

TNM-MONOBLOK TİP SANTRİFÜJ POMPALAR

Uygulama Alanları

- > TNM pompalar aşındırıcı olmayan, içinde katı parçacıklar ve elyaf bulunmayan, temiz veya çok hafif kirlı (katı partikül oranı 0,02 ye kadar)
- > Su temini, ısıtma ve soğutma sistemlerinde, sirkülasyon ve akışkan transferi, endüstriyel uygulamalarda.
- > 0-400 m³/h Kapasite Toplam Basma Yüksekliği 100m.
- > Motor gücü 37kW'a kadar
- > Çalışma Sıcaklığı 90 °C'ye kadar-Çalışma Basıncı 10 Bar



Yapı

- > Tek kademeli, salyangozlu, kapalı çarklı, monoblok, santrifüj pompalardır.
- > Emme ve basma flanşları TS EN 1092 - 2 / PN 16' ya uygundur.
- > VDI standartlarına ve IEC yapı büyüklüklerine uygun STANDART elektrik motorları ile kullanılır.
- > Arkadan sökülebilir tasarım sayesinde, salyangozu boru tesisatından ayırmadan motor, motor taşıyıcısı, salmastra yatağı ve çark sökülebilir.
- > Eksenel kuvvet arka aştNLa halkası/dengeleme delikleri sistemi ile dengelenmiştir.

Mil Sızdırmazlığı:

- > Basılan sıvı ile yıkanan, soğutmasız ve balanssız tipte tekli mekanik salmastralar kullanılmaktadır.

Çalışma şartları

- > Çalışma sıcaklığı -10 + 90 °C arasında (daha yüksek sıcaklıklar için lütfen irtibata geçiniz)
- > Ortam sıcaklığı 40 °C'a kadar
- > Max. Emme yüksekliği 7 m'ye kadar (emiş derinliği kontrolü için lütfen firmamıza danışın)
- > İzin verilen max. çalışma basıncı 10 bar (16 bar)

Pompa-motor bağlantısı

- > TNM pompalar B5 yapı formunda standart bir elektrik motoruna özel bir adaptör vasıtasıyla bağlanır
- > Elektrik motorları 380 V – 50 Hz. IE3 ve IP55 koruma sınıfındadır
- > Elektrik motorları frekans konverteri ile çalıştırılmaya uygundur

İsteğe bağlı özellikler

- > Sıvı cinsine bağlı özel mekanik salmastra seçimi
 - > AISI 316 pompa mili
 - > Diğer motor koruma sınıfları
 - > Exproof motor (ATEX – 94/9 EEC direktifine uygun)
- Diğer motor voltajları
- > 60 Hz. De çalışma
- (Lütfen çalışma değerleri kontrolü için firmamıza danışınız)

Pompa flanşları

DIN 2533'e uygun

Pompa İsimlendirmesi

TNM 80 - 200

Pompa tipi TNM

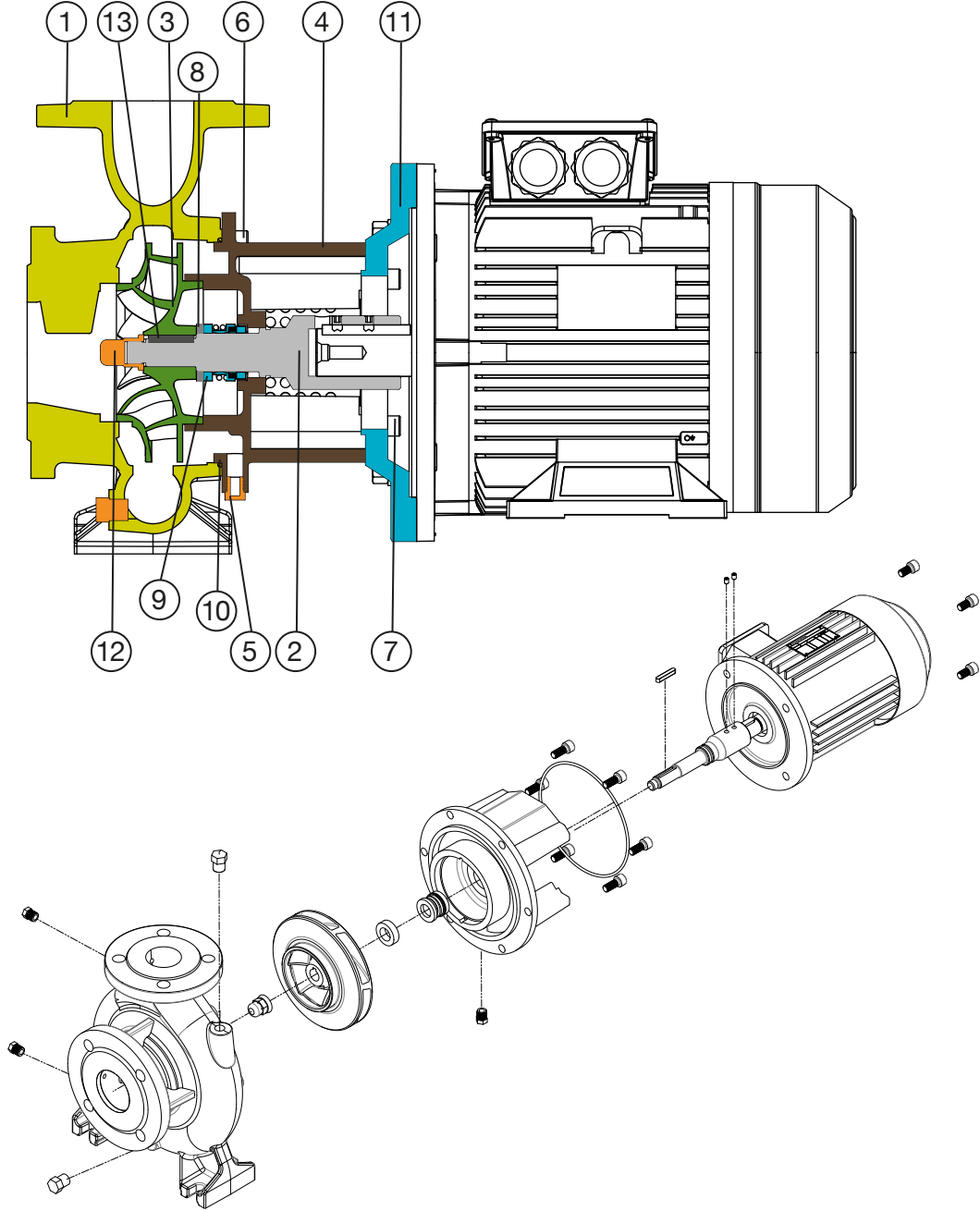
Basma flanş çapı (mm) DN 80

Nominal çark çapı : 200

PARÇA ADI	MALZEME			
	Standart Üretim	Bronz Çarklı Üretim	Komple Bronz Üretim	Paslanmaz Çelik
Gövde	GG 25	GG 25	Bronz	AISI 304 - 316
Çark	GG 25	Bronz	Bronz	AISI 304 - 316
Aşınma Halkası	**	Bronz	Bronz	AISI 420
Pompa Mili	AISI 420	AISI 420	AISI 420	AISI 304 - 316

GENEL BOYUTLAR

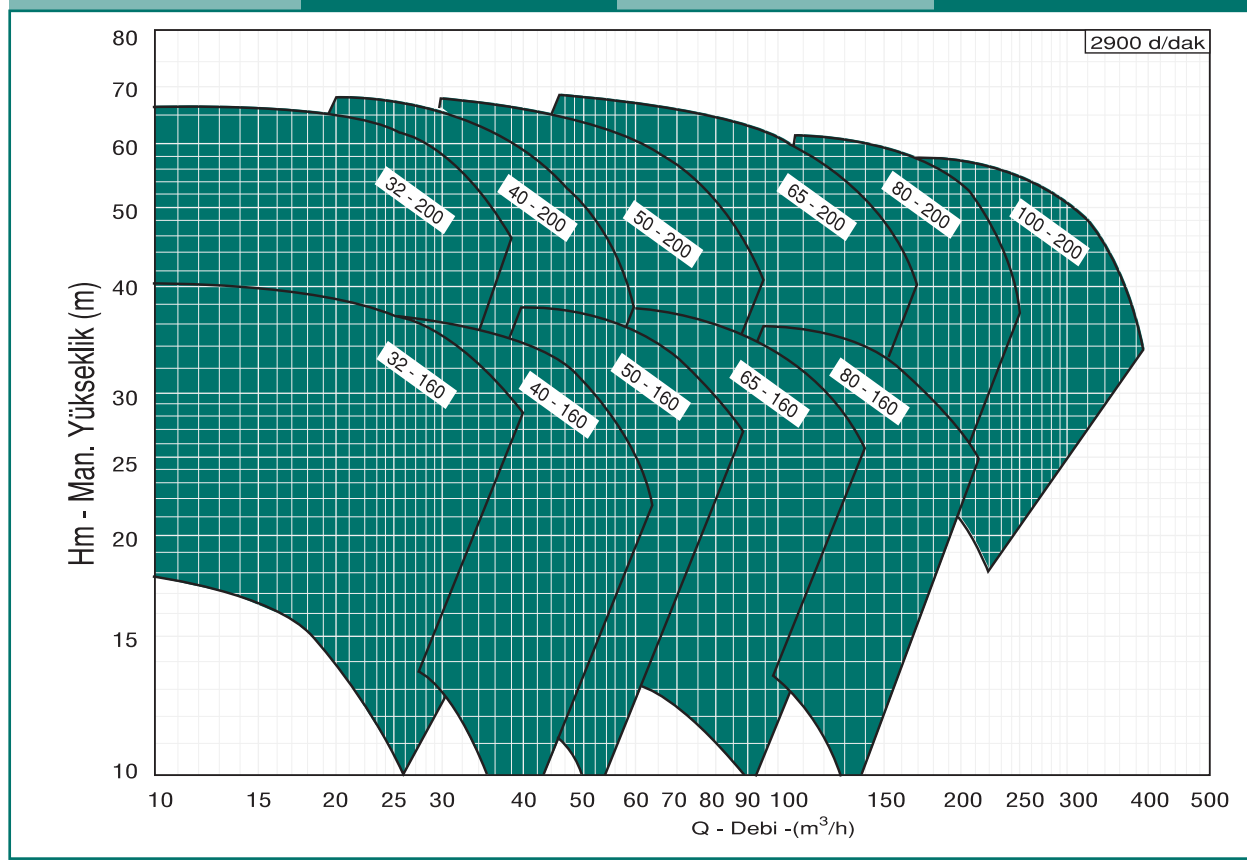
Kesit Resmi, Parça Listesi



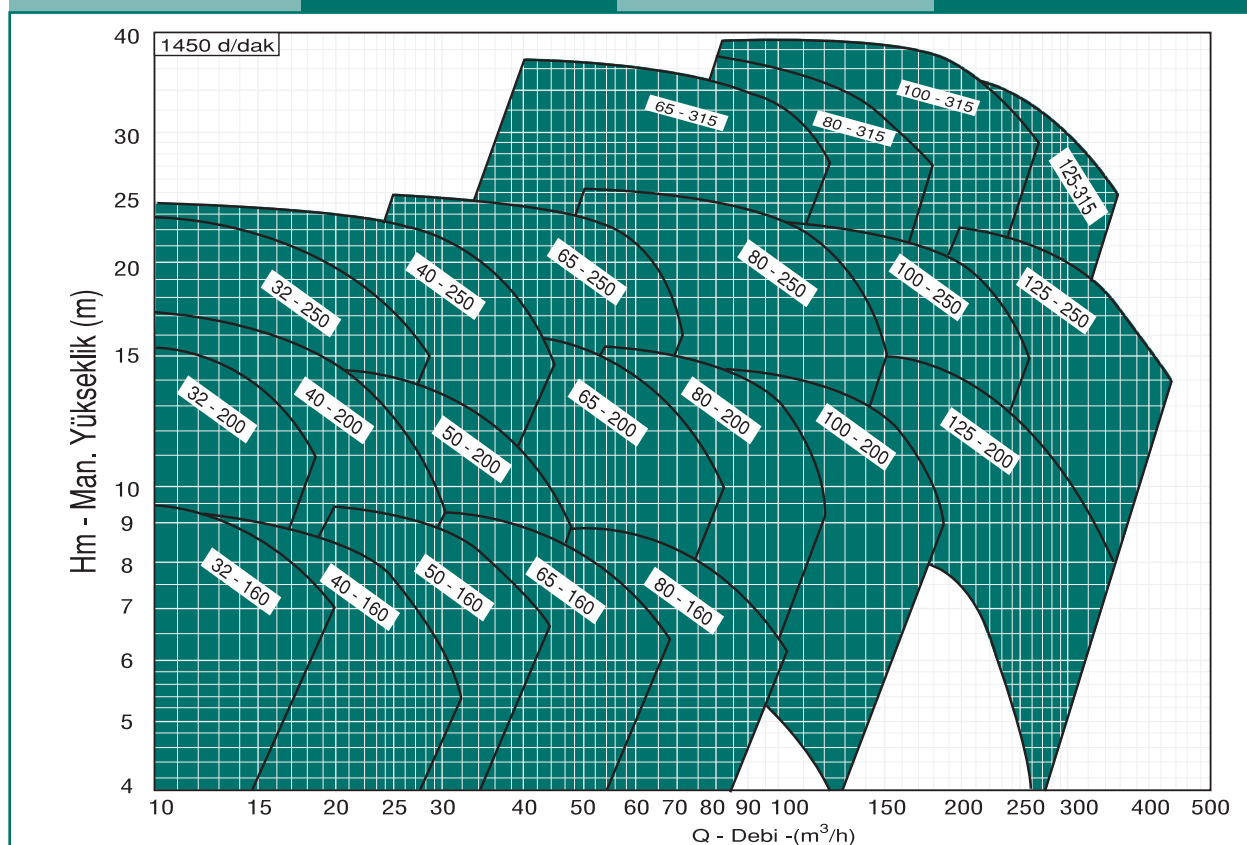
Parça No	Parça adı (Standart Pompa Parçaları)	Parça No	Parça adı (Standart Pompa Parçaları)
1	IN-LINE SALYANGOZ GÖVDE	8	MEKANİK SALMASTRA BURCU
2	MİL	9	MEKANİK SALMASTRA
3	ÇARK	10	O-RING
4	MOTOR TAŞIYICI ADAPTÖR	11	FLANŞ
5	HAVA ALMA TAPASI (BOŞALTMA)	12	FAN SOMUNU
6	İMBUS CİVATA	13	KAMA
7	İMBUS FLANŞ CİVATASI		

