

Zirantec

PERIPHERAL AND CENTRIFUGAL PUMPS **60Hz**



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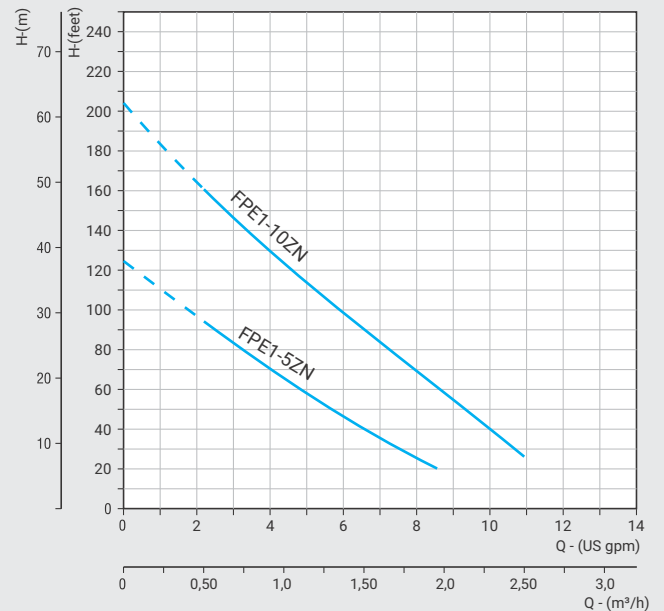


FABBRICA ITALIANA POMPE SOMMERGIBILI S.r.l.

PERIPHERAL PUMPS (FPE SERIES)



PERFORMANCE CURVES



PERFORMANCE TABLE

PUMP MODEL	MOTOR POWER		NOMINAL PUMP SIZE (Suc x Del)	m³/h	US-gpm	0	0,45	0,9	1,36	1,82	2,27	2,72
	HP	kW				0	2	4	6	8	10	12
FPE1-5ZN	0,5	0,37	1" x 1"	Total Head in feet	125	98	70	47	25	20 (8,5gpm)		
FPE1-10ZN	1,0	0,75	1" x 1"		203	165	130	99	70	40	27 (10,9gpm)	

In view of continuous developments the information / performance / descriptions / specifications / Illustrations are subject to change without notice.

SPECIFICATIONS

Power Range	: 0,5 HP & 1 HP
Speed	: 3450 rpm
Versions	: 1Ph, 110/220V, 60Hz (Permanent split capacitor-PSC) Incorporated with Thermal overload Protector
Direction of Rotation	: Clockwise viewed from driving end
Type of Duty	: S1 (Continuous)
Degree of Protection	: IP 54
Class of Insulation	: 'B'
Suction & Delivery Size	: 1" x 1" BSP / NPT

PUMP OPERATING LIMITS

Maximum Suction Lift upto	: 26 ft / 8 m
Flow Rate upto	: 10,5 GPM / 2,4 m³/h
Maximum Head upto	: 203 ft / 62 m
Maximum Operating Pressure	: 87 PSI / 6 bar
Maximum Liquid Temperature	: 122°F / 50°C
Maximum Ambient Temperature	: 104°F / 40°C

MATERIALS OF CONSTRUCTION

Pump Casing	: Cast Iron with SS insert
Motor Frame	: Aluminium
Impeller	: Forged Brass
Pump Bracket	: Cast Iron
Shaft	: S.S. 304 + Carbon Steel #45
Water Filling Plug	: Brass
Mechanical Seal	: Carbon & Ceramic
'O' Ring Seals	: NBR

FEATURES

- Sturdy and compact
- Quiet and maintenance free
- Excellent hydraulic performance
- Good suction lift characteristics
- SS insert is provided in the pump casing
- Incorporated with thermal overload protector
- Dynamically balanced rotating parts.

