

Submittal Data Sheet

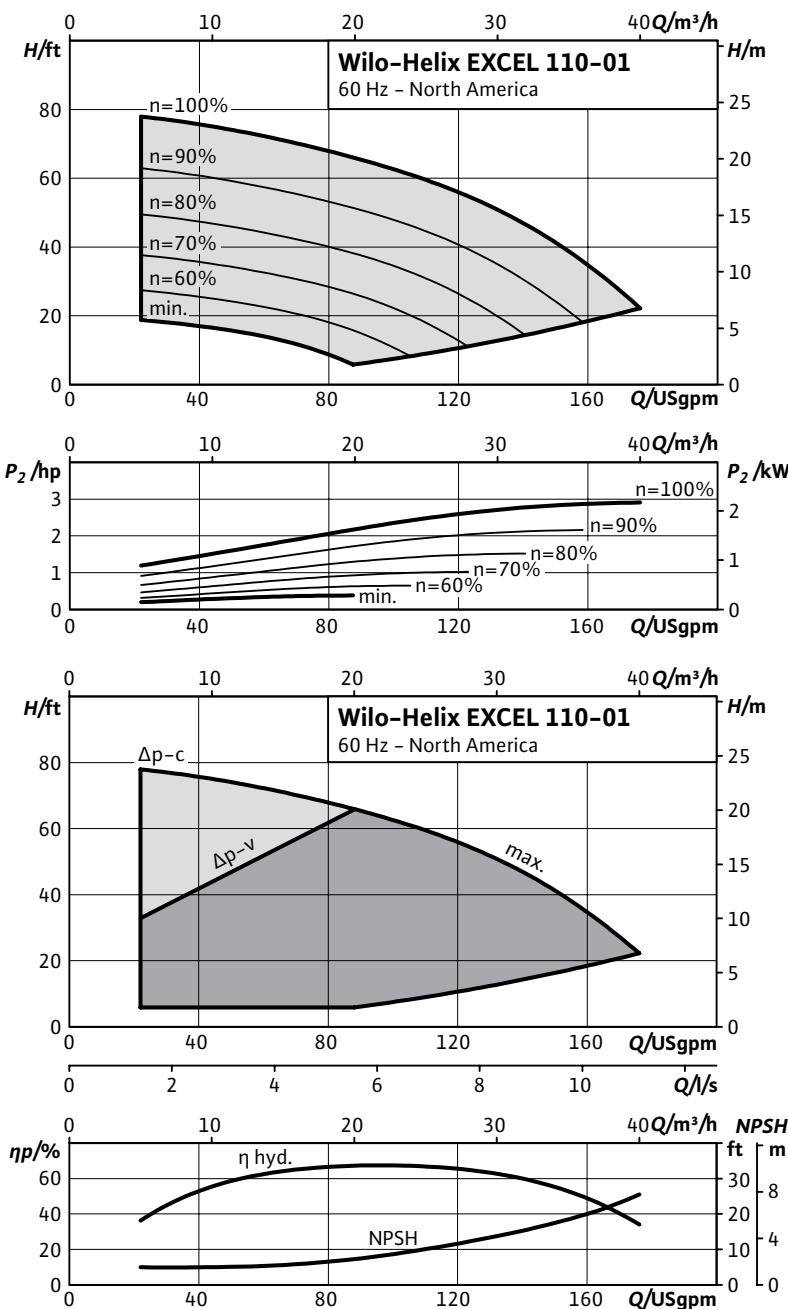
Multistage Pumps

Wilo-Helix EXCEL



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

Tag #	Model #	Flow	Head	Volute	Control Mode	HP	Phase	Voltage
	Helix EXCEL 110-01					3	3	460



Product Info

Brand	Wilo
Product Description	Helix Excel

Technical Data

PEI	0.67
Liquid Temp Range	-4 to 248 F (-20° 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 Constructions

Pump Volute	Cataphoresis-coated grey cast iron EN-GJL 250	Stainless steel AISI316L; rotating flanges of cataphoretic coated grey cast iron EN-GJL 250
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

