



FICHA TÉCNICA

Bomba Horizontal Multicelular CHLF

Bomba multicelular horizontal em aço inoxidável AISI 304.



A série CHLF é uma bomba multicelular horizontal em aço inoxidável, compacta e silenciosa, ideal para pressurização doméstica, rega e aplicações industriais. Construída para durabilidade e eficiência energética, a sua estrutura em aço inoxidável AISI 304 garante resistência à corrosão e uma longa vida útil.

APLICAÇÕES

- Ar condicionado e arrefecimento
- Limpeza industrial
- Tratamento de água (purificação)
- Aquacultura
- Sistemas de fertilização
- Aplicações ambientais
- Sistemas de pressurização
- Rega e agricultura

DADOS TÉCNICOS

ESPECIFICAÇÕES TÉCNICAS

| | |
|---|---|
| Tipo | Bomba centrífuga multicelular |
| Bomba multicelular horizontal, entrada axial e saída radial | Bomba multicelular horizontal, entrada axial e saída radial |
| Material | Aço Inoxidável AISI 304 (1.4301) |
| Vedação | Empanque mecânico SiC/Grafite |
| Proteção | IP 55 |
| Isolamento | Classe F |
| Máximo 20 arranques por hora | Máximo 20 arranques por hora |

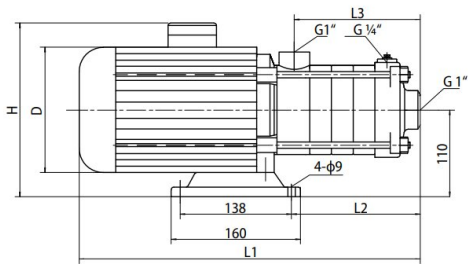
CARACTERÍSTICAS DO MOTOR

| | |
|--------------------|------------------------------------|
| Velocidade Nominal | 2900 rpm |
| Tensão | 1~ 220-240V / 3~ 220-240V/380-415V |
| Eficiência | IE2 (1~) / IE3 (3~ >0.55kW) |
| Normas | ISO 9906, apêndice A |

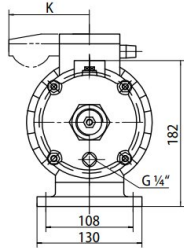
CONDIÇÕES DE UTILIZAÇÃO

| | |
|------------------|---|
| Temp. do líquido | -15°C a 70°C |
| 70°C a 110°C | 70°C a 110°C |
| Temp. Ambiente | Máx. 52°C |
| Pressão Máxima | 10 bar |
| Tipo de líquido | Líquidos limpos, pouco espessos, não-inflamáveis, sem sólidos ou fibras |

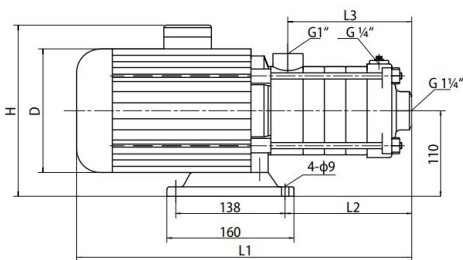
DIMENSÕES



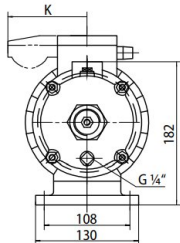
| Modelo | L1 | L2 | L3 | H (1Ø) | H (3Ø) | D | K (1Ø) | Peso |
|-----------|-------|-------|-------|--------|--------|-------|--------|------|
| CHLF 2-20 | 305,0 | 87,0 | 84,0 | 230,0 | 215,0 | 145,0 | 96,0 | 15,0 |
| CHLF 2-30 | 323,0 | 105,0 | 102,0 | 230,0 | 215,0 | 145,0 | 96,0 | 15,0 |
| CHLF 2-40 | 341,0 | 123,0 | 120,0 | 230,0 | 215,0 | 145,0 | 96,0 | 15,0 |
| CHLF 2-50 | 359,0 | 141,0 | 138,0 | 230,0 | 215,0 | 145,0 | 96,0 | 15,0 |
| CHLF 2-60 | 422,0 | 159,0 | 156,0 | 245,0 | 225,0 | 170,0 | 100,0 | 17,0 |



