



Bomba Vertical Multicelular CDMF

Bombas verticais multicelulares in-line de alta eficiência em aço inoxidável, ideais para pressurização industrial e tratamento de águas.



Ficha Técnica Completa com Dados Técnicos, Dimensões e Curva de Performance

TENSÃO **220-240V (1~) / 380-415V (3~)**



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JOVAL - Marinho Oliveira S.A. | Zona Industrial do Socorro, Lote 10, Fafe

www.joval.pt



Bomba Vertical Multicelular CDMF

Bombas verticais multicelulares in-line de alta eficiência em aço inoxidável, ideais para pressurização industrial e tratamento de águas.



A série CDMF é composta por bombas centrífugas multicelulares verticais de alta eficiência com design in-line (aspiração e compressão no mesmo nível). A construção em aço inoxidável e o selo mecânico de cartucho garantem uma elevada durabilidade e facilidade de manutenção. Estas bombas são ideais para sistemas de pressurização, alimentação de caldeiras, tratamento de águas e aplicações industriais exigentes onde a fiabilidade e a eficiência energética são fundamentais.

APLICAÇÕES

- Processos industriais e transferência de líquidos.
- Sistemas de pressurização hidráulica
- Tratamento de águas
- Irrigação agrícola
- Alimentação de caldeiras
- Sistemas de lavagem e limpeza

DADOS TÉCNICOS

ESPECIFICAÇÕES TÉCNICAS

Tipo	Bomba centrífuga multicelular
Standard	In-line / DIN
Material	Aço Inoxidável (AISI 304 / 316)
Tensão	220-240V (1~) / 380-415V (3~)
Caudal Máximo	32 m³/h
Altura Máxima	250 m
Proteção	IP 55
Isolamento	Classe F
Temp. do líquido	-15°C a +120°C
Pressão Máxima	25 bar / PN25

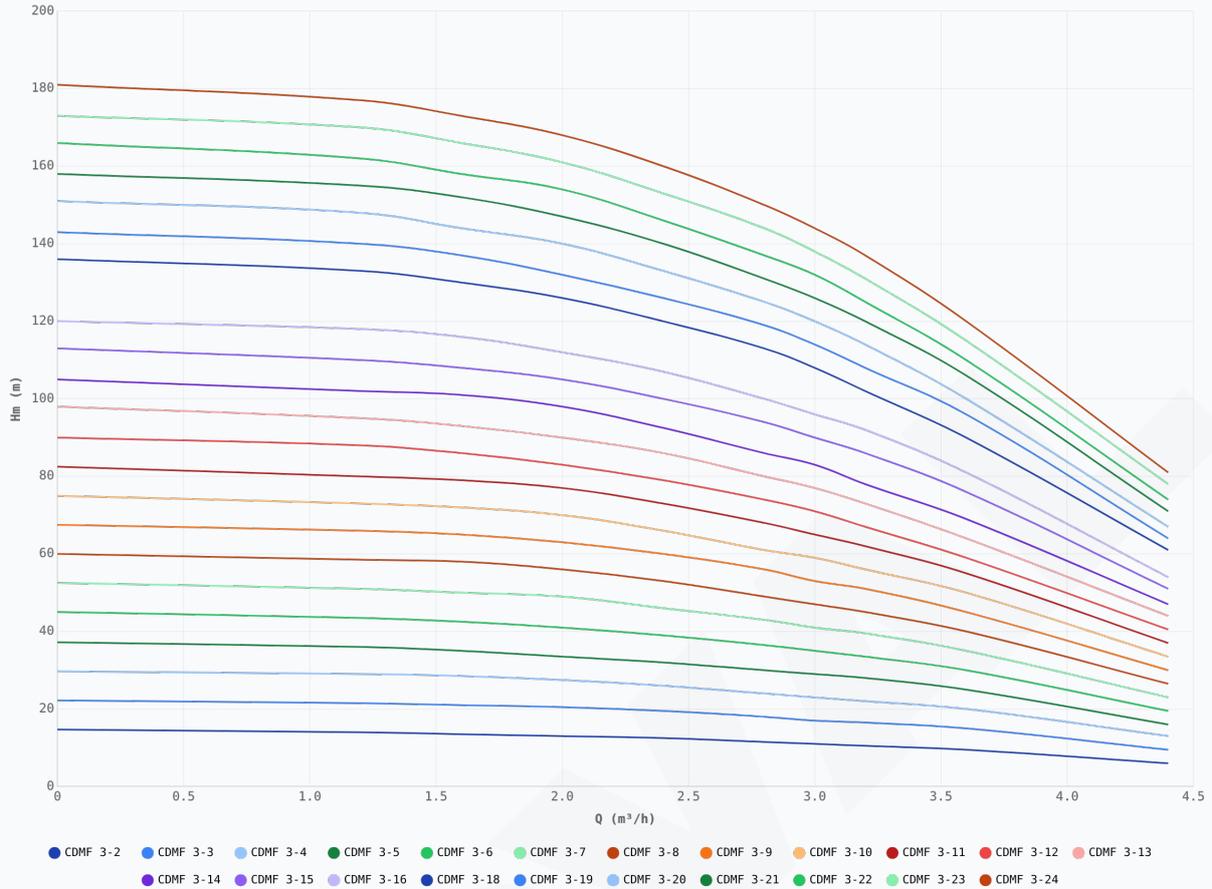
DETALHES TÉCNICOS

NPSH	2 m
Velocidade Nominal	2900 rpm
Normas	CE / ISO 9906
Selo Mecânico	ALLOY/SIC/NBR (Cartridge)
Rendimento do Motor	Up to 87%
Rendimento da Bomba	Up to 72%
Código de Ligação	F (Flange)

DIMENSÕES

Modelo	L	L0	L1	L2	W	W1	D	h	h0
CDMF 3	250,0	210,0	158,0	100,0	240,0	180,0	13,0	75,0	50,0
CDMF 5	250,0	210,0	158,0	100,0	240,0	180,0	13,0	75,0	50,0
CDMF 10	280,0	260,0	192,0	130,0	290,0	215,0	14,0	80,0	80,0
CDMF 15	300,0	260,0	192,0	130,0	290,0	215,0	14,0	90,0	90,0
CDMF 20	300,0	260,0	192,0	130,0	290,0	215,0	14,0	90,0	90,0