TEKNİK VERİLER

ÇALIŞMA ALANI - TNM (2900 RPM)



ÇALIŞMA ALANI - TNM (1450 RPM)



GENEL ÖLÇÜ TABLOSU

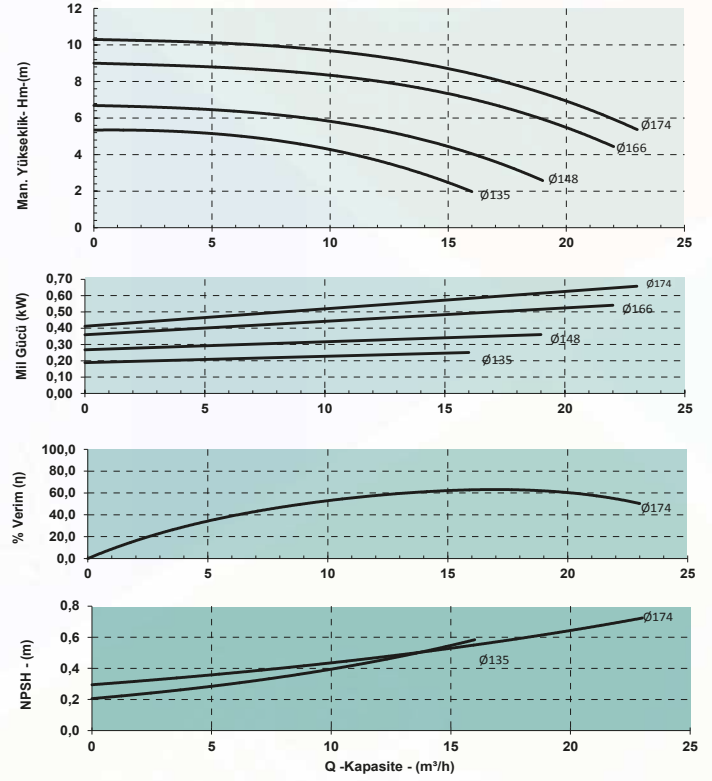
1450 rpm

Pompa Tipi	KW	DN Flanşlar		Boyutlar (mm)												Pompa ve Motor Ağırlık	
		Emme	Basma	Lm	L	a	h1	h2	n1	n2	m1	m2	f	kg			
TNM 32-160	0,55	32	50	233	473	80	132	160	240	190	100	70	160	41			
TNM 32-160	0,75			233	473	80							160	42			
TNM 32-200	0,55	32	50	233	473	80	160	180	240	190	100	70	160	45			
TNM 32-200	0,75			233	473	80							160	46			
TNM 32-200	1,1			250	490	80							160	49			
TNM 32-200	1,5			275	515	80							160	51			
TNM 32-250	0,55	32	50	289	559	100	180	225	320	250	125	95	170	45			
TNM 32-250	0,75			289	559	100							170	46			
TNM 32-250	1,1			313	583	100							170	49			
TNM 32-250	1,5			338	608	100							170	51			
TNM 32-250	2,2			375	665	100							190	51			
TNM 40-160	0,55	40	65	233	473	80	132	160	240	190	100	70	160	41			
TNM 40-160	0,75			233	473	80							160	42			
TNM 40-160	1,1			250	490	80							160	43			
TNM 40-200	0,55	40	65	233	493	100	160	180	265	212	100	70	160	48			
TNM 40-200	0,75			233	493	100							160	49			
TNM 40-200	1,1			250	510	100							160	52			
TNM 40-200	1,5			275	535	100							160	54			
TNM 40-250	1,5	40	65	275	555	100	180	225	320	250	125	95	180	68			
TNM 40-250	2,2			305	585	100							180	71			
TNM 40-250	3			305	585	100							180	74			
TNM 50-160	0,75	50	65	233	493	100	160	180	265	212	100	70	160	47			
TNM 50-160	1,1			250	510	100							160	50			
TNM 50-160	1,5			275	535	100							160	52			
TNM 50-200	0,75	50	65	233	493	100	160	200	265	212	100	70	160	54			
TNM 50-200	1,1			250	510	100							160	56			
TNM 50-200	1,5			275	535	100							160	58			
TNM 50-200	2,2			305	565	100							160	63			
TNM 50-250	2,2	50	65	305	620	100	180	225	320	250	125	95	215	72			
TNM 50-250	3			305	620	100							215	75			
TNM 50-250	4			324	639	100							215	83			
TNM 50-250	5,5			375	715	100							240	105			
TNM 65-160	0,75	65	80	233	503	100	160	200	280	212	125	95	170	52			
TNM 65-160	1,1			250	520	100							170	55			
TNM 65-160	1,5			275	545	100							170	57			
TNM 65-160	2,2			305	595	100							190	68			
TNM 65-200	2,2			305	585	100							180	69			
TNM 65-200	3	65	80	305	585	100	180	225	320	250	125	95	180	73			
TNM 65-200	4			324	604	100							180	81			
TNM 65-250	3	65	80	305	620	100	200	250	360	280	160	120	215	89			
TNM 65-250	4			324	639	100							215	97			
TNM 65-250	5,5			375	690	100							215	116			
TNM 65-250	7,5			413	728	100							215	124			
TNM 65-315	5,5	65	80	375	715	125	225	280	400	315	160	120	215	136			
TNM 65-315	7,5			413	753	125							215	144			
TNM 65-315	9			413	753	125							215	153			
TNM 65-315	11			484	849	125							240	213			
TNM 65-315	15	80	100	528	893	125	180	225	320	250	125	95	240	245			
TNM 80-160	1,1			250	535	125							160	61			
TNM 80-160	1,5			275	560	125							160	62			
TNM 80-160	2,2			305	610	125							180	75			
TNM 80-160	3	80	100	305	610	125	180	280	400	315	160	120	180	78			
TNM 80-200	2,2			305	620	125							190	84			
TNM 80-200	3			305	620	125							190	84			
TNM 80-200	4			324	639	125							190	92			
TNM 80-200	5,5	80	100	375	715	125	200	280	345	280	125	95	215	115			
TNM 80-200	7,5			413	753	125							215	123			
TNM 80-200	9			413	753	125							215	132			
TNM 80-250	5,5			375	715	125							215	130			
TNM 80-250	7,5	80	100	413	753	125	200	280	400	315	160	120	215	138			
TNM 80-250	11			484	849	125							240	214			
TNM 80-250	15			528	893	125							240	246			
TNM 80-315	11			484	849	125							240	222			
TNM 80-315	15	80	100	528	893	125	250	315	400	315	160	120	240	254			
TNM 80-315	18,5			528	893	125							240	274			
TNM 80-315	22			582	947	125							240	299			
TNM 100-200	3			100	125	305							620	125	200	280	360
TNM 100-200	4	324	639			125	190	104									
TNM 100-200	5,5	375	715			125	215	127									
TNM 100-200	7,5	413	753			125	215	135									
TNM 100-200	9	100	125	413	753	125	225	280	400	315	160	120	215	144			
TNM 100-250	5,5			375	730	140							215	135			
TNM 100-250	7,5			413	768	140							215	143			
TNM 100-250	11			484	864	140							240	218			
TNM 100-250	15			528	908	140							240	250			
TNM 100-250	18,5	100	125	544	924	140	250	315	400	315	160	120	240	270			
TNM 100-315	18,5			544	924	140							240	283			
TNM 100-315	22	100	125	582	962	140	250	315	400	315	160	120	240	308			
TNM 100-315	30			637	1042	140							265	386			
TNM 100-315	370			637	1042	140							265	406			