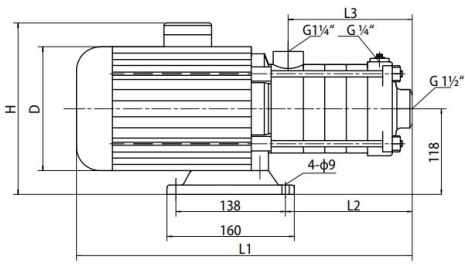
DIMENSÕES



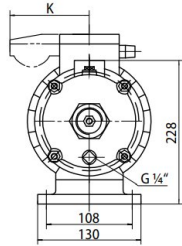
| Modelo | L1 | L2 | L3 | H (1Ø) | H (3Ø) | D | K (1Ø) | Peso |
|-----------|-------|-------|-------|--------|--------|-------|--------|------|
| CHLF 4-20 | 329,0 | 105,0 | 102,0 | 230,0 | 215,0 | 145,0 | 96,0 | 15,0 |
| CHLF 4-30 | 356,0 | 132,0 | 129,0 | 230,0 | 215,0 | 145,0 | 96,0 | 15,0 |
| CHLF 4-40 | 416,0 | 162,0 | 156,0 | 245,0 | 225,0 | 170,0 | 100,0 | 17,0 |
| CHLF 4-50 | 455,0 | 188,0 | 183,0 | 245,0 | 225,0 | 170,0 | 100,0 | 17,0 |
| CHLF 4-60 | 482,0 | 213,0 | 213,0 | 245,0 | 225,0 | 170,0 | 100,0 | 17,0 |



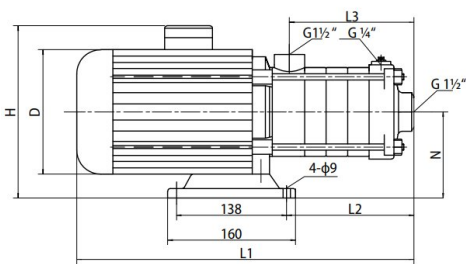
DIMENSÕES



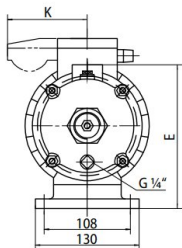
| Modelo | L1 | L2 | L3 | H (1Ø) | H (3Ø) | D | K (1Ø) | Peso |
|-----------|-------|-------|-------|--------|--------|-------|--------|------|
| CHLF 8-10 | 395,0 | 126,0 | 108,0 | 265,0 | 230,0 | 170,0 | 100,0 | 20,0 |
| CHLF 8-20 | 395,0 | 126,0 | 108,0 | 265,0 | 230,0 | 170,0 | 100,0 | 20,0 |
| CHLF 8-30 | 425,0 | 156,0 | 138,0 | 265,0 | 230,0 | 170,0 | 100,0 | 25,0 |
| CHLF 8-40 | 490,0 | 186,0 | 168,0 | 270,0 | 240,0 | 180,0 | 100,0 | 28,0 |
| CHLF 8-50 | 520,0 | 216,0 | 198,0 | 270,0 | 240,0 | 180,0 | 100,0 | 30,0 |