IR Module

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

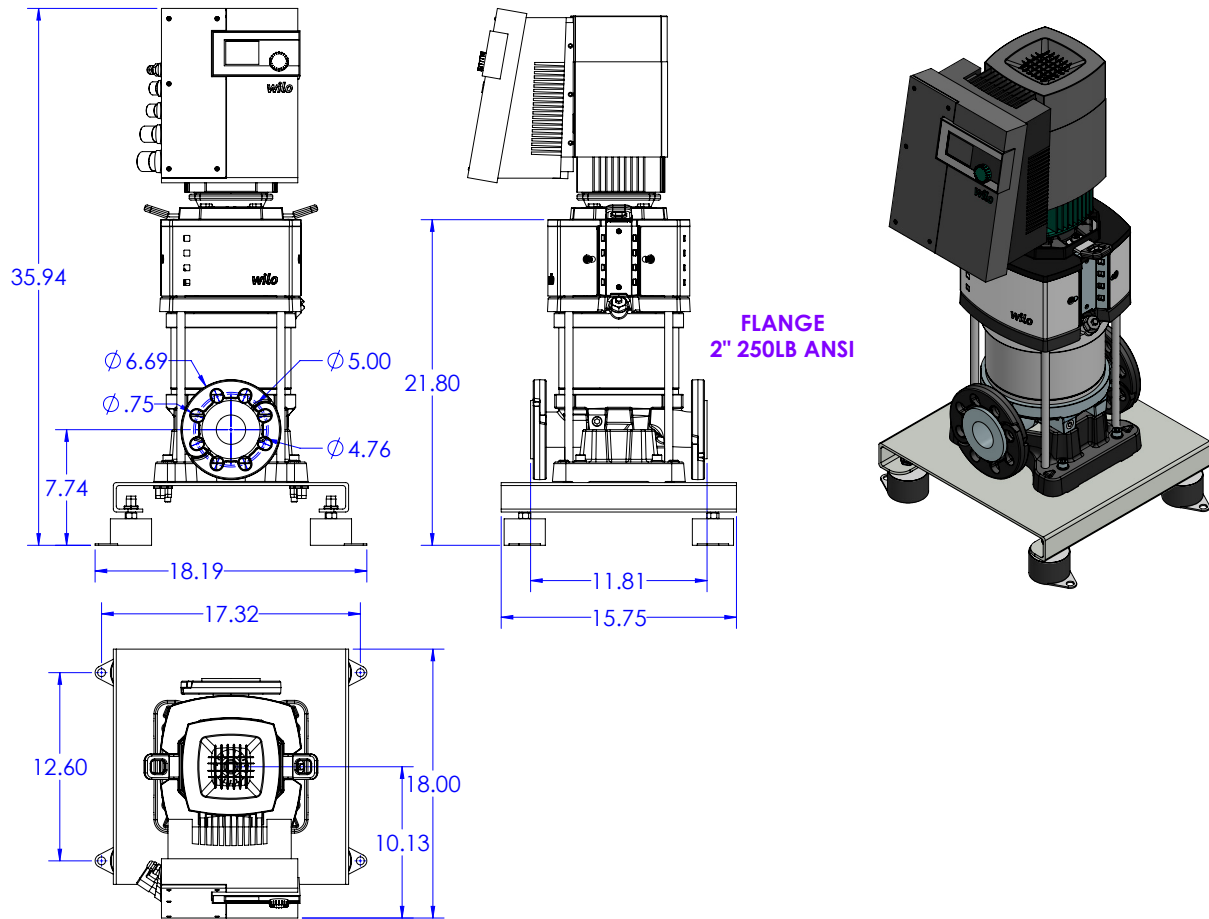
Applications

• Water Supply	• Pressure Boosting
• Boiler Feed	• Cooling Systems
• Pressure washing	• Irrigation

Submittal Data Sheet

Multistage Pumps

Wilo-Helix EXCEL

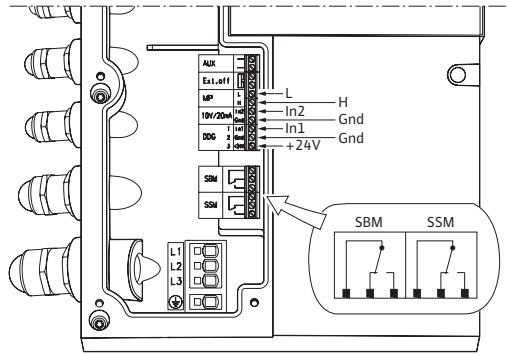


Dimensions and Weights

Model	Dimensions - Inches (mm)				Weight lbs (kg)
	H	H2	ØM	X	
Helix EXCEL 110-01	35 ^{15/16}	23 ^{1/16}	8 ^{3/8}	9 ^{3/4}	149.9
	(913)	(586)	(206)	(248)	(68)

EC Motor Data (Single Motor Operation)

Model	P ₂ Rated	Phase	Voltage	FLA	Efficiency
	hp	[~]	[V]	[A]	η _m 100%
Helix EXCEL 110-01	3.0	3	460 (±10%)	4.4	93.0



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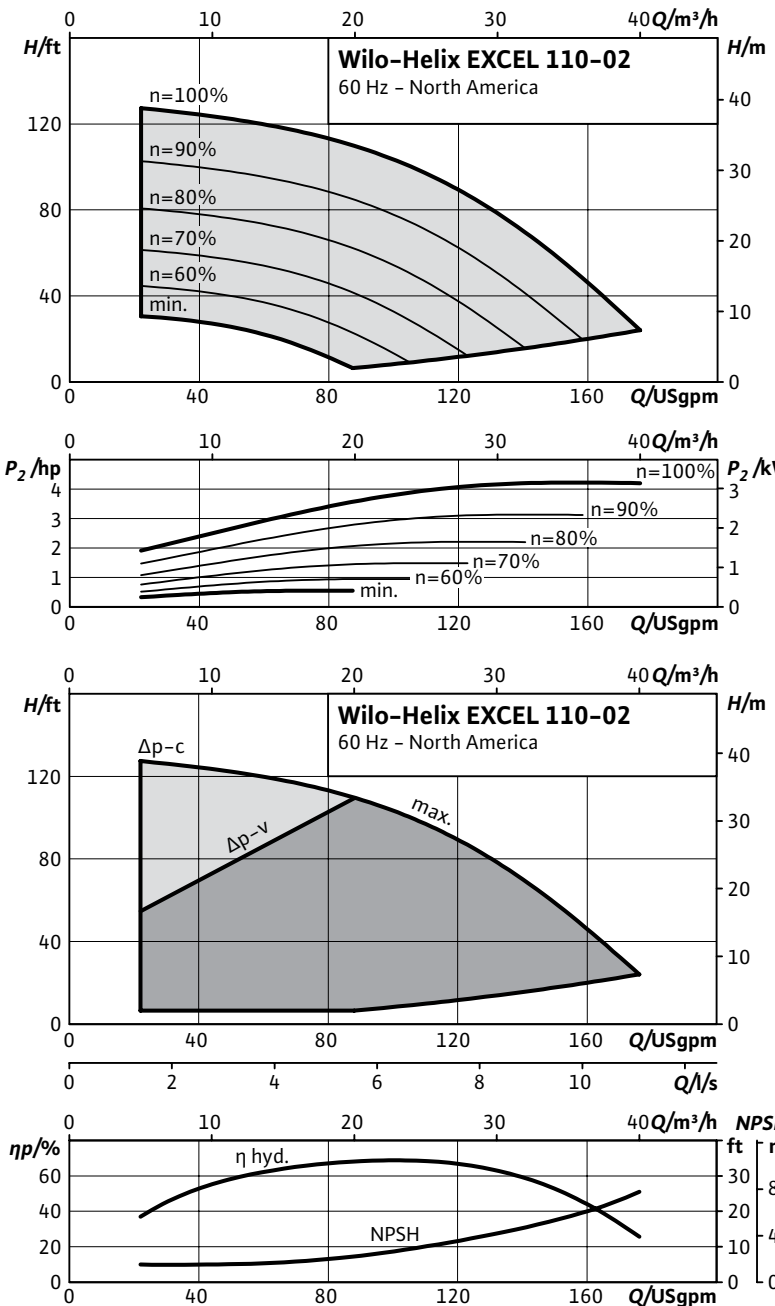
Multistage Pumps

Wilo-Helix EXCEL



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

Tag #	Model #	Flow	Head	Volute	Control Mode	HP	Phase	Voltage
	Helix EXCEL 110-02					4.3	3	460



Product Info

Brand	Wilo
Product Description	Helix Excel

Technical Data

PEI	0.58
Liquid Temp Range	-4 to 248 F (-20° 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 Constructions

Pump Volute	Cataphoresis-coated grey cast iron EN-GJL 250	Stainless steel AISI316L; rotating flanges of cataphoretic coated grey cast iron EN-GJL 250
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