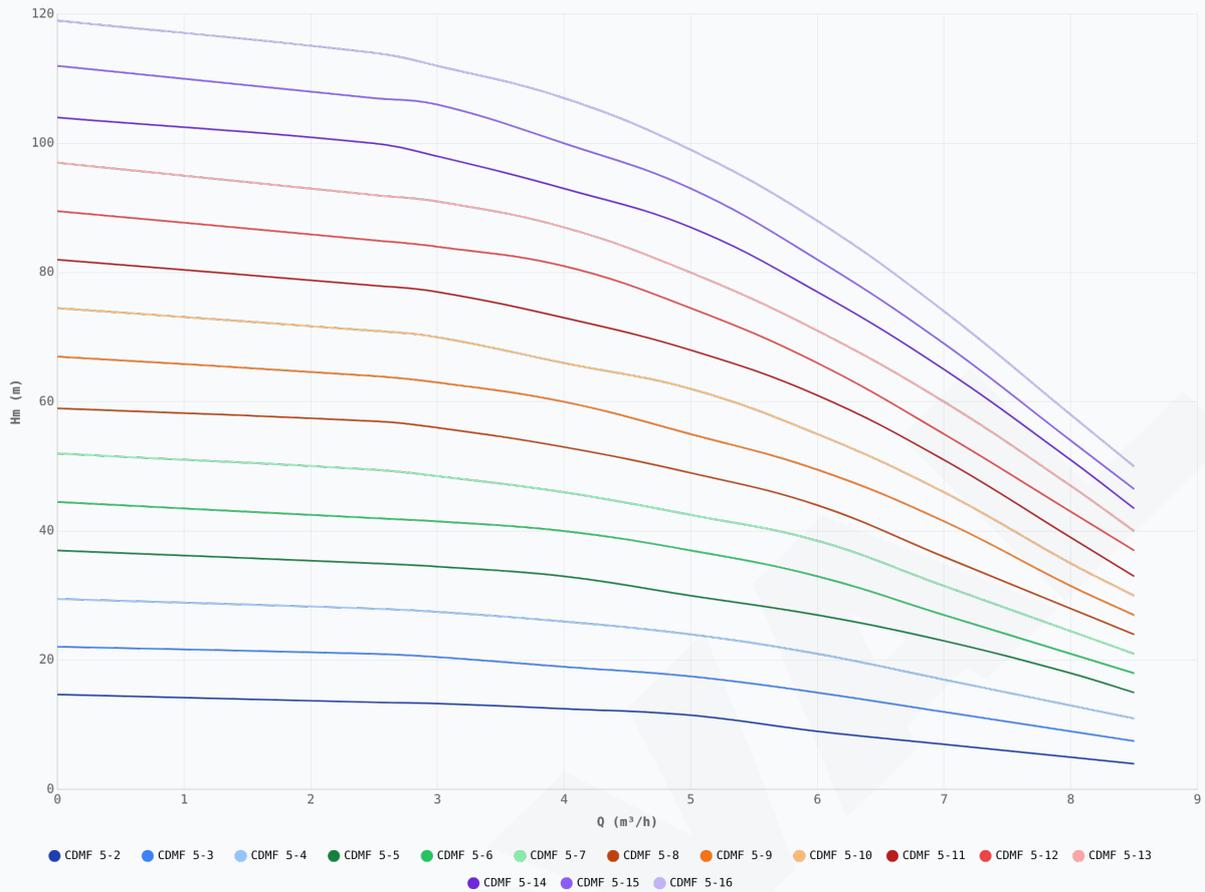
CURVA DE PERFORMANCE (Q - HM)



Modelo	kW	CV	A (1~230V)	Ef. Energ.	m³/h									
					0	1.2	1.6	2	2.4	2.8	3	3.2	3.6	4.4
					Hm (m)									
CDMF 3-2	0,37	0,50	2,10	IE2	14,7	14,0	13,5	13,0	12,5	11,5	11,0	10,5	9,5	6,0
CDMF 3-3	0,37	0,50	2,10	IE2	22,2	21,5	21,0	20,5	19,5	18,0	17,0	16,5	15,0	9,5
CDMF 3-4	0,37	0,50	2,10	IE2	29,7	29,0	28,5	27,5	26,0	24,0	23,0	22,0	20,0	13,0
CDMF 3-5	0,55	0,75	3,65	IE2	37,2	36,0	35,0	33,5	32,0	30,0	29,0	28,0	25,0	16,0
CDMF 3-6	0,55	0,75	3,65	IE2	45,0	43,5	42,5	41,0	39,0	36,5	35,0	33,5	30,0	19,5
CDMF 3-7	0,75	1,00	4,20	IE2	52,5	51,0	50,0	49,0	46,0	43,0	41,0	39,5	35,0	23,0
CDMF 3-8	0,75	1,00	4,20	IE2	60,0	58,5	58,0	56,0	53,0	49,0	47,0	45,0	40,0	26,5
CDMF 3-9	1,10	1,50	6,30	IE2	67,5	66,0	65,0	63,0	60,0	56,0	53,0	51,0	45,0	30,0
CDMF 3-10	1,10	1,50	6,30	IE2	75,0	73,0	72,0	70,0	66,0	61,0	59,0	56,0	50,0	33,5
CDMF 3-11	1,10	1,50	6,30	IE2	82,5	80,0	79,0	77,0	73,0	68,0	65,0	62,0	55,0	37,0
CDMF 3-12	1,10	1,50	6,30	IE2	90,0	88,0	86,0	83,0	79,0	74,0	71,0	67,0	59,0	40,5
CDMF 3-13	1,50	2,00	8,20	IE2	98,0	95,0	93,0	90,0	86,0	80,0	77,0	73,0	64,0	44,0
CDMF 3-14	1,50	2,00	8,20	IE2	105,0	102,0	101,0	98,0	92,5	86,0	83,0	78,0	69,0	47,0
CDMF 3-15	1,50	2,00	8,20	IE2	113,0	110,0	108,0	105,0	100,0	94,0	90,0	86,0	76,0	51,0
CDMF 3-16	1,50	2,00	8,20	IE2	120,0	118,0	116,0	112,0	107,0	100,0	96,0	92,0	81,0	54,0
CDMF 3-18	2,20	3,00	12,10	IE2	136,0	133,0	130,0	126,0	120,0	113,0	108,0	102,0	90,0	61,0