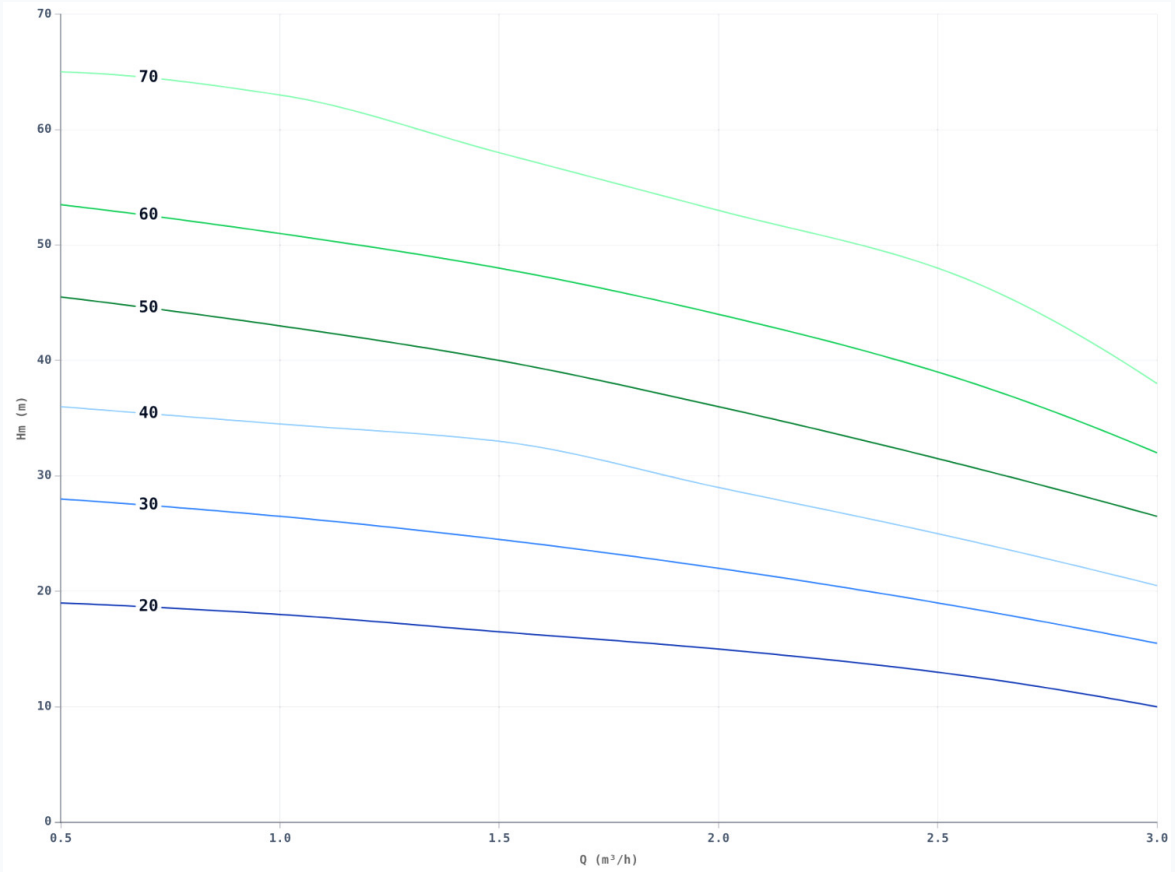
DIMENSÕES



| Modelo | L1 | L2 | L3 | H (1Ø) | H (3Ø) | D | E | N | K (1Ø) | Peso |
|------------|-------|-------|-------|--------|--------|-------|-------|-------|--------|------|
| CHLF 12-10 | 395,0 | 126,0 | 108,0 | 265,0 | 230,0 | 170,0 | 228,0 | 118,0 | 100,0 | 20,0 |
| CHLF 12-20 | 395,0 | 126,0 | 108,0 | 265,0 | 230,0 | 170,0 | 228,0 | 118,0 | 100,0 | 21,0 |
| CHLF 12-30 | 460,0 | 156,0 | 138,0 | 270,0 | 240,0 | 180,0 | 228,0 | 118,0 | 100,0 | 25,0 |
| CHLF 12-40 | 490,0 | 186,0 | 168,0 | 270,0 | 240,0 | 180,0 | 228,0 | 118,0 | 100,0 | 29,0 |
| CHLF 12-50 | 555,0 | 216,0 | 198,0 | 270,0 | 195,0 | 240,0 | 126,0 | 126,0 | 126,0 | 34,0 |



