



Xylem Inc.
Flygt Products

2400 Tarpley Rd
Carrollton, TX 75006
Tel (972) 418-2400
Fax (972) 416-9570

BILL OF MATERIALS

PROJECT: ROCKWALL CHANDLERS DEEP LIFT STATION IMPROVEMENTS

CONTRACTOR: CIVIL UNDERGROUND CONTRACTORS CORP.

Pumps & Accessories

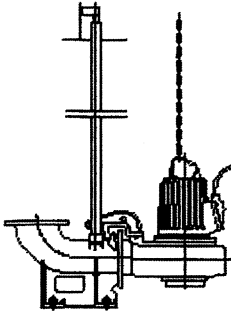
Qty	Part Number	Description
2	3127.181-0128	Flygt Model NP-3127.181 4" volute Submersible pump equipped with a 460 Volt / 3 phase / 60 Hz 10 HP 1750 RPM motor, 438 impeller, 1 x 50 Ft. length of SUBCAB 10AWG/3-2-1-GC submersible cable, FLS leakage detector, volute is prepared for Flush Valve
2	14-58 91 06	HOOK,SAFETY ASSEMBLY SS
2	613 68 04	BRACKET,GUIDE BAR UPPER 2" 316
1	14-48 94 00	HOLDER,CABLE HEAVY DUTY 316SS
2	540 13 05	CONNECTION,DISCH 4X4" CI
2	14-58 42 40	BRACKET,INT GB 2 X 4" 304SS+ FOR CI PIPE
50	14-48 71 13	CHAIN, LIFTING 3/16IN 316L SS
2	14-58 72 08	KIT,CHAIN FITTING 3067-3127+ 316SS
4	582 88 31	SENSOR,ENM-10 0.95-1.1 65'
2	14-40 71 29	MINI-CASII/FUS 120/24VAC,24VDC
2	14-40 70 97	SOCKET,11 PIN OCTAL DIN MOUNT 12/02
100'		2" SS GUIDE RAIL PIPE SCH40
1	14-69 97 11N	START UP CHARGE FLYGT NO TAX
1	14-69 98 30N	Freight Charge



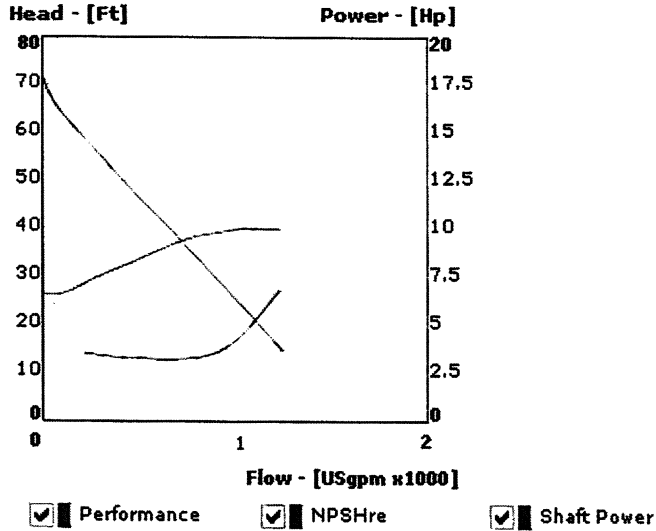
Chandler's Deep

PRODUCT: NP 3127 MT

Product picture



Curves Enlarge



Pump Data

Curve id: 63-438-00-3704 Impeller: 438 Poles: 4 - pole Motor: 21-12-4AL Frequency: 60 Hz

Motor Data

Rated output power Hp (kW)	Ø	Nominal voltage (V)	Full load current (A)	Locked rotor current (A)	Locked rotor kVA	Locked rotor code letter kVA/HP	Poles/rpm
10 (7.5)	3	460	13	64	51	F	4/1735
10 (7.5)	3	230	25	128	51	F	4/1735

Pump motor Hp	Efficiency			Power factor		
	100% load	75% load	50% load	100% load	75% load	50% load
10	83.5	85	84.5	0.89	0.87	0.81

Cable Data

HP	Cables	Volts	Max. length (Ft)	Cable size/Nominal OD.	Conductors (In one cable)	Type	Part number
10	1	230 460	135 520	#10/3-2-1-GC 0.84"-(21.3mm)	(3) 10 AWG (PWR) (2) 12 AWG (CTRL) (1) 10 AWG (GND) (1) 12 AWG (GC)	STD	942106

Available Discharge Connection Outlet Size

Outlet Drilled Flange 4" , 6"

Warm Liquid Data

Rtd. Amb. Temp. Rtd. Curr.(1) Rtd. Curr.(2) De-rated Shaft Power
70° C / 158° F 10 A 20 A 7.7 Hp



