

A4 & A6 Pumpen mit geschlossenen Ein-Kanal-Laufrädern

Pumpen mit geschlossenen Ein-Kanal-Laufrädern werden zur Förderung von reinen Flüssigkeiten und Abwasser eingesetzt. Anwendungsbereich: Kläranlagen, Abwasserkanäle, Industriekanalisation, Spitaleinrichtungen und öffentliche Installationen.

Technische Daten

- Fördermenge: bis 504 m³/h
- Förderhöhe: bis 58 m
- Stromversorgung: Drehstrom 50 Hz
- Leistung: 10 kW bis 50 kW
- Druckstutzen: Horizontal DN150

Anwendungen

- Schmutzwasser, Kläranlagen, Hebeanlagen
- Sanitärinstallationen: Druckerhöhungsanlagen, Kühlanlagen, Heizungsanlagen, Eisanlagen
- allg. Industrietechnik, Apparatebau, industrielle Waschanlagen

**A4
A6**

SUBMERSIBLE PUMPS



Hauptsitz

Gloor Pumpenbau AG
Thunstrasse 25
CH-3113 Rubigen
Tel. +41 (0)58 255 43 34
info@gloor-pumpen.ch
www.gloor-pumpen.ch

Filiale Mittelland

Gloor Pumpenbau AG
Industriestrasse 25
CH-5036 Oberentfelden



Filiale Suisse Romande

Gloor Pumpenbau SA
Rue du Collège 3 | Case postale
CH-1410 Thierrens
Tél. +41 (0)58 255 43 34
info@gloor-pompes.ch
www.gloor-pompes.ch



Elettropompe sommergibili con girante monocanale chiuso

Submersible electropumps with close channel impeller

Potenze / Power:	10÷60 kW
Mandate / Delivery:	DN150 - 200



Impieghi

La serie A4 - A6 poli trova impiego nel pompaggio e nel drenaggio di liquidi chiari e fognari. L'ampia gamma e ottime efficienze idrauliche rendono la serie particolarmente adatta al essere utilizzata su: depuratori, fognature, zootecnia e canalizzazioni industriali, quali: aeroporti, metropolitane, ospedali, hotel.

Caratteristiche

Tutti i componenti principali sono realizzati in Ghisa GG25. Due tenute meccaniche separate (lato motore a bagno olio, lato girante a contatto con il liquido) e componentistica di prima qualità, ne garantiscono il perfetto funzionamento.

Motori

- Motori asincroni 4 - 6 poli con rotore a gabbia di scoiattolo
- Protezione termica T1 e T2 incorporato nel motore da collegare ad un apposito quadro di comando
- Isolamento statore classe F (155°C)
- Grado protezione IP 68

Raffreddamento

Raffreddamento effettuato dal liquido nel quale la pompa è immersa.

Limiti di impiego

- Temperatura massima del liquido: 40°C con unità completamente sommersa
- Disponibili versioni speciali (escluso ATEX) fino alla temperatura liquido di 60°C con unità completamente sommersa, non a servizio continuo (S1)
- Massima profondità di immersione: 20 mt
- Valori pH ammessi: 6-10
- Caratteristiche idrauliche valide per liquidi di densità <1,1 kg/dm³
- Tensioni ammesse: 400V / 690V ±5%
- Frequenza ammessa: 50Hz ± 2%

Application

The A4 - A6 poles Series is used to pump clear liquids and sewage. The wide range and high hydraulic efficiency renders this series particularly suited to water treatment plants, sewers, farming and industrial plants including in airports, underground public transport, hospitals and hotels.

Characteristic

All main components are made of grey cast iron GG25. Two individual mechanical seals (motor side in the oil chamber, impeller side in contact with the liquid) and high quality parts, ensure the perfect functioning and reliability of the product.

Motor range

- Squirrel cage motor 4 - 6 poles
- Thermal protection T1 and T2 embedded in the motor winding (to be wired to the three pole contactor in the control panel)
- Class F insulation (155°C)
- IP 68 protection

Motor cooling

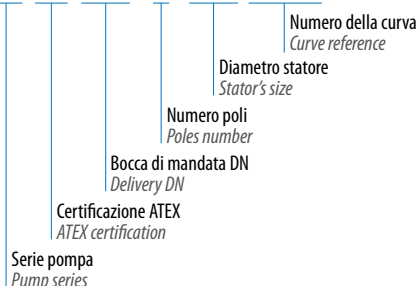
The cooling of the motor is ensured by the liquid where the pump is submerged.

Limits of use

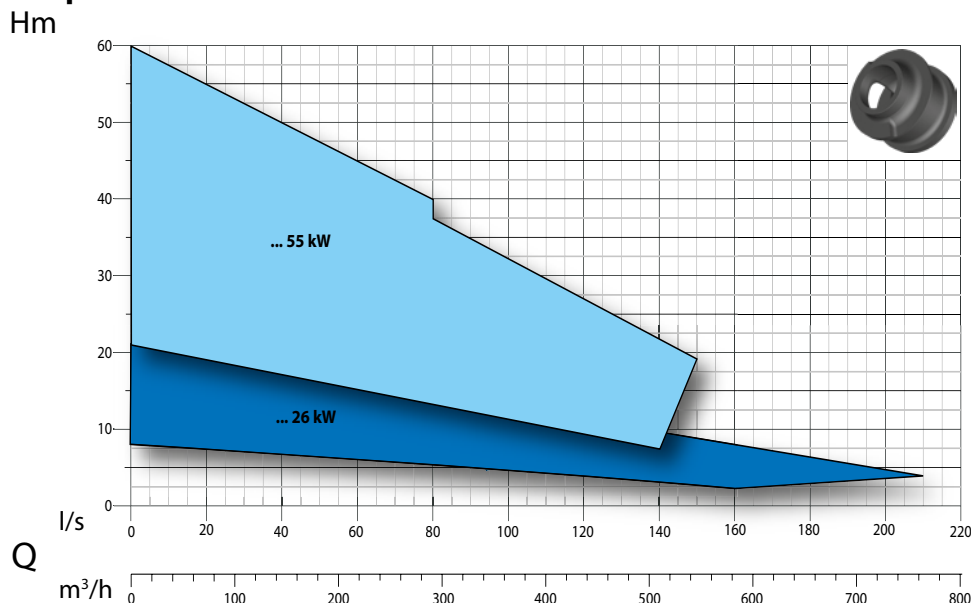
- Max. permissible liquid temperature: 40°C with pump fully submerged
- On request, special version (excluded ATEX) to withstand liquid temperature up to 60°C with pump fully submerged, no S1 service
- Maximum depth of immersion: 20 mt.
- Permissible pH value: 6-10
- Hydraulic features suitable for liquids with density <1,1 kg/dm³
- Allowed voltage: 400V - 690V ±5%
- Allowed frequency: 50Hz ±2%

Designazione / Designation

AT-EX 150 / 4 / 240 C.275



Campo di Prestazione / Performance Overview



Identificazione Curve

Curves Identification

- DN150
- DN200

Normative

Norms

Curve secondo ISO 9906:2012 3B2
According to ISO 9906:2012 3B2

Distinta dei componenti e materiali List of components and materials

A4-A6

Golfare - Hook

Acciaio inox AISI 416 - Stainless steel AISI 416

Porta cuscinetto superiore - Upper bearing support

Ghisa GG25 - Cast iron GG25

Cassa motore - Motor casing

Ghisa GG25 - Cast Iron GG25

Cuscinetto superiore - Upper bearing

Albero motore - Motor shaft

Acciaio inox AISI 420 - stainless steel 420

Motore elettrico - Electric motor

Rotore - Rotor

Cuscinetto inferiore - Lower bearing

Porta motore - Motor holder

Ghisa GG25 - Cast iron GG25

Tenuta meccanica - Mechanical seal

Carburo di silicio - Silicon/Carbide (SiC/SiC/Viton)