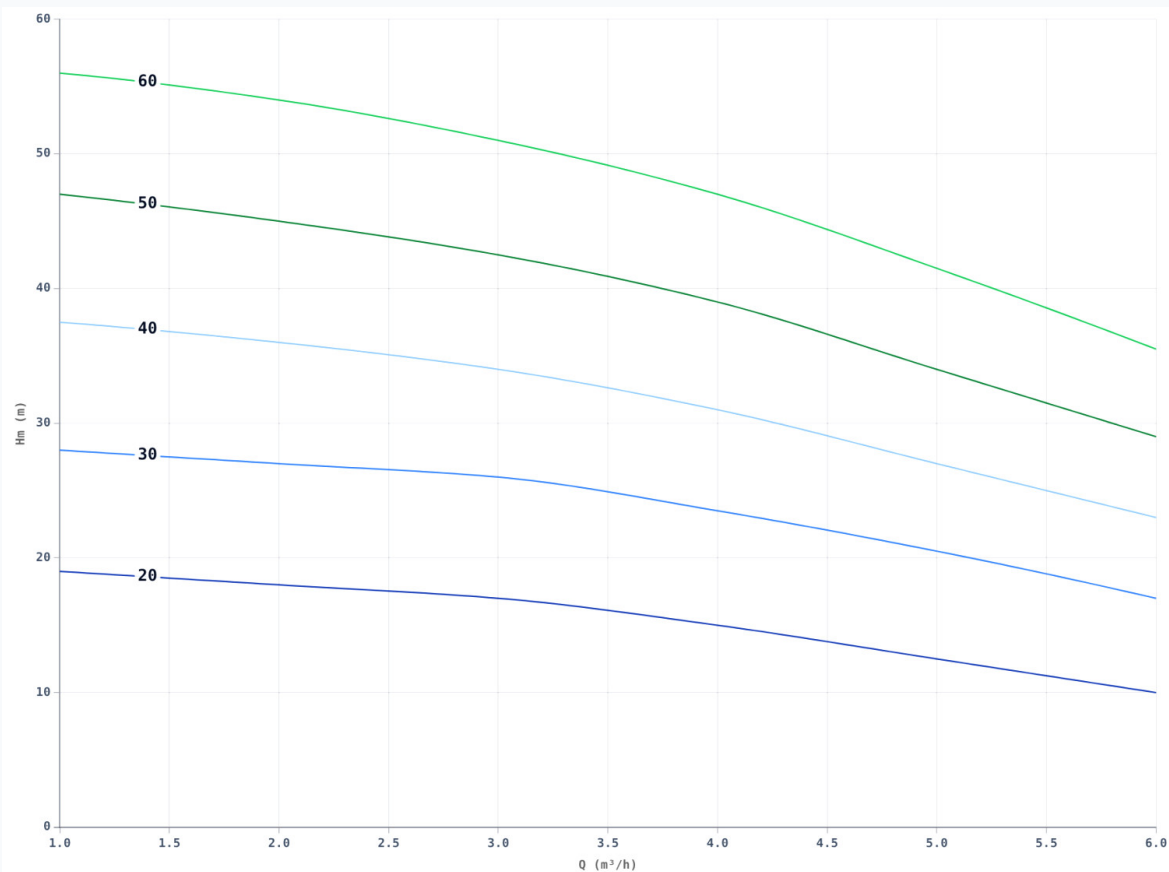
CURVA DE PERFORMANCE (Q - HM)



Curvas de caudal (Q) vs. altura manométrica (Hm)

| Modelo | kW | HP | Amp (1~ / 3~) | m³/h | 0.5 | 1 | 1.5 | 2 | 2.5 | 3 |
|-----------|------|------|------------------|--------|------|------|------|------|------|------|
| | | | | Hm (m) | | | | | | |
| CHLF 2-20 | 0,37 | 0,50 | 2.26 / 1.66-1.49 | | 19,0 | 18,0 | 16,5 | 15,0 | 13,0 | 10,0 |
| CHLF 2-30 | 0,37 | 0,50 | 3.65 / 2.20-2.11 | | 28,0 | 26,5 | 24,5 | 22,0 | 19,0 | 15,5 |
| CHLF 2-40 | 0,55 | 0,75 | 3.65 / 2.20-2.11 | | 36,0 | 34,5 | 33,0 | 29,0 | 25,0 | 20,5 |
| CHLF 2-50 | 0,55 | 0,75 | 3.65 / 2.20-2.11 | | 45,5 | 43,0 | 40,0 | 36,0 | 31,5 | 26,5 |
| CHLF 2-60 | 0,75 | 1,00 | 4.8 / 3.01-2.86 | | 53,5 | 51,0 | 48,0 | 44,0 | 39,0 | 32,0 |
| CHLF 2-70 | 0,75 | 1,00 | 4.2 / 1.7 | | 65,0 | 63,0 | 58,0 | 53,0 | 48,0 | 38,0 |