IR Module

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

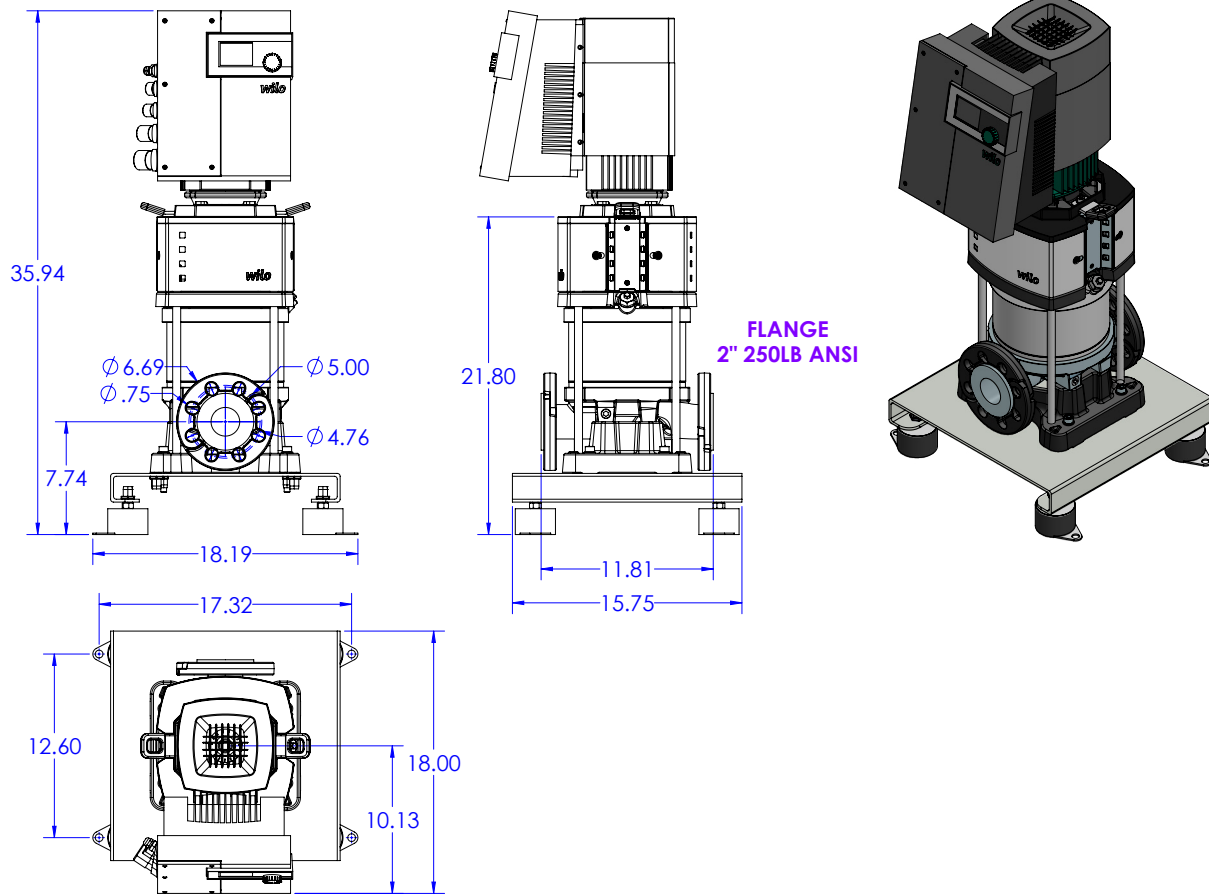
Applications

• Water Supply	• Pressure Boosting
• Boiler Feed	• Cooling Systems
• Pressure washing	• Irrigation

Submittal Data Sheet

Multistage Pumps

Wilo-Helix EXCEL

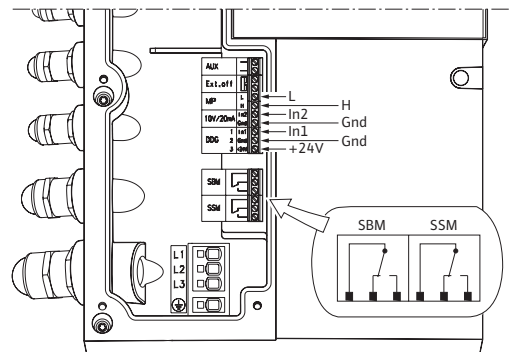


Dimensions and Weights

Model	Dimensions - Inches (mm)				Weight lbs (kg)
	H	H2	ØM	X	
Helix EXCEL 110-02	35 ^{15/16}	23 ^{1/16}	8 ^{3/8}	9 ^{3/4}	169.8
	(913)	(585)	(206)	(248)	(77)

EC Motor Data (Single Motor Operation)

Model	P ₂ Rated	Phase	Voltage	FLA	Efficiency
	hp	[~]	[V]	[A]	η _m 100%
Helix EXCEL 110-02	4.3	3	460 (±10%)	6	93.0



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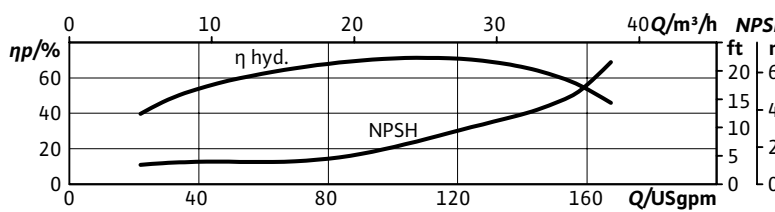
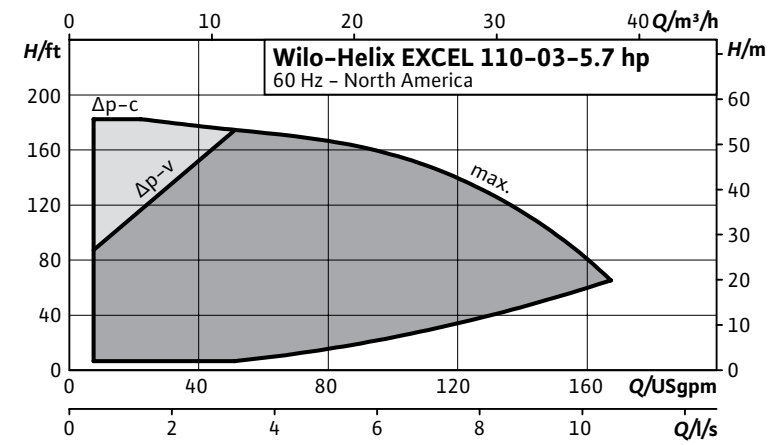
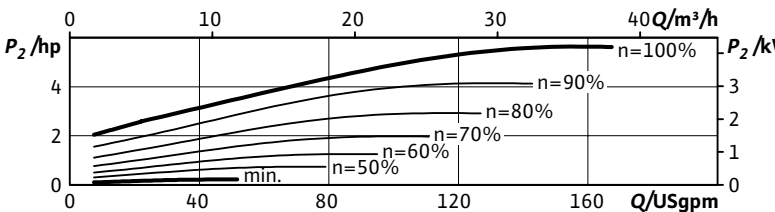
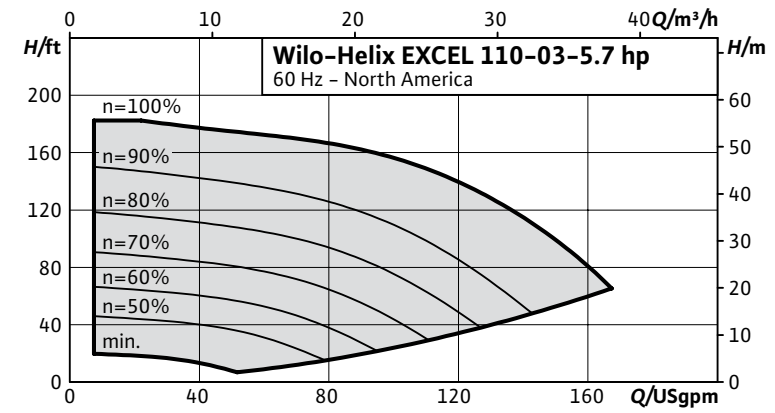
Multistage Pumps