Disco di chiusura - Closing plate

Ghisa GG25 - Cast iron GG25

Tenuta meccanica - Mechanical seal

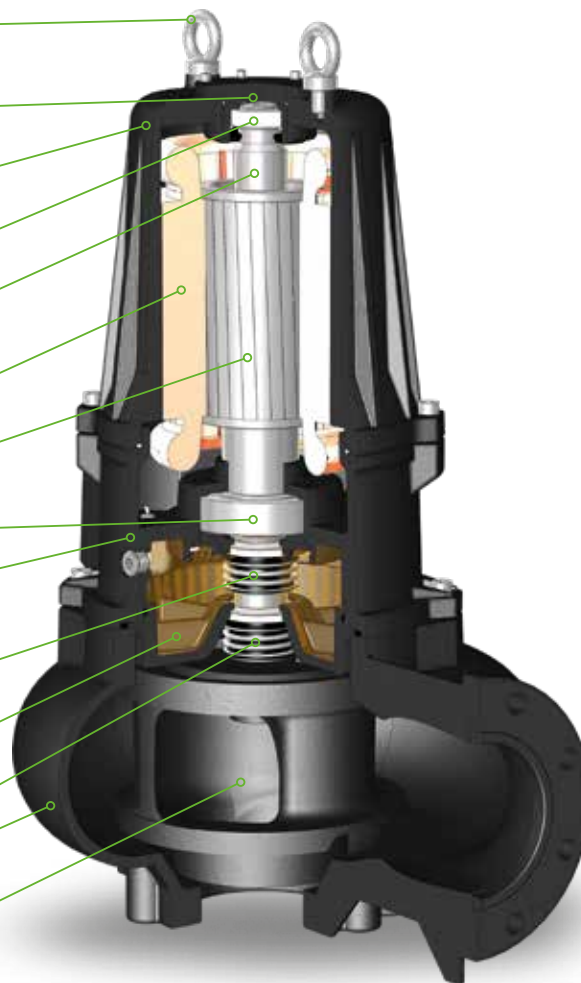
Carburo di silicio - Silicon/Carbide (SiC/SiC/Viton)

Corpo pompa - Body pump

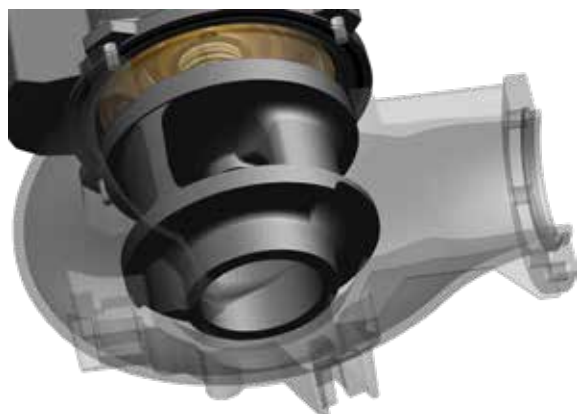
Ghisa GG25 - Cast iron GG25

Girante - Impeller

Ghisa GG25 - Cast iron GG25



Tecnologie e Soluzioni Technology and Features



Giranti

La serie monta giranti Monocanali Chiusi ad alte prestazioni. Gli ampi passaggi permettono il passaggio di corpi solidi fino a 130mm

Impellers

This range of pump features close double channel impeller with excellent performance and free passage of solids up to 130 mm.



Pompe antideflagranti / Explosion proof pumps

CE 0477



Ex db IIB T4 Gb
Ex h IIB T4 Gb
0° ≤ Ta ≤ 40°

EPT 17 ATEX 2703 X

I presenti certificati garantiscono la sicurezza contro le esplosioni, in assoluta conformità con le stringenti direttive europee ed internazionali ATEX/IECEx.

These certificates grant for the safe use of the product in hazardous area in line with the stringent European and International standards ATEX/IECEx.



Sensore d'umidità

Sensore conforme alle norme sulla sicurezza integrata contro le esplosioni EN 60079-0, EN 60079-1 tramite barriera di protezione. Di serie su tutta la gamma (non applicabile con IECEx).

Seal leak detector

The seal leak detector is certified according to the norm EN 60079-0, EN 60079-1 (through safety barrier) and fitted standard on all series (not applicable with IECEx).



Cuscinetti

La serie monta il cuscinetto superiore a rulli cilindrici, atto ad assorbire e resistere ad eventuali sollecitazioni trasmesse dall'albero motore.

Bearings

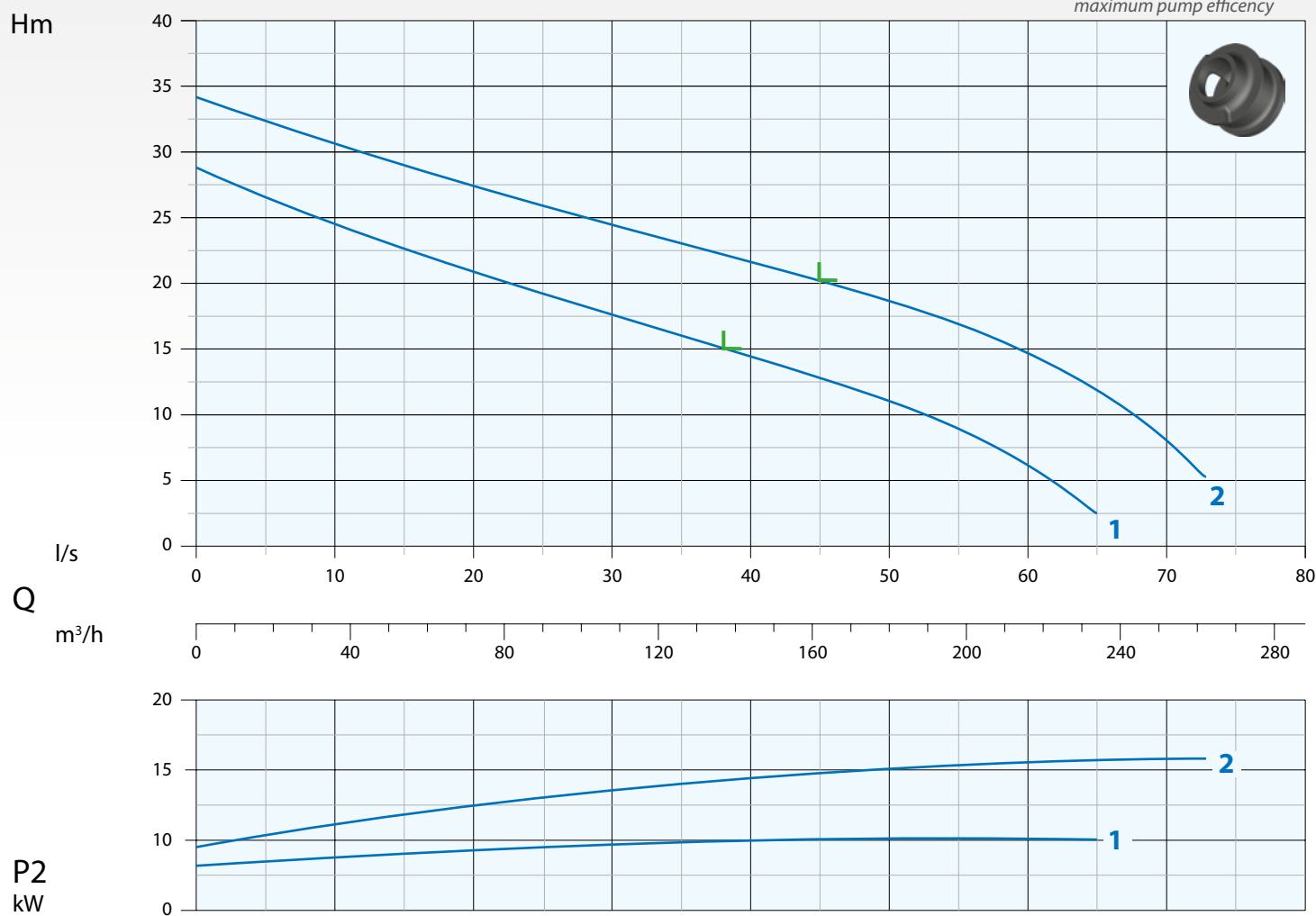
The series is fitted with a cylindrical roller bearing (upper bearing) to absorb the thrust and vibration generated by the pump shaft.