Modelo	kW	CV	A (1~230V)	Ef. Energ.	m³/h									
					0	1.2	1.6	2	2.4	2.8	3	3.2	3.6	4.4
					Hm (m)									
CDMF 3-19	2,20	3,00	12,10	IE2	143,0	140,0	137,0	132,0	126,0	119,0	114,0	108,0	96,0	64,0
CDMF 3-20	2,20	3,00	12,10	IE2	151,0	148,0	144,0	140,0	133,0	125,0	120,0	114,0	100,0	67,0
CDMF 3-21	2,20	3,00	12,10	IE2	158,0	155,0	152,0	147,0	140,0	131,0	126,0	120,0	106,0	71,0
CDMF 3-22	2,20	3,00	12,10	IE2	166,0	162,0	158,0	154,0	146,0	137,0	132,0	125,0	110,0	74,0
CDMF 3-23	2,20	3,00	12,10	IE2	173,0	170,0	166,0	161,0	153,0	144,0	138,0	131,0	115,0	78,0
CDMF 3-24	2,20	3,00	12,10	IE2	181,0	177,0	173,0	168,0	160,0	150,0	144,0	137,0	120,0	81,0

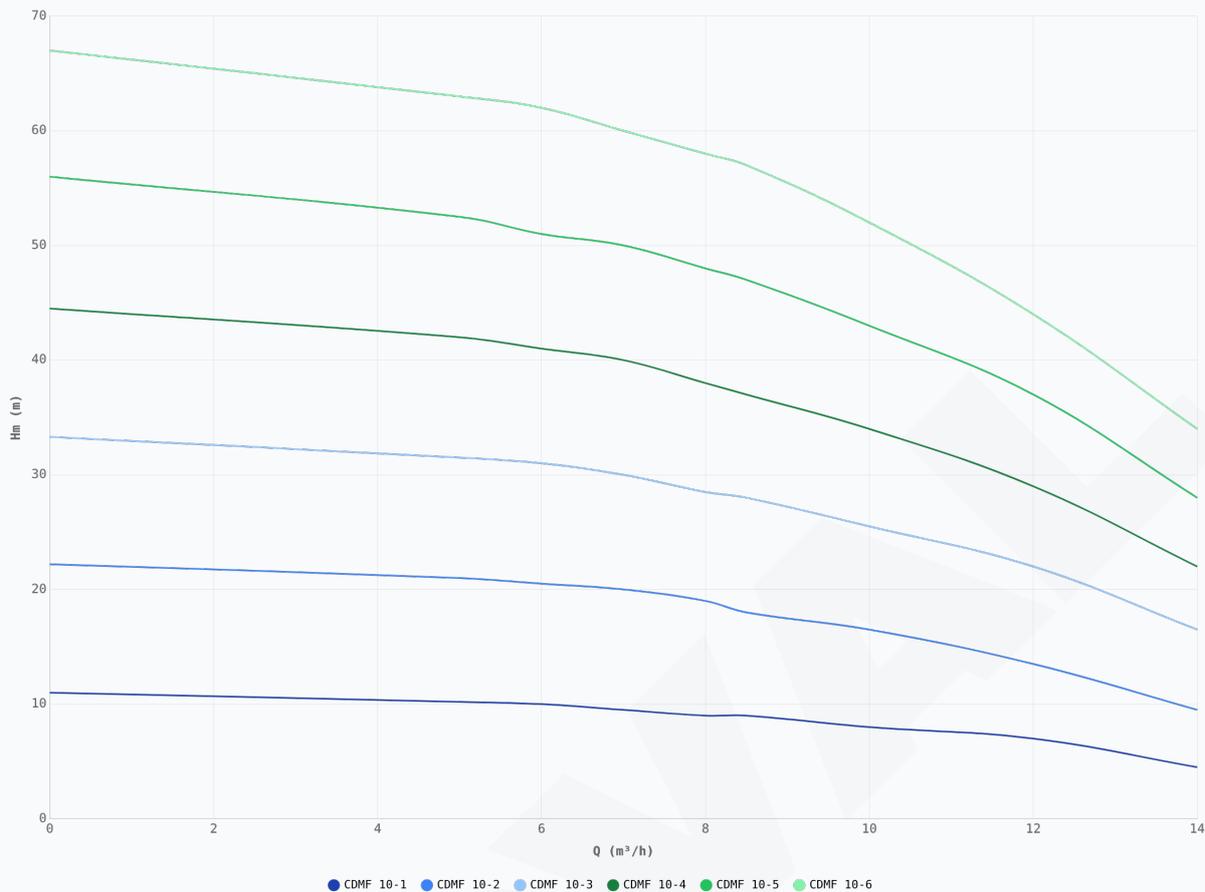
CURVA DE PERFORMANCE (Q - HM)