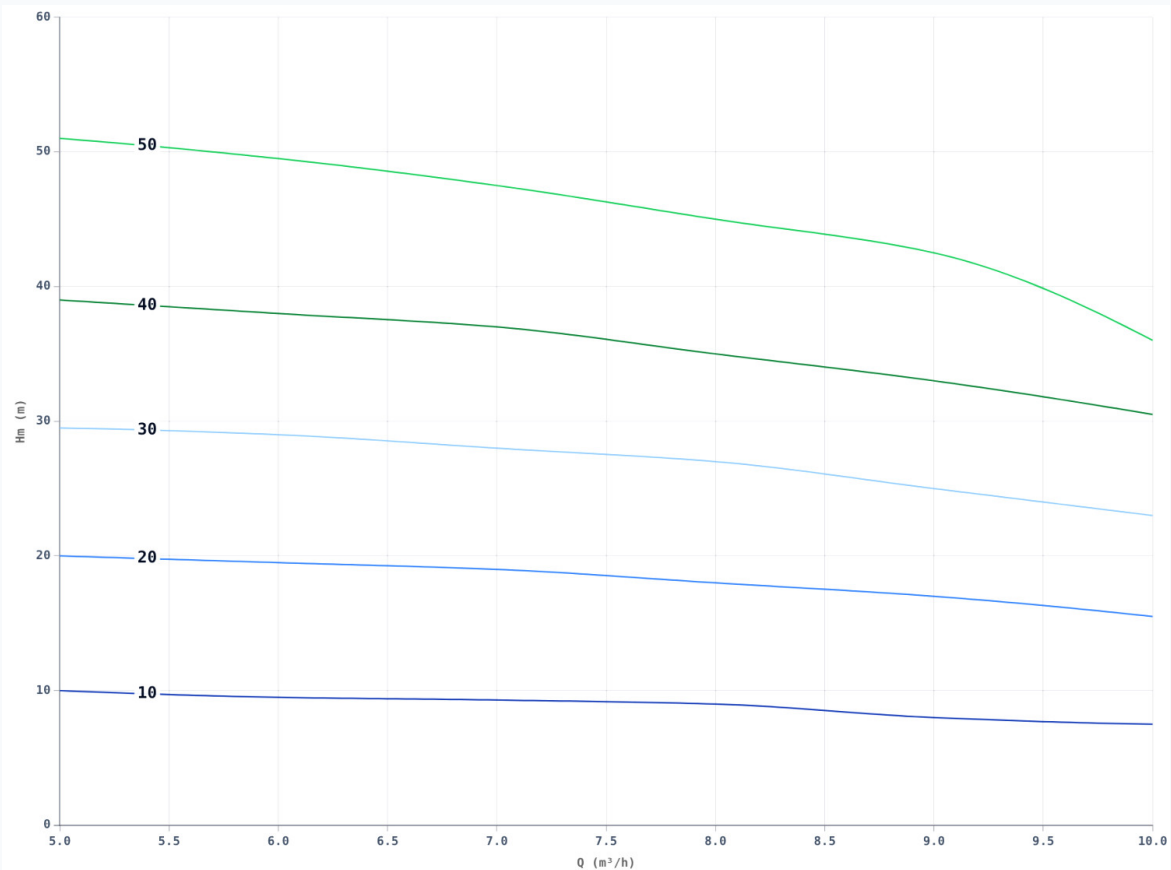
CURVA DE PERFORMANCE (Q - HM)