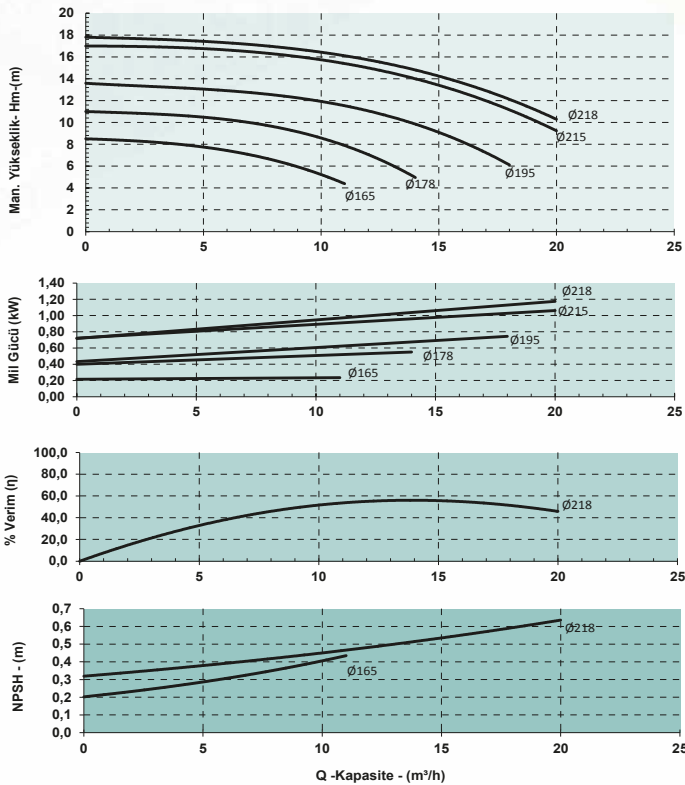
PERFORMANS EĞRİLERİ 1450 d/d



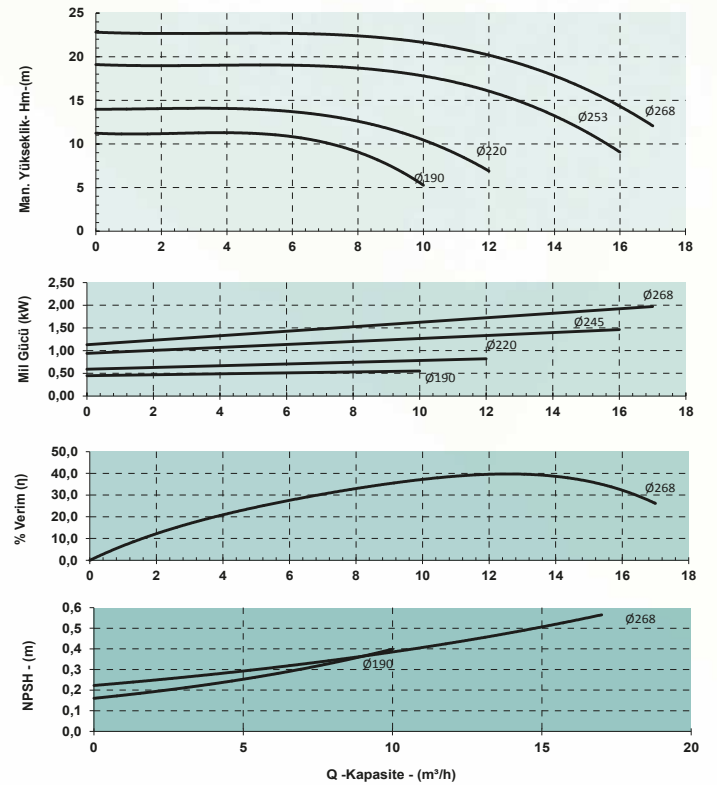
TNM 32-160 50 Hz - 1450 d/d



TNM 32-200 50 Hz - 1450 d/d



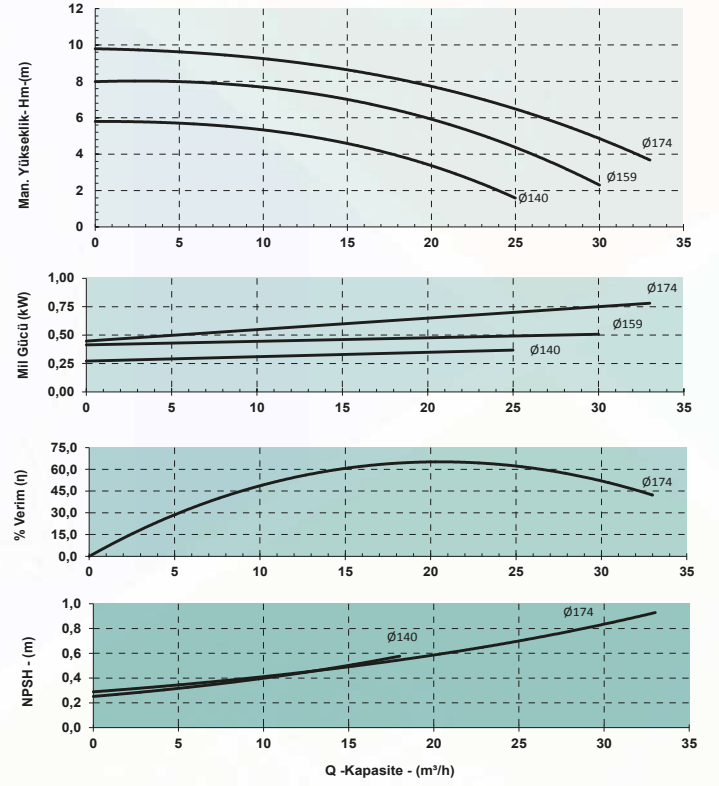
TNM 32-250 50 Hz - 1450 d/d



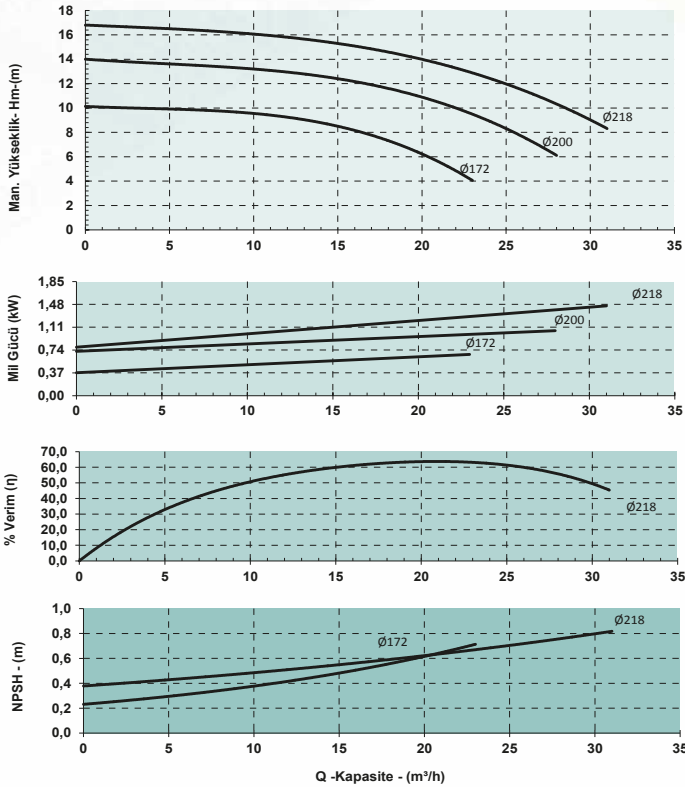
PERFORMANS EĞRİLERİ 1450 d/d



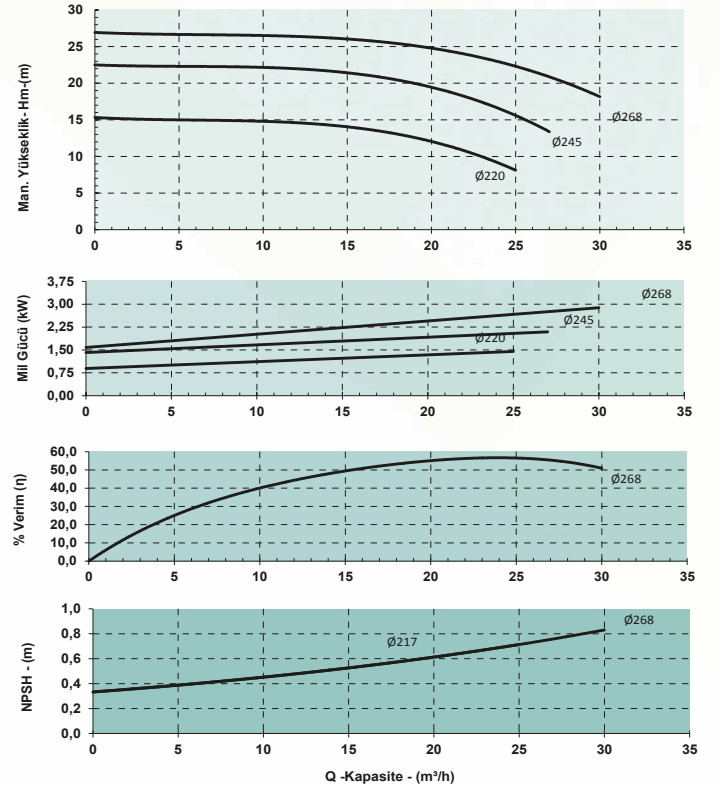
TNM 40-160 50 Hz - 1450 d/d



TNM 40-200 50 Hz - 1450 d/d

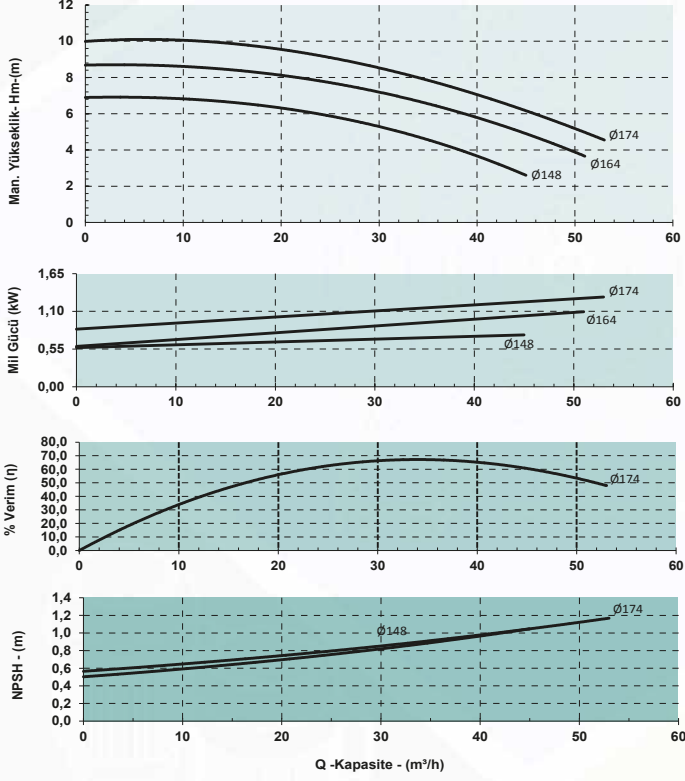


TNM 40-250 50 Hz - 1450 d/d

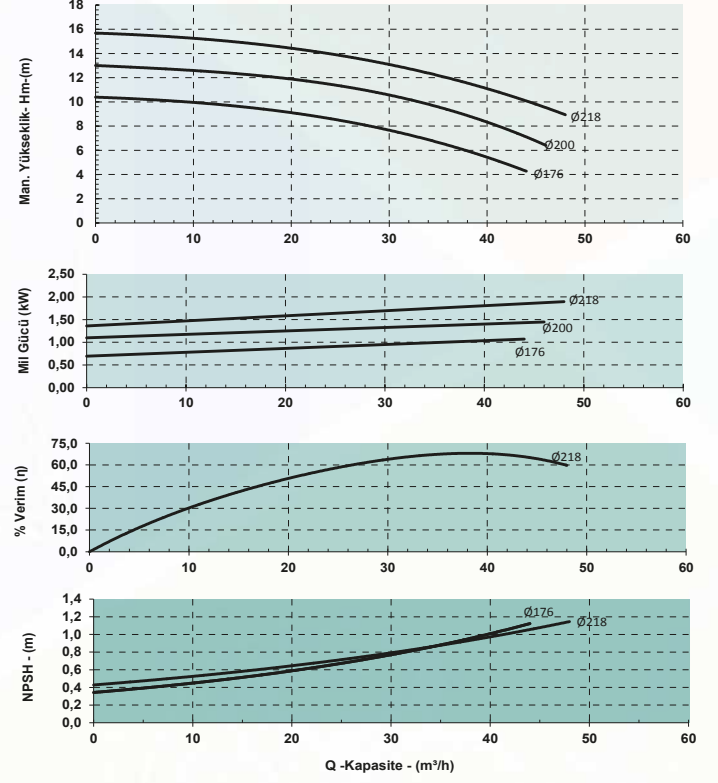


PERFORMANS EĞRİLERİ 1450 d/d

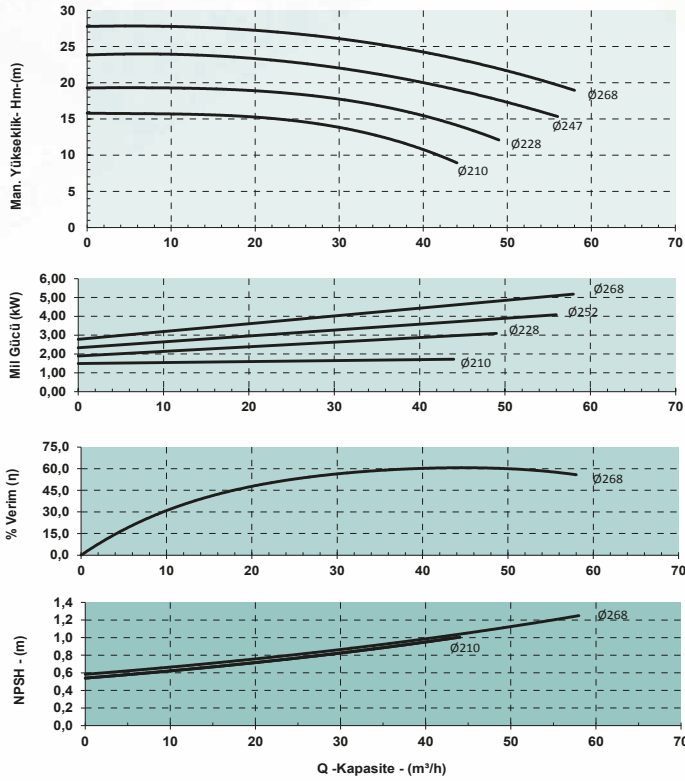
TNM 50-160 50 Hz - 1450 d/d