Wilo-Helix EXCEL



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

Tag #	Model #	Flow	Head	Volute	Control Mode	HP	Phase	Voltage
	Helix EXCEL 110-03					5.7	3	460



Product Info

Brand	Wilo
Product Description	Helix Excel

Technical Data

PEI	0.42
Liquid Temp Range	-4 to 248 F (-20° 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 Constructions

Pump Volute	Cataphoresis-coated grey cast iron EN-GJL 250	Stainless steel AISI316L; rotating flanges of cataphoretic coated grey cast iron EN-GJL 250
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

IR Module

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

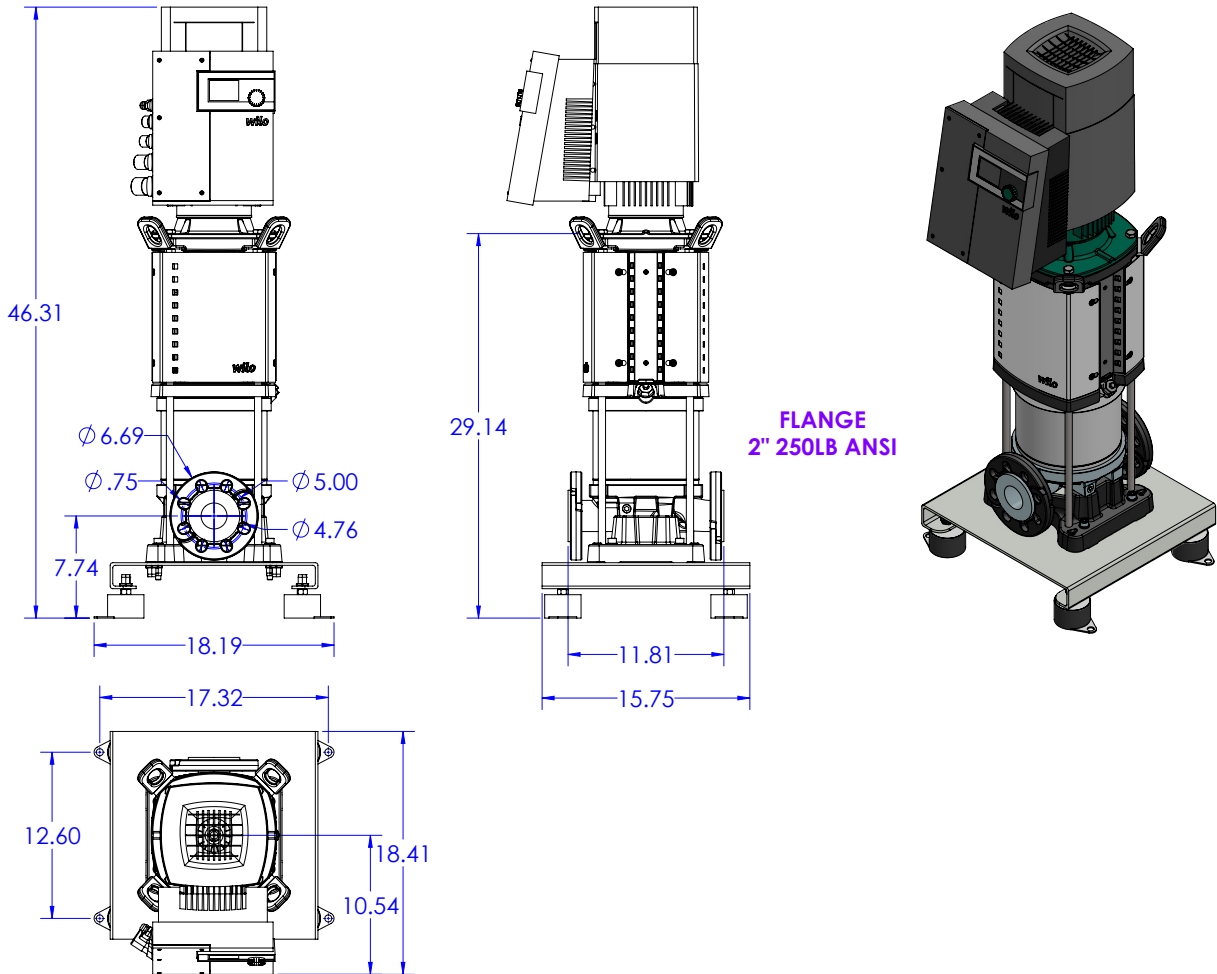
Applications

• Water Supply	• Pressure Boosting
• Boiler Feed	• Cooling Systems
• Pressure washing	• Irrigation

Submittal Data Sheet

Multistage Pumps

Wilo-Helix EXCEL

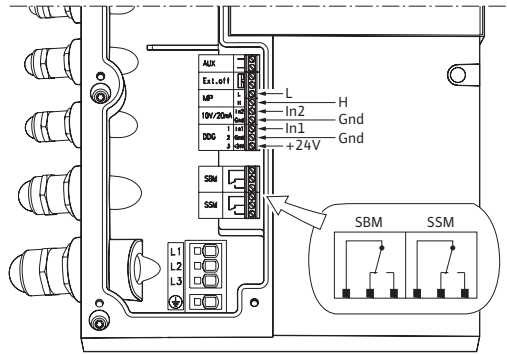


Dimensions and Weights

Model	Dimensions - Inches (mm)				Weight lbs (kg)
	H	H2	ØM	X	
Helix EXCEL 110-03-5.7	46 ^{5/16}	30 ^{3/16}	8 ^{3/4}	10 ^{9/16}	185.2
	(1176)	(766)	(223)	(268)	(84)

EC Motor Data (Single Motor Operation)

Model	P ₂ Rated	Phase	Voltage	FLA	Efficiency
	hp	[~]	[V]	[A]	η _m 100%
Helix EXCEL 110-03-5.7	5.7	3	460 (±10%)	6.5	95.8



