



Doc #:	DS-A50-042	Rev:	06	Rev Date:	04/02/2024
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PUMP DESIGN	
Pump Type	Direct In-Line, Duplex
Impeller Options	DIPCUT®, Vortex
Shaft Seal	Mechanical Seal
Maximum Solids Size	3.0 in (76mm)

MATERIALS	
Pump Body + Hydraulics	304 Stainless Steel (316SS Option)
External Hardware	304 Stainless Steel
Motor Body	Cast Iron, Painted
Gaskets	Nitrile Rubber *
Mechanical Seal	304SS, FKM Elastomer, Tungsten Carbide Faces *

* (Other options available on request)

TEMPERATURE	
Max Fluid Temperature	160°F / 70°C (High-Temp 212°F / 100°C Option)
Max Ambient Temp.	104°F / 40°C

Connection Options:	Pump Inlet	Isolation Branch	Pump Outlet(s)
OW31C Isolation Valved	6" ANSI Flange	3" ANSI Flanges	4" ANSI Flange
OW31YC Dual Discharge	6" ANSI Flange	3" ANSI Flanges	2x 3" ANSI Flange
OW31 Standard Body	6" ANSI Flange	N/A	4" ANSI Flange
OW31Y Dual Discharge	6" ANSI Flange	N/A	2x 3" ANSI Flange



*Standard OW31CP
pictured right and left.*

*Alternative inlet/outlet
orientations available.*





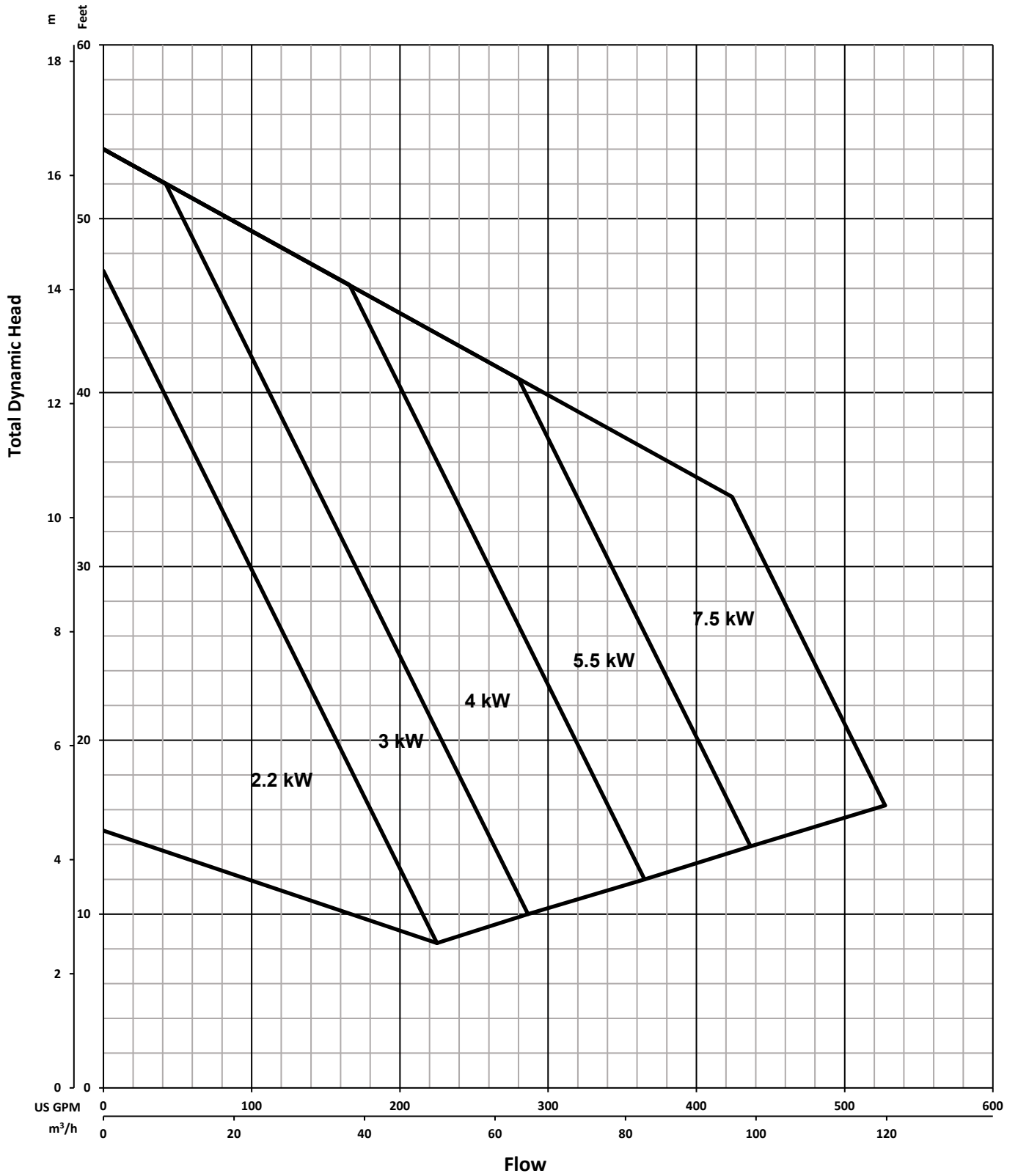
MOTOR SPECIFICATIONS	
Electrical Design	4 Pole, 3-Phase Squirrel-Cage Induction Motor, 50/60Hz
Mechanical Design	IEC Frame, Flange mounted
Motor Type	Total Enclosed Fan-Cooled (TEFC), IP67 Immersible <i>(Other IP ratings & Certifications available on request)</i>
Insulation Class	Class F
Service Factor	1.15
Voltage Tolerance	+/- 10% from Nominal
Max Starts per Hour	240 (VFD Driven)
VFD Motor Protections	Stall, Dry Run / Underload, Anti-Cavitation, Overload, High/Low voltage, Phase Loss / Phase Imbalance


