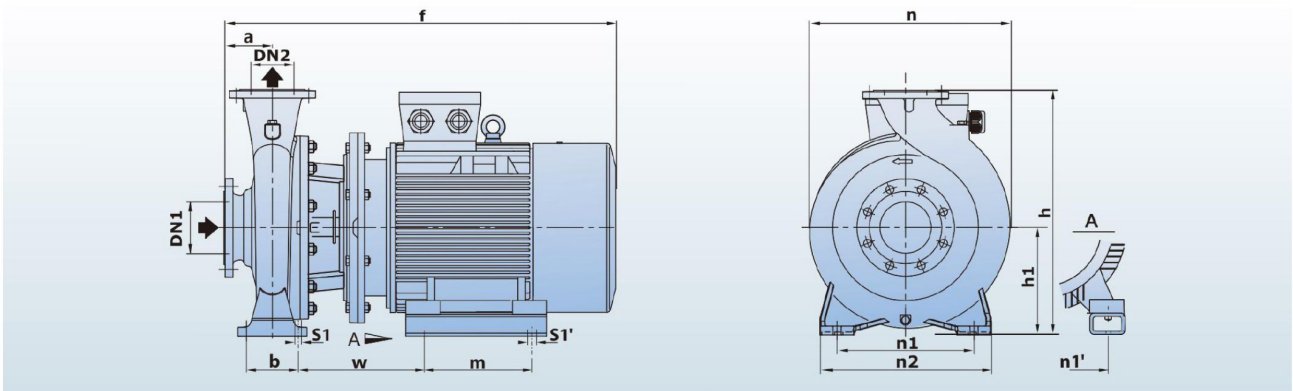
| No. | Description<br>*Descripción*<br>*Description* | Material<br>*Material*<br>*Matériel* |
|---|---|---|
| 10 | Motor Case<br>*Cuerpo de Motor*<br>*Boîtier du moteur* | Aluminum<br>*Aluminio*<br>*Aluminium* |
| 11 | Support Foot<br>*Soporte Pie*<br>*Pied de support* | Plastic<br>*Plástico*<br>*Plastique* |
| 12 | Back Cover<br>*Tapa Trasera*<br>*Quatrième de couverture* | Cast iron<br>*Fundición*<br>*Fonte* |
| 13 | Reinforced Seal<br>*Sello Reforzado*<br>*Joint renforcé* | Rubber<br>*Caucho*<br>*Caoutchouc* |
| 14 | Fan Cover<br>*Tapa Ventilador*<br>*Couvercle de ventilateur* | Aluminum<br>*Aluminio*<br>*Aluminium* |
| 15 | Fan<br>*Ventilador*<br>*Ventilateur* | Plastic<br>*Plástico*<br>*Plastique* |
| 16 | Through Bolt<br>*Perno*<br>*Traversant le boulon* | Steel<br>*Acero*<br>*Acier* |
| 17 | Terminal Box<br>*Caja de Bornas*<br>*Boîte à bornes* | Aluminum<br>*Aluminio*<br>*Aluminium* |
| 18 | *Terminal Board*<br>*Tablero de Bornas*<br>*Terminal Board* | Plastic<br>*Plástico*<br>*Plastique* |

| No. | Description<br>*Descripción*<br>*Description* | Material<br>*Material*<br>*Matériel* |
|---|---|---|
| 19 | Impeller Key<br>*Chaveta Impulsor*<br>*Clé de roue* | Iron<br>*Hierro*<br>*Le fer* |
| 20 | Water Deflector<br>*Deflector*<br>*Déflecteur d'eau* | Rubber<br>*Caucho*<br>*Caoutchouc* |
| 21 | Connection Bolt<br>*Perno*<br>*Boulon de connexion* | Steel<br>*Acero*<br>*Acier* |
| 22 | Impeller Nut<br>*Tuerca de Impulsor*<br>*Écrou de roue* | Galvanizated Steel<br>*Acero Galvanizado*<br>*Acier Galvanisé* |
| 23 | Release Valve<br>*Tapón Cebado*<br>*Soupape de décharge* | Brass<br>*Bronce*<br>*Laiton* |
| 24 | Gasket<br>*Empague*<br>*Joint* | Rubber<br>*Caucho*<br>*Caoutchouc* |
| 25 | Counter Flange<br>*Contra Brida*<br>*Contre bride* | Galvanizated Cast iron<br>*Fundición Galvanizado*<br>*Fonte Galvanisée* |
| 26 | Flange Bolt<br>*Perno de Brida*<br>*Boulon à bride* | Steel<br>*Acero*<br>*Acier* |
| | | |