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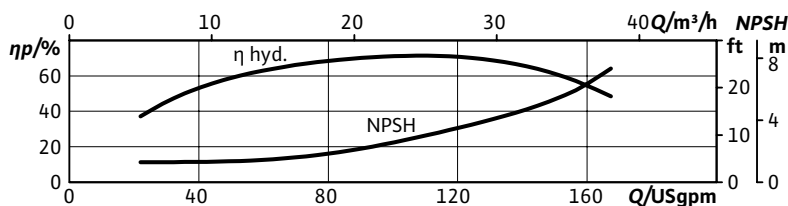
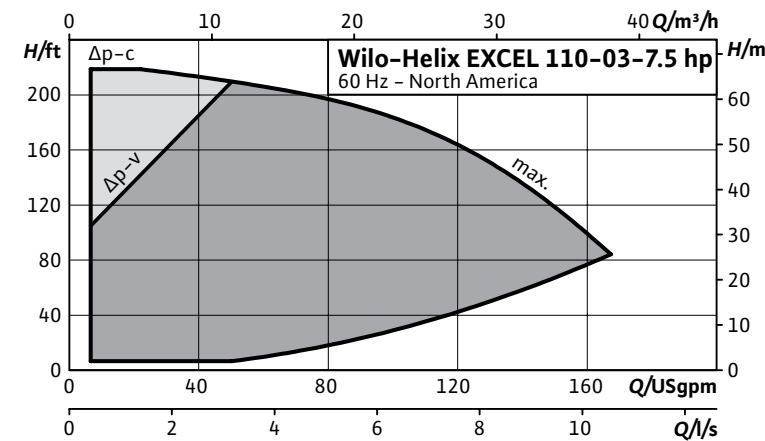
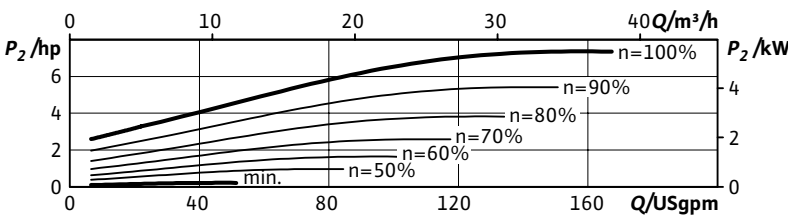
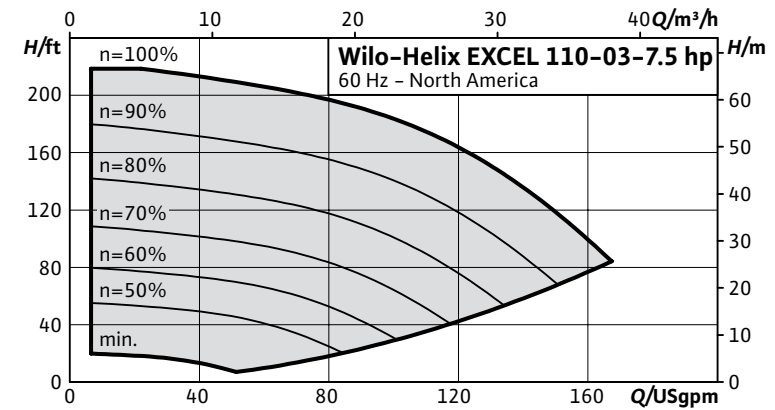
Multistage Pumps

Wilo-Helix EXCEL



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

Tag #	Model #	Flow	Head	Volute	Control Mode	HP	Phase	Voltage
	Helix EXCEL 110-03					7.5	3	460



Product Info

Brand	Wilo
Product Description	Helix Excel

Technical Data

PEI	0.46
Liquid Temp Range	-4 to 248 F (-20° 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 Constructions

Pump Volute	Cataphoresis-coated grey cast iron EN-GJL 250	Stainless steel AISI316L; rotating flanges of cataphoretic coated grey cast iron EN-GJL 250
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

