

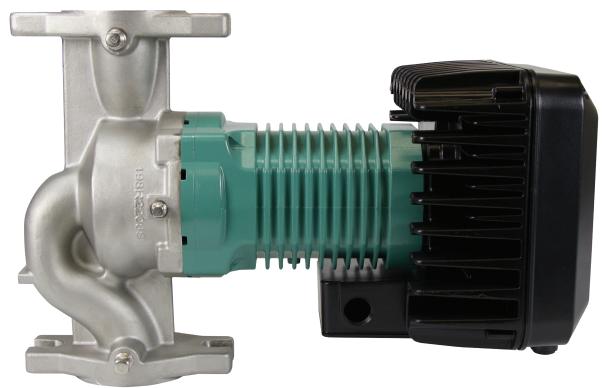
1911ecm™ & 1915ecm™ ECM High-Efficiency Pumps

The 1900e® Series are self-sensing, close coupled, mechanically sealed in-line pumps that exceed industry and efficiency standards with an advanced hydraulic design. They feature a high-efficiency volute, ECM motor and integrated frequency drive. Simple yet versatile control options include constant pressure, constant speed, proportional pressure, 0-10Vdc and parallel pump alternation. These standard features combined with the intuitive user interface allow for quick start-ups achieving optimum system efficiency and maximum comfort. These pumps are available in Ductile Iron for closed loop hydronic heating and cooling systems or Stainless Steel, NSF Commercial Hot Certified for DHW applications.





Features & Applications



Durability & Convenience

- 1911ecm:
 - 50' Shut-off head, 105 USGPM max. flow
- 1915ecm:
 - 65' Shut-off head, 120 USGPM max. flow
- ECM brushless DC, high-efficiency, soft start, high starting torque motor
- Easy to program pump interface
- Self-sensing
- Multiple Operating Modes
 - 4 Constant Pressure
 - 3 Constant Speed
 - 1 Proportional Pressure
- LED Status Light
- Error Diagnostics
 - Locked Rotor
 - Over Current
 - Over & Under Voltage
 - Over Temperature
 - Communications Failure
 - Dry Run

- External Inputs/Outputs
 - 0-10Vdc external speed control
 - Remote enable
 - Overload relay outputParallel pump control
- High quality mechanical sealCarbon/Silicon-Carbide/EPDM for CI Model
 - Carbon/Silicon-Carbon/Viton for SS Model

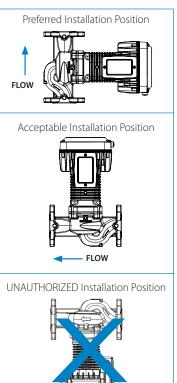






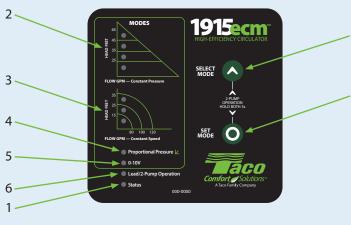
Certified to NSF/ANSI/CAN 61 & 372

Stainless Steel Model



Operation of the Pump

8



- 1. Status LED
- 2. Constant Pressure Mode Setting LED
- 3. Constant Speed Mode Setting LED
- 4. Proportional Pressure Mode LED
- 5. 0-10v Mode LED
- 6. 2 Pump Operation LED
- 7. [^] Select Mode Button
- 8. [O] Set Mode Button

Two-Button User Interface Guide

- Factory default Constant Pressure Mode
- Mode Change short press of Select Mode
 - Current mode LED flashes
 - Short press Select Mode scrolls to other modes
 - Short press Set Mode to accept selected mode

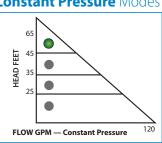
NOTE: Pump returns to previous mode if Set Mode not pressed

- Confirm Mode
 - Short press of Set Mode
 - Selected mode LED on
- Button Lockout
 - Press & hold Set Mode for 10 seconds
 - Activates (or deactivates) Lockout
- 2-Pump Operation
 - Long press (3 sec) of both Select and Set Mode Buttons
 - Selects or de-selects lead/lag operation

1915ecm is shown for illustration purposes. The 1911ecm and 1915ecm interface both operate in the same manner.



