



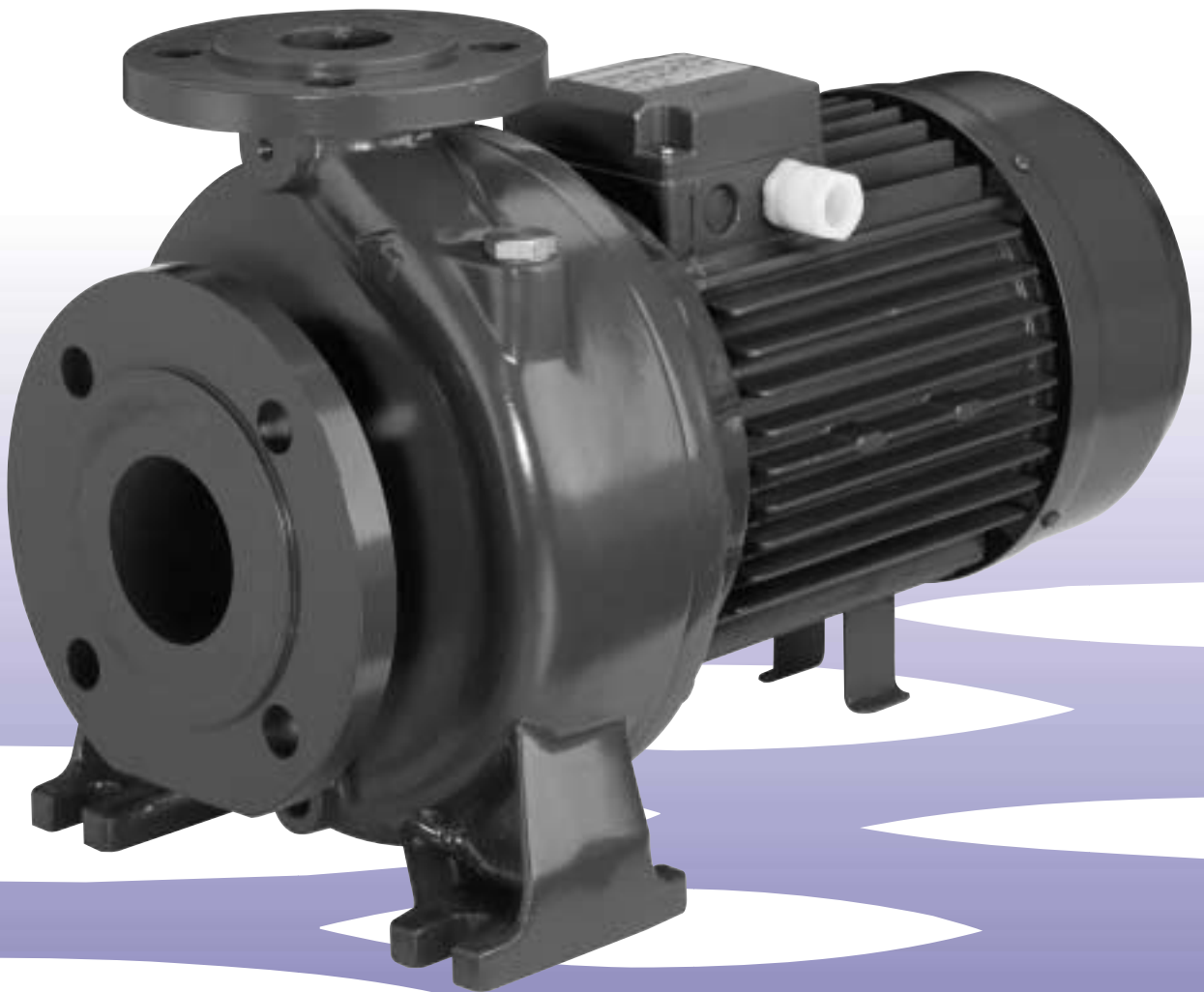
**EBARA**

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# MD-MMD

**MONOBLOCK CENTRIFUGAL PUMPS**

**ELETTROPOMPE CENTRIFUGHE MONOBLOCCO**



## MD-MMD

Close coupled centrifugal pumps for medium and big capacity manufactured according to EN 733 (ex DIN 24255) standards.

## APPLICATION

- **Civil/Domestic Uses:**  
Water supply systems  
Pressure boosting  
Air-conditioning and heating
- **Agriculture:**  
Sprinkler or flow irrigation
- **Industrial:**  
Water supply systems  
Washing plants  
Transfer of non-aggressive liquids

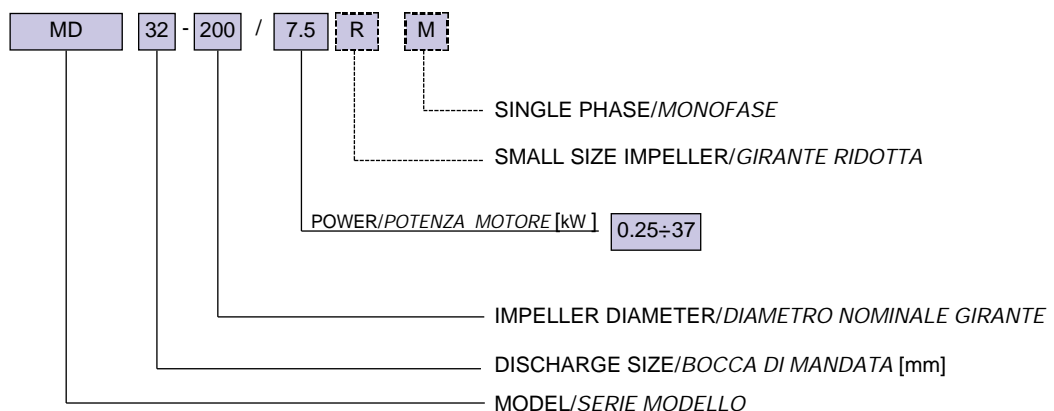
## TECHNICAL CHARACTERISTICS

Back pull-out construction permits assembly and replacement of the impeller, shaft and bearings without removing the casing.

The sturdy structure ensures maximum resistance to the possible misalignment and distortion of pipes.

## IDENTIFICATIONAL CODE

Example: MD-MMD



## MD-MMD

*Elettropompe centrifughe monoblocco per medie e grandi portate costruite rispettando le norme EN 733 (ex DIN 24255).*

## APPLICAZIONI

- **Civili:**  
*Sollevamento acqua  
Impianti di pressurizzazione  
Condizionamento/Riscaldamento*
- **Agricoltura:**  
*Irrigazione a pioggia o a scorrimento*
- **Industriali:**  
*Movimentazione acqua  
Impianti lavaggio  
Travasamento liquidi non aggressivi*

## CARATTERISTICHE TECNICHE

*La particolare costruzione permette il disassemblaggio, la manutenzione del motore e la sostituzione della girante senza dover rimuovere il corpo pompa dall'impianto.*

*La robusta struttura consente la massima resistenza al possibile non allineamento delle tubature di aspirazione e mandata.*

## SIGLA IDENTIFICATIVA

Esempio: MD-MMD

## SPECIFICATIONS

## SPECIFICHE TECNICHE

PUMP/POMPA		
Liquid Handled/Liquido	Type of liquid/Tipo di liquido	Clean water/Acqua pulita
	Max temperature/Temperatura massima [°C]	0÷90° (MD); -10° +130° (MMD)
Flanges/Flange		UNI 2236 - UNI 2223-29 PN 10
Counter flanges (on request)/Controflange (su richiesta)		UNI 2247
Costruction/Costruzione	Impeller/Girante	Closed centrifugal type/Girante chiusa
	Shaft seal Type/Tipo tenuta	Mechanical seal/Tenuta meccanica
	Bearing/Cuscinetti	Sealed ball bearing/Cuscinetti
Pipe connection/Connessioni	Suction/Aspirazione	Flange to DIN 2532 (50 mm-65 mm-80 mm)
	Discharge/Mandata	Flange to DIN 2532 (32 mm-40 mm-50 mm-65 mm)
Material/Materiale	Casing/Corpo pompa	Cast iron/Ghisa
	Impeller/Girante	Cast iron/Ghisa - Bronze/Bronzo
	Casing cover/Supporto	Cast iron/Ghisa
	Shaft seal/Tenuta meccanica	Ceramic/Carbon/NBR (MD) SiC/SiC/EPDM (MMD)
	Shaft/Albero motore	AISI 304 (Part in contact with liquid)/AISI 406 per MMD
	Bracket/motore	Cast iron/Ghisa
Applicable standard of test/Standard di prova		ISO 9906 Annex A

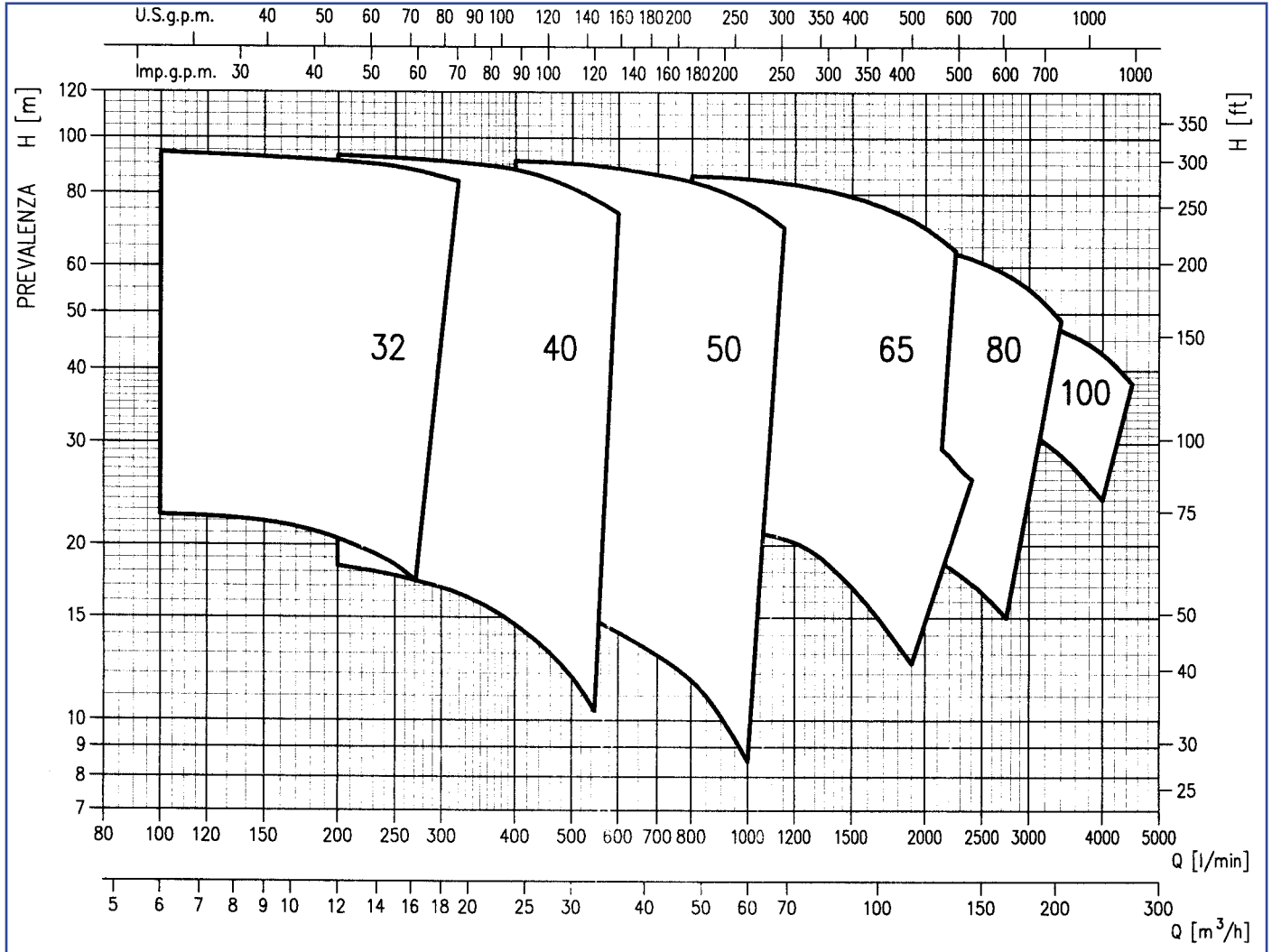
MOTOR/MOTORE			
Type/Tipo	Electric - TEFC		
	Single-Phase/Monofase	Three-Phase/Trifase	
N° of Poles/N° di poli	2(MD)	2(MD-MMD)	4(MMD)
Rotation speed/R.P.M. [min <sup>-1</sup> ]	≈2900	≈2900	≈1450
Insulation class/Classe isolamento	F		
Protection degree/Grado di protezione	IP 55 (MD) - IP 54 (MMD)		
Power rating/Potenze [kW]	1.1 ÷ 2.2	1.1 ÷ 37	0.25 ÷ 37
	[HP]	1.5 ÷ 3	1.5 ÷ 55
Frequency/Frequenza [Hz]	50		
Voltage/Voltaggio [V]	230 ± 10%	230/400 ± 10% (up to 4kW)	
		400/690 ± 10% (5.5 kW and above)	
Capacitor/Condensatore	Built/Incorporato	-	
Overload protection/Protezione	Built/Incorporato	Provided by the user/A cura dell'utente	
Casing material/Materiale corpo pompa	Aluminium/Alluminio		
Base material/Motor support Materiale base/supporto motore	Aluminium/Alluminio - Steel/Acciaio		
Dimension of cable entry/Entrata cavo	PG 13.5 - PG 16 - PG 21		



# SELECTION CHART/CAMPO DI IMPIEGO

MD/MMD 32-40-50-65-80-100

2 POLES/2 POLI



R.P.M./Velocità di rotazione 2900 min<sup>-1</sup>  
 Test fluid/Fluido di prova: Clean water/Acqua pulita a 20°C  
 Applicable standard/Tolleranza secondo: UNI EN ISO 9906 Appendice A

# SELECTION CHART/CAMPO DI IMPIEGO

## PERFORMANCE TABLE/TABELLA PRESTAZIONI

2 POLES/2 POLI

Model/Modello	Motor/Motore		Q=Capacity/Portata																						
	kW	HP	l/min	0	100	200	250	280	320	400	550	600	667	800	1000	1100	1150	1200	1400	1900	2000	2200	2300	2400	
			m <sup>3</sup> /h	0	6	12	15	17	19	24	33	36	40	48	60	66	69	72	84	114	120	132	138	144	
H=Total head/Prevalenza totale [m]																									
MD 32-125/1.1 *	1.1	1.5	23	22.5	20.5	18.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MD 32-125/1.5 *	1.5	2	24	23.5	21.5	19.7	18.5	16.6	12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MD 32-160/1.5 *	1.5	2	28	27	24	22	20.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MD 32-160/2.2 *	2.2	3	35.5	34.5	32	30	28.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MD 32-200/3.0	3	4	43	41	36.5	33	30.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MD 32-200/4.0	4	5.5	52	50.5	47	44.5	42.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MD 32-250/5.5	5.5	7.5	58	57	54	51	49	45	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MD 32-250/7.5	7.5	10	71	70	67	64	62	58	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MD 32-250/9.2	9.2	12.5	84	83	80	78	76	73	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MD 32-250/11	11	15	95	94	91	89	87	84	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MD 40-125/1.5 *	1.5	2	20	19.5	18.4	17.7	17.2	16.5	14.6	10.3	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MD 40-125/2.2 *	2.2	3	25.5	25	23.5	23	22.5	22	20.5	16.9	15.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MD 40-160/3.0	3	4	31.5	30.5	29	28	27.5	26.5	25	21	19	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MD 40-160/4.0	4	5.5	39	38	36.5	36	33.5	35	33	29.5	28	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MD 40-200/5.5	5.5	7.5	48.5	48	47	46	45.5	44.5	42.5	37.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MD 40-200/7.5	7.5	10	58	57.5	56.5	55.5	55	54.5	52.5	47.5	45	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MD 40-250/11	11	15	74.5	-	73	72	71.5	70	66.5	58.5	55	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MD 40-250/13	13	17.5	85.5	-	84	83.5	82.5	81.5	78	69	65	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MD 40-250/15	15	20	94.5	-	93	92	91.5	90.5	88	78	74	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MD 50-125/2.2 *	2.2	3	17.5	-	-	-	-	-	16	14.8	14.3	13.5	11.7	8.5	-	-	-	-	-	-	-	-	-	-	-
MD 50-125/3.0	3	4	21	-	-	-	-	-	19.5	18.6	18.2	17.6	16.1	13	-	-	-	-	-	-	-	-	-	-	-
MD 50-125/4.0	4	5.5	25.5	-	-	-	-	-	24	23	23	22	21	17.8	16	-	-	-	-	-	-	-	-	-	-
MD 50-160/5.5	5.5	7.5	33.5	-	-	-	-	-	32.5	31	30.5	30	28	24.5	22.5	-	-	-	-	-	-	-	-	-	-
MD 50-160/7.5	7.5	10	39	-	-	-	-	-	38	37	36.5	35.5	34	31	29	28	27	-	-	-	-	-	-	-	-
MD 50-200/9.2	9.2	12.5	50	-	-	-	-	-	48	46	45	44	41	36	33	-	-	-	-	-	-	-	-	-	-
MD 50-200/11	11	15	56	-	-	-	-	-	54.5	53	52	51	48.5	43.5	40.5	39	37	-	-	-	-	-	-	-	-
MD 50-250/15	15	20	71	-	-	-	-	-	69	67	66	64	60.5	52.5	47	-	-	-	-	-	-	-	-	-	-
MD 50-250/18.5	18.5	25	82	-	-	-	-	-	80	78.5	77.5	76	72.5	65	60	57	-	-	-	-	-	-	-	-	-
MD 50-250/22	22	30	93	-	-	-	-	-	91	89.5	88.5	87	84	77	72.5	70	-	-	-	-	-	-	-	-	-
MD 65-125/5.5	5.5	7.5	24	-	-	-	-	-	-	-	23.2	23	21.5	22.5	21.5	20.5	20	18.2	12.5	-	-	-	-	-	-
MD 65-125/7.5	7.5	10	27.5	-	-	-	-	-	-	-	26.5	26	25.5	24.5	24	23.5	23	21.5	16.3	15	-	-	-	-	-
MD 65-160/11	11	15	34.5	-	-	-	-	-	-	-	-	34	33.5	33	32.5	32	32	30.5	26.5	25.5	23	22	-	-	-
MD 65-160/15	15	20	39	-	-	-	-	-	-	-	-	-	38	37.5	37	36.5	35	31	30.5	28.5	28.5	27	26	-	-
MD 65-200/18.5	18.5	25	55	-	-	-	-	-	-	-	-	-	53.5	52.5	51.5	51	50.5	48.5	42	40.5	37	-	-	-	
MD 65-200/22	22	30	61	-	-	-	-	-	-	-	-	-	59.5	58.5	58	57.5	57	55.5	50	49	46	-	-	-	-

\*Singlephase version available/Versione disponibile anche monofase

Model/Modello	Motor/Motore		Q=Capacity/Portata														
	kW	HP	l/min	0	800	1000	1250	1500	1750	2000	2250	2500	2750	3000	3500	4000	4500
			m <sup>3</sup> /h	0	48	60	75	90	105	120	135	150	165	180	210	240	270
H=Total head/Prevalenza totale [m]																	
MMD 65-250/22	22	30	65	64	63	61	57	53	-	-	-	-	-	-	-	-	-
MMD 65-250/30	30	40	78	77	76	74	70	66	60	53*	-	-	-	-	-	-	-
MMD 65-250/37	37	55	86.5	86	85	83	79	75	70	64*	-	-	-	-	-	-	-
MMD 80-160/10	10	13.6	24.6	-	24	23	22	21	19.5	18	16.5	15*	-	-	-	-	-
MMD 80-160/12.5	12.5	17	29.5	-	28.5	28	27	26	24.5	23	21.5	20	18.5*	-	-	-	-
MMD 80-160/15	15	20	35	-	34	33.3	32.5	31.8	31	29	27.5	26	24.3	-	-	-	-
MMD 80-200/18.5	18.5	25	42.2	-	42	41	40	38.5	37	35	33	30.5	28	-	-	-	-
MMD 80-200/22	22	30	47.2	-	47	46.5	45.5	44.5	43	41	39	37	34	-	-	-	-
MMD 80-200/30	30	40	55.5	-	55	54	53	52	51	49	47	45	43	37	-	-	-
MMD 80-200/37	37	55	57.5	-	57	56.8	56.5	56	55	54	52.5	51	48	42	-	-	-
MMD 80-250/37	37	55	68.5	-	-	67.5	67	62.2	65	63.3	61	58.3	55	47	-	-	-
MMD 100-200/22	22	30	40	-	-	-	38.5	38	37	36	34.5	33	31.5	28	24	-	-
MMD 100-200/30	30	40	48	-	-	-	47	46.3	45.6	44.8	43.7	42.4	41	38	34.6*	30**	-
MMD 100-200/37	37	55	54.2	-	-	-	53.7	53.3	53	52	51	50	49	46	43*	38**	-

\*Suction head has not to exceed 2 m / L'altezza manometrica di aspirazione non deve superare i 2 m.