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

Modelo	kW	CV	A (1~230V)	Ef. Energ.	m³/h								
					0	2.5	3	4	5	6	7	8	8.5
					Hm (m)								
CDMF 5-2	0,37	0,50	2,10	IE2	14,7	13,5	13,3	12,5	11,5	9,0	7,0	5,0	4,0
CDMF 5-3	0,55	0,75	3,65	IE2	22,1	21,0	20,5	19,0	17,5	15,0	12,0	9,0	7,5
CDMF 5-4	0,55	0,75	3,65	IE2	29,5	28,0	27,5	26,0	24,0	21,0	17,0	13,0	11,0
CDMF 5-5	0,75	1,00	4,20	IE2	37,0	35,0	34,5	33,0	30,0	27,0	23,0	18,0	15,0
CDMF 5-6	1,10	1,50	6,30	IE2	44,5	42,0	41,5	40,0	37,0	33,0	27,0	21,0	18,0
CDMF 5-7	1,10	1,50	6,30	IE2	52,0	49,5	48,5	46,0	42,5	38,5	31,5	24,5	21,0
CDMF 5-8	1,10	1,50	6,30	IE2	59,0	57,0	56,0	53,0	49,0	44,0	36,0	28,0	24,0
CDMF 5-9	1,50	2,00	8,20	IE2	67,0	64,0	63,0	60,0	55,0	49,5	41,5	31,5	27,0
CDMF 5-10	1,50	2,00	8,20	IE2	74,5	71,0	70,0	66,0	62,0	55,0	46,0	35,0	30,0
CDMF 5-11	1,50	2,00	8,20	IE2	82,0	78,0	77,0	73,0	68,0	61,0	51,0	39,0	33,0
CDMF 5-12	2,20	3,00	12,10	IE2	89,5	85,0	84,0	81,0	74,5	66,0	55,0	43,0	37,0
CDMF 5-13	2,20	3,00	12,10	IE2	97,0	92,0	91,0	87,0	80,0	71,0	60,0	47,0	40,0
CDMF 5-14	2,20	3,00	12,10	IE2	104,0	100,0	98,0	93,0	87,0	77,0	65,0	51,0	43,5
CDMF 5-15	2,20	3,00	12,10	IE2	112,0	107,0	106,0	100,0	93,0	82,0	69,0	54,0	46,5
CDMF 5-16	2,20	3,00	12,10	IE2	119,0	114,0	112,0	107,0	99,0	88,0	74,0	58,0	50,0

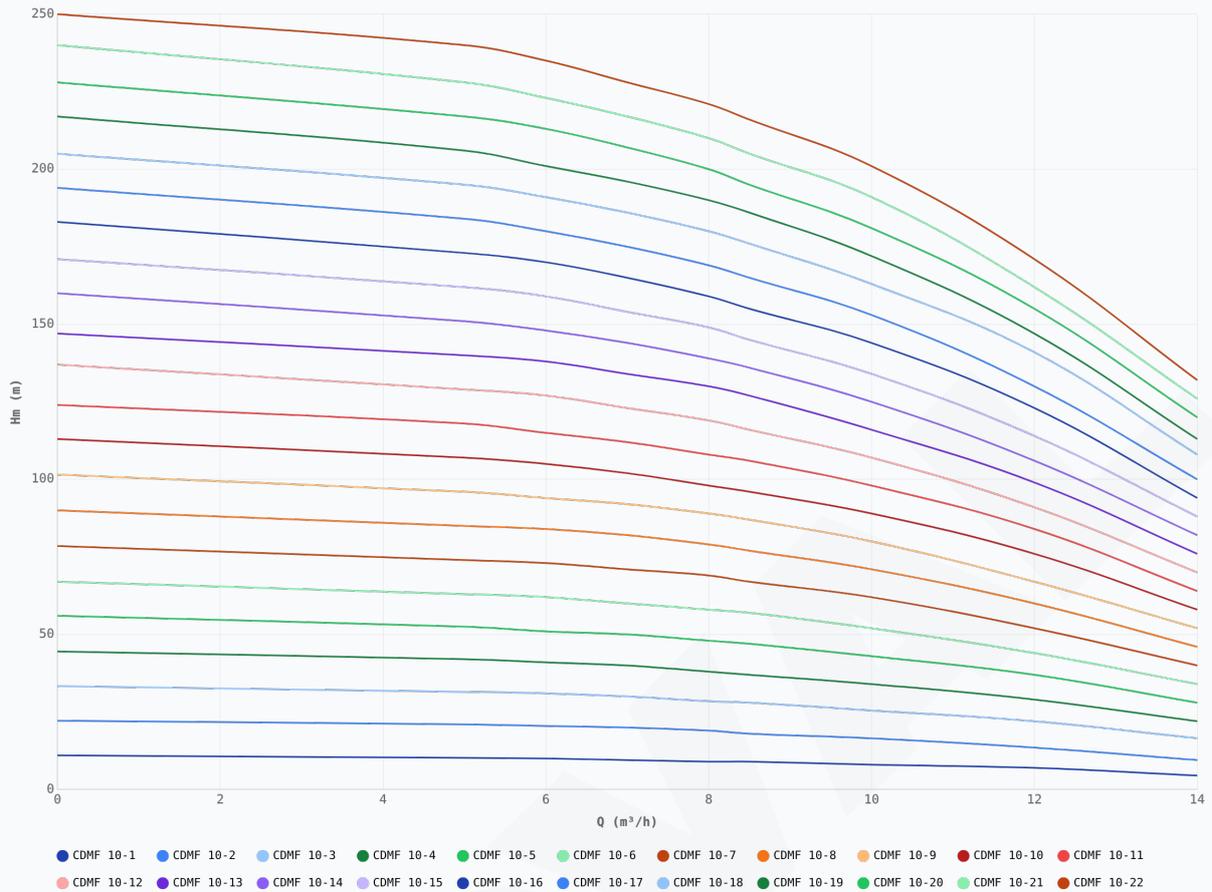
CURVA DE PERFORMANCE (Q - HM)



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

Modelo	kW	CV	A (1~230V)	Ef. Energ.	m³/h								
					0	5	6	7	8	8.5	10	12	14
					Hm (m)								
CDMF 10-1	0,75	1,00	4,20	IE2	11,0	10,2	10,0	9,5	9,0	9,0	8,0	7,0	4,5
CDMF 10-2	0,75	1,00	4,20	IE2	22,2	21,0	20,5	20,0	19,0	18,0	16,5	13,5	9,5
CDMF 10-3	1,10	1,50	6,30	IE2	33,3	31,5	31,0	30,0	28,5	28,0	25,5	22,0	16,5
CDMF 10-4	1,50	2,00	8,20	IE2	44,5	42,0	41,0	40,0	38,0	37,0	34,0	29,0	22,0
CDMF 10-5	2,20	3,00	12,10	IE2	56,0	52,5	51,0	50,0	48,0	47,0	43,0	37,0	28,0
CDMF 10-6	2,20	3,00	12,10	IE2	67,0	63,0	62,0	60,0	58,0	57,0	52,0	44,0	34,0

