1900e series

Water Circulation Pumps & Circulators

1915e™ ECM High-Efficiency Circulators

The ECM 1915e is a self-sensing, close coupled, mechanically sealed in-line pump that exceeds industry and efficiency standards with an advanced hydraulic design. It features a high-efficiency volute, permanent magnet motor with ECM technology 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. The 1915e is available in Ductile Iron for closed loop hydronic heating and cooling systems or Stainless Steel, NSF Commercial Hot Certified for DHW applications.

Ductile Iron Model

4001998

- Easy-to-program pump interface
- High-efficiency ECM motor uses up to 85% less electricity
- Constant speed, constant pressure, or proportional pressure modes
- BMS 0-10V
- 2-pump operation

Certified to NSF/ANSI 61-G & 372

4001998

Stainless Steel Model

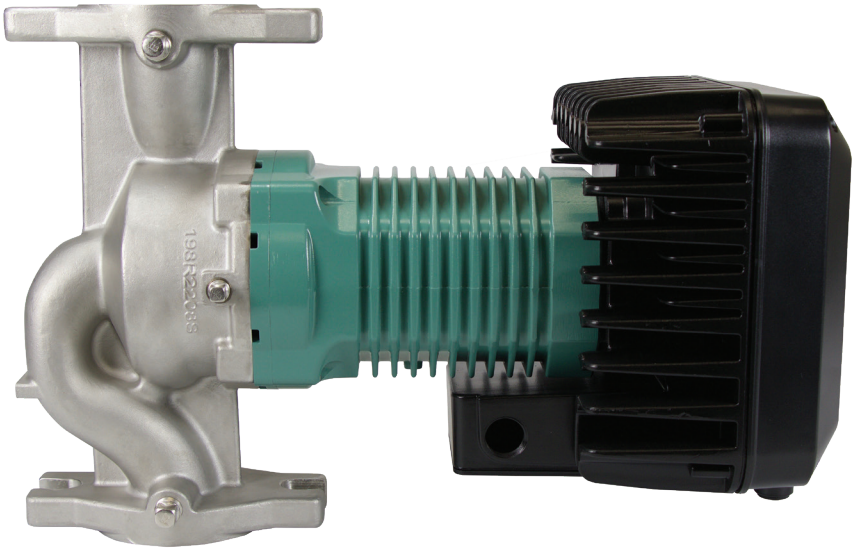
Taco Comfort Solutions®

A Taco Family Company

Supersedes: 01/17/19

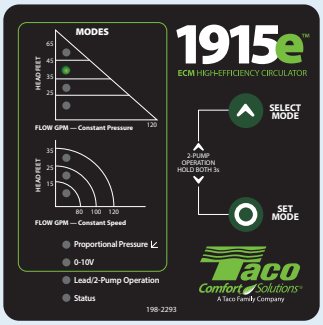
Effective Date: 02/07/19
Printed in USA

Features & Applications



Durability & Convenience

- 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
- External Inputs/Outputs
  - 0-10Vdc external speed control
  - Remote enable
  - Overload relay output
  - Parallel pump control
- High quality mechanical seal
  - Carbon/Silicon-Carbide/EPDM for Ductile Iron Model
  - Carbon/Silicon-Carbon/Viton for SS Model

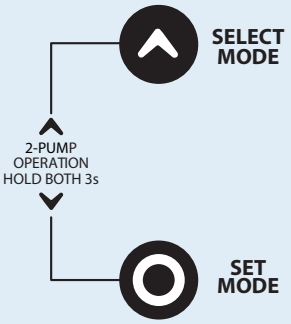


Two-Button User Interface Guide

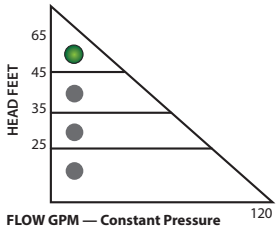
- Factory default Constant Pressure Mode, 45' Set Pressure
- Mode Change – short press of Select Mode
  - Current mode LED flashes
  - Short press Select Mode scrolls to other modes
  - Short press Set Mode to accept selected mode