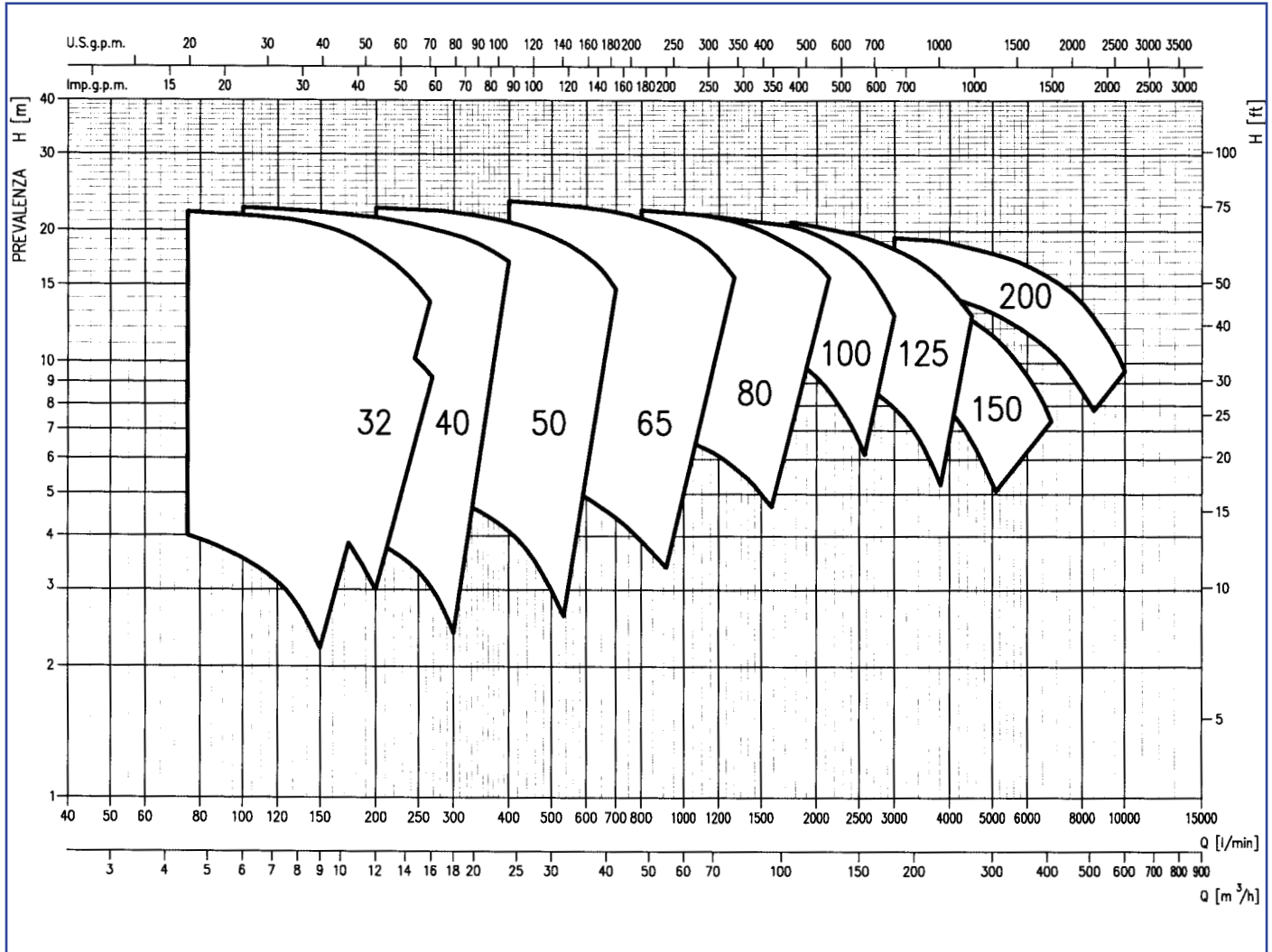
\*\*Positive 1 m suction head/Aspirazione con battente positivo di 1 m.



# SELECTION CHART/CAMPO DI IMPIEGO

MMD4 32-40-50-65-80-100-125-150-200

4 POLES/4 POLI



R.P.M./Velocità di rotazione 2900 min<sup>-1</sup>  
 Test fluid/Fluido di prova: Clean water/Acqua pulita a 20°C  
 Applicable standard/Tolleranza secondo: UNI EN ISO 9906 Appendice A

# SELECTION CHART/CAMPO DI IMPIEGO

## PERFORMANCE TABLE/TABELLA PRESTAZIONI

4 POLES/4 POLI

Model/Modello	Motor/Motore		Q=Capacity/Portata																																	
	kW	HP	H=Total head/Prevalenza totale [m]																																	
			l/min m³/h	0	50	75	100	125	150	175	200	225	250	275	300	350	400	450	500	550	600	650	700	800	900	1000	1100	1200	1300	1400	1500	1750	2000	2250		
MMD4 32-125/0,25 R	0.25	0.33	4.8	4.4	4	3.5	3	2.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
MMD4 32-125/0,25	0.25	0.33	6.3	6.2	6.1	5.8	5.3	4.6	3.8	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
MMD4 32-160/0,37	0.37	0.5	9.6	-	9.2	8.9	8.3	7.7	6.8	5.8	4.7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
MMD4 32-200/0,75	0.75	1.0	13.5	-	12.8	12.4	11.9	11.3	10.6	9.8	8.9	8	7	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
MMD4 32-200/0,92	0.92	1.25	15	-	14.6	14.3	13.8	13.3	12.7	11.8	10.9	10	9	8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
MMD4 32-250/1,1	1.1	1.5	19	-	18.5	18	17.5	17	15.9	14.5	12.8	11	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
MMD4 32-125/1,5	1.5	2	22.5	-	22	21.6	21.2	20.5	19.4	18	16.5	15	13*	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
MMD4 40-125/0,25	0.25	0.33	4.8	-	4.6	4.5	4.3	4.1	3.9	3.6	3.3	2.9	2.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
MMD4 40-125/0,37	0.37	0.5	6.4	-	6.3	6.2	6.1	6	5.8	5.5	5.2	4.9	4.4	3*	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
MMD4 40-160/0,55	0.55	0.75	9.2	-	8.8	8.6	8.4	8.1	7.7	7.3	6.9	6.4	5.9	4.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
MMD4 40-200/1,1 R	1.1	1.5	12.9	-	12.7	12.5	12.1	11.7	11.2	10.7	10.1	9.5	8.5	6.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
MMD4 40-200/1,1	1.1	1.5	14.5	-	14.2	14	13.8	13.4	13	12.5	11.8	11	10.2	8.3	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
MMD4 40-250/1,5	1.5	2	18.7	-	18.3	18	17.7	17.4	17	16.7	16.2	15.6	15	13.7	12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
MMD4 40-250/2,2	2.2	3	23.2	-	22.5	22.3	22	21.7	21.4	21.2	20.5	20.2	19.5	18.5	17	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
MMD4 50-125/0,37	0.37	0.5	5.4	-	-	-	5.3	5.3	5.2	5.1	5	4.9	4.8	4.5	4.1	3.6	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
MMD4 50-125/0,55	0.55	0.75	6.5	-	-	-	6.4	6.3	6.3	6.2	6.1	6	5.9	5.5	5.2	4.9	4.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
MMD4 50-160/0,75	0.75	1.0	8.3	-	-	-	-	-	8.1	8	7.9	7.8	7.7	7.4	7	6.6	6	5.1	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
MMD4 50-160/0,92	0.92	1.25	9.1	-	-	-	-	-	9	8.9	8.9	8.8	8.7	8.4	8.1	7.7	7.2	6.4	5.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
MMD4 50-200/1,1	1.1	1.5	12.6	-	-	-	-	-	12.3	12.2	12	11.8	1.5	10.8	10	9	8	7	5.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
MMD4 50-200/1,5	1.5	2	14.3	-	-	-	-	-	14.1	14	13.9	13.7	13.5	12.8	12	11.3	10.2	9	7.8	6.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MMD4 50-250/2,2	2.2	3	19.5	-	-	-	-	-	18.5	18.3	18.1	17.8	17.5	17	16.2	15.5	14.5	13.5	12.5	11.3	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MMD4 50-250/3	3	4	23	-	-	-	-	-	22.5	22.4	22.3	22.2	22	21.5	20.9	20.2	19.4	18.5	17.5	16.3	14.7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MMD4 65-125/0,75	0.75	1.0	6	-	-	-	-	-	-	-	-	-	5.8	5.7	5.6	5.5	5.3	5.1	4.9	4.6	4.4	3.9	-	-	-	-	-	-	-	-	-	-	-	-	-	
MMD4 65-160/1,1	1.1	1.5	8.6	-	-	-	-	-	-	-	-	-	8.5	8.5	8.4	8.3	8.2	8.1	8	7.8	7.4	6.8	5.8	5	-	-	-	-	-	-	-	-	-	-	-	
MMD4 65-160/1,5	1.5	2	10.3	-	-	-	-	-	-	-	-	-	10.2	10.1	10	9.9	9.8	9.6	9.4	9.2	9	8.4	7.5	6.5	-	-	-	-	-	-	-	-	-	-	-	
MMD4 65-200/2,2	2.2	3	12.6	-	-	-	-	-	-	-	-	-	-	-	12.5	12.4	12.3	12.2	12.1	12	11.7	11.1	10.5	9.6	8.5	-	-	-	-	-	-	-	-	-	-	
MMD4 65-200/3	3	4	15.4	-	-	-	-	-	-	-	-	-	-	-	15.3	15.3	15.2	15.1	15	14.8	14.6	14.3	13.6	12.8	12	11	-	-	-	-	-	-	-	-	-	
MMD4 65-250/4	4	5.5	20	-	-	-	-	-	-	-	-	-	-	-	-	19.5	19.3	19.1	18.8	18.5	17.5	16.5	15.5	14	12.5	10.4	-	-	-	-	-	-	-	-	-	
MMD4 65-250/5.5	5.5	7.5	23.3	-	-	-	-	-	-	-	-	-	-	-	-	23	22.8	22.6	22.4	22.2	21.4	20.6	19.7	18.7	17.3	15.7	14	-	-	-	-	-	-	-	-	
MMD4 80-160/1,5	1.5	2	8	-	-	-	-	-	-	-	-	-	-	-	-	-	7.7	7.6	7.5	7.3	7	6.7	6.4	6.1	5.7	5.4	5	-	-	-	-	-	-	-		
MMD4 80-160/2,2	2.2	3	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9.7	9.6	9.5	9.3	9	8.8	8.5	8.2	7.9	7.5	7.1	6	-	-	-	-	-		
MMD4 80-200/3	3	4	12.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	12	11.9	11.7	11.5	11.3	11	10.5	10	9.5	9	8.5	7	-	-	-	-	-	-	
MMD4 80-200/4	4	5.5	14.9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	14.4	14.3	14.2	14	13.8	13.5	13.1	12.6	12.2	11.6	11	9	6.5	-	-	-	-	-	
MMD4 80-250/5,5	5.5	7.5	20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
MMD4 80-250/7,5	7.5	10	23.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

Model/Modello	Motor/Motore		Q=Capacity/Portata																																	
	kW	HP	H=Total head/Prevalenza totale [m]																																	
			l/min m³/h	0	900	1000	1100	1200	1300	1400	1500	1750	2000	2250	2500	2750	3000	3500	3700	4000	4500	5000	5500	6500	7000	8000	8500	9000	9500	10000						
MMD4 100-200/4	4	5.5	13	12.3	12.2	12	11.8	11.6	11.4	11.2	10.3	9.3	8	6.6	4.8*	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
MMD4 100-200/5,5	5.5	7.5	14.7	14.5	14.4	14.2	14	13.8	13.6	13.4	12.8	12	11	9.8	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MMD4 100-250/7,5	7.5	10	20	-	19.5	19.3	19.1	18.9	18.7	18.5	17.5	16.5	15.2	14	12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MMD4 100-250/9.2	9.2	12.5	22.4	-	22	21.9	21.8	21.7	21.6	21.5	20.5	19.5	18.5	17	15	12.8*	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MMD4 125-200/5,5	5.5	5.5	11.2	-	-	-	-	-	-	10.5	10.3	9.9	9.5	9.1	8.5	7.9	6.4	5.7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MMD4 125-200/7.5 R	7.5	10	12.4	-	-	-	-	-	-	11.8	11.6	11.3	11	10.6	10.2	9.6	8.3	7.7	6.7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MMD4 125-200/7.5	7.5	10	13.7	-	-	-	-	-	-	12.9	12.7	12.4	12.1	11.7	11.2	10.1	9.6	8.7	7.1*	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MMD4 125-200/9.2	9.2	12.5	15	-	-	-	-	-	-	14.3	14.1	13.8	13.6	13.2	12.8	11.8	11.3	10.6	9.2	7.6**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MMD4 125-250/11	11	15	18.6	-	-	-	-	-	-	17.2	16.7	16.2	15.5	14.8	13.9	12	11.3	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MMD4 125-250/15	15	20	22	-	-	-	-	-	-	21	20.5	20.1	19.5	18.9	18.2	16.6	16	14.8	12.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MMD4 150-200/7.5	7.5	10	11.6	-	-	-	-	-	-	-	11	10.7	10.4	10.1	9.7	8.8	8.4	7.8	6.6	5.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MMD4 150-200/9.2	9.2	12.5	12.5	-	-	-	-	-	-	12	11.8	11.6	11.2	10.9	10.2	9.8	9.2	8	6.8	5.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MMD4 150-200/11	11	15	14.5																																	

# TECHNICAL DATA/DATI TECNICI

## 2 POLES/2 POLI

Model/Modello	Motor/Motore		Capacity/Condensatore Single Phase Monofase		Input power/Potenza ass. motore [kW]		Full load currenty/Corrente a pieno carico [A]				Locked rotor current/Corrente a rotore bloccato			
							Single Phase/ Monofase		Three Phase/ Trifase		Single phase/ Monofase		Three Phase/ Trifase	
							μF	Vc	Monofase	Trifase	230 V	230 V	400 V	690 V
MD 32-125/1.1	1.1	1.5	31.5	450	1.60	1.55	7.1	5.2	3	-	24	35	20	-
MD 32-125/1.5	1.5	2	40	450	2.05	2.2	9.3	5.9	3.4	-	44	35	20	-
MD 32-160/1.1	1.5	2	40	450	2.28	2.2	10.3	5.9	3.4	-	44	35	20	-
MD 32-160/2.2	2.2	3	50	450	2.91	2.9	13.3	8.7	5	-	70	66	38	-
MD 32-200/3.0	3	4	-	-	-	4	-	12	6.9	-	-	97	56	-
MD 32-200/4.0	4	5.5	-	-	-	5.2	-	16	9.2	-	-	123	71	-
MD 32-250/5.5	5.5	7.5	-	-	-	6.3	-	-	11.2	6.5	-	-	95	55
MD 32-250/7.5	7.5	10	-	-	-	8.3	-	-	14.6	8.4	-	-	124	72
MD 32-250/9.2	9.2	12.5	-	-	-	11	-	-	18.3	10.6	-	-	128	74
MD 32-250/11	11	15	-	-	-	12	-	-	20.7	12	-	-	169	95.6
MD 40-125/1.5	1.5	2	40	450	2.08	2.3	9.5	6	3.5	-	44	35	20	-
MD 40-125/2.2	2.2	3	50	450	2.77	2.9	12.9	8.7	5	-	70	66	38	-
MD 40-160/3.0	3	4	-	-	-	3.8	-	11.4	6.6	-	-	97	56	-
MD 40-160/4.0	4	5.5	-	-	-	5.3	-	17	9.8	-	-	123	71	-
MD 40-200/5.5	5.5	7.5	-	-	-	6.6	-	-	11.5	6.6	-	-	95	55
MD 40-200/7.5	7.5	10	-	-	-	9.1	-	-	15.5	9	-	-	124	72
MD 40-250/11	11	15	-	-	-	12.3	-	-	20.6	11.9	-	-	169	95.6
MD 40-250/13	13	17.5	-	-	-	15.2	-	-	25.3	14.6	-	-	175	101
MD 40-250/15	15	20	-	-	-	17.2	-	-	29.1	16.8	-	-	180	104
MD 50-125/2.2	2.2	3	50	450	2.80	2.9	12.9	8.7	5	-	70	66	38	-
MD 50-125/3.0	3	4	-	-	-	3.6	-	10.7	6.2	-	-	97	56	-
MD 50-125/4.0	4	5.5	-	-	-	4.9	-	15.4	8.9	-	-	123	71	-
MD 50-160/5.5	5.5	7.5	-	-	-	6.7	-	-	11.8	6.8	-	-	95	55
MD 50-160/7.5	7.5	10	-	-	-	8.8	-	-	15	8.7	-	-	124	72
MD 50-200/9.2	9.2	12.5	-	-	-	11.2	-	-	19	11	-	-	128	74
MD 50-200/11	11	15	-	-	-	13.5	-	-	22	12.7	-	-	169	95.6
MD 50-250/15	15	20	-	-	-	17.5	-	-	29.7	17.2	-	-	180	104
MD 50-250/18.5	18.5	25	-	-	-	21	-	-	37.7	21.8	-	-	272	157
MD 50-250/22	22	30	-	-	-	24	-	-	41	23.7	-	-	320	185
MD 65-125/5.5	5.5	7.5	-	-	-	7	-	-	12	6.9	-	-	95	55
MD 65-125/7.5	7.5	10	-	-	-	8.2	-	-	14	8.1	-	-	124	72
MD 65-160/11	11	15	-	-	-	13	-	-	20.8	12	-	-	169	95.6
MD 65-160/15	15	20	-	-	-	16	-	-	27	15.6	-	-	180	104
MD 65-200/18.5	18.5	25	-	-	-	21	-	-	39	22.5	-	-	272	157
MD 65-200/22	22	30	-	-	-	24	-	-	43	24.8	-	-	320	185