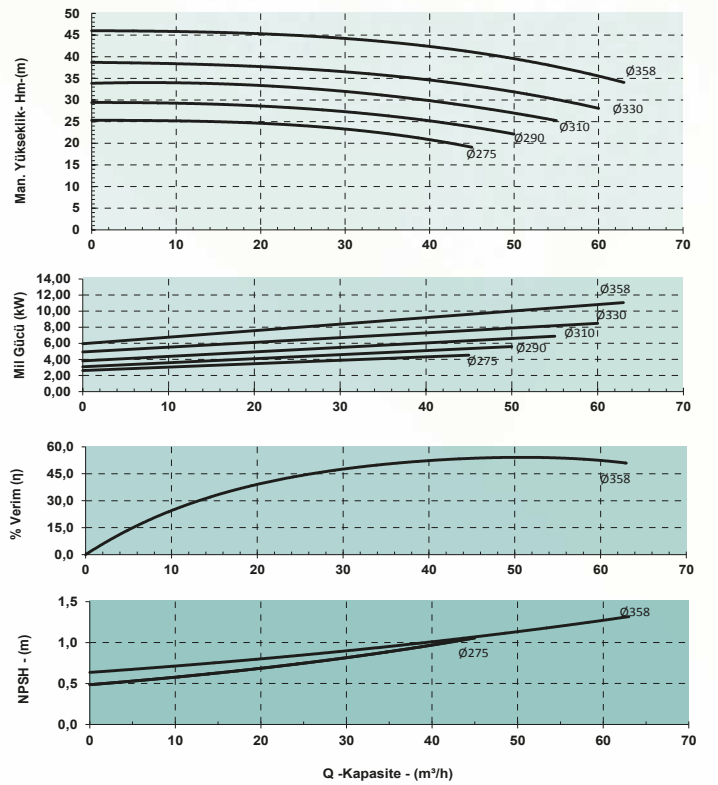
TNM 50-200 50 Hz - 1450 d/d



TNM 50-250 50 Hz - 1450 d/d

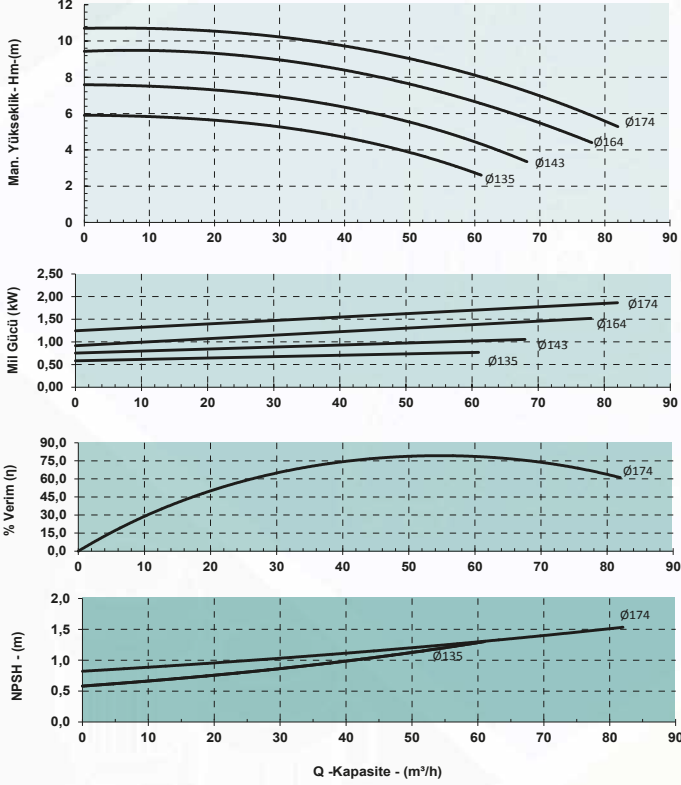


TNM 50-315 50 Hz - 1450 d/d

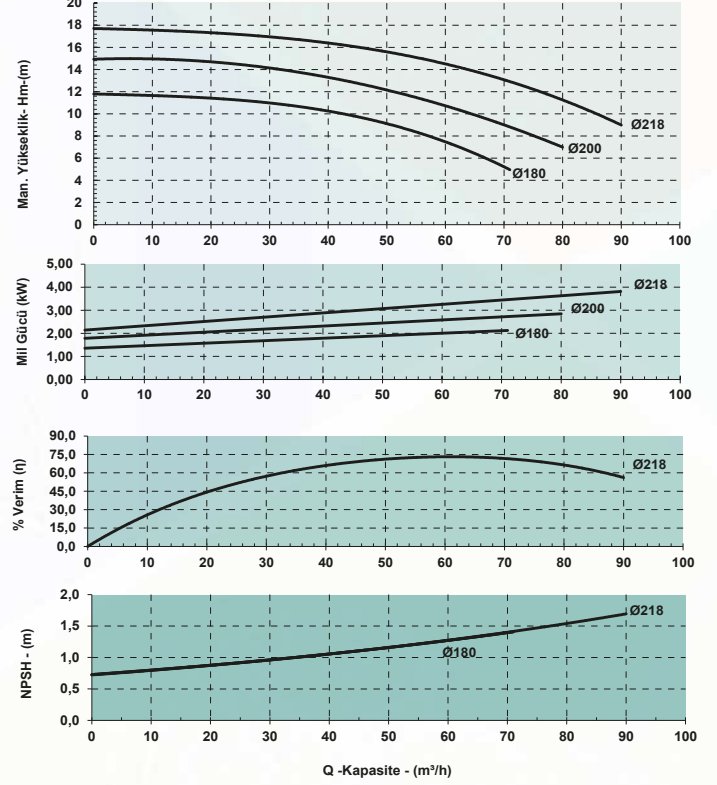


PERFORMANS EĞRİLERİ 1450 d/d

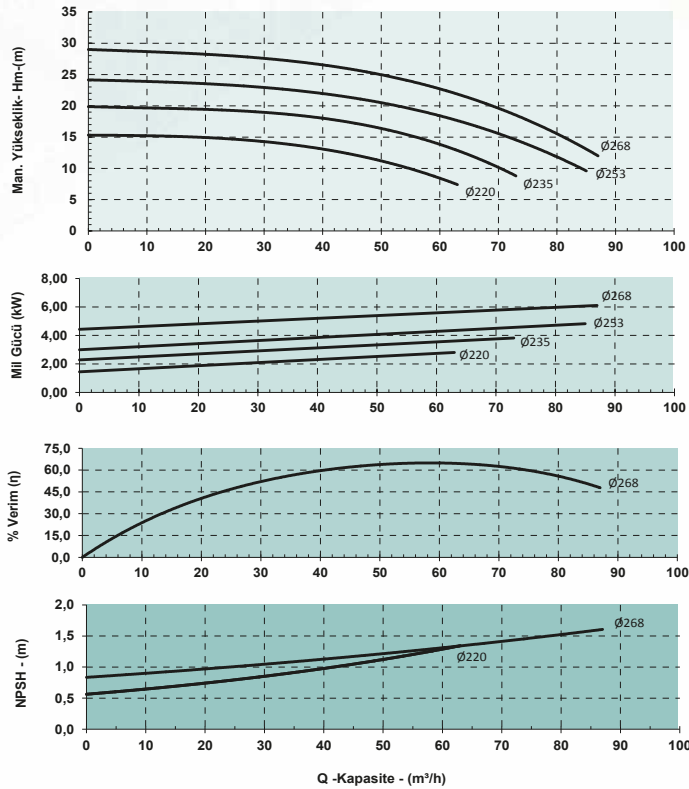
TNM 65-160 50 Hz - 1450 d/d



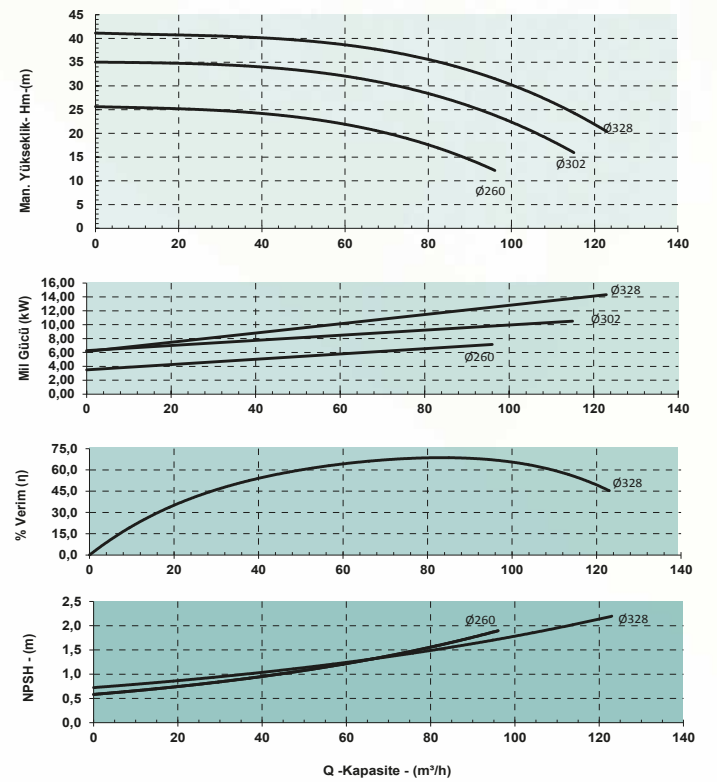
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TNM 65-250 50 Hz - 1450 d/d



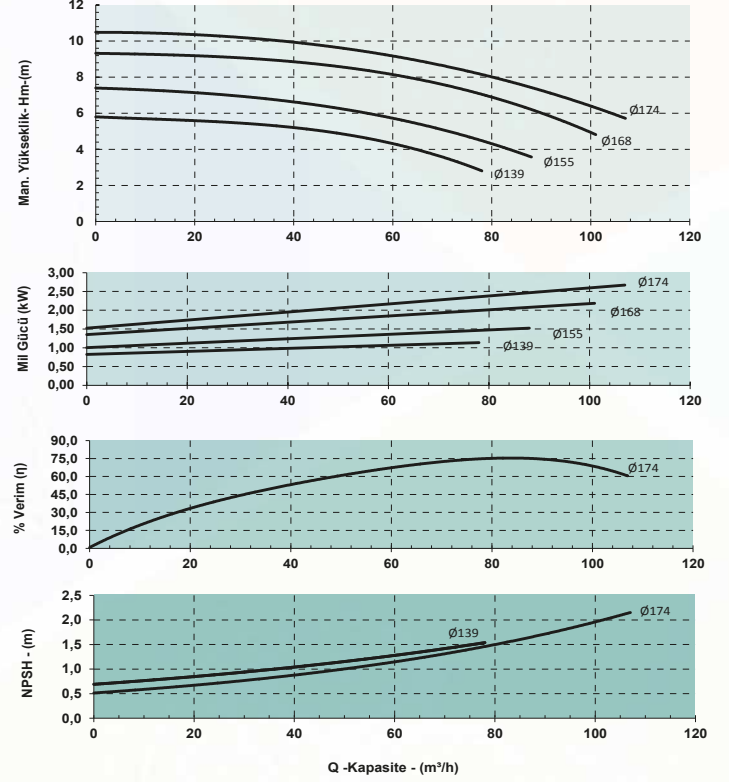
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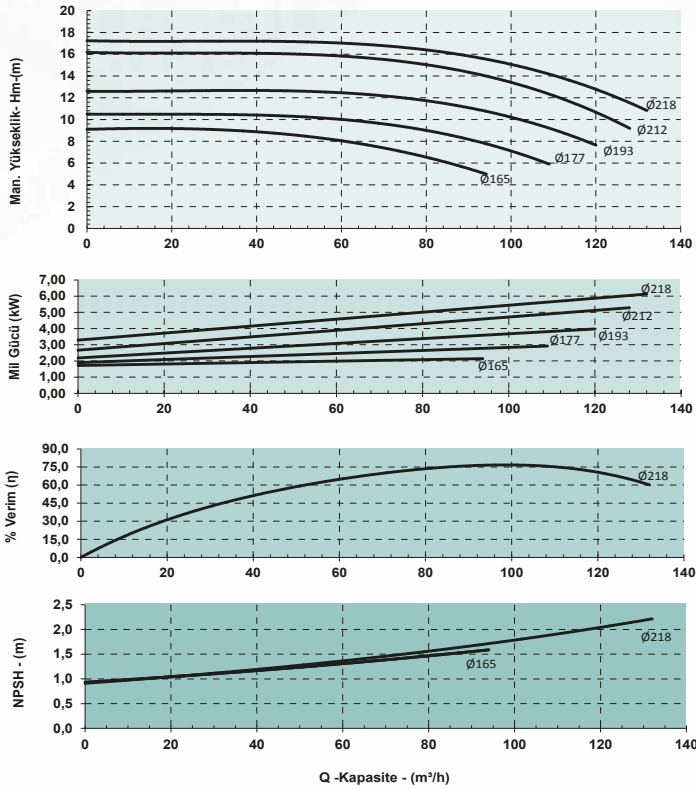
PERFORMANS EĞRİLERİ 1450 d/d