ITT

Chancellers Deep

NP 3127 MT 3~ 438

Performance curve



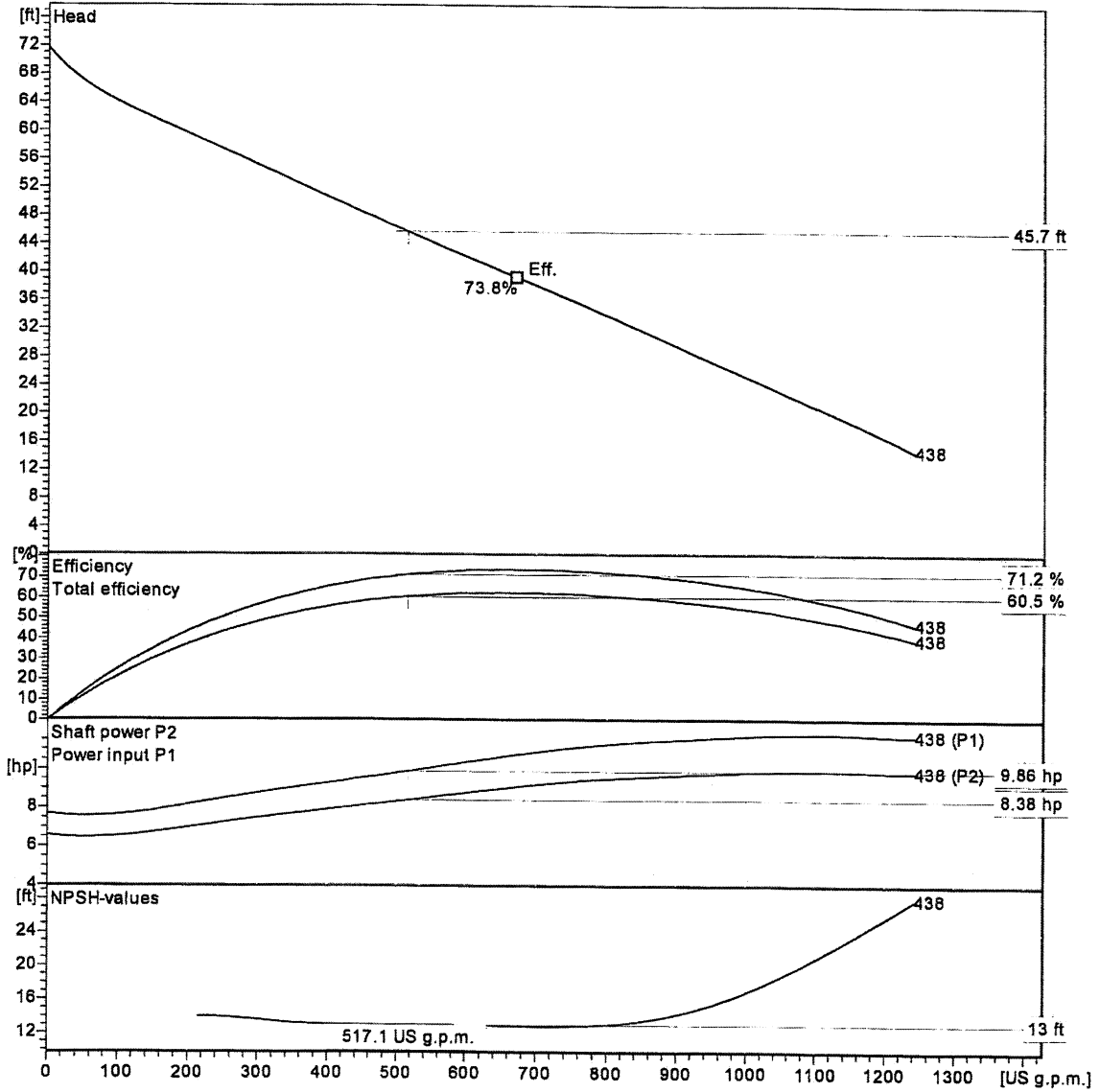
Pump

Outlet diameter 3¹⁵/₁₆"
 Inlet diameter 150 mm
 Impeller diameter 7¹⁵/₁₆"
 Number of blades 2
 Throatlet diameter

Motor

Motor# N3127.181 21-12-4AL-W 10hp
 Stator variant
 Frequency 60 Hz
 Rated voltage 460 V
 Number of poles 4
 Phases 3~
 Rated power 10.058 hp
 Rated current 13 A
 Starting current 63.96 A
 Rated speed 1735 rpm

Power factor
 1/1 Load 0.89
 3/4 Load 0.87
 1/2 Load 0.81
 Efficiency
 1/1 Load 83.5 %
 3/4 Load 85 %
 1/2 Load 84.5 %



Curve according to: ISO 9906 grade 2 annex 1

Duty point

Flow	Head	Shaft power	NPSHre	Hyd. eff.	Guarantee
510 US g.p.m.	44.4 ft	<8.65 hp		69.1 %	HI_Class_A Yes

Project

Project ID

Created by

Created on

Last update

2011-10-14