Mandata Orizzontale DN150 PN16 - RPM 1450 1/min 4 poli*Horizontal Outlet DN150 PN16 - RPM 1450 1/min 4 poles*

Imagine a solo scopo illustrativo
Picture for illustration purposes only

**Curva di Prestazione***Performance Curve*

L = rendimento massimo pompa
maximum pump efficiency



N°	Tipo Type	l/s	5	10	15	20	25	30	40	50	60	70
		l/m	300	600	900	1200	1500	1800	2400	3000	3600	4200
		m³/h	18	36	54	72	90	108	144	180	216	252
1	AT 150/4/200 C.260	mt	26,5	24	22,5	21	19	17,5	14,5	11	6	
2	AT 150/4/200 C.263	mt	32,5	31	28,5	27,5	26,5	24	21,5	18,5	15	7,5

N°	Tipo Type	EX	Mandata Delivery	Passaggio Free Passage	kW		HP	R.P.M. 1/min	A	Hz
					P1	P2			3 Phase - 400V	
1	AT 150/4/200 C.260	•	DN150 PN16	80 mm	11,7	10	13,5	1450	21,3	50
2	AT 150/4/200 C.263	•			18,7	16	22,5		33,2	

• Pompa antideflagrante disponibile con certificazioni:
Available explosion proof pump with certifications:

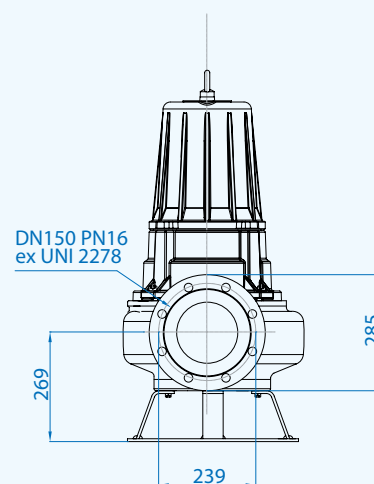
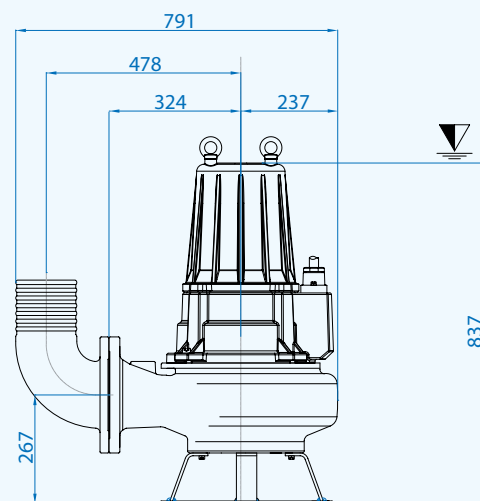
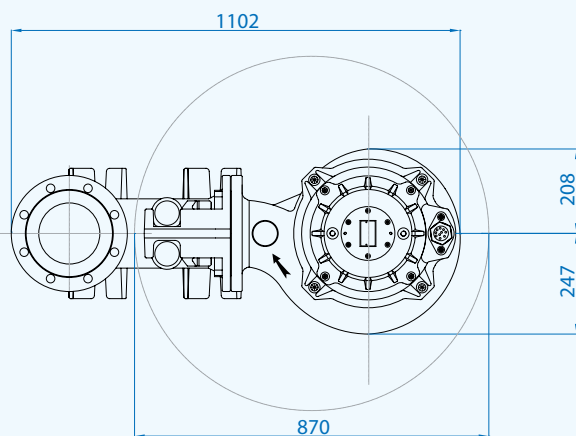
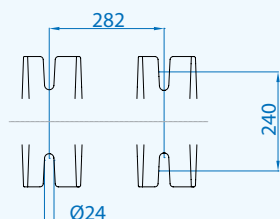
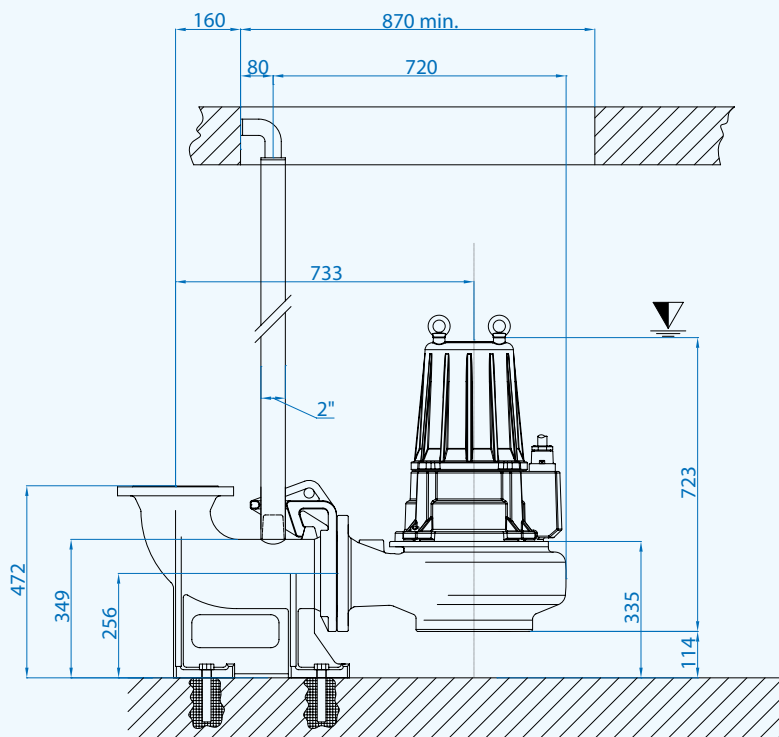
CE 0477
EPT 17 ATEX 2703 X

Ex II 2G

Ex db IIB T4 Gb
Ex h IIB T4 Gb
0° ≤ Ta ≤ 40°

A4

▼ Sommergenza minima
Minimum submersion



Quote in mm
Dimensions in mm

Cavi / Cables

Versione Version	Fasi Phases	Cavo Cable	Sezione cavo mm ² Cable cross section mm ²	mt
Standard	3 ~ 400V	H07RN8F	10x2,5 Ø 23*	10
ATEX	Y-Δ	NSSHÖU-J	7x2,5+3x0,50 Ø 20*	10

* Terminali liberi - Free terminals

Dimensioni imballo / Packaging dimension

Tipo - Type	X mm	Y mm	Z mm	Kg
AT 150/4/200 C.260	570	950	670	230
AT 150/4/200 C.263				256



Accessori - Optional



Piede di accoppiamento rapido Tipo: B7
Automatic coupling foot
Type: B7



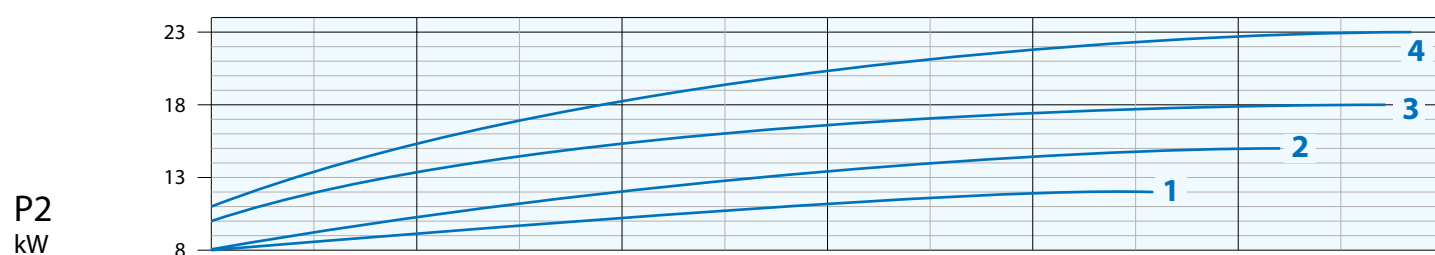
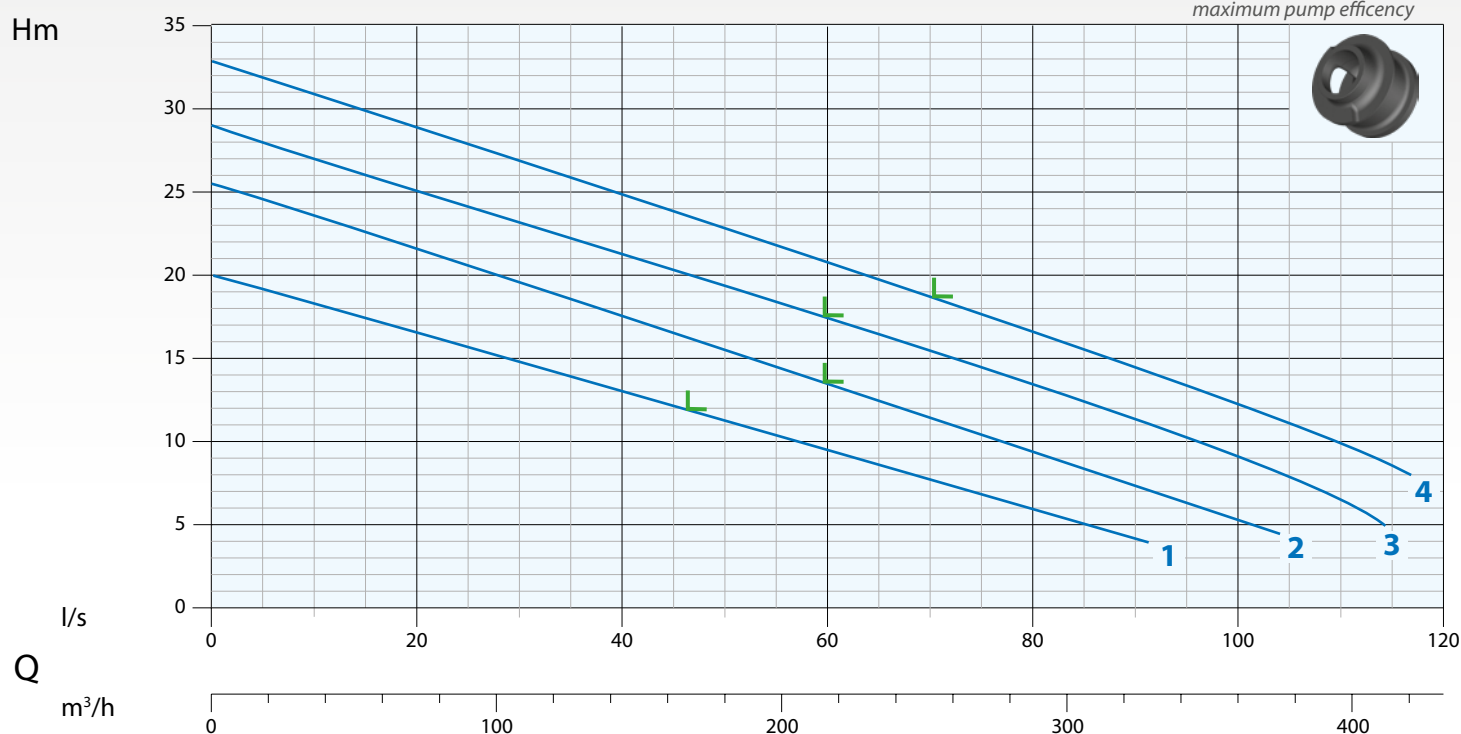
Curva flangiata portagomma N4
Base di sostegno P7
Flanged hose connection N4
Foot support P7