CURVA DE PERFORMANCE (Q - HM)

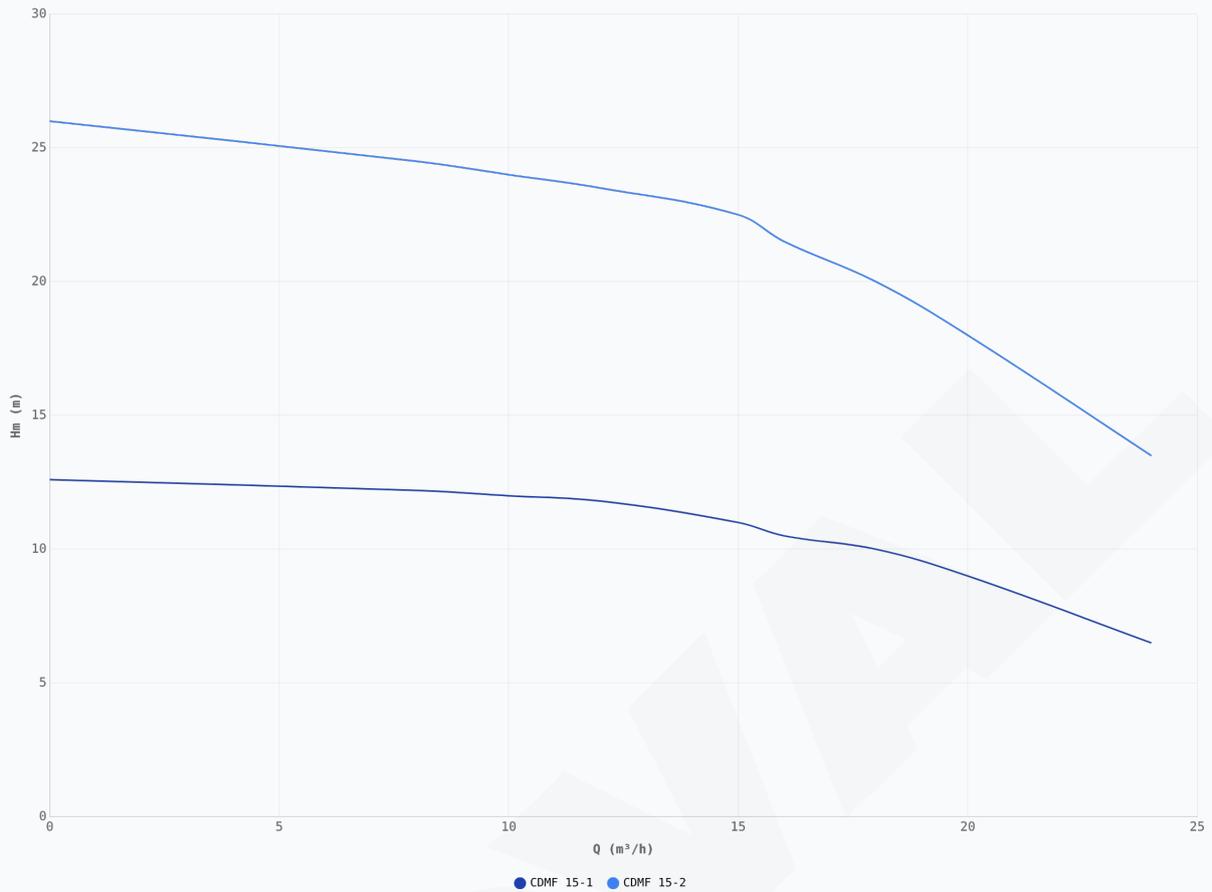


Curvas de caudal (Q) vs. altura manométrica (Hm)

Modelo	kW	CV	A (3~400V)	Ef. Energ.	m³/h								
					0	5	6	7	8	8.5	10	12	14
					Hm (m)								
CDMF 10-1	0,75	1,00	1,70	IE3	11,0	10,2	10,0	9,5	9,0	9,0	8,0	7,0	4,5
CDMF 10-2	0,75	1,00	1,70	IE3	22,2	21,0	20,5	20,0	19,0	18,0	16,5	13,5	9,5
CDMF 10-3	1,10	1,50	2,40	IE3	33,3	31,5	31,0	30,0	28,5	28,0	25,5	22,0	16,5
CDMF 10-4	1,50	2,00	3,20	IE3	44,5	42,0	41,0	40,0	38,0	37,0	34,0	29,0	22,0
CDMF 10-5	2,20	3,00	4,60	IE3	56,0	52,5	51,0	50,0	48,0	47,0	43,0	37,0	28,0
CDMF 10-6	2,20	3,00	4,60	IE3	67,0	63,0	62,0	60,0	58,0	57,0	52,0	44,0	34,0
CDMF 10-7	3,00	4,00	6,00	IE3	78,5	74,0	73,0	71,0	69,0	67,0	62,0	52,0	40,0
CDMF 10-8	3,00	4,00	6,00	IE3	90,0	85,0	84,0	82,0	79,0	77,0	71,0	60,0	46,0
CDMF 10-9	4,00	5,50	7,80	IE3	101,5	96,0	94,0	92,0	89,0	87,0	80,0	67,0	52,0
CDMF 10-10	4,00	5,50	7,80	IE3	113,0	107,0	105,0	102,0	98,0	96,0	89,0	76,0	58,0
CDMF 10-11	4,00	5,50	7,80	IE3	124,0	118,0	115,0	112,0	108,0	106,0	98,0	84,0	64,0
CDMF 10-12	4,50	6,00	8,80	IE3	137,0	129,0	127,0	123,0	119,0	116,0	107,0	91,0	70,0
CDMF 10-13	5,50	7,50	10,60	IE3	147,0	140,0	138,0	134,0	130,0	127,0	116,0	99,0	76,0
CDMF 10-14	5,50	7,50	10,60	IE3	160,0	151,0	148,0	144,0	139,0	136,0	125,0	106,0	82,0
CDMF 10-15	5,50	7,50	10,60	IE3	171,0	162,0	159,0	154,0	149,0	145,0	134,0	114,0	88,0
CDMF 10-16	7,50	10,00	14,40	IE3	183,0	173,0	170,0	165,0	159,0	155,0	144,0	123,0	94,0