Type/Tipo	Power/Potenza Nominale		Full load current/Corrente a pieno carico			I <sub>a</sub> /I <sub>n</sub>
	[kW]	[HP]	230 V	400V	690 V	
MMD 65-250/22	22	30	-	44.5	35.7	6.8
MMD 65-250/30	30	40	-	58	33.5	6.7
MMD 65-250/37	37	55	-	71	41.0	6.5
MMD 80-160/10	10	13.6	-	22.5	13.0	6.3
MMD 80-160/12.5	12.5	17	-	27	15.6	6.4
MMD 80-160/15	15	20	-	32	18.5	7.8
MMD 80-200/15	15	20	-	32	18.5	7.8
MMD 80-200/18.5	18.5	25	-	38	21.9	6.8
MMD 80-200/22	22	30	-	44.5	35.7	6.8
MMD 80-200/30	30	40	-	58	33.5	6.7
MMD 80-200/37	37	55	-	71	41.0	6.5
MMD 80-250/37	37	55	-	71	41.0	6.5
MMD 100-200/22	22	30	-	44.5	35.7	6.8
MMD 100-200/30	30	40	-	58	33.5	6.7
MMD 100-200/37	37	55	-	71	41.0	6.5

I<sub>a</sub> = Locked rotor/Rotore bloccato  
I<sub>n</sub> = Full load/A pieno carico

## TECHNICAL DATA/DATI TECNICI

### 4 POLES/4 POLI

Type/Tipo	Power/Potenza Nominale		Full load current/Corrente a pieno carico			I <sub>a</sub> /I <sub>n</sub>
	[kW]	[HP]	230 V	400V	690 V	
MMD4 32-125/0.25 R	0,25	0.33	1.6	0.9	-	3.4
MMD4 32-125/0.25						
MMD4 32-160/0.37	0.37	0.55	2.3	1.3	-	4
MMD4 32-200/0.75	0.75	1	3.9	2.25	-	3.9
MMD4 32-200/0.92	0.92	1.25	4.7	2.7	-	5
MMD4 32-250/1.1	1.1	1.5	4.85	2.8	-	4.6
MMD4 32-250/1.5	1.5	2	6.6	3.8	-	4.8
MMD4 40-125/0.25	0.25	0.33	1.6	0.9	-	3.4
MMD4 40-125/0.37	0.37	0.55	2.3	1.3	-	4
MMD4 40-160/0.55	0.55	0.75	2.8	1.6	-	4.1
MMD4 40-200/1.1	1.1	1.5	4.85	2.8	-	4.6
MMD4 40-200/1.5	1.5	2	6.6	3.8	-	4.8
MMD4 40-250/1.5						
MMD4 40-250/2.2	2.2	3	10	5.8	-	4.8
MMD4 50-125/0.37	0.37	0.55	2.3	1.3	-	4
MMD4 50-125/0.55	0.55	0.75	2.8	1.6	-	1.1
MMD4 50-160/0.75	0.75	1	3.9	2.25	-	3.9
MMD4 50-160/0.92	0.92	1.25	4.7	2.7	-	5
MMD4 50-200/1.1	1.1	1.5	4.85	2.8	-	4.6
MMD4 50-200/1.5	1.5	2	6.6	3.8	-	4.8
MMD4 50-200/2.2	2.2	3	10	5.8	-	4.8
MMD4 50-250/3	3	4	13.5	7.8	-	5.4
MMD4 65-125/0.75	0.75	1	3.9	2.25	-	3.9
MMD4 65-160/1.1	1.1	1.5	4.85	2.8	-	4.6
MMD4 65-160/1.5	1.5	2	6.6	3.8	-	4.8
MMD4 65-200/2.2	2.2	3	10	5.8	-	4.8
MMD4 65-200/3.0	3	4	13.5	7.8	-	5.4
MMD4 65-250/4	4	5.5	16.1	9.3	-	6.6
MMD4 65-250/5.5	5.5	7.5	-	12	6.9	5.9

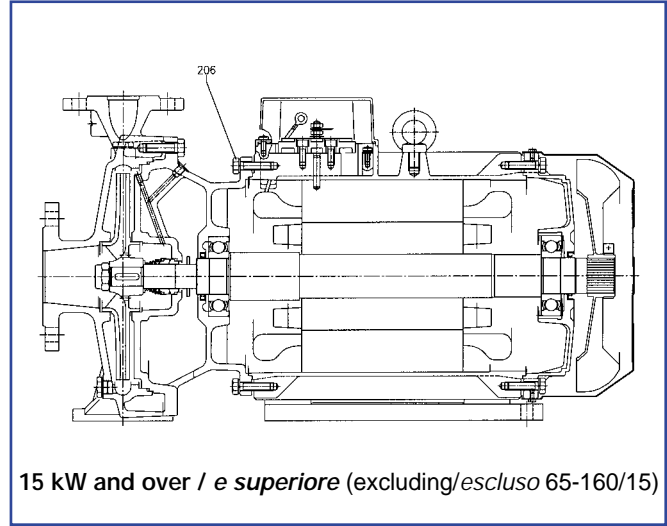
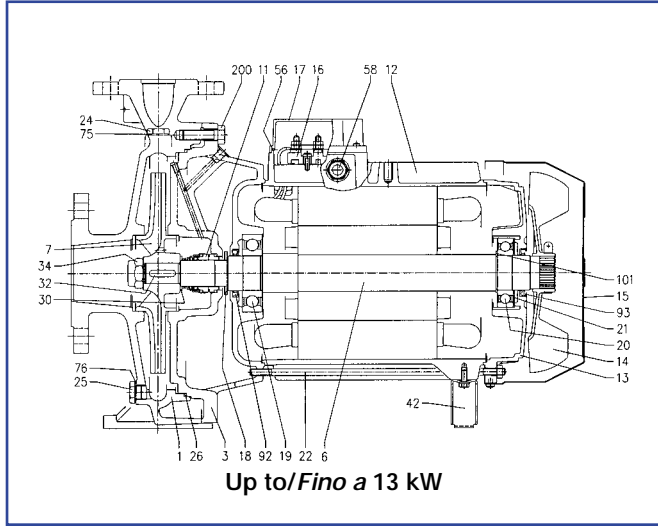
Type/Tipo	Power/Potenza Nominale		Full load current/Corrente a pieno carico			I <sub>a</sub> /I <sub>n</sub>
	[kW]	[HP]	230 V	400V	690 V	
MMD4 80-160/1.5	1.5	2	6.6	3.8	-	4.8
MMD4 80-160/2.2	2.2	3	10	5.8	-	4.8
MMD4 80-200/3	3	4	13.5	7.8	-	5.4
MMD4 80-250/4	4	5.5	16.1	9.3	-	6.6
MMD4 80-250/5.5	5.5	7.5	-	12	6.9	5.9
MMD4 80-250/7.5	7.5	10	-	15.6	9.0	6.8
MMD4 100-200/4	4	5.5	16.1	9.3	-	6.6
MMD4 100-200/5.5	5.5	7.5	-	12	6.9	5.9
MMD4 100-250/7.5	7.5	10	-	15.6	9.0	6.8
MMD4 100-250/9.2	9.2	12.5	-	19.7	11.4	7.4
MMD4 100-200/5.5	5.5	7.5	-	12	6.9	5.9
MMD4 125-200/7.5 R	7.5	10	-	15.6	9.0	6.8
MMD4 125-200/7.5						
MMD4 125-200/9.2	9.2	12.5	-	19.7	11.4	7.4
MMD4 125-250/11	11	15	-	25	14.4	7.3
MMD4 125-250/15	15	20	-	30.4	17.6	5.8
MMD4 150-200/7.5	7.5	10	-	15.6	9.0	6.8
MMD4 150-200/9.2	9.2	12.5	-	19.7	11.4	7.4
MMD4 150-200/11	11	15	-	25	14.4	7.3
MMD4 150-200/15	15	20	-	30.4	17.6	5.8
MMD4 150-200/18.5 R	18.5	25	-	37.1	21.4	6.2
MMD4 200-250/18.5						
MMD4 200-250/22 R	22	30	-	42.6	24.6	6.3
MMD4 200-250/22						

I<sub>a</sub> = Locked rotor/Rotore bloccato  
I<sub>n</sub> = Full load/A pieno carico



# SECTIONAL VIEW/VISTE IN SEZIONE

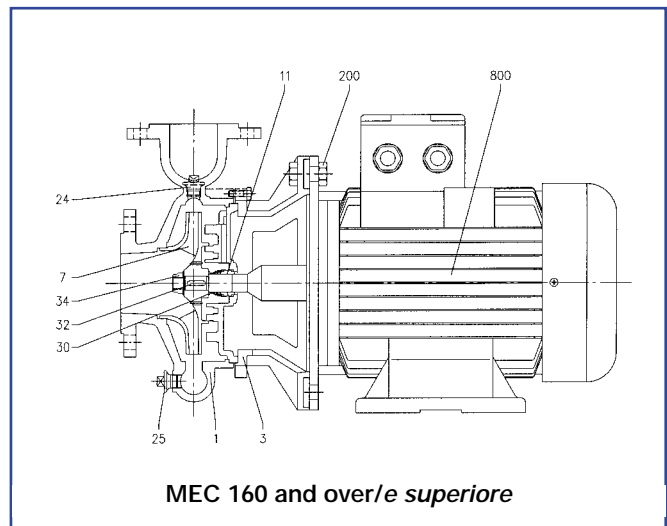
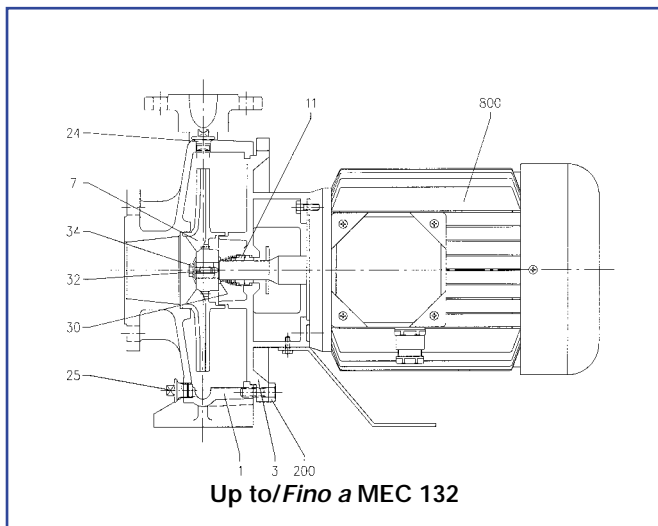
## MD



N°	DESCRIPTION/DESCRIZIONE	MATERIAL/MATERIALE
1	Casing/Corpo pompa	Cast Iron/Ghisa EN-GHJL-200-EN 1561
3	Motor bracket/Supporto motore	Cast Iron/Ghisa EN-GHJL-200-EN 1561
6	Shaft with rotor/Albero rotore	AISI 304 (...) (parte in contatto con il liquido)
7	Impeller/Girante	Cast Iron/Ghisa EN-GHJL-200-EN 1561 - Bronze /Bronzo
11	Mechanical seal/Tenuta meccanica	Carb/Ceram/NBR
12	Motor frame w/stator/Cassa motore	-
13	Motor cover/Coperchio motore	Aluminium/Alluminio
14	Fan/Ventola	Polypropilene
15	Fan cover/Copriventola	Fe P04 Zincato
16	Terminal/Morsettiera	-
17	Terminal box cover/Scatola coprimorsettiera	Plastic/Plastica / Aluminium/Alluminio
18	Splash ring/Rondella paraspruzzi	NBR
19	Bearing/Cuscinetto lato pompa	-
20	Bearing/Cuscinetto lato ventola	-
21	Adjusting ring/Anello compensatore	Stainless steel/Acciaio C70
22	Tie rod/Tirante Screw/Vite	Fe 42 Galvanized steel/Acciaio zincato ISO 898/1

N°	DESCRIPTION/DESCRIZIONE	MATERIAL/MATERIALE
24	Priming plug/Tappo di carico	Bronze/Bronzo
25	Drain Plug/Tappo di scarico	Bronze/Bronzo
26	"O" ring/Anello OR	NBR
30	Spacer/Distanziale	AISI 304
32	Key/Linguetta	AISI 304
34	Impeller nut/Dado girante	AISI 304
42	Foot/Piedino	Fe P04
56	Box gasket/Guarnizioni per base	NBR
58	Faesting nut/Ghiera fissaggio	-
75	Washer/Rondella	Aluminium/Alluminio
76	Washer/Rondella	Aluminium/Alluminio
92	Lip seal/Anello tenuta	-
93	Lip seal/Anello tenuta	-
101	Anello seeger	Carbon Steel/Acciaio al carbonio TC 80
200	Screw/Vite	Galvanized Steel/Acciaio zincato ISO 898/1
206	Screw/Vite	Galvanized Steel/Acciaio zincato ISO 898/1

## MMD/MMD4



N°	DESCRIPTION/DESCRIZIONE	MATERIAL/MATERIALE
1	Casing/Corpo pompa	Cast Iron/Ghisa
3	Motor bracket/Supporto motore	Cast Iron/Ghisa
7	Impeller/Girante	Cast Iron/Ghisa
11	Mechanical seal/Tenuta meccanica	Carb/Ceram/NBR
24	Priming plug/Tappo di carico	Stainless steel/Acciaio inox
25	Drin Plug/Tappo di scarico	Stainless steel/Acciaio inox

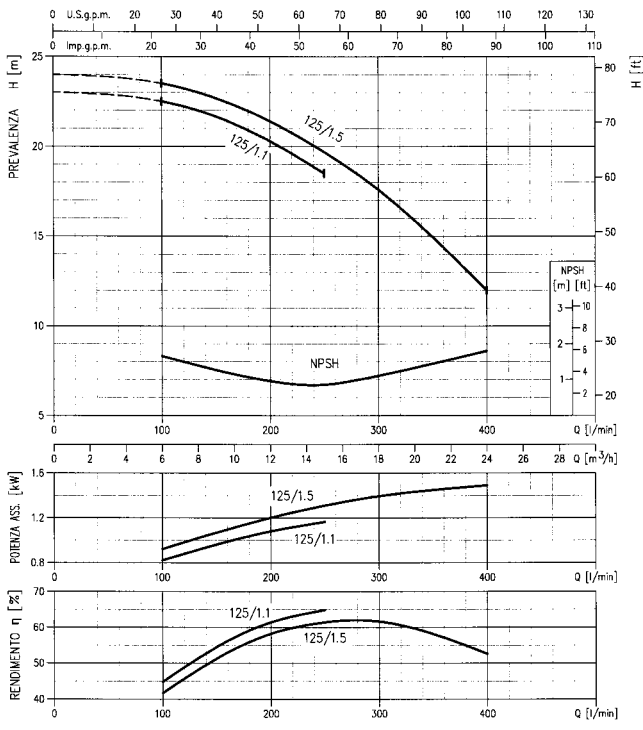
N°	DESCRIPTION/DESCRIZIONE	MATERIAL/MATERIALE
30	Spacer/Distanziale tenuta mecc.	Stainless steel/Acciaio inox
32	Key/Linguetta	Stainless steel/Acciaio inox
34	Impeller nut/Dado girante	Stainless steel/Acciaio inox
200	Screw/Vite	Stainless steel/Acciaio inox
800	Motor/Motore	-

# PERFORMANCE CURVES/CURVE DI PRESTAZIONE

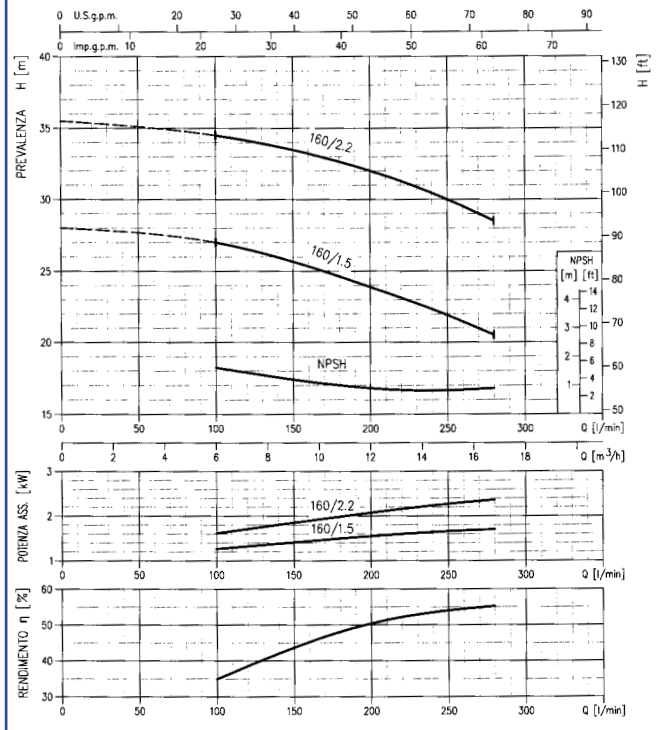
MD

2 POLES/2 POLI

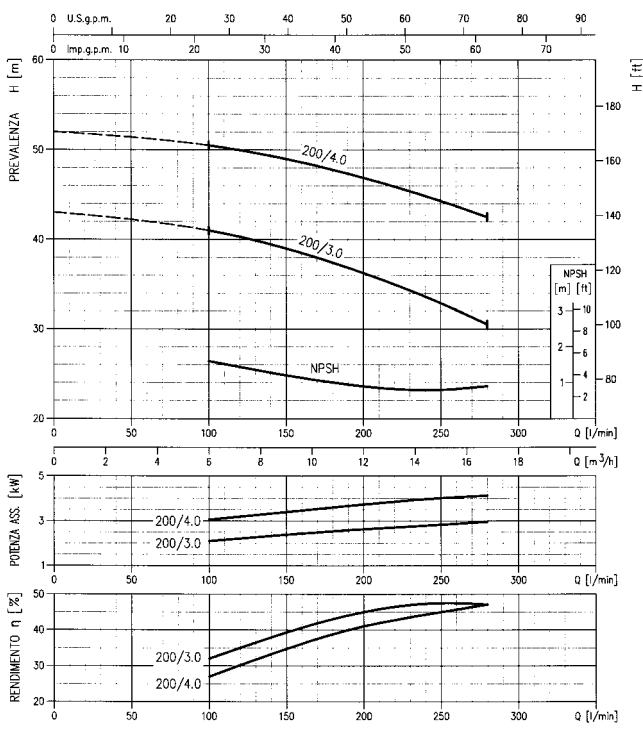
MD 32-125



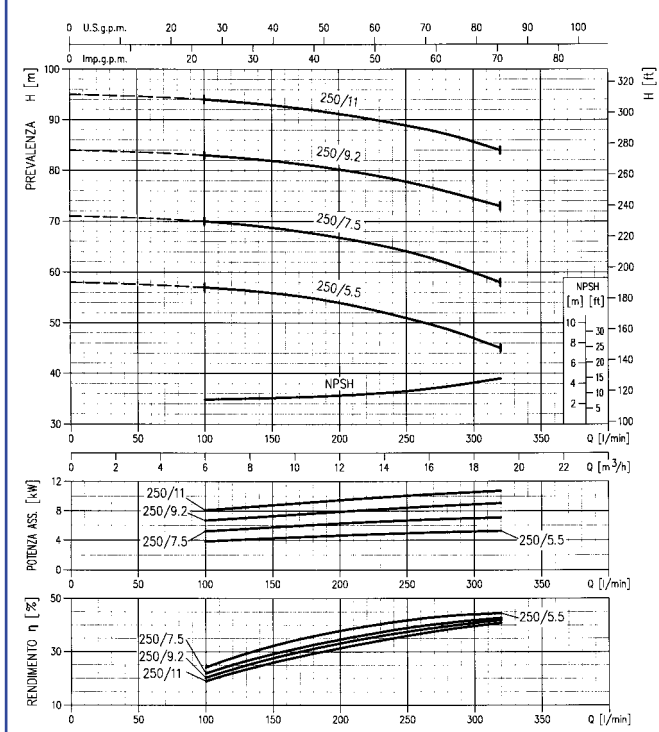
MD 32-160



MD 32-200



MD 32-250



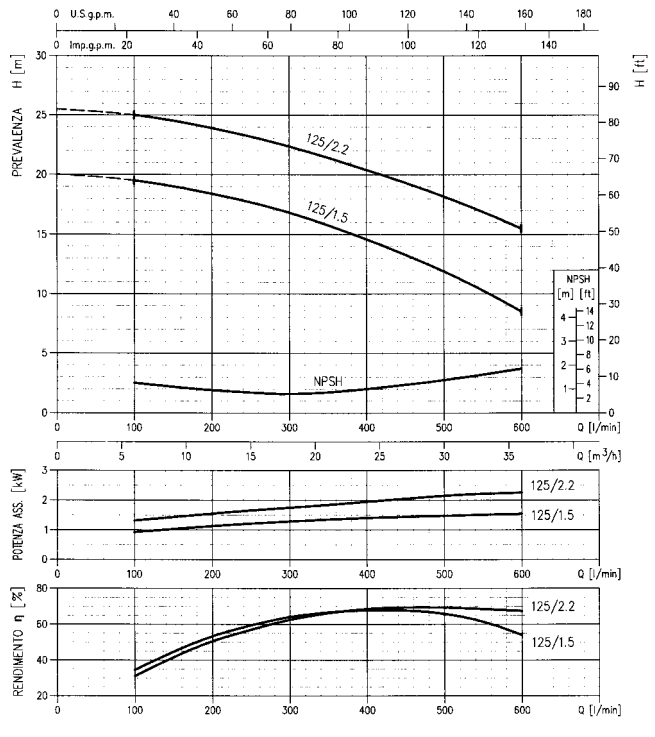
R.P.M./Velocità di rotazione 2900 min<sup>-1</sup>  
 Test fluid/Fluido di prova: Clean water/Acqua pulita a 20°C  
 Applicable standard/Tolleranza secondo: UNI EN ISO 9906 Appendice A