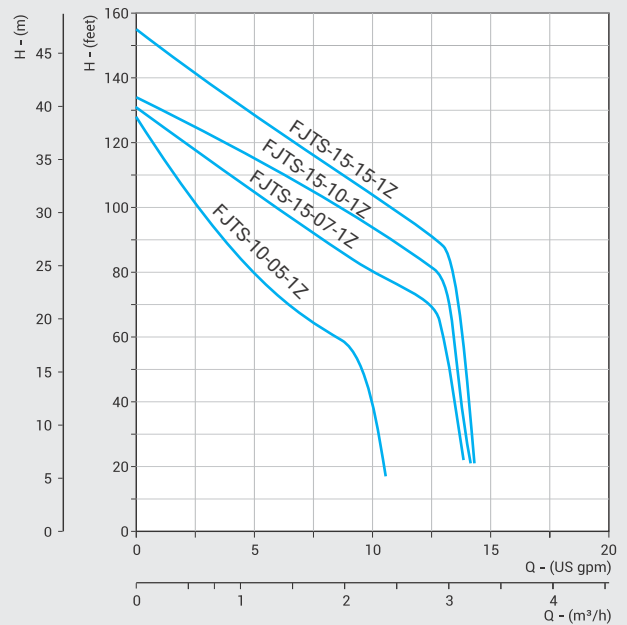
APPLICATIONS

- Residential
- Gardens
- Washing Systems
- Pressure Boosting Unit
- Civil Applications.

STAINLESS STEEL SELF-PRIMING JET PUMPS (FJTB SERIES)



PERFORMANCE CURVES



PERFORMANCE TABLE

PUMP MODEL	MOTOR POWER		NOMINAL PUMP SIZE (Suc x Del)	m³/h	US-gpm	0	0,57	1,13	1,7	2,27	2,84	3,18
	HP	kW				0	2,5	5	7.5	10	12,5	14
FJTS-10-05-1Z	0,5	0,37	1" x 1"	Total Head in feet	127	101	80	64	40	20(10,5gpm)		
FJTS-15-07-1Z	0,75	0,55	1" x 1"		131	117	104	92	80	70	22(13,2gpm)	
FJTS-15-10-1Z	1,0	0,75	1" x 1"		134	125	115	105	94	82	21(13,5gpm)	
FJTS-15-15-1Z	1,5	1,1	1" x 1"		155	141	128	115	103	91	21	

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SPECIFICATIONS

Power Range	: 0,5 HP - 1,5 HP
Speed	: 3450 rpm
Versions	: 1Ph, 110/220V, 60Hz (Permanent Split Capacitor-PSC) Incorporated with thermal overload protector 3Ph, 220/380/460V, 60Hz
Direction of Rotation	: Clock wise viewed from driving end
Type of Duty	: S1 (Continuous)
Degree of Protection	: IP 55
Class of insulation	: "F" / "B"
Suction & Delivery Sizes	: 1" x 1" BSP / NPT

APPLICATIONS

- Shallow wells
- Houses
- Small farms
- Garden
- Domestic
- Pressure boosting
- Car washing
- Small industrie
- Drinking water supply
- Food processing Industries.

MATERIALS OF CONSTRUCTION

Pump Casing	: S.S 304
Motor Frame	: Aluminium
Impeller	: S.S 304
Shaft	: S.S 304 + Carbon Steel #45
Mechanical Seal	: Carbon & Ceramic

PUMP OPERATING LIMITS

Maximum Head	: 148 ft / 44 m
Maximum Suction lift	: 23 ft / 7 m
Maximum liquid Temperature	: 140°F / 60°C
Maximum Ambient Temperature	: 122°F / 50°C

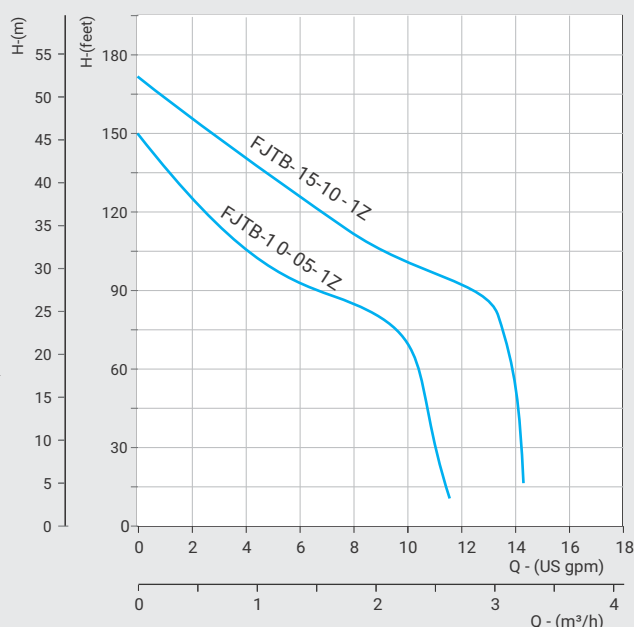
FEATURES

- High operating efficiency resulting in lower power consumption
- Good suction lift characteristics
- Dynamically balanced rotating parts including rotor and impeller
- Compact and rigid construction
- Inbuilt thermal overload protector in all single phase pumps
- All wet parts are made of corrosion resistant stainless steel material.