Modelo	kW	CV	A (3~400V)	Ef. Energ.	m³/h									
					0	5	6	7	8	8.5	10	12	14	
					Hm (m)									
CDMF 10-17	7,50	10,00	14,40	IE3	194,0	184,0	180,0	175,0	169,0	165,0	153,0	130,0	100,0	
CDMF 10-18	7,50	10,00	14,40	IE3	205,0	195,0	191,0	186,0	180,0	176,0	163,0	141,0	108,0	
CDMF 10-19	7,50	10,00	14,40	IE3	217,0	206,0	201,0	196,0	190,0	186,0	172,0	147,0	113,0	
CDMF 10-20	7,50	10,00	14,40	IE3	228,0	217,0	213,0	207,0	200,0	195,0	181,0	155,0	120,0	
CDMF 10-21	7,50	10,00	14,40	IE3	240,0	228,0	223,0	217,0	210,0	205,0	191,0	162,0	126,0	
CDMF 10-22	11,00	15,00	20,60	IE3	250,0	240,0	235,0	228,0	221,0	216,0	201,0	171,0	132,0	

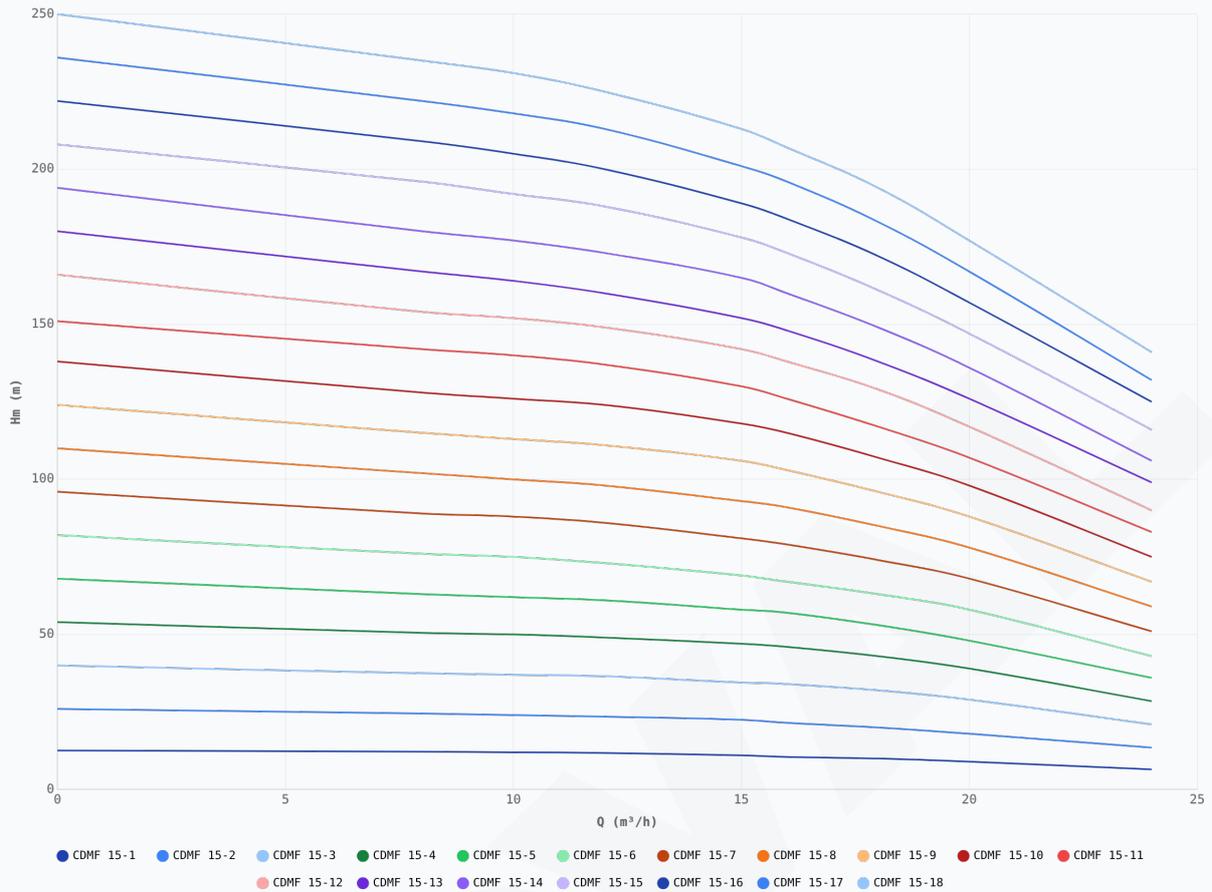
CURVA DE PERFORMANCE (Q - HM)



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

Modelo	kW	CV	A (1~230V)	Ef. Energ.	m³/h								
					0	8	10	12	15	16	18	20	24
					Hm (m)								
CDMF 15-1	1,10	1,50	6,30	IE2	12,6	12,2	12,0	11,8	11,0	10,5	10,0	9,0	6,5
CDMF 15-2	2,20	3,00	12,10	IE2	26,0	24,5	24,0	23,5	22,5	21,5	20,0	18,0	13,5

CURVA DE PERFORMANCE (Q - HM)