# PERFORMANCE CURVES/CURVE DI PRESTAZIONE

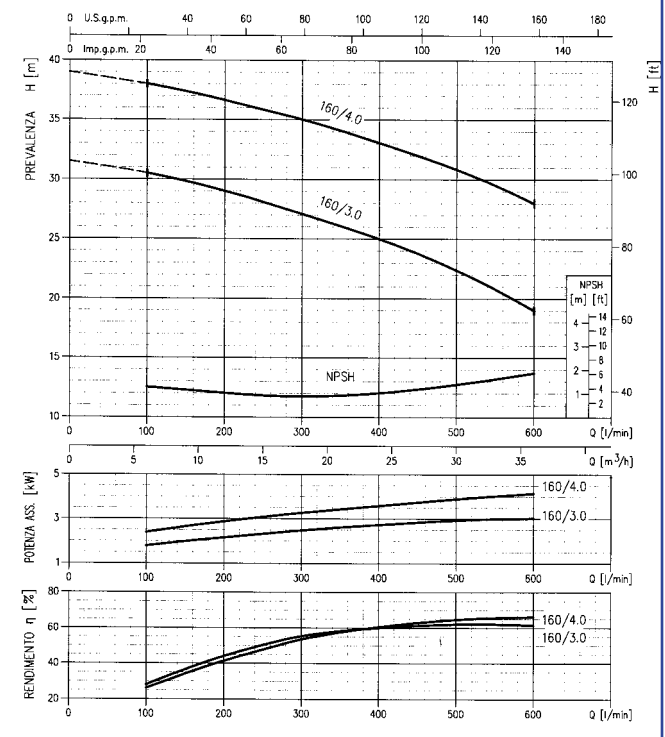
MD

2 POLES/2 POLI

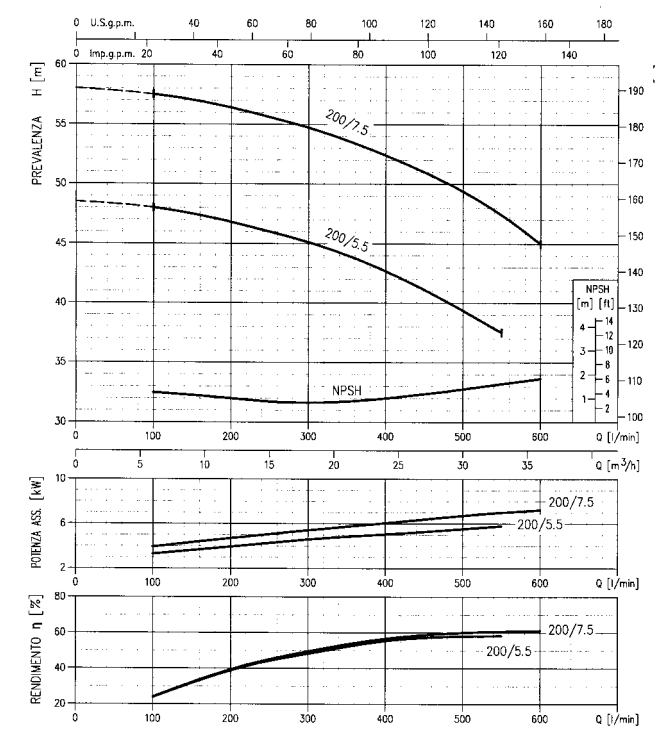
MD 40-125



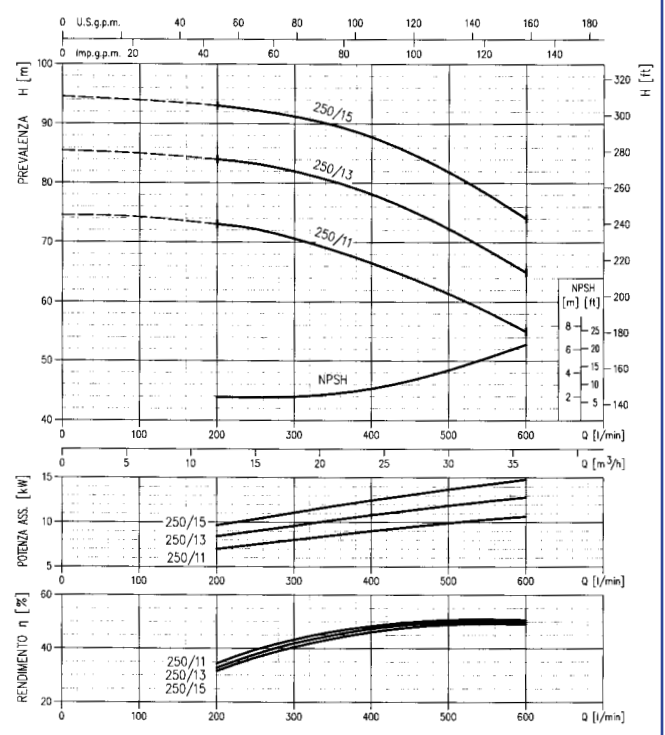
MD 40-160



MD 40-200



MD 40-250



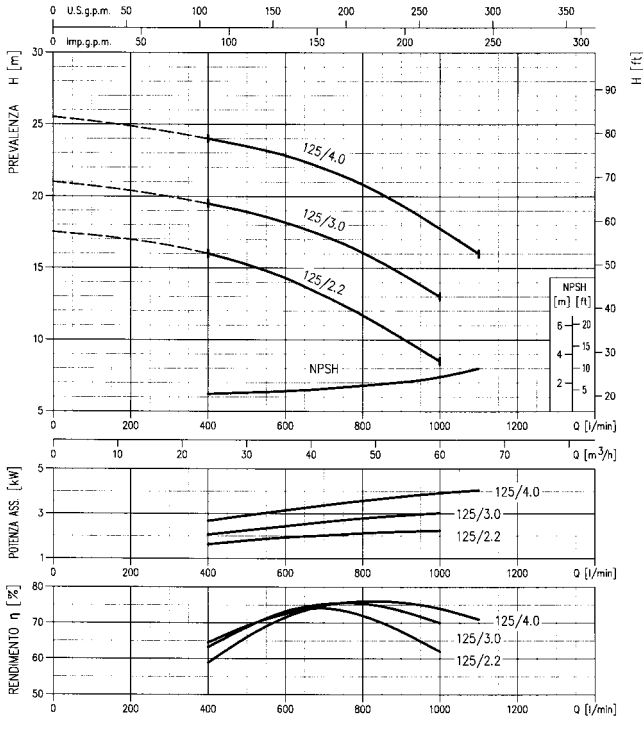
R.P.M./Velocità di rotazione 2900 min<sup>-1</sup>  
 Test fluid/Fluido di prova: Clean water/Acqua pulita a 20°C  
 Applicable standard/Tolleranza secondo: UNI EN ISO 9906 Appendice A

# PERFORMANCE CURVES/CURVE DI PRESTAZIONE

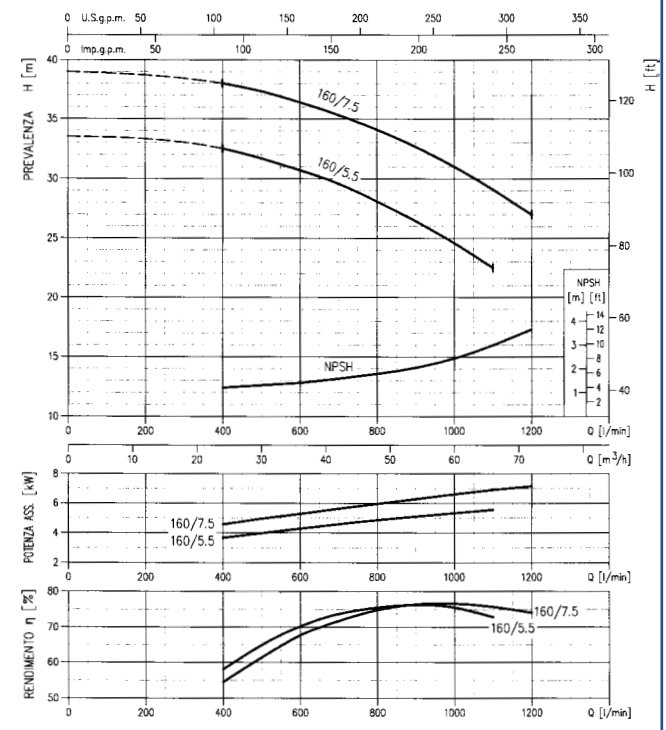
MD

2 POLES/2 POLI

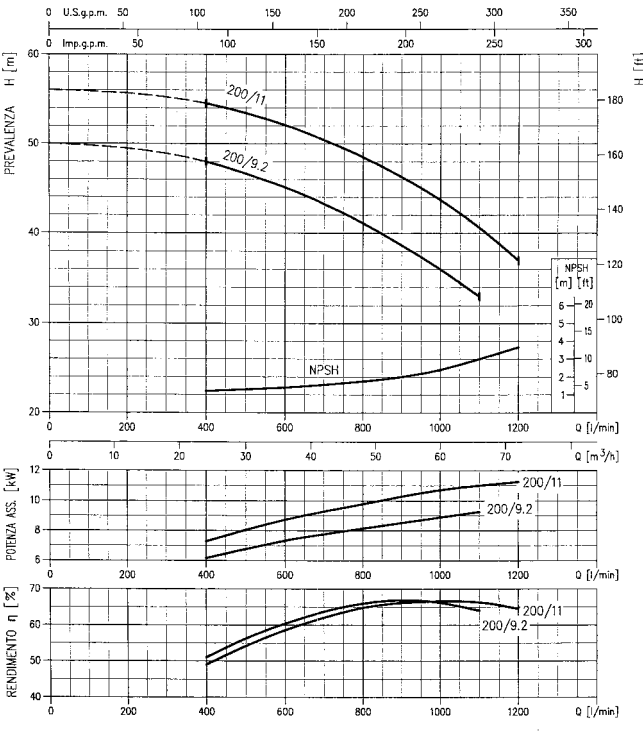
MD 50-125



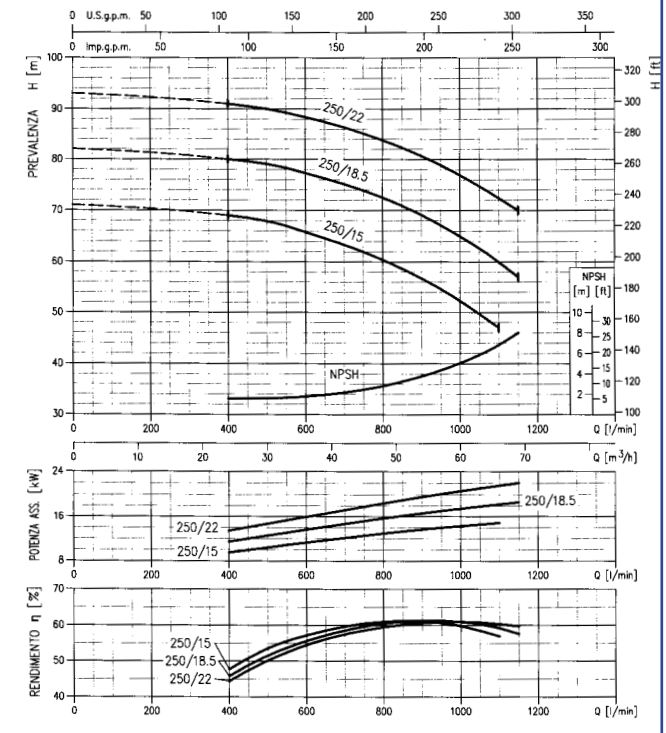
MD 50-160



MD 50-200



MD 50-250



R.P.M./Velocità di rotazione 2900 min<sup>-1</sup>  
 Test fluid/Fluido di prova: Clean water/Acqua pulita a 20°C  
 Applicable standard/Tolleranza secondo: UNI EN ISO 9906 Appendice A

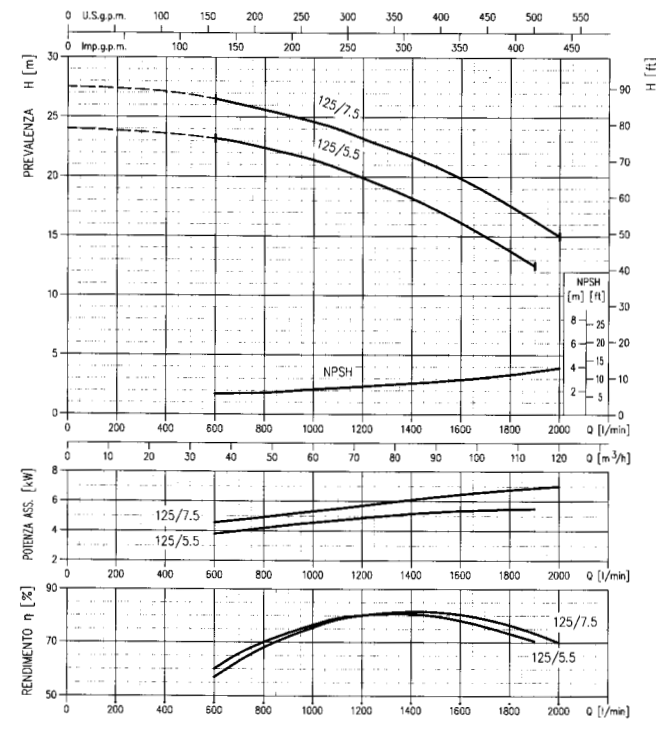


# PERFORMANCE CURVES/CURVE DI PRESTAZIONE

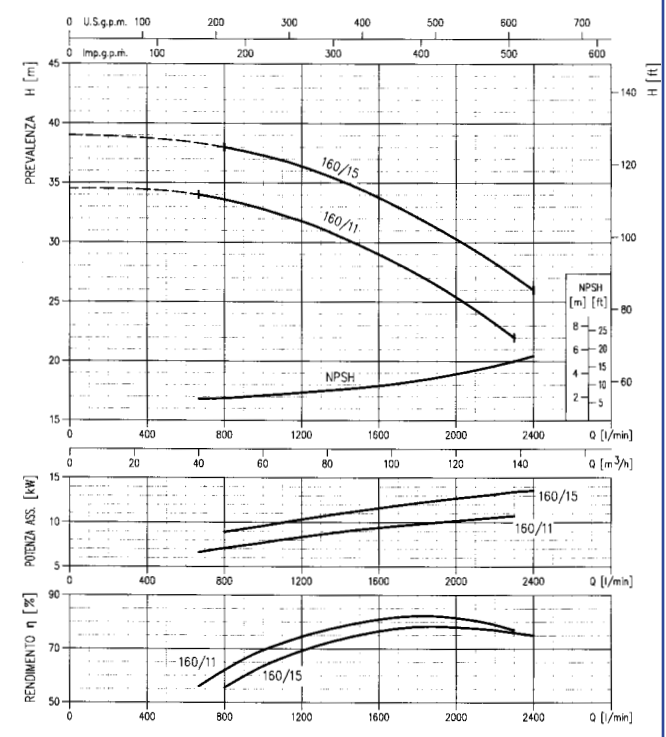
## MD/MMD

## 2 POLES/2 POLI

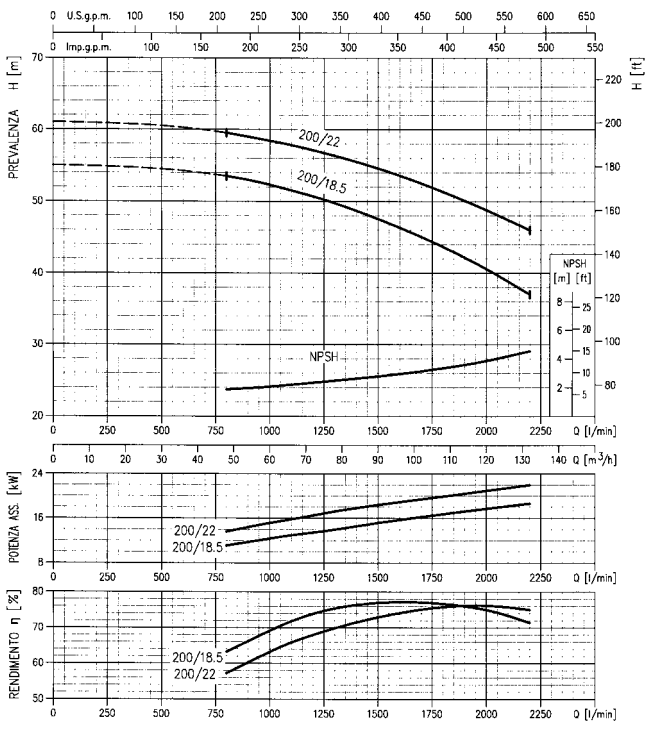
### MD 65-125



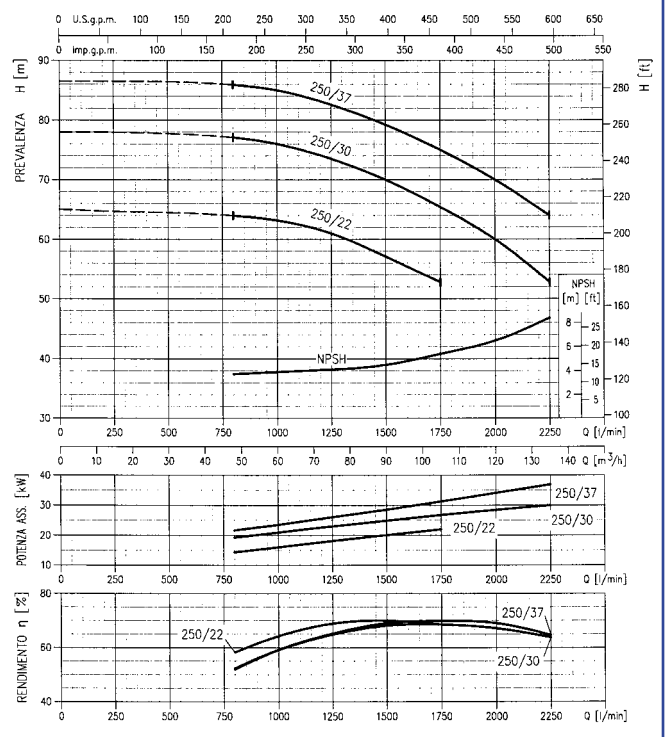
### MD 65-160



### MD 65-200



### MMD 65-250



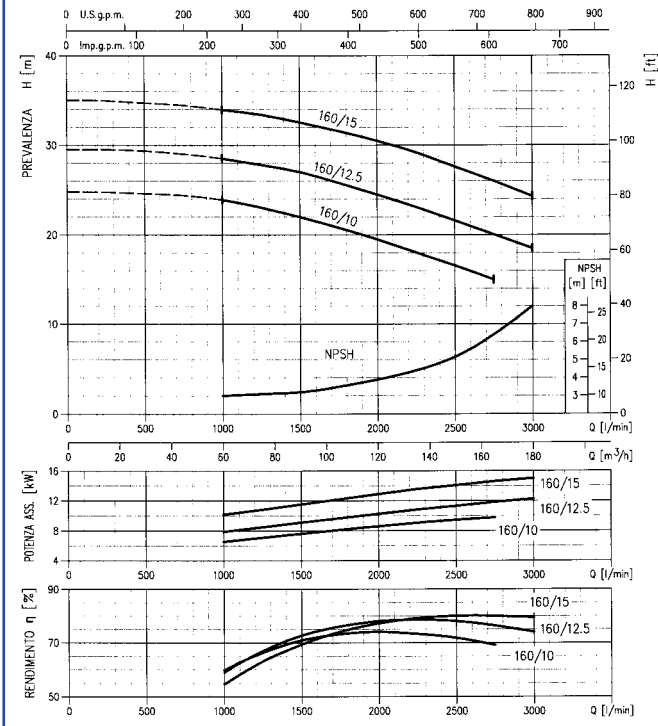
R.P.M./Velocità di rotazione 2900 min<sup>-1</sup>  
 Test fluid/Fluido di prova: Clean water/Acqua pulita a 20°C  
 Applicable standard/Tolleranza secondo: UNI EN ISO 9906 Appendice A