Mandata Orizzontale DN150 PN16 - RPM 1450 1/min 4 poli
Horizontal Outlet DN150 PN16 - RPM 1450 1/min 4 poles

Immagine a solo scopo illustrativo
Picture for illustration purposes only


Curva di Prestazione
Performance Curve

L = rendimento massimo pompa
maximum pump efficiency



N°	Tipo Type	I/s	10	20	30	40	50	60	70	80	90	110
		l/m	600	1200	1800	2400	3000	3600	4200	4800	5400	6600
		m³/h	36	72	108	144	180	216	252	288	324	396
1	AT 150/4/200 C.264	mt	18	16,5	15	13	11	9,5	7,5	6	4	
2	AT 150/4/200 C.265		23,5	21,5	19,5	17,5	15,5	13,5	11,5	9,5	7	
3	AT 150/4/240 C.275		27	25	23	21	19,5	17,5	15,5	13,5	11	6,5
4	AT 150/4/240 C.280		31	29	27	25	23	21	18,5	16,5	14,5	10

N°	Tipo Type	EX	Mandata Delivery	Passaggio Free Passage	kW		HP	R.P.M. 1/min	A 3 Phase - 400V	Hz
					P1	P2				
1	AT 150/4/200 C.264	•	DN150 PN16	110 mm	12,8	11	16	1450	23,4	50
2	AT 150/4/200 C.265	•			17,6	15	22		31,8	
3	AT 150/4/240 C.275	•		120 mm	20,3	18	24		39,7	
4	AT 150/4/240 C.280	•			25,9	23	31		47,7	

• Pompa antideflagrante disponibile con certificazioni:
Available explosion proof pump with certifications:

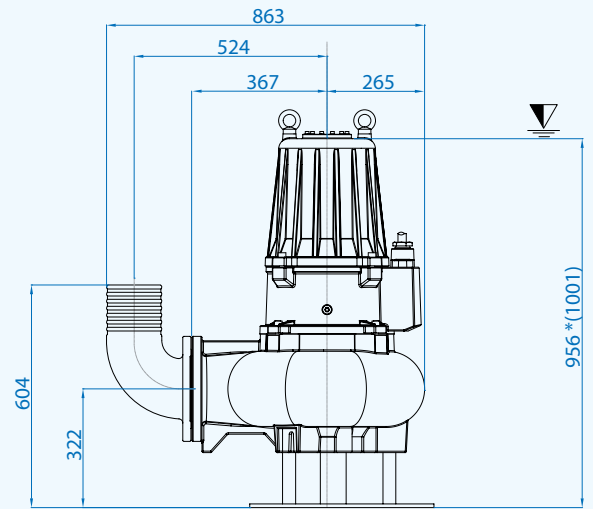
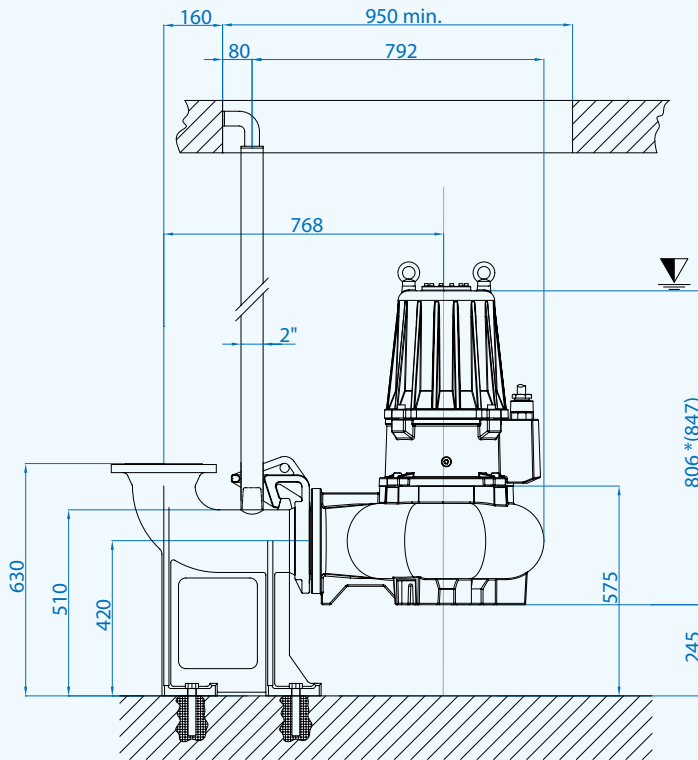
CE 0477
EPT 17 ATEX 2703 X

Ex II 2G

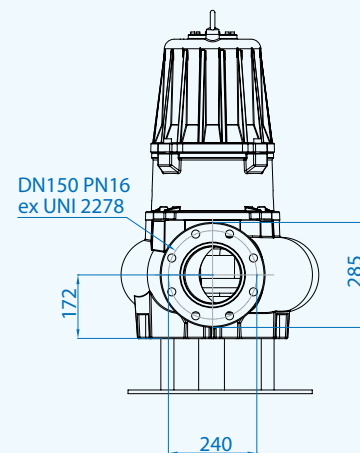
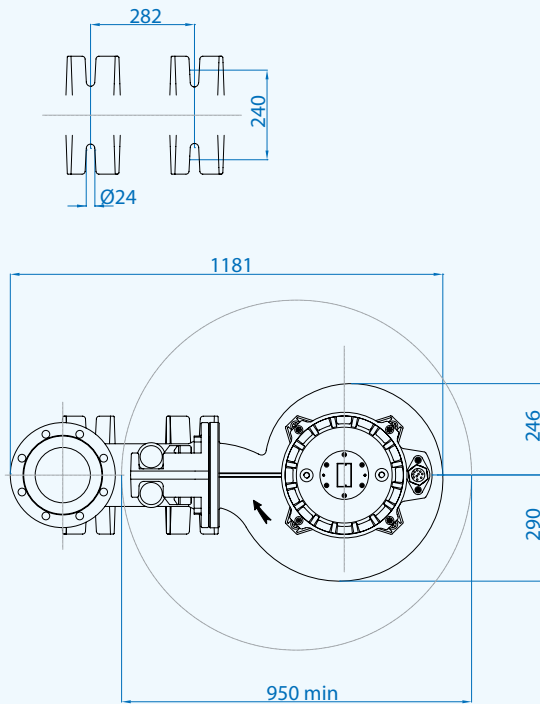
Ex db IIB T4 Gb
Ex h IIB T4 Gb
0° ≤ Ta ≤ 40°

A4

▽ Sommergenza minima
Minimum submersion



*(AT 150/4/240 C.275-280)