IR Module

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

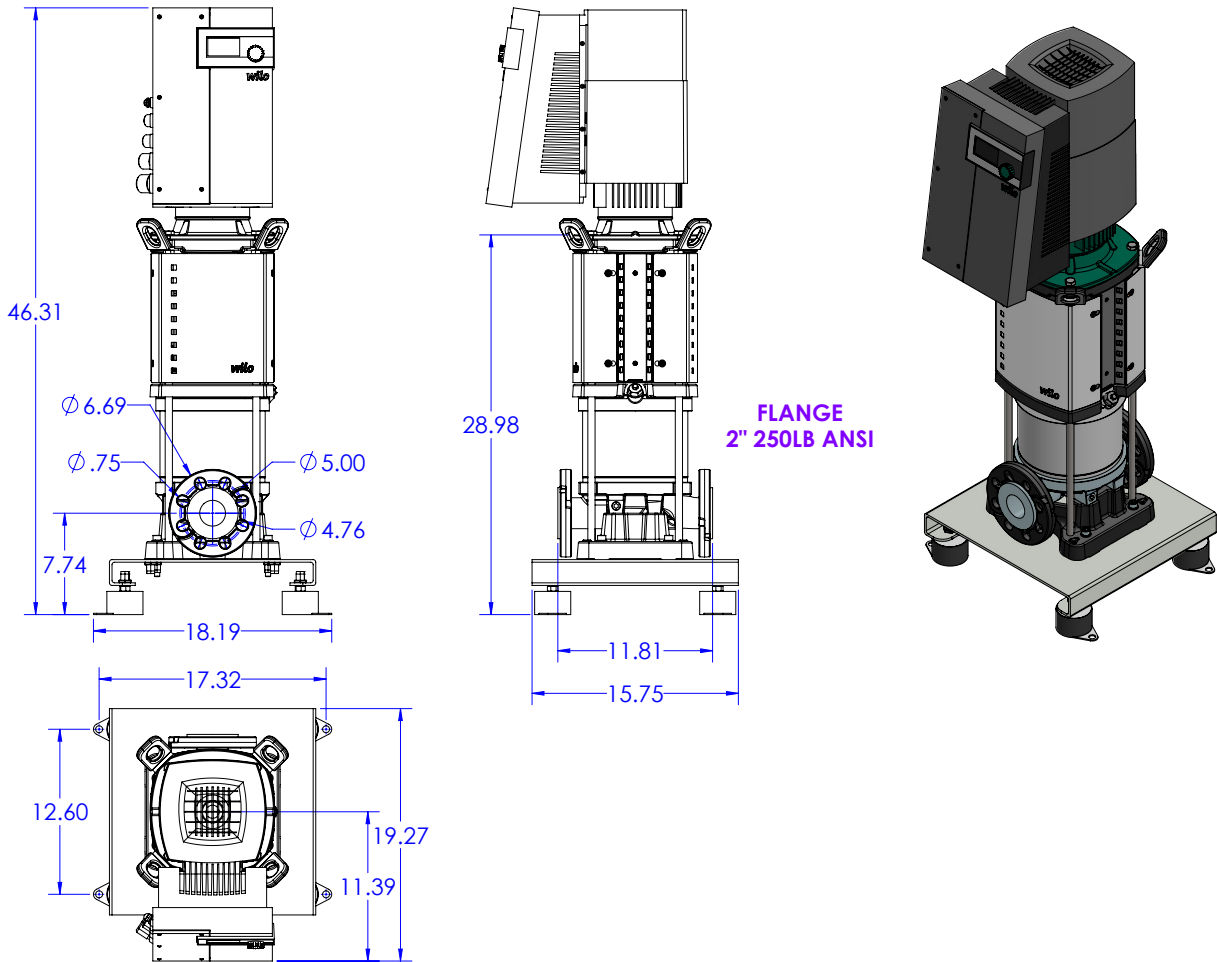
Applications

• Water Supply	• Pressure Boosting
• Boiler Feed	• Cooling Systems
• Pressure washing	• Irrigation

Submittal Data Sheet

Multistage Pumps

Wilo-Helix EXCEL

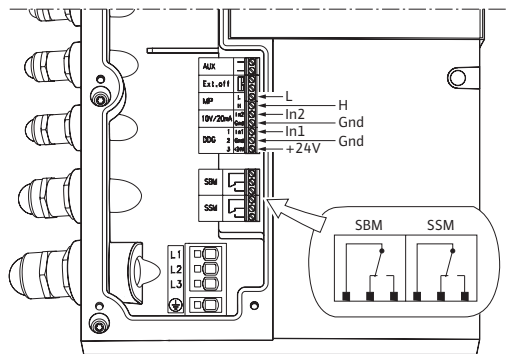


Dimensions and Weights

Model	Dimensions - Inches (mm)				Weight lbs (kg)
	H	H2	ØM	X	
Helix EXCEL 110-03-7.5	46 ^{5/16}	30 ^{3/16}	8 ^{3/4}	10 ^{9/16}	213.8
	(1176)	(766)	(223)	(268)	(97)

EC Motor Data (Single Motor Operation)

Model	P ₂ Rated	Phase	Voltage	FLA	Efficiency
	hp	[~]	[V]	[A]	η _m 100%
Helix EXCEL 110-03-7.5	7.5	3	460 (±10%)	8.2	95.8



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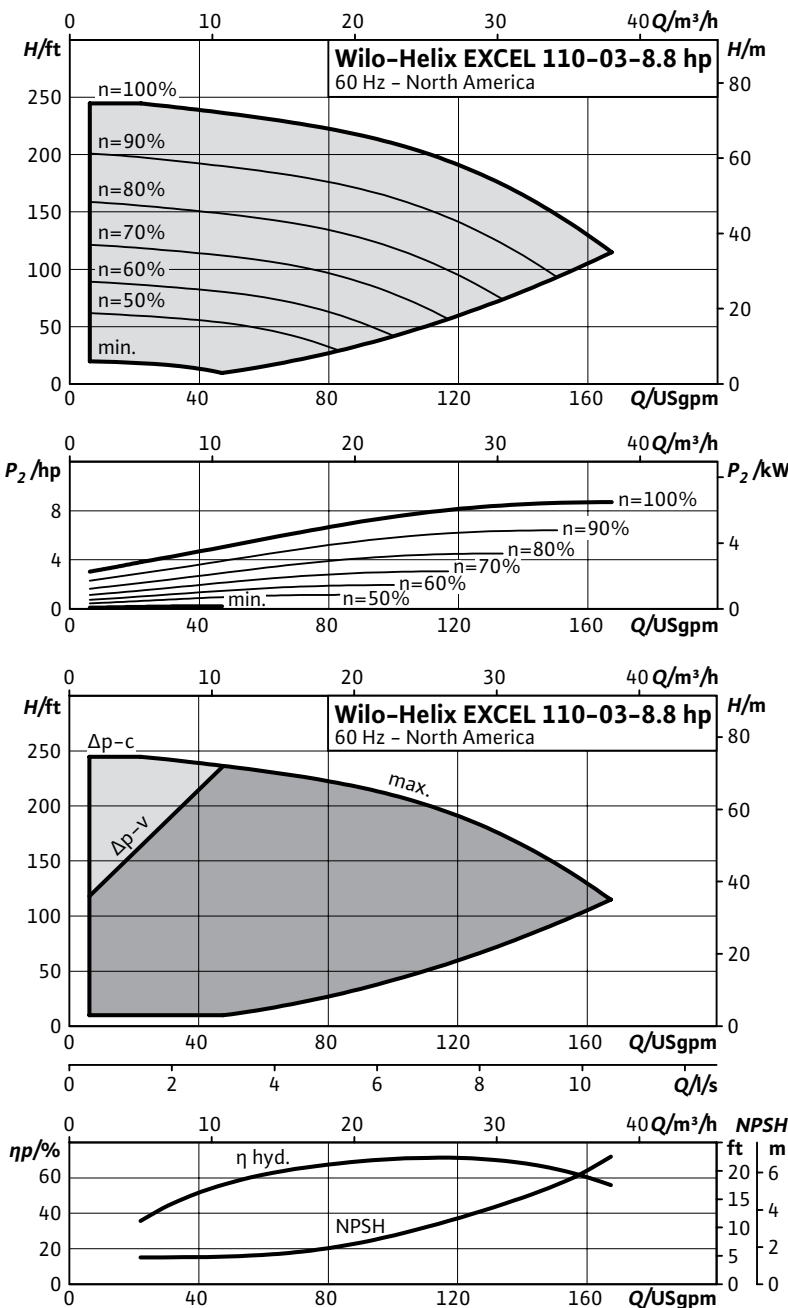
Multistage Pumps

Wilo-Helix EXCEL



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

Tag #	Model #	Flow	Head	Volute	Control Mode	HP	Phase	Voltage
	Helix EXCEL 110-03					8.8	3	460



Product Info

Brand	Wilo
Product Description	Helix Excel

Technical Data

PEI	0.46
Liquid Temp Range	-4 to 248 F (-20° 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 Constructions

Pump Volute	Cataphoresis-coated grey cast iron EN-GJL 250	Stainless steel AISI316L; rotating flanges of cataphoretic coated grey cast iron EN-GJL 250
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