# PERFORMANCE CURVES/CURVE DI PRESTAZIONE

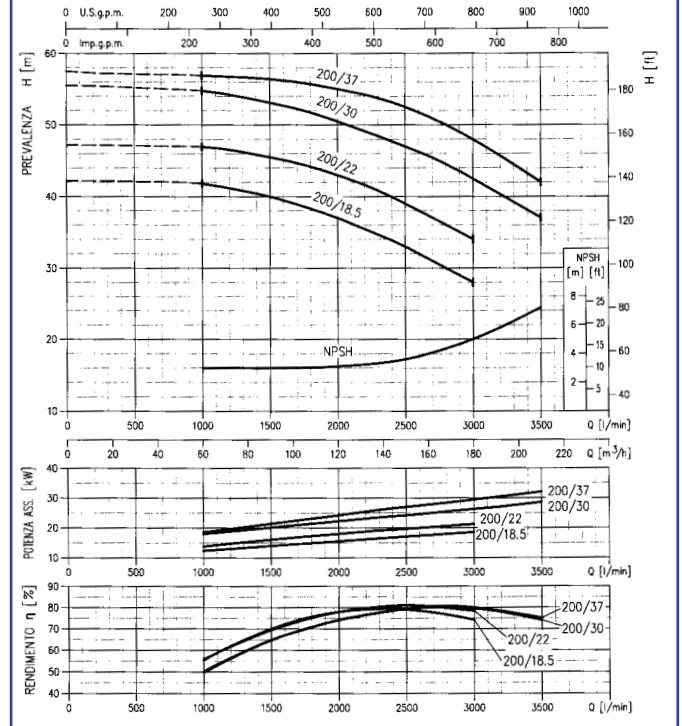
MMD

2 POLES/2 POLI

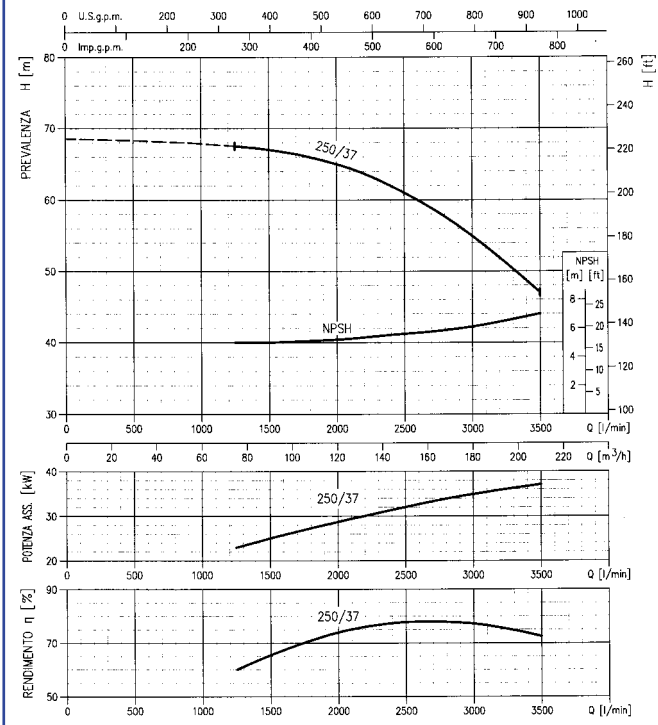
MMD 80-160



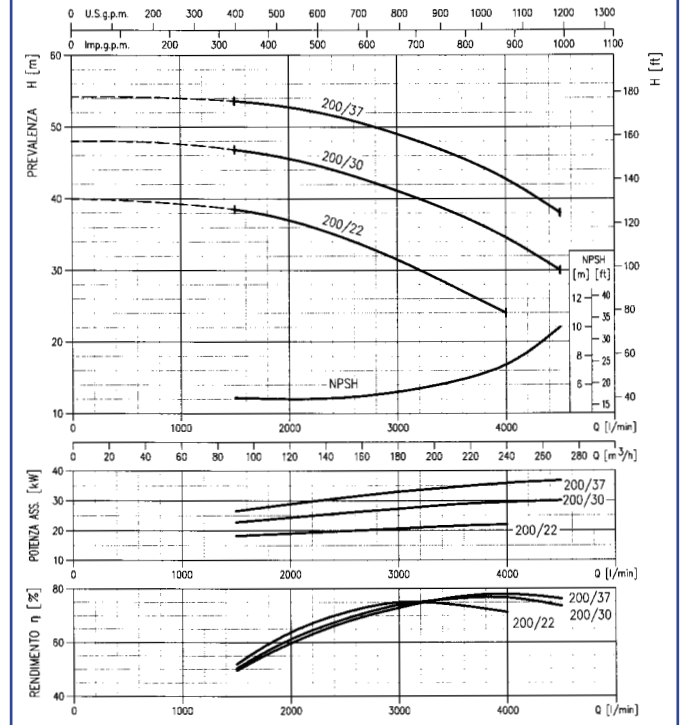
MMD 80-200



MMD 80-250



MMD 100-200



R.P.M./Velocità di rotazione 2900 min<sup>-1</sup>  
 Test fluid/Fluido di prova: Clean water/Acqua pulita a 20°C  
 Applicable standard/Tolleranza secondo: UNI EN ISO 9906 Appendice A

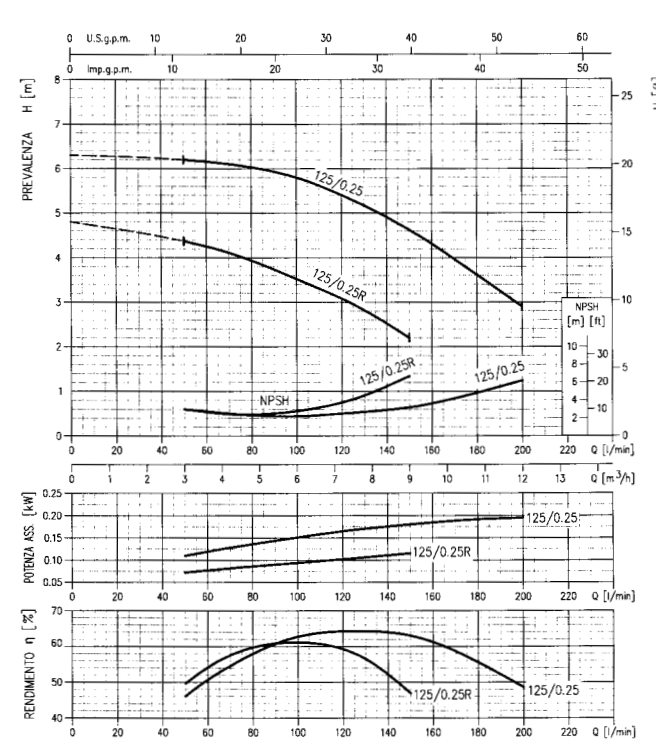


# PERFORMANCE CURVES/CURVE DI PRESTAZIONE

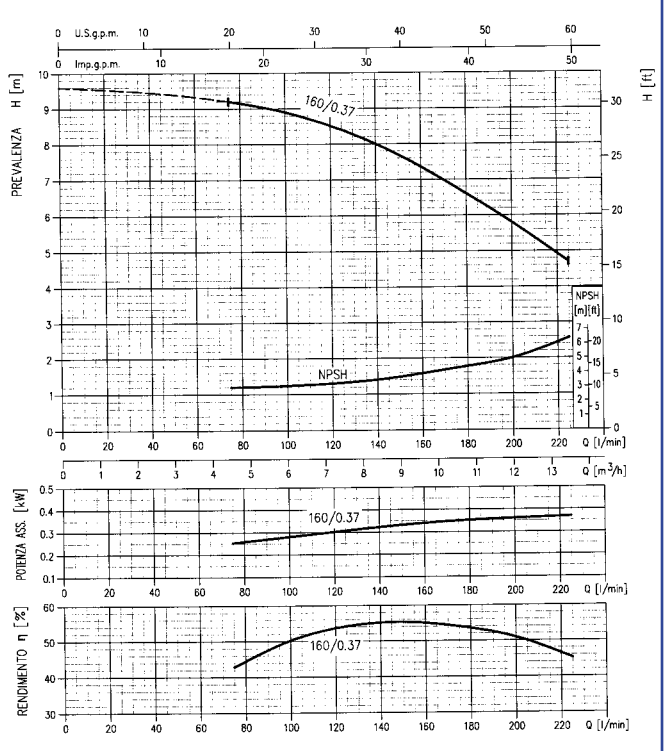
## MMD4

## 4 POLES/4 POLI

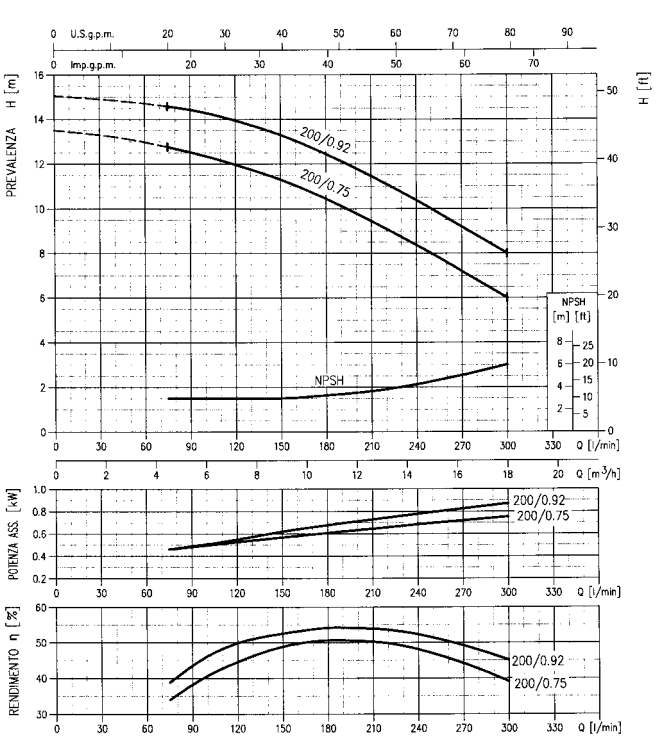
### MMD4 32-125



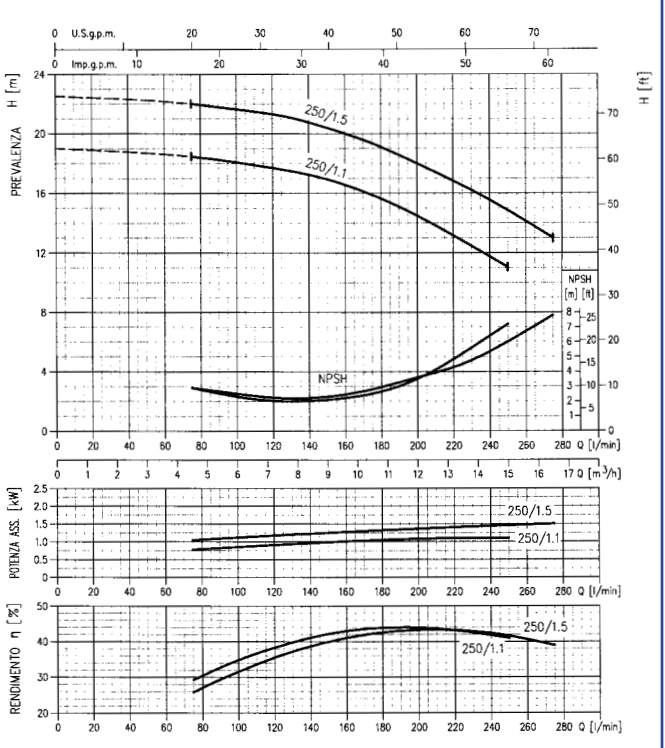
### MMD4 32-160



### MMD4 32-200



### MMD4 32-250



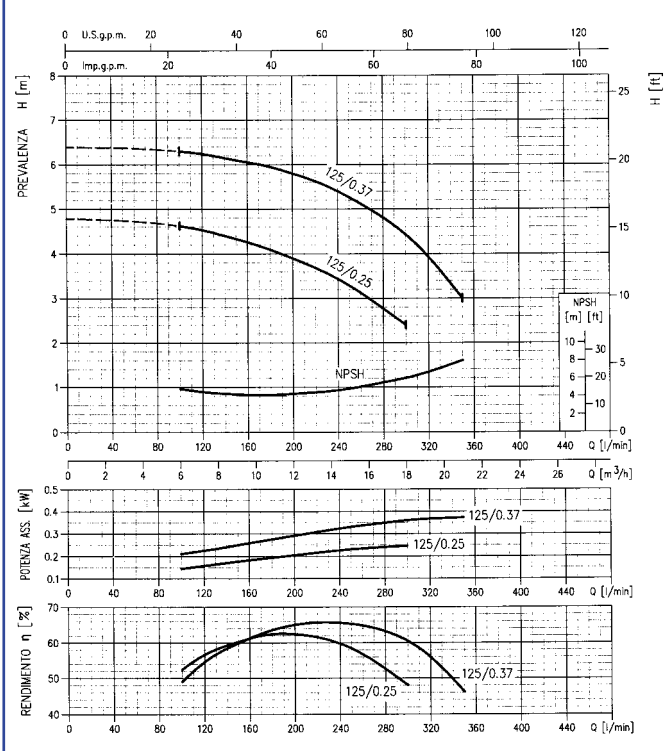
R.P.M./Velocità di rotazione 1400 min<sup>-1</sup>  
 Test fluid/Fluido di prova: Clean water/Acqua pulita a 20°C  
 Applicable standard/Tolleranza secondo: UNI EN ISO 9906 Appendice A

# PERFORMANCE CURVES/CURVE DI PRESTAZIONE

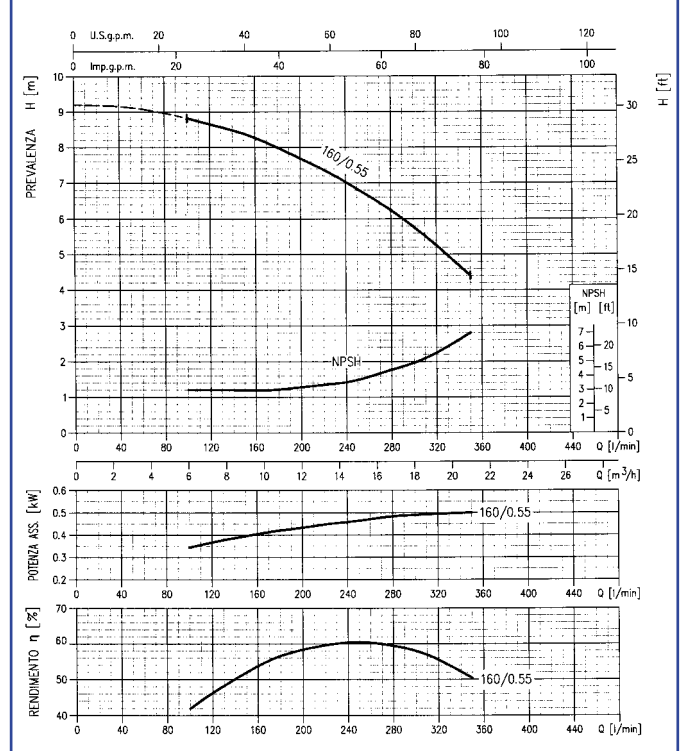
MMD4

4 POLES/4 POLI

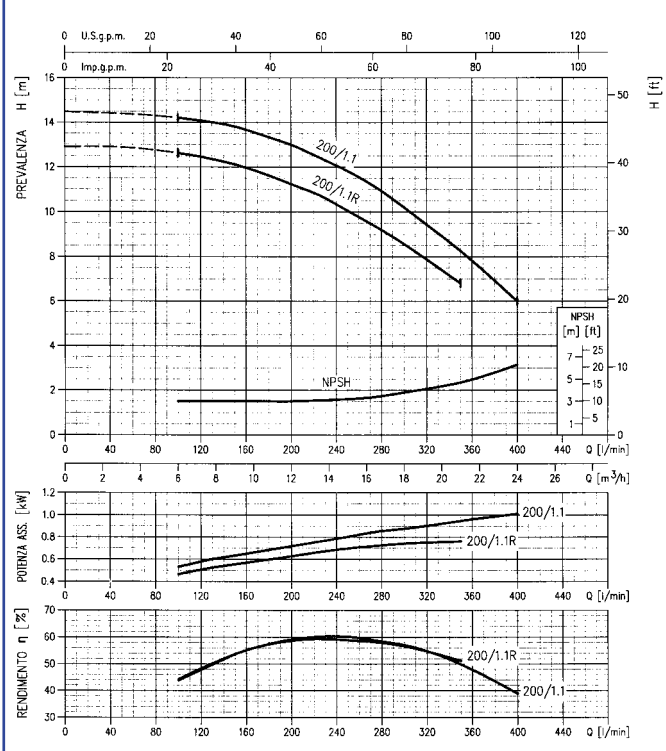
MMD4 40-125



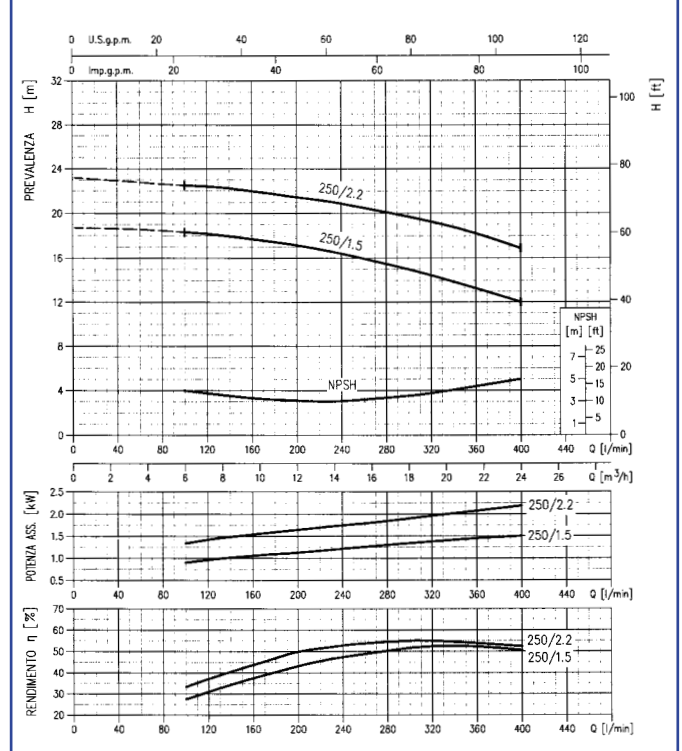
MMD4 40-160



MMD4 40-200



MMD4 40-250



R.P.M./Velocità di rotazione 1400 min<sup>-1</sup>  
 Test fluid/Fluido di prova: Clean water/Acqua pulita a 20°C  
 Applicable standard/Tolleranza secondo: UNI EN ISO 9906 Appendice A