Quote in mm
Dimensions in mm

Cavi / Cables

Pompe Pumps	Versione Version	Fasi Phases	Cavo Cable	Sezione cavo mm ² Cable cross section mm ²	mt
150/4/200	Standard	3 ~ 400V	H07RN8F	10x2,5 Ø23*	10
	ATEX	Y-Δ	NSSHÖU-J	7x2,5+3x0,50 Ø20*	10
150/4/240	Standard	3 ~ 400V	H07RN8F	7x4+3x1 Ø20,5*	10
	ATEX	Y-Δ	NSSHÖU-J	7x6+3x1 Ø24*	10

* Terminali liberi - Free terminals

Dimensioni imballo / Packaging dimension

Tipo - Type	X mm	Y mm	Z mm	Kg
AT 150/4/200 C.264	570	950	670	260
AT 150/4/200 C.265				276
AT 150/4/240 C.275				308
AT 150/4/240 C.280				328



Accessori - Optional



Piede di accoppiamento
rapido Tipo: B8
Automatic coupling foot
Type: B8



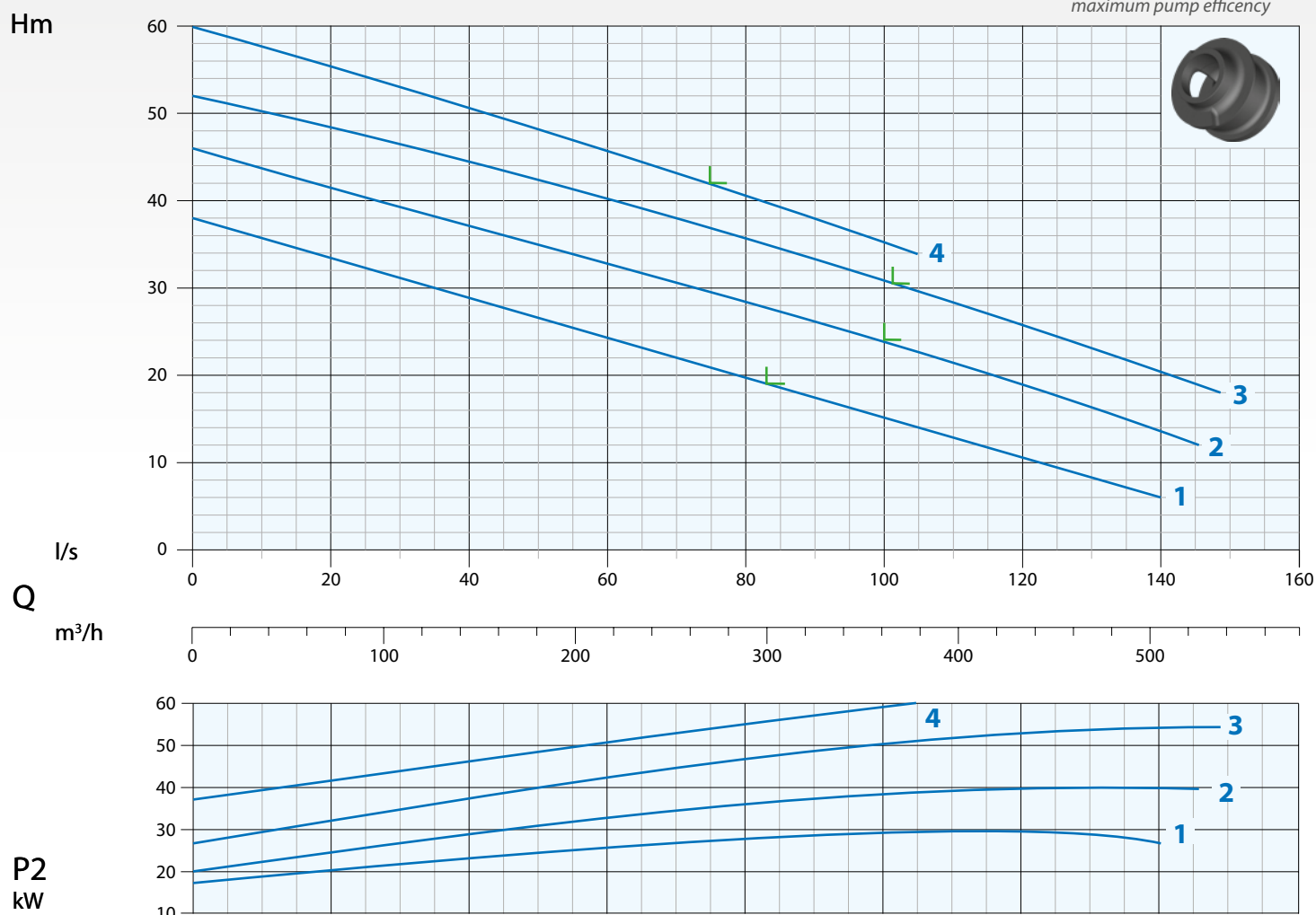
Curva flangiata portagomma N4
Base di sostegno P8
Flanged hose connection N4
Foot support P8

Mandata Orizzontale DN150 PN16 - RPM 1450 1/min 4 poli
Horizontal Outlet DN150 PN16 - RPM 1450 1/min 4 poles

Immagine a solo scopo illustrativo
Picture for illustration purposes only


Curva di Prestazione
Performance Curve

 = rendimento massimo pompa
maximum pump efficiency

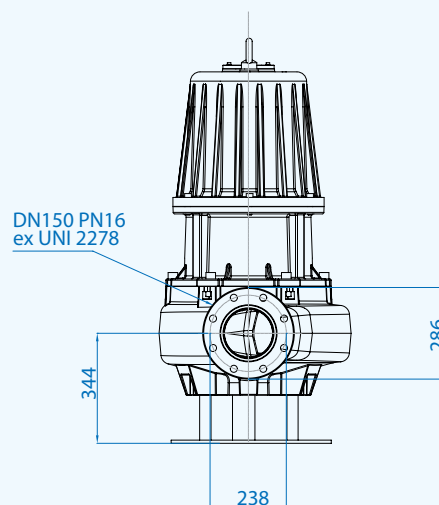
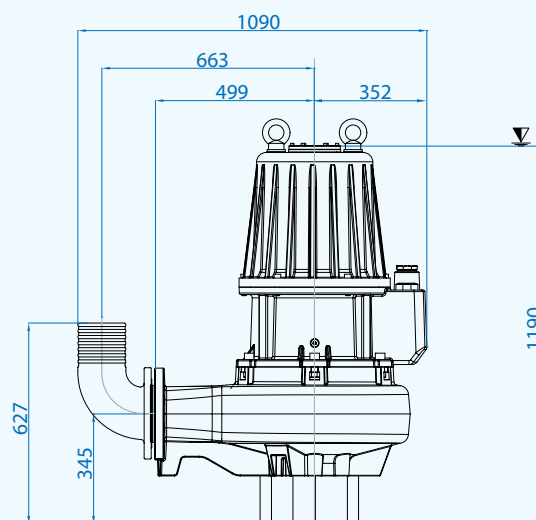
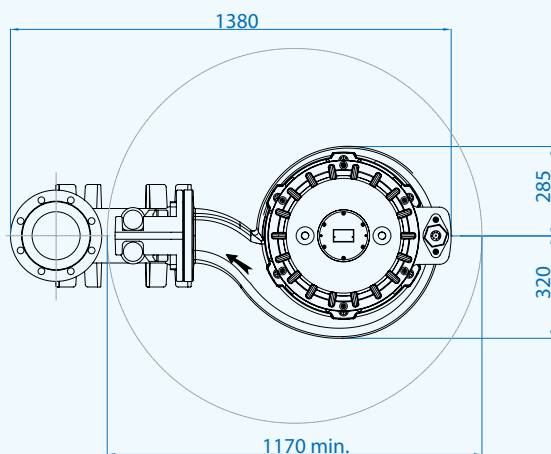
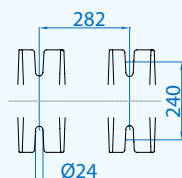
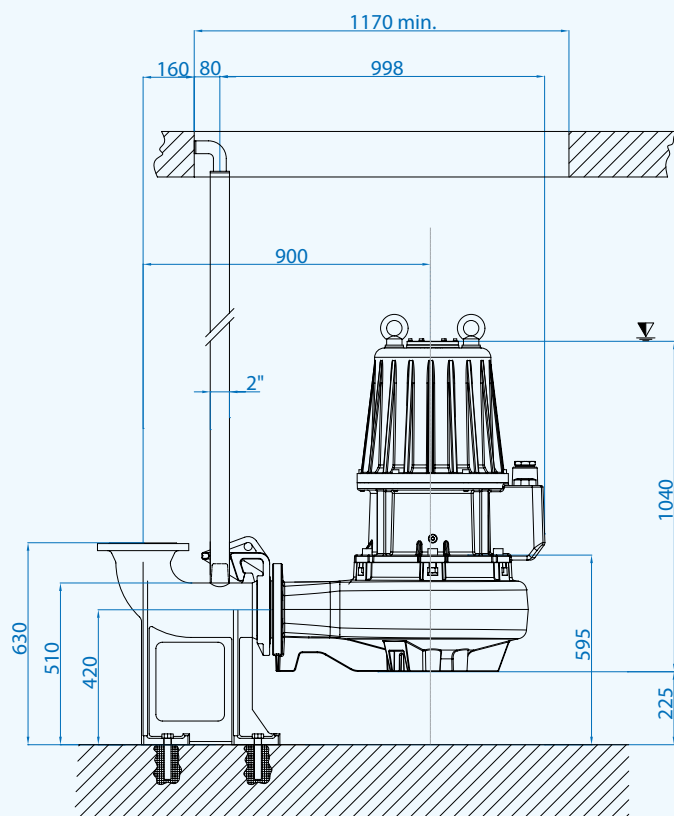


