

Submittal Data Sheet

High-Efficiency Multistage Pumps

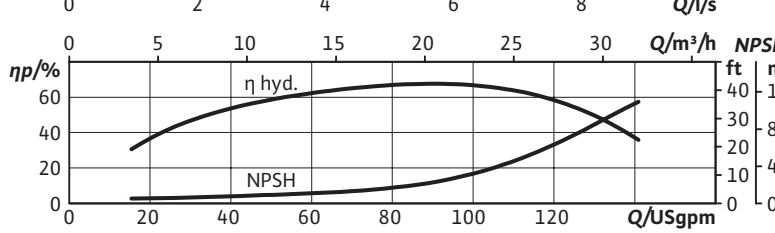
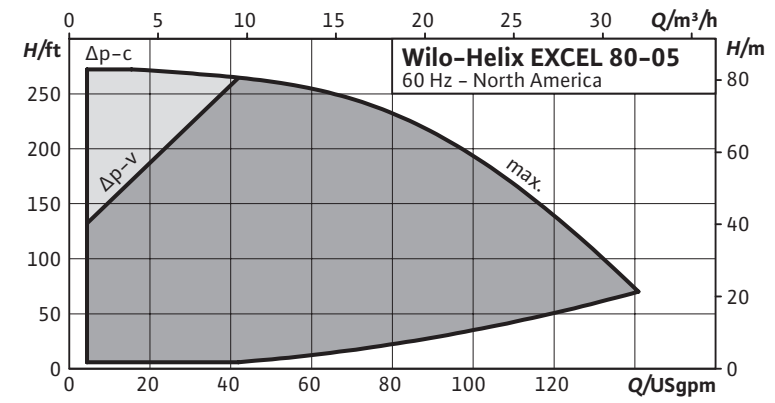
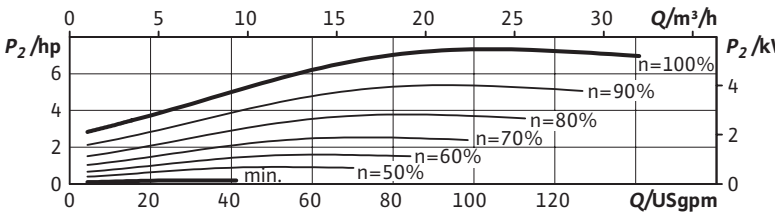
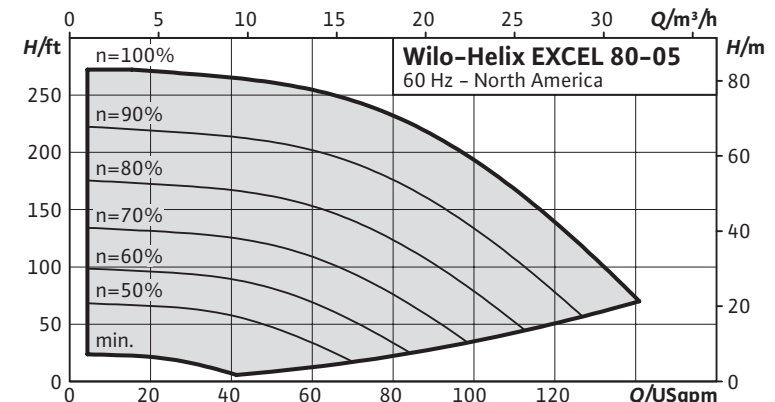


Helix EXCEL 80-05



Project:	
Engineer:	
Contractor:	
Submitted By:	Date:
Approved By:	Date:

Tag #	Model #	Flow	Head	Volute	Control Mode	HP	Phase	Voltage
	Helix Excel 80-05					7.4	3	460



Technical Data	
Liquid Temp Range	-22°F to 284°F (-30°C to +120°C)
Fluid Compatibility	Water, up to 50/50 Water-Glycol
Max Operating Pressure	232.1/362.6 PSI
Mains Voltage	460V (±10%) 60Hz
Protection Class	IP 55, Class F Insulation
Ambient Temp Range	5°F to 104°F (-15°C to 40°C)
Ambient Humidity	< 90% without condensation

Materials of Construction		
Pump Volute	AISI 304L*	AISI 316L
Mechanical Seal	EPDM	FKM
Impellers Stage Housings Diffusers	AISI 304L	AISI 316L
Shaft	AISI 304L / AISI 318 LN	AISI 316L / AISI 318LN
O-ring for mechanical seal	EPDM (FKM gasket on request)	EPDM (FKM gasket on request)
Sleeve under the mechanical seal	AISI 316L	AISI 316L