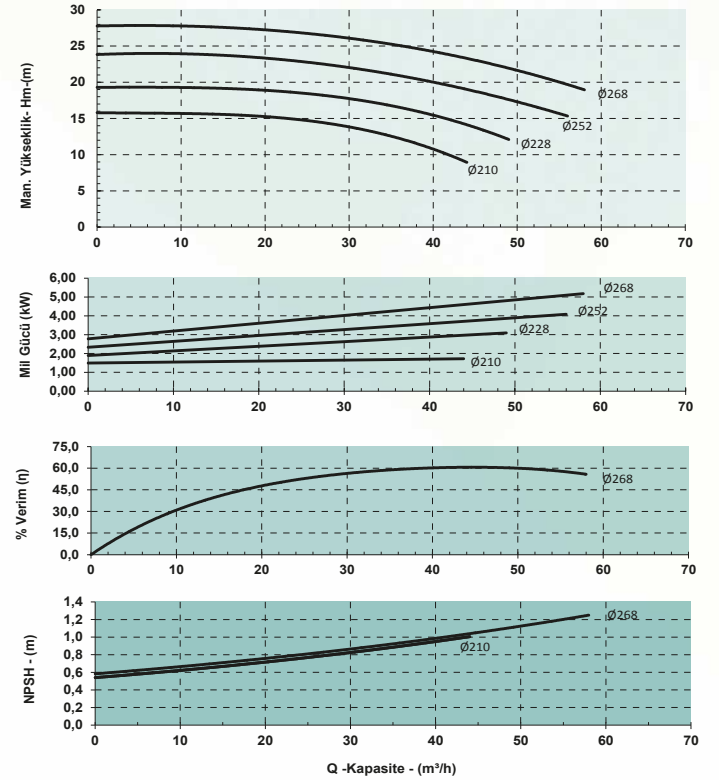
TNM 80-160 50 Hz - 1450 d/d



TNM 80-200 50 Hz - 1450 d/d

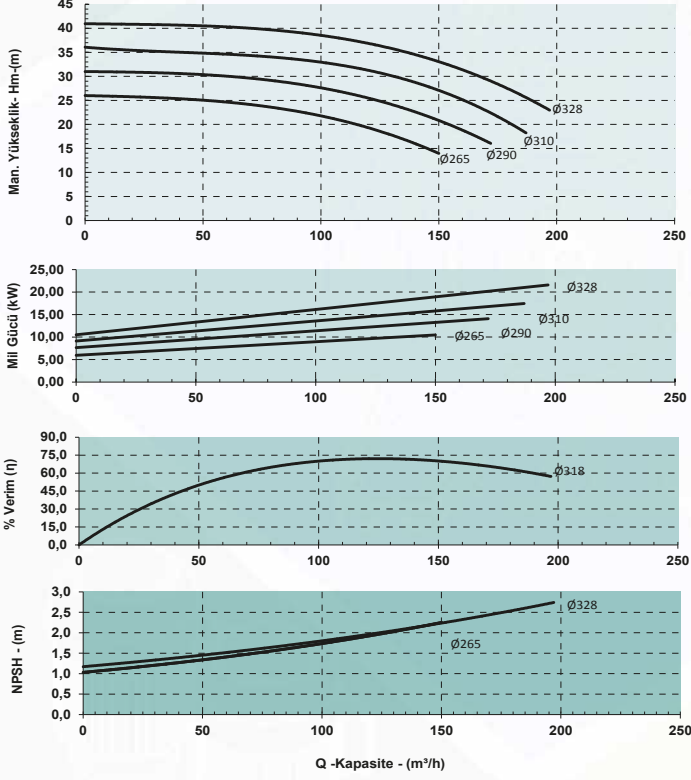


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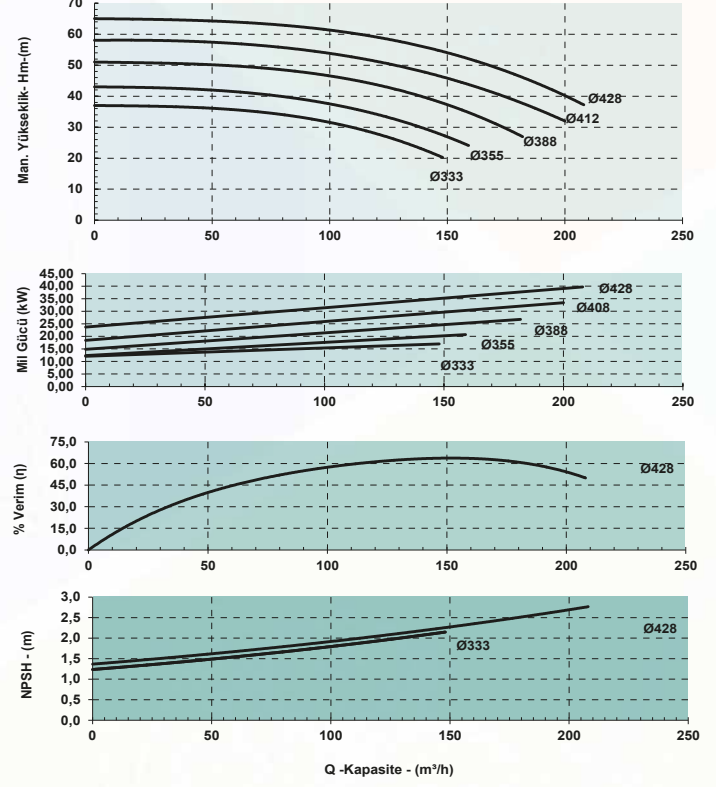


PERFORMANS EĞRİLERİ 1450 d/d

TNM 80-315 50 Hz - 1450 d/d



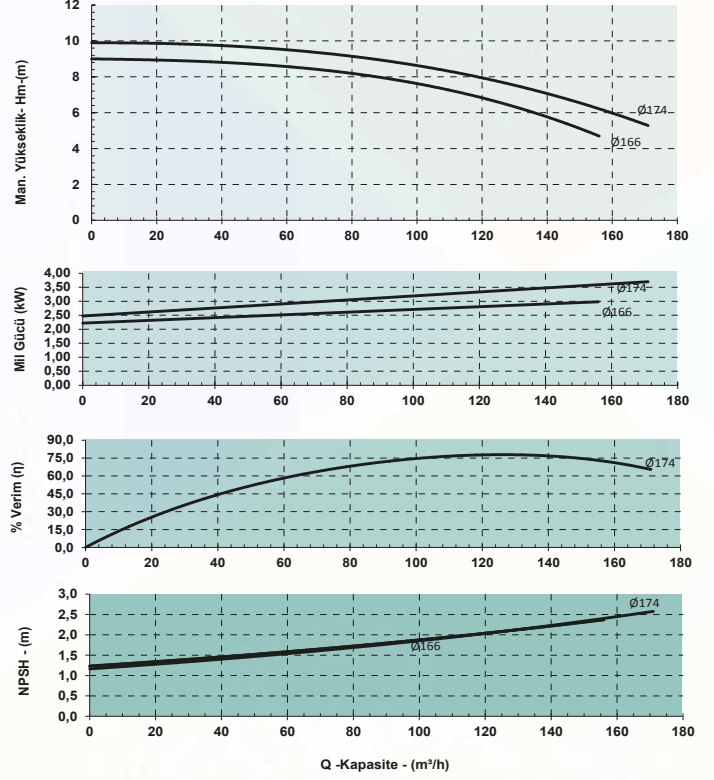
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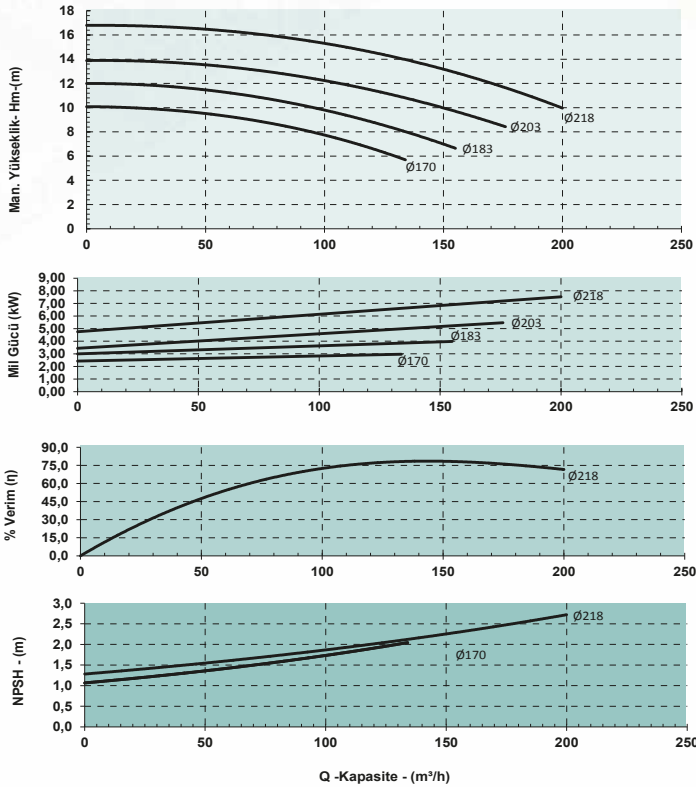
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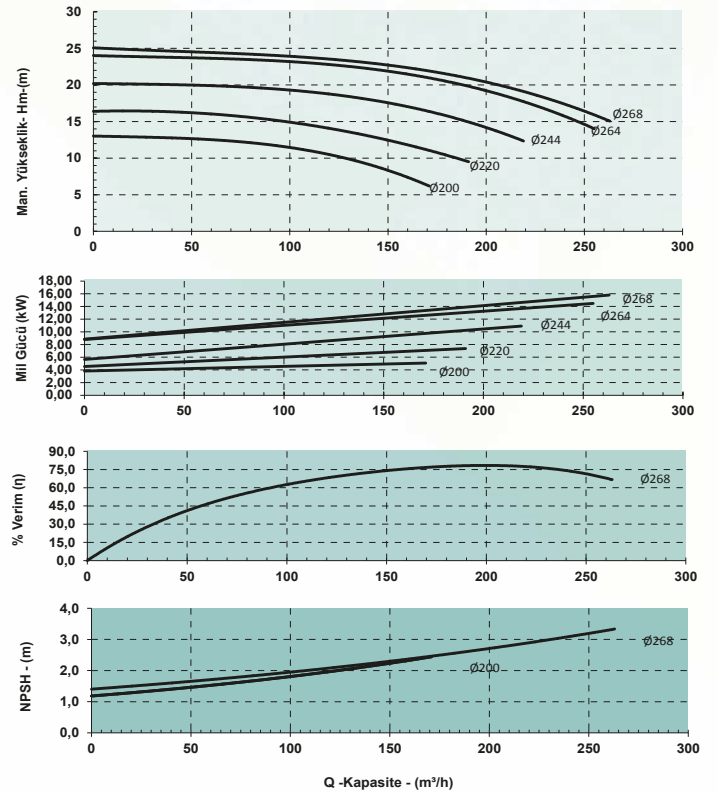
TNM 100-160 50 Hz - 1450 d/d



TNM 100-200 50 Hz - 1450 d/d

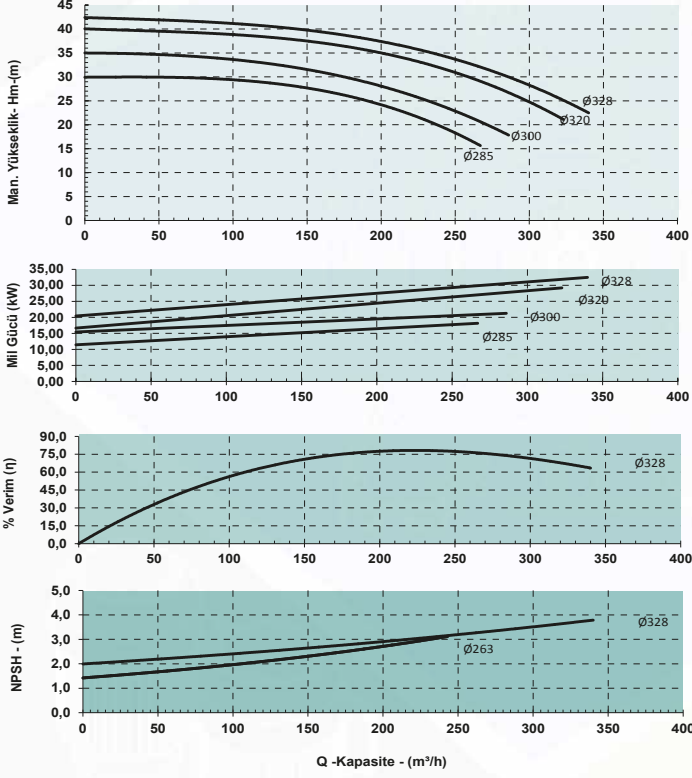


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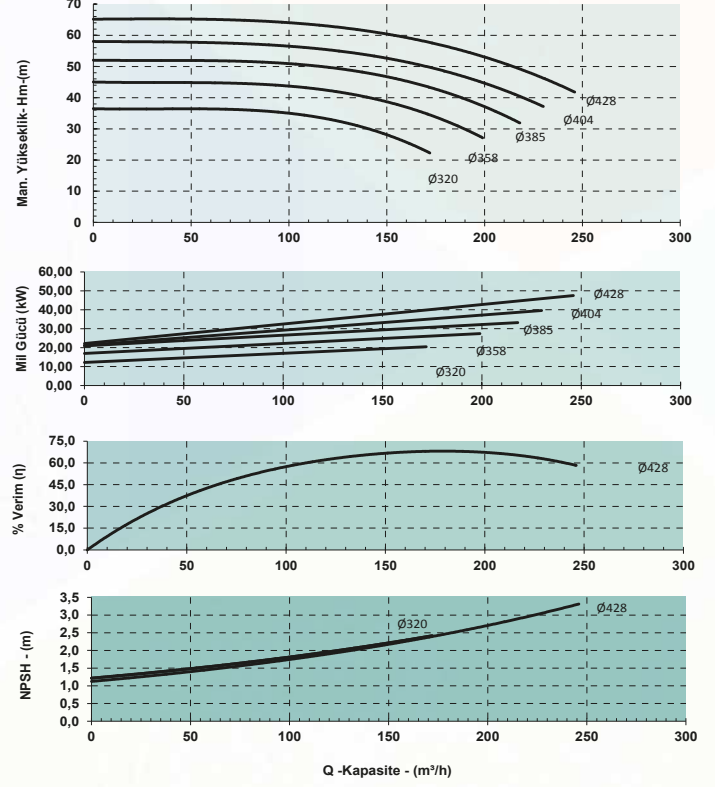