N°	Tipo Type	l/s l/m m³/h	10 600 36	20 1200 72	30 1800 108	40 2400 144	50 3000 180	60 3600 216	80 4800 288	100 6000 360	120 7200 432	140 8400 504
1	AT 150/4/340 C.285	mt	36	34	31	29	26	24	20	15	10	6
2	AT 150/4/340 C.290		44	42	39	37	35	33	28	24	19,5	14
3	AT 150/4/340 C.295		50	48	46	44	42	40	36	31	26	20
4	AT 150/4/340 C.300		58	56	53	51	48	46	41			

N°	Tipo Type	Mandata Delivery	Passaggio Free Passage	kW		HP	R.P.M. 1/min	A 3 Phase - 400V	Hz
1	AT 150/4/340 C.285	DN150 PN16	110 mm	33	30	40	1450	59	50
2	AT 150/4/340 C.290		120 mm	42	40	53,5		73,1	
3	AT 150/4/340 C.295		130 mm	54,6	51	61		98,6	
4	AT 150/4/340 C.300		140 mm	64	60	68		108,6	

A4

▼ Sommergenza minima
Minimum submersion



Quote in mm
Dimensions in mm

Cavi / Cables

Versione Version	Fasi Phases	Cavo Cable	Sezione cavo mm ² Cable cross section mm ²	mt
Standard	3 ~ 400V Y-Δ	H07RN8F	7x10+5x1 Ø29*	10

* Terminali liberi - Free terminals

Dimensioni imballo / Packaging dimension

Tipo - Type	X mm	Y mm	Z mm	Kg
AT 150/4/340 C.285	980	1310	730	550
AT 150/4/340 C.290				585
AT 150/4/340 C.295				600
AT 150/4/340 C.300				600



Accessori - Optional



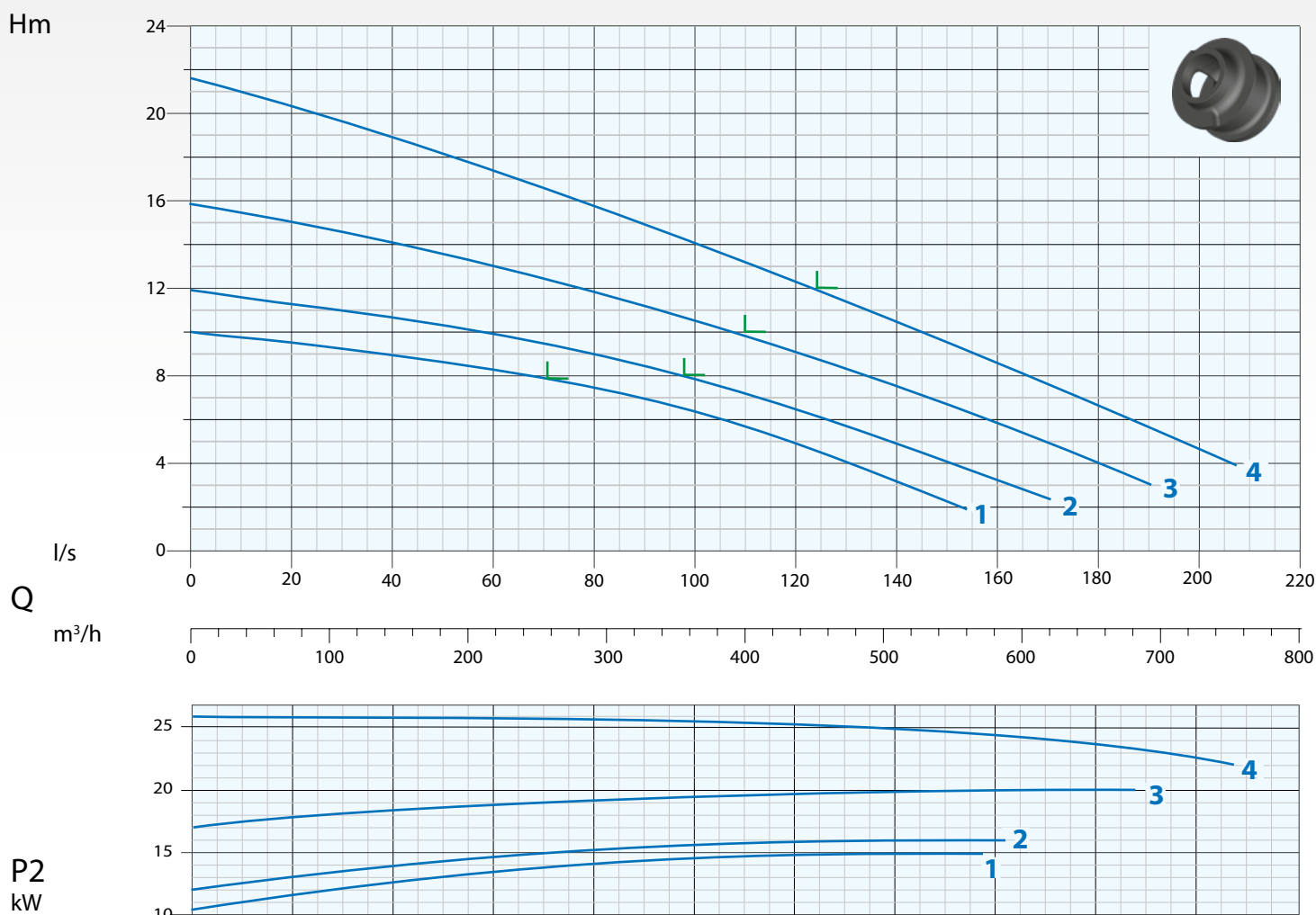
Piede di accoppiamento
rapido Tipo: B8
Automatic coupling foot
Type: B8



Curva flangiata portagomma N4
Base di sostegno P8
Flanged hose connection N4
Foot support P8

Mandata Orizzontale DN200 PN10 - RPM 1450 1/min 4 poli
Horizontal Outlet DN200 PN10 - RPM 1450 1/min 4 poles

Immagine a solo scopo illustrativo
Picture for illustration purposes only


Curva di Prestazione
Performance Curve


N°	Tipo Type	l/s l/m m³/h	20 1200 72	40 2400 144	60 3600 216	80 4800 288	100 6000 360	120 7200 432	140 8400 504	160 9600 576	180 10800 648	200 12000 720
1	AT 200/4/200 C.265	mt	9,5	9	8,5	7,5	6,5	5	3			
2	AT 200/4/240 C.270		11,5	10,5	10	9	8	6,5	5	2,5		
3	AT 200/4/240 C.275		15	14	13	11,5	10,5	9	7,5	5	4	
4	AT 200/4/240 C.280		20	18,5	17	15,5	14	12	10,5	9	7	5

N°	Tipo Type	EX	Mandata Delivery	Passaggio Free Passage	kW		HP	R.P.M. 1/min	A	Hz
					P1	P2			3 Phase - 400V	
1	AT 200/4/200 C.265	•	DN200 PN10	110 mm	18	15	20,4	1450	31,8	50
2	AT 200/4/240 C.270	•		110 mm	19,8	17	23,1		38,8	
3	AT 200/4/240 C.275	•		110 mm	22,6	20	27,2		41,4	
4	AT 200/4/240 C.280	•		110 mm	29,3	26	35,3		54,8	

