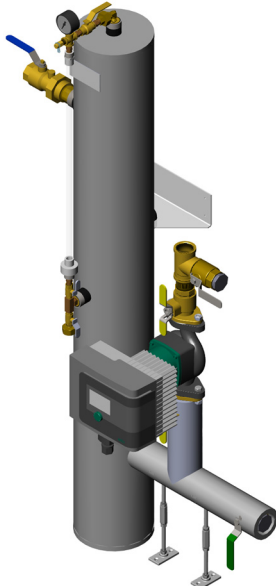


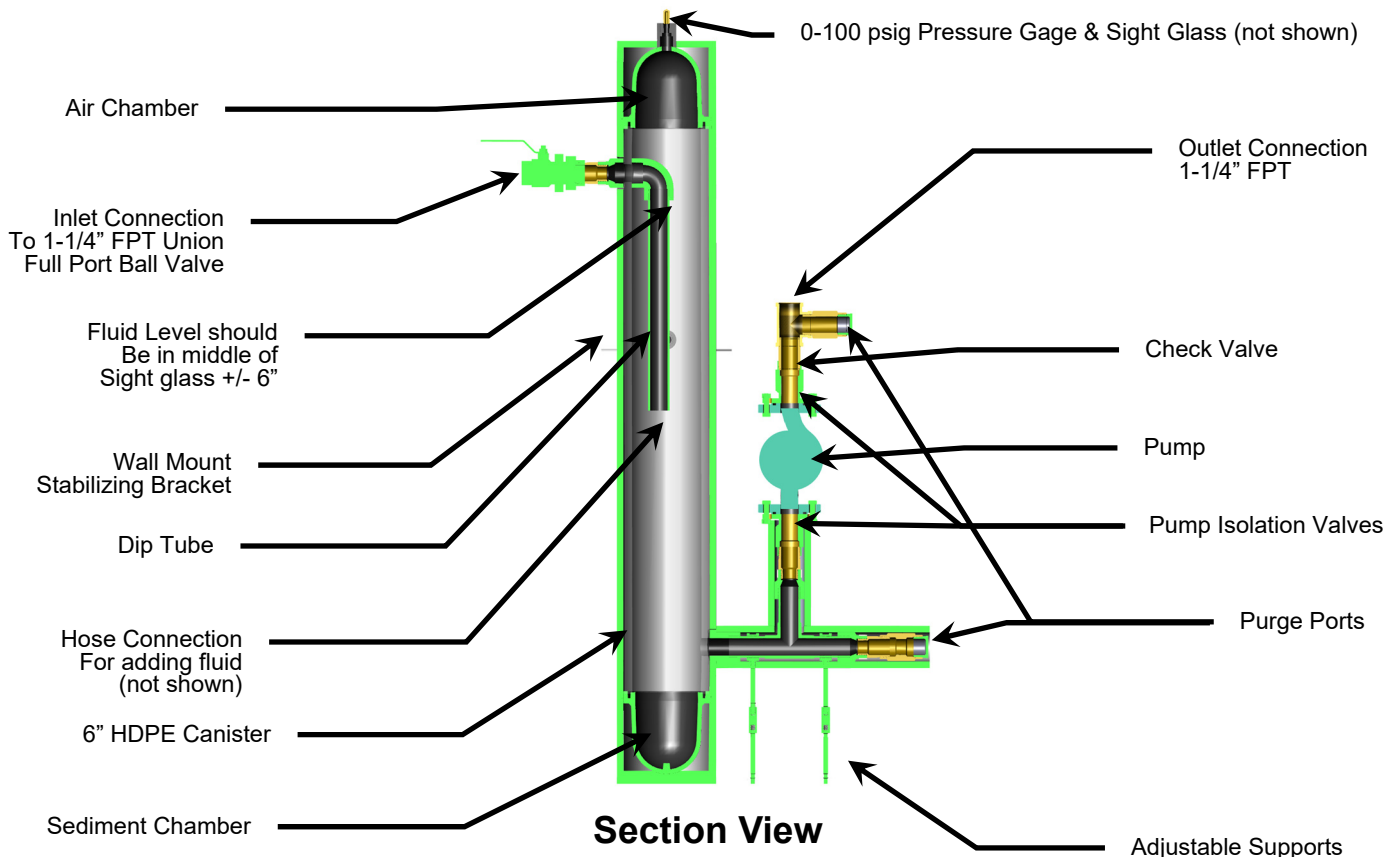
The GX series of flow centers operates like and with all the benefits of a non-pressurized flow center with added features, including the ability to operate at pressures up to 100 psig. Designed for use in multiple heat pump geothermal applications, properly installed, the GX is self-regulated, using the minimum power necessary for supplying the optimal flow rate to each running heat pump (regardless of size or proximity to flow center). Using the WILO MAXO Pump the GX captures the benefits of state-of-the-art ECM variable speed pump technology.

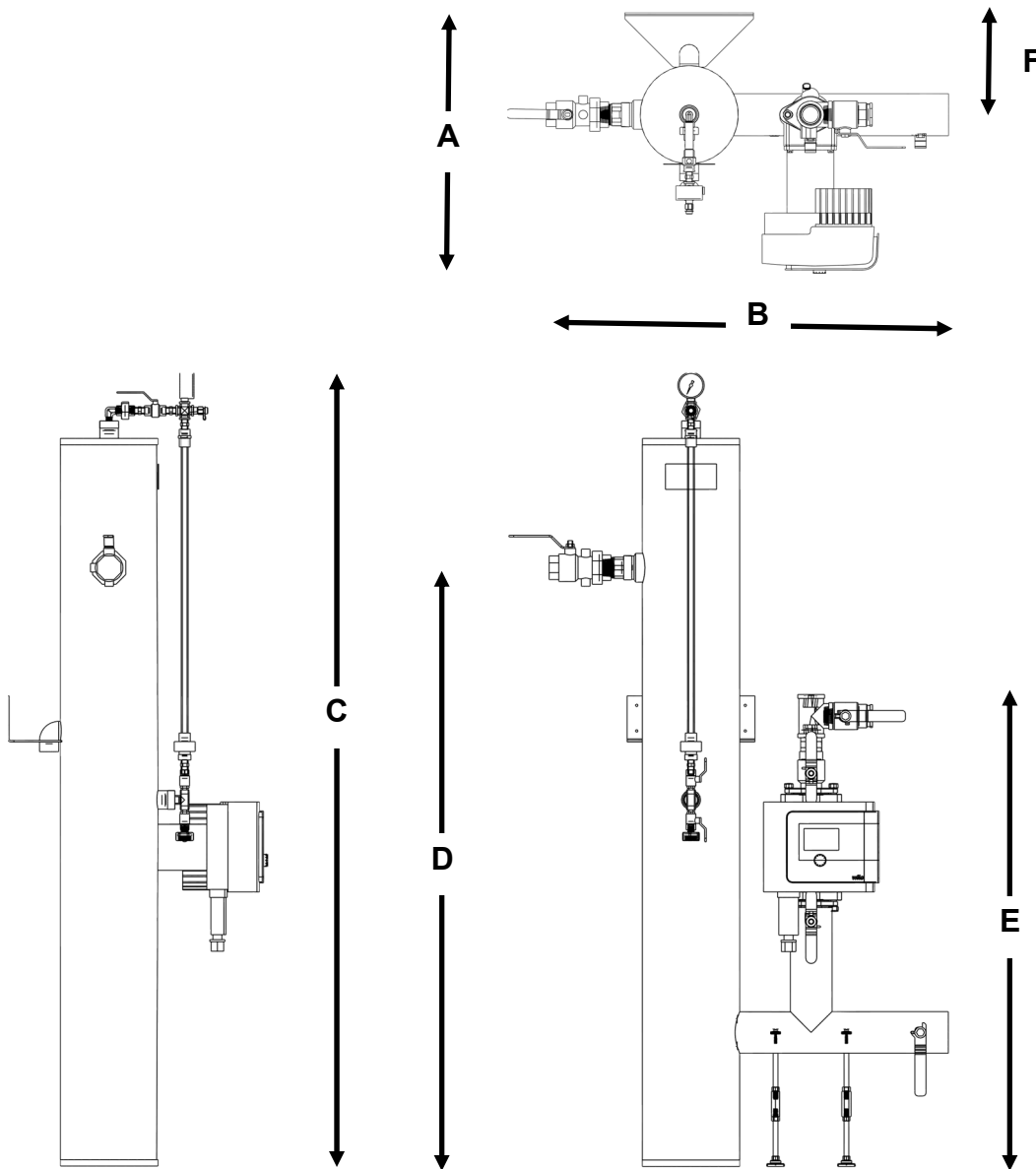


GX6AEB-11

Features:

- Electronically Commutated Motor (ECM) Variable Speed Pump Technology
- Lowest Energy Consumption per Ton of Heat Pump Capacity
- Available in 4 Configurations:
 - Basic - Single Pump
 - Dual - Two Pumps in Parallel (either Full or Partial Redundancy)
 - Primary/Secondary - Two Pumps (Primary for Loop Field & Secondary for Heat Pumps)
 - Dual Primary/Secondary - Four Pumps (Two Primary & Two Secondary)
- Non-Pressurized but capable of being pressurized Flow Center
- Sealed High-Density Polyethylene Insulated Canister
- Air Separation Chamber
- 0-100 psig pressure gauge
- Sight Glass to indicate proper fill level
- FPT Brass or Flanged Inlet & Outlet Connections
- Stabilizing Wall Mounting Bracket
- Purge Ports and hose bib connection for Easy Fill & Maintenance
- GV Zone Monitor (GVZM) Accessory, a cost-effective way to further reduce energy consumption by disabling pump when no heat pumps are running
- Engineering Support for system design
- 3 Year Limited Warranty





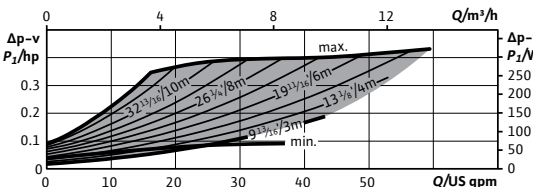
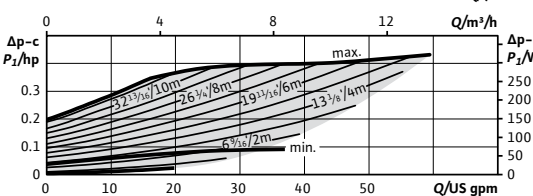
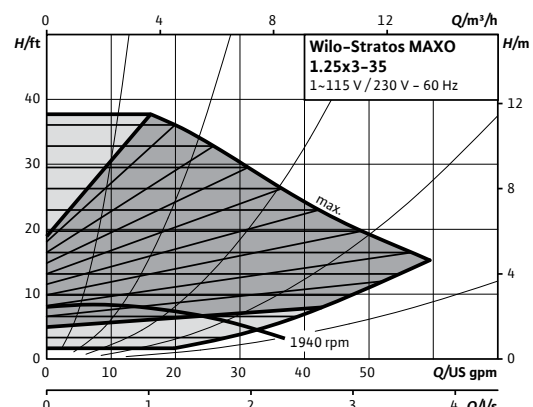
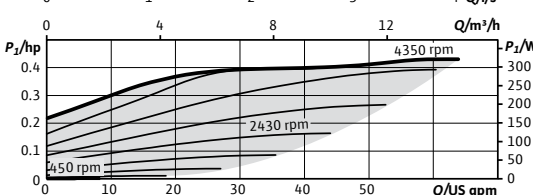
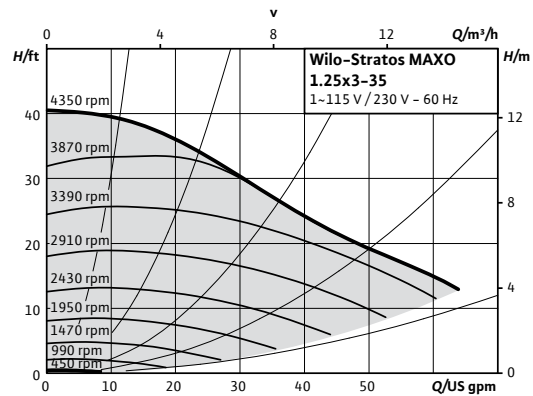
		ft - in	mm
A	Depth	1' 8 1/8"	512
B	Width	2' 7 1/4"	794
C	Height	5' 2 1/8"	1579
D	Inlet Height	3' 10 7/8"	1190
E	Outlet Height	3' 7/8"	938
F	Centerline from wall	0' 7 7/8"	199
	Inlet Connection	1-1/4" FPT	
	Outlet Connection	1-1/4" FPT	
	Purge Port Connection	1-1/4" FPT	

Wilo-Stratos MAXO



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

Tag #	Model #	Flow	Head	Control Mode	Cycle	Phase	Voltage
	Maxo 1.25x3-35				60Hz	1~	115/230-240V



Product Info

Brand	Wilo
Product Description	Stratos MAXO 1.25x3-35
Article Number	2164610
Net Weight (approx.)	34 lbs

Hydraulic Data

Max Operating Pressure PN	145 PSI
Min. Suction Head (122°F)	4.3 PSI
Min. Suction Head (203°F)	14.2 PSI
Min. Suction Head (230°F)	22.8 PSI
Min. Fluid Temp.	14°F
Max Fluid Temp.	230°F
Min. Ambient Temp	14°F
Max. Ambient Temp	104°F

CIF Module Selection

- BACnet MS/TP
- Modbus RTU
- CANopen
- LON TP/FT-10
- PLR

Accessory Selection

- Immersion Temp. Sensor Pt 1000 AA
- Immersion Sleeve G 1/2", 45mm
- Pipe Surface Contact Sensor PT 1000 B
- Immersion Sleeve G 1/2", 100mm

Materials

Pump Housing	EN-GJL-250
Impeller	PPS-GF40
Shaft	X30Cr13
Bearing	Carbon, antimony-impregnated

Motor Data

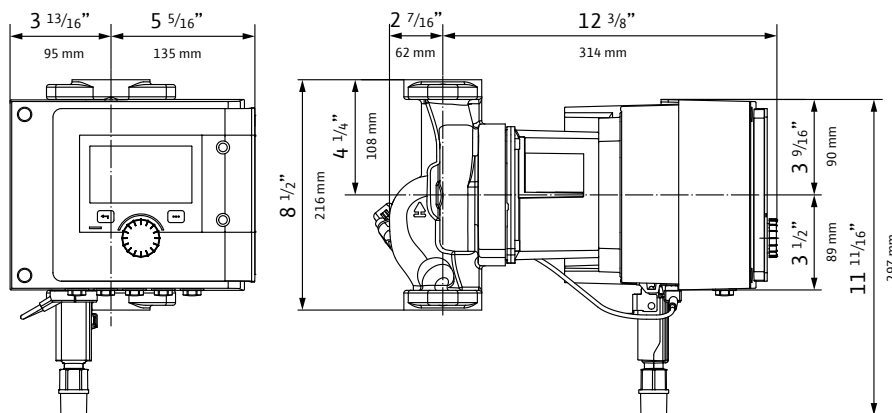
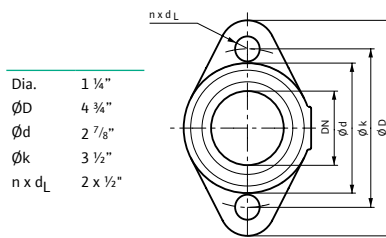
Mains Connection	1-115V ±10%, 50/60Hz 1-230-240V ±10%, 50/60Hz
Motor Type	ECM
Rated Power P ₂	0.354 hp
Min. Speed n _{min}	450 RPM
Max. Speed n _{max}	4350 RPM
Power Consumption P _{3,max}	0.433 hp
Power Consumption P _{1,min}	0.013 hp
Max Current (1-230V) I _{max}	1.38 A
Min Current (1-230V) I _{min}	0.15 A
Max Current (1-115V) I _{max}	2.83 A
Min Current (1-115V) I _{min}	0.15 A
Insulation Class	F
Protection Class	Enclosure 2

Electrical Inputs

Analog Inputs (2x)	0-10V / 0-20mA / 4-20mA / PT 1000 Passive/Active +24V DC
Digital Inputs (2x)	Ext Off / Ext Min / Ext Max / Ext. MANUAL (BMS off) / External Key Lock / Switch heating, cooling
Wilo NET	Multi-Pump Communication
SSM	Fault Signal
SBM	Run Signal

Installation Dimensions

Pipe Connection (discharge)	1 1/4"
Pipe Connection (suction)	1 1/4"
Flange to Flange	8 1/2"

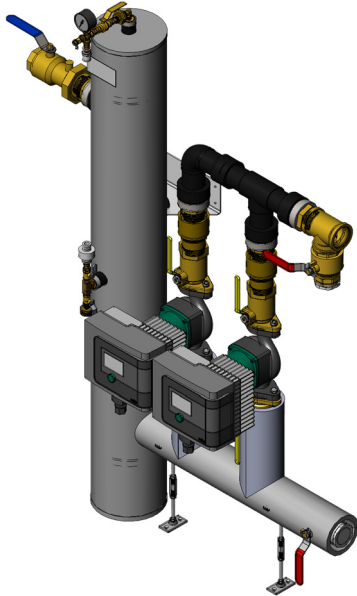


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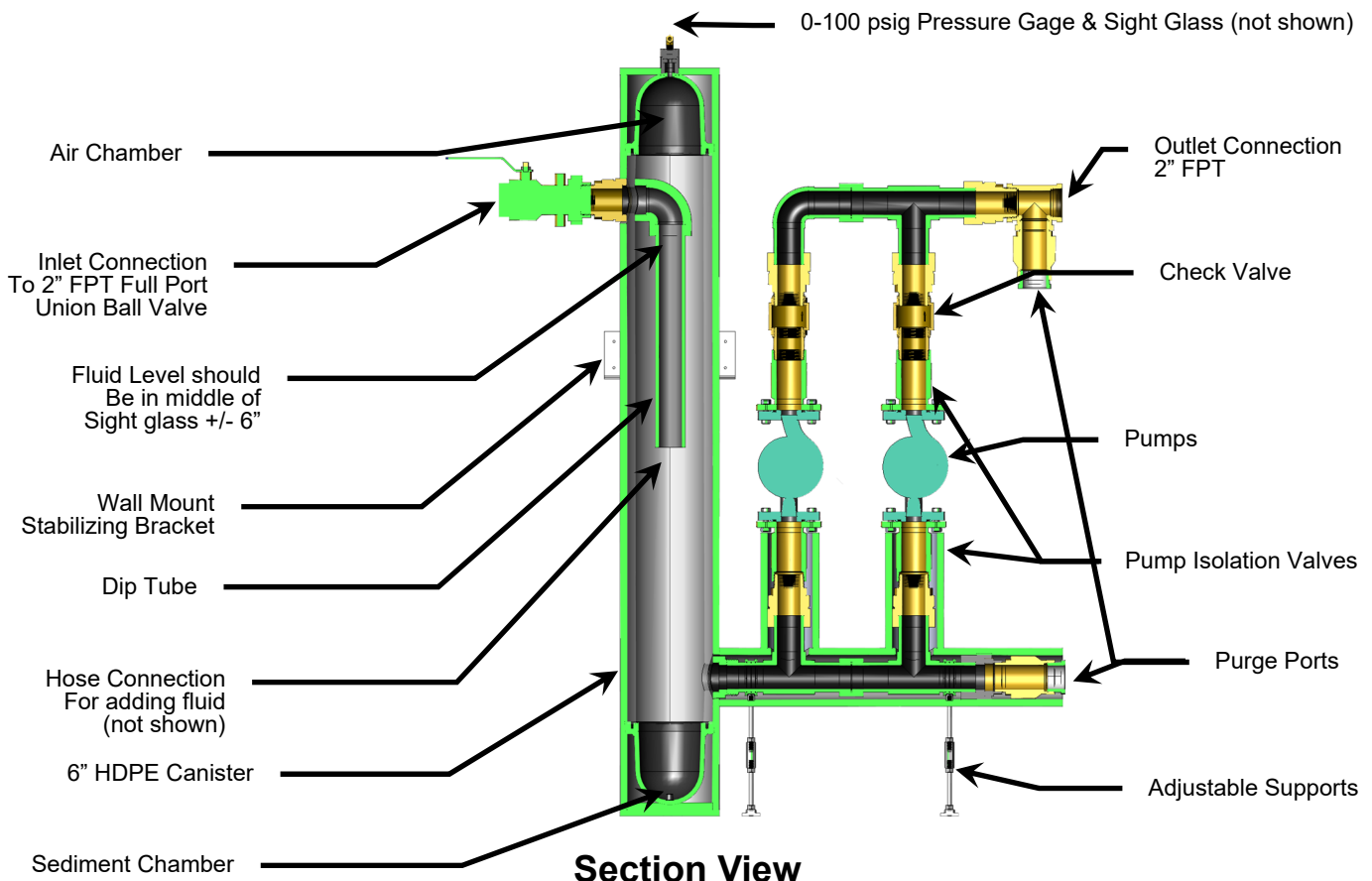
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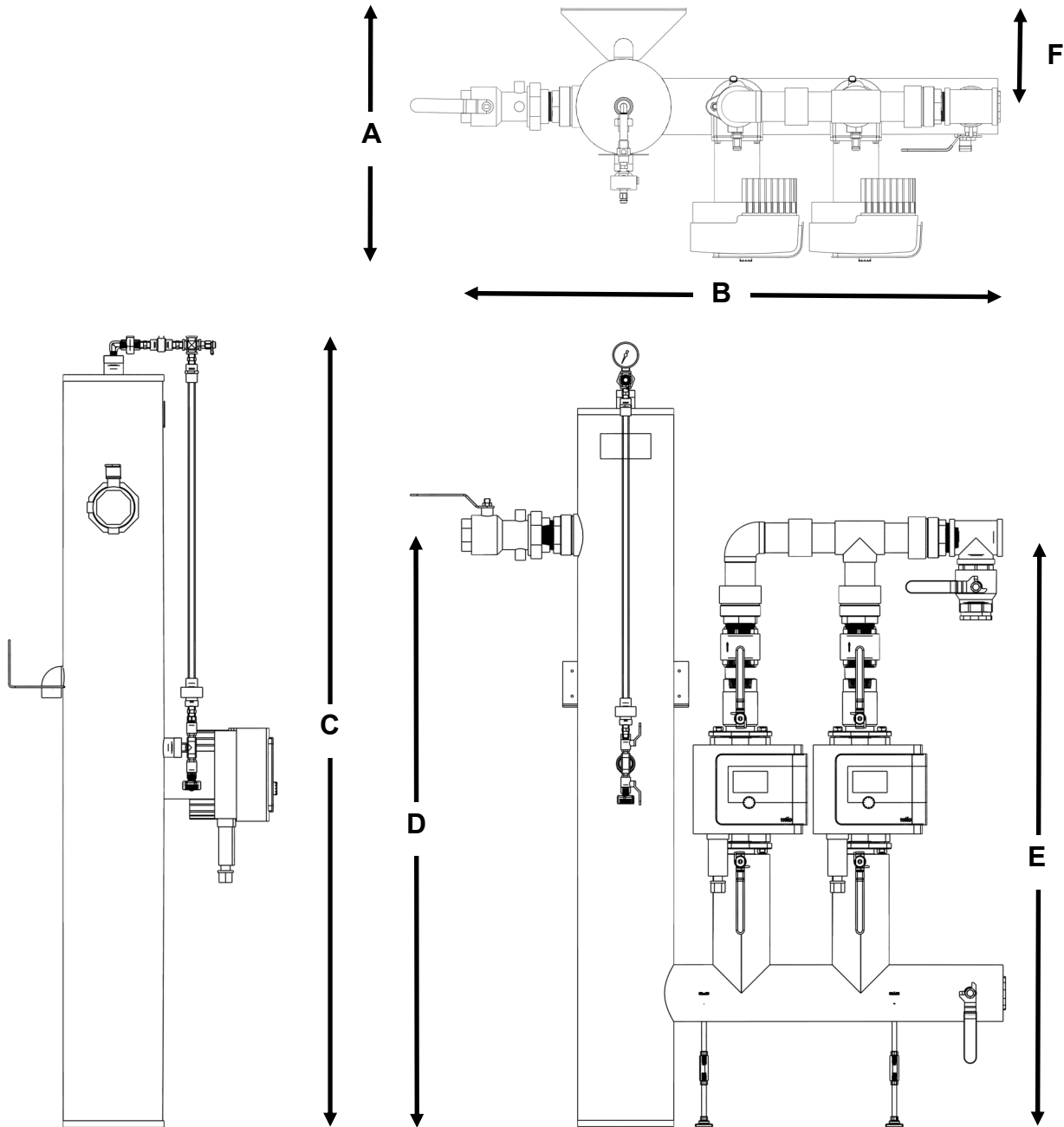


GX6AED-22

Features:

- Electronically Commutated Motor (ECM) Variable Speed Pump Technology
- Lowest Energy Consumption per Ton of Heat Pump Capacity
- Available in 4 Configurations:
 - Basic - Single Pump
 - Dual - Two Pumps in Parallel (either Full or Partial Redundancy)
 - Primary/Secondary - Two Pumps (Primary for Loop Field & Secondary for Heat Pumps)
 - Dual Primary/Secondary - Four Pumps (Two Primary & Two Secondary)
- Non-Pressurized but capable of being pressurized Flow Center
- Sealed High-Density Polyethylene Insulated Canister
- Air Separation Chamber
- 0-100 psig pressure gauge
- Sight Glass to indicate proper fill level
- FPT Brass or Flanged Inlet & Outlet Connections
- Stabilizing Wall Mounting Bracket
- Purge Ports and hose bib connection for Easy Fill & Maintenance
- GV Zone Monitor (GVZM) Accessory, a cost-effective way to further reduce energy consumption by disabling pump when no heat pumps are running
- Engineering Support for system design
- 3 Year Limited Warranty





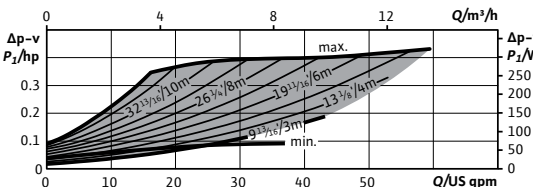
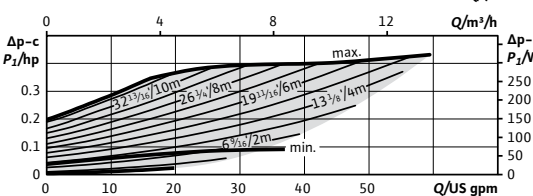
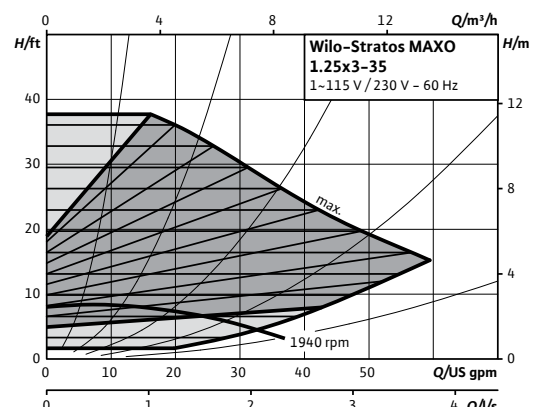
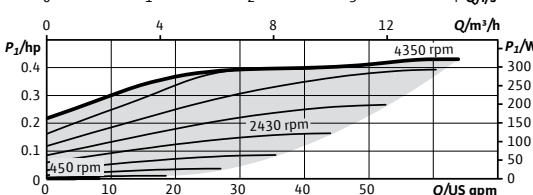
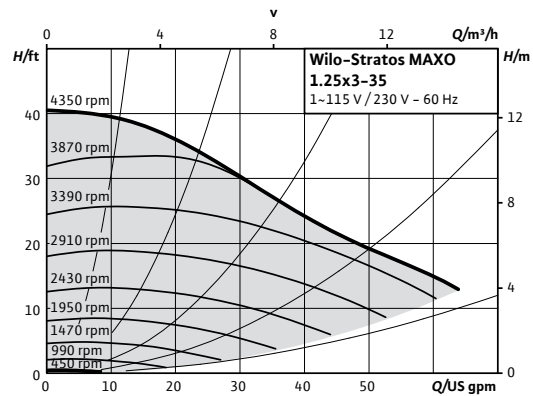
		ft - in	mm
A	Depth	1' 8 1/4"	515
B	Width	3' 7 1/8"	1097
C	Height	5' 0 1/4"	1582
D	Inlet Height	4' 11"	1193
E	Outlet Height	4' 10 3/4"	1187
F	Centerline from wall	0' 7 7/8"	201
	Inlet Connection	2" FPT	
	Outlet Connection	2" FPT	
	Purge Port Connection	2" FPT	

Wilo-Stratos MAXO



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

Tag #	Model #	Flow	Head	Control Mode	Cycle	Phase	Voltage
	Maxo 1.25x3-35				60Hz	1~	115/230-240V



Product Info

Brand	Wilo
Product Description	Stratos MAXO 1.25x3-35
Article Number	2164610
Net Weight (approx.)	34 lbs

Hydraulic Data

Max Operating Pressure PN	145 PSI
Min. Suction Head (122°F)	4.3 PSI
Min. Suction Head (203°F)	14.2 PSI
Min. Suction Head (230°F)	22.8 PSI
Min. Fluid Temp.	14°F
Max Fluid Temp.	230°F
Min. Ambient Temp	14°F
Max. Ambient Temp	104°F

CIF Module Selection

BACnet MS/TP
Modbus RTU
CANopen
LON TP/FT-10
PLR

Accessory Selection

Immersion Temp. Sensor Pt 1000 AA
Immersion Sleeve G 1/2", 45mm
Pipe Surface Contact Sensor PT 1000 B
Immersion Sleeve G 1/2", 100mm

Materials

Pump Housing	EN-GJL-250
Impeller	PPS-GF40
Shaft	X30Cr13
Bearing	Carbon, antimony-impregnated