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

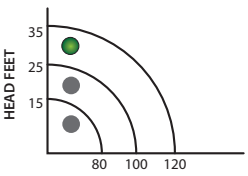
- Confirm Mode
  - Short press of Set Mode
  - Selected mode LED on
- Button Lockout
  - Press and hold Select Mode for 10 seconds
  - Activates (or deactivates) Lockout
- 2-Pump Operation
  - Long press (3 sec) of both Select and Set Mode Buttons
  - Selects or de-selects lead/lag operation



Choose from Four **Constant Pressure** Modes



Choose from Three **Constant Speed** Modes



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

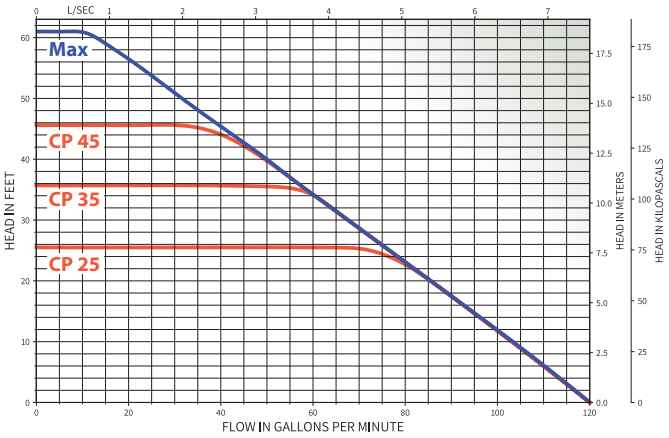
- Proportional Pressure
- 0-10V

Choose **Lead/2-Pump** Operation

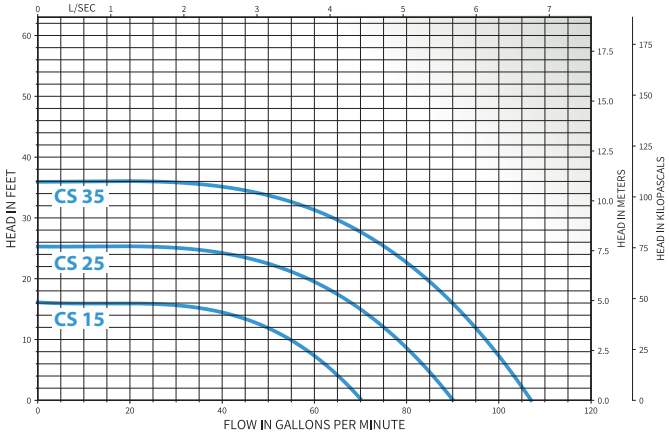
- Lead/2-Pump Operation
- Status

1915e Performance Curves

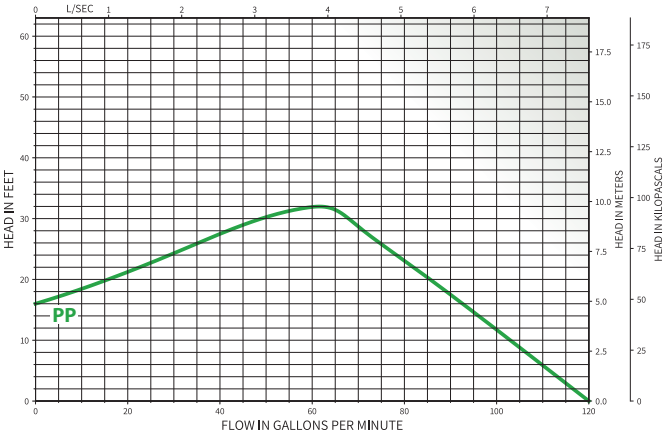
Constant Pressure



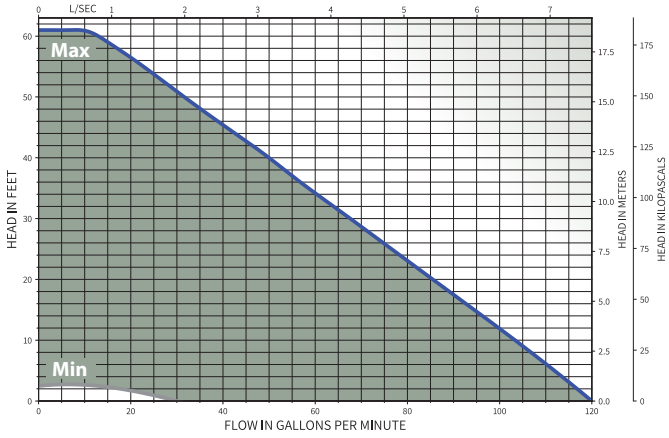
Constant Speed



Proportional Pressure



0-10V



Submittal Data Information
Taco 1900e™ series — 1915e™

Submittal Data # 301-253
Supersedes: 01/17/19

Effective: 02/07/19

Specifications

- Max. Shut-off Head: 65 feet
- Max. Flow: 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-G & 372 Commercial Hot

Flange Type: 2 Bolt, Commercial Oval

4001998

Stainless Steel Model

Materials of Construction:

Casing: ..... **HVAC Model:** Ductile Iron - Cathodic Epoxy Electrocoat