PERFORMANS EĞRİLERİ 1450 d/d

TNM 100-315 50 Hz - 1450 d/d

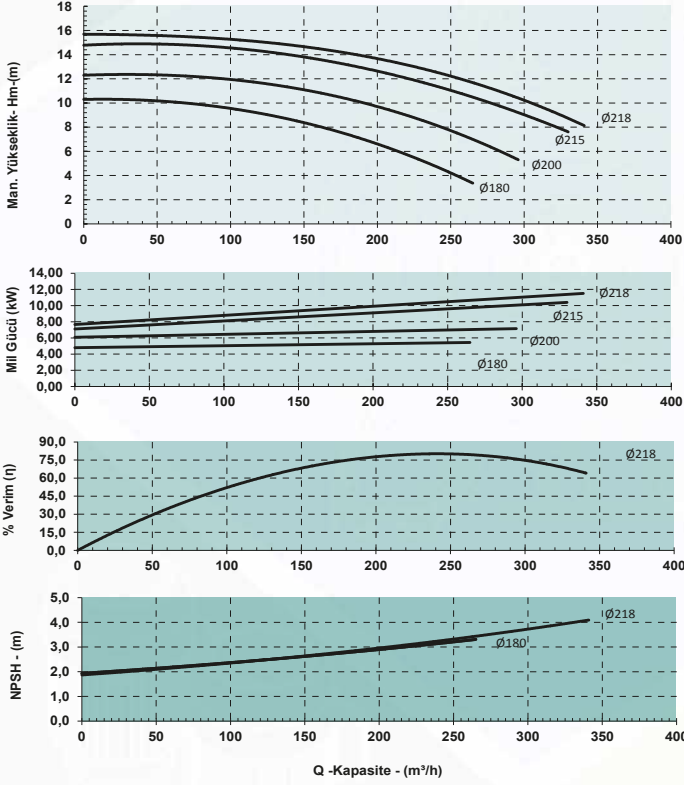


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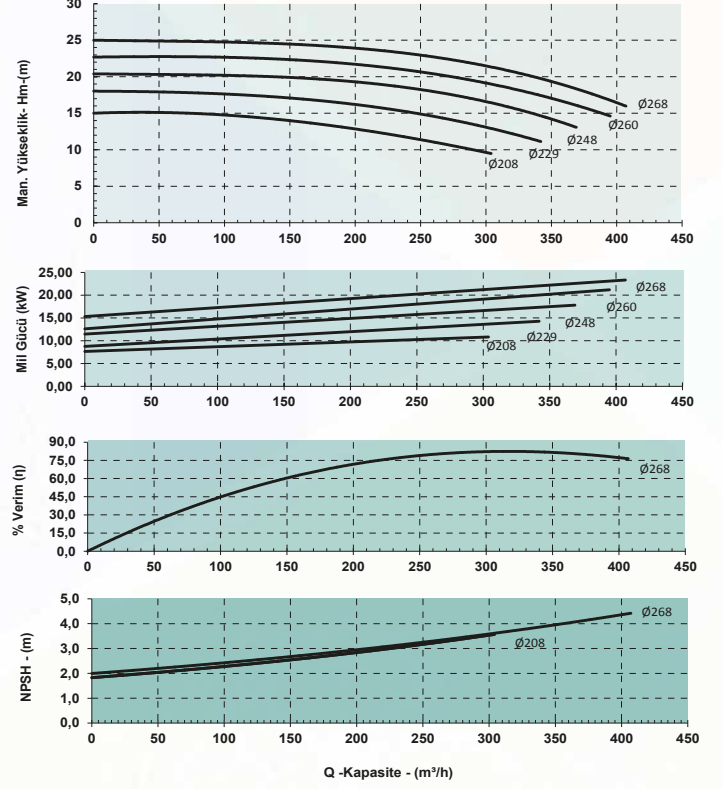


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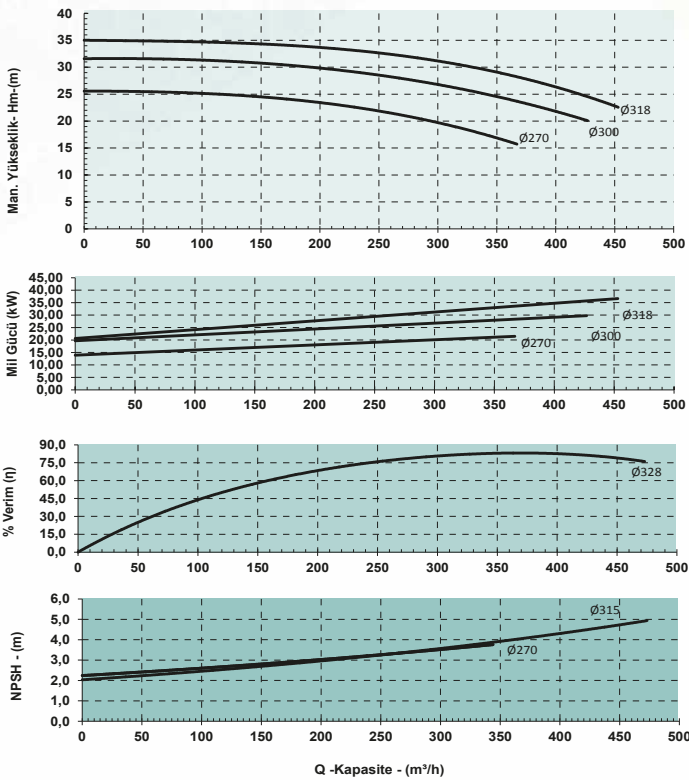
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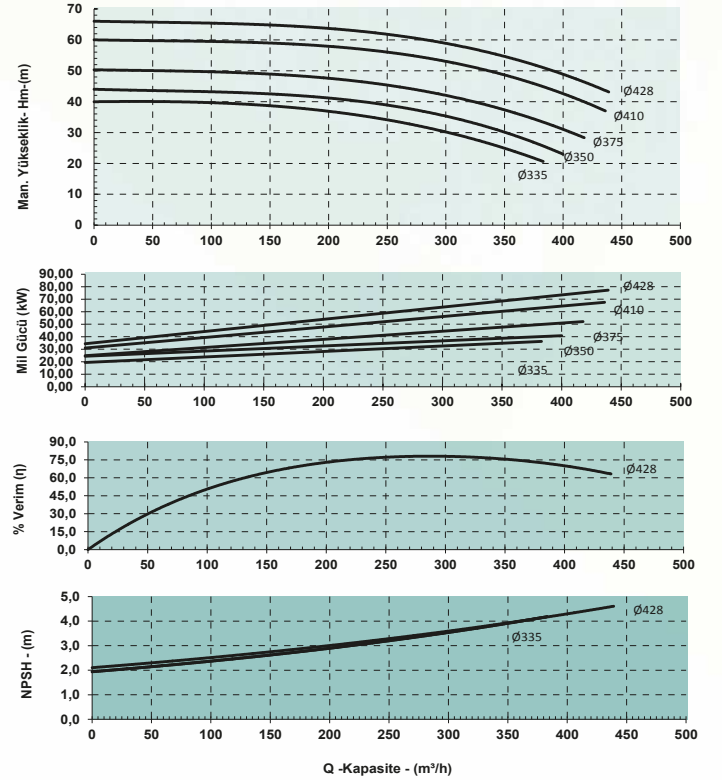
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TNM 125-315 50 Hz - 1450 d/d



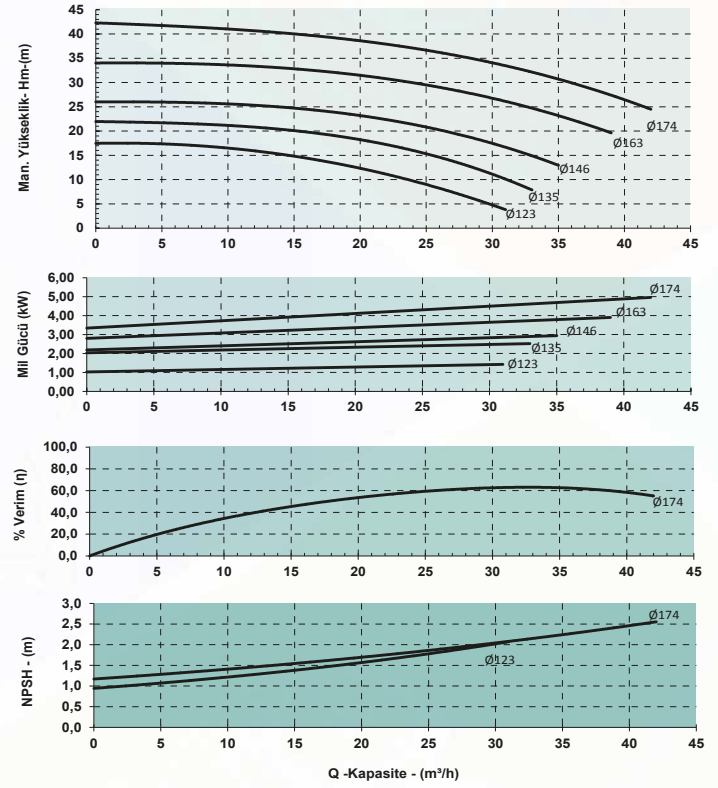
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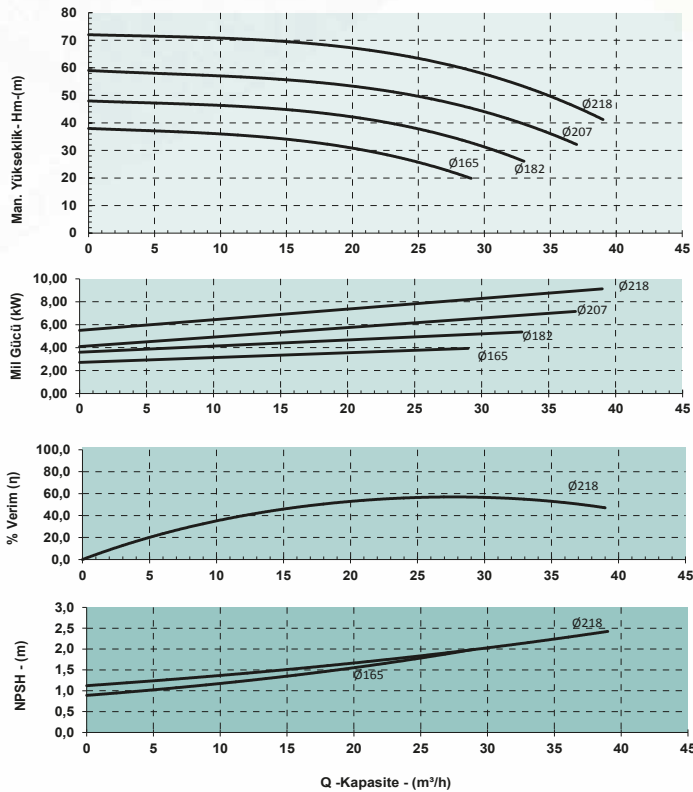
PERFORMANS EĞRİLERİ 2900 d/d