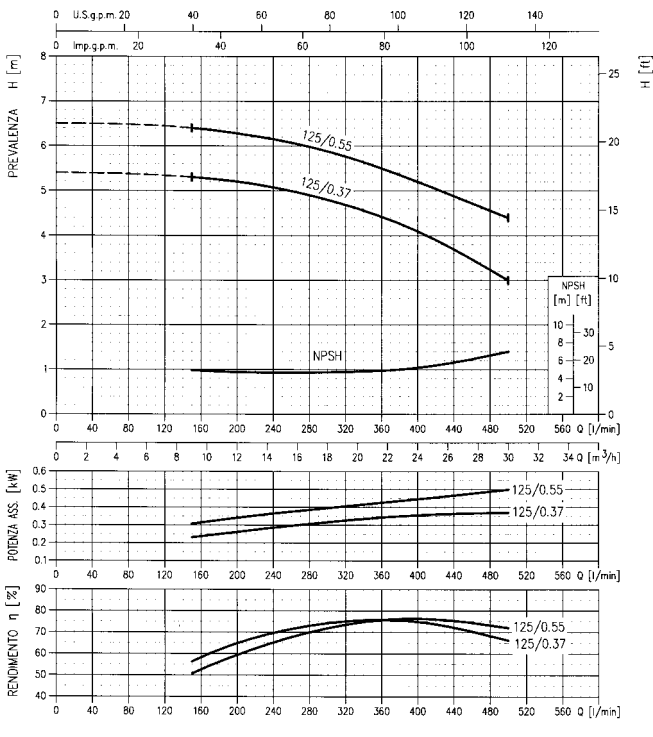


# PERFORMANCE CURVES/CURVE DI PRESTAZIONE

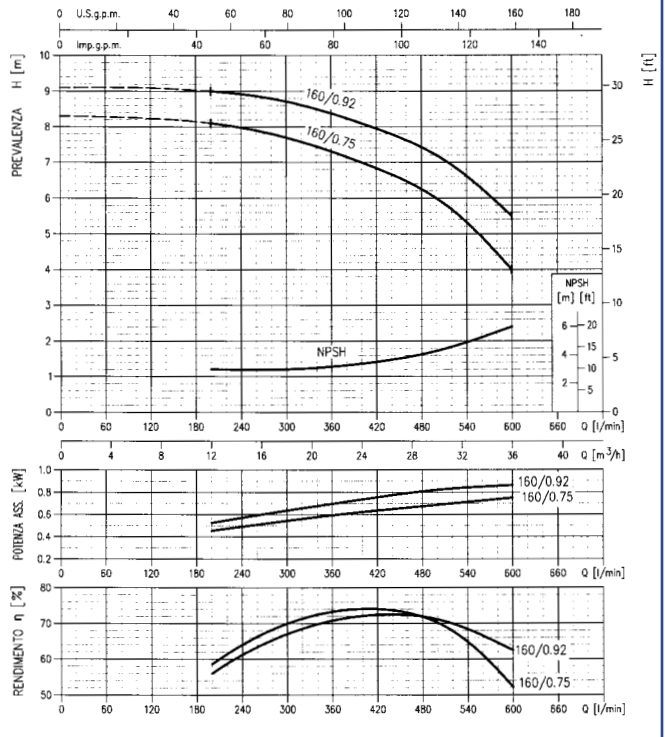
## MMD4

## 4 POLES/4 POLI

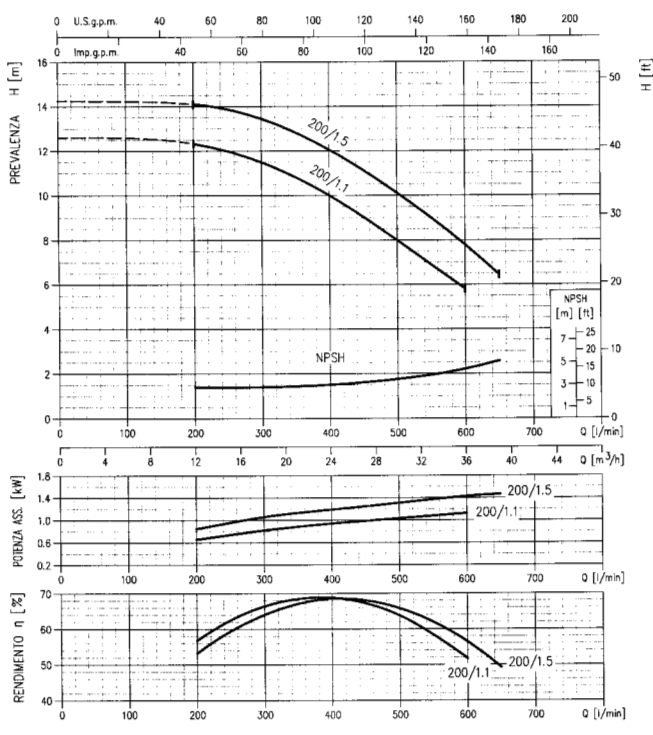
### MMD4 50-125



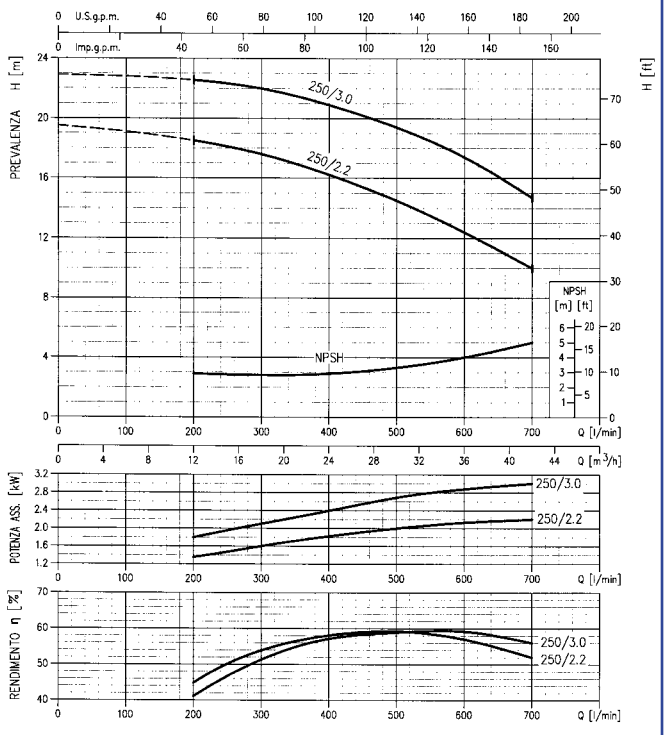
### MMD4 50-160



### MMD4 50-200



### MMD4 50-250



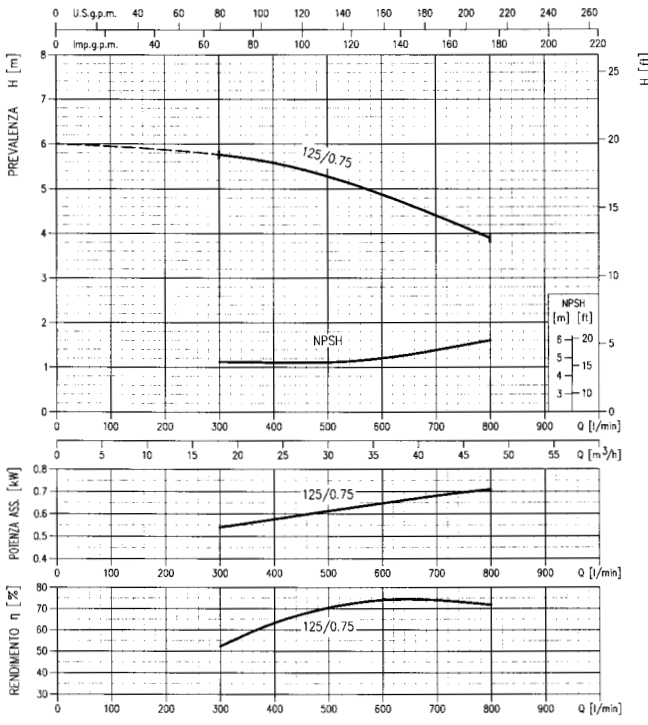
R.P.M./Velocità di rotazione 1400 min<sup>-1</sup>  
 Test fluid/Fluido di prova: Clean water/Acqua pulita a 20°C  
 Applicable standard/Tolleranza secondo: UNI EN ISO 9906 Appendice A

# PERFORMANCE CURVES/CURVE DI PRESTAZIONE

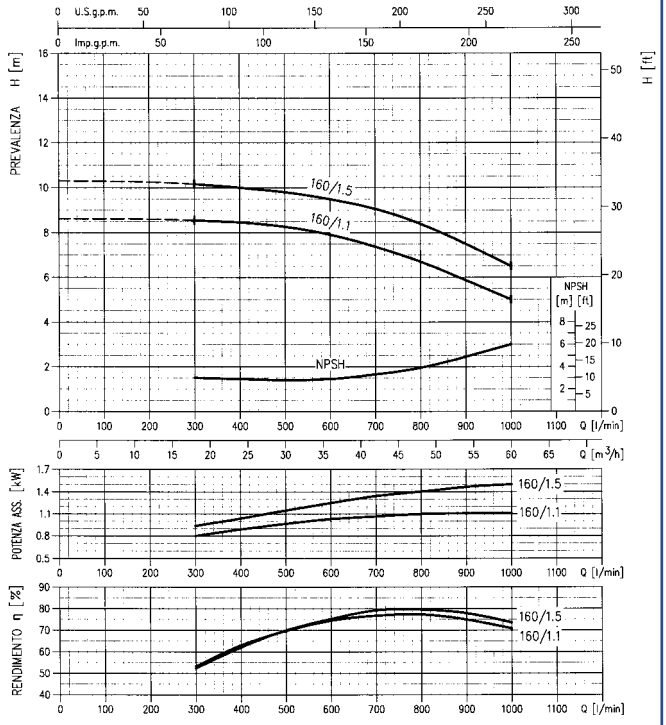
MMD4

4 POLES/4 POLI

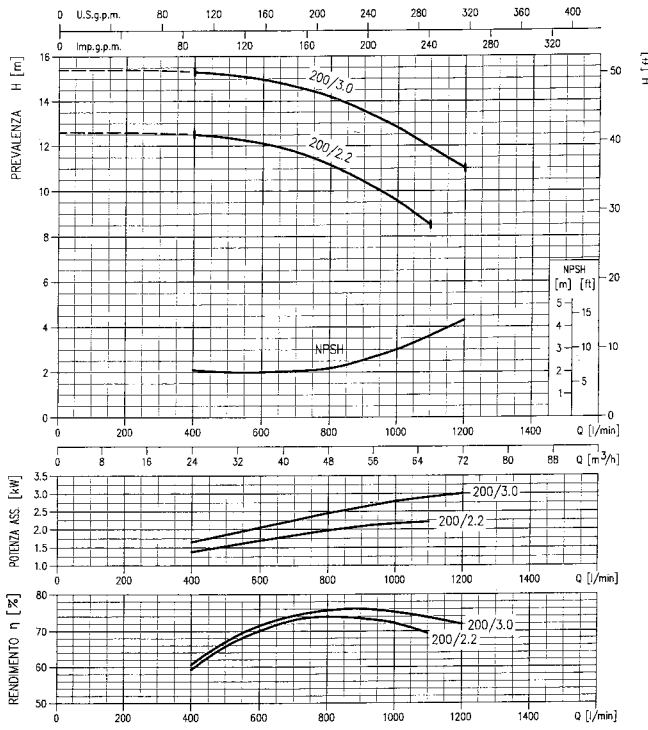
MMD4 65-125



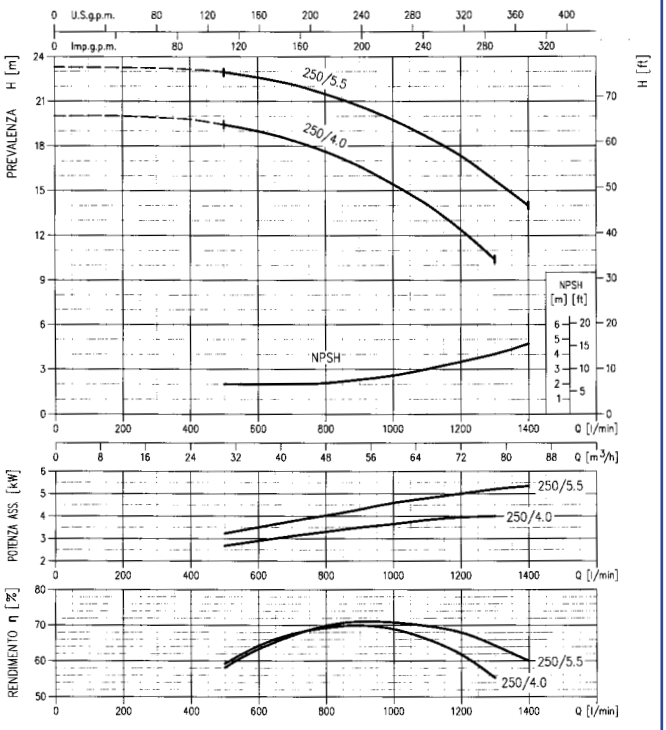
MMD4 65-160



MMD4 65-200



MMD4 65-250



R.P.M./Velocità di rotazione 1400 min<sup>-1</sup>  
 Test fluid/Fluido di prova: Clean water/Acqua pulita a 20°C  
 Applicable standard/Tolleranza secondo: UNI EN ISO 9906 Appendice A