DHW Model: Stainless Steel

Impeller: ..... PPS

Shaft: ..... Stainless Steel

Bearing: ..... Sealed Ball Bearing

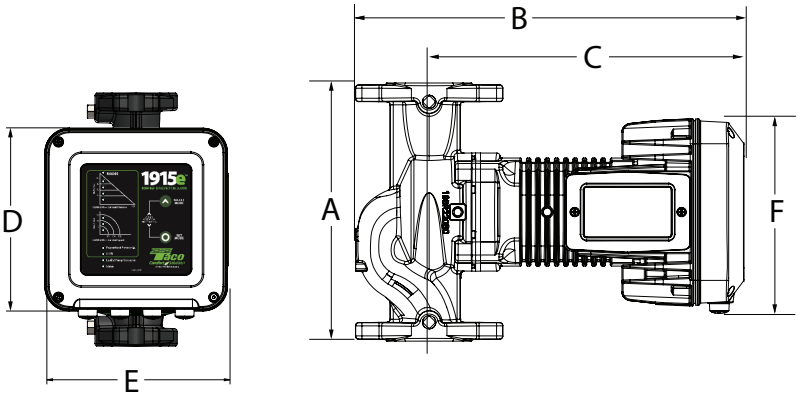
Mechanical Seal: ..... **HVAC Model:** Carbon-SiCarbide-EPT
DHW Model: Carbon-SiCarbide-Viton

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 Part Number	Type	Flange Size	A	B	C	D/E	F	Weight lbs.
		Inches [mm]						
1915e-F VR65120-HB1-FC2A00	Ductile Iron	1-1/2 [38]	10.4 [264]	15.6 [397]	12.7 [322]	7.5 [190.5]	7.8 [199]	30.5
1915e-SF VR65120-CB1-FS2A00	Stainless Steel	1-1/2 [38]	10.4 [264]	15.6 [397]	12.7 [322]	7.5 [190.5]	7.8 [199]	30.5

Electrical Specifications

Pump Ratings	200/240 V, 47 - 63Hz, 1 Phase
Power Consumption (HP)	0.027 - 0.75 HP
Power Consumption (W)	20 - 650 W
Rated Current (1 phase, 230V)	.25A - 3.8A
Relay Output:	30VDC Max. load up to 2A 12VAC Max. load up to 3A
Analog Inputs:	Input Voltage : 0-10VDC, 10mA Output Voltage : 0-10VDC,10mA

Minimum static inlet pressure at pump suction port (PSI / bar) to avoid cavitation at fluid temperatures

Fluid Temperatures	PSI / bar
112˚F (50˚C)	7.3 / 0.5
176˚F (80˚C)	11.6 / 0.8
230˚F (110˚C)	20.3 / 1.4

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Taco (Canada) Ltd., 8450 Lawson Road, Unit #3, Milton, Ontario L9T 0J8 / (905) 564-9422 / Fax (905) 564-9436