SELF-PRIMING JET PUMPS (FJTB SERIES)



PERFORMANCE CURVES



PERFORMANCE TABLE

PUMP MODEL	MOTOR POWER		NOMINAL PUMP SIZE (Suc x Del)	m³/h	0	0,45	0,9	1,36	1,82	2,27	2,72	3,18
	HP	kW										
FJTB-10-05-1Z	0,5	0,37	1" x 1"	US-gpm	0	2	4	6	8	10	12	14
FJTB-15-10-1Z	1,0	0,75	1" x 1"	Total Head in feet	150	124	105	92	85	72	10 (11,7gpm)	16 (14,2gpm)

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SPECIFICATIONS

Power Range	: 0,5 HP - 1,0 HP
Speed	: 3450 rpm
Versions	: 1Ph, 110/220V, 60Hz (Permanent Split Capacitor- PSC) Incorporated with thermal overload protector 3Ph, 220/380/460V, 60Hz
Direction of Rotation	: Clock wise viewed from driving end
Type of Duty	: S1 (Continuous)
Degree of Protection	: IP 55
Class of insulation	: "F" / "B"
Suction & Delivery Sizes	: 1" x 1" BSP / NPT

APPLICATIONS

- Shallow Well ■ Houses ■ Irrigation ■ Small Farms
- Domestic ■ Pressure Boosting units
- Small Industries ■ Washing Systems.

MATERIALS OF CONSTRUCTION

Pump Casing	: Cast Iron
Motor Frame	: Aluminium
Impeller	: Brass
Shaft	: S.S 304 + Carbon Steel #45
Mechanical Seal	: Carbon & Ceramic

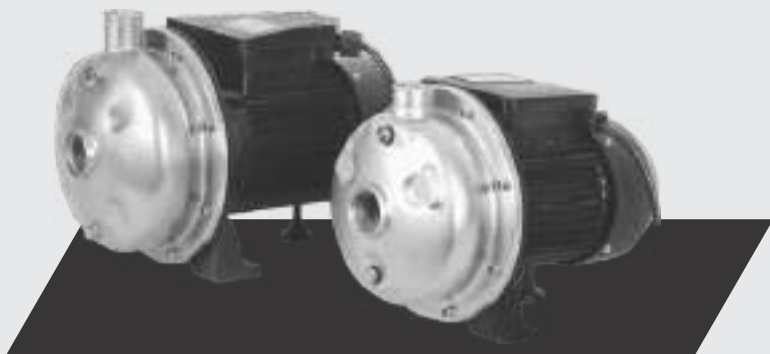
PUMP OPERATING LIMITS

Maximum Head	: 177 ft / 54 m
Maximum Suction lift	: 23 ft / 7 m
Maximum liquid Temperature	: 104°F / 40°C
Maximum Ambient Temperature	: 122°F / 50°C

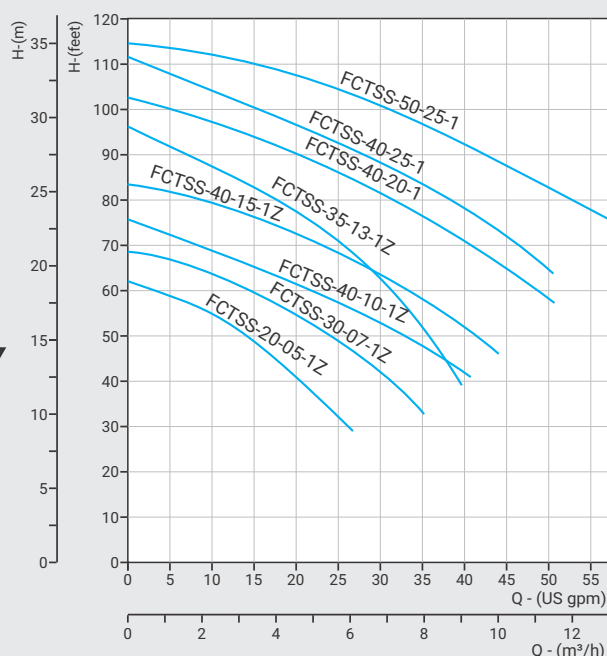
FEATURES

- High operating efficiency resulting in lower power consumption
- Good suction lift characteristics
- Dynamically balanced rotating parts including rotor and impeller
- Compact and rigid construction
- Inbuilt thermal overload protector in all single phase pumps.