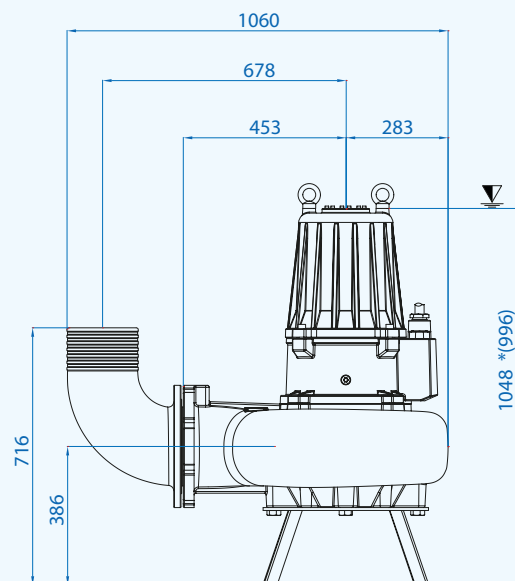
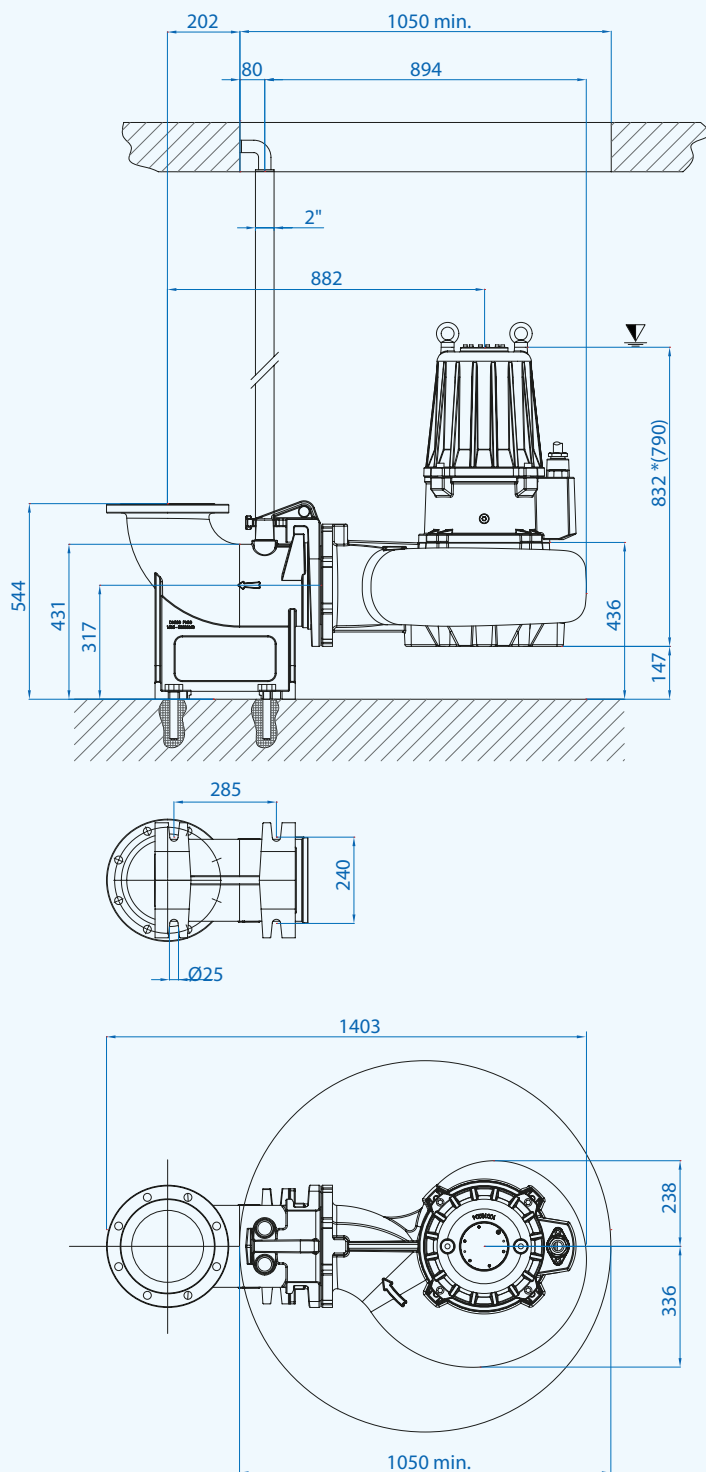
• Pompa antideflagrante disponibile con certificazioni:
Available explosion proof pump with certifications:



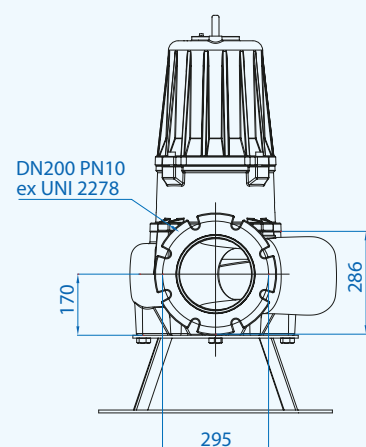
EPT 17 ATEX 2703 X



Ex db IIB T4 Gb
Ex h IIB T4 Gb
0° ≤ Ta ≤ 40°



*(AT 200/4/200 C.265)



Quote in mm
Dimensions in mm

Cavi / Cables

Pompe Pumps	Versione Version	Fasi Phases	Cavo Cable	Sezione cavo mm ² Cable cross section mm ²	mt
200/4/200	Standard	3 ~ 400V	H07RN8F	10x2,5 Ø23*	10
	ATEX	Y-Δ	NSSHÖU-J	7x2,5+3x0,50 Ø20*	10
200/4/240	Standard	3 ~ 400V	H07RN8F	7x4+3x1 Ø20,5*	10
	ATEX	Y-Δ	NSSHÖU-J	7x6+3x1 Ø24*	10

* Terminali liberi - Free terminals

Dimensioni imballo / Packaging dimension

Tipo - Type	X mm	Y mm	Z mm	Kg
AT 200/4/200 C.265	980	1310	730	296
AT 200/4/240 C.270				340
AT 200/4/240 C.275				341
AT 200/4/240 C.280				343

Technische Änderungen vorbehalten.
Subject to technical changes.

Accessori - Optional



Piede di accoppiamento rapido Tipo: B9
Automatic coupling foot
Type: B9



Curva flangiata portagomma N6
Base di sostegno P9
Flanged hose connection N6
Foot support P9

Doc_Rev.1
Date_06/02/20

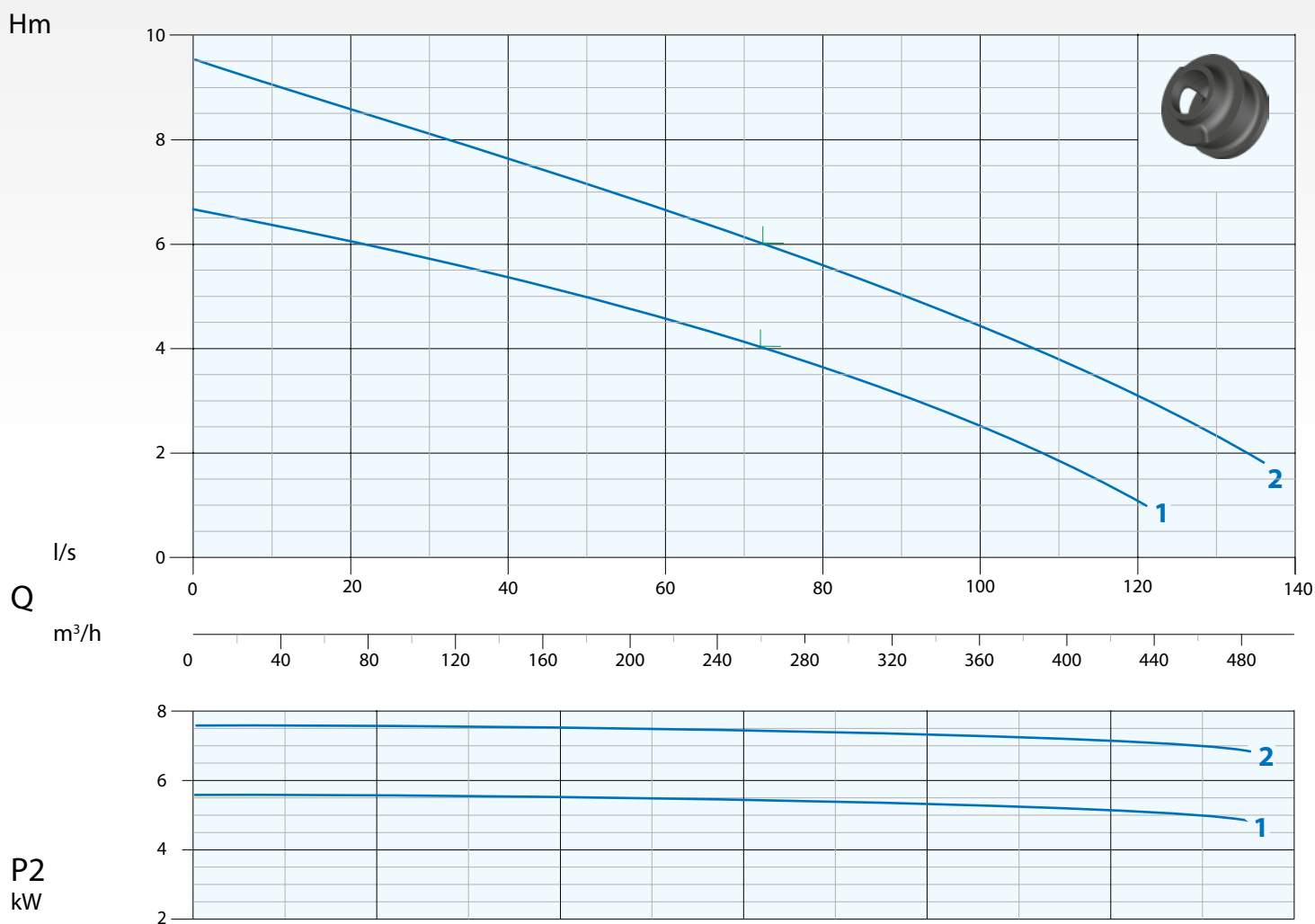
Mandata Orizzontale DN200 PN10 - RPM 960 1/min 6 poli*Horizontal Outlet DN200 PN10 - RPM 960 1/min 6 poles*