Curvas de caudal (Q) vs. altura manométrica (Hm)

| Modelo | kW | HP | Amp (1~ / 3~) | m³/h | 1 | 2 | 3 | 4 | 5 | 6 |
|-----------|------|------|-----------------|--------|------|------|------|------|------|------|
| | | | | Hm (m) | | | | | | |
| CHLF 4-20 | 0,37 | 0,50 | 3.65 / 2.2-2.11 | | 19,0 | 18,0 | 17,0 | 15,0 | 12,5 | 10,0 |
| CHLF 4-30 | 0,55 | 0,75 | 3.9 / 2.3-2.2 | | 28,0 | 27,0 | 26,0 | 23,5 | 20,5 | 17,0 |
| CHLF 4-40 | 0,75 | 1,00 | 4.8 / 3.01-2.86 | | 37,5 | 36,0 | 34,0 | 31,0 | 27,0 | 23,0 |
| CHLF 4-50 | 1,10 | 1,50 | 7.0 / 4.16-3.98 | | 47,0 | 45,0 | 42,5 | 39,0 | 34,0 | 29,0 |
| CHLF 4-60 | 1,10 | 1,50 | 7.0 / 4.16-3.98 | | 56,0 | 54,0 | 51,0 | 47,0 | 41,5 | 35,5 |

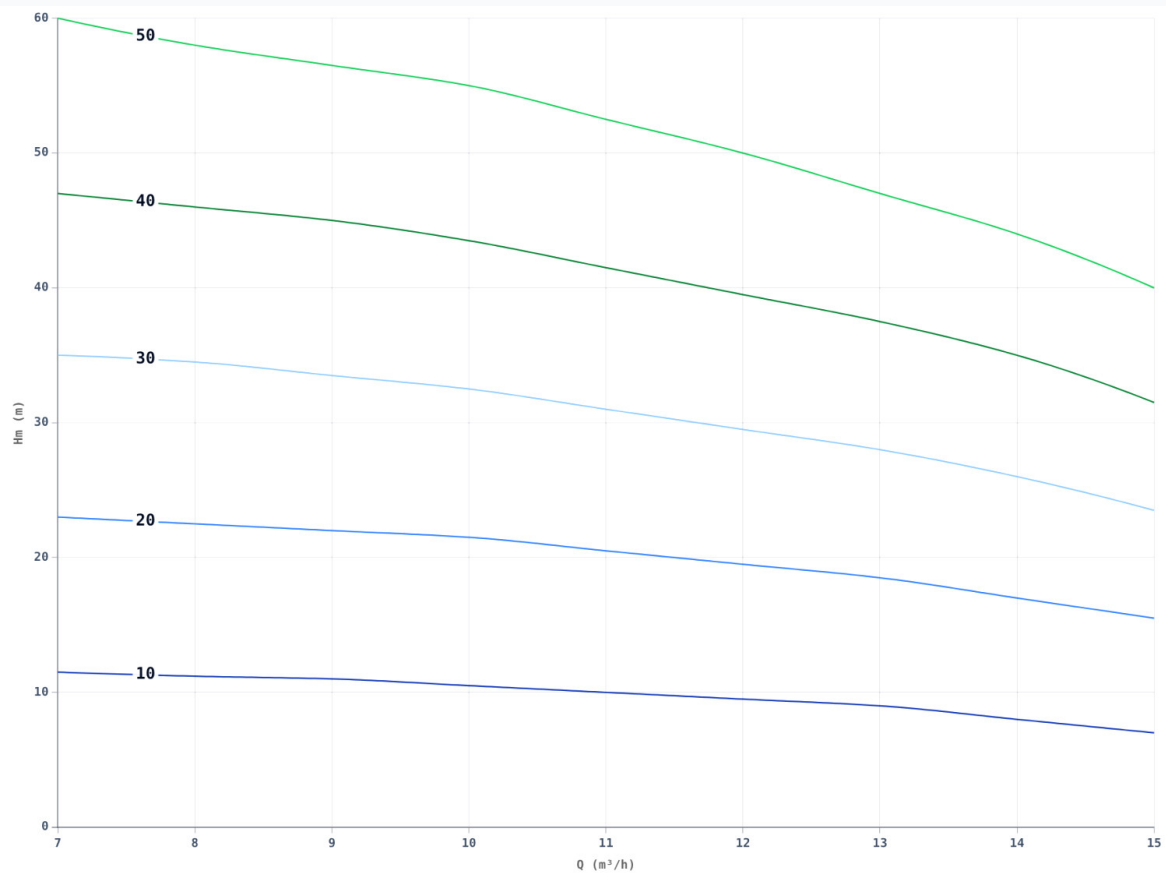
CURVA DE PERFORMANCE (Q - Hm)