STAINLESS STEEL CENTRIFUGAL PUMPS (FCTSS SERIES)



PERFORMANCE CURVES



PERFORMANCE TABLE

PUMP MODEL	MOTOR POWER		NOMINAL PUMP SIZE (Suc x Del)	m³/h	0	2,27	4,54	6,81	9,08	11,36	13,63
	HP	kW									
				US-gpm	0	10	20	30	40	50	60
FCTSS-20-05-1Z	0,5	0,37	1¼" x 1"	Total Head in feet	62	55	40	30 (26gpm)			
FCTSS-30-07-1Z	0,75	0,55	1¼" x 1"		69	63	54	42	33 (35gpm)		
FCTSS-40-10-1Z	1,0	0,75	1¼" x 1"		75	69	61	53	39		
FCTSS-35-13-1Z	1,3	1,0	1¼" x 1"		96	88	78	63	42		
FCTSS-40-15-1Z	1,5	1,1	1¼" x 1"		83	79	72	64	52	46 (44gpm)	
FCTSS-40-20-1	2,0	1,5	1¼" x 1"		102	98	90	81	71	58	
FCTSS-40-25-1	2,5	1,85	1¼" x 1"		112	104	97	88	78	64	
FCTSS-50-25-1	2,5	1,85	1½" x 1¼"		116	112	108	101	92	83	76 (57gpm)

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SPECIFICATIONS

Power Range	: 0,5 HP - 40 HP, 2 Pole
Speed	: 3450 rpm
Versions	: 1Ph, 110/220V, 60Hz (Upto 1,5HP) 1Ph, 220V, 60Hz (2HP & above) (Permanent Split Capacitor-PSC) Incorporated with thermal overload protector 3Ph, 220/380/460V, 60Hz
Direction of Rotation	: Clock wise viewed from driving end
Type of Duty	: S1 (Continuous)
Degree of Protection	: IP 55
Class of insulation	: "F" / "B"
Suction & Delivery Sizes	: 1¼" x 1", 1½" x 1¼", 2" x 2" BSP / NPT

APPLICATIONS

- Residential
- Irrigation
- Small Farms
- Pressure Boosting Units
- Industrial Water Supply
- Food Processing Industries
- Washing Systems.

MATERIALS OF CONSTRUCTION

Pump Casing	: S.S 304
Motor Frame	: Aluminium
Impeller	: S.S 304
Shaft	: S.S 304 + Carbon Steel #45
Mechanical Seal	: Carbon & Ceramic

PUMP OPERATING LIMITS

Maximum Head	: 115 ft / 35 m
Maximum Suction lift	: 23 ft / 7 m
Maximum Liquid Temperature	: 140°F / 60°C
Maximum Ambient Temperature	: 122°F / 50°C

FEATURES

- High Operating efficiency resulting in lower power consumption
- Good suction lift characteristics
- Dynamically balanced rotating parts
- Balanced and rigid construction
- Inbuilt thermal overload protector in all single phase pumps
- Complete SS construction more suitable for potable water.

STAINLESS STEEL
CENTRIFUGAL PUMPS
(FCTSS SERIES)