Motor Data

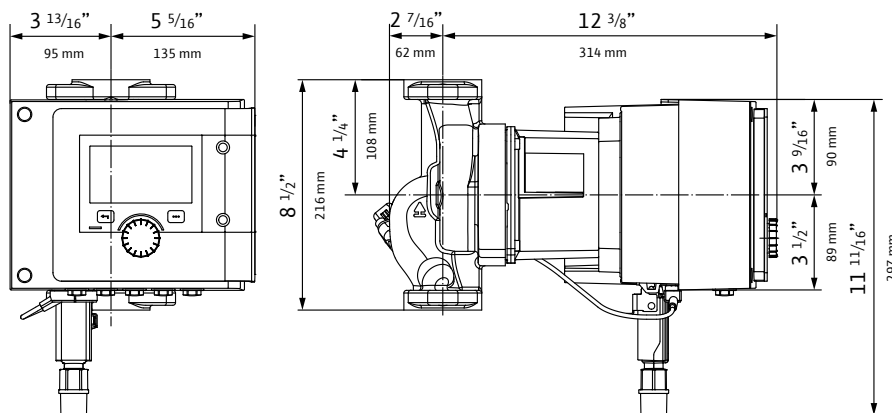
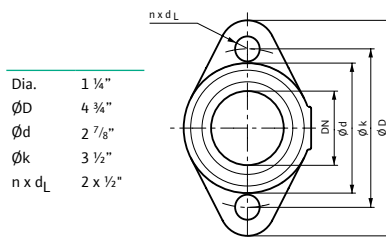
Mains Connection	1-115V ±10%, 50/60Hz 1-230-240V ±10%, 50/60Hz
Motor Type	ECM
Rated Power P ₂	0.354 hp
Min. Speed n _{min}	450 RPM
Max. Speed n _{max}	4350 RPM
Power Consumption P _{3,max}	0.433 hp
Power Consumption P _{1,min}	0.013 hp
Max Current (1-230V) I _{max}	1.38 A
Min Current (1-230V) I _{min}	0.15 A
Max Current (1-115V) I _{max}	2.83 A
Min Current (1-115V) I _{min}	0.15 A
Insulation Class	F
Protection Class	Enclosure 2

Electrical Inputs

Analog Inputs (2x)	0-10V / 0-20mA / 4-20mA / PT 1000 Passive/Active +24V DC
Digital Inputs (2x)	Ext Off / Ext Min / Ext Max / Ext. MANUAL (BMS off) / External Key Lock / Switch heating, cooling
Wilo NET	Multi-Pump Communication
SSM	Fault Signal
SBM	Run Signal

Installation Dimensions

Pipe Connection (discharge)	1 1/4"
Pipe Connection (suction)	1 1/4"
Flange to Flange	8 1/2"

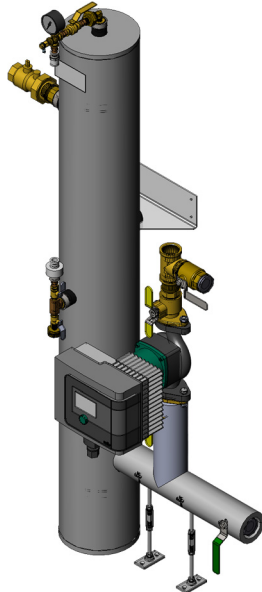


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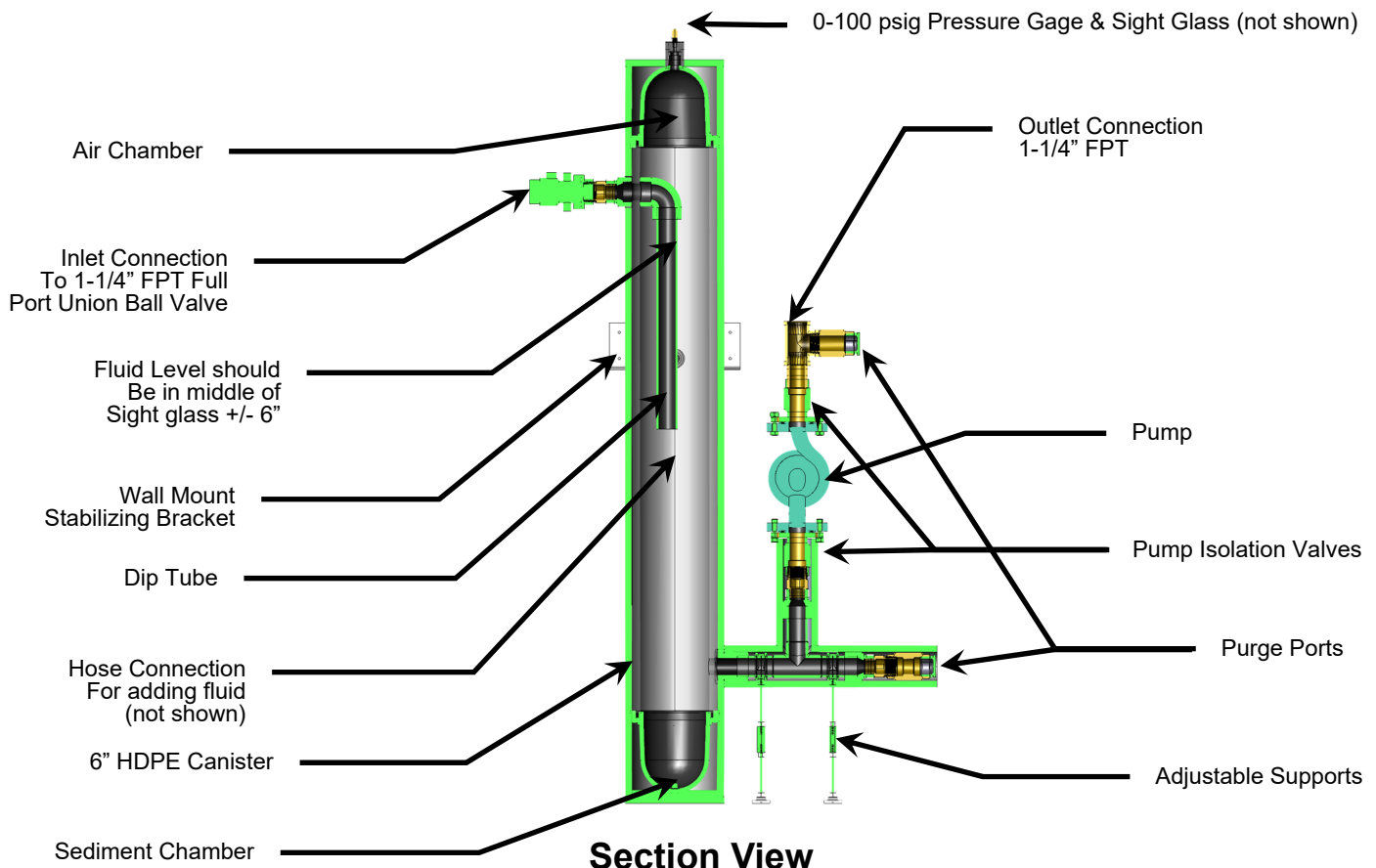
The GX series of flow centers operates like and with all the benefits of a non-pressurized flow center with added features, including the ability to operate at pressures up to 100 psig. Designed for use in multiple heat pump geothermal applications, properly installed, the GX is self-regulated, using the minimum power necessary for supplying the optimal flow rate to each running heat pump (regardless of size or proximity to flow center). Using the WILO MAXO Pump the GX captures the benefits of state-of-the-art ECM variable speed pump technology.

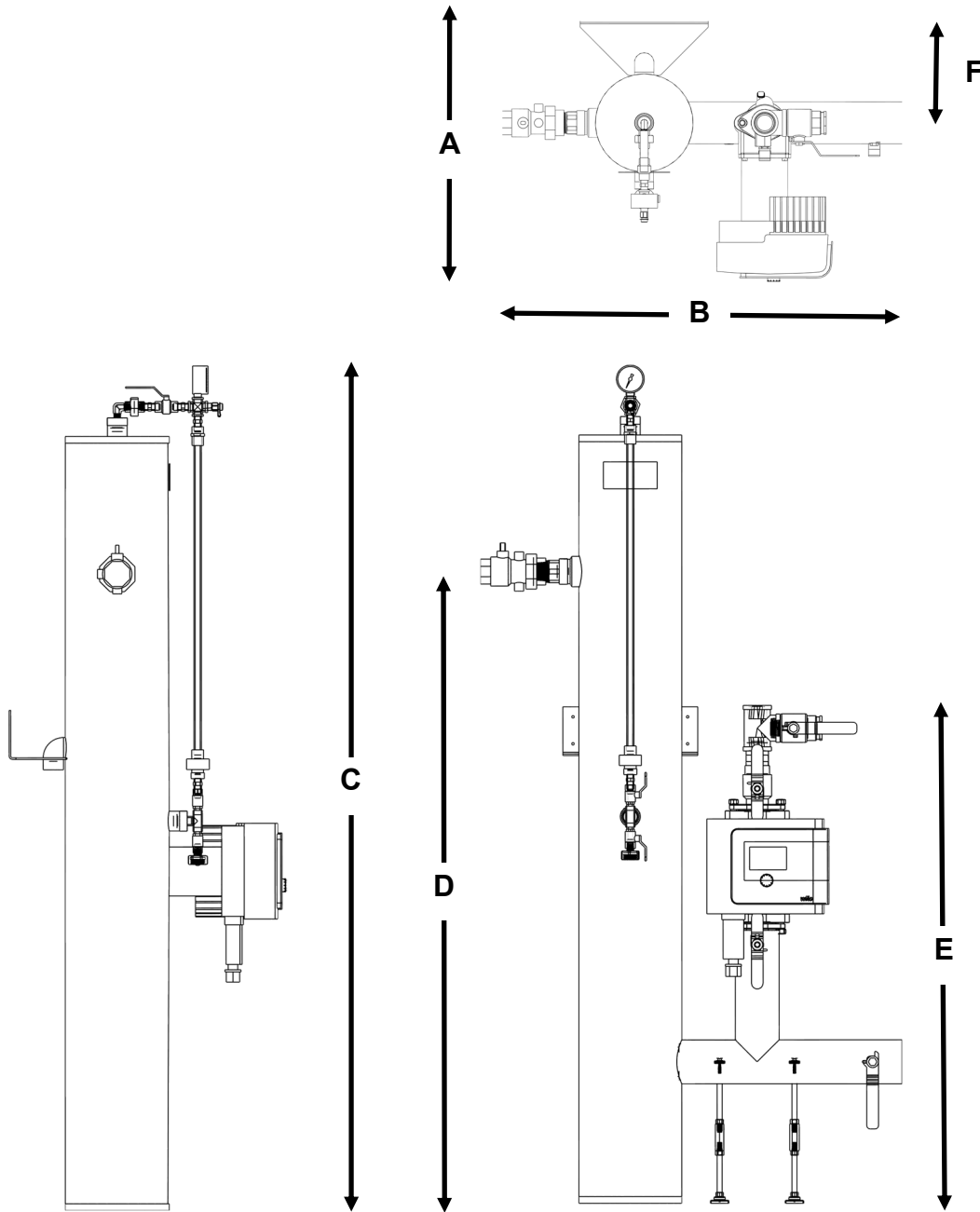


GX6AHB-11

Features:

- Electronically Commutated Motor (ECM) Variable Speed Pump Technology
- Lowest Energy Consumption per Ton of Heat Pump Capacity
- Available in 4 Configurations:
 - Basic - Single Pump
 - Dual - Two Pumps in Parallel (either Full or Partial Redundancy)
 - Primary/Secondary - Two Pumps (Primary for Loop Field & Secondary for Heat Pumps)
 - Dual Primary/Secondary - Four Pumps (Two Primary & Two Secondary)
- Non-Pressurized but capable of being pressurized Flow Center
- Sealed High-Density Polyethylene Insulated Canister
- Air Separation Chamber
- 0-100 psig pressure gauge
- Sight Glass to indicate proper fill level
- FPT Brass or Flanged Inlet & Outlet Connections
- Stabilizing Wall Mounting Bracket
- Purge Ports and hose bib connection for Easy Fill & Maintenance
- GV Zone Monitor (GVZM) Accessory, a cost-effective way to further reduce energy consumption by disabling pump when no heat pumps are running
- Engineering Support for system design
- 3 Year Limited Warranty





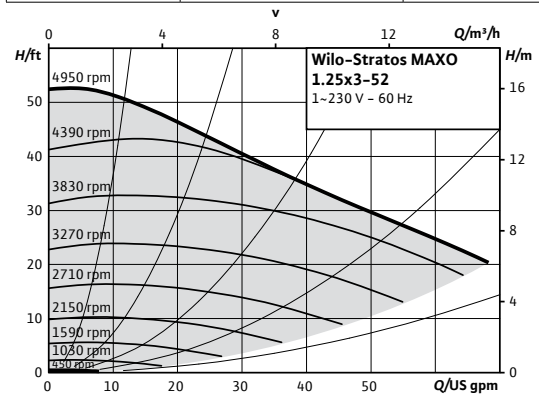
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A	Depth	1' 8 1/4"	515
B	Width	2' 7 1/4"	794
C	Height	5' 0 1/8"	1579
D	Inlet Height	3' 10 7/8"	1190
E	Outlet Height	3' 1"	939
F	Centerline from wall	0' 7 7/8"	202
	Inlet Connection	1-1/4" FPT	
	Outlet Connection	1-1/4" FPT	
	Purge Port Connection	1-1/4" FPT	

Wilo-Stratos MAXO



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

Tag #	Model #	Flow	Head	Control Mode	Cycle	Phase	Voltage
	Maxo 1.25x3-52				60Hz	1~	230-240V



Product Info

Brand	Wilo
Product Description	Stratos MAXO 1.25x3-52
Article Number	2164611
Net Weight (approx.)	34 lbs

Materials

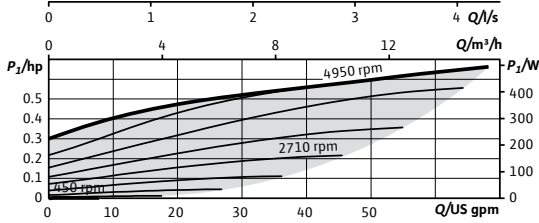
Pump Housing	EN-GJL-250
Impeller	PPS-GF40
Shaft	X30Cr13
Bearing	Carbon, antimony-impregnated

Hydraulic Data

Max Operating Pressure PN	145 PSI
Min. Suction Head (122°F)	7.1 PSI
Min. Suction Head (203°F)	17.1 PSI
Min. Suction Head (230°F)	25.6 PSI
Min. Fluid Temp.	14°F
Max Fluid Temp.	230°F
Min. Ambient Temp	14°F
Max. Ambient Temp	104°F

Motor Data

Mains Connection	1-230-240 V ±10%, 50/60Hz
Motor Type	ECM
Rated Power P ₂	0.582 hp
Min. Speed n _{min}	450 RPM
Max. Speed n _{max}	4950 RPM
Power Consumption P _{1,max}	0.664 hp
Power Consumption P _{1,min}	0.013 hp
Max Current (1-230V) I _{max}	2.21 A
Min Current (1-230V) I _{min}	0.2 A
Insulation Class	F
Protection Class	Enclosure 2



CIF Module Selection

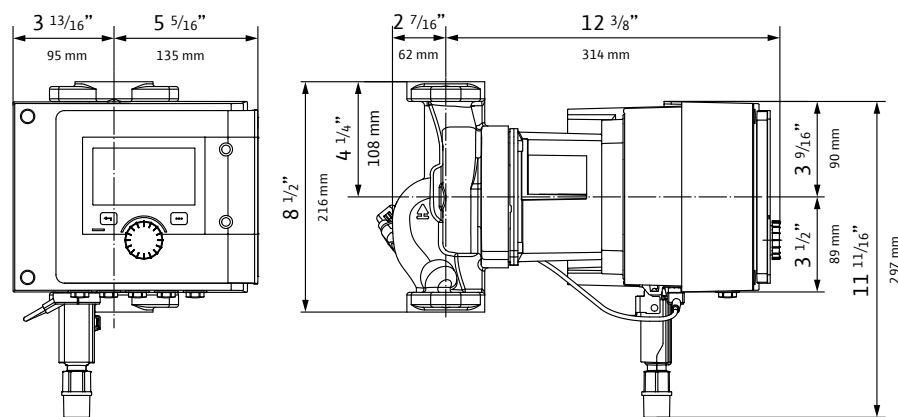
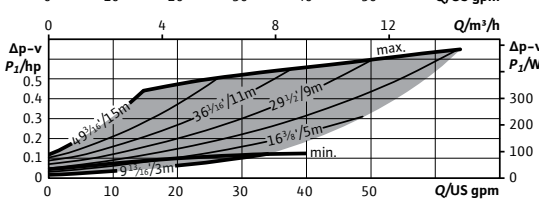
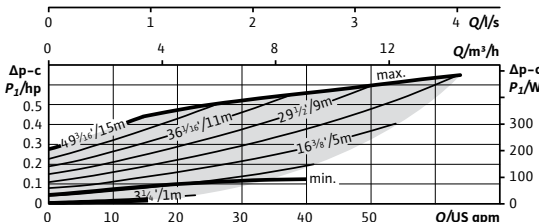
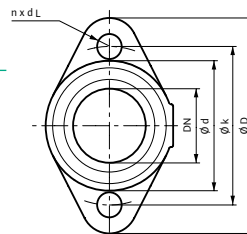
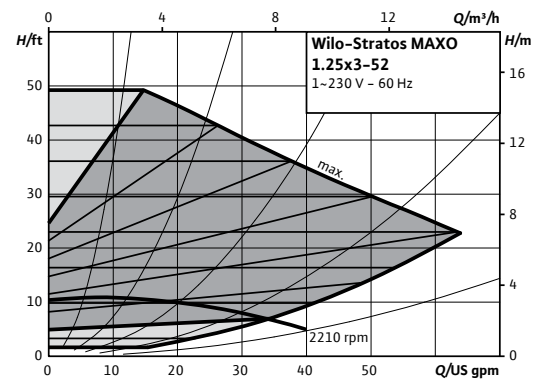
- BACnet MS/TP
- Modbus RTU
- CANopen
- LON TP/FT-10
- PLR

Electrical Inputs

Analog Inputs (2x)	0-10V / 0-20mA / 4-20mA / PT 1000 Passive/Active +24V DC
Digital Inputs (2x)	Ext Off / Ext Min / Ext Max / Ext. MANUAL (BMS off) / External Key Lock / Switch heating, cooling
Wilo NET	Multi-Pump Communication
SSM	Fault Signal
SBM	Run Signal

Accessory Selection

- Immersion Temp. Sensor Pt 1000 AA
- Immersion Sleeve G 1/2", 45mm
- Pipe Surface Contact Sensor PT 1000 B
- Immersion Sleeve G 1/2", 100mm

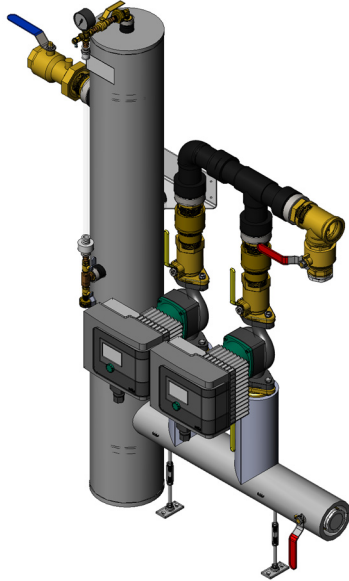


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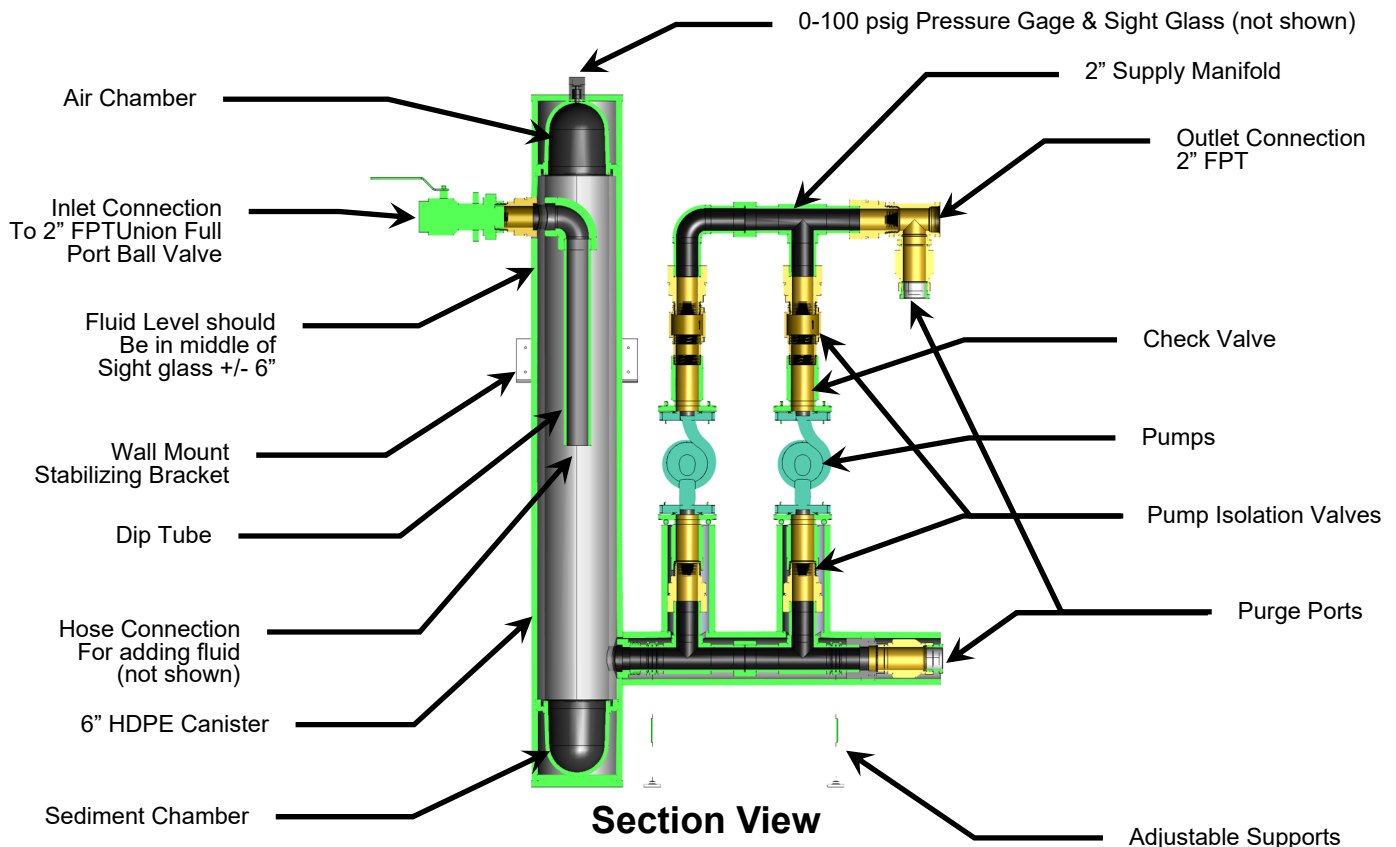
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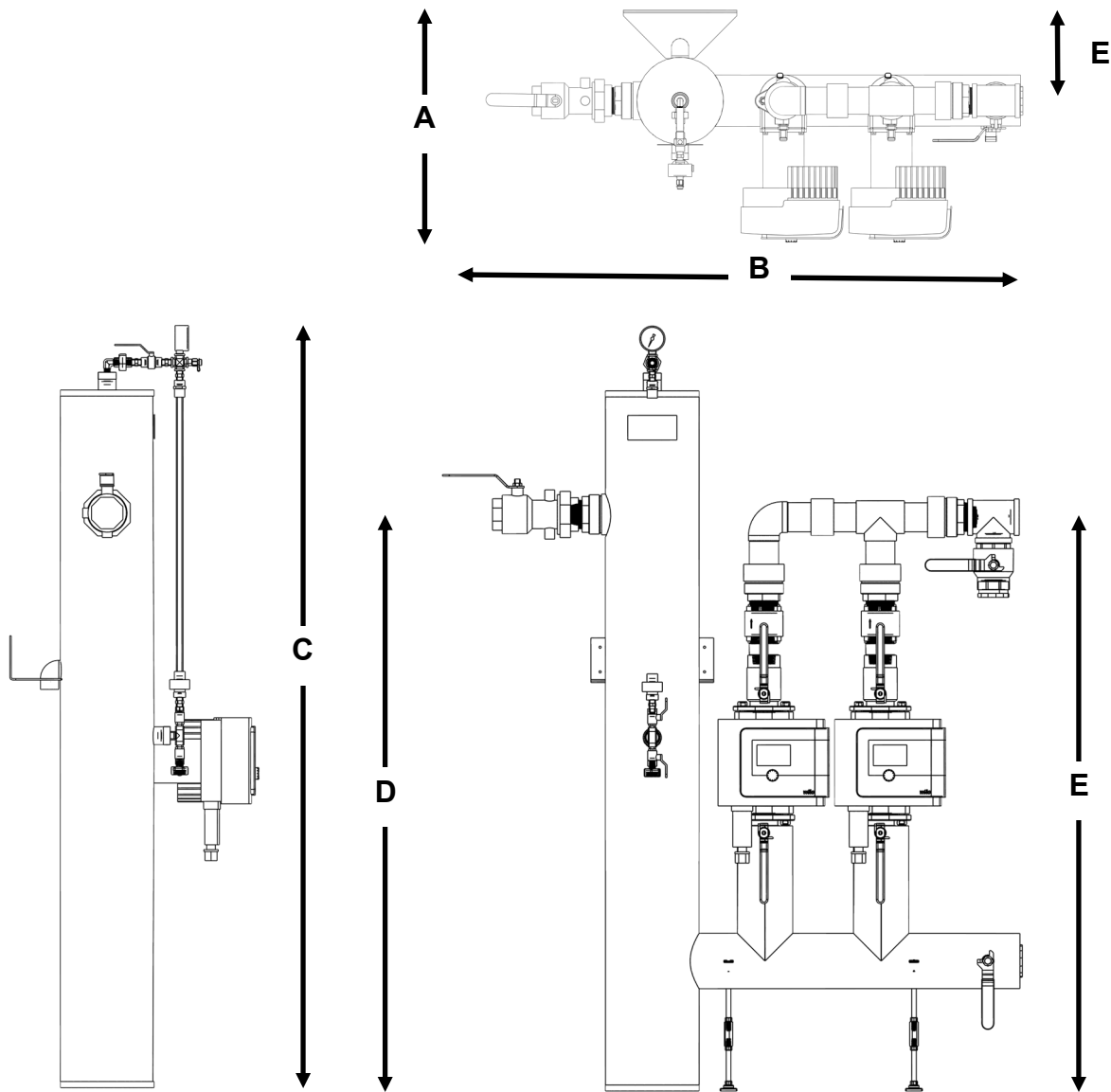


GX6AHD-22

Features:

- Electronically Commutated Motor (ECM) Variable Speed Pump Technology
- Lowest Energy Consumption per Ton of Heat Pump Capacity
- Available in 4 Configurations:
 - Basic - Single Pump
 - Dual - Two Pumps in Parallel (either Full or Partial Redundancy)
 - Primary/Secondary - Two Pumps (Primary for Loop Field & Secondary for Heat Pumps)
 - Dual Primary/Secondary - Four Pumps (Two Primary & Two Secondary)
- Non-Pressurized but capable of being pressurized Flow Center
- Sealed High-Density Polyethylene Insulated Canister
- Air Separation Chamber
- 0-100 psig pressure gauge
- Sight Glass to indicate proper fill level
- FPT Brass or Flanged Inlet & Outlet Connections
- Stabilizing Wall Mounting Bracket
- Purge Ports and hose bib connection for Easy Fill & Maintenance
- GV Zone Monitor (GVZM) Accessory, a cost-effective way to further reduce energy consumption by disabling pump when no heat pumps are running
- Engineering Support for system design
- 3 Year Limited Warranty





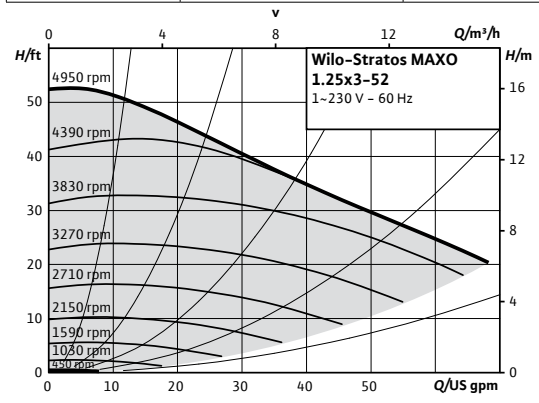
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A	Depth	1' 8 1/2"	513
B	Width	3' 6 7/8"	1091
C	Height	5' 2 1/4"	1582
D	Inlet Height	3' 10 3/8"	1179
E	Outlet Height	3' 10 3/4"	1187
F	Centerline from wall	0' 7 7/8"	202
	Inlet Connection	2" FPT	
	Outlet Connection	2" FPT	
	Purge Port Connection	2" FPT	

Wilo-Stratos MAXO



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

Tag #	Model #	Flow	Head	Control Mode	Cycle	Phase	Voltage
	Maxo 1.25x3-52				60Hz	1~	230-240V



Product Info

Brand	Wilo
Product Description	Stratos MAXO 1.25x3-52
Article Number	2164611
Net Weight (approx.)	34 lbs

