



PARTS LIST		
KEY	ITEM	DESCRIPTION
1	INLET	4" FF 125# FLANGE
2	SUCTION DIFFUSER	4x3 CAST IRON SUCTION DIFFUSER WITH STAINLESS STEEL BASKET
3	PUMP	GOULDS: 11A12K9D0 220 GPM @ 80 TDH 7-1/2HP TEPE
4	SKID	CARBON STEEL WITH ZINC PRIMER AND EPOXY TOP COAT
5	CONTROL PANEL	NEMA 4X ENCLOSURE MAIN POWER DISCONNECT MAIN POWER LED INDICATOR PUMP H-O-A SWITCH PUMP RUNNING LED INDICATOR PURGE H-O-A SWITCH SYSTEM PURGING LED INDICATOR ALARM LED INDICATOR 460VAC TO 120VAC TRANSFORMER PUMP CONTACTOR AND OVERLOAD PROGRAMMABLE PURGE CONTROLLER REMOTE START/STOP TERMINALS (24VDC) REMOTE PURGE TERMINALS (24VDC)
6	SEPARATOR	XFT-0250 FLOW RATE @ 4 PSID: 129 GPM FLOW RATE @ 12 PSID: 224 GPM
7	PURGE	1-1/2" FNPT MOTORIZED PURGE
8	DISCHARGE	2-1/2" RF 150# FLANGE
DRAWN RB		2/16/2021
CHECKED		
MATERIAL		
FINISH EPOXY COATED		
MACHINED TOLERANCE: ± 0.005 INCHES		
FABRICATED TOLERANCE: ± 0.063 INCHES		
TITLE		J.L. WINGERT CO.
TITLE		JLW 220 GPM @ 80 ' TDH, MOTORIZED PURGE, SUCTION DIFFUSER
SIZE	DWG NO	REV
	CT-0220-80-MPK/SD	
SCALE	1 / 8	SHEET 1 OF 1



Customer	Date	16.02.2021
Contact	Project	
Phone number	Project no.	
Email		

11A12K9D0

Operating data

Pump type	Fluid	Water
No. of pumps / Reserve	Operating temperature t A	°F 39.2
Nominal flow	pH-value at t A	7
Nominal head	Density at t A	lb/ft ³ 62.4
Static head	Kin. viscosity at t A	ft ² /s 1.689E-5
Inlet pressure	Vapor pressure at t A	psi 14.5
Environmental temperature	Solids	0
Available system NPSH	Altitude	ft 0

Pump data

Make	Goulds Water Technology	Nominal	US g.p.m. 219.2 (219.2)
Speed	rpm 1800	Flow	Max- US g.p.m. 309.6
No. of stages	1		Min- US g.p.m.
Max. casing pressure	psi		Nominal ft 79.5
Max. working pressure	psi 39.9	Head	at Qmax ft 65.2
Head H(Q=0)	ft 92		at Qmin ft 92.1
Weight	lb 358	Shaft power	hp 6.1 (6.1)
	Max. inch 10 1/16	Max. shaft power	hp
Impeller R	designed inch 9	Efficiency	% 71.49
	Min. inch 7 1/8	NPSH 3%	ft 7.4

Shaft Seal

Type 21	Xylem
Car/Cer/Buna (Std.) [Max Temp. 212°F/100°C]	
Rotary	Carbon
Stationary	Ceramic
Elastomers	Buna-N
Metal Parts	316 SS
Application	General Use, Clean Water to 212°F/100°C, Non-Fluctuating Temp

Motor data

Specific design	3ph TEPE	Speed	1750 rpm	Insulation class	F
Electric voltage	460 V	Frame size	213JM	Colour	RAL 5010
Type	230/460V 213JM (C11A34F5BE2S)	Degree of protection	IP 55		
Rated power	7.5 hp	Electric current	9.5 A		

Remarks:



Customer	Date	16.02.2021
Contact	Project	
Phone number	Project no.	
Email		

11A12K9D0

Pump Materials

100 - Casing	Gray cast iron ASTM A48 CL20B
101 - Impeller	Gray cast iron ASTM A48 CL20B
103 - Casing wear ring	Gray cast iron ASTM A48 CL20B
108 - Adapter	Gray cast iron ASTM A48 CL20B
178 - Impeller key	Carbon Steel
184 - Seal housing (One piece with adapter)	Gray cast iron ASTM A48 CL20B
198 - Impeller bolt	AISI Type 300 series stainless steel
199 - Impeller washer	AISI Type 300 series stainless steel
370 - Hex head cap screw (adapter to case)	Steel SAE 1200 Grade 5
371 - Hex head cap screw (adapter to motor)	Steel SAE 1200 Grade 5
383 - Mechanical seal	See seal chart
408 - Pipe plug 1/4" or 3/8"	Steel
513 - O-ring	BUNA-N

3656 M & L-GROUP MATERIALS OF CONSTRUCTION
MATERIALES DE CONSTRUCCIÓN - GRUPO M Y L, MODELO 3656

ANSI 1045 steel motor shaft extension (typical)
ANSI 1045 extensión del eje del motor de acero (típica)

Packed Box Arrangement
Caja prensaestopas

Remarks:



Customer		Date	16.02.2021
Contact		Project	
Phone number		Project no.	
Email			

11A2K9D0

Hydraulic Data

Operating Data Specification		Hydraulic data (duty point)		Impeller design	
Flow	220 US g.p.m.	Flow	219 US g.p.m.	Impeller R	9 inch
Head	80 ft	Head	79.5 ft	Frequency	60 Hz
Static head	0 ft			Speed	1800 rpm

Power data referred to:
 Water [100%] ; 39.2°F; 62.4lb/ft³; 1.69E-5ft²/s
 Performance according to ISO 9906:2012 – Grade 3B