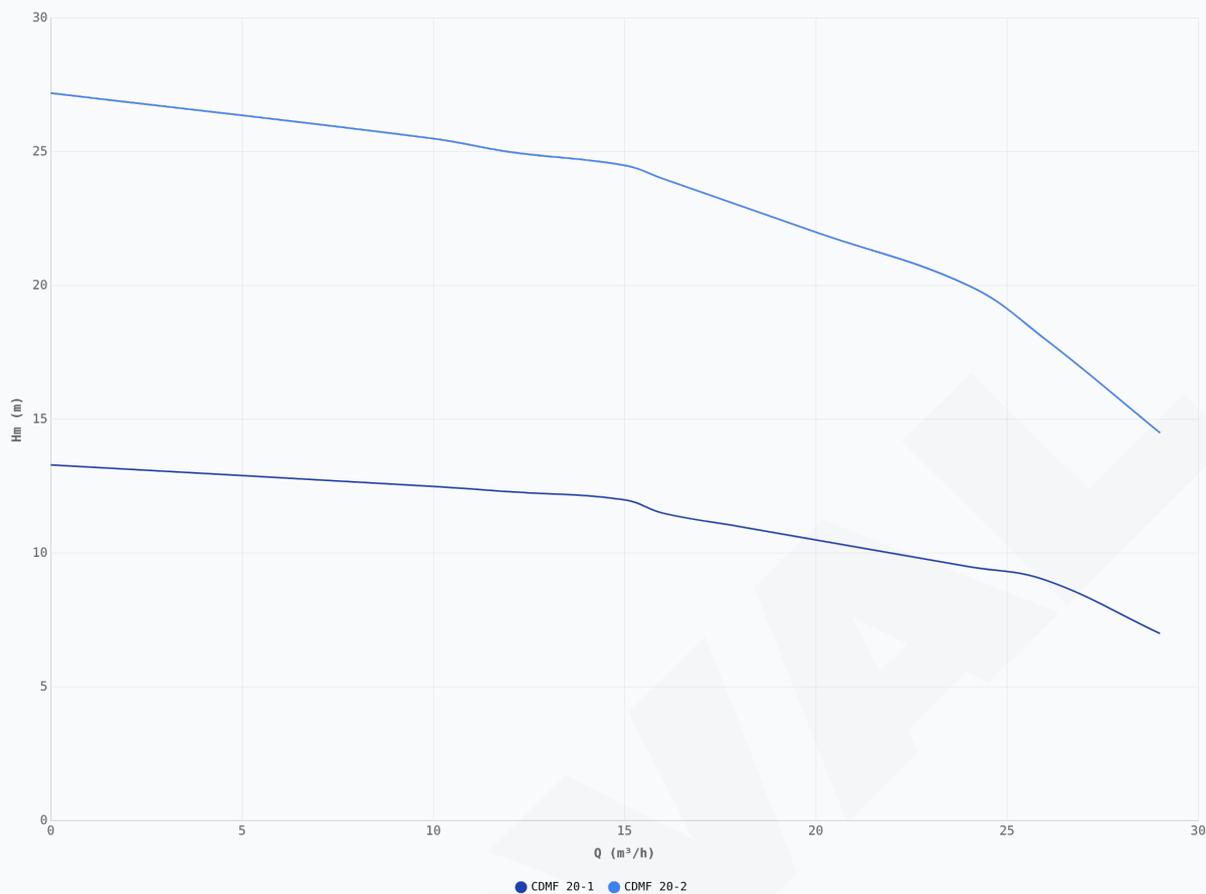


Curvas de caudal (Q) vs. altura manométrica (Hm)

Modelo	kW	CV	A (3~400V)	Ef. Energ.	m³/h								
					0	8	10	12	15	16	18	20	24
					Hm (m)								
CDMF 15-1	1,10	1,50	2,40	IE3	12,6	12,2	12,0	11,8	11,0	10,5	10,0	9,0	6,5
CDMF 15-2	2,20	3,00	4,60	IE3	26,0	24,5	24,0	23,5	22,5	21,5	20,0	18,0	13,5
CDMF 15-3	3,00	4,00	6,00	IE3	40,0	37,5	37,0	36,5	34,5	34,0	32,0	29,0	21,0
CDMF 15-4	4,00	5,50	7,80	IE3	54,0	50,5	50,0	49,0	47,0	46,0	43,0	39,0	28,5
CDMF 15-5	4,00	5,50	7,80	IE3	68,0	63,0	62,0	61,0	58,0	57,0	53,0	48,0	36,0
CDMF 15-6	5,50	7,50	10,60	IE3	82,0	76,0	75,0	73,0	69,0	67,0	63,0	58,0	43,0
CDMF 15-7	5,50	7,50	10,60	IE3	96,0	89,0	88,0	86,0	81,0	79,0	74,0	68,0	51,0
CDMF 15-8	7,50	10,00	14,40	IE3	110,0	102,0	100,0	98,0	93,0	91,0	85,0	78,0	59,0
CDMF 15-9	7,50	10,00	14,40	IE3	124,0	115,0	113,0	111,0	106,0	103,0	96,0	88,0	67,0
CDMF 15-10	11,00	15,00	20,60	IE3	138,0	128,0	126,0	124,0	118,0	115,0	107,0	98,0	75,0
CDMF 15-11	11,00	15,00	20,60	IE3	151,0	142,0	140,0	137,0	130,0	126,0	117,0	107,0	83,0
CDMF 15-12	11,00	15,00	20,60	IE3	166,0	154,0	152,0	149,0	142,0	138,0	129,0	117,0	90,0
CDMF 15-13	11,00	15,00	20,60	IE3	180,0	167,0	164,0	160,0	152,0	148,0	138,0	126,0	99,0
CDMF 15-14	11,00	15,00	20,60	IE3	194,0	180,0	177,0	173,0	165,0	160,0	149,0	136,0	106,0
CDMF 15-15	15,00	20,00	27,90	IE3	208,0	196,0	192,0	188,0	178,0	173,0	161,0	147,0	116,0
CDMF 15-16	15,00	20,00	27,90	IE3	222,0	209,0	205,0	200,0	189,0	184,0	172,0	157,0	125,0

Modelo	kW	CV	A (3~400V)	Ef. Energ.	m³/h								
					0	8	10	12	15	16	18	20	24
					Hm (m)								
CDMF 15-17	15,00	20,00	27,90	IE3	236,0	222,0	218,0	213,0	201,0	196,0	183,0	167,0	132,0
CDMF 15-18	15,00	20,00	27,90	IE3	250,0	235,0	231,0	225,0	213,0	207,0	194,0	177,0	141,0

CURVA DE PERFORMANCE (Q - HM)