Materials

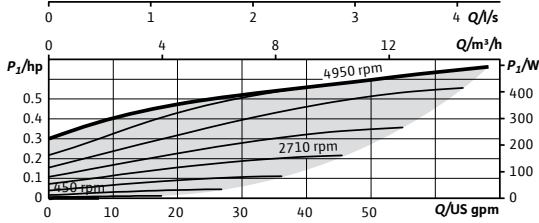
Pump Housing	EN-GJL-250
Impeller	PPS-GF40
Shaft	X30Cr13
Bearing	Carbon, antimony-impregnated

Hydraulic Data

Max Operating Pressure PN	145 PSI
Min. Suction Head (122°F)	7.1 PSI
Min. Suction Head (203°F)	17.1 PSI
Min. Suction Head (230°F)	25.6 PSI
Min. Fluid Temp.	14°F
Max Fluid Temp.	230°F
Min. Ambient Temp	14°F
Max. Ambient Temp	104°F

Motor Data

Mains Connection	1-230-240 V ±10%, 50/60Hz
Motor Type	ECM
Rated Power P ₂	0.582 hp
Min. Speed n _{min}	450 RPM
Max. Speed n _{max}	4950 RPM
Power Consumption P _{1,max}	0.664 hp
Power Consumption P _{1,min}	0.013 hp
Max Current (1-230V) I _{max}	2.21 A
Min Current (1-230V) I _{min}	0.2 A
Insulation Class	F
Protection Class	Enclosure 2



CIF Module Selection

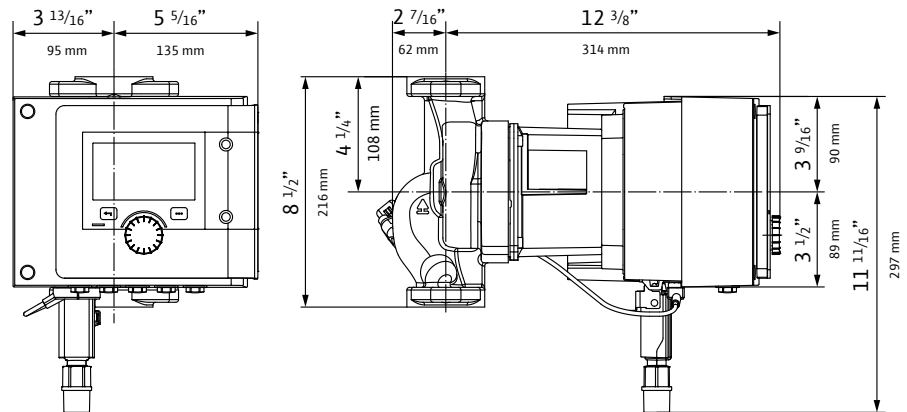
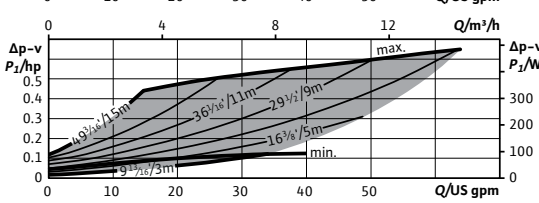
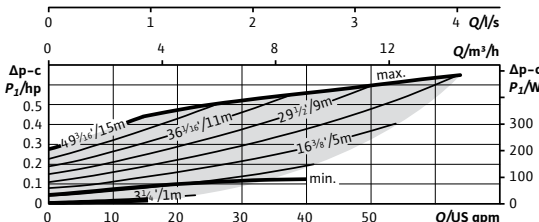
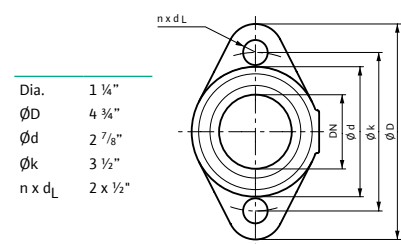
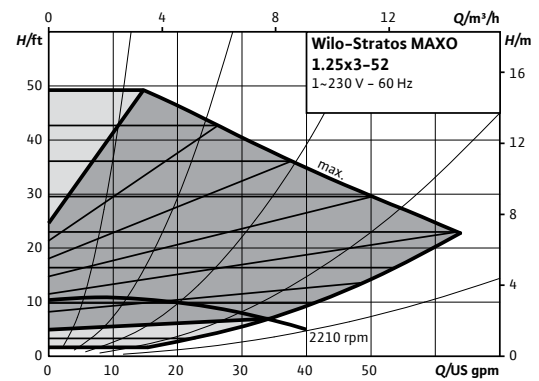
- BACnet MS/TP
- Modbus RTU
- CANopen
- LON TP/FT-10
- PLR

Electrical Inputs

Analog Inputs (2x)	0-10V / 0-20mA / 4-20mA / PT 1000 Passive/Active +24V DC
Digital Inputs (2x)	Ext Off / Ext Min / Ext Max / Ext. MANUAL (BMS off) / External Key Lock / Switch heating, cooling
Wilo NET	Multi-Pump Communication
SSM	Fault Signal
SBM	Run Signal

Accessory Selection

- Immersion Temp. Sensor Pt 1000 AA
- Immersion Sleeve G ½", 45mm
- Pipe Surface Contact Sensor PT 1000 B
- Immersion Sleeve G ½", 100mm

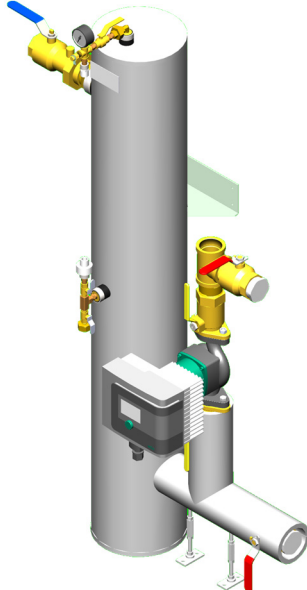


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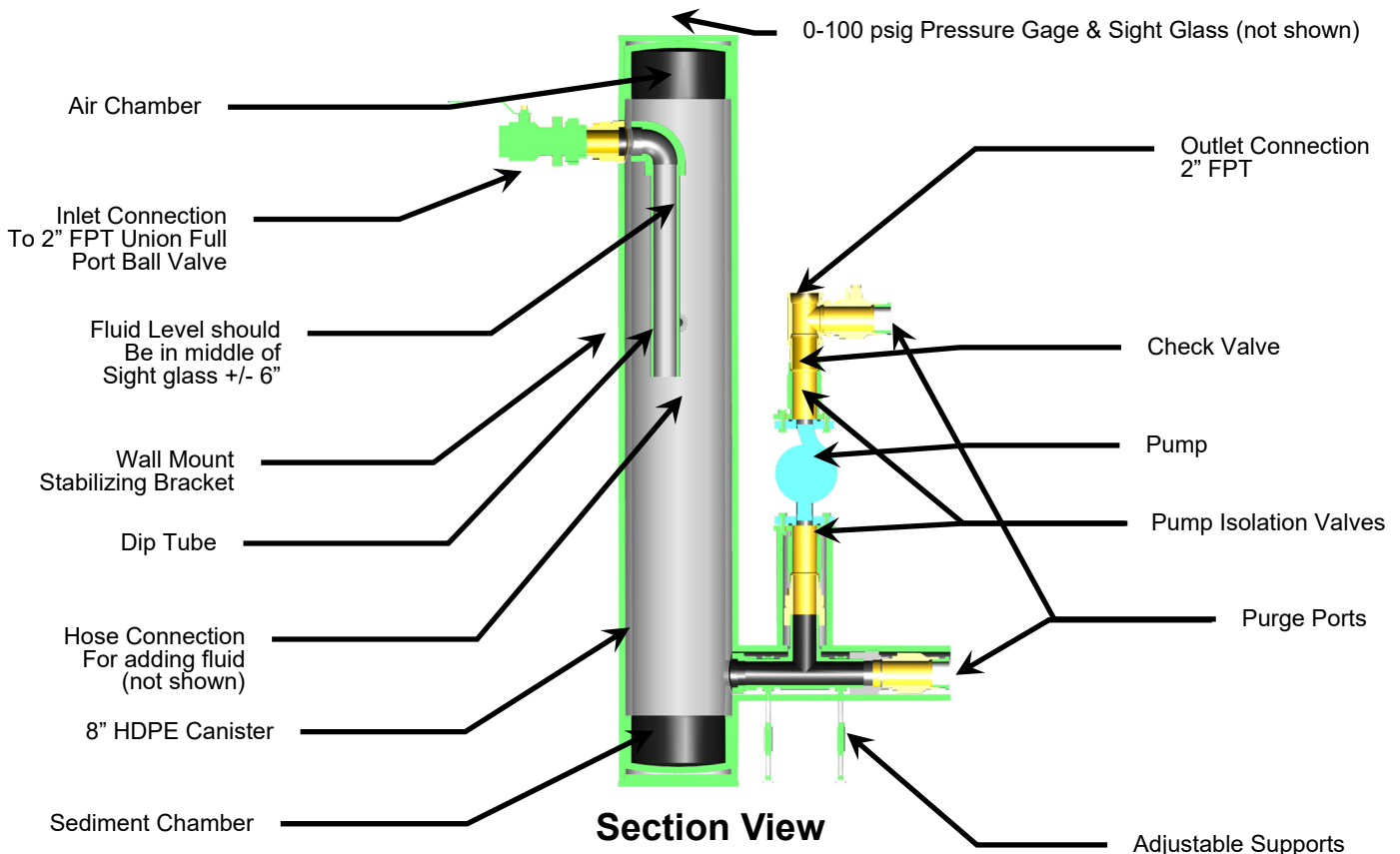
The GX series of flow centers operates like and with all the benefits of a non-pressurized flow center with added features, including the ability to operate at pressures up to 100 psig. Designed for use in multiple heat pump geothermal applications, properly installed, the GX is self-regulated, using the minimum power necessary for supplying the optimal flow rate to each running heat pump (regardless of size or proximity to flow center). Using the WILO MAXO Pump the GX captures the benefits of state-of-the-art ECM variable speed pump technology.

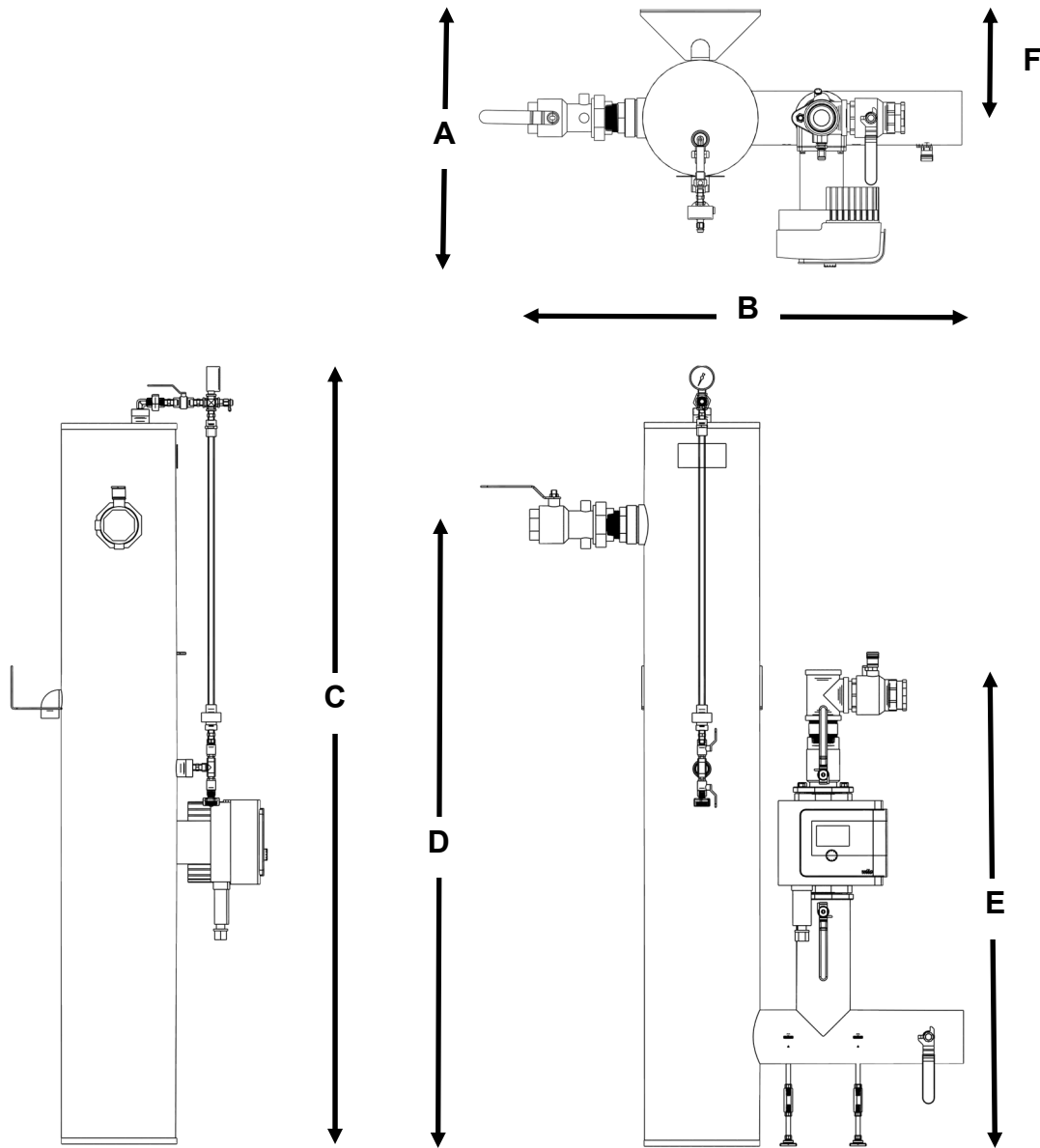


GX8AEB-22

Features:

- Electronically Commutated Motor (ECM) Variable Speed Pump Technology
- Lowest Energy Consumption per Ton of Heat Pump Capacity
- Available in 4 Configurations:
 - Basic - Single Pump
 - Dual - Two Pumps in Parallel (either Full or Partial Redundancy)
 - Primary/Secondary - Two Pumps (Primary for Loop Field & Secondary for Heat Pumps)
 - Dual Primary/Secondary - Four Pumps (Two Primary & Two Secondary)
- Non-Pressurized but capable of being pressurized Flow Center
- Sealed High-Density Polyethylene Insulated Canister
- Air Separation Chamber
- 0-100 psig pressure gauge
- Sight Glass to indicate proper fill level
- FPT Brass or Flanged Inlet & Outlet Connections
- Stabilizing Wall Mounting Bracket
- Purge Ports and hose bib connection for Easy Fill & Maintenance
- GV Zone Monitor (GVZM) Accessory, a cost-effective way to further reduce energy consumption by disabling pump when no heat pumps are running
- Engineering Support for system design
- 3 Year Limited Warranty





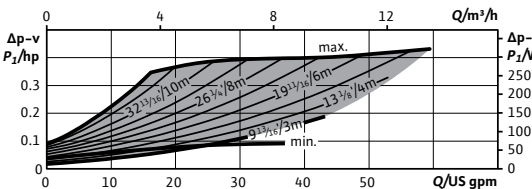
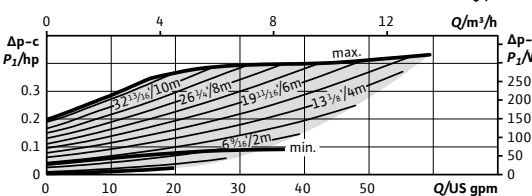
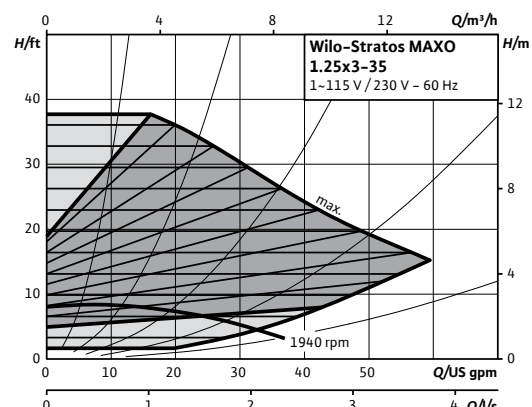
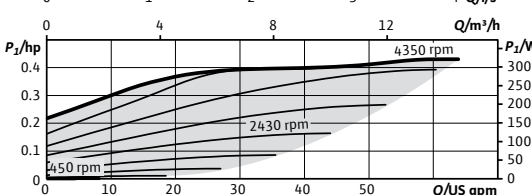
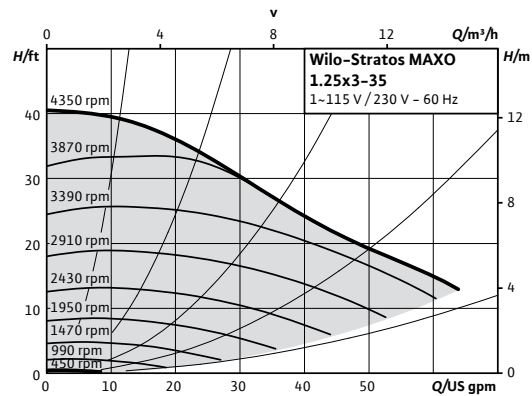
		ft - in	mm
A	Depth	1' 9 1/4"	540
B	Width	3' 1/8"	917
C	Height	5' 5"	1651
D	Inlet Height	4' 3 3/4"	1314
E	Outlet Height	3' 3 5/8"	1007
F	Centerline from wall	0' 8 7/8"	226
	Inlet Connection	2" FPT	
	Outlet Connection	2" FPT	
	Purge Port Connection	2" FPT	

Wilo-Stratos MAXO



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

Tag #	Model #	Flow	Head	Control Mode	Cycle	Phase	Voltage
	Maxo 1.25x3-35				60Hz	1~	115/230-240V



Product Info

Brand	Wilo
Product Description	Stratos MAXO 1.25x3-35
Article Number	2164610
Net Weight (approx.)	34 lbs

Hydraulic Data

Max Operating Pressure PN	145 PSI
Min. Suction Head (122°F)	4.3 PSI
Min. Suction Head (203°F)	14.2 PSI
Min. Suction Head (230°F)	22.8 PSI
Min. Fluid Temp.	14°F
Max Fluid Temp.	230°F
Min. Ambient Temp	14°F
Max. Ambient Temp	104°F

CIF Module Selection

BACnet MS/TP
Modbus RTU
CANopen
LON TP/FT-10
PLR

Accessory Selection

Immersion Temp. Sensor Pt 1000 AA
Immersion Sleeve G 1/2", 45mm
Pipe Surface Contact Sensor PT 1000 B
Immersion Sleeve G 1/2", 100mm

Materials

Pump Housing	EN-GJL-250
Impeller	PPS-GF40
Shaft	X30Cr13
Bearing	Carbon, antimony-impregnated

Motor Data

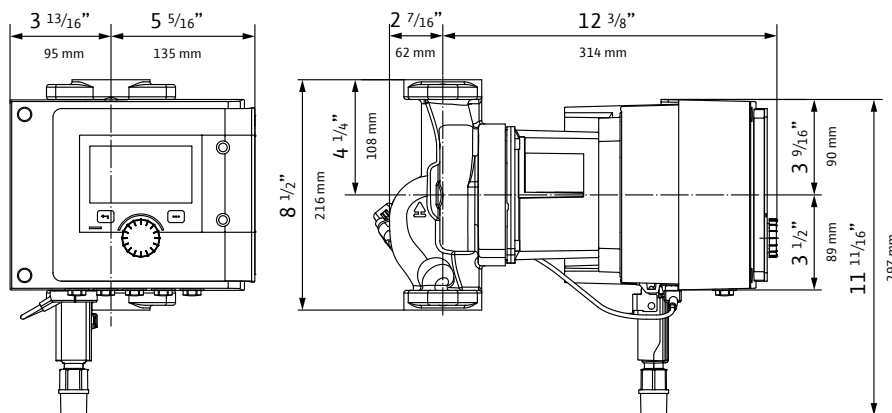
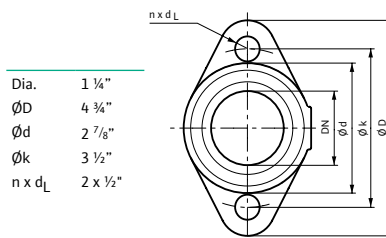
Mains Connection	1-115V ±10%, 50/60Hz 1-230-240V ±10%, 50/60Hz
Motor Type	ECM
Rated Power P ₂	0.354 hp
Min. Speed n _{min}	450 RPM
Max. Speed n _{max}	4350 RPM
Power Consumption P _{3,max}	0.433 hp
Power Consumption P _{1,min}	0.013 hp
Max Current (1-230V) I _{max}	1.38 A
Min Current (1-230V) I _{min}	0.15 A
Max Current (1-115V) I _{max}	2.83 A
Min Current (1-115V) I _{min}	0.15 A
Insulation Class	F
Protection Class	Enclosure 2

Electrical Inputs

Analog Inputs (2x)	0-10V / 0-20mA / 4-20mA / PT 1000 Passive/Active +24V DC
Digital Inputs (2x)	Ext Off / Ext Min / Ext Max / Ext. MANUAL (BMS off) / External Key Lock / Switch heating, cooling
Wilo NET	Multi-Pump Communication
SSM	Fault Signal
SBM	Run Signal

Installation Dimensions

Pipe Connection (discharge)	1 1/4"
Pipe Connection (suction)	1 1/4"
Flange to Flange	8 1/2"

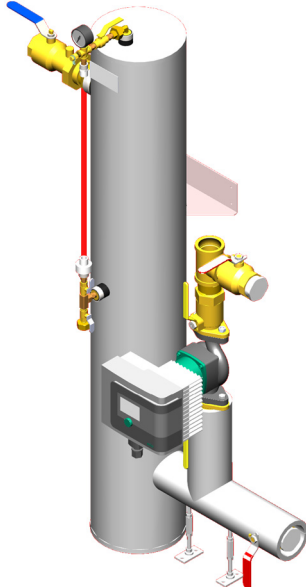


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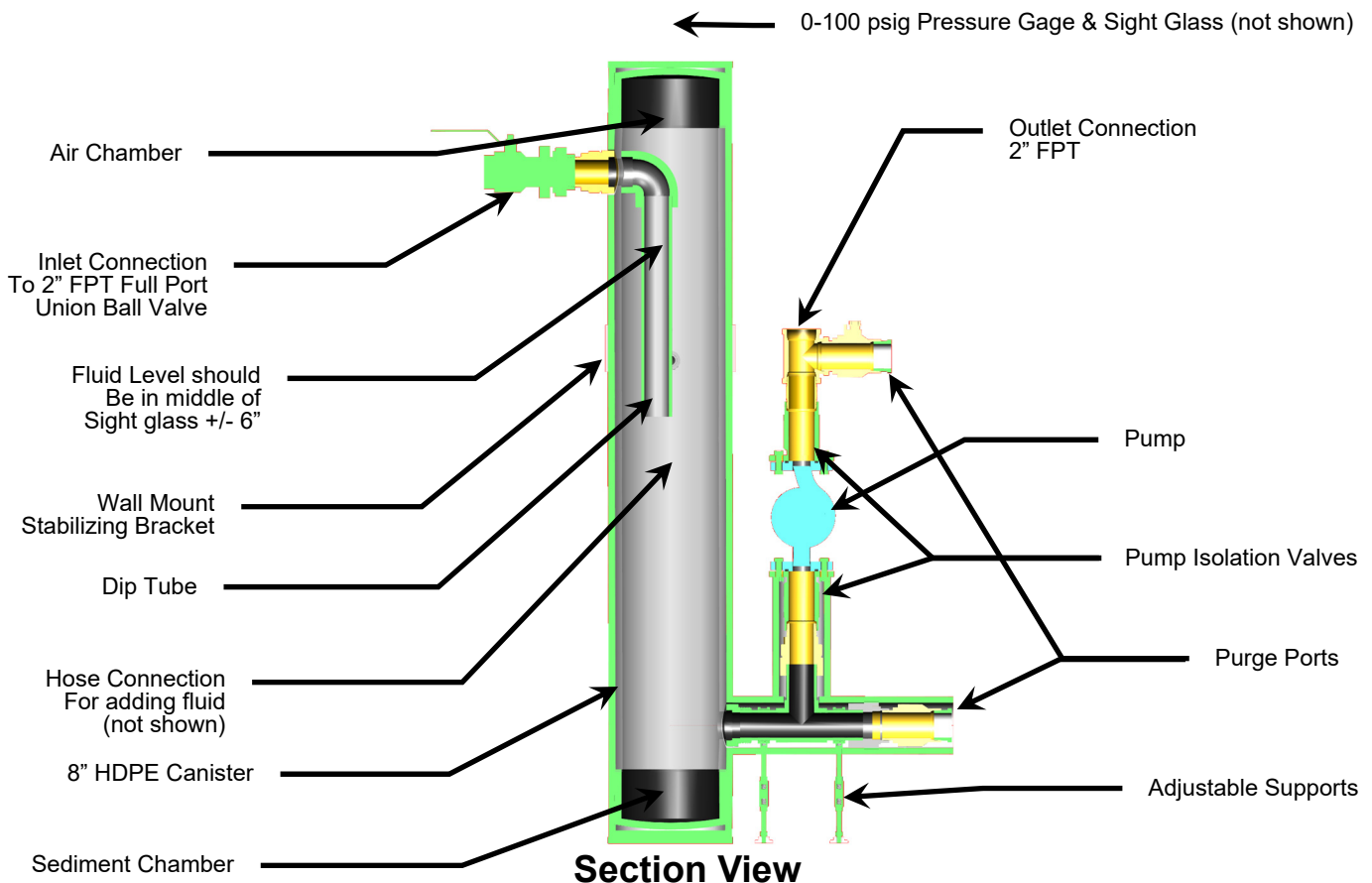
The GX series of flow centers operates like and with all the benefits of a non-pressurized flow center with added features, including the ability to operate at pressures up to 100 psig. Designed for use in multiple heat pump geothermal applications, properly installed, the GX is self-regulated, using the minimum power necessary for supplying the optimal flow rate to each running heat pump (regardless of size or proximity to flow center). Using the WILO MAXO Pump the GX captures the benefits of state-of-the-art ECM variable speed pump technology.