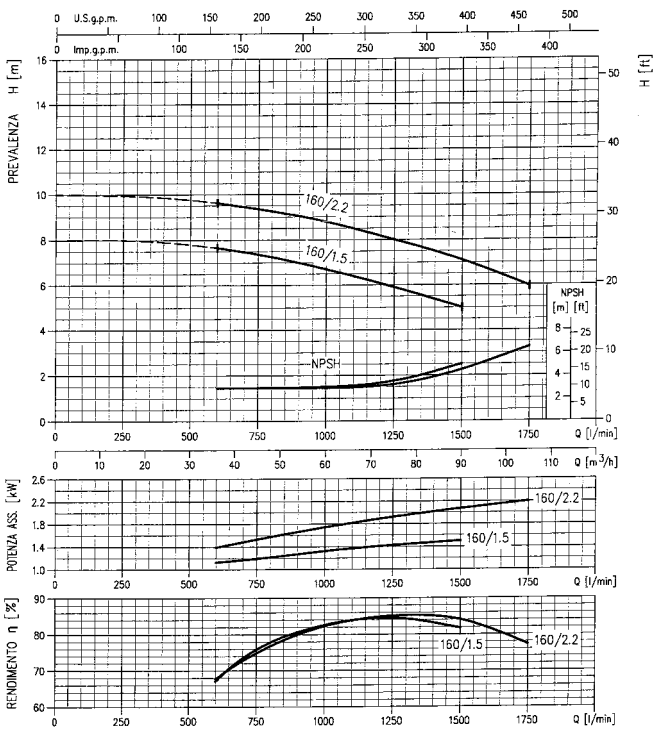


# PERFORMANCE CURVES/CURVE DI PRESTAZIONE

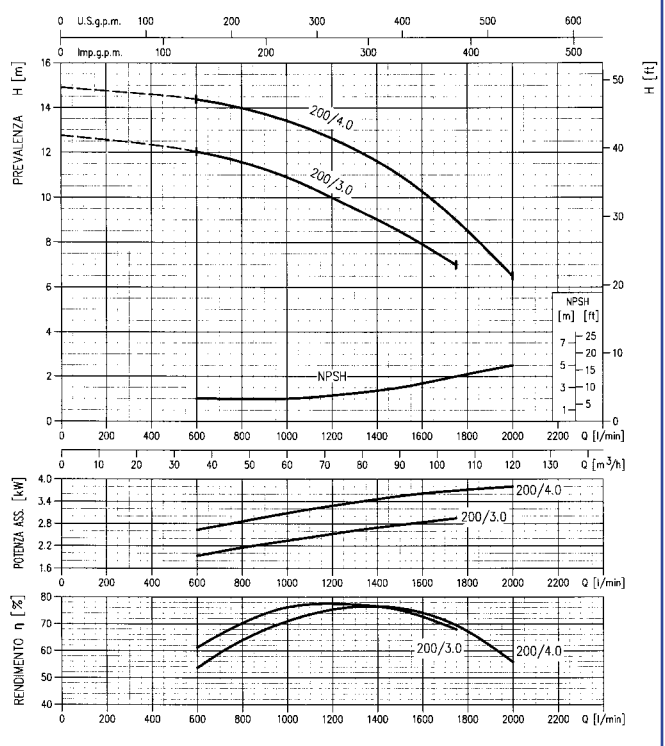
## MMD4

## 4 POLES/4 POLI

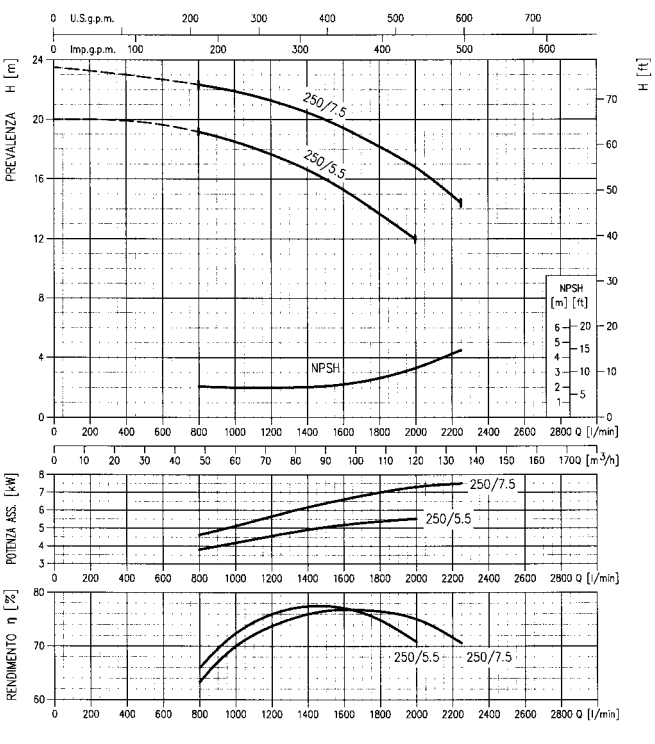
### MMD4 80-160



### MMD4 80-200



### MMD4 80-250

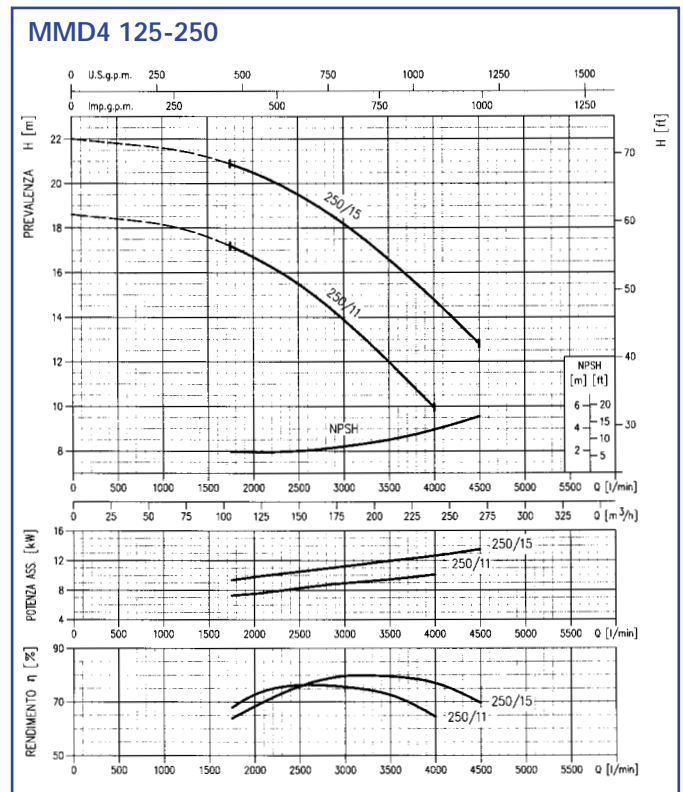
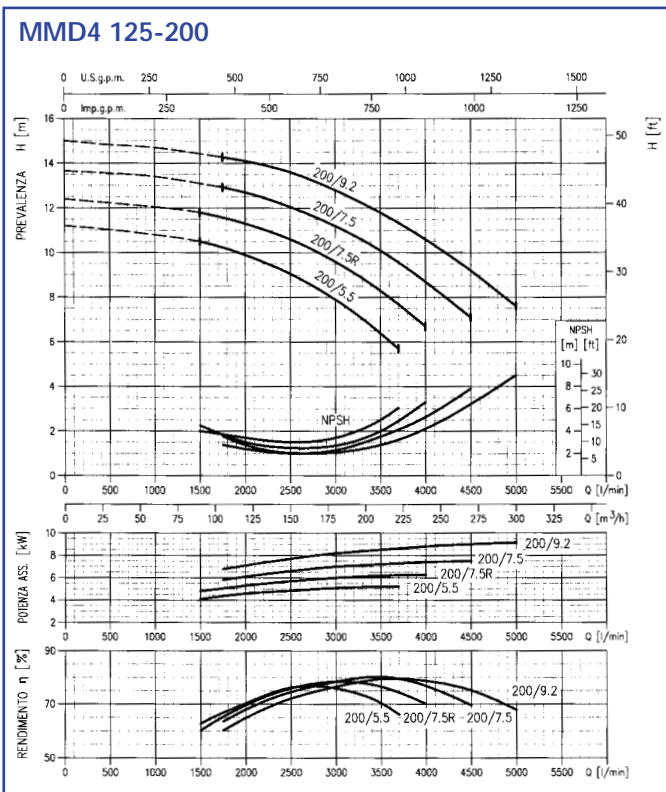
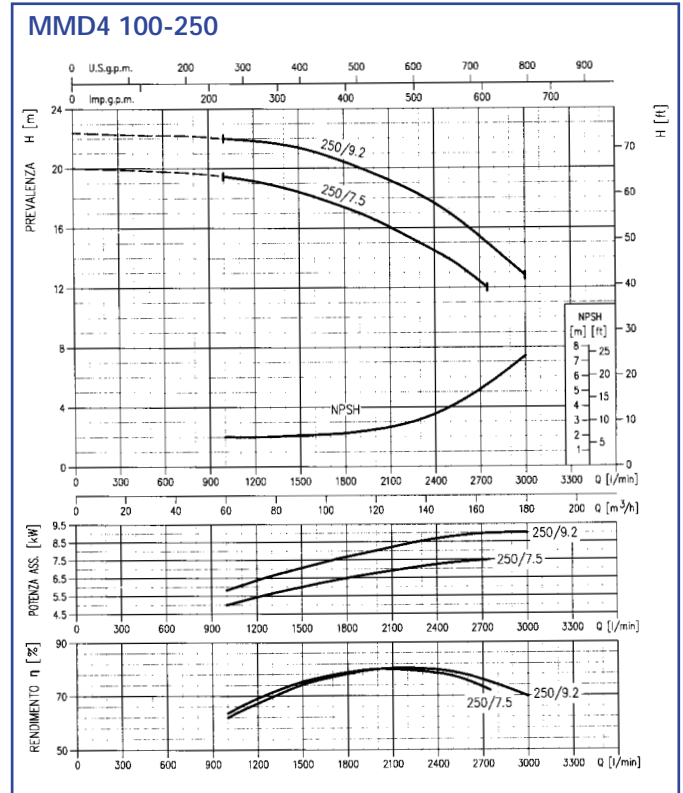
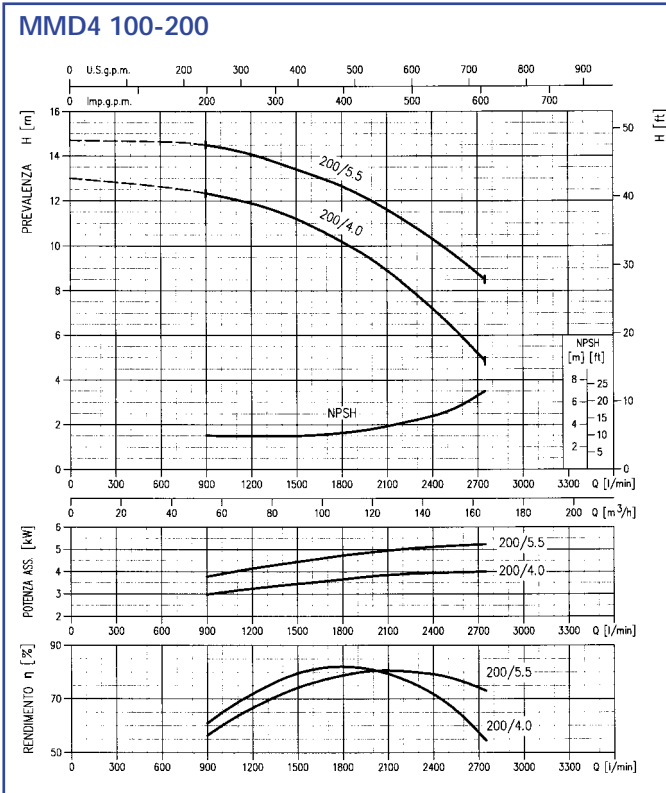


R.P.M./Velocità di rotazione 1450 min<sup>-1</sup>  
 Test fluid/Fluido di prova: Clean water/Acqua pulita a 20°C  
 Applicable standard/Tolleranza secondo: UNI EN ISO 9906 Appendice A

# PERFORMANCE CURVES/CURVE DI PRESTAZIONE

MMD4

4 POLES/4 POLI



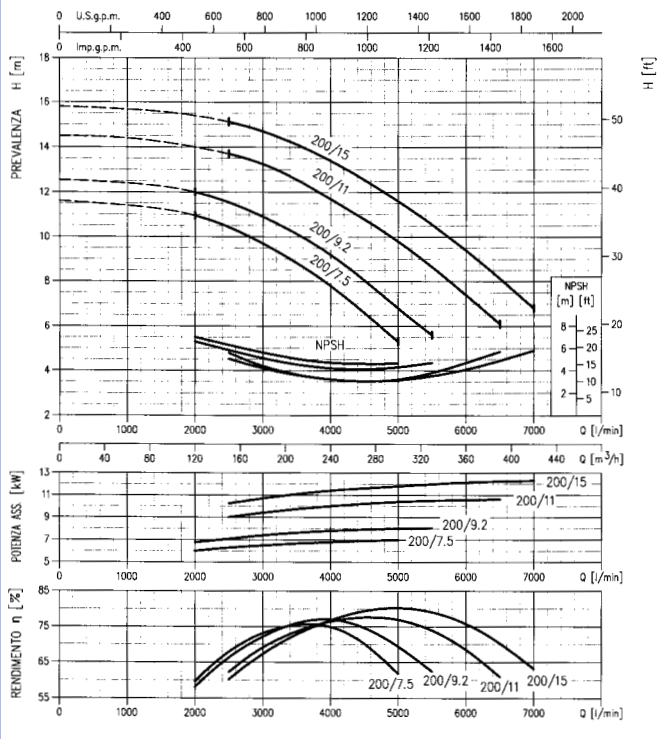
R.P.M./Velocità di rotazione 1450 min<sup>-1</sup>  
 Test fluid/Fluido di prova: Clean water/Acqua pulita a 20°C  
 Applicable standard/Tolleranza secondo: UNI EN ISO 9906 Appendice A

# PERFORMANCE CURVES/CURVE DI PRESTAZIONE

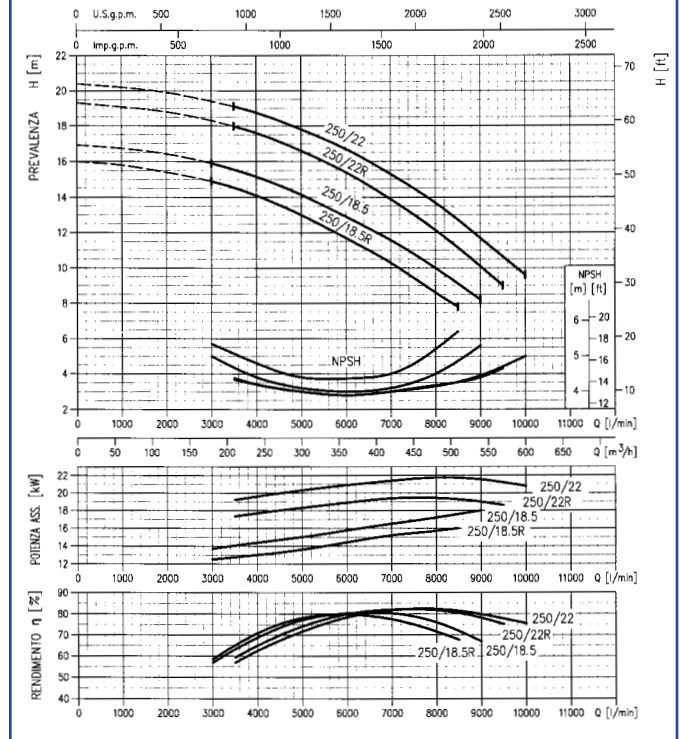
## MMD4

## 4 POLES/4 POLI

### MMD4 150-200



### MMD4 200-250

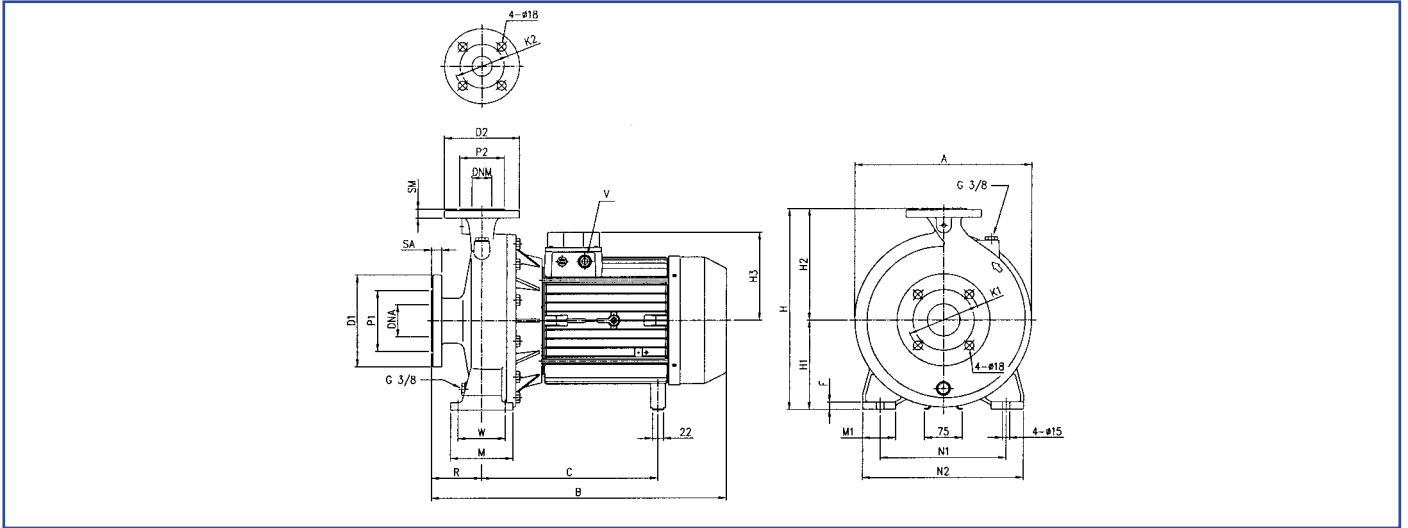


R.P.M./Velocità di rotazione 1450 min<sup>-1</sup>  
 Test fluid/Fluido di prova: Clean water/Acqua pulita a 20°C  
 Applicable standard/Tolleranza secondo: UNI EN ISO 9906 Appendice A

# DIMENSIONS/DIMENSIONI

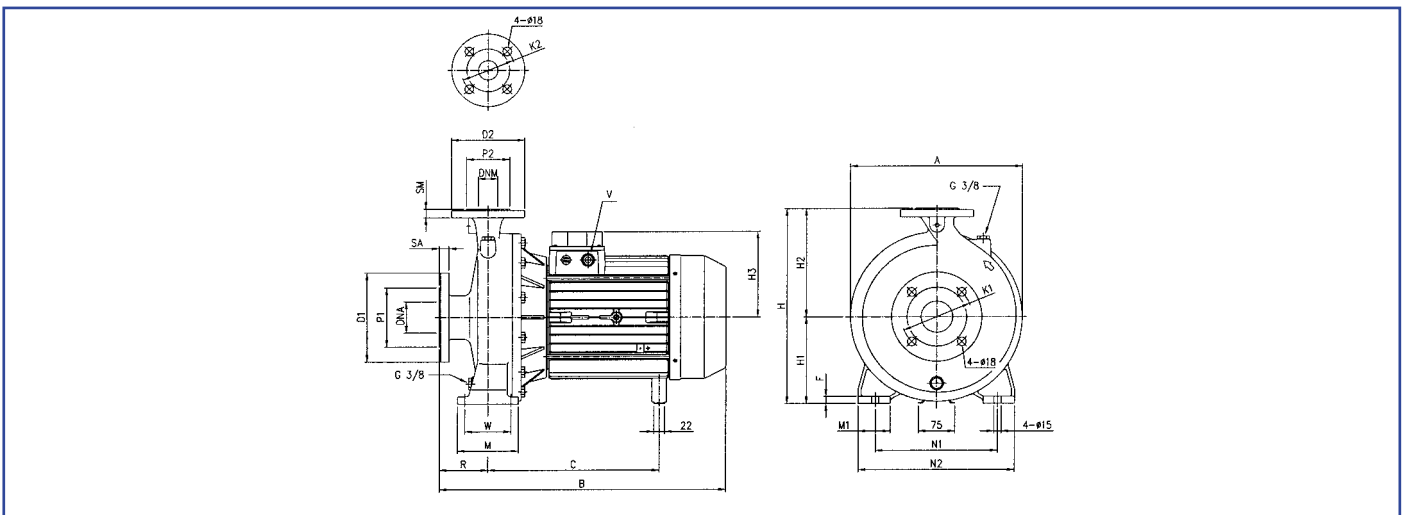
MD

2 POLES/2 POLI



Model/Modello	Dimensions/Dimensioni [mm]																										
	DNA	P1	K1	D1	SA	DNM	P2	K2	D2	SM	H	H1	H2	H3		R	W	N1	M	N2	M1	F	A	B	C	V [1]	
MD 32-125/1.1											252	112	140					140		190			205				
MD 32-125/1.5											292	132	160	122	139		80	70	100		50	13	245	431	230	PG 13.5	
MD 32-160/1.5											340	160	180	134				190		240			290	459	252		
MD 32-160/2.2																							496	254			
MD 32-200/3	50	102	125	165		32	78	100	140														496	275		PG 16	
MD 32-200/4											405	180	225	153	-	100	95	250	125	320	65	15	352	588	351	PG 21	
MD 32-250/5.5																							540				
MD 32-250/7.5																											
MD 32-250/9.2										18																	
MD 32-250/11																											
MD 40-125/1.5											252	112	140	122	139			160		210			235	431	230	PG 13.5	
MD 40-125/2.2											292	132	160	134		80	70	190	100	240	50	13	245	459	232		
MD 40-160/3					20						340	160	180	153	-			212		265			290	495	278	PG 16	
MD 40-160/4						40	88	110	150																		
MD 40-200/5.5											405	180	225	181			95	250	125	320	65	15	352	588	351	PG 21	
MD 40-200/7.5																											
MD 40-250/11																											
MD 40-250/13	65	122	145	185																							
MD 50-125/2.2											292	132	160	122	139			190		240			230	431	230	PG 13.5	
MD 50-125/3																							451	230			
MD 50-125/4																							479	232			
MD 50-160/5.5						50	102	125	165		340	180	153		100	70		100		50			260	495	278	PG 16	
MD 50-160/7.5																											
MD 50-200/9.2										20	360	160	200	181								13	300	585	355	PG 21	
MD 50-200/11																											
MD 65-125/5.5											340	180	153					212		280	65		260	495	278	PG 16	
MD 65-125/7.5	80	138	160	200	22	65	122	145	185							95											
MD 65-160/11											360	200	181										300	585	355	PG 21	
MD 65-160/15																											