Curvas de caudal (Q) vs. altura manométrica (Hm)

| Modelo | kW | HP | Amp (1~ / 3~) | m³/h | 5 | 6 | 7 | 8 | 9 | 10 |
|-----------|------|------|------------------|--------|------|------|------|------|------|------|
| | | | | Hm (m) | | | | | | |
| CHLF 8-10 | 0,75 | 1,00 | 4.8 / 3.01-2.86 | | 10,0 | 9,5 | 9,3 | 9,0 | 8,0 | 7,5 |
| CHLF 8-20 | 0,75 | 1,00 | 4.8 / 3.01-2.86 | | 20,0 | 19,5 | 19,0 | 18,0 | 17,0 | 15,5 |
| CHLF 8-30 | 1,10 | 1,50 | 7.0 / 4.16-3.98 | | 29,5 | 29,0 | 28,0 | 27,0 | 25,0 | 23,0 |
| CHLF 8-40 | 1,50 | 2,00 | 9.1 / 5.96-5.37 | | 39,0 | 38,0 | 37,0 | 35,0 | 33,0 | 30,5 |
| CHLF 8-50 | 2,20 | 3,00 | 12.4 / 8.31-7.67 | | 51,0 | 49,5 | 47,5 | 45,0 | 42,5 | 36,0 |

CURVA DE PERFORMANCE (Q - Hm)



Curvas de caudal (Q) vs. altura manométrica (Hm)

| Modelo | kW | HP | Amp (1~ / 3~) | m³/h | | | | | | | | | |
|------------|------|------|-------------------|--------|------|------|------|------|------|------|------|------|--|
| | | | | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | |
| | | | | Hm (m) | | | | | | | | | |
| CHLF 12-10 | 0,75 | 1,00 | 7-6.4 / 4.5-4.1 | 11,5 | 11,2 | 11,0 | 10,5 | 10,0 | 9,5 | 9,0 | 8,0 | 7,0 | |
| CHLF 12-20 | 1,20 | 1,60 | 7.6-7 / 4.9-4.5 | 23,0 | 22,5 | 22,0 | 21,5 | 20,5 | 19,5 | 18,5 | 17,0 | 15,5 | |
| CHLF 12-30 | 1,80 | 2,50 | 11-10.1 / 7.1-6.5 | 35,0 | 34,5 | 33,5 | 32,5 | 31,0 | 29,5 | 28,0 | 26,0 | 23,5 | |
| CHLF 12-40 | 2,40 | 3,50 | 14.6-13.4 / 9-8.3 | 47,0 | 46,0 | 45,0 | 43,5 | 41,5 | 39,5 | 37,5 | 35,0 | 31,5 | |
| CHLF 12-50 | 3,00 | 4,00 | - / 11-10 | 60,0 | 58,0 | 56,5 | 55,0 | 52,5 | 50,0 | 47,0 | 44,0 | 40,0 | |

LISTA DE MATERIAIS

| Pos. | Descrição | Material | AISI / ASTM |
|------|--------------------|-------------------------|-------------|
| 1 | Entrada | Aço inoxidável | AISI 304 |
| 2 | Bujão | Aço inoxidável | AISI 304 |
| 3 | Rolamento | Carboneto de Tungsténio | - |
| 4 | Impulsor | Aço inoxidável | AISI 304 |
| 5 | Veio | Aço inoxidável | AISI 304 |
| 7 | Saída | Aço inoxidável | AISI 304 |
| 8 | Empanque mecânico | SiC / Grafite | - |
| 9 | Tampa do motor | Alumínio | - |
| 10 | Base de apoio | Aço | AISI 1015 |
| 11 | Porca de aperto | Aço inoxidável | AISI 304 |
| 12 | Difusor | Aço inoxidável | AISI 304 |
| 13 | Suporte do difusor | Aço inoxidável | AISI 304 |
| 14 | Camisa do impulsor | Aço inoxidável | AISI 304 |