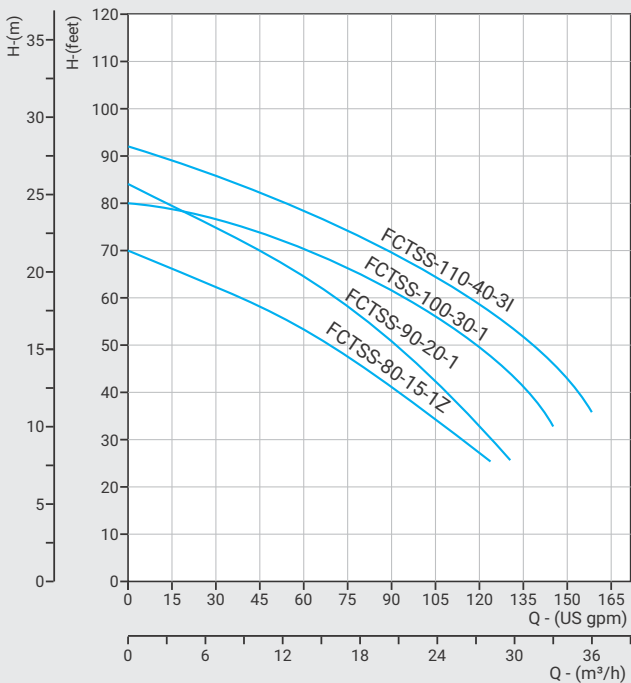


PERFORMANCE TABLE

PUMP MODEL	MOTOR POWER		NOMINAL PUMP SIZE (Suc x Del)	m³/h	0	6,81	10,22	13,63	17,03	20,44	23,85	27,25	30,66	35,88
	HP	kW		US-gpm	0	30	45	60	75	90	105	120	135	158
FCTSS-80-15-1Z	1,5	1,1	2" x 2"	Total Head in feet	70	62	58	53	47	41	34	27		
FCTSS-90-20-1	2,0	1,5	2" x 2"		80	74	70	64	58	50	42	33	26 (130gpm)	
FCTSS-100-30-1	3,0	2,2	2" x 2"		83	77	73	70	66	62	56	50	41	33 (145gpm)
FCTSS-110-40-3I	4,0	3,0	2" x 2"		92	85	82	78	74	70	65	59	52	36

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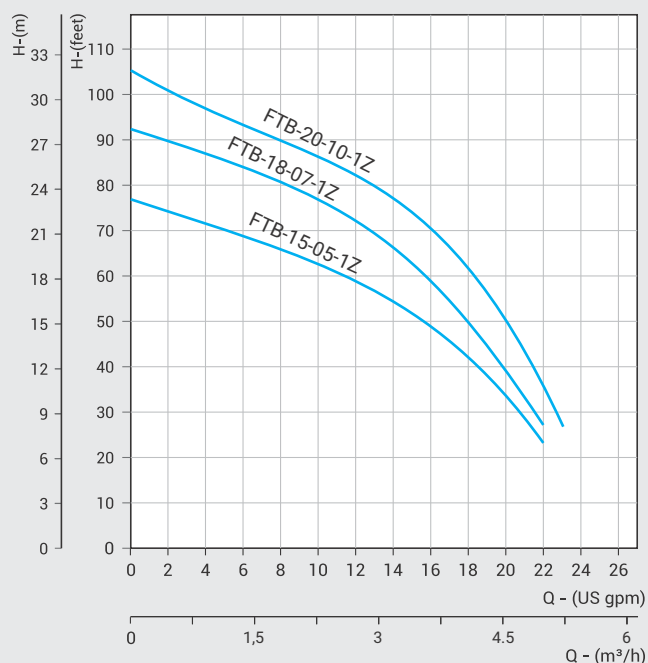
PERFORMANCE CURVES



CENTRIFUGAL MONOBLOCK PUMPS (FTB SERIES)



PERFORMANCE CURVES



PERFORMANCE TABLE

PUMP MODEL	MOTOR POWER		NOMINAL PUMP SIZE (Suc x Del)	m³/h	0	0,9	1,82	2,72	3,63	4,54	5	5,22
	HP	kW		US-gpm	0	4	8	12	16	20	22	23
FTB-15-05-1Z	0,5	0,37	1" x 1"	Total Head in feet	77	72	65	59	49	34	23	
FTB-18-07-1Z	0,75	0,55	1" x 1"		92	87	81	72	59	39	28	
FTB-20-10-1Z	1,0	0,75	1" x 1"		105	97	90	82	71	50	36	28

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SPECIFICATIONS

Power Range	: 0,5 HP - 2 HP
Speed	: 3450 rpm
Versions	: 1Ph, 110/220V, 60Hz (upto 1,5HP) 1Ph, 220V, 60Hz (2HP) (Permanent Split Capacitor-PSC) Incorporated with thermal overload protector 3Ph, 220/380/460V, 60Hz
Direction of Rotation	: Clock wise viewed from driving end
Type of Duty	: S1 (Continuous)
Degree of Protection	: IP 55
Class of insulation	: "F" / "B"
Suction & Delivery Sizes	: 1" x 1", 1½" x 1½" & 2" x 2" BSP/NPT

APPLICATIONS

- Residential ■ Irrigation ■ Small Farms ■ Pressure Boosting units
- Industrial Water Supply ■ Washing Systems

MATERIALS OF CONSTRUCTION

Pump Casing	: Cast Iron
Motor Frame	: Aluminium
Impeller	: Bronze / Cast Iron
Shaft	: S.S 304 + Carbon Steel #45
Mechanical Seal	: Carbon & Ceramic

PUMP OPERATING LIMITS

Maximum Head	: 105 ft / 32 m
Maximum Suction lift	: 23 ft / 7 m
Maximum liquid Temperature	: 104°F / 40°C
Maximum Ambient Temperature	: 122°F / 50°C

FEATURES

- High operating efficiency resulting in lower power consumption
- Good suction lift characteristics
- Dynamically balanced rotating parts
- including rotor and impeller ■ Compact and rigid construction
- Inbuilt thermal ■ Overload protector in all single phase pumps.