Immagine a solo scopo illustrativo
Picture for illustration purposes only



Curva di Prestazione

Performance Curve



N°	Tipo Type		l/s	10	20	30	40	50	60	80	100	120	130
			l/m	600	1200	1800	2400	3000	3600	4800	6000	7200	7800
1	AT 200/6/240 C.275	mt	m ³ /h	36	72	108	144	144	216	288	360	432	468
				6,5	6	5,7	5,4	5	4,5	3,6	2,5	1,5	
2	AT 200/6/240 C.280			9	8,5	8	7,6	7,2	6,6	5,5	4,5	3	2,3

N°	Tipo Type	Mandata Delivery	EX	Passaggio Free Passage	kW		HP	R.P.M. 1/min	A	Hz
					P1	P2			3 Phase - 400V	
1	AT 200/6/240 C.275	DN200 PN10	•	110 mm	6,6	5,5	7,5	960	14,2	50
2	AT 200/6/240 C.280		•	110 mm	9	7.5	10		17.5	

• Pompa antideflagrante disponibile con certificazioni:
Available explosion proof pump with certifications:

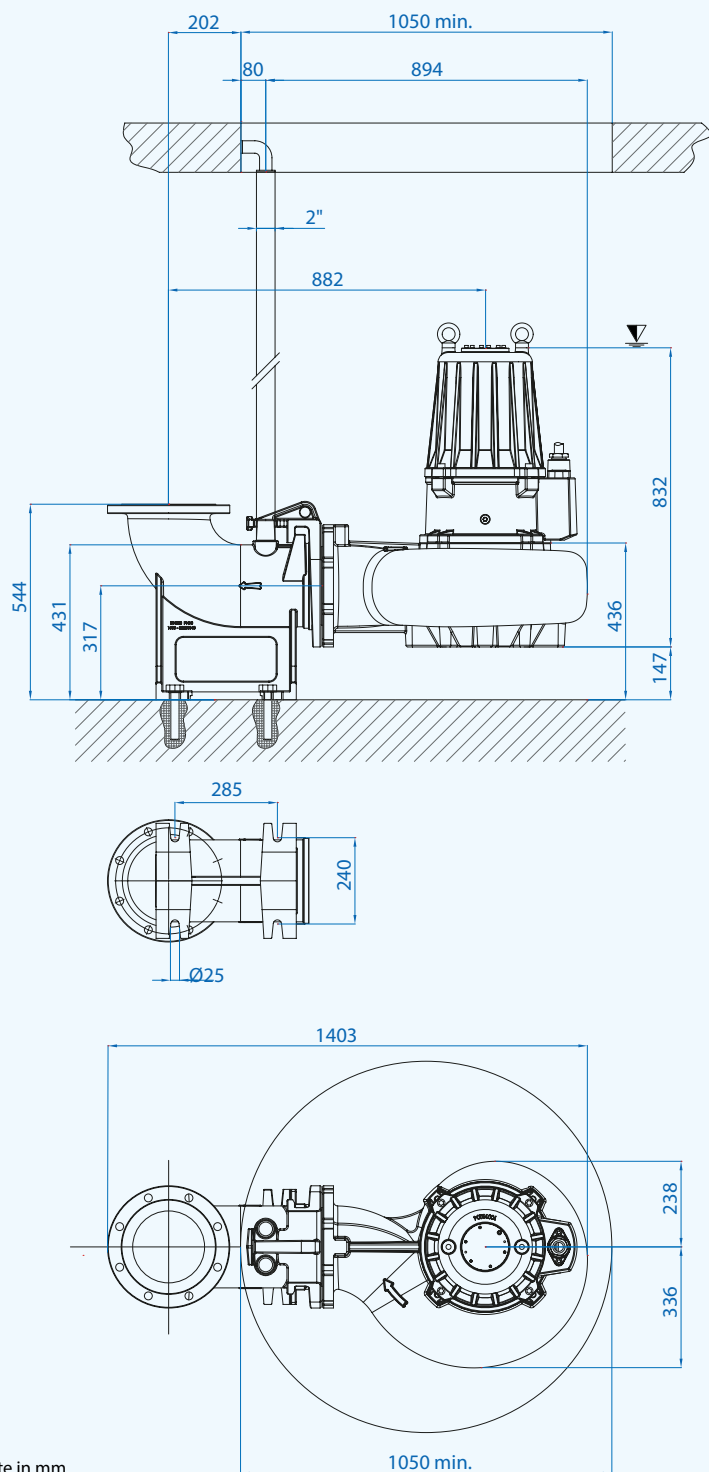


EPT 17 ATEX 2703 X

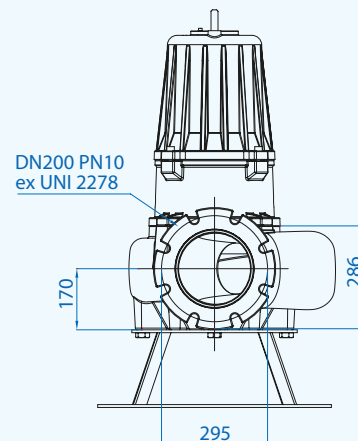
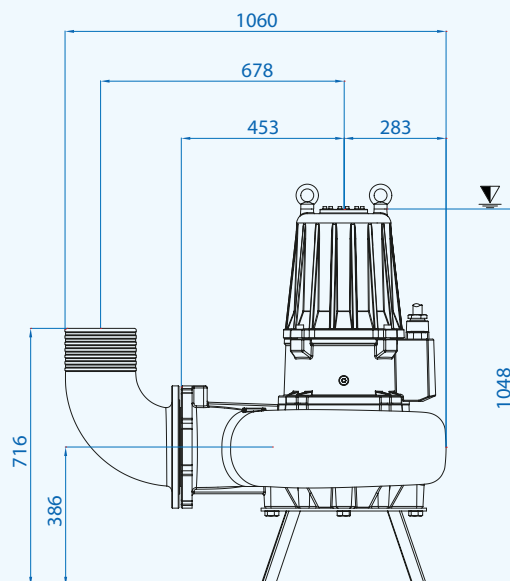


Ex db IIB T4 Gb
Ex h IIB T4 Gb
0° ≤ Ta ≤ 40°

A6



Quote in mm
Dimensions in mm



Cavi / Cables

Pompe Pumps	Versione Version	Fasi Phases	Cavo Cable	Sezione cavo mm ² Cable cross section mm ²	mt
200/6/240	Standard	3 ~ 400V	H07RN8F	10x2,5 Ø23*	10
	ATEX	Y-Δ	NSSHÖU-J	7x2,5+3x0,50 Ø20*	10

* Terminali liberi - Free terminals

Dimensioni imballo / Packaging dimension

Tipo - Type	X mm	Y mm	Z mm	Kg
AT 200/6/240 C.275	980	1310	730	320
AT 200/6/240 C.280				322

Technische Änderungen vorbehalten.
Subject to technical changes.

Accessori - Optional



Piede di accoppiamento rapido Tipo: B9
Automatic coupling foot
Type: B9



Curva flangiata portagomma N6
Base di sostegno P9
Flanged hose connection N6
Foot support P9

Doc_Rev.1
Date_06/02/20