

### Applications

The JP 4720 is used in waste treatment plants for retention basin cleaning. Water entering retention basins often contains solid particles and other suspended matter which can build-up on the floor and walls of the basin, causing toxic gasses and unpleasant odors. When a powerful Flygt jet mixing ejector is installed in the basin, all solid materials are resuspended and then flushed as the basin is emptied, eliminating the need for manual cleanup.

### Pump Features:

**Cable.** Standard 50 ft. of SubCab cable.

**Junction Chamber.** Cable entry incorporates a strain relief and grommet controlled compression sealing. Between the junction box and stator housing a rubber gland provides additional seal protection of the motor.

**Pump Housing.** High strength, cast iron ASTM A48 No. 35B body. Static seals are leakproof Nitrile rubber O-rings in precision machined grooves, with controlled compression. The volute bottom provides sealing between volute and impeller. Adjustable clearance between volute bottom and impeller to maintain peak efficiency throughout the life of the pump.

**Shaft.** Stainless steel ASTM A479 S43100-T

**Motor.** Air filled, NEMA design B with class H (180°C) insulation. 4 pole. Shrink-fit to the motor housing. Allows no less than 15 starts per hour. Built-in thermal sensors for additional motor overload protection.

**Bearings.** Upper: double row ball bearing. Lower: double row angular contact ball bearing.

**Shaft Seals.** Independent double face seals with Active Seal™ technology. Upper seal: tungsten carbide/tungsten carbide. Lower seal: tungsten carbide/tungsten carbide.

**Impeller.** Semi-open multi-vane, back swept, non-clog design with self cleaning vane leading edges. Material: cast of Hard-Iron™ (ASTM A-532 (Alloy III A) 25% chrome cast iron with leading edges hardened to HRC 60.

**Fasteners.** Stainless steel AISI 316

### Ejector Assembly Features:

**Ejector Pipe.** Stainless steel

**Nozzle.** Cast Iron

### Approval:

CSA approved to UL Standard #778.



### Options:

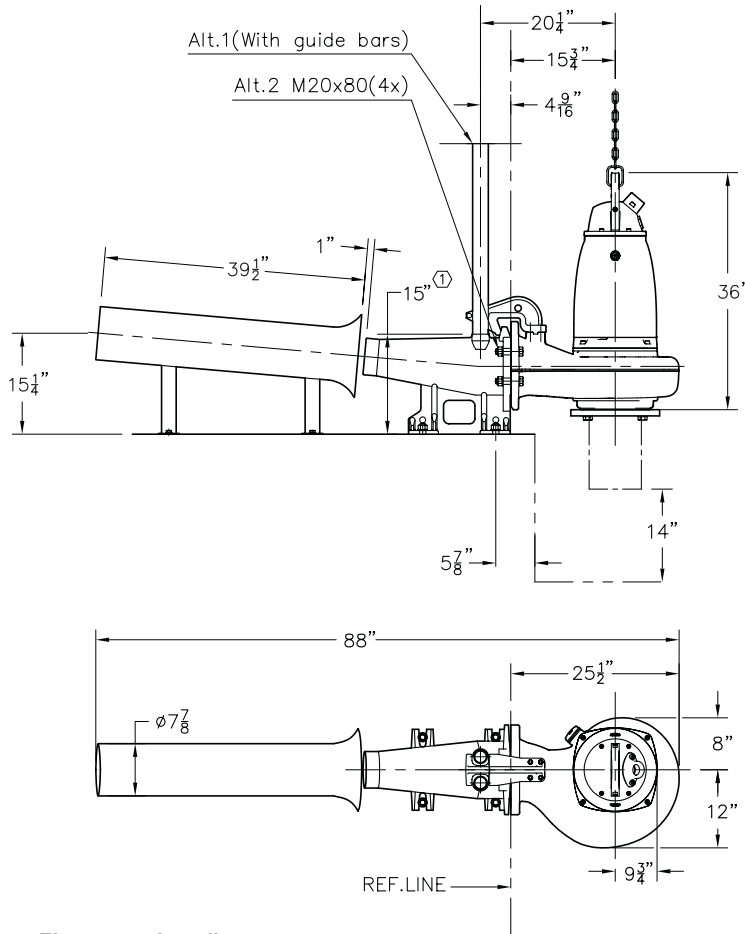
**Standard variant N3153.185;**  
**Explosionproof FM approved variant N3153.095;**  
Warm Liquid version

### Controls (not shown).

Manual or Automatic controls, providing short circuit and overload protection, housed in NEMA 4X (watertight, corrosion resistant) plastic enclosures. Automatic controls are available complete with Flygt Level Probes or ENM-10 level switches for unattended operation.

### Accessories:

Zinc Anodes.



⊙ NOTES:  
1. DIM. TO END OF GUIDE BARS.

NOM. SIZE	VERSION	WEIGHT (LBS.)	
		PUMP	DISCH.
8"	LT	710	115

Pump Model	Ejector Assembly	Impeller Code	HP	Phase	Volts	FLA	LRA	Poles/rpm	Cable Size	Max. Cable Length (Ft.)	Cable Part Number
N 3153 LT	726 85 00	416	20	3	200	59	330	4/1755	4G16+S(2x0.5)	125	94 19 82
			20	3	230	52	296	4/1755	4G16+S(2x0.5)	165	94 19 82
			20	3	460	26	148	4/1755	4G16+S(2x0.5)	675	94 19 82
			20	3	575	21	116	4/1755	4G6+2x1.5	430	94 20 56

Locked Rotor KVA	Locked Rotor Code Letter	Rated Input Power kW
118.0	G	17.0

Efficiency			Power Factor		
100% LOAD	75% LOAD	50% LOAD	100% LOAD	75% LOAD	50% LOAD
87.5	89.0	89.0	0.83	0.77	0.66

Note: Other horsepowers available.

Material		
Denomination	Material	ASTM
Nozzle	Cast iron	A 48 No 35B
Pipe	Stainless steel	304
Screws, stud and nuts	Stainless steel	316L
Surface treatment		
Primer		M 0722.61
Coating		M 0726.00

### Optimal results

Our system engineers have years of experience at providing the optimum solutions for retention basins and can provide any help necessary with selection, dimensioning, and positioning of units.

We have worked together with many different customers, supplying the best possible results for their different sized and shaped retention basins. Customer satisfaction is our primary goal.

Xylem Inc., Flygt products, reserves the right to modify performance, specifications or design without notice.