## DIMENSIONS AND WEIGHT/*DIMENSIONES Y PESOS/DIMENSIONS ET POIDS*




| MODEL *MODELO MODÈLE* | DIMENSIONS/*DIMENSIONES/DIMENSIONS* mm | | | | | | | | | | | | | kg |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | DN1 | DN2 | a | f | h | h1 | h2 | n | n1 | n2 | w1 | w2 | s | 3~ |
| **CM32-160C** | 50 | 32 | 83 | 435 | 295 | 133 | 162 | 245 | 190 | 245 | 35 | 35 | 15 | **34** |
| **CM32-160B** | | | | | | | | | | | | | | **39** |
| **CM32-160A** | | | 82 | 490 | 342 | 161 | 181 | 265 | 190 | 240 | | | | **52** |
| **CM32-200C** | | | | | | | | | | | | | | **53** |
| **CM32-200B** | | | 88 | 590 | 405 | 186 | 219 | 333 | 250 | 328 | 49 | 49 | 16 | **66** |
| **CM32-200A** | | | | | | | | | | | | | | **73** |
| **CM40-160C** | 65 | 40 | 80 | 490 | 305 | 135 | 170 | 250 | 190 | 241 | 37 | 37 | 15 | **48** |
| **CM40-160B** | | | | | | | | | | | | | | **50** |
| **CM40-200B/200A** | | | 102 | 560 | 345 | 162 | 193 | 282 | 214 | 267 | | | | **66/73** |
| **CM40-250B** | | | 94 | 712 | 415 | 186 | 229 | 327 | 250 | 327 | 49 | 49 | | **116** |
| **CM40-250A** | | | | | | | | | | | | | | **146** |
| **CM50-160B/160A** | 65 | 50 | 110 | 560 | 348 | 164 | 193 | 270 | 212 | 262 | 37 | 37 | 15 | **64/71** |
| **CM50-200B** | | | 104 | 722 | 392 | 186 | 206 | 307 | 232 | 310 | | | | **106** |
| **CM50-200A** | | | 102 | 720 | 416 | 186 | 230 | 330 | 250 | 327 | | | | **145** |
| **CM50-250C/250B/250A** | | | | | | | | | | | | | | **148/153/183** |
| **CM65-125B/125A** | 80 | 65 | 104 | 580 | 345 | 162 | 193 | 275 | 212 | 280 | | | | **68/74** |
| **CM65-160B** | | | 110 | 730 | 425 | 186 | 239 | 330 | 232 | 309 | | | | **106** |
| **CM65-160A** | | | | | | | | | | | | | | **134** |
| **CM65-200C/200B/200A** | | | 111 | 740 | | | | | | | | | | **140/145/185** |




| MODEL *MODELO MODÈLE* | DIMENSIONS/*DIMENSIONES/DIMENSIONS* mm | | | | | | | | | | | | | | | kg |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | DN1 | DN2 | a | f | h | h1 | n | n1 | n1' | n2 | b | w | m | s1 | s1' | 3~ |
| **CM65-250B** | 80 | 65 | 116 | 990 | 420 | 180 | 369 | 280 | 318 | 360 | 120 | 278 | 305 | 18 | 18 | **265** |
| **CM65-250A** | 80 | 65 | 116 | 990 | 420 | 180 | 369 | 280 | 318 | 360 | 120 | 278 | 305 | 18 | 18 | **285** |