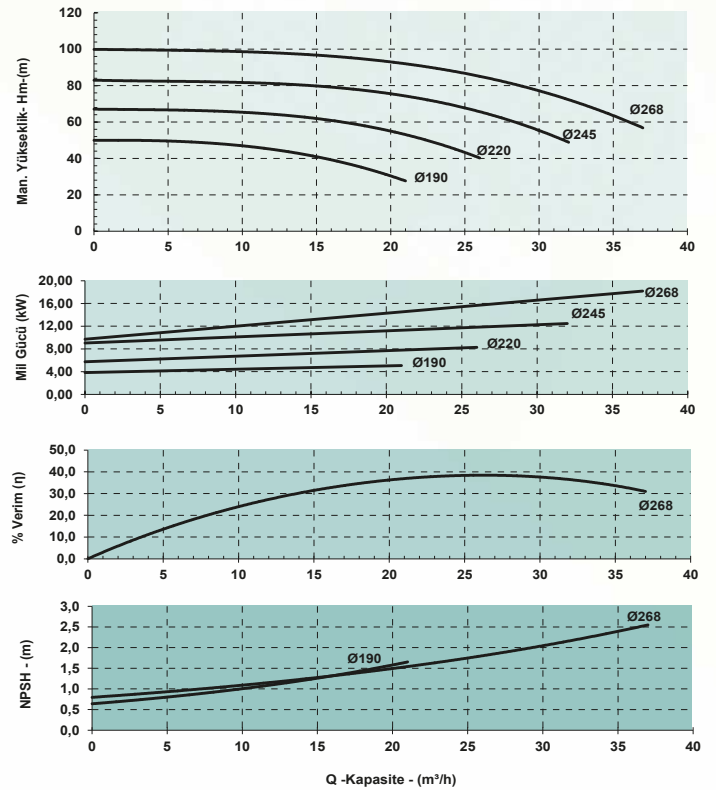
TNM 32-160 50 Hz - 2900 d/d



TNM 32-200 50 Hz - 2900 d/d



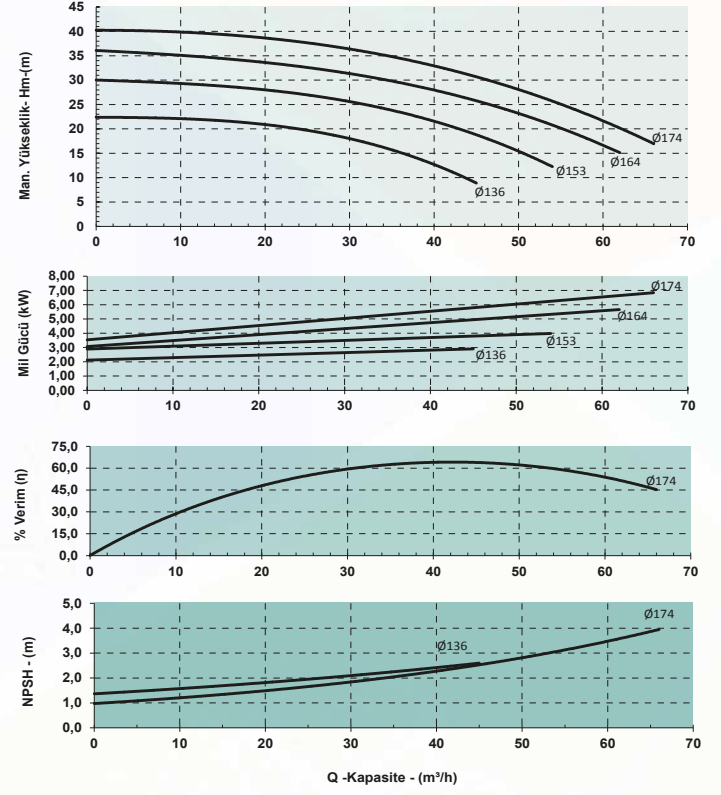
TNM 32-250 50 Hz - 2900 d/d



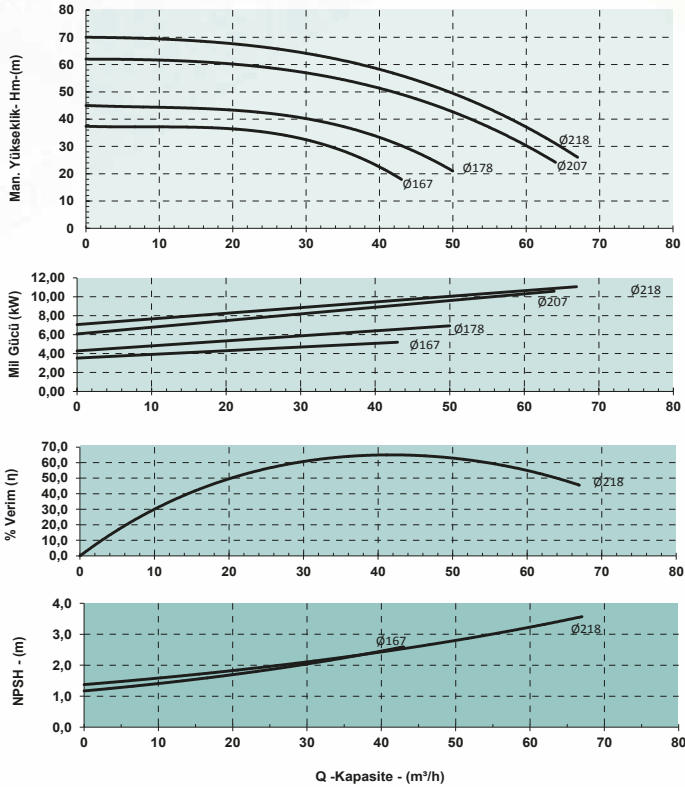
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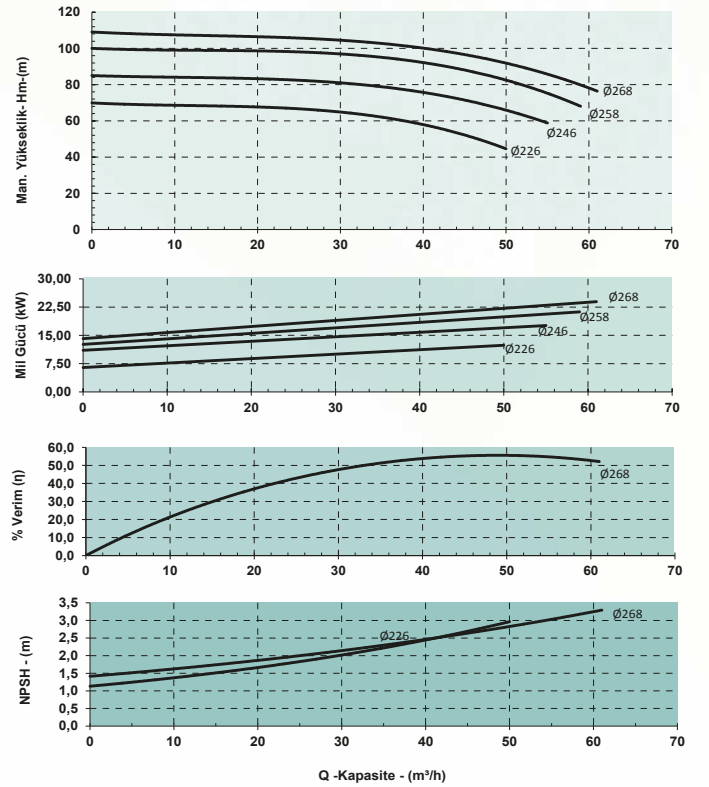
TNM 40-160 50 Hz - 2900 d/d