IR Module

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

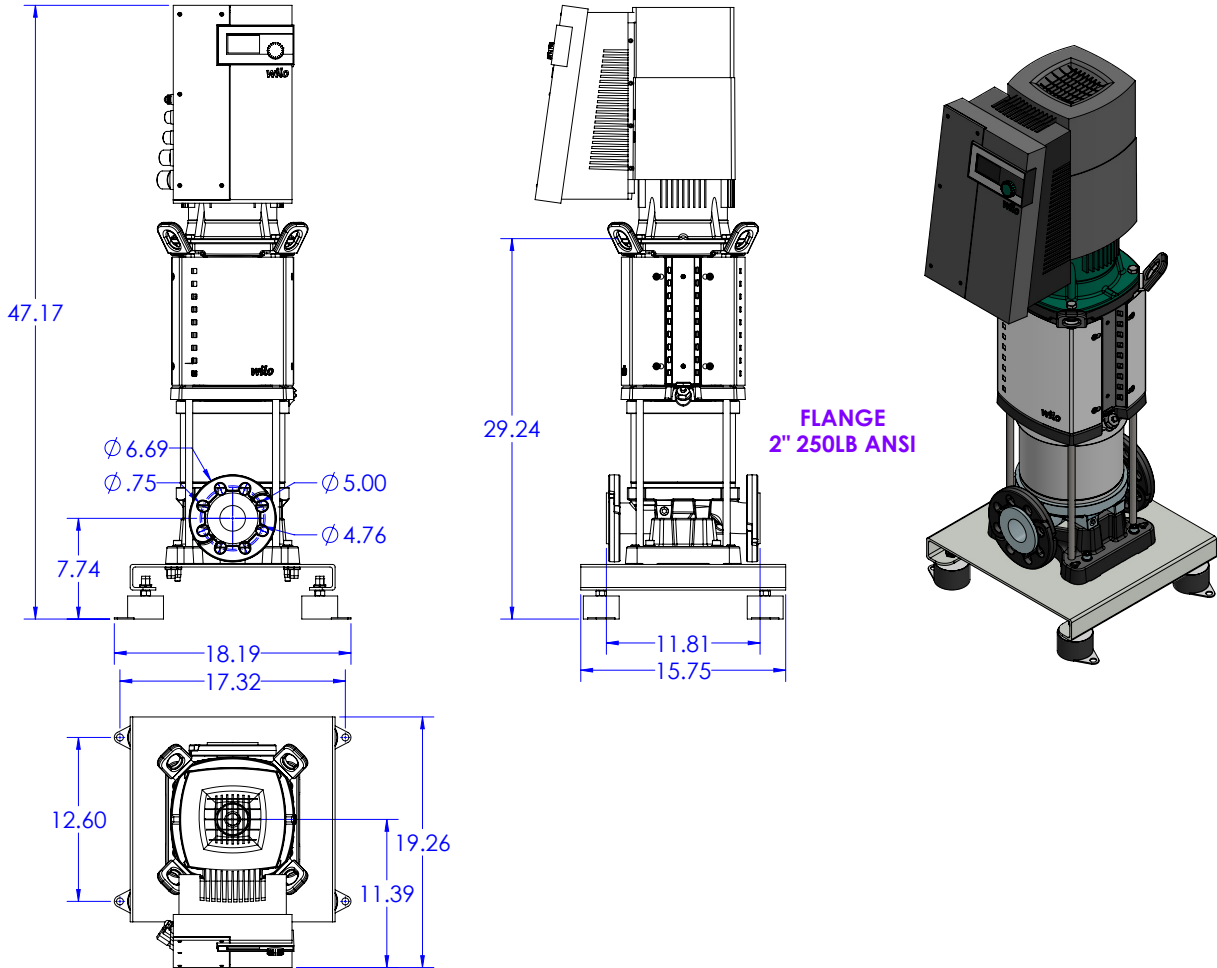
Applications

• Water Supply	• Pressure Boosting
• Boiler Feed	• Cooling Systems
• Pressure washing	• Irrigation

Submittal Data Sheet

Multistage Pumps

Wilo-Helix EXCEL

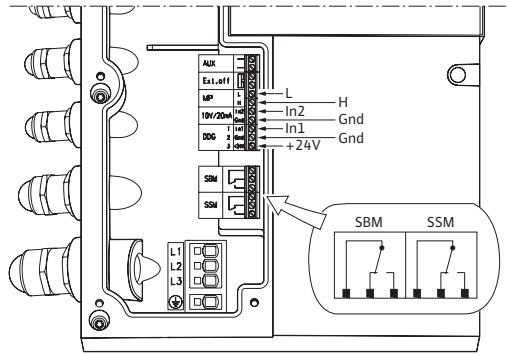


Dimensions and Weights

Model	Dimensions - Inches (mm)				Weight lbs (kg)
	H	H2	ØM	X	
Helix EXCEL 110-03-8.8	47 ^{1/16}	30	9 ^{3/4}	11	220.5
	(1195)	(762)	(248)	(280)	(100)

EC Motor Data (Single Motor Operation)

Model	P ₂ Rated	Phase	Voltage	FLA	Efficiency
	hp	[~]	[V]	[A]	η _m 100%
Helix EXCEL 110-03-8.8	8.8	3	460 (±10%)	9.7	96.5