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

Modelo	kW	CV	A (1~230V)	Ef. Energ.	m³/h									
					0	10	12	15	16	18	20	24	26	29
					Hm (m)									
CDMF 20-1	1,10	1,50	6,30	IE2	13,3	12,5	12,3	12,0	11,5	11,0	10,5	9,5	9,0	7,0
CDMF 20-2	2,20	3,00	12,10	IE2	27,2	25,5	25,0	24,5	24,0	23,0	22,0	20,0	18,0	14,5

CURVA DE PERFORMANCE (Q - HM)



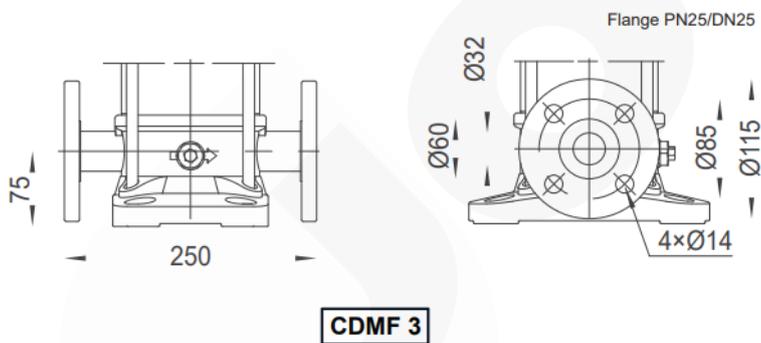
Curvas de caudal (Q) vs. altura manométrica (Hm)

Modelo	kW	CV	A (1~230V)	Ef. Energ.	m³/h									
					0	10	12	15	16	18	20	24	26	29
					Hm (m)									
CDLF 32-10-1	1,10	1,50	8,20	IE2	15,0	14,0	14,0	13,0	12,0	12,0	11,0	9,0	7,0	4,0
CDLF 32-10	2,20	3,00	12,10	IE2	20,0	18,0	18,0	17,0	15,0	15,0	14,0	13,0	11,0	8,0

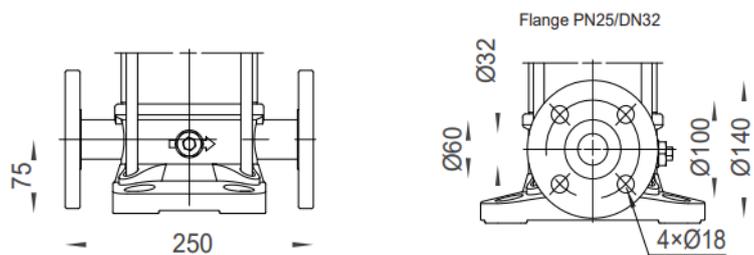
LISTA DE MATERIAIS

Pos.	Descrição	Material (Standard)
1	Motor	-
2	Suporte do motor	Ferro fundido
3	Base do selo	Aço inoxidável (AISI 304/316)
4	Selo mecânico	Tipo cartucho
5	Descarga	Aço inoxidável (AISI 304/316)
6	Tirante	Aço inoxidável (AISI 304/316)
7	Difusor	Aço inoxidável (AISI 304/316)
8	Impulsor	Aço inoxidável (AISI 304/316)
9	Veio	Aço inoxidável (AISI 304/316)
10	Acoplamento	Aço carbono
11	Entrada	Aço inoxidável (AISI 304/316)
12	Placa de base	Ferro fundido

DIMENSÕES FLANGE CDMF 3

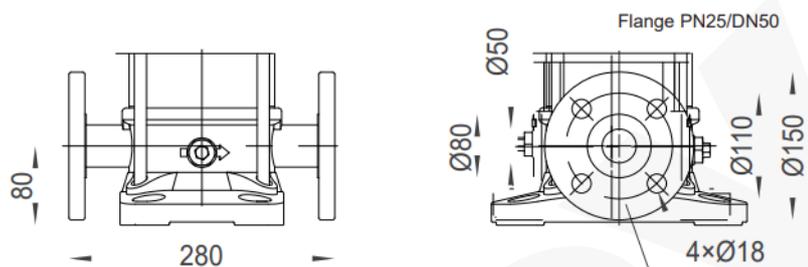


DIMENSÕES FLANGE CDMF 5



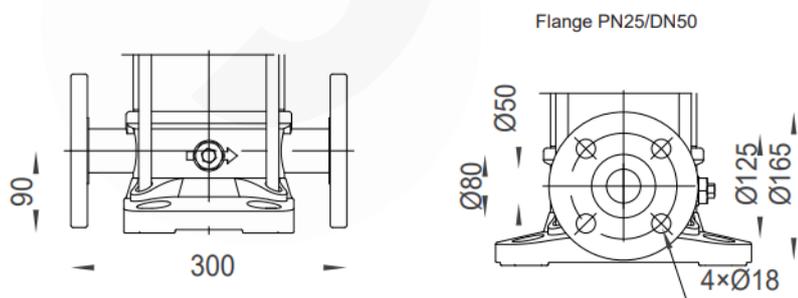
CDMF 5

DIMENSÕES FLANGE CDMF 10



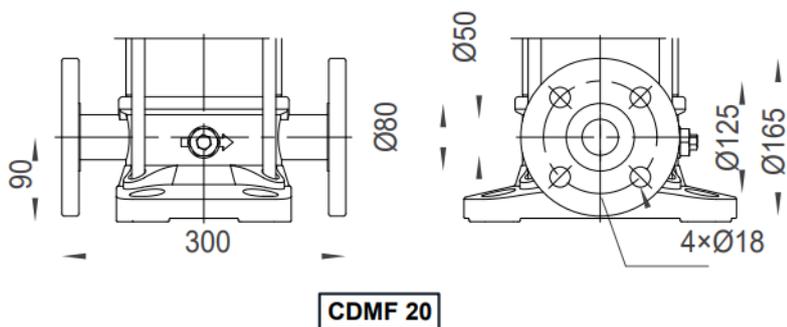
CDMF 10

DIMENSÕES FLANGE CDMF 15



CDMF 15

DIMENSÕES FLANGE CDMF 20



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