*304 pump volutes are NSF 61 certified

IR Module Selection	
Select	Module
	BACnet / Dual Pump
	LONworks / Dual Pump
	MODBus
	None

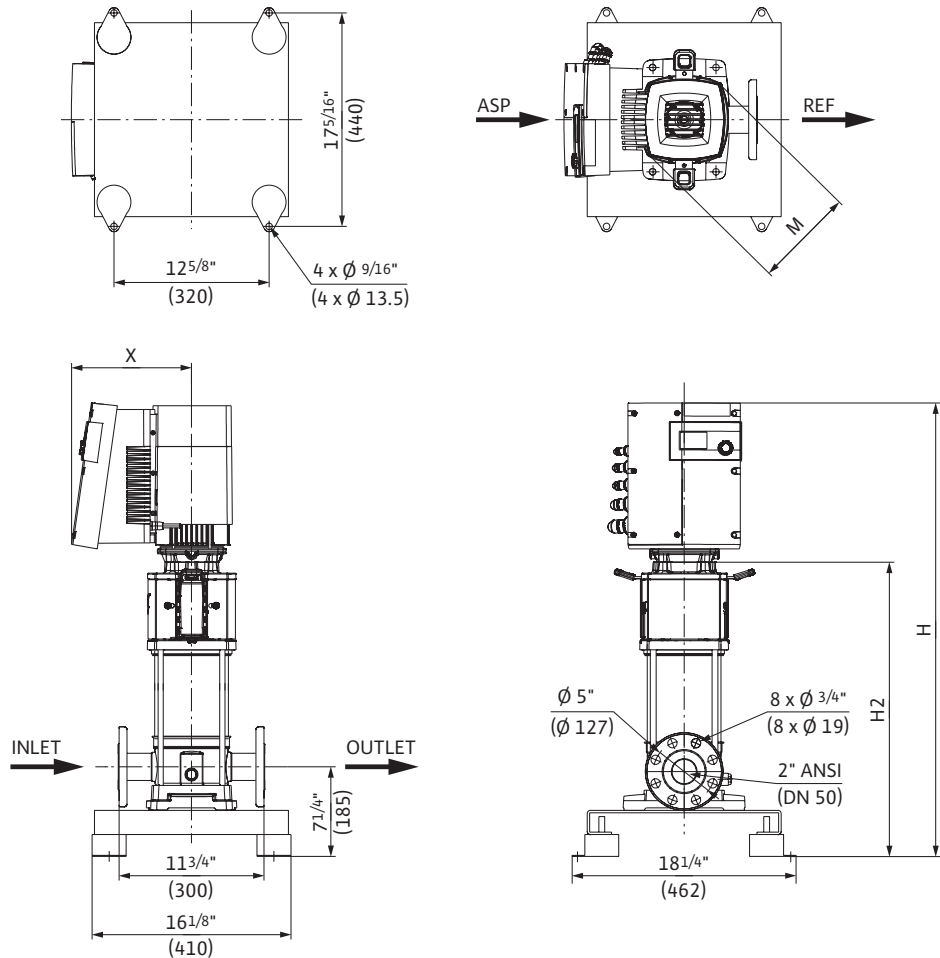
- | Applications | |
|--------------------|---------------------|
| • Water Supply | • Pressure Boosting |
| • Boiler Feed | • Cooling Systems |
| • Pressure washing | • Irrigation |

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Helix EXCEL 80-05 Dimensions & Weights

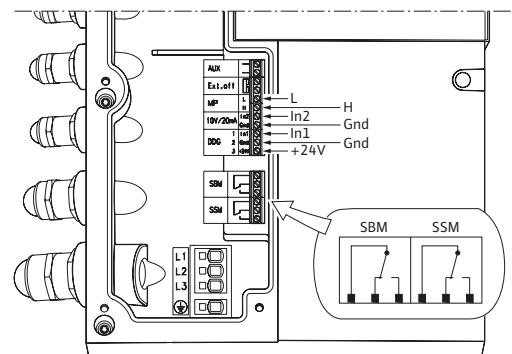


Dimensions and Weights

Model	Dimensions - Inches (mm)				Weight lbs (kg)
	H	H2	ϕM	X	
Helix EXCEL 80-05	$4\frac{9}{8}$	$32\frac{15}{16}$	$8\frac{3}{4}$	$10\frac{9}{16}$	187.4
	(1247)	(837)	(223)	(268)	(85)

EC Motor Data (Single Motor Operation)

Model	P_2 Rated	Phase	Voltage	FLA	Efficiency
	hp	[~]	[V]	[A]	η_m 100%
Helix EXCEL 80-05	7.4	3	460 ($\pm 10\%$)	8.2	95.8



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