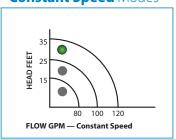




Choose **Proportional Pressure** or **0-10V**

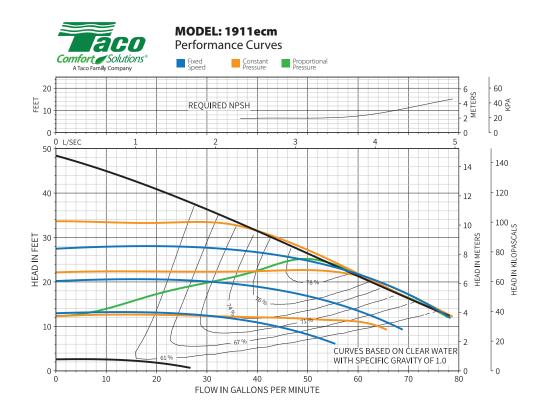


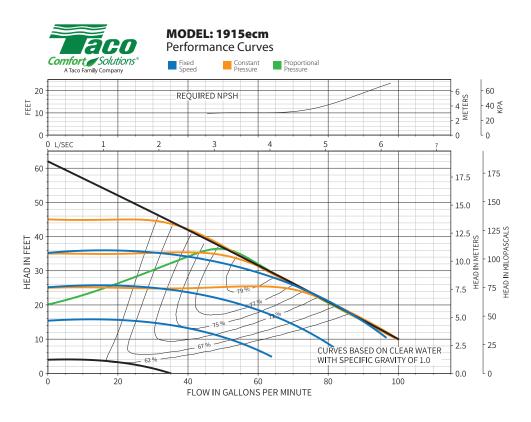
Choose from Three Constant Speed Modes



Choose **Lead/2-Pump**Operation

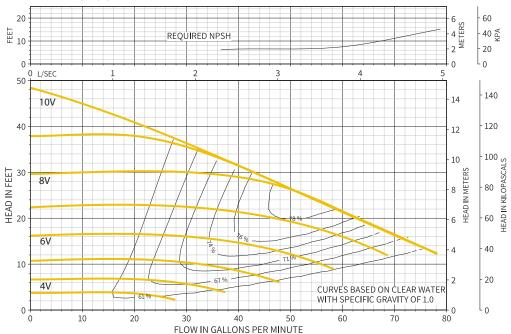
Lead/2-Pump OperationStatus





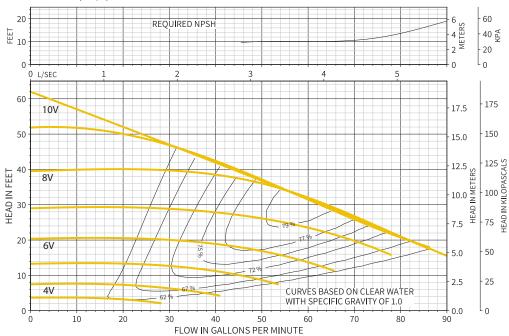


MODEL: 1911ecm 0-10V Performance Curves





MODEL: 1915ecm 0-10V Performance Curves



Submittal Data Information 1900e series — 1911ecm & 1915ecm

Specifications

•	Max. Shut-off Head:	
	1911ecm:50 fe	et
	1915ecm:65 fe	et

· Max. Flow:105 USGPM 1911ecm:... 1915ecm:120 USGPM

Max. Operating Pressure:.....175 PSI (12 bar)

• Water Temperature Range:36 to 230°F (2 to 110°C)

· Ambient Temperature Range:32 to 104°F (0 to 40°C)

· Ambient Humidity:Less than 95% RH (Indoor Use Only)

Standards, Protection and Flange Type

Insulation Class H (180°C)

Enclosure: Type 2 (IP44) Totally Enclosed

Integrated Motor Protection (electronically protected)

Continuous Duty

UL778, 1004-1, 508C

CAN/CSA22.2 #108, #100, #107.1

EMC (89/366EEC): EN 61000

Stainless Steel Version:

NSF/ANSI 61 & 372 Commercial Hot

Flange Type: 2 Bolt, Commercial Oval







Stainless

Steel Model

Intertek 4001998

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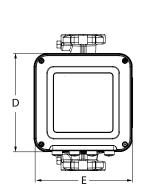
Casing:	HVAC Model: Cataphoresis Coated Ductile Iron
	DHW Model: Stainless Steel
Impeller:	PPS
Shaft:	Stainless Steel
Bearing:	Sealed Ball Bearing
Mechanical Seal:	HVAC Model: Carbon-SiCarbide-EPT
	DHW Model: Carbon-SiCarbide-Viton

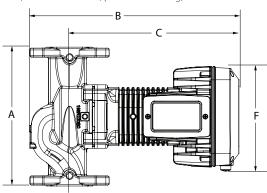
Operating Modes

- Constant Pressure Control (Δp-c)
- Proportional Pressure Control (AUTO)
- Constant Speed
- 0-10Vdc
- 2-Pump Alternation

Applications

Ductile Iron Model: Closed loop, pressurized Heating and Chilled Water HVAC Systems Stainless Steel Model: Potable water systems (DHW recirculation, pressure boosting)





Pump Dimensions & Weights

Model Number	Casina	Flange Size	Α	В	С	D	F	Wt./lbs.
Part Number	Casing	Inches [mm]						[kg]
1911ecm-F VR50105-HD1-FC2A00	Ductile Iron							
1911ecm-SF VR50105-CD1-FS2A00	Stainless Steel	1-1/2 [38]	10.4	15.6	12.7	7.5	7.8	32
1915ecm-F VR65120-HB2-FC2A00	Ductile Iron		[264]	[397]	[322]	[190.5]	[199]	[14.51]
1915ecm-SF VR65120-CB2-FS2A00	Stainless Steel							

Electrical Specifications

	1911ecm	1915ecm		
Pump Ratings (1 phase)	100-240V, 47-63Hz	200-240V, 47-63Hz		
Power Consumption (HP)	0.027-0.60 HP	0.027-0.87 HP		
Power Consumption (W)	20-425W	20-650W		
Rated Current (1 phase)	0.25-4.4A	0.25-3.3A		
Relay	30 VDC Max. Load up to 2A	30 VDC Max. Load up to 2A		
Output:	24VAC Max. Load up to 3A	24VAC Max. Load up to 3A		
Analog	Input Voltage: 0-10V, 10mA, 15 VDC Max	Input Voltage: 0-10V, 10mA		
I/O:	Output Voltage: 0-10V, 10mA	Output Voltage: 0-10V, 10mA		

Minimum static inlet pressure to avoid cavitation at fluid temperatures

Fluid Temperatures	1911ecm PSI / bar	1915ecm PSI / bar
112°F (50°C)	5.6 / 0.4	5.1 / 0.4
176°F (80°C)	11.0 / 0.8	10.4 / 1.08
230°F (110°C)	24.8 / 1.7	23.7 / 1.7



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