Submittal Data Sheet

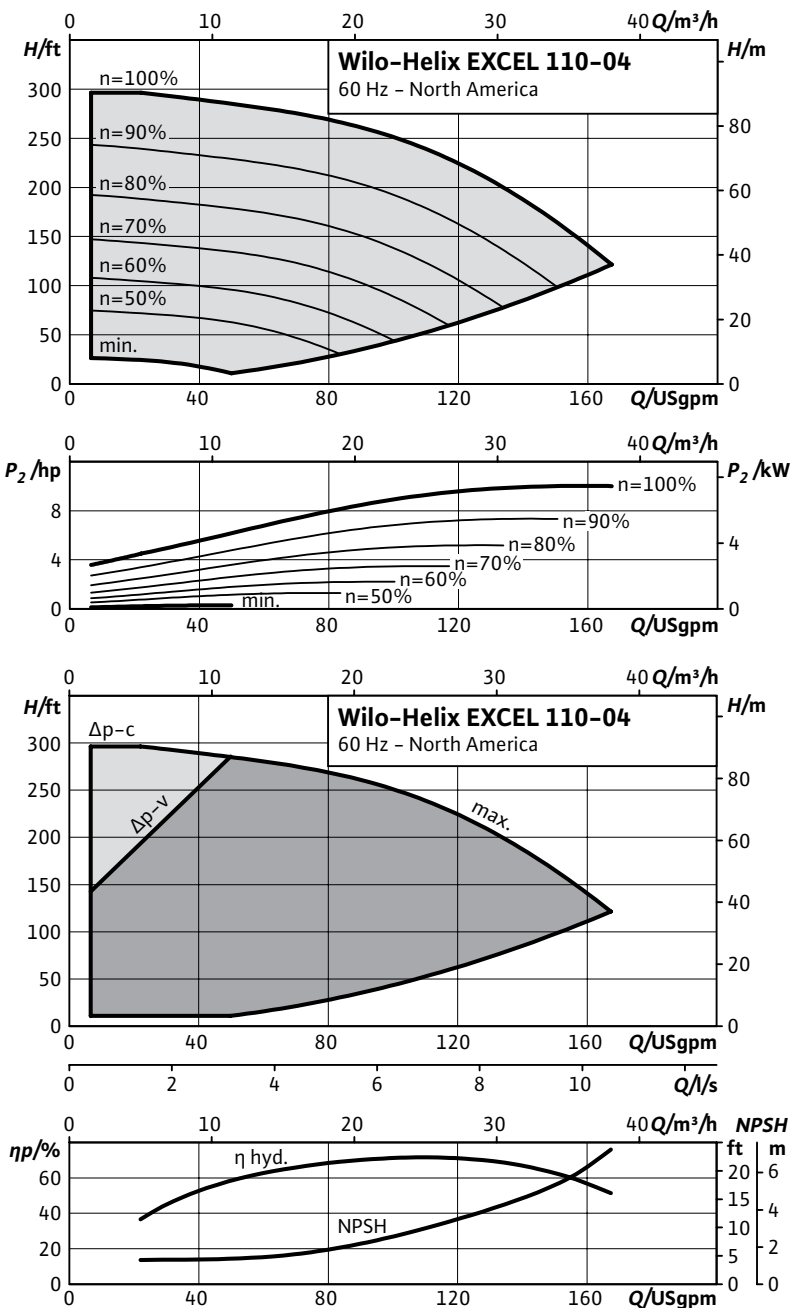
Multistage Pumps

Wilo-Helix EXCEL



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

Tag #	Model #	Flow	Head	Volute	Control Mode	HP	Phase	Voltage
	Helix EXCEL 110-04					10.1	3	460



Product Info

Brand	Wilo
Product Description	Helix Excel

Technical Data

PEI	0.44
Liquid Temp Range	-4 to 248 F (-20° 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 Constructions

Pump Volute	Cataphoresis-coated grey cast iron EN-GJL 250	Stainless steel AISI316L; rotating flanges of cataphoretic coated grey cast iron EN-GJL 250
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

IR Module

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

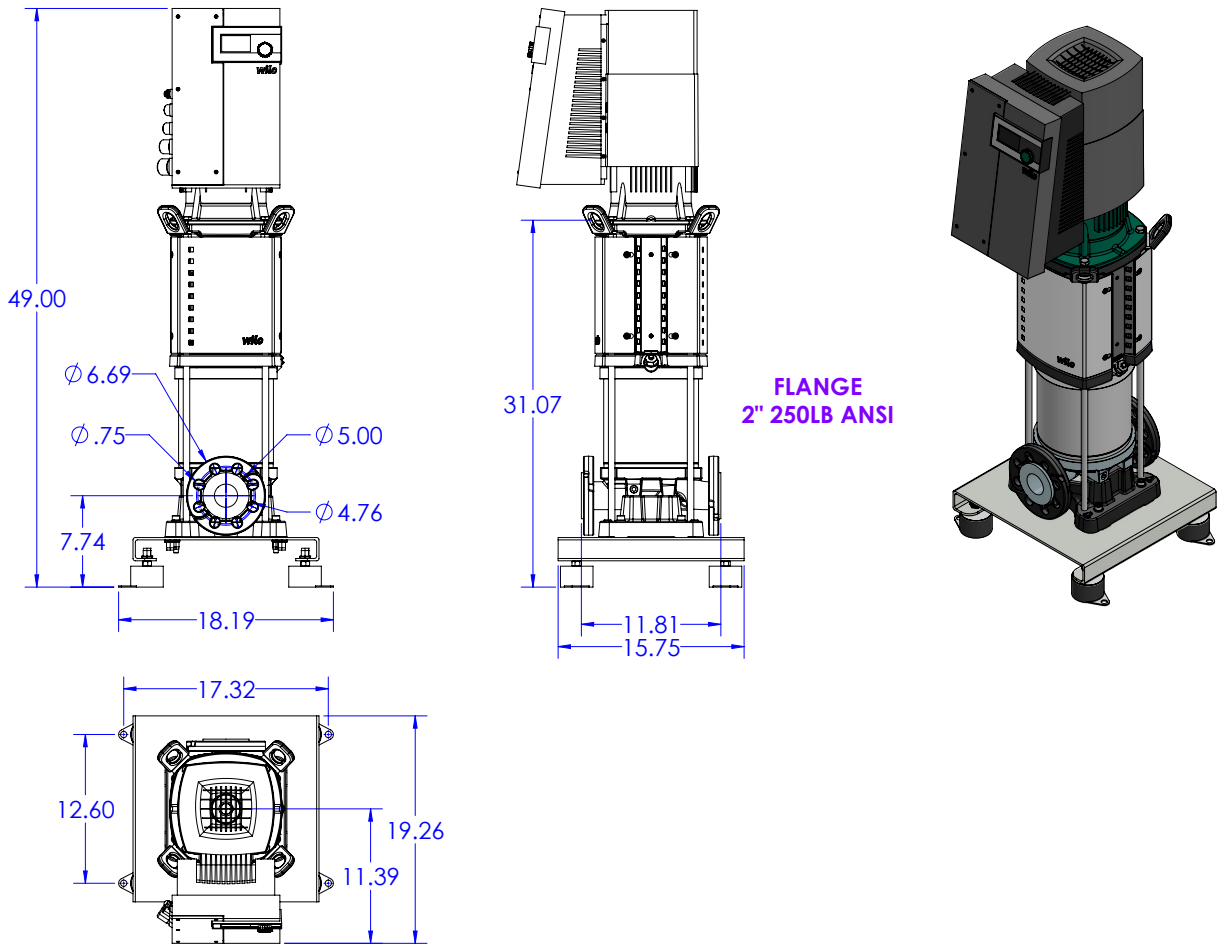
Applications

• Water Supply	• Pressure Boosting
• Boiler Feed	• Cooling Systems
• Pressure washing	• Irrigation

Submittal Data Sheet

Multistage Pumps

Wilo-Helix EXCEL



Dimensions and Weights

Model	Dimensions - Inches (mm)				Weight lbs (kg)
	H	H2	ØM	X	
Helix EXCEL 110-04	49	31 ^{15/16}	9 ^{3/4}	11	229.3
	(1245)	(812)	(248)	(280)	(104)

EC Motor Data (Single Motor Operation)

Model	P ₂ Rated	Phase	Voltage	FLA	Efficiency
	hp	[~]	[V]	[A]	η _m 100%
Helix EXCEL 110-04	10.1	3	460 (±10%)	10.9	96.4