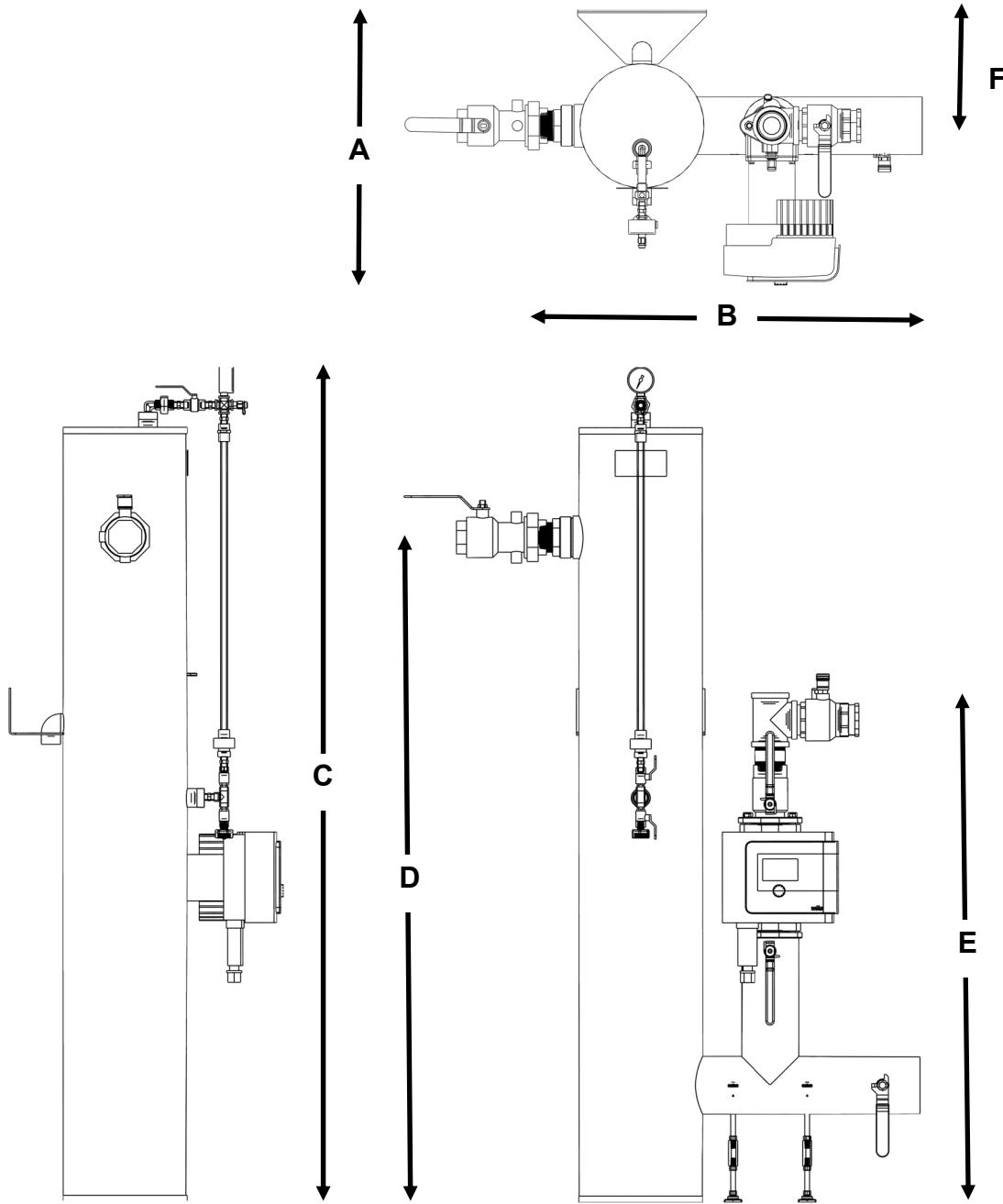


GX8AHB-22

Features:

- Electronically Commutated Motor (ECM) Variable Speed Pump Technology
- Lowest Energy Consumption per Ton of Heat Pump Capacity
- Available in 4 Configurations:
 - Basic - Single Pump
 - Dual - Two Pumps in Parallel (either Full or Partial Redundancy)
 - Primary/Secondary - Two Pumps (Primary for Loop Field & Secondary for Heat Pumps)
 - Dual Primary/Secondary - Four Pumps (Two Primary & Two Secondary)
- Non-Pressurized but capable of being pressurized Flow Center
- Sealed High-Density Polyethylene Insulated Canister
- Air Separation Chamber
- 0-100 psig pressure gauge
- Sight Glass to indicate proper fill level
- FPT Brass or Flanged Inlet & Outlet Connections
- Stabilizing Wall Mounting Bracket
- Purge Ports and hose bib connection for Easy Fill & Maintenance
- GV Zone Monitor (GVZM) Accessory, a cost-effective way to further reduce energy consumption by disabling pump when no heat pumps are running
- Engineering Support for system design
- 3 Year Limited Warranty





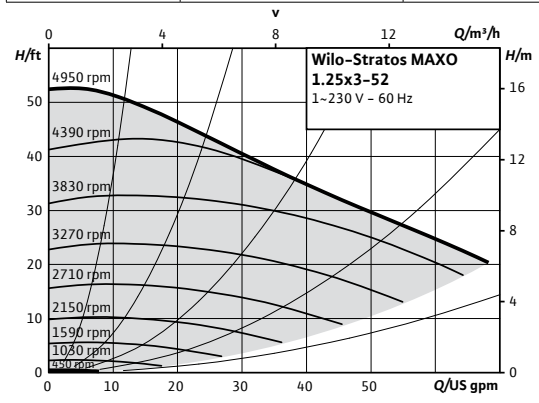
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A	Depth	1' 9 3/8"	543
B	Width	3' 1/8"	917
C	Height	5' 5"	1650
D	Inlet Height	4' 3 3/4"	1313
E	Outlet Height	3' 3 5/8"	1006
F	Centerline from wall	0' 9"	229
	Inlet Connection	2" FPT	
	Outlet Connection	2" FPT	
	Purge Port Connection	2" FPT	

Wilo-Stratos MAXO



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

Tag #	Model #	Flow	Head	Control Mode	Cycle	Phase	Voltage
	Maxo 1.25x3-52				60Hz	1~	230-240V



Product Info

Brand	Wilo
Product Description	Stratos MAXO 1.25x3-52
Article Number	2164611
Net Weight (approx.)	34 lbs

Materials

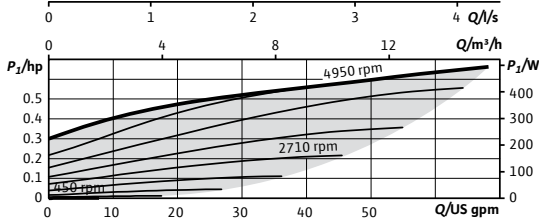
Pump Housing	EN-GJL-250
Impeller	PPS-GF40
Shaft	X30Cr13
Bearing	Carbon, antimony-impregnated

Hydraulic Data

Max Operating Pressure PN	145 PSI
Min. Suction Head (122°F)	7.1 PSI
Min. Suction Head (203°F)	17.1 PSI
Min. Suction Head (230°F)	25.6 PSI
Min. Fluid Temp.	14°F
Max Fluid Temp.	230°F
Min. Ambient Temp	14°F
Max. Ambient Temp	104°F

Motor Data

Mains Connection	1-230-240 V ±10%, 50/60Hz
Motor Type	ECM
Rated Power P ₂	0.582 hp
Min. Speed n _{min}	450 RPM
Max. Speed n _{max}	4950 RPM
Power Consumption P _{1,max}	0.664 hp
Power Consumption P _{1,min}	0.013 hp
Max Current (1-230V) I _{max}	2.21 A
Min Current (1-230V) I _{min}	0.2 A
Insulation Class	F
Protection Class	Enclosure 2



CIF Module Selection

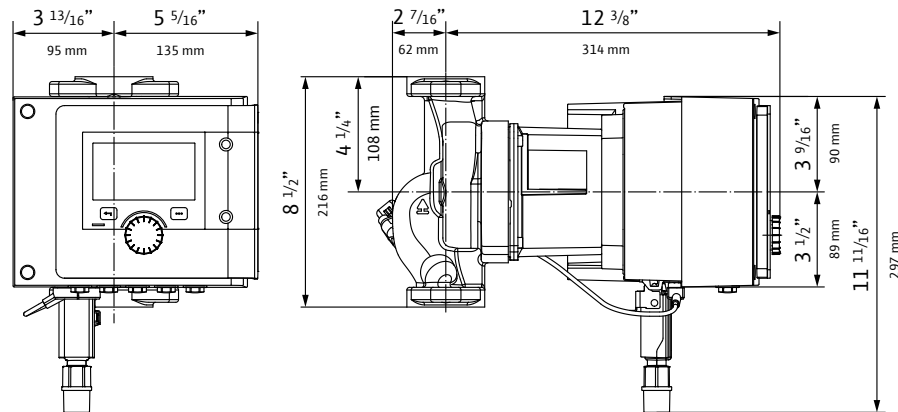
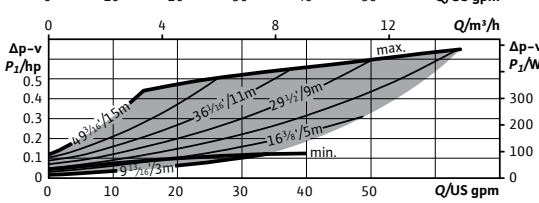
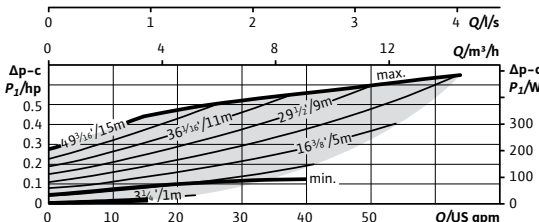
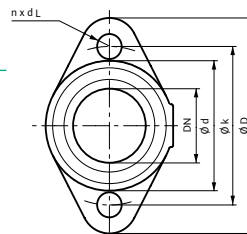
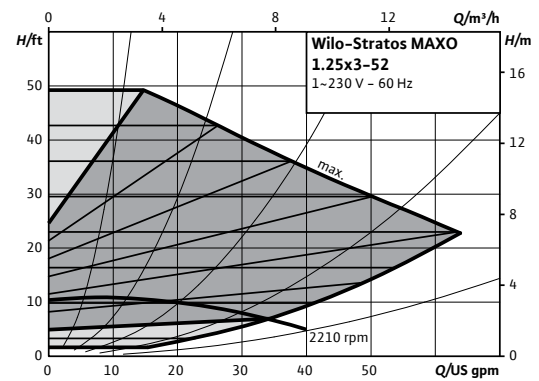
- BACnet MS/TP
- Modbus RTU
- CANopen
- LON TP/FT-10
- PLR

Electrical Inputs

Analog Inputs (2x)	0-10V / 0-20mA / 4-20mA / PT 1000 Passive/Active +24V DC
Digital Inputs (2x)	Ext Off / Ext Min / Ext Max / Ext. MANUAL (BMS off) / External Key Lock / Switch heating, cooling
Wilo NET	Multi-Pump Communication
SSM	Fault Signal
SBM	Run Signal

Accessory Selection

- Immersion Temp. Sensor Pt 1000 AA
- Immersion Sleeve G ½", 45mm
- Pipe Surface Contact Sensor PT 1000 B
- Immersion Sleeve G ½", 100mm

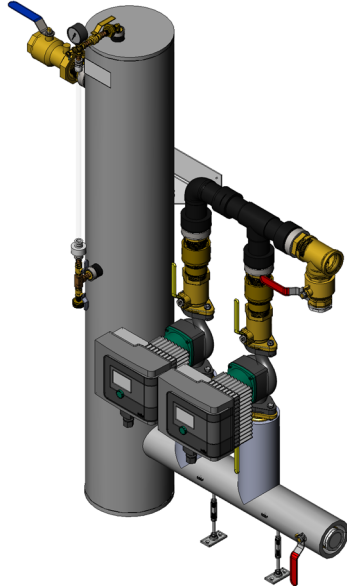


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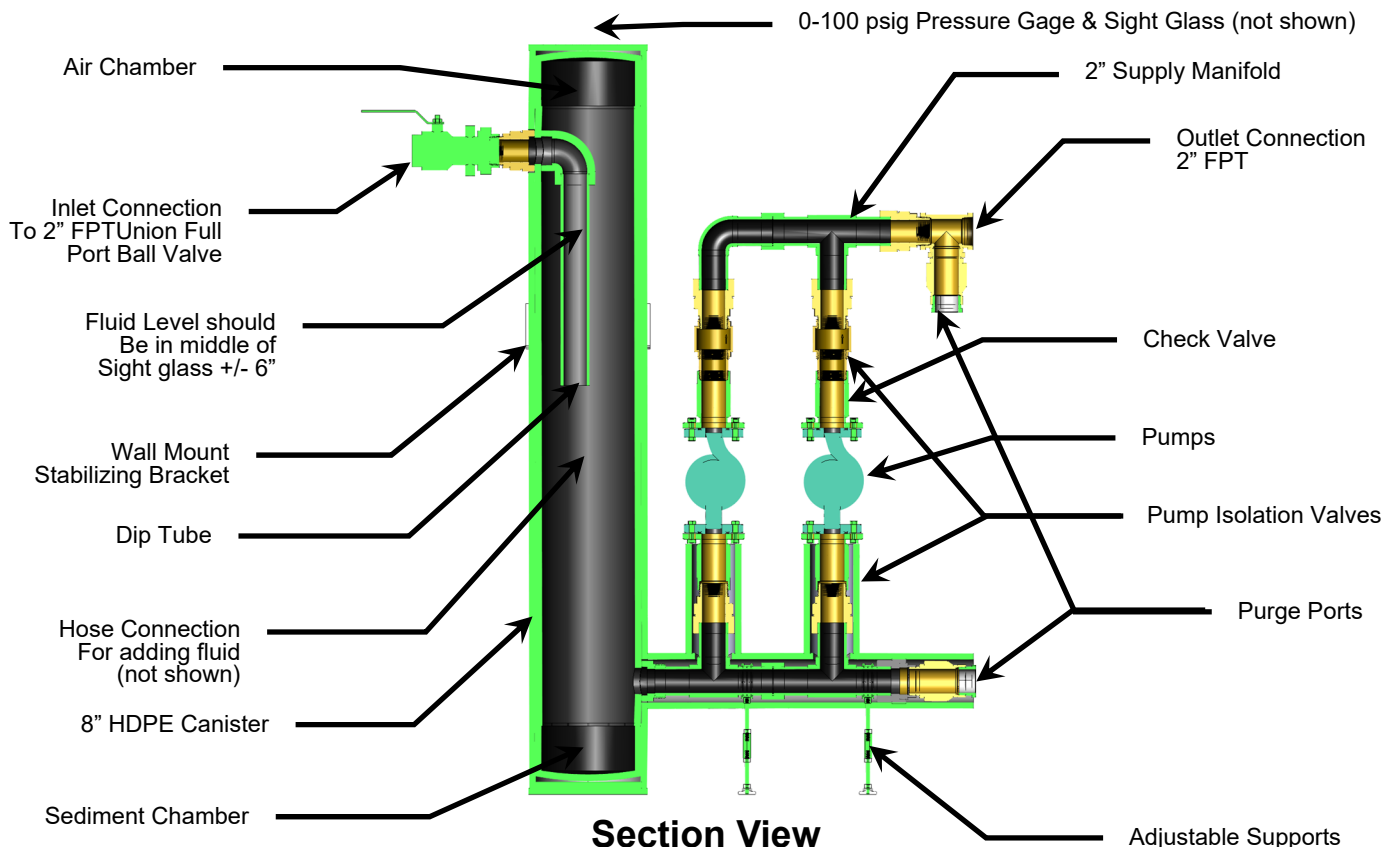
The GX series of flow centers operates like and with all the benefits of a non-pressurized flow center with added features, including the ability to operate at pressures up to 100 psig. Designed for use in multiple heat pump geothermal applications, properly installed, the GX is self-regulated, using the minimum power necessary for supplying the optimal flow rate to each running heat pump (regardless of size or proximity to flow center). Using the WILO MAXO Pump the GX captures the benefits of state-of-the-art ECM variable speed pump technology.

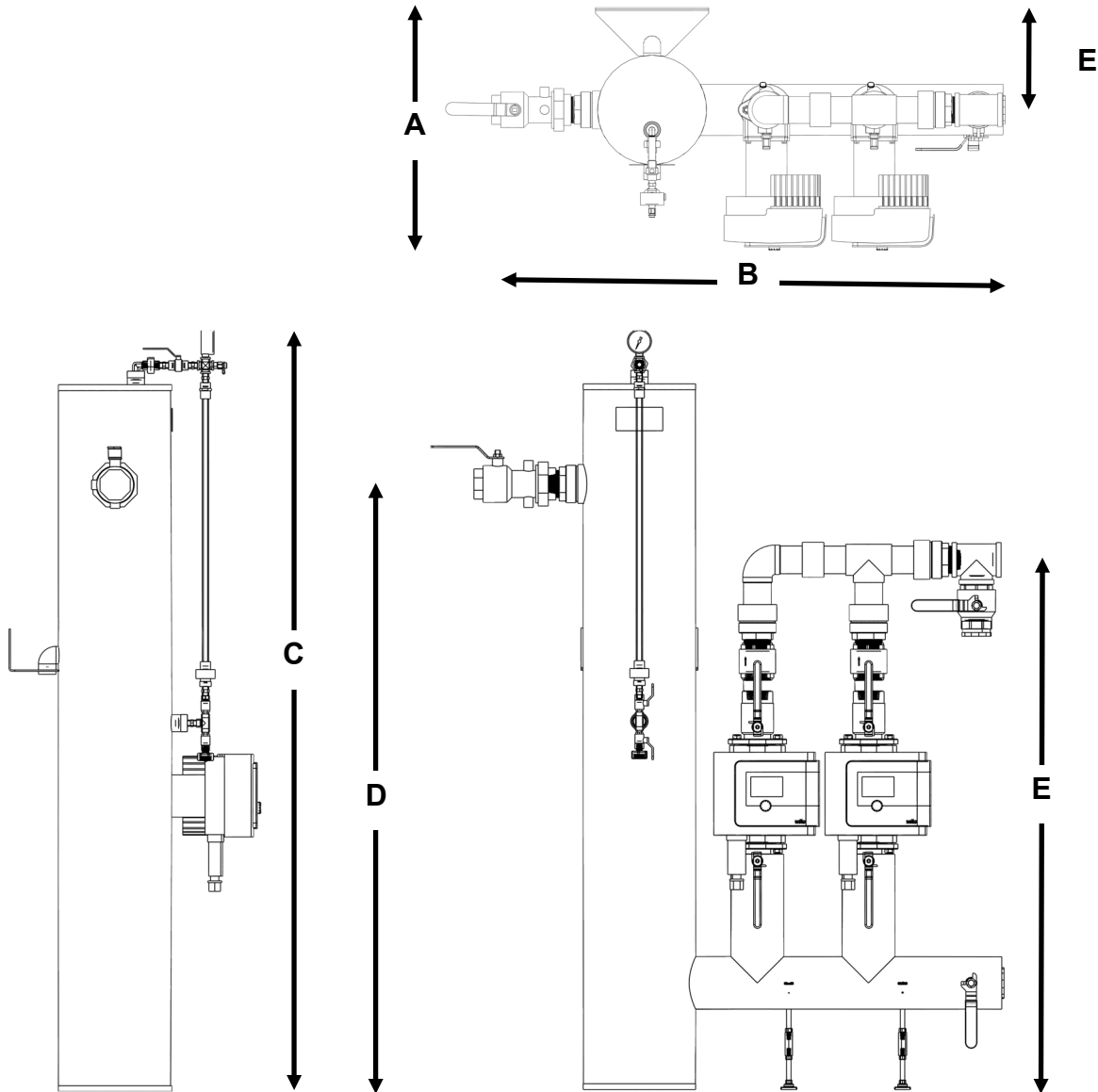


GX8AHD-22

Features:

- Electronically Commutated Motor (ECM) Variable Speed Pump Technology
- Lowest Energy Consumption per Ton of Heat Pump Capacity
- Available in 4 Configurations:
 - Basic - Single Pump
 - Dual - Two Pumps in Parallel (either Full or Partial Redundancy)
 - Primary/Secondary - Two Pumps (Primary for Loop Field & Secondary for Heat Pumps)
 - Dual Primary/Secondary - Four Pumps (Two Primary & Two Secondary)
- Non-Pressurized but capable of being pressurized Flow Center
- Sealed High-Density Polyethylene Insulated Canister
- Air Separation Chamber
- 0-100 psig pressure gauge
- Sight Glass to indicate proper fill level
- FPT Brass or Flanged Inlet & Outlet Connections
- Stabilizing Wall Mounting Bracket
- Purge Ports and hose bib connection for Easy Fill & Maintenance
- GV Zone Monitor (GVZM) Accessory, a cost-effective way to further reduce energy consumption by disabling pump when no heat pumps are running
- Engineering Support for system design
- 3 Year Limited Warranty





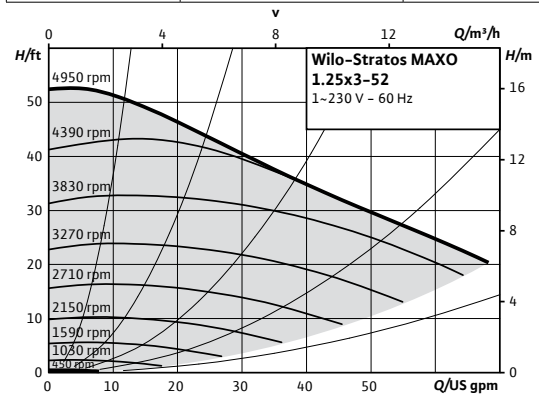
		ft - in	mm
A	Depth	1' 9 3/8"	543
B	Width	3' 9 3/8"	1151
C	Height	5' 4 7/8"	1649
D	Inlet Height	4' 3 1/8"	1300
E	Outlet Height	3' 9 1/4"	1149
F	Centerline from wall	0' 9"	229
	Inlet Connection	2" FPT	
	Outlet Connection	2" FPT	
	Purge Port Connection	2" FPT	

Wilo-Stratos MAXO



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

Tag #	Model #	Flow	Head	Control Mode	Cycle	Phase	Voltage
	Maxo 1.25x3-52				60Hz	1~	230-240V



Product Info

Brand	Wilo
Product Description	Stratos MAXO 1.25x3-52
Article Number	2164611
Net Weight (approx.)	34 lbs

Materials

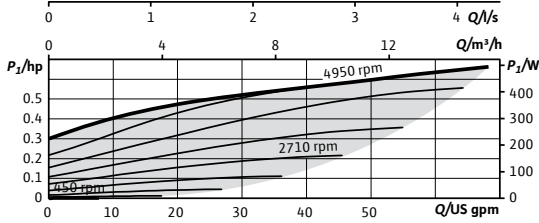
Pump Housing	EN-GJL-250
Impeller	PPS-GF40
Shaft	X30Cr13
Bearing	Carbon, antimony-impregnated

Hydraulic Data

Max Operating Pressure PN	145 PSI
Min. Suction Head (122°F)	7.1 PSI
Min. Suction Head (203°F)	17.1 PSI
Min. Suction Head (230°F)	25.6 PSI
Min. Fluid Temp.	14°F
Max Fluid Temp.	230°F
Min. Ambient Temp	14°F
Max. Ambient Temp	104°F

Motor Data

Mains Connection	1-230-240 V ±10%, 50/60Hz
Motor Type	ECM
Rated Power P ₂	0.582 hp
Min. Speed n _{min}	450 RPM
Max. Speed n _{max}	4950 RPM
Power Consumption P _{1,max}	0.664 hp
Power Consumption P _{1,min}	0.013 hp
Max Current (1-230V) I _{max}	2.21 A
Min Current (1-230V) I _{min}	0.2 A
Insulation Class	F
Protection Class	Enclosure 2



CIF Module Selection

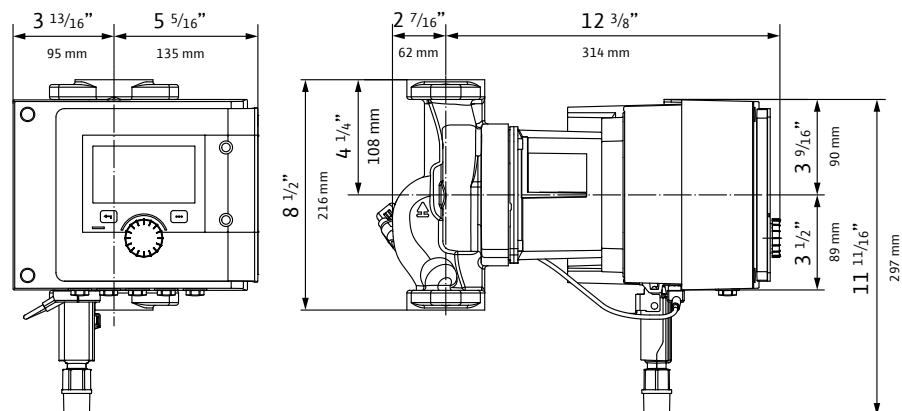
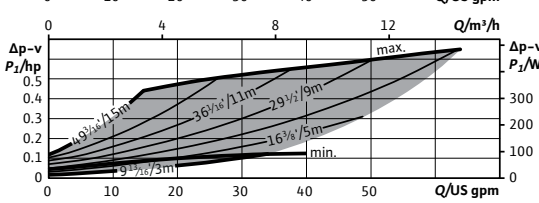
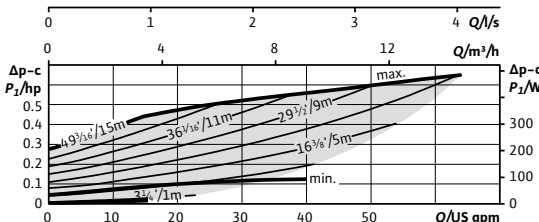
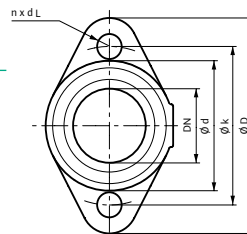
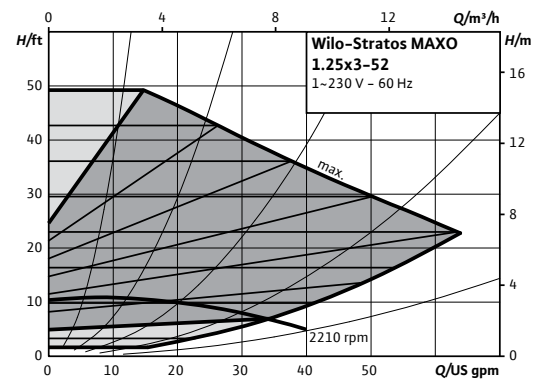
- BACnet MS/TP
- Modbus RTU
- CANopen
- LON TP/FT-10
- PLR

Electrical Inputs

Analog Inputs (2x)	0-10V / 0-20mA / 4-20mA / PT 1000 Passive/Active +24V DC
Digital Inputs (2x)	Ext Off / Ext Min / Ext Max / Ext. MANUAL (BMS off) / External Key Lock / Switch heating, cooling
Wilo NET	Multi-Pump Communication
SSM	Fault Signal
SBM	Run Signal

Accessory Selection

- Immersion Temp. Sensor Pt 1000 AA
- Immersion Sleeve G ½", 45mm
- Pipe Surface Contact Sensor PT 1000 B
- Immersion Sleeve G ½", 100mm

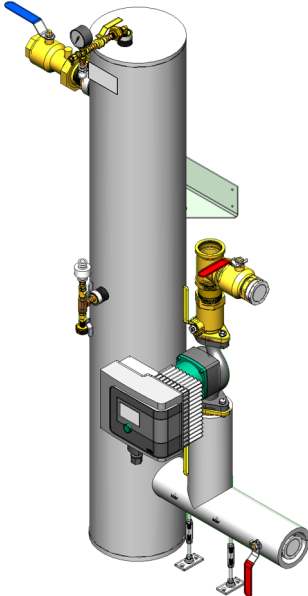


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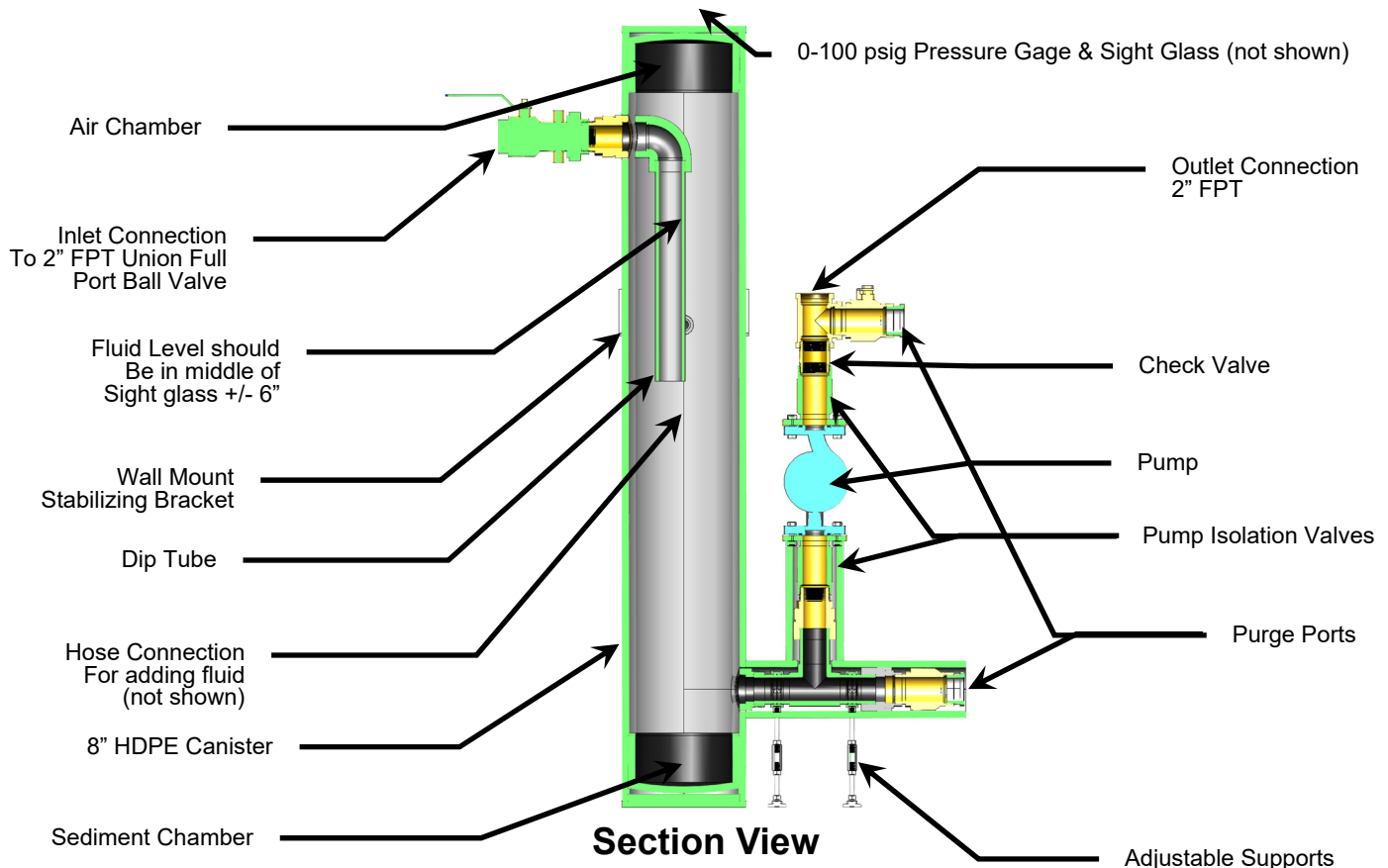
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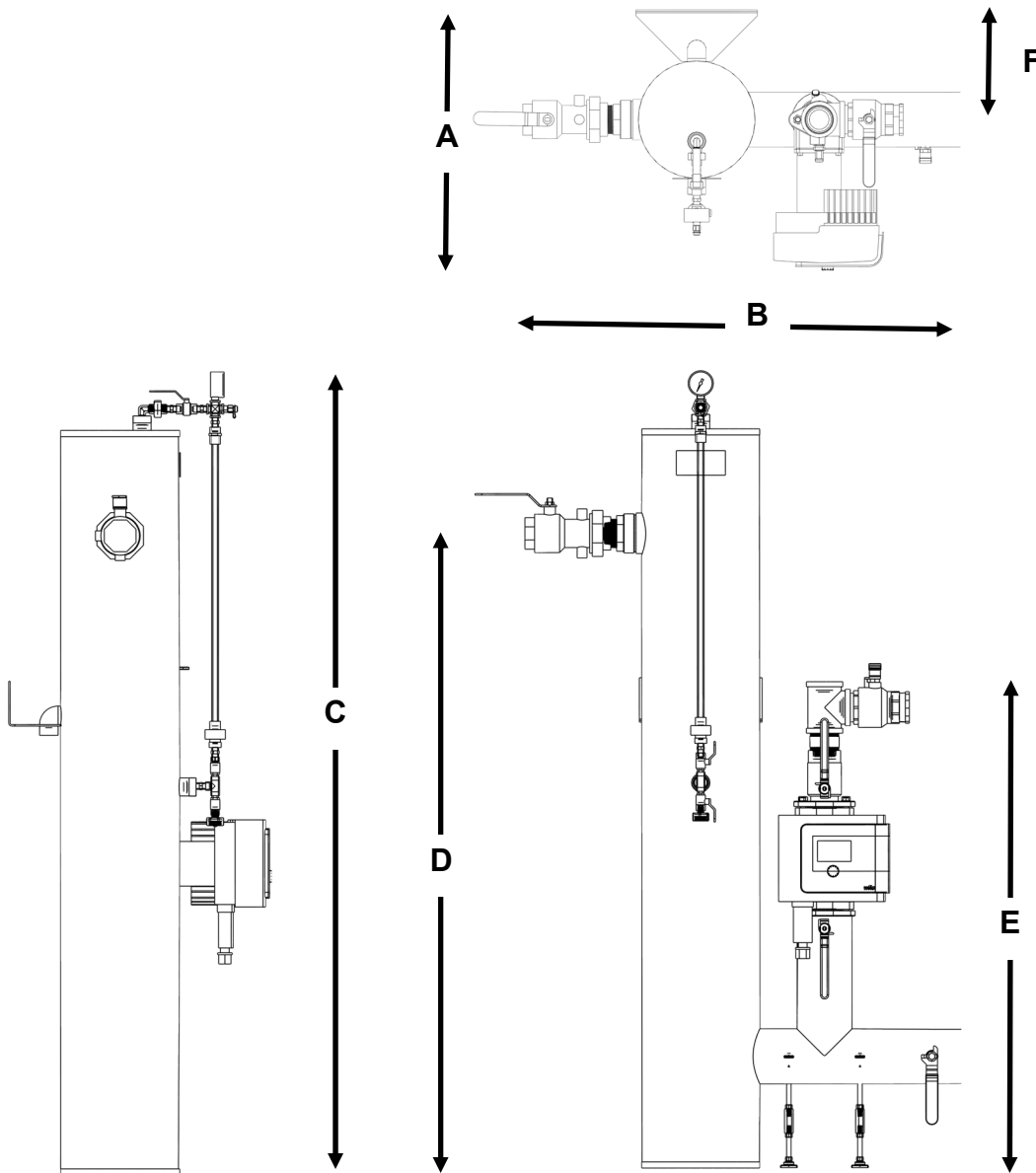