MOTOR DATA					
Rated Power @ 50 Hz	208V FLA	230V FLA	460V FLA	575V FLA	Pump Weight
3.0 HP / 2.2 kW	10.4	8.0	4.7	3.8	483lb (219kg)
4.0 HP / 3.0 kW	14.4	13.0	6.5	5.2	499lb (226kg)
5.4 HP / 4.0 kW	18.4	16.6	8.3	6.6	560lb (254kg)
7.4 HP / 5.5 kW	23.9	21.6	10.8	8.6	666lb (302kg)
10.1 HP / 7.5 kW	32.1	29.0	14.5	11.6	708lb (321kg)

Contact our Applications Engineering Department for more Detailed information:

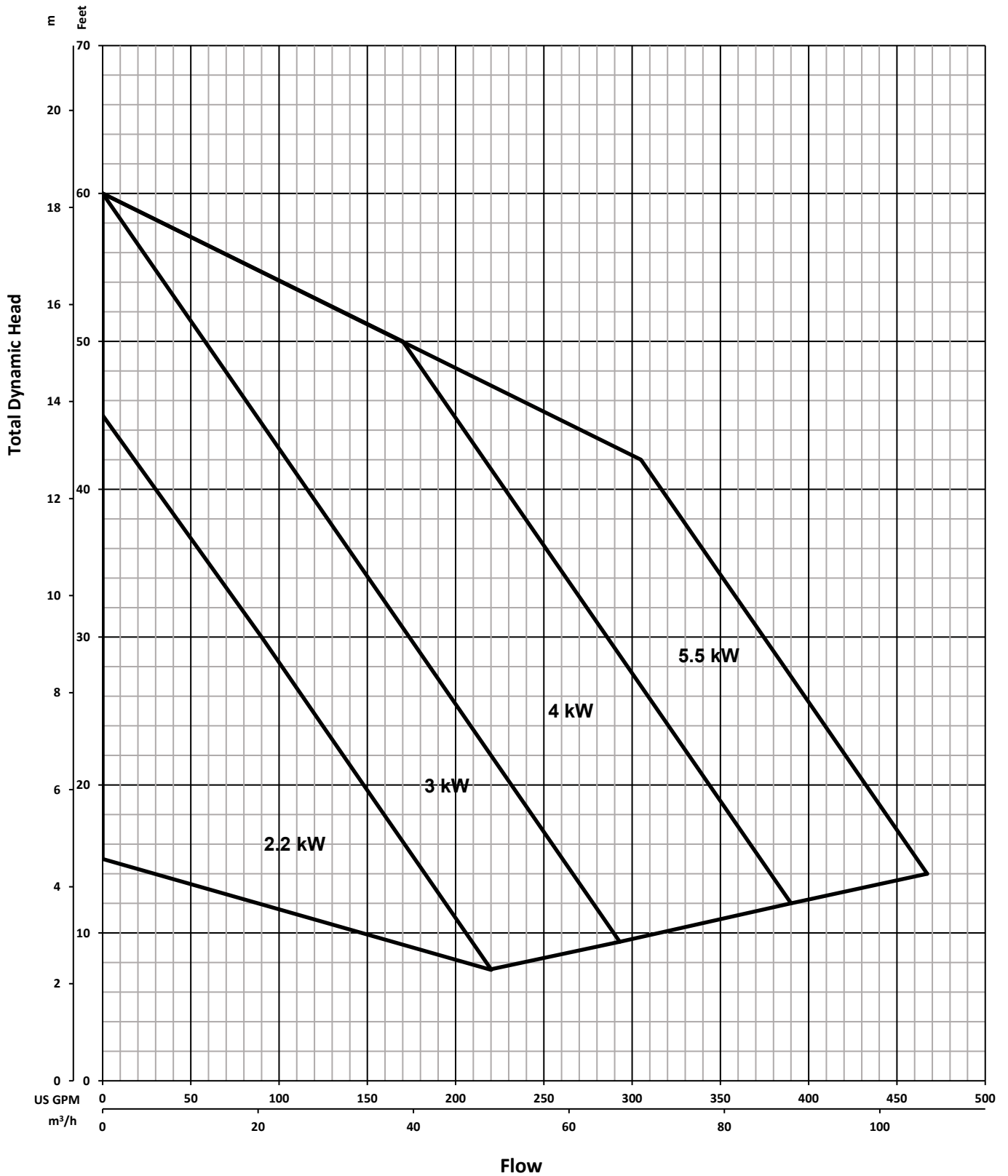
- Pump Performance Curves – For Impeller + Motor Selection
- Pump Outline Drawings – Final Assembly Dimensions
- DS-A50-066 Level Sensor Technical Datasheet
- DA-A50-070 Overwatch Electric Motor Datasheet.
- DS-A50-103 Mechanical Seal Information


FAMILY CURVE OW31-4VV DC



 INDUSTRIAL FLOW SOLUTIONS	FAMILY CURVE OW31-4VV DC			DS-A50-XXX		
	Tested with clean water Test Standard : HI 11.6 Gr 3B 50Hz Motor kW rating		Model	OW31-4VV		
			Motor kW	2.2-3-4-5.5-7.5	Poles	4
			Impeller Ø	180x40mm		Rev
				Date	5/30/2025	
Specifications subject to change without notice						

FAMILY CURVE OW31-4VV VX



 INDUSTRIAL FLOW SOLUTIONS	FAMILY CURVE OW31-4VV VX			DS-A50-569	
	Tested with clean water Test Standard : HI 11.6 Gr 3B 50Hz Motor kW rating	Model	OW31-4VV		Rev -- ITIV
		Motor kW	2.2-3-4-5.5	Poles	4
		Impeller Ø	185x40x20mm	Date 7/14/2025	
Specifications subject to change without notice					