[1] = Three-phase/Trifase  
[2] = Single-phase/Monofase

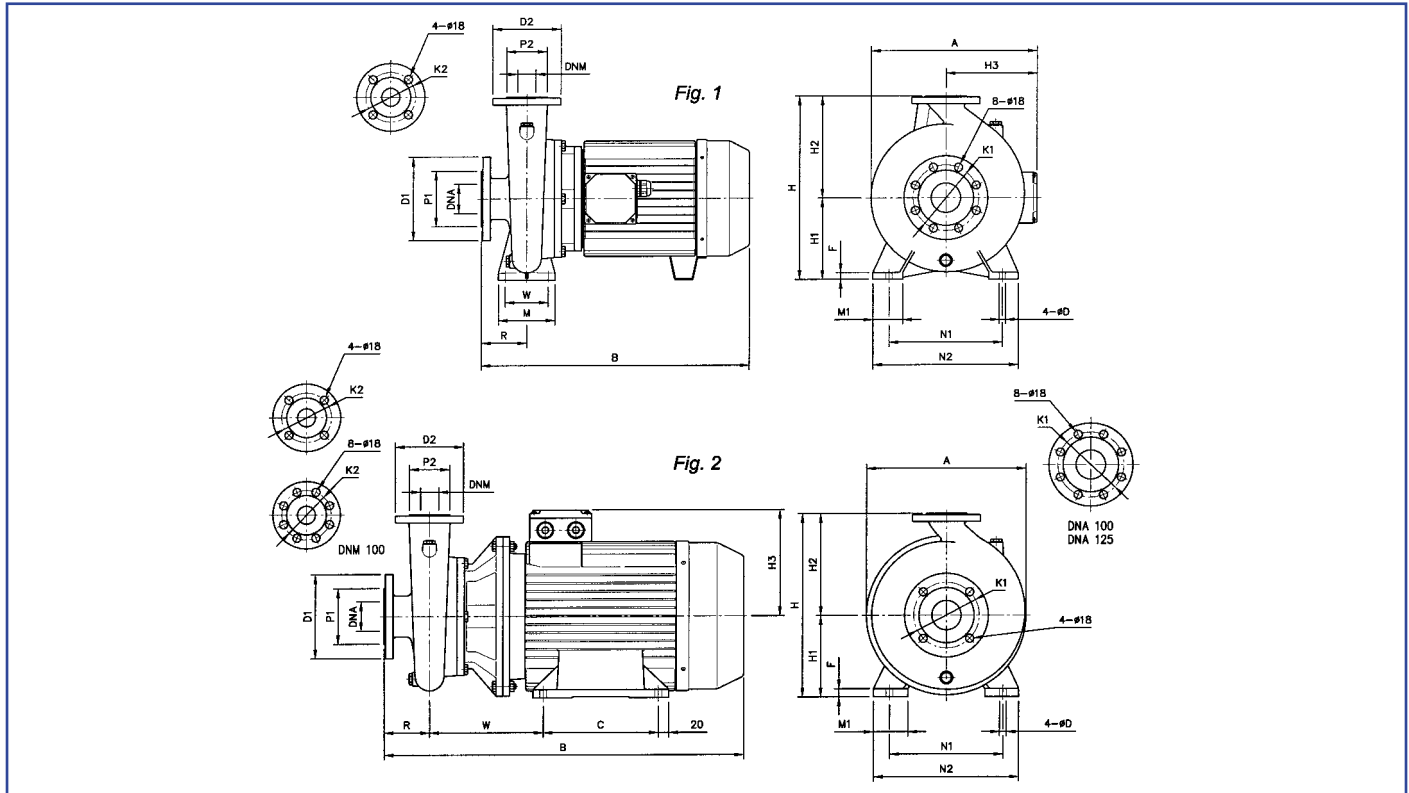


Model/Modello	Dimensions/Dimensioni (mm)																									
	DNA	P1	K1	D1	SA	DNM	P2	K2	D2	SM	H	H1	H2	H3	R	W	N1	M	N2	M1	F	A	B	C	V	
MD 40-250/15	65					40	88	110	150	18																
MD 50-250/15	65																									
MD 50-250/18.5	65	122	145	185	20	50	102	125	165		405	180	225	230	100	95	250	125	320	65	15	352	734	501		PG 21
MD 50-250/22	65																									
MD 65-200/18.5	80	138	160	200	22	65	122	145	185																	
MD 65-200/22	80																						310	736	548	

# DIMENSIONS/DIMENSIONI

MMD

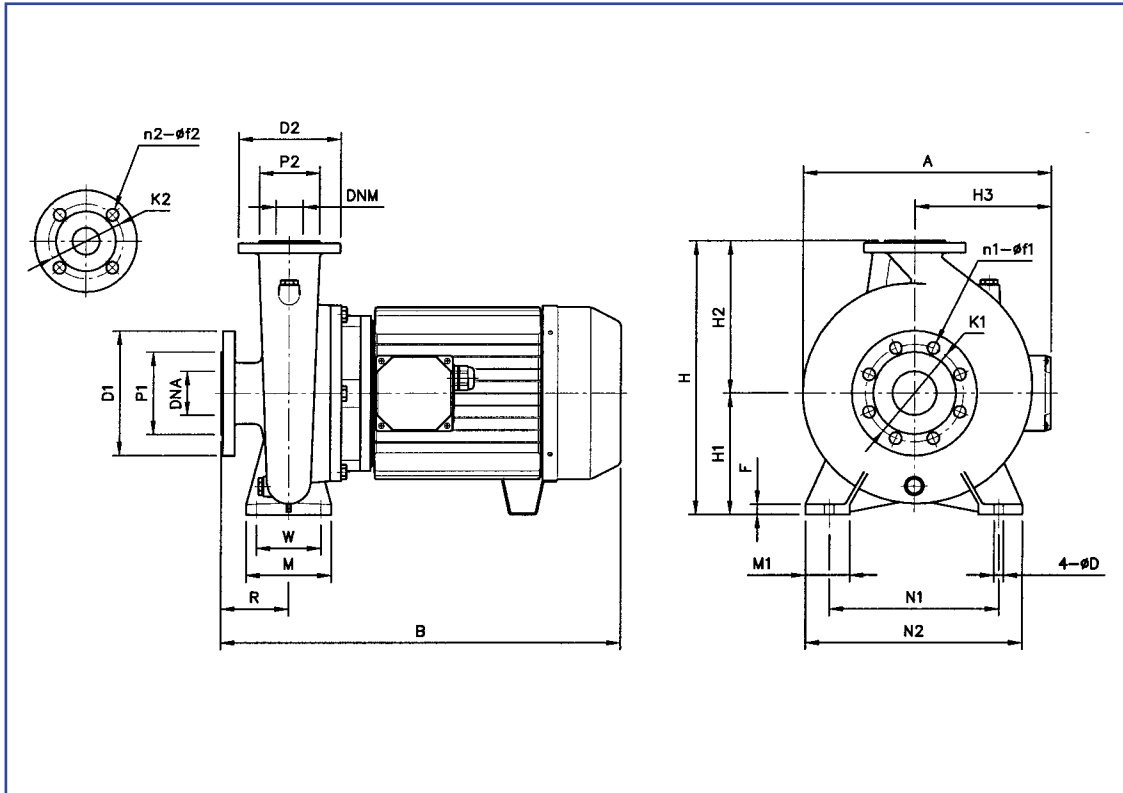
2 POLES/2 POLI



# DIMENSIONAL TABLE/TABELLA DIMENSIONI

Model/Modello	Fig.	Dimensions/Dimensioni [mm]																				Weight/ Peso [Kg]			
		DNA	P1	K1	D1	DNM	P2	K2	D2	H	H1	H2	H3	R	W	N1	M	N2	M1	F	A		B	C	D
MMD 65-250/22	2	80	138	160	200	65	122	145	185	450	180	250	230	100	293	280	-	320	55	22	365	810	241	14	144
MMD 65-250/30											200		257		325	318		360	60	24	400	905	305	18	172
MMD 65-250/37											200		257		325	318		360	60	24	400	905	305	18	190
MMD 80-160/10	1									405	225	184		95	250	125		65	14	345	665	-	14	74	
MMD 80-160/12.5										180		320		88.5											
MMD 80-160/15										180		320		88.5											
MMD 80-200/18.5	2	100	158	180	220	80	138	160	200	430	250	230	125	293	280			55	22	360	835	241	18	132	
MMD 80-200/22																		55	22	360	835	241		150	
MMD 80-200/30																		55	22	360	835	241		192	
MMD 80-200/37	2									200	257	257	125	325				360	60	24	400	930	305	18	210
MMD 80-250/37																		360	60	24	400	930	305		196
MMD 100-200/22																		320	55	22	385	835	241		14
MMD 100-200/30	2	125	188	210	250	100	158	180	220	480	180	280	230	293	318			320	55	22	385	835	241	14	202
MMD 100-200/37																		360	60	24	400	930	305		18

# DIMENSIONS/DIMENSIONI

**MMD4**
**4 POLES/4 POLI**


# DIMENSIONAL TABLE/TABELLA DIMENSIONI

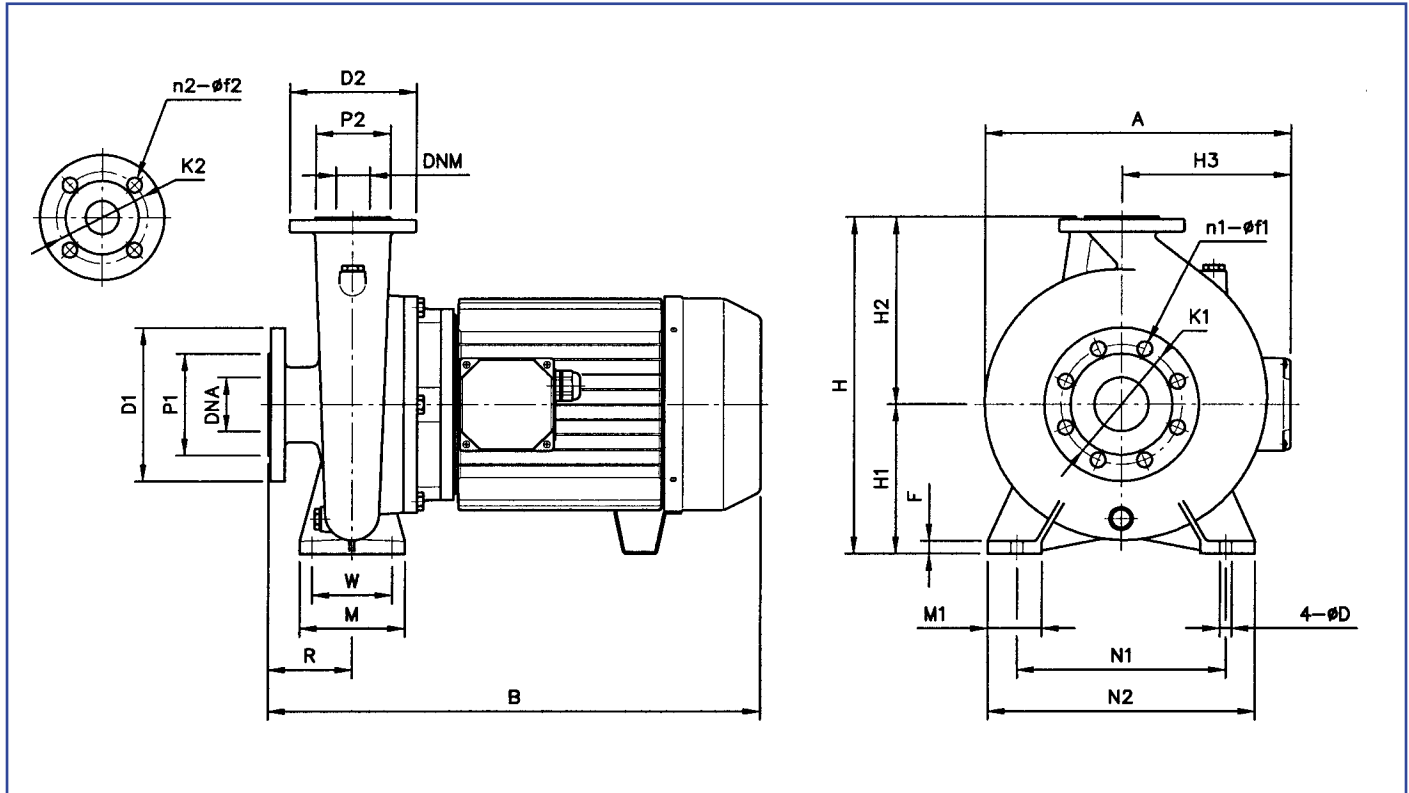
Model/Modello	Dimensions/Dimensioni [mm]																				Weight/ Peso [Kg]						
	DNA	n1	f1	P1	K1	D1	DNM	n2	f2	P2	K2	D2	H	H1	H2	H3	R	W	N1	M		N2	M1	F	A	B	D
MMD4 32-125/0.25R													252	112	140	107									205	405	19.5
MMD4 32-125/0.25													292	132	160		80	70		100		50		240		23	
MMD4 32-160/0.37													340	160	180	118				190				255	425	30	
MMD4 32-200/0.75	50			102	125	165	32			78	100	140														31	
MMD4 32-200/0.92													405	180	225	149	100	95	250	125	320	65		320	485	47	
MMD4 32-250/1.1																										49	
MMD4 32-250/1.5																										49	
MMD4 40-125/0.25													252	112	140											20.5	
MMD4 40-125/0.37													292	132	160		80									21.5	
MMD4 40-160/0.55													340	160	180											25	
MMD4 40-200/1.1							40			88	110	150											12	285		36	
MMD4 40-200/1.5													340	160	180									242	485	36	
MMD4 40-250/1.5													405	180	225									325		47.5	
MMD4 40-250/2.2																159				95	250	125	320	65	525	54	
MMD4 50-125/0.37	65	4	18	122	145	185		4	18				292	132	160	107										25	
MMD4 50-125/0.55																										26	
MMD4 50-160/0.75													340			118				70		100	50	269	445	32	
MMD4 50-160/0.92							50			102	125	165		160	180					212		265		285	485	33	
MMD4 50-200/1.1													360			159										38	
MMD4 50-200/1.5																149				100						40	
MMD4 50-250/2.2													405	180	225	159										57	
MMD4 50-250/3.0																				250		320	14	333	525	63	
MMD4 65-125/0.75													340		180	118									286	445	32
MMD4 65-160/1.1														160						95	212	125	280	65	12	37.5	
MMD4 65-160/1.5													360		200	149								288	485	40	
MMD4 65-200/2.2	80		138	160	200	65				122	145	185														51	
MMD4 65-200/3.0													405	180	225	159				250		320		328	525	57	
MMD4 65-250/4.0																							14		535	80	
MMD4 65-250/5.5													450	200	250					120	280	160	360	80	640	90	



**DIMENSIONS/DIMENSIONI**

MMD

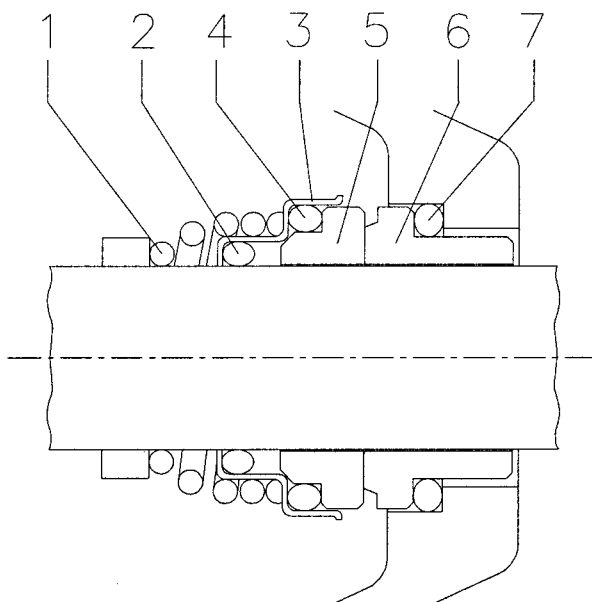
4 POLES/4 POLI



**DIMENSIONAL TABLE/TABELLA DIMENSIONI**

Model/Modello	Dimensions/Dimensioni [mm]																				Weight/ Peso [Kg]									
	DNA	n1	f1	P1	K1	D1	DNM	n2	f2	P2	K2	D2	H	H1	H2	H3	R	W	N1	M		N2	M1	F	A	B	D			
MMD4 80-160/1.5	100	12	18	158	180	220	80	4	138	160	200	430	405	225	149	95	250	320	65	14	330	510	14	45						
MMD4 80-160/2.2													180	225	149										550	51				
MMD4 80-200/3.0													250	159	125										280	345	12	355	560	73
MMD4 80-250/4.0													250	125	184										315	400	400	665	106	
MMD4 80-250/5.5													250	159	280										360	14	385	665	78	
MMD4 80-250/7.5													250	184	280										360	14	385	665	90	
MMD4 100-200/4.0	125	8	18	188	210	250	100	18	158	180	220	505	225	184	120	160	80	14	420	675	118	18	124							
MMD4 100-200/5.5													280	159										280	360	14	385	665	90	
MMD4 100-250/7.5													280	184										280	360	14	385	665	112	
MMD4 100-250/9.2													280	159										280	360	14	385	665	118	
MMD4 125-200/5.5													280	159										280	360	14	385	665	124	
MMD4 125-200/7.5R													280	159										280	360	14	385	665	134	
MMD4 125-200/7.5	150	12	18	212	240	285	125	18	188	210	250	565	315	140	315	400	14	470	770	140	16	190								
MMD4 125-200/9.2													255	140									315	400	14	470	770	140		
MMD4 125-250/11													255	140									315	400	14	470	770	162		
MMD4 125-250/15													255	140									315	400	14	470	770	190		
MMD4 150-200/7.5													255	140									315	400	14	470	770	167		
MMD4 150-200/9.2													255	140									315	400	14	470	770	173		
MMD4 150-200/11	200	12	22	268	340	150	22	212	240	285	680	280	400	160	155	450	200	550	100	875	24	203								
MMD4 150-200/15													295	160									450	200	550	100	875	203		
MMD4 200-250/18.5R													295	160									450	200	550	100	875	278		
MMD4 200-250/18.5													295	160									450	200	550	100	875	278		
MMD4 200-250/22R													295	160									450	200	550	100	875	300		
MMD4 200-250/22													295	160									450	200	550	100	875	300		

## CONSTRUCTIONS/PARTICOLARE TENUTA MECCANICA



REF	PART NAME DENOMINAZIONE	PUMP TYPE TIPO POMPA	MATERIAL/MATERIALE			
			STANDARD Water max temperature: Temperatura max dell'acqua: 90°C		OPTIONAL Water max temperature: Temperatura max dell'acqua: 110°C	
1	Spring/Molla	MD	AISI 316	AISI 316	AISI 316	AISI 316
2	O Ring		NBR	FPM	FPM	FPM
3	Cover/Armatura		AISI 304	AISI 316	AISI 316	AISI 316
4	O Ring		NBR	FPM	FPM	FPM
5	Rotary Ring/Parte rotante		Ceramic/Ceramica	Ceramic/ Ceramica	Tungsten Carbide/ Carburo di tungsteno	SiC
6	Stationary ring/Parte fissa		Carbon/Carbone	Carbon/ Carbone	Tungsten Carbide/ Carburo di tungsteno	SiC
7	O Ring		NBR	FPM	FPM	FPM

REF	PART NAME DENOMINAZIONE	PUMP TYPE TIPO POMPA	MATERIAL/MATERIALE	
			STANDARD Water max temperature: Temperatura max dell'acqua: 110°C	OPTIONAL Water max temperature: Temperatura max dell'acqua: 90°C
1	Spring/Molla	MMD MMD4	AISI 316	AISI 316
2	O Ring		EPDM	NBR
3	Cover/Armatura		AISI 316	AISI 316
4	O Ring		EPDM	NBR
5	Rotary Ring/Parte rotante		SiC	SiC
6	Stationary ring/Parte fissa		SiC	SiC
7	O Ring		EPDM	NBR



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