GX8BHB-22

Features:

- Electronically Commutated Motor (ECM) Variable Speed Pump Technology
- Lowest Energy Consumption per Ton of Heat Pump Capacity
- Available in 4 Configurations:
 - Basic - Single Pump
 - Dual - Two Pumps in Parallel (either Full or Partial Redundancy)
 - Primary/Secondary - Two Pumps (Primary for Loop Field & Secondary for Heat Pumps)
 - Dual Primary/Secondary - Four Pumps (Two Primary & Two Secondary)
- Non-Pressurized but capable of being pressurized Flow Center
- Sealed High-Density Polyethylene Insulated Canister
- Air Separation Chamber
- 0-100 psig pressure gauge
- Sight Glass to indicate proper fill level
- FPT Brass or Flanged Inlet & Outlet Connections
- Stabilizing Wall Mounting Bracket
- Purge Ports and hose bib connection for Easy Fill & Maintenance
- GV Zone Monitor (GVZM) Accessory, a cost-effective way to further reduce energy consumption by disabling pump when no heat pumps are running
- Engineering Support for system design
- 3 Year Limited Warranty

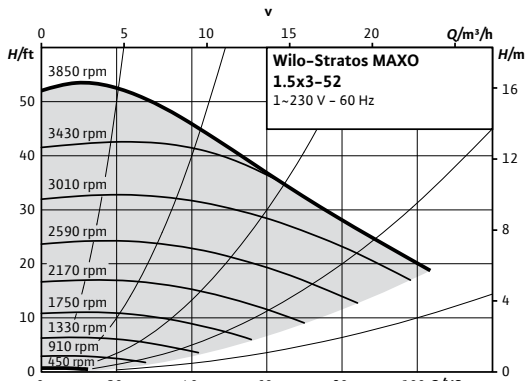




		ft - in	mm
A	Depth	1' 9 3/8"	543
B	Width	2' 7 3/8"	796
C	Height	5' 5"	1650
D	Inlet Height	4' 3 3/4"	1313
E	Outlet Height	3' 3 5/8"	1006
F	Centerline from wall	0' 9"	229
	Inlet Connection	2" FPT	
	Outlet Connection	2" FPT	
	Purge Port Connection	2" FPT	

Wilo-Stratos MAXO

		Project:					
		Engineer:					
		Contractor:					
		Submitted By:			Date:		
		Approved By:			Date:		
Tag #	Model #	Flow	Head	Control Mode	Cycle	Phase	Voltage
	Maxo 1.5x3-52				60Hz	1~	230-240V



Product Info

Brand	Wilo
Product Description	Stratos MAXO 1.5x3-52
Article Number	2164612
Net Weight (approx.)	36 lbs

Materials

Pump Housing	EN-GJL-250
Impeller	PPS-GF40
Shaft	X30Cr13
Bearing	Carbon, antimony-impregnated

Hydraulic Data

Max Operating Pressure PN	145 PSI
Min. Suction Head (122°F)	7.1 PSI
Min. Suction Head (203°F)	17.1 PSI
Min. Suction Head (230°F)	25.6 PSI
Min. Fluid Temp.	14°F
Max Fluid Temp.	230°F
Min. Ambient Temp	14°F
Max. Ambient Temp	104°F

Motor Data

Mains Connection	1~230-240 V ±10%, 50/60Hz
Motor Type	ECM
Rated Power P ₂	0.763 hp
Min. Speed n _{min}	450 RPM
Max. Speed n _{max}	3850 RPM
Power Consumption P _{1,max}	0.860 hp
Power Consumption P _{1,min}	0.013 hp
Max Current (1~230V) I _{max}	2.82 A
Min Current (1~230V) I _{min}	0.2 A
Insulation Class	F
Protection Class	Enclosure 2

CIF Module Selection

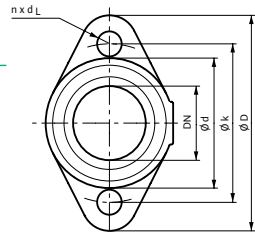
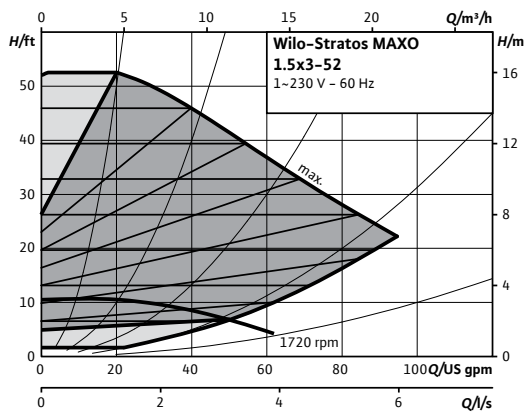
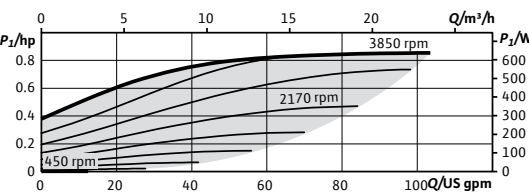
- BACnet MS/TP
- Modbus RTU
- CANopen
- LON TP/FT-10
- PLR

Accessory Selection

- Immersion Temp. Sensor Pt 1000 AA
- Immersion Sleeve G ½", 45mm
- Pipe Surface Contact Sensor PT 1000 B
- Immersion Sleeve G ½", 100mm

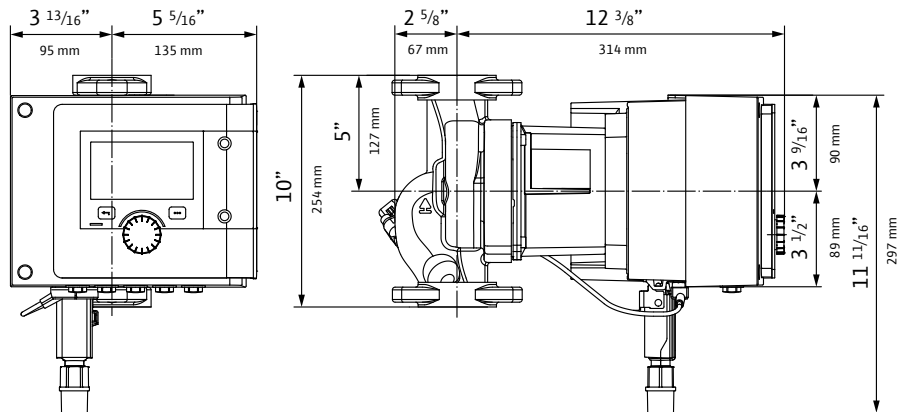
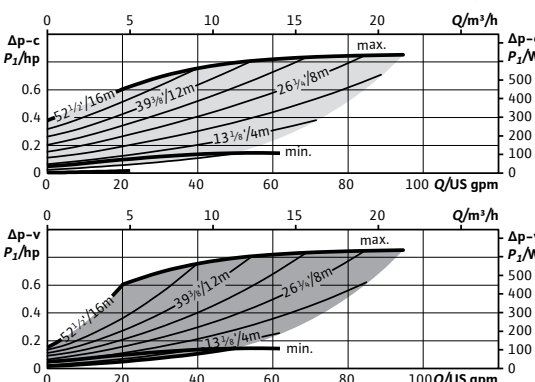
Electrical Inputs

Analog Inputs (2x)	0-10V / 0-20mA / 4-20mA / PT 1000 Passive/Active +24V DC
Digital Inputs (2x)	Ext Off / Ext Min / Ext Max / Ext. MANUAL (BMS off) / External Key Lock / Switch heating, cooling
Wilo NET	Multi-Pump Communication
SSM	Fault Signal
SBM	Run Signal



Installation Dimensions

Pipe Connection (discharge)	1 ½"
Pipe Connection (suction)	1 ½"
Flange to Flange	10"

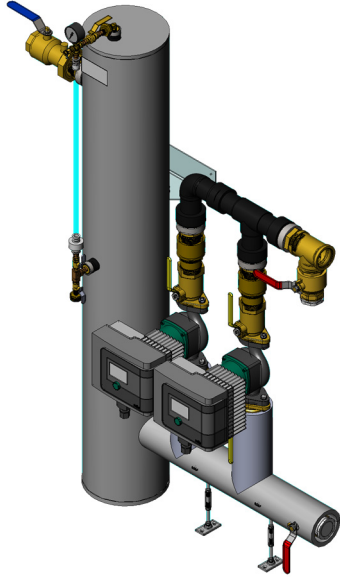


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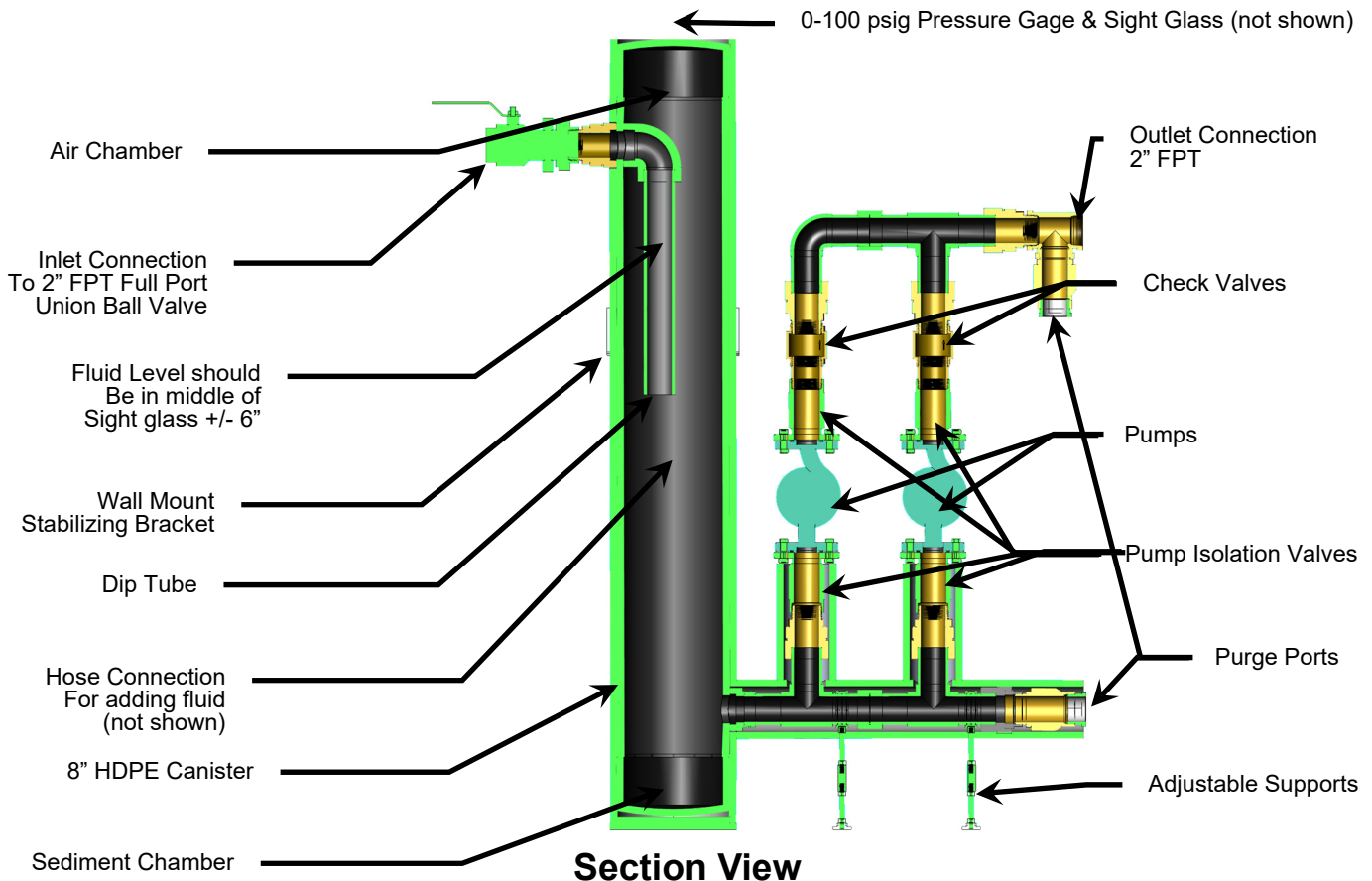
The GX series of flow centers operates like and with all the benefits of a non-pressurized flow center with added features, including the ability to operate at pressures up to 100 psig. Designed for use in multiple heat pump geothermal applications, properly installed, the GX is self-regulated, using the minimum power necessary for supplying the optimal flow rate to each running heat pump (regardless of size or proximity to flow center). Using the WILO MAXO Pump the GX captures the benefits of state-of-the-art ECM variable speed pump technology.

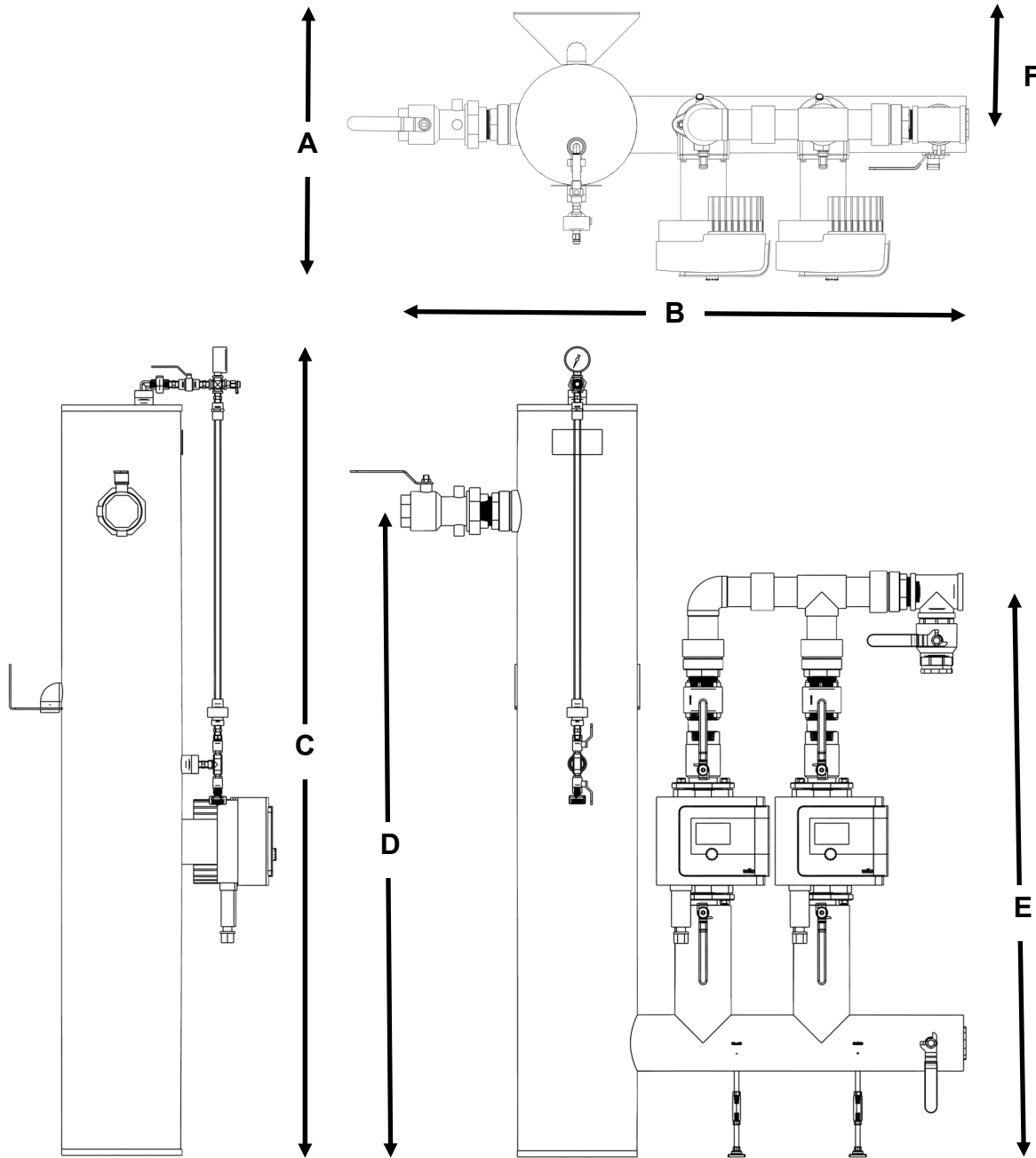


GX8BHD-22

Features:

- Electronically Commutated Motor (ECM) Variable Speed Pump Technology
- Lowest Energy Consumption per Ton of Heat Pump Capacity
- Available in 4 Configurations:
 - Basic - Single Pump
 - Dual - Two Pumps in Parallel (either Full or Partial Redundancy)
 - Primary/Secondary - Two Pumps (Primary for Loop Field & Secondary for Heat Pumps)
 - Dual Primary/Secondary - Four Pumps (Two Primary & Two Secondary)
- Non-Pressurized but capable of being pressurized Flow Center
- Sealed High-Density Polyethylene Insulated Canister
- Air Separation Chamber
- 0-100 psig pressure gauge
- Sight Glass to indicate proper fill level
- FPT Brass or Flanged Inlet & Outlet Connections
- Stabilizing Wall Mounting Bracket
- Purge Ports and hose bib connection for Easy Fill & Maintenance
- GV Zone Monitor (GVZM) Accessory, a cost-effective way to further reduce energy consumption by disabling pump when no heat pumps are running
- Engineering Support for system design
- 3 Year Limited Warranty

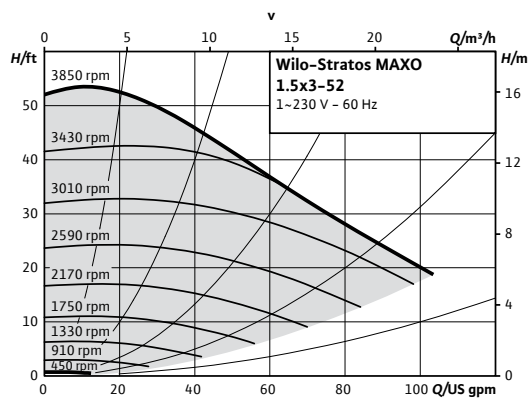




		ft - in	mm
A	Depth	1' 9 3/8"	543
B	Width	3' 9 1/8"	1151
C	Height	5' 4 7/8"	1649
D	Inlet Height	4' 3 3/4"	1313
E	Outlet Height	3' 9 1/4"	1149
F	Centerline from wall	0' 9"	228
	Inlet Connection	2" FPT	
	Outlet Connection	2" FPT	
	Purge Port Connection	2" FPT	

Wilo-Stratos MAXO

		Project:					
		Engineer:					
		Contractor:					
		Submitted By:			Date:		
		Approved By:			Date:		
Tag #	Model #	Flow	Head	Control Mode	Cycle	Phase	Voltage
	Maxo 1.5x3-52				60Hz	1~	230-240V



Product Info

Brand	Wilo
Product Description	Stratos MAXO 1.5x3-52
Article Number	2164612
Net Weight (approx.)	36 lbs

Materials

Pump Housing	EN-GJL-250
Impeller	PPS-GF40
Shaft	X30Cr13
Bearing	Carbon, antimony-impregnated

Hydraulic Data

Max Operating Pressure PN	145 PSI
Min. Suction Head (122°F)	7.1 PSI
Min. Suction Head (203°F)	17.1 PSI
Min. Suction Head (230°F)	25.6 PSI
Min. Fluid Temp.	14°F
Max Fluid Temp.	230°F
Min. Ambient Temp	14°F
Max. Ambient Temp	104°F

Motor Data

Mains Connection	1~230-240 V ±10%, 50/60Hz
Motor Type	ECM
Rated Power P ₂	0.763 hp
Min. Speed n _{min}	450 RPM
Max. Speed n _{max}	3850 RPM
Power Consumption P _{1,max}	0.860 hp
Power Consumption P _{1,min}	0.013 hp
Max Current (1~230V) I _{max}	2.82 A
Min Current (1~230V) I _{min}	0.2 A
Insulation Class	F
Protection Class	Enclosure 2

CIF Module Selection

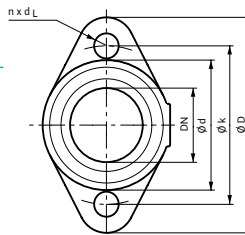
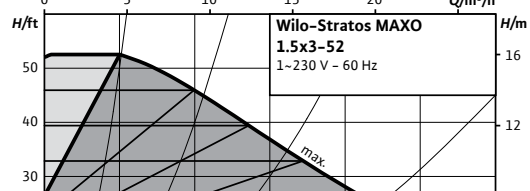
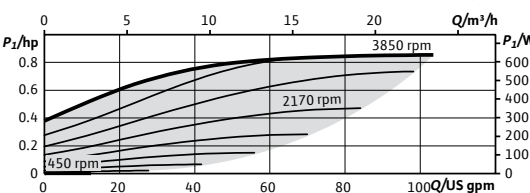
- BACnet MS/TP
- Modbus RTU
- CANopen
- LON TP/FT-10
- PLR

Accessory Selection

- Immersion Temp. Sensor Pt 1000 AA
- Immersion Sleeve G ½", 45mm
- Pipe Surface Contact Sensor PT 1000 B
- Immersion Sleeve G ½", 100mm

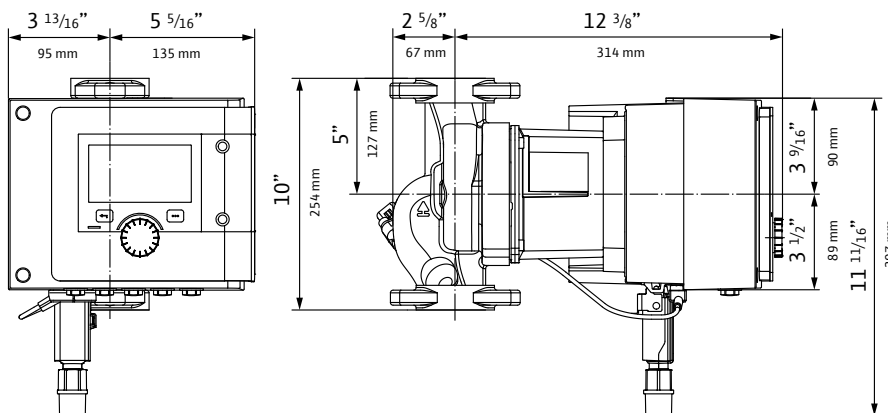
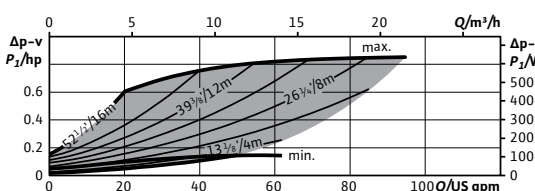
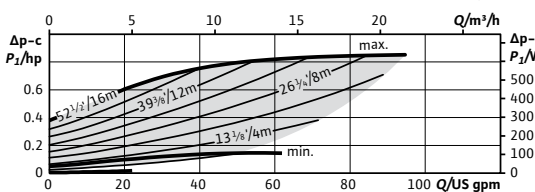
Electrical Inputs

Analog Inputs (2x)	0-10V / 0-20mA / 4-20mA / PT 1000 Passive/Active +24V DC
Digital Inputs (2x)	Ext Off / Ext Min / Ext Max / Ext. MANUAL (BMS off) / External Key Lock / Switch heating, cooling
Wilo NET	Multi-Pump Communication
SSM	Fault Signal
SBM	Run Signal



Installation Dimensions

Pipe Connection (discharge)	1 ½"
Pipe Connection (suction)	1 ½"
Flange to Flange	10"

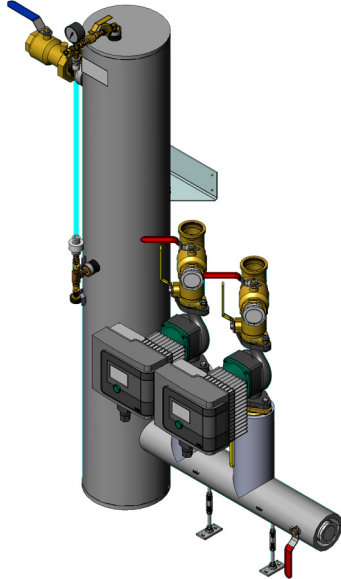


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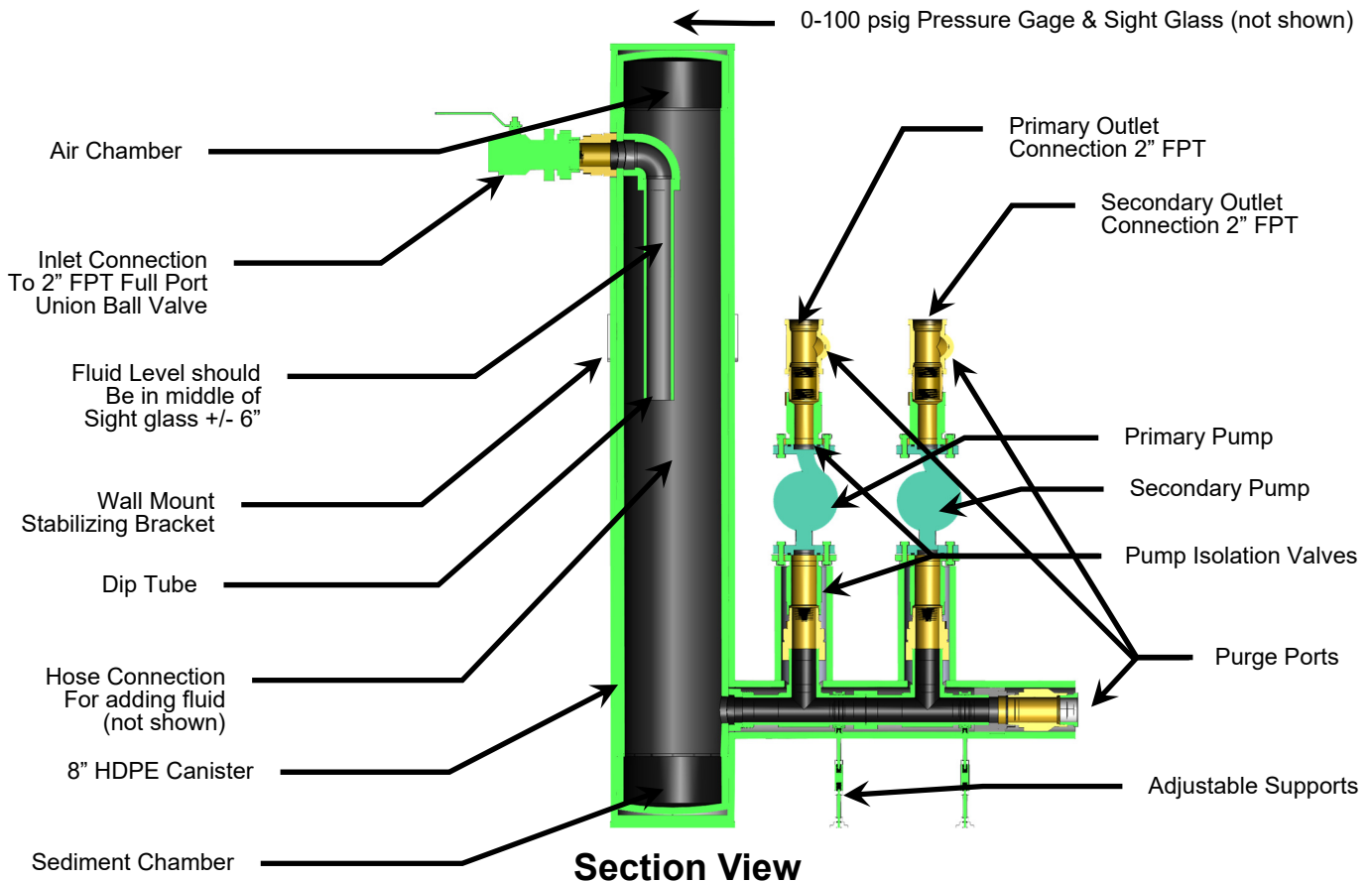
The GX series of flow centers operates like and with all the benefits of a non-pressurized flow center with added features, including the ability to operate at pressures up to 100 psig. Designed for use in multiple heat pump geothermal applications, properly installed, the GX is self-regulated, using the minimum power necessary for supplying the optimal flow rate to each running heat pump (regardless of size or proximity to flow center). Using the WILO MAXO Pump the GX captures the benefits of state-of-the-art ECM variable speed pump technology.