CENTRIFUGAL MONOBLOCK PUMPS (FTB SERIES)



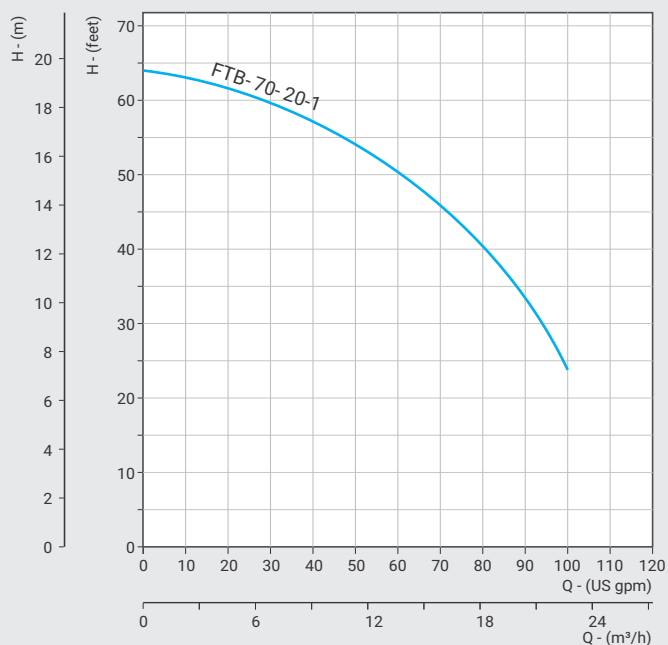
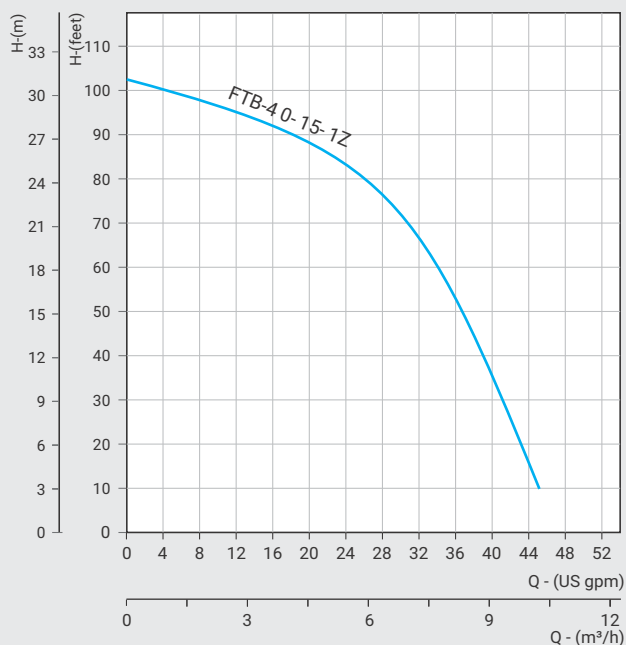
PERFORMANCE TABLE

PUMP MODEL	MOTOR POWER		NOMINAL PUMP SIZE (Suc x Del)	m³/h	0	1,82	3,63	5,45	6,35	7,27	8,17	9,08	10,22
	HP	kW			US-gpm	8	16	24	28	32	36	40	45
FTB-40-15-1Z	1,5	1,1	1½" x 1½"	Total Head in feet	31	29,5	28	25	23	20	16	11	3

PUMP MODEL	MOTOR POWER		NOMINAL PUMP SIZE (Suc x Del)	m³/h	0	4,54	9,08	11,36	13,63	15,90	18,17	20,44	22,71
	HP	kW			US-gpm	20	40	50	60	70	80	90	100
FTB-70-20-1	2	1,5	2" x 2"	Total Head in feet	64	62	57	54,5	50	46	40	33	24

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PERFORMANCE CURVES





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