TNM 40-200 50 Hz - 2900 d/d



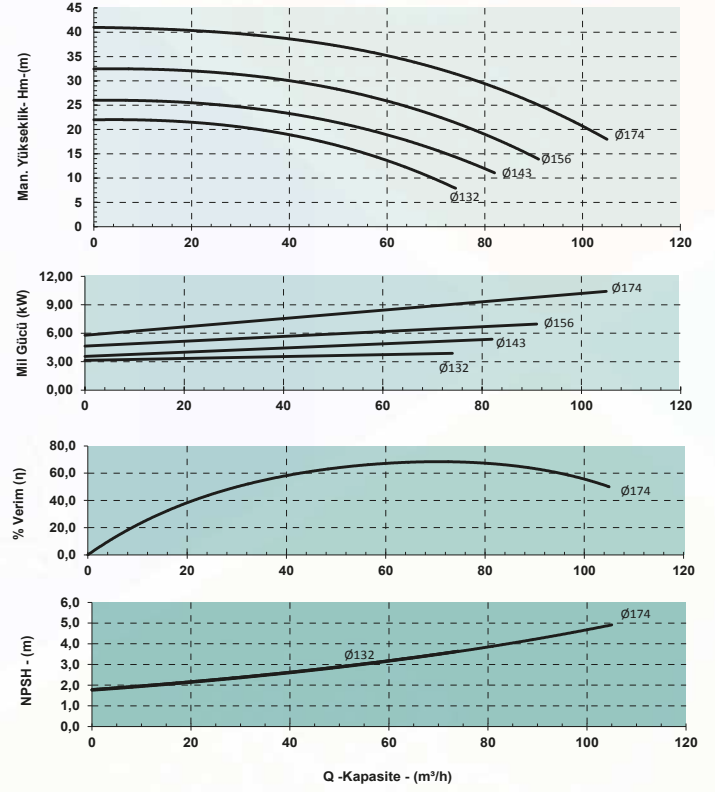
TNM 40-250 50 Hz - 2900 d/d



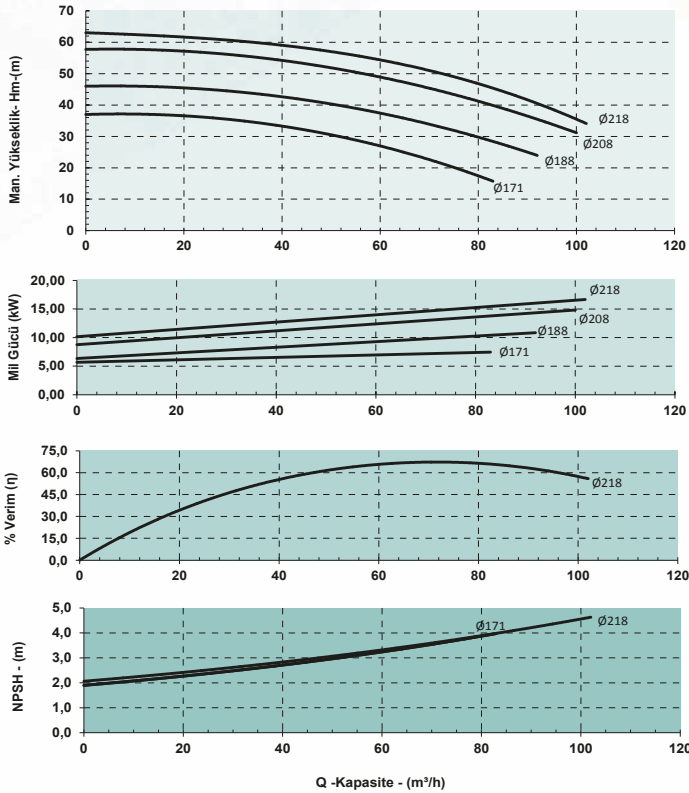
PERFORMANS EĞRİLERİ 2900 d/d



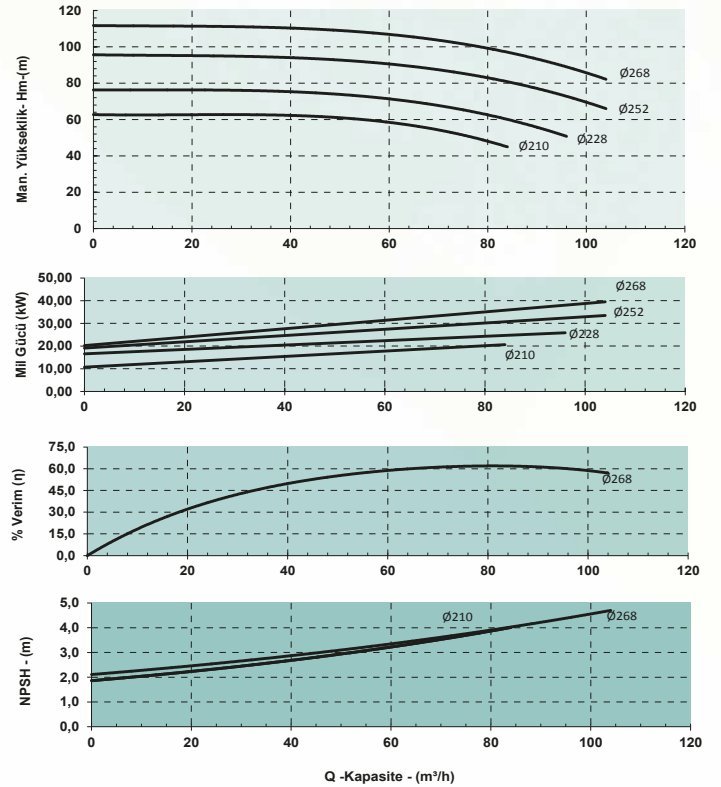
TNM 50-160 50 Hz - 2900 d/d



TNM 50-200 50 Hz - 2900 d/d



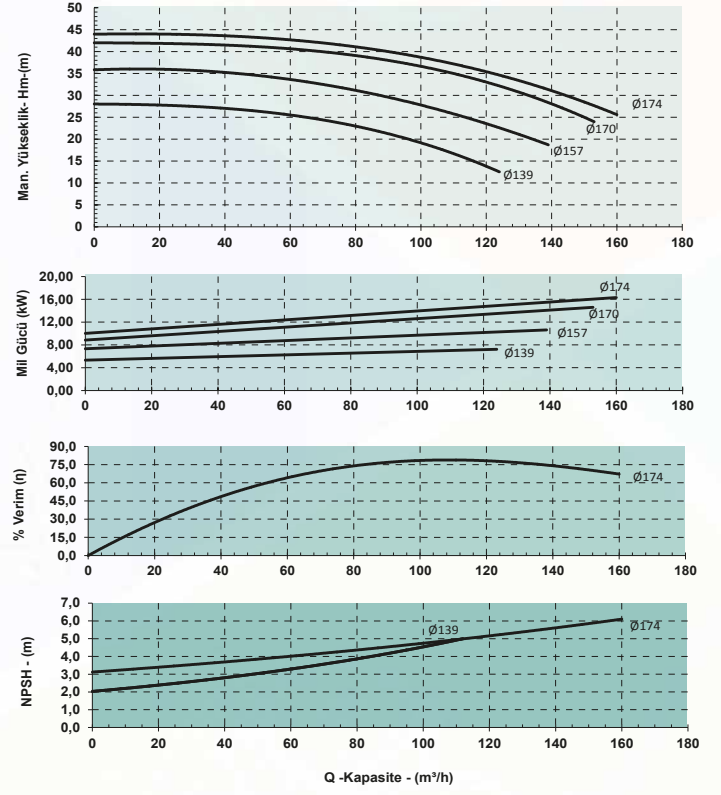
TNM 50-250 50 Hz - 2900 d/d



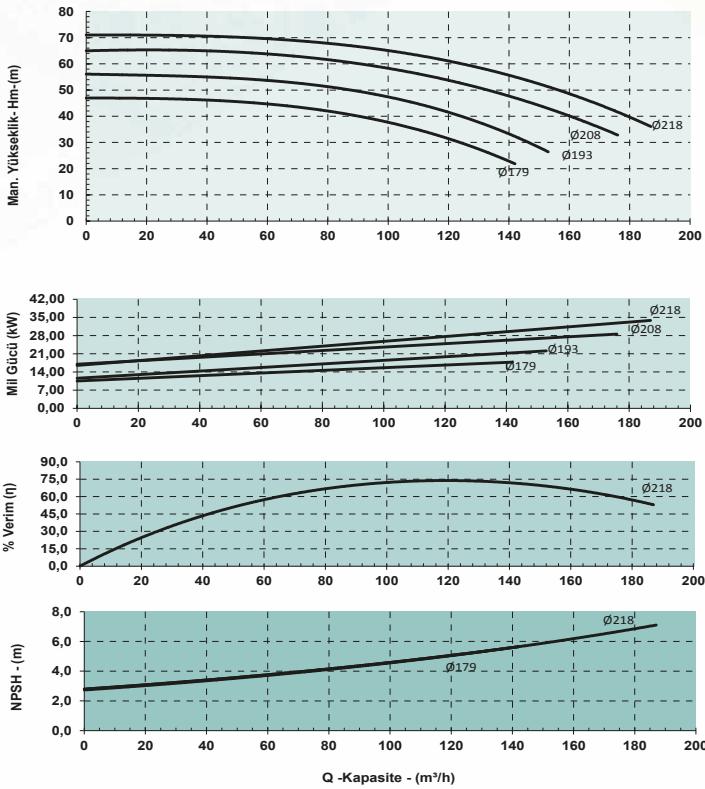
PERFORMANS EĞRİLERİ 2900 d/d



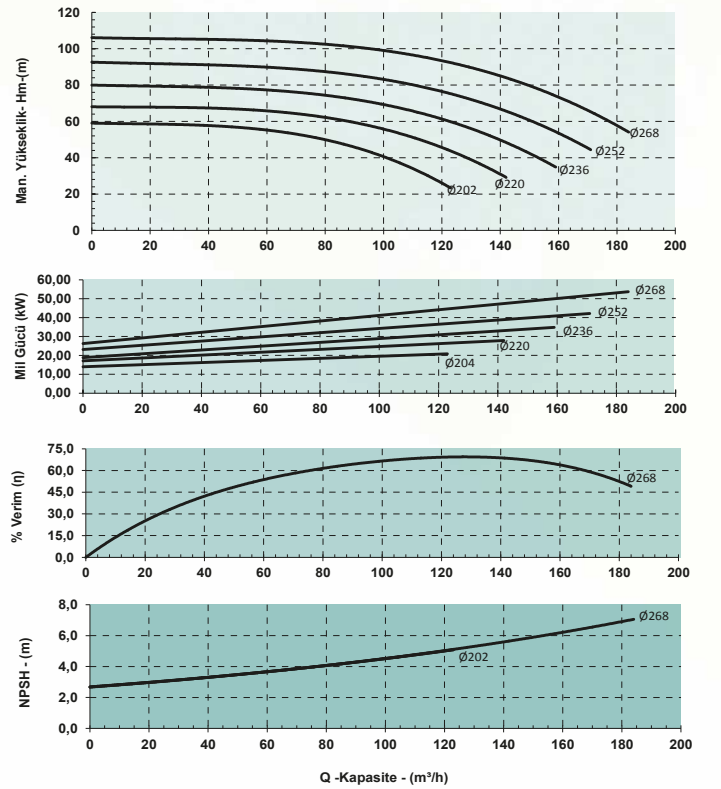
TNM 65-160 50 Hz - 2900 d/d



TNM 65-200 50 Hz - 2900 d/d



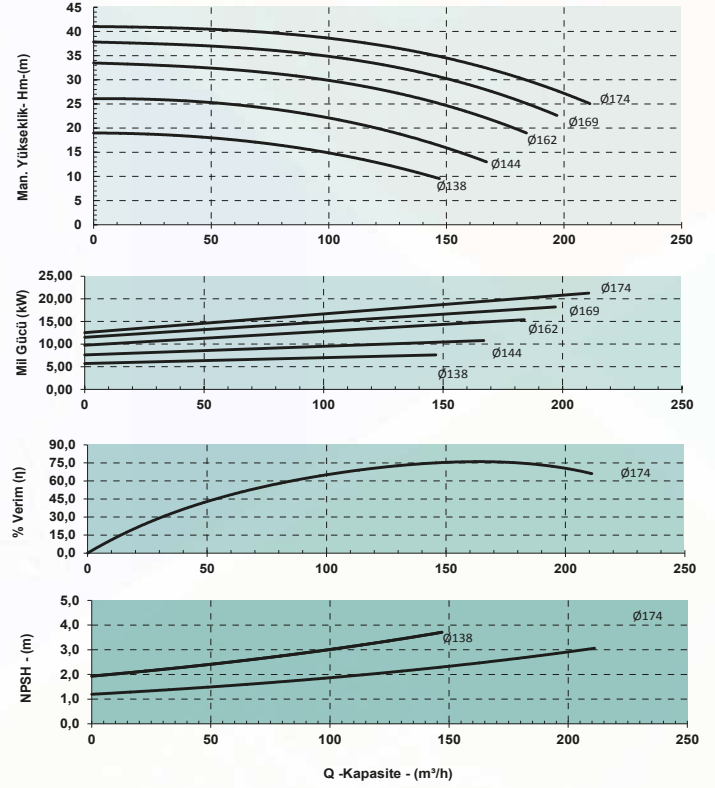
TNM 65-250 50 Hz - 2900 d/d



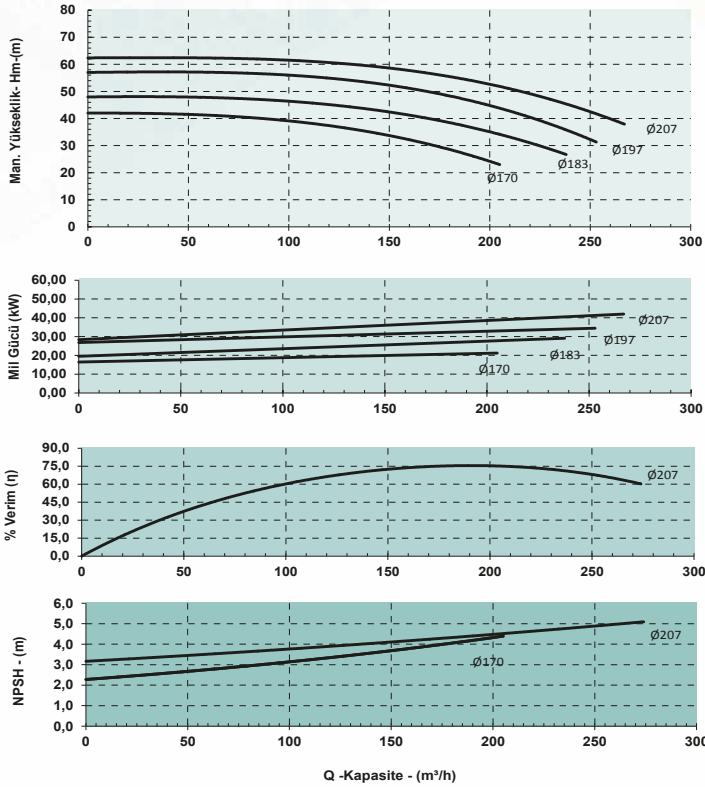
PERFORMANS EĞRİLERİ 2900 d/d



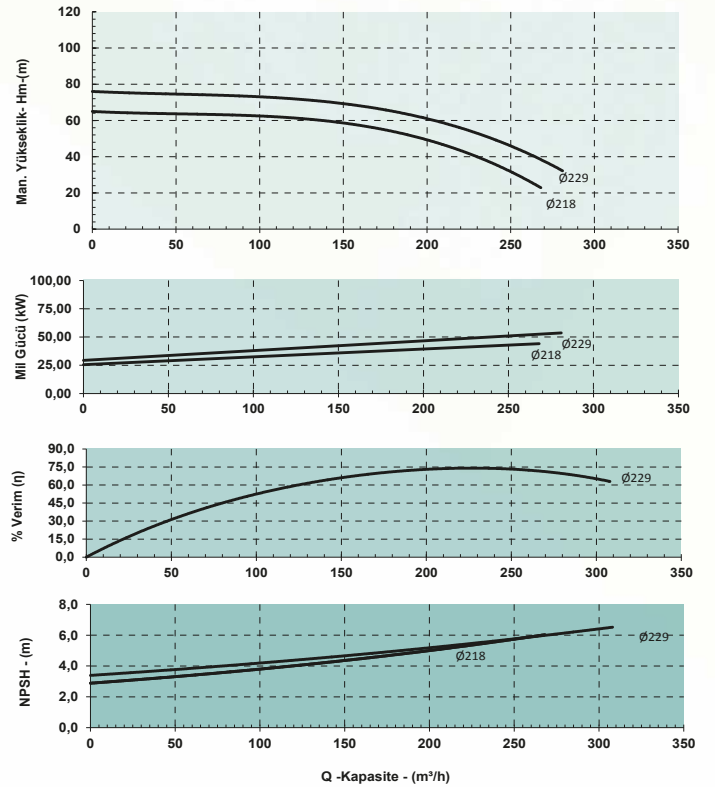
TNM 80-160 50 Hz - 2900 d/d



TNM 80-200 50 Hz - 2900 d/d



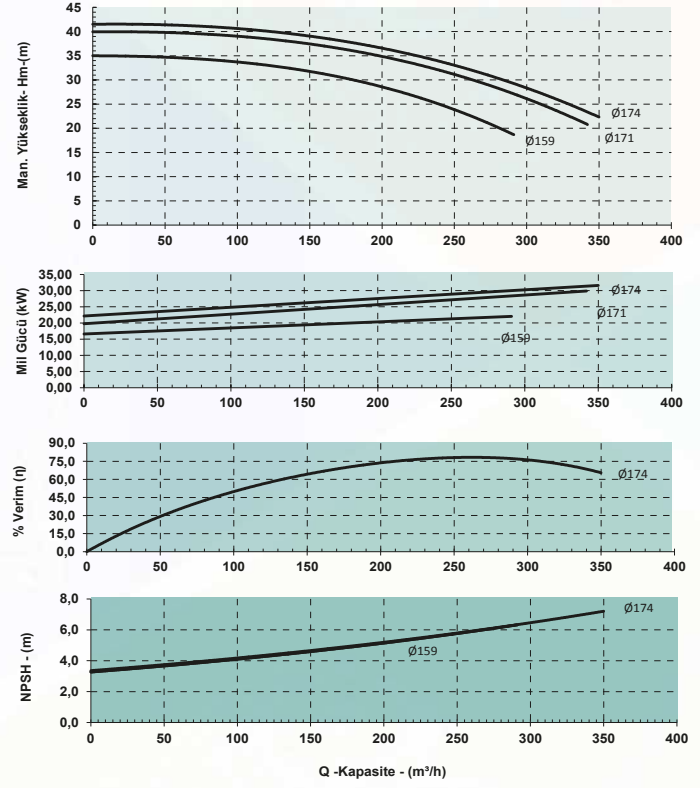
TNM 80-250 50 Hz - 2900 d/d



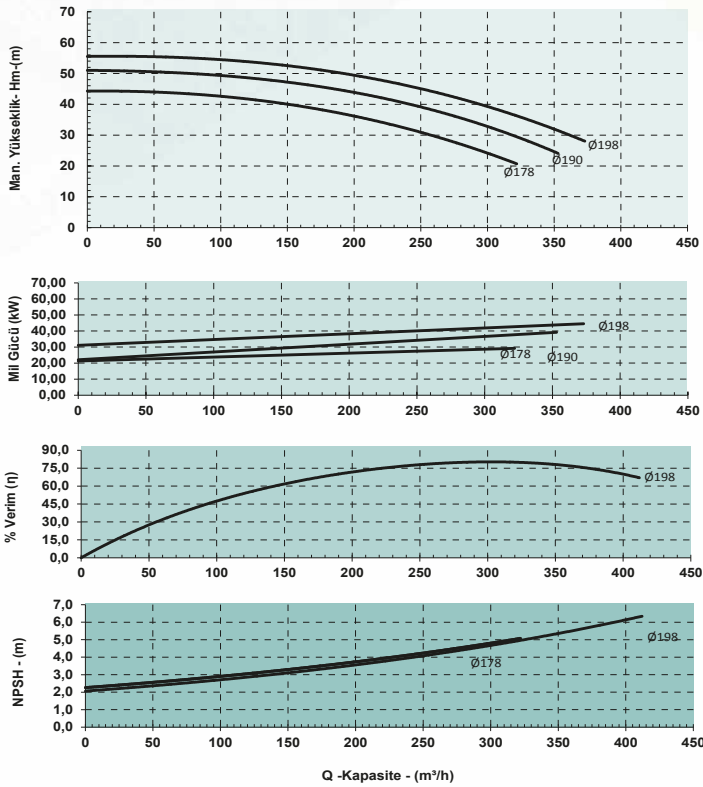
PERFORMANS EĞRİLERİ 2900 d/d



TNM 100-160 50 Hz - 2900 d/d



TNM 100-200 50 Hz - 2900 d/d



TNM 100-250 50 Hz - 2900 d/d