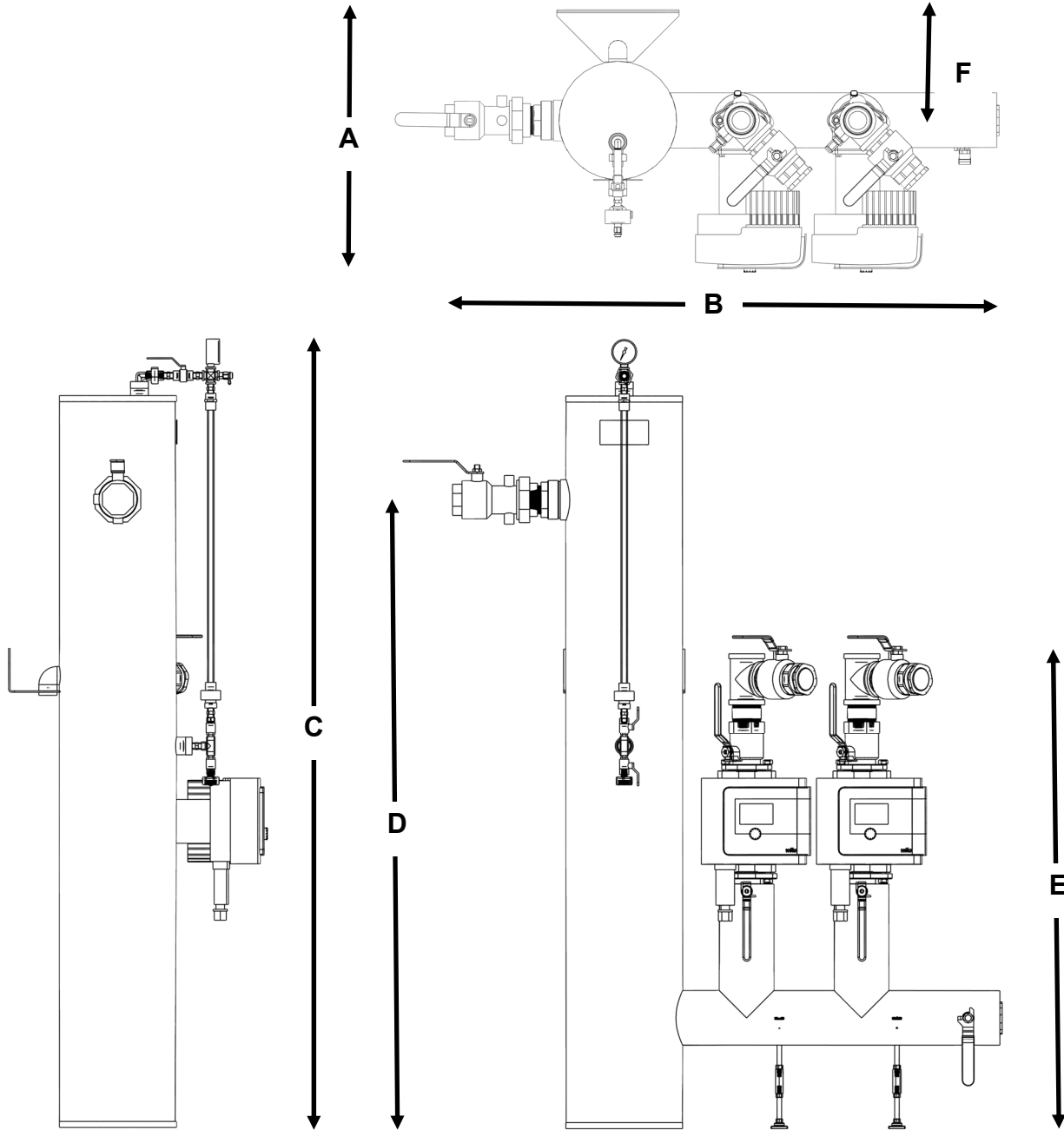


GX8BHP-22

Features:

- Electronically Commutated Motor (ECM) Variable Speed Pump Technology
- Lowest Energy Consumption per Ton of Heat Pump Capacity
- Available in 4 Configurations:
 - Basic - Single Pump
 - Dual - Two Pumps in Parallel (either Full or Partial Redundancy)
 - Primary/Secondary - Two Pumps (Primary for Loop Field & Secondary for Heat Pumps)
 - Dual Primary/Secondary - Four Pumps (Two Primary & Two Secondary)
- Non-Pressurized but capable of being pressurized Flow Center
- Sealed High-Density Polyethylene Insulated Canister
- Air Separation Chamber
- 0-100 psig pressure gauge
- Sight Glass to indicate proper fill level
- FPT Brass or Flanged Inlet & Outlet Connections
- Stabilizing Wall Mounting Bracket
- Purge Ports and hose bib connection for Easy Fill & Maintenance
- GV Zone Monitor (GVZM) Accessory, a cost-effective way to further reduce energy consumption by disabling pump when no heat pumps are running
- Engineering Support for system design
- 3 Year Limited Warranty

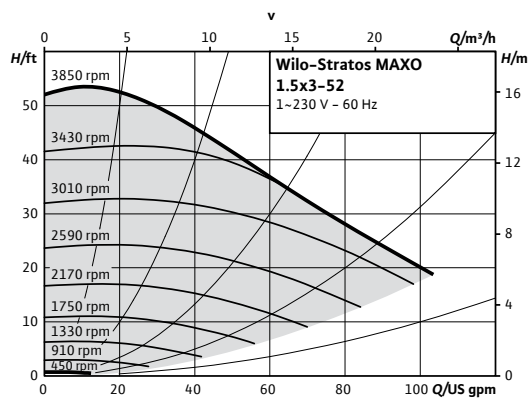




		ft - in	mm
A	Depth	1' 9 3/8"	543
B	Width	3' 9 1/8"	1151
C	Height	5' 7/8"	1649
D	Inlet Height	4' 3 3/4"	1313
E	Outlet Height	3' 3"	992
F	Centerline from wall	0' 9"	229
	Inlet Connection	2" FPT	
	Outlet Connection	2" FPT	
	Purge Port Connection	2" FPT	

Wilo-Stratos MAXO

		Project:					
		Engineer:					
		Contractor:					
		Submitted By:			Date:		
		Approved By:			Date:		
Tag #	Model #	Flow	Head	Control Mode	Cycle	Phase	Voltage
	Maxo 1.5x3-52				60Hz	1~	230-240V



Product Info

Brand	Wilo
Product Description	Stratos MAXO 1.5x3-52
Article Number	2164612
Net Weight (approx.)	36 lbs

Materials

Pump Housing	EN-GJL-250
Impeller	PPS-GF40
Shaft	X30Cr13
Bearing	Carbon, antimony-impregnated

Hydraulic Data

Max Operating Pressure PN	145 PSI
Min. Suction Head (122°F)	7.1 PSI
Min. Suction Head (203°F)	17.1 PSI
Min. Suction Head (230°F)	25.6 PSI
Min. Fluid Temp.	14°F
Max Fluid Temp.	230°F
Min. Ambient Temp	14°F
Max. Ambient Temp	104°F

Motor Data

Mains Connection	1~230-240 V ±10%, 50/60Hz
Motor Type	ECM
Rated Power P ₂	0.763 hp
Min. Speed n _{min}	450 RPM
Max. Speed n _{max}	3850 RPM
Power Consumption P _{1,max}	0.860 hp
Power Consumption P _{1,min}	0.013 hp
Max Current (1~230V) I _{max}	2.82 A
Min Current (1~230V) I _{min}	0.2 A
Insulation Class	F
Protection Class	Enclosure 2

CIF Module Selection

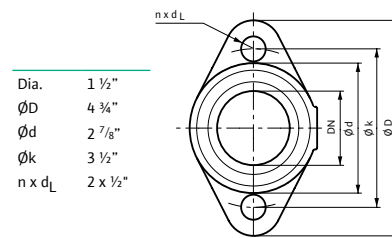
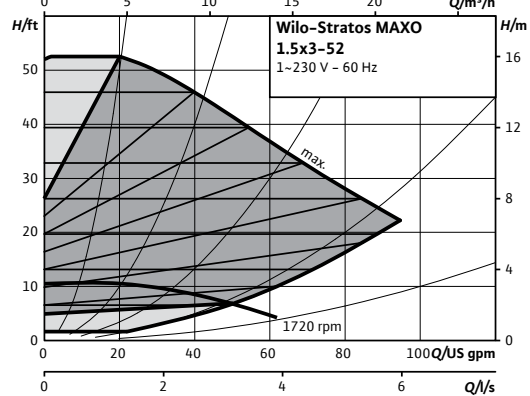
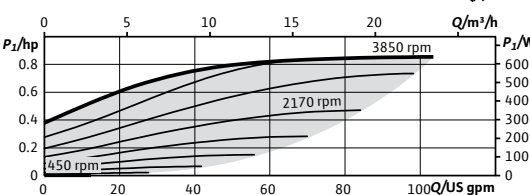
- BACnet MS/TP
- Modbus RTU
- CANopen
- LON TP/FT-10
- PLR

Accessory Selection

- Immersion Temp. Sensor Pt 1000 AA
- Immersion Sleeve G ½", 45mm
- Pipe Surface Contact Sensor PT 1000 B
- Immersion Sleeve G ½", 100mm

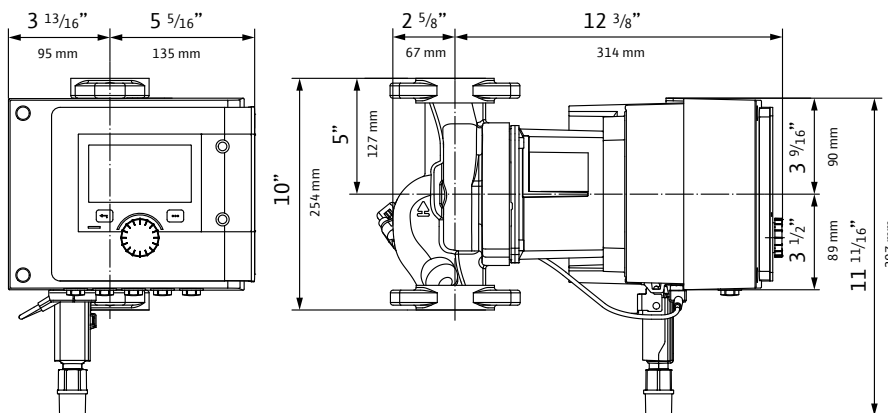
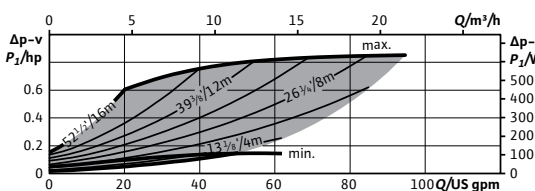
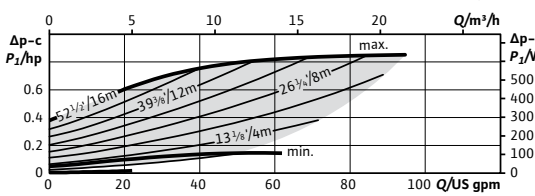
Electrical Inputs

Analog Inputs (2x)	0-10V / 0-20mA / 4-20mA / PT 1000 Passive/Active +24V DC
Digital Inputs (2x)	Ext Off / Ext Min / Ext Max / Ext. MANUAL (BMS off) / External Key Lock / Switch heating, cooling
Wilo NET	Multi-Pump Communication
SSM	Fault Signal
SBM	Run Signal



Installation Dimensions

- Pipe Connection (discharge) 1 ½"
- Pipe Connection (suction) 1 ½"
- Flange to Flange 10"

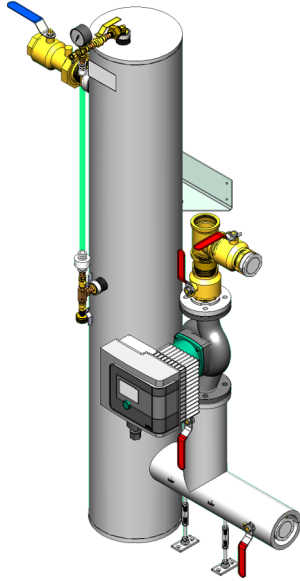


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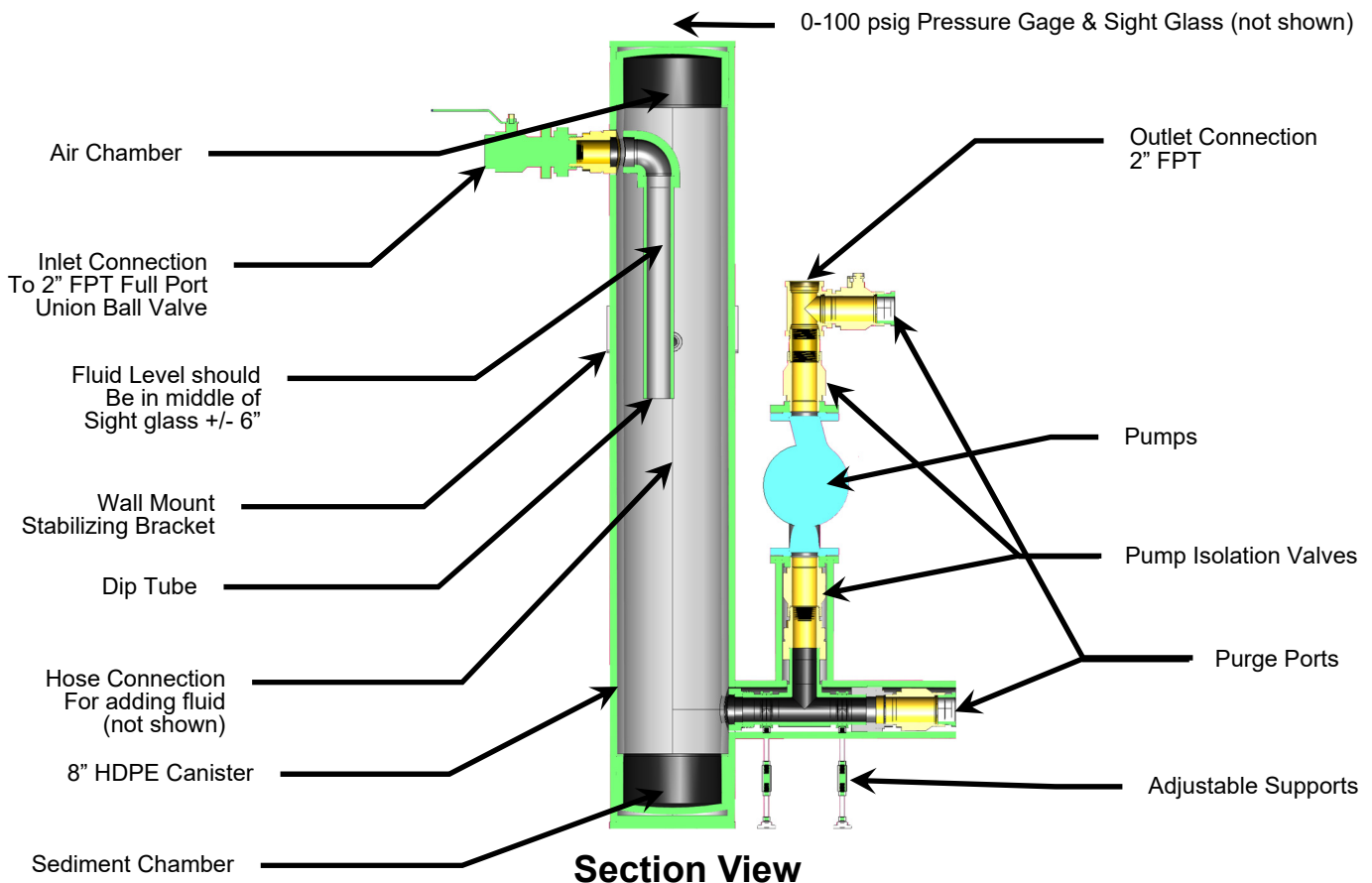
The GX series of flow centers operates like and with all the benefits of a non-pressurized flow center with added features, including the ability to operate at pressures up to 100 psig. Designed for use in multiple heat pump geothermal applications, properly installed, the GX is self-regulated, using the minimum power necessary for supplying the optimal flow rate to each running heat pump (regardless of size or proximity to flow center). Using the WILO MAXO Pump the GX captures the benefits of state-of-the-art ECM variable speed pump technology.

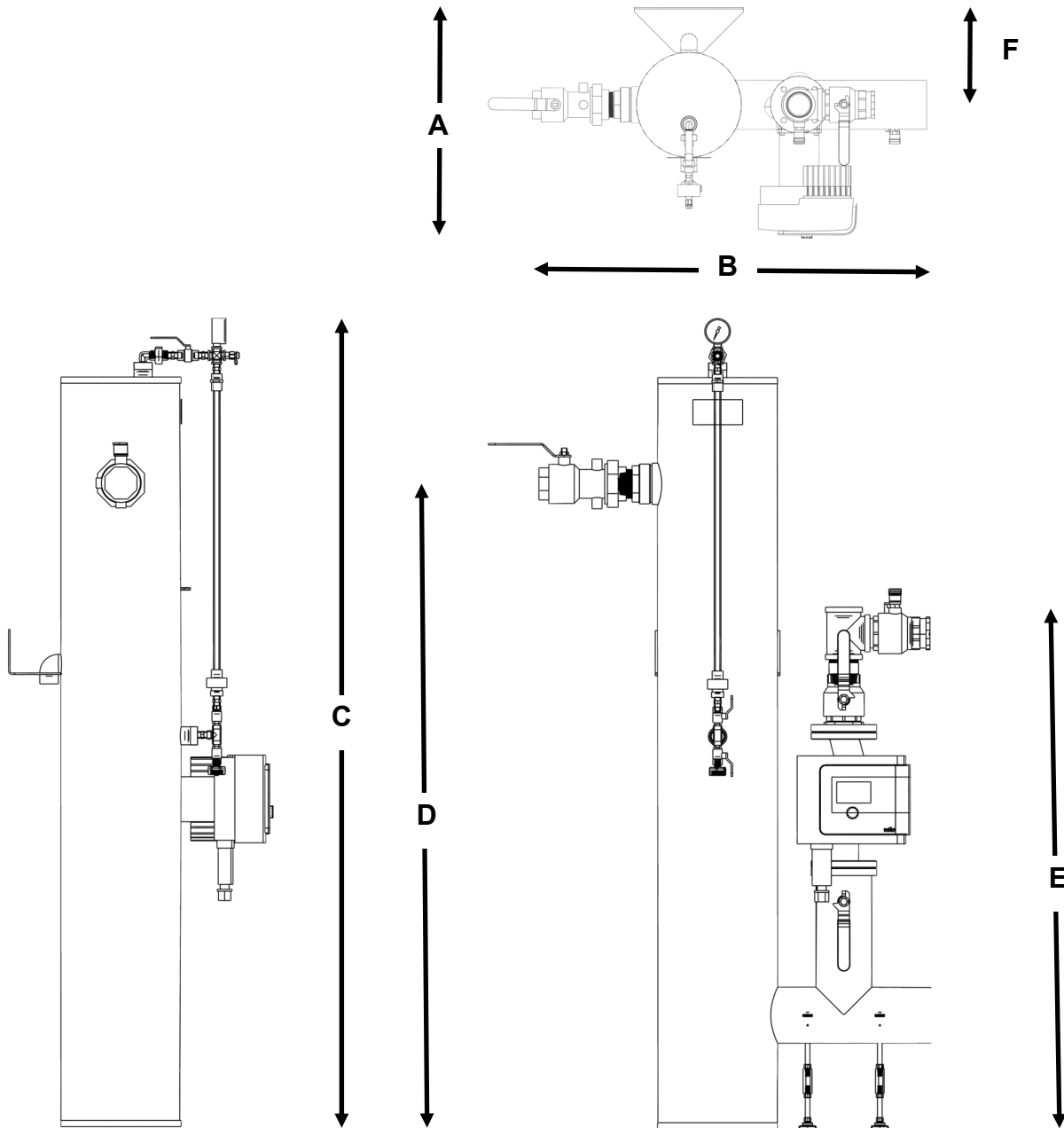


GX8CEB-22

Features:

- Electronically Commutated Motor (ECM) Variable Speed Pump Technology
- Lowest Energy Consumption per Ton of Heat Pump Capacity
- Available in 4 Configurations:
 - Basic - Single Pump
 - Dual - Two Pumps in Parallel (either Full or Partial Redundancy)
 - Primary/Secondary - Two Pumps (Primary for Loop Field & Secondary for Heat Pumps)
 - Dual Primary/Secondary - Four Pumps (Two Primary & Two Secondary)
- Non-Pressurized but capable of being pressurized Flow Center
- Sealed High-Density Polyethylene Insulated Canister
- Air Separation Chamber
- 0-100 psig pressure gauge
- Sight Glass to indicate proper fill level
- FPT Brass or Flanged Inlet & Outlet Connections
- Stabilizing Wall Mounting Bracket
- Purge Ports and hose bib connection for Easy Fill & Maintenance
- GV Zone Monitor (GVZM) Accessory, a cost-effective way to further reduce energy consumption by disabling pump when no heat pumps are running
- Engineering Support for system design
- 3 Year Limited Warranty





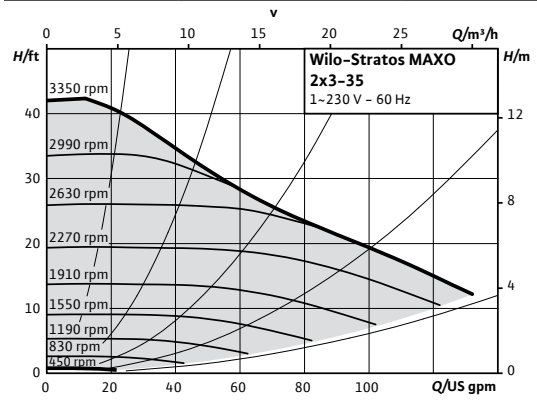
		ft - in	mm
A	Depth	1' 9 3/8"	539
B	Width	3' 9 1/8"	917
C	Height	5' 4 7/8"	1650
D	Inlet Height	4' 3 3/4"	1313
E	Outlet Height	3' 9 1/4"	1062
F	Centerline from wall	0' 9"	229
	Inlet Connection	2" FPT	
	Outlet Connection	2" FPT	
	Purge Port Connection	2" FPT	

Wilo-Stratos MAXO



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

Tag #	Model #	Flow	Head	Control Mode	Cycle	Phase	Voltage
	Maxo 2x3-35				60Hz	1~	230-240V



Product Info

Brand	Wilo
Product Description	Stratos MAXO 2x3-35
Article Number	2164615
Net Weight (approx.)	41 lbs

Materials

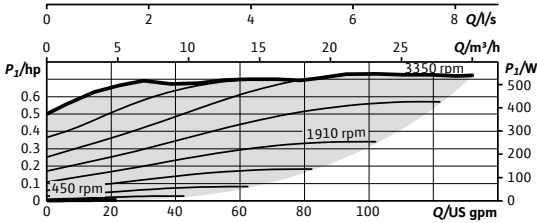
Pump Housing	EN-GJL-250
Impeller	PPS-GF40
Shaft	X30Cr13
Bearing	Carbon, antimony-impregnated

Hydraulic Data

Max Operating Pressure PN	145 PSI
Min. Suction Head (122°F)	7.1 PSI
Min. Suction Head (203°F)	17.1 PSI
Min. Suction Head (230°F)	25.6 PSI
Min. Fluid Temp.	14°F
Max Fluid Temp.	230°F
Min. Ambient Temp	14°F
Max. Ambient Temp	104°F

Motor Data

Mains Connection	1-230-240 V ±10%, 50/60Hz
Motor Type	ECM
Rated Power P ₂	0.652 hp
Min. Speed n _{min}	450 RPM
Max. Speed n _{max}	3550 RPM
Power Consumption P _{1,max}	0.734 hp
Power Consumption P _{1,min}	0.013 hp
Max Current (1-230V) I _{max}	2.39 A
Min Current (1-230V) I _{min}	0.2 A
Insulation Class	F
Protection Class	Enclosure 2



CIF Module Selection

BACnet MS/TP	
Modbus RTU	
CANopen	
LON TP/FT-10	
PLR	

Accessory Selection

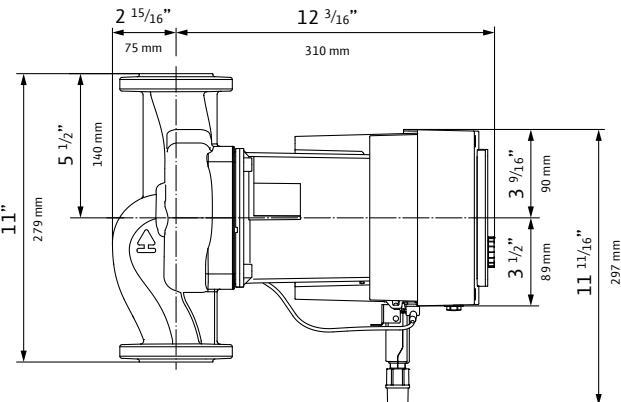
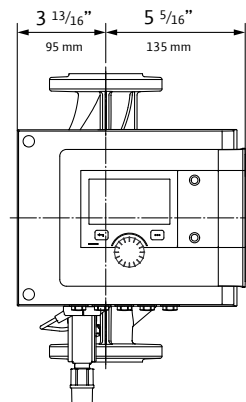
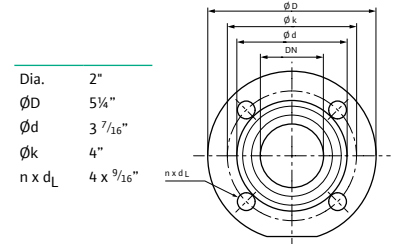
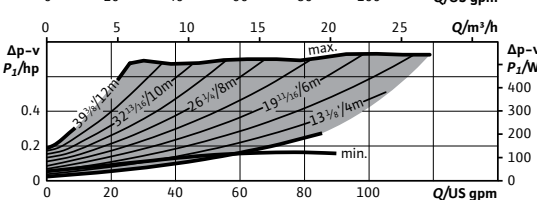
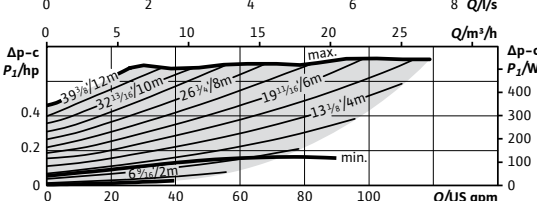
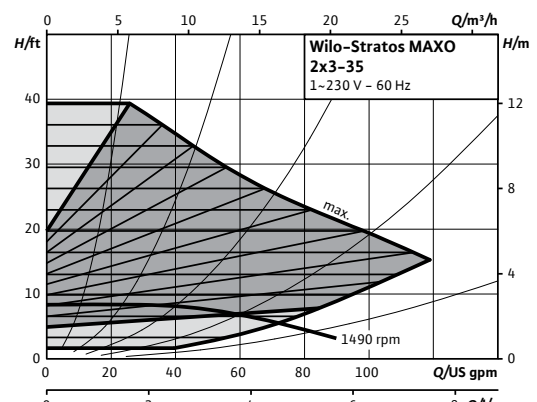
Immersion Temp. Sensor PT 1000 AA	
Immersion Sleeve G 1/2", 45mm	
Pipe Surface Contact Sensor PT 1000 B	
Immersion Sleeve G 1/2", 100mm	

Electrical Inputs

Analog Inputs (2x)	0-10V / 0-20mA / 4-20mA / PT 1000 Passive/Active +24V DC
Digital Inputs (2x)	Ext Off / Ext Min / Ext Max / Ext. MANUAL (BMS off) / External Key Lock / Switch heating, cooling
Wilo NET	Multi-Pump Communication
SSM	Fault Signal
SBM	Run Signal

Installation Dimensions

Pipe Connection (discharge)	2"
Pipe Connection (suction)	2"
Flange to Flange	11"

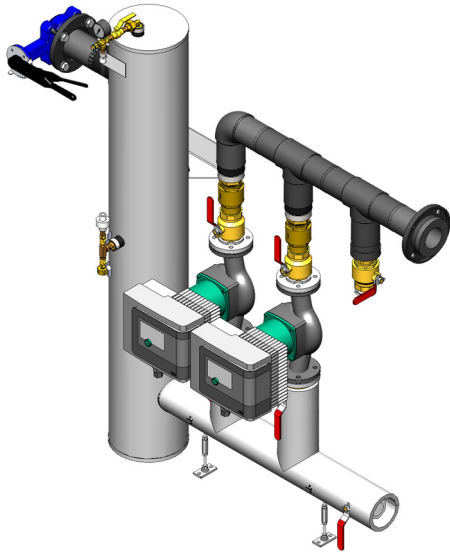


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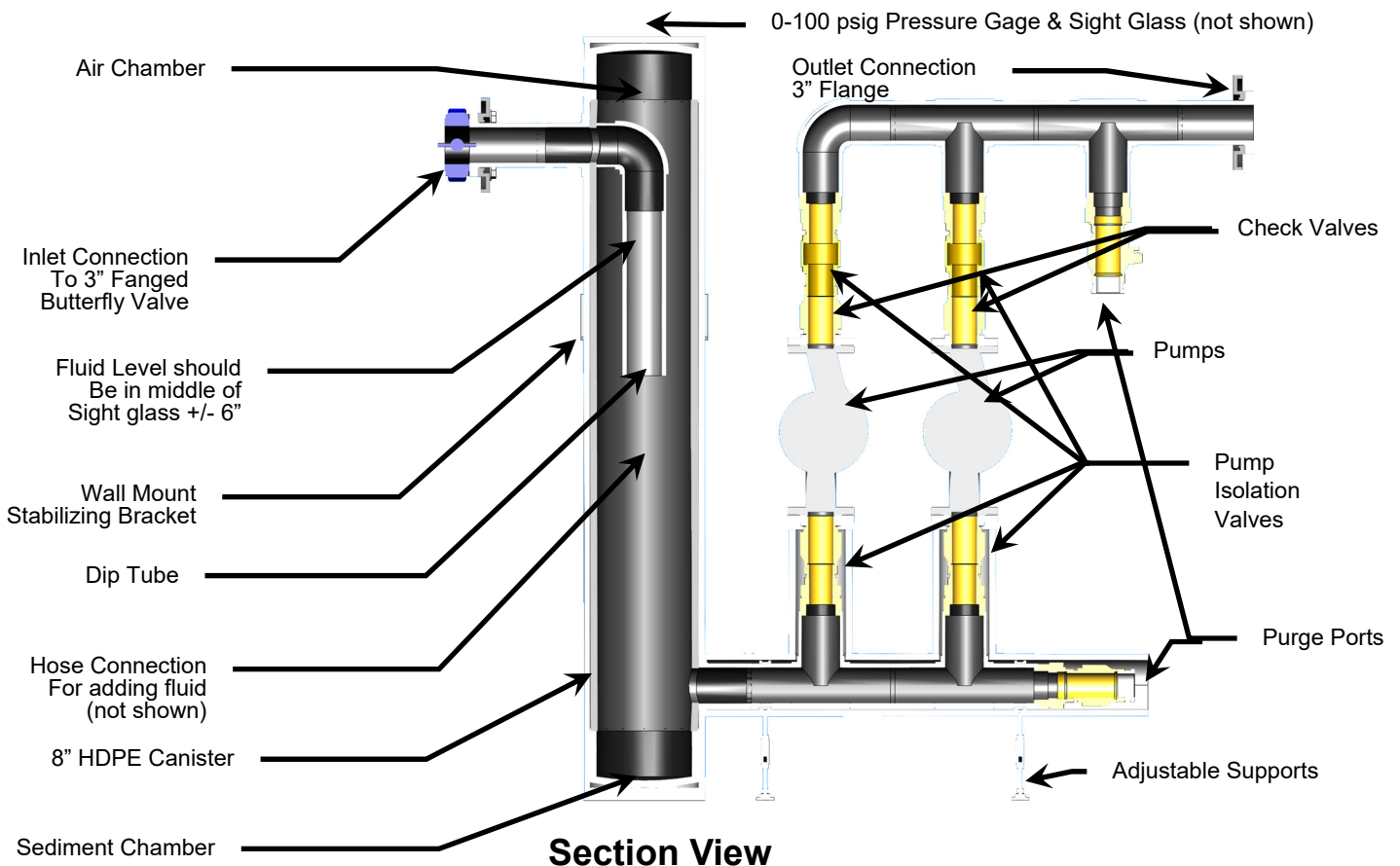
The GX series of flow centers operates like and with all the benefits of a non-pressurized flow center with added features, including the ability to operate at pressures up to 100 psig. Designed for use in multiple heat pump geothermal applications, properly installed, the GX is self-regulated, using the minimum power necessary for supplying the optimal flow rate to each running heat pump (regardless of size or proximity to flow center). Using the WILO MAXO Pump the GX captures the benefits of state-of-the-art ECM variable speed pump technology.

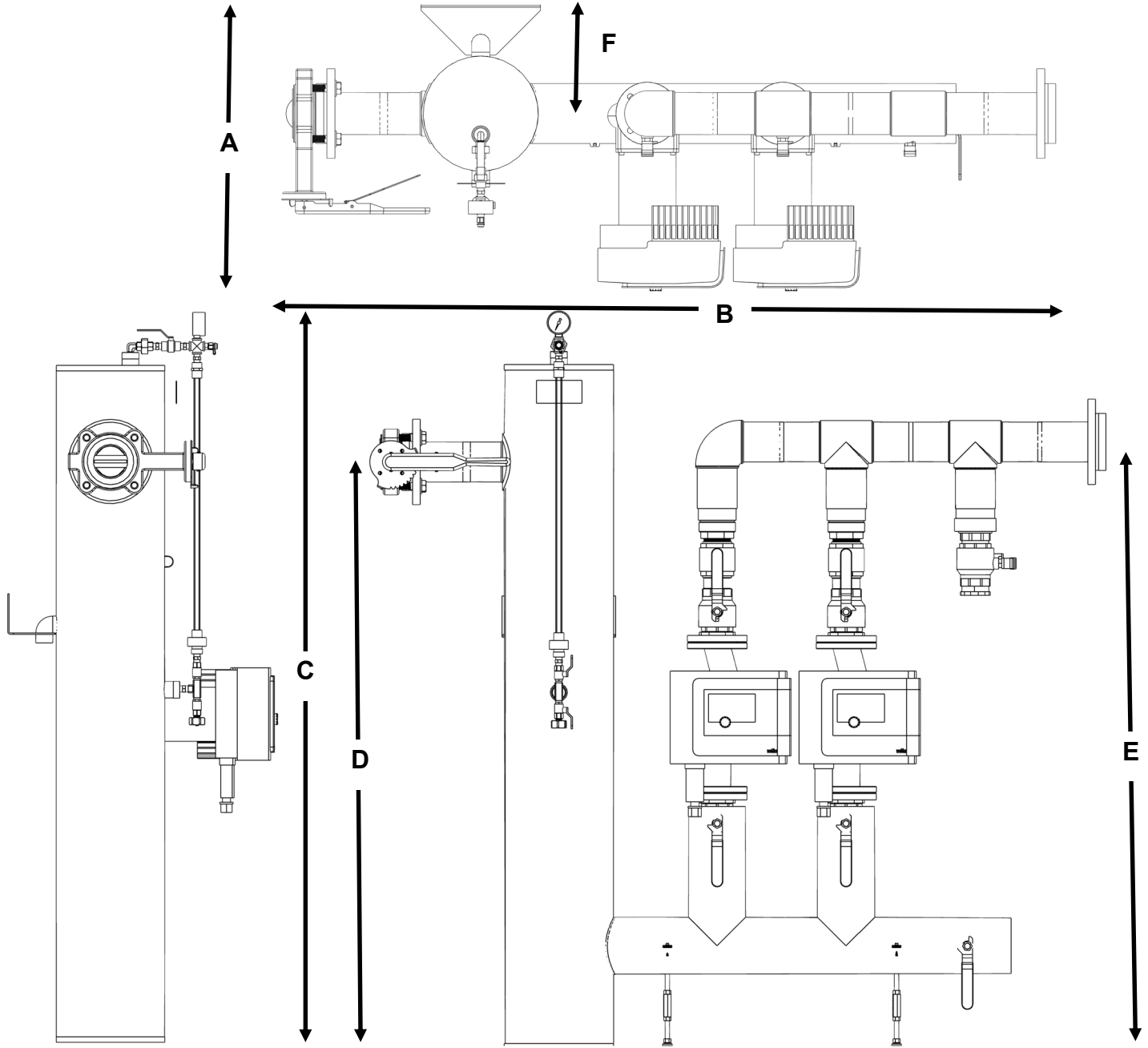


GX8CGD-33

Features:

- Electronically Commutated Motor (ECM) Variable Speed Pump Technology
- Lowest Energy Consumption per Ton of Heat Pump Capacity
- Available in 4 Configurations:
 - Basic - Single Pump
 - Dual - Two Pumps in Parallel (either Full or Partial Redundancy)
 - Primary/Secondary - Two Pumps (Primary for Loop Field & Secondary for Heat Pumps)
 - Dual Primary/Secondary - Four Pumps (Two Primary & Two Secondary)
- Non-Pressurized but capable of being pressurized Flow Center
- Sealed High-Density Polyethylene Insulated Canister
- Air Separation Chamber
- 0-100 psig pressure gauge
- Sight Glass to indicate proper fill level
- FPT Brass or Flanged Inlet & Outlet Connections
- Stabilizing Wall Mounting Bracket
- Purge Ports and hose bib connection for Easy Fill & Maintenance
- GV Zone Monitor (GVZM) Accessory, a cost-effective way to further reduce energy consumption by disabling pump when no heat pumps are running
- Engineering Support for system design
- 3 Year Limited Warranty

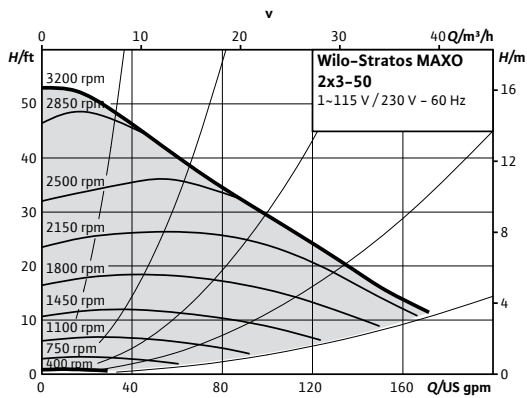




		ft - in	mm
A	Depth	2' 0"	609
B	Width	5' 3 7/8"	1621
C	Height	5' 4 7/8"	1649
D	Inlet Height	4' 3 5/8"	1312
E	Outlet Height	4' 5 3/8"	1357
F	Centerline from wall	0' 9 1/8"	232
	Inlet Connection	3" Flange	
	Outlet Connection	3" Flange	
	Purge Port Connection	2" FPT	

Wilo-Stratos MAXO

		Project:					
		Engineer:					
		Contractor:					
		Submitted By:			Date:		
		Approved By:			Date:		
Tag #	Model #	Flow	Head	Control Mode	Cycle	Phase	Voltage
	Maxo 2x3-50				60Hz	1~	115/230-240V



Product Info

Brand	Wilo
Product Description	Stratos MAXO 2x3-50
Article Number	2164616
Net Weight (approx.)	64 lbs

Materials

Pump Housing	EN-GJL-250
Impeller	PPS-GF40
Shaft	X30Cr13
Bearing	Carbon, antimony-impregnated

Hydraulic Data

Max Operating Pressure PN	145 PSI
Min. Suction Head (122°F)	10 PSI
Min. Suction Head (203°F)	21.3 PSI
Min. Suction Head (230°F)	32.7 PSI
Min. Fluid Temp.	14°F
Max Fluid Temp.	230°F
Min. Ambient Temp	14°F
Max. Ambient Temp	104°F

Motor Data

Mains Connection	1-115V ±10%, 50/60Hz 1-230-240V ±10%, 50/60Hz
Motor Type	ECM
Rated Power P ₂	0.933 hp
Min. Speed n _{min}	400 RPM
Max. Speed n _{max}	3200 RPM
Power Consumption P _{3,max}	1.106 hp
Power Consumption P _{1,min}	0.027 hp
Max Current (1-230V) I _{max}	3.49 A
Min Current (1-230V) I _{min}	0.3 A
Max Current (1-115V) I _{max}	7.19 A
Min Current (1-115V) I _{min}	0.25 A
Insulation Class	F
Protection Class	Enclosure 2

CIF Module Selection

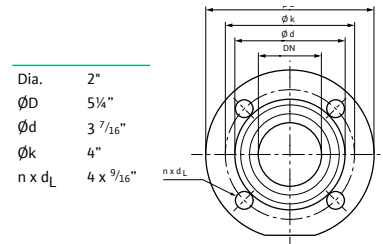
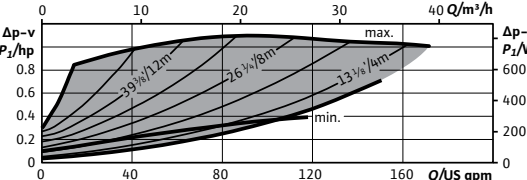
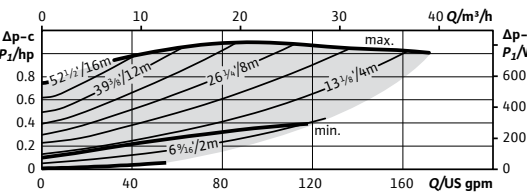
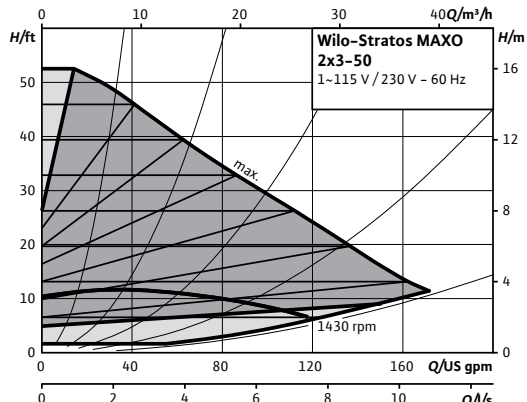
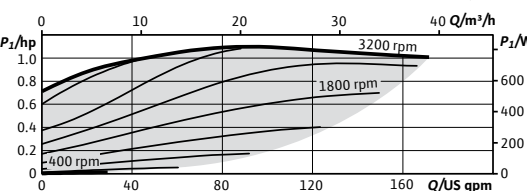
- BACnet MS/TP
- Modbus RTU
- CANopen
- LON TP/FT-10
- PLR

Accessory Selection

- Immersion Temp. Sensor PT 1000 AA
- Immersion Sleeve G 1/2", 45mm
- Pipe Surface Contact Sensor PT 1000 B
- Immersion Sleeve G 1/2", 100mm

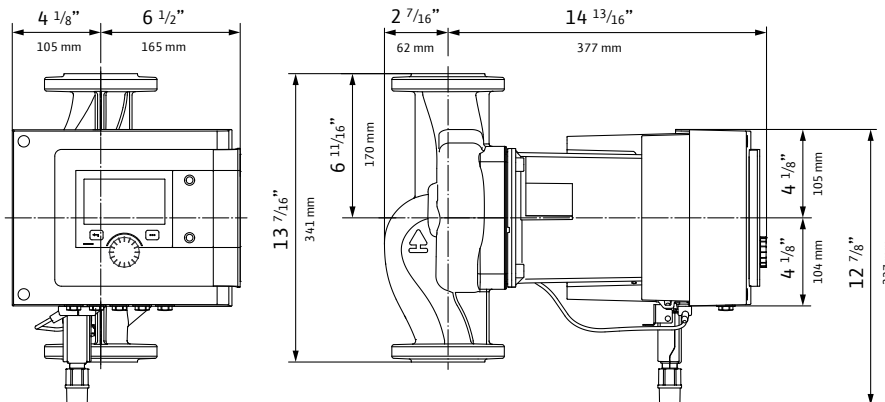
Electrical Inputs

- Analog Inputs (2x) 0-10V / 0-20mA / 4-20mA / PT 1000 Passive/Active +24V DC
- Digital Inputs (2x) Ext Off / Ext Min / Ext Max / Ext. MANUAL (BMS off) / External Key Lock / Switch heating, cooling
- Wilo NET Multi-Pump Communication
- SSM Fault Signal
- SBM Run Signal



Installation Dimensions

- Pipe Connection (discharge) 2"
- Pipe Connection (suction) 2"
- Flange to Flange 13 7/16"

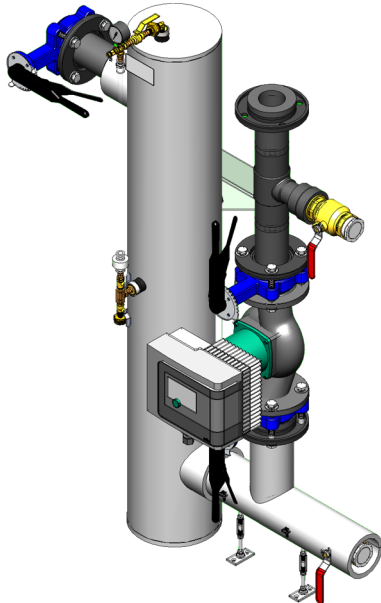


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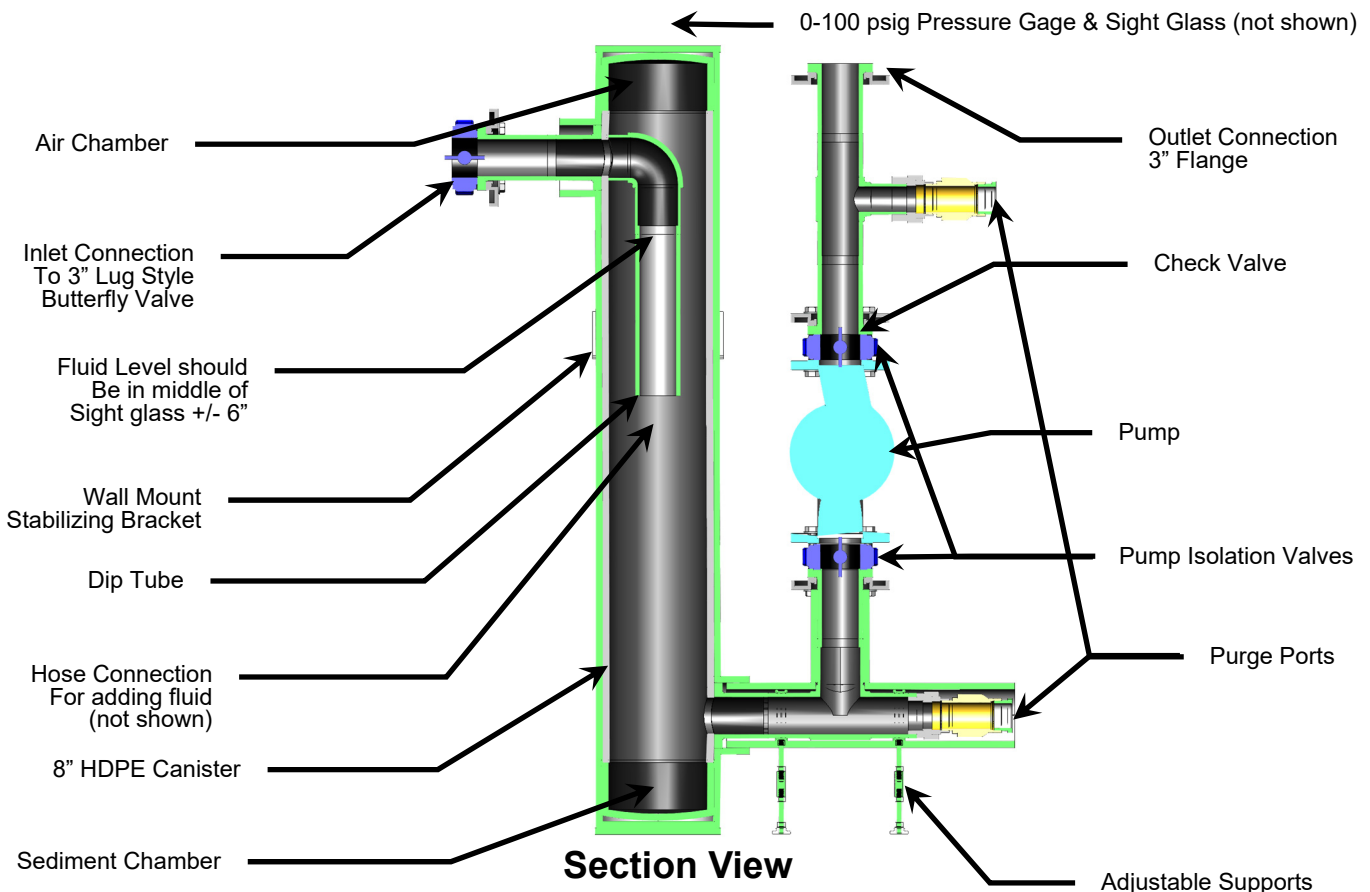
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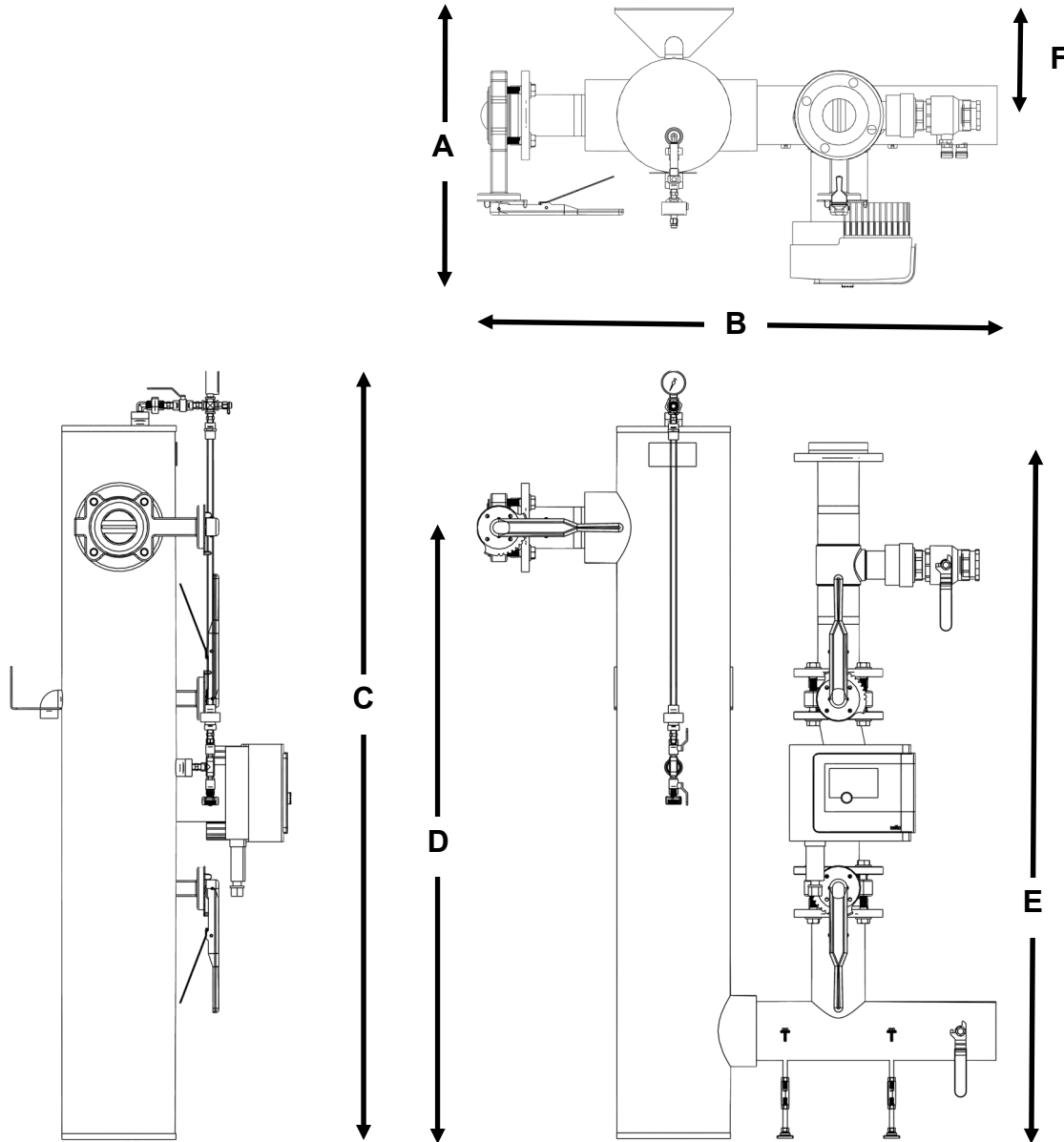


GX8DHB-33

Features:

- Electronically Commutated Motor (ECM) Variable Speed Pump Technology
- Lowest Energy Consumption per Ton of Heat Pump Capacity
- Available in 4 Configurations:
 - Basic - Single Pump
 - Dual - Two Pumps in Parallel (either Full or Partial Redundancy)
 - Primary/Secondary - Two Pumps (Primary for Loop Field & Secondary for Heat Pumps)
 - Dual Primary/Secondary - Four Pumps (Two Primary & Two Secondary)
- Non-Pressurized but capable of being pressurized Flow Center
- Sealed High-Density Polyethylene Insulated Canister
- Air Separation Chamber
- 0-100 psig pressure gauge
- Sight Glass to indicate proper fill level
- FPT Brass or Flanged Inlet & Outlet Connections
- Stabilizing Wall Mounting Bracket
- Purge Ports and hose bib connection for Easy Fill & Maintenance
- GV Zone Monitor (GVZM) Accessory, a cost-effective way to further reduce energy consumption by disabling pump when no heat pumps are running
- Engineering Support for system design
- 3 Year Limited Warranty





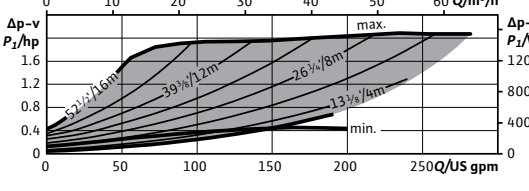
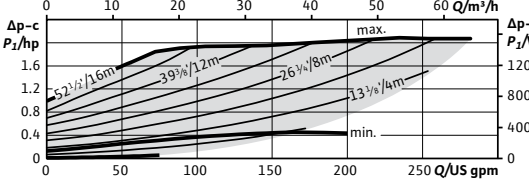
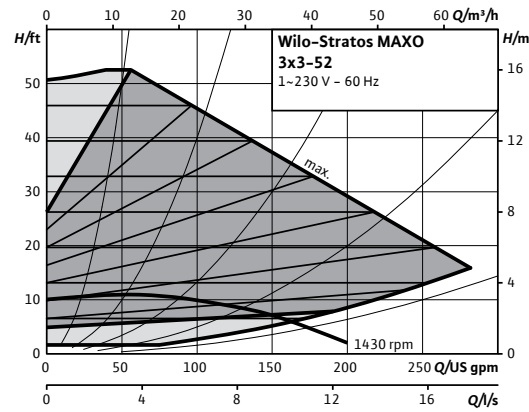
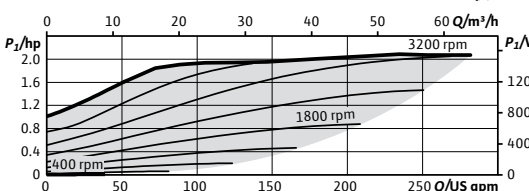
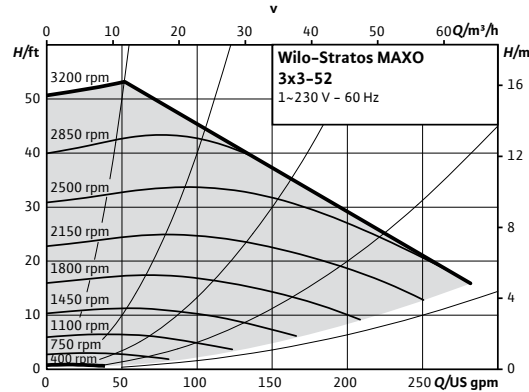
		ft - in	mm
A	Depth	1' 11 5/8"	599
B	Width	3' 6 7/8"	1090
C	Height	5' 5"	1649
D	Inlet Height	4' 3 5/8"	1312
E	Outlet Height	5' 10 7/8"	1495
F	Centerline from wall	0' 9 1/8"	232
	Inlet Connection	3" Flange	
	Outlet Connection	3" Flange	
	Purge Port Connection	2" FPT	

Wilo-Stratos MAXO



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

Tag #	Model #	Flow	Head	Control Mode	Cycle	Phase	Voltage
	Maxo 3x3-52				60Hz	1~	230-240V



Product Info

Brand	Wilo
Product Description	Stratos MAXO 3x3-52
Article Number	2164619
Net Weight (approx.)	72 lbs

Hydraulic Data

Max Operating Pressure PN	145 PSI
Min. Suction Head (122°F)	10 PSI
Min. Suction Head (203°F)	21.3 PSI
Min. Suction Head (230°F)	32.7 PSI
Min. Fluid Temp.	14°F
Max Fluid Temp.	230°F
Min. Ambient Temp	14°F
Max. Ambient Temp	104°F

CIF Module Selection

BACnet MS/TP	
Modbus RTU	
CANopen	
LON TP/FT-10	
PLR	

Accessory Selection

Immersion Temp. Sensor PT 1000 AA	
Immersion Sleeve G 1/2", 45mm	
Pipe Surface Contact Sensor PT 1000 B	
Immersion Sleeve G 1/2", 100mm	

Materials

Pump Housing	EN-GJL-250
Impeller	PPS-GF40
Shaft	X30Cr13
Bearing	Carbon, antimony-impregnated

Motor Data

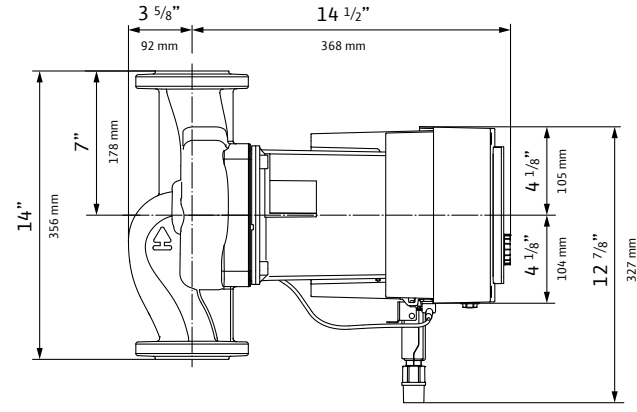
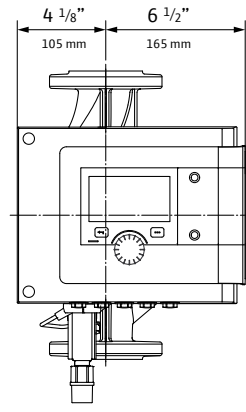
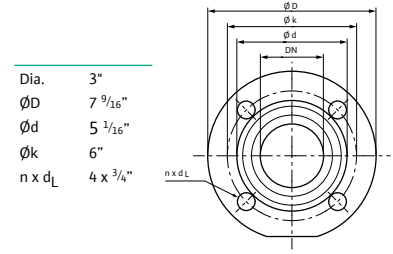
Mains Connection	1~230-240 V ±10%, 50/60Hz
Motor Type	EMC
Rated Power P ₂	2.038 hp
Min. Speed n _{min}	400 RPM
Max. Speed n _{max}	3200 RPM
Power Consumption P _{1,max}	2.206 hp
Power Consumption P _{1,min}	0.020 hp
Max Current (1~230V) I _{max}	7.14 A
Min Current (1~230V) I _{min}	0.3 A
Insulation Class	F
Protection Class	Enclosure 2

Electrical Inputs

Analog Inputs (2x)	0-10V / 0-20mA / 4-20mA / PT 1000 Passive/Active +24V DC
Digital Inputs (2x)	Ext Off / Ext Min / Ext Max / Ext. MANUAL (BMS off) / External Key Lock / Switch heating, cooling
Wilo NET	Multi-Pump Communication
SSM	Fault Signal
SBM	Run Signal

Installation Dimensions

Pipe Connection (discharge)	3"
Pipe Connection (suction)	3"
Flange to Flange	14"

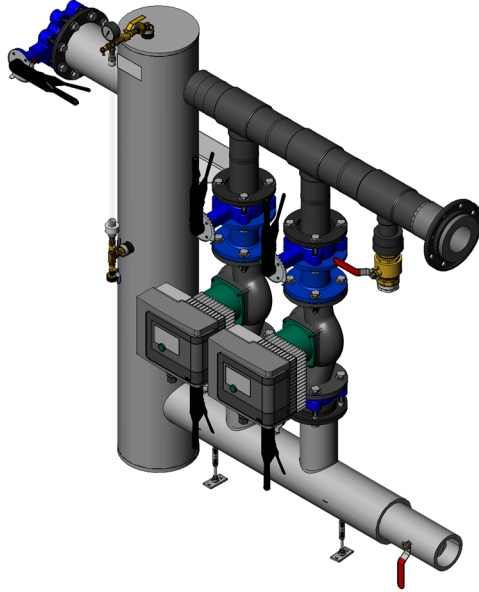


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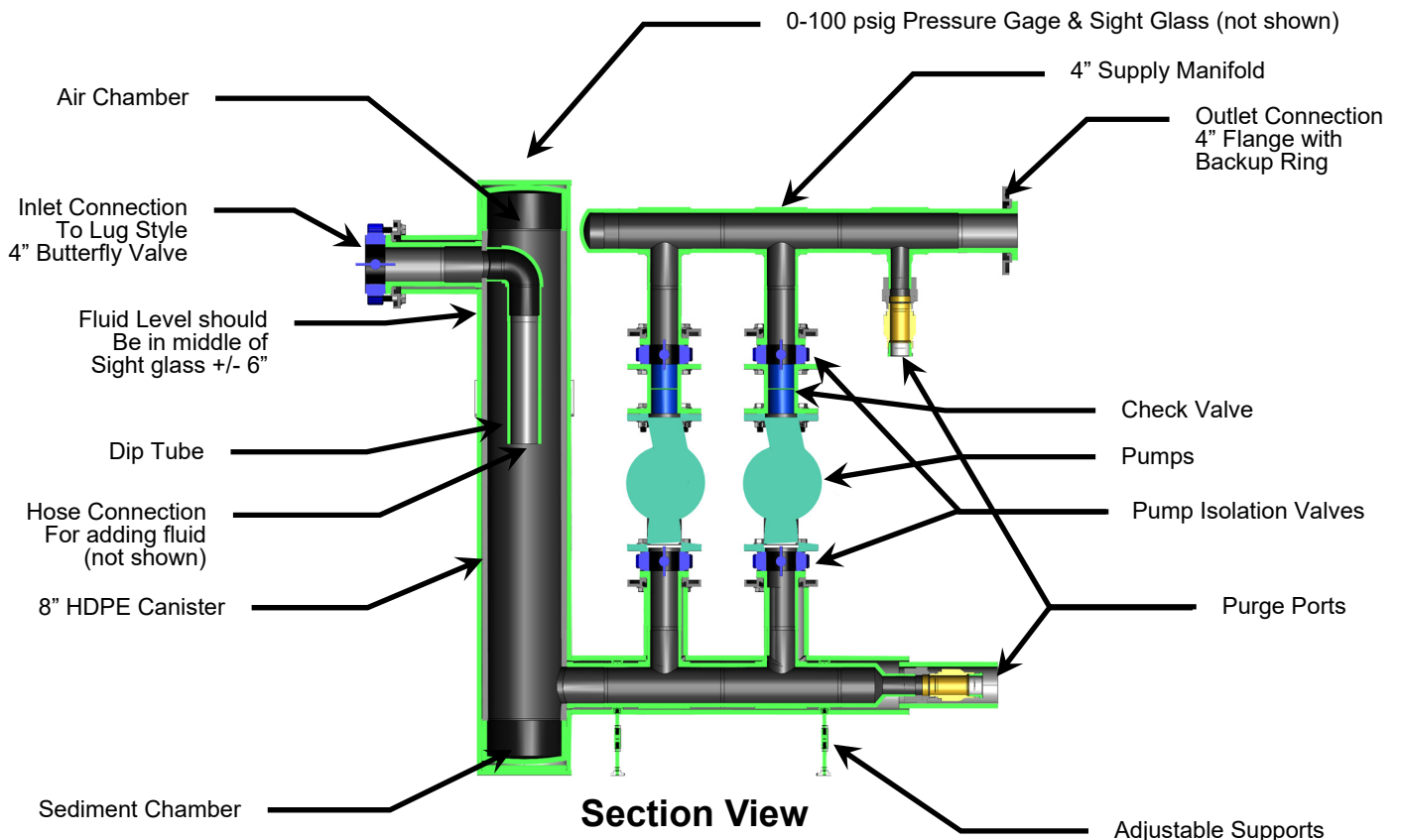
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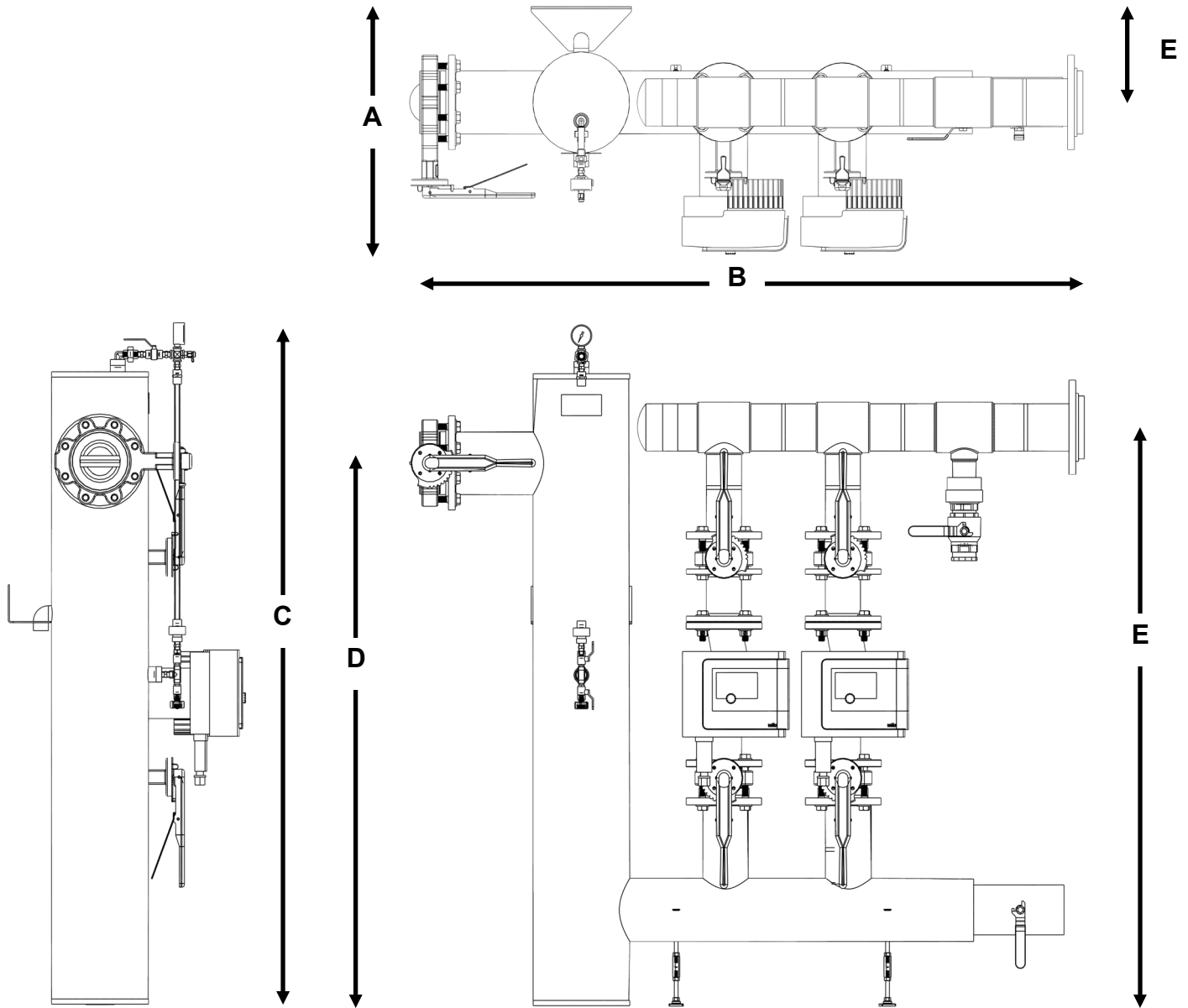


GX8DHD-44

Features:

- Electronically Commutated Motor (ECM) Variable Speed Pump Technology
- Lowest Energy Consumption per Ton of Heat Pump Capacity
- Available in 4 Configurations:
 - Basic - Single Pump
 - Dual - Two Pumps in Parallel (either Full or Partial Redundancy)
 - Primary/Secondary - Two Pumps (Primary for Loop Field & Secondary for Heat Pumps)
 - Dual Primary/Secondary - Four Pumps (Two Primary & Two Secondary)
- Non-Pressurized but capable of being pressurized Flow Center
- Sealed High-Density Polyethylene Insulated Canister
- Air Separation Chamber
- 0-100 psig pressure gauge
- Sight Glass to indicate proper fill level
- FPT Brass or Flanged Inlet & Outlet Connections
- Stabilizing Wall Mounting Bracket
- Purge Ports and hose bib connection for Easy Fill & Maintenance
- GV Zone Monitor (GVZM) Accessory, a cost-effective way to further reduce energy consumption by disabling pump when no heat pumps are running
- Engineering Support for system design
- 3 Year Limited Warranty





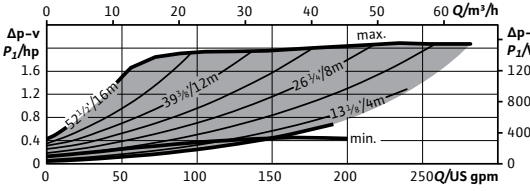
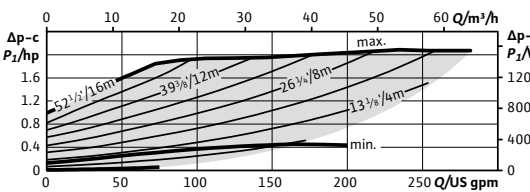
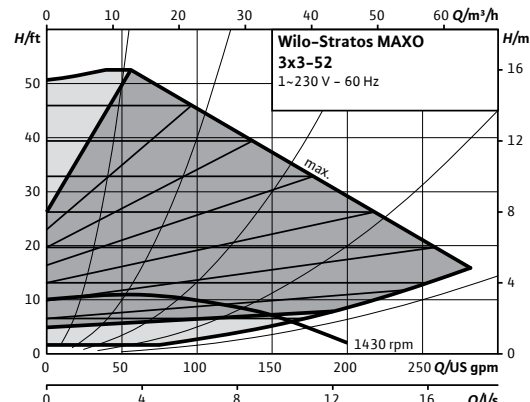
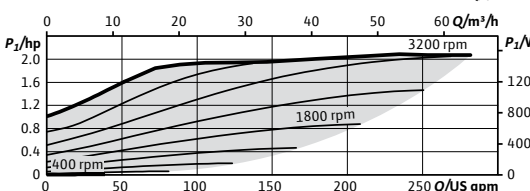
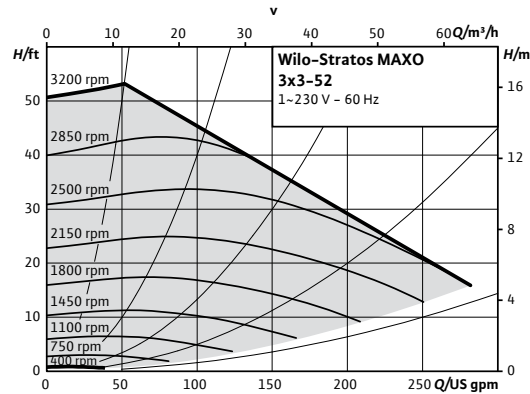
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A	Depth	1' 11 1/2"	596
B	Width	5' 6 1/8"	1680
C	Height	5' 4 3/8"	1636
D	Inlet Height	4' 3 7/8"	1317
E	Outlet Height	4' 7 1/8"	1400
F	Centerline from wall	0' 9 1/8"	232
	Inlet Connection	4" Flange	
	Outlet Connection	4" Flange	
	Purge Port Connection	2" FPT	

Wilo-Stratos MAXO



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

Tag #	Model #	Flow	Head	Control Mode	Cycle	Phase	Voltage
	Maxo 3x3-52				60Hz	1~	230-240V



Product Info

Brand	Wilo
Product Description	Stratos MAXO 3x3-52
Article Number	2164619
Net Weight (approx.)	72 lbs

Hydraulic Data

Max Operating Pressure PN	145 PSI
Min. Suction Head (122°F)	10 PSI
Min. Suction Head (203°F)	21.3 PSI
Min. Suction Head (230°F)	32.7 PSI
Min. Fluid Temp.	14°F
Max Fluid Temp.	230°F
Min. Ambient Temp	14°F
Max. Ambient Temp	104°F

CIF Module Selection

BACnet MS/TP	
Modbus RTU	
CANopen	
LON TP/FT-10	
PLR	

Accessory Selection

Immersion Temp. Sensor PT 1000 AA	
Immersion Sleeve G 1/2", 45mm	
Pipe Surface Contact Sensor PT 1000 B	
Immersion Sleeve G 1/2", 100mm	

Materials

Pump Housing	EN-GJL-250
Impeller	PPS-GF40
Shaft	X30Cr13
Bearing	Carbon, antimony-impregnated

Motor Data

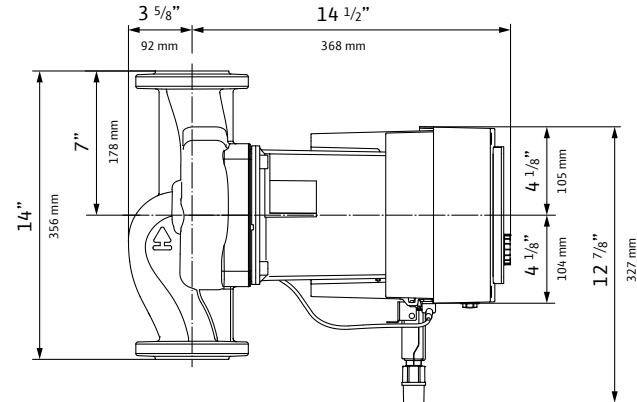
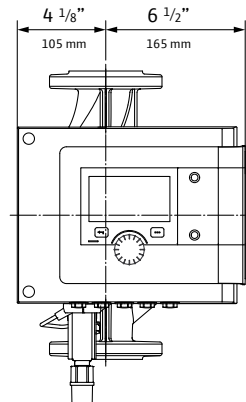
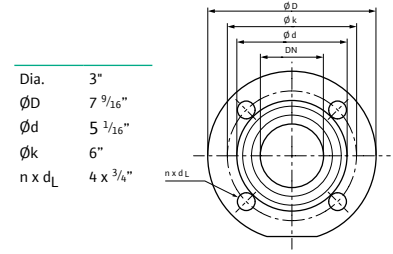
Mains Connection	1-230-240 V ±10%, 50/60Hz
Motor Type	EMC
Rated Power P ₂	2.038 hp
Min. Speed n _{min}	400 RPM
Max. Speed n _{max}	3200 RPM
Power Consumption P _{1,max}	2.206 hp
Power Consumption P _{1,min}	0.020 hp
Max Current (1-230V) I _{max}	7.14 A
Min Current (1-230V) I _{min}	0.3 A
Insulation Class	F
Protection Class	Enclosure 2

Electrical Inputs

Analog Inputs (2x)	0-10V / 0-20mA / 4-20mA / PT 1000 Passive/Active +24V DC
Digital Inputs (2x)	Ext Off / Ext Min / Ext Max / Ext. MANUAL (BMS off) / External Key Lock / Switch heating, cooling
Wilo NET	Multi-Pump Communication
SSM	Fault Signal
SBM	Run Signal

Installation Dimensions

Pipe Connection (discharge)	3"
Pipe Connection (suction)	3"
Flange to Flange	14"

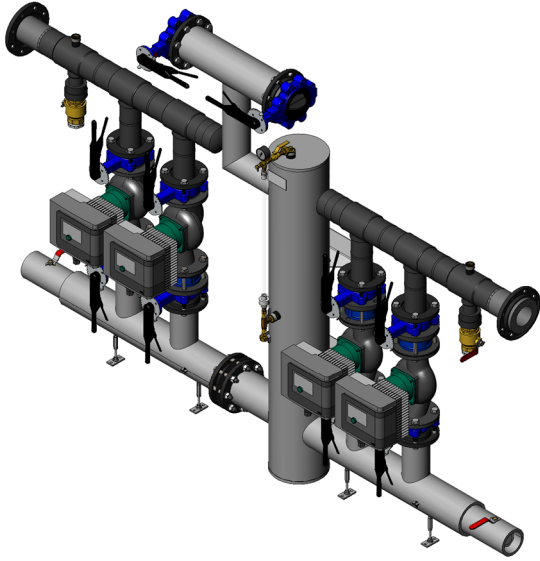


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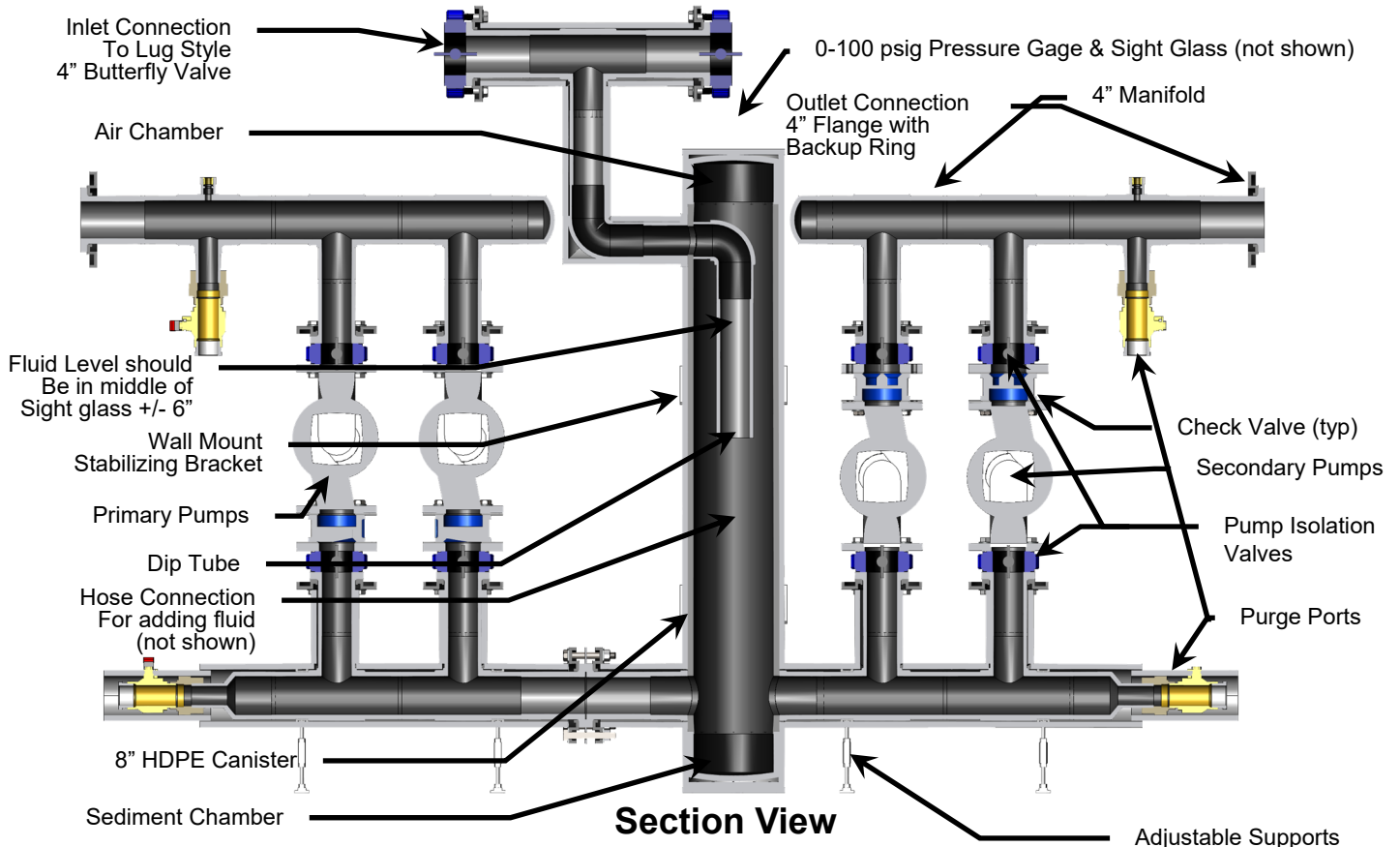
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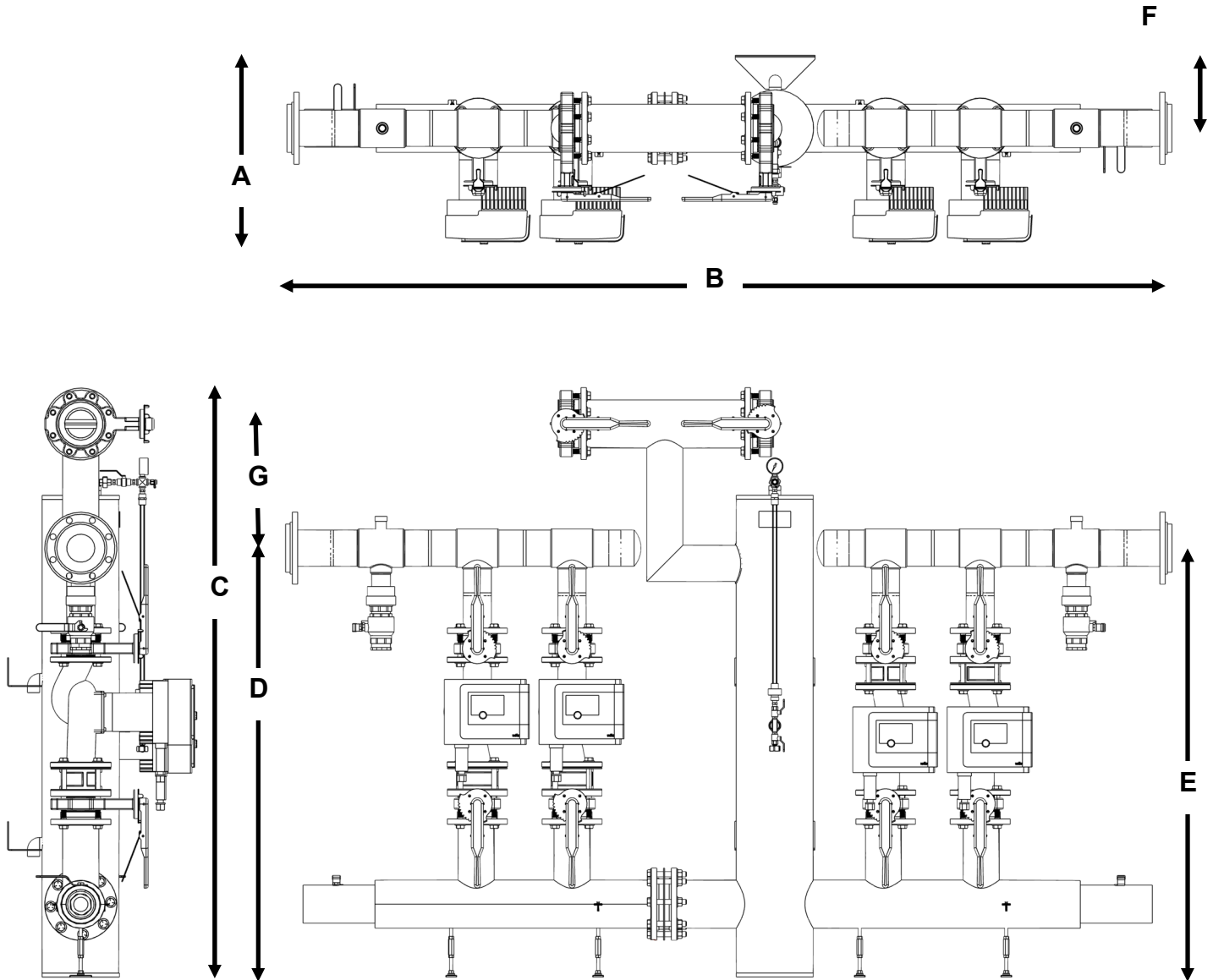


GX8DHS-44

Features:

- Electronically Commutated Motor (ECM) Variable Speed Pump Technology
- Lowest Energy Consumption per Ton of Heat Pump Capacity
- Available in 4 Configurations:
 - Basic - Single Pump
 - Dual - Two Pumps in Parallel (either Full or Partial Redundancy)
 - Primary/Secondary - Two Pumps (Primary for Loop Field & Secondary for Heat Pumps)
 - Dual Primary/Secondary - Four Pumps (Two Primary & Two Secondary)
- Non-Pressurized but capable of being pressurized Flow Center
- Sealed High-Density Polyethylene Insulated Canister
- Air Separation Chamber
- 0-100 psig pressure gauge
- Sight Glass to indicate proper fill level
- FPT Brass or Flanged Inlet & Outlet Connections
- Stabilizing Wall Mounting Bracket
- Purge Ports and hose bib connection for Easy Fill & Maintenance
- GV Zone Monitor (GVZM) Accessory, a cost-effective way to further reduce energy consumption by disabling pump when no heat pumps are running
- Engineering Support for system design
- 3 Year Limited Warranty





		ft - in	mm
A	Depth	1' 11-1/2"	596
B	Width	9' 2-7/8"	2817
C	Height	5' 10"	1779
D	Inlet Height	4' 3 5/8"	1363
E	Outlet Height	4' 3 5/8"	1363
F	Centerline from wall	0' 9 1/8"	232
G	Height Above Inlet/Outlet	1' 3-1/2"	395
	Inlet Connection	4" Flange	
	Outlet Connection	4" Flange	
	Purge Port Connection	2" FPT	

Variations

	Primary Pumps (Loop Field)		Secondary Pumps (Heat Pumps)	
Suffix	QTY	Model	QTY	Model
-SP1	2	MAXO 3x3-52	2	MAXO 3x3-52
-SP2	2	MAXO 3x3-20	2	MAXO 3x3-52

Primary Pump Control Option



The Geo-Flo Universal Pump Controller (UPC-GEO), is a 24VAC powered controller that operates a one- or two-pump variable speed flow center system or variable speed pump via a PWM or 0-10V signal to provide accurate pump control and feedback resulting in the lowest possible power consumption for the pump(s) and system. Instantaneous pump power in Watts is displayed on the back-lit LCD along with other system parameters depending on which sensors are installed. [NOTE: The instantaneous power display is calculated from a PWM output signal from the variable speed pump and current measurement and power factor for the constant speed pump and is only valid for the Magna GEO 32-140, UPMXL 25-124, and the UP26-99 pumps. Other pumps can be controlled, but the power display is not valid]. The installation technician decides whether to control the pump speed based on flow rate set points or differential temperature (ΔT) set points. Installing a single Grundfos Vortex Flow Sensor (VFS) with the UPC- GEO allows the system to be controlled using a flow rate set point input into the controller based on the requirements of the heat pump or system. The controller allows separate flow rate inputs for two-speed (stage) heat pumps, which results in substantial energy savings due to lower flow rate requirements in first-stage

heat pump operation. The Grundfos Vortex Flow Sensor provides both flow rate and temperature feedback which is displayed on the controller. Differential temperature (ΔT) control requires the addition of two 10k thermistors and allows separate ΔT inputs for heating and cooling modes. Installing both a VFS sensor and thermistors allows the UPC-GEO to display flow rate, EWT (entering water temperature), LWT (leaving water temperature), ΔT , and heat of extraction/rejection in KBTU/H. Two lockout modes allow the installer to choose whether to lock the system parameters so they cannot be inadvertently changed or to lock the screen so the feedback (temperatures, flow rate, power, etc.) are not displayed. A Meter mode is included which allows the UPC-GEO to display temperature, flow, and kBTu parameters but does not control the pump(s). This Meter mode is useful when simply monitoring the flow rate and/or system temperature of any hydronic system.