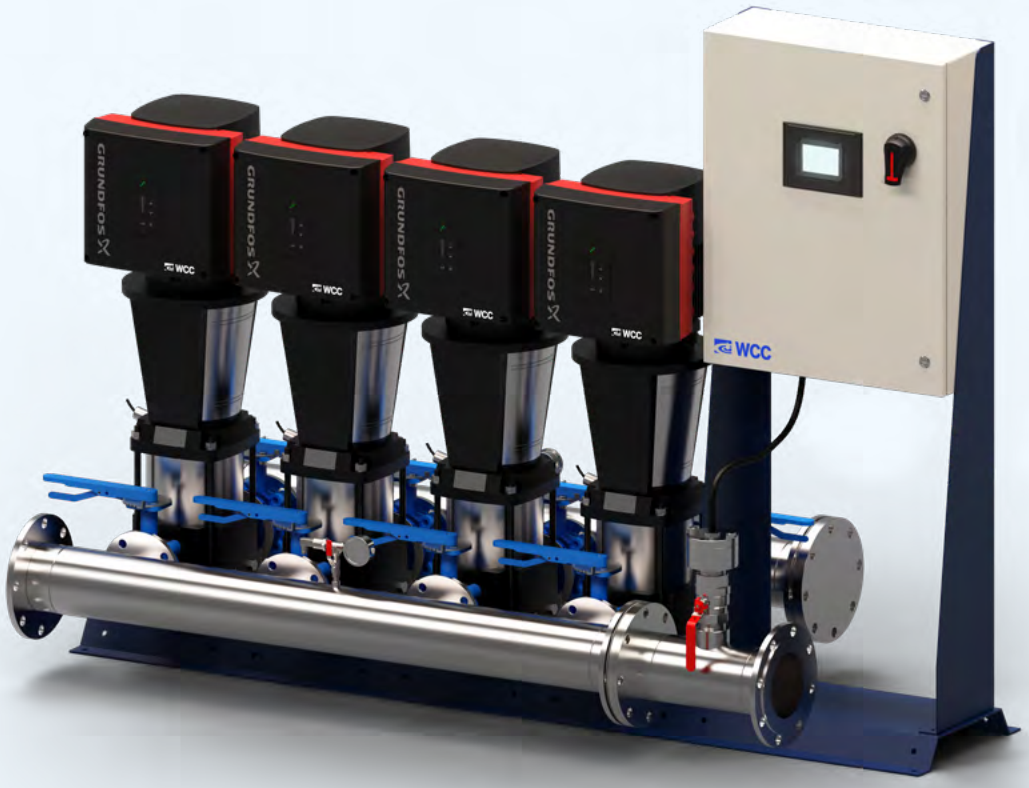
WCC

ISO 9001 Quality Management Systems CERTIFIED

Pressure Booster with LENS™ Quality Monitoring



LENS

Intelligent pressure booster systems with LENS™ water quality monitoring

NRTL IAPMO EGS C US

CONFORMS TO UL STD 778
CERTIFIED TO CSA STD C22.2 NO. 108

NSF/ANSI/CAN 61 IAPMO R&T

MODELS ARE CERTIFIED BY IAPMO R&T TO NSF/ANSI/CAN 61 FOR MATERIAL SAFETY REQUIREMENTS ONLY

Water Control Corporation watercontrolinc.com 1-866-405-1268

From Concept to Commissioning

One booster, endless options

Your one-stop provider for intelligent water pressure boosting

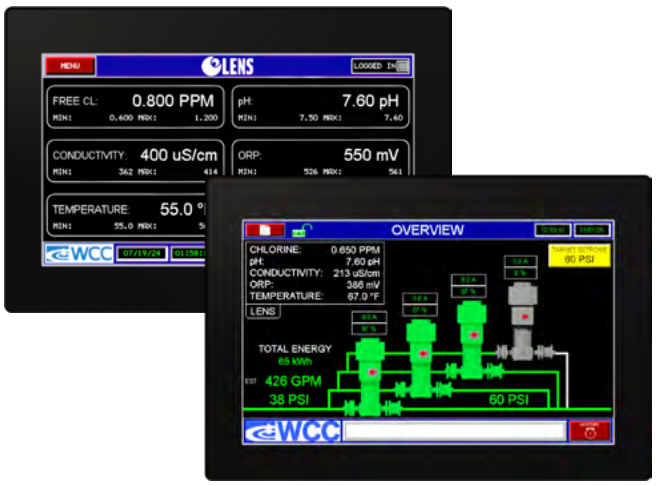
WCC has over 50 years of experience in the fabrication of commercial/ industrial water treatment systems and controls. We use this expertise to build the most robust and versatile pressure booster pump skids available in the marketplace. They don't simply provide ultra-efficient water pressure control. They also monitor inlet water quality, communicate with a host of external sensors, and serve as a central control point for ancillary treatment equipment, emergency backup water systems, and much more.

Standard Features

- Ultra-efficient, multi-stage pumps
- Integral variable speed controls and ECM motors (IE3 Efficiency levels)
- Polished 304SS, thread-free manifolds with 150# flange connections
- 3rd party certification to NSF 61, UL 778 and CSA 22.2 No. 108
- Single-point electrical and BAS connections

Count on WCC for:

- Booster Sizing and Pump Curves
- DIV 22® Specifications
- Revit® Families
- Submittal/O&M Materials
- ISO 9001 Quality Equipment
- Support and Service



Featuring LENS™ PLC control system with integral water quality monitoring

Locate, Evaluate, Notify, Solve

- Continuously monitors temperature, free chlorine, ORP, conductivity (TDS), and pH
- Provides cascade and lead/lag pump control for maximum efficiency and lifespan
- Communicates with various remote sensors
- Controls external systems for disinfection, filtration, tank fill, and more. Perfect for emergency backup water systems
- Connects to a large number of external sensors for complete monitoring of your ASHRAE 188 temperature control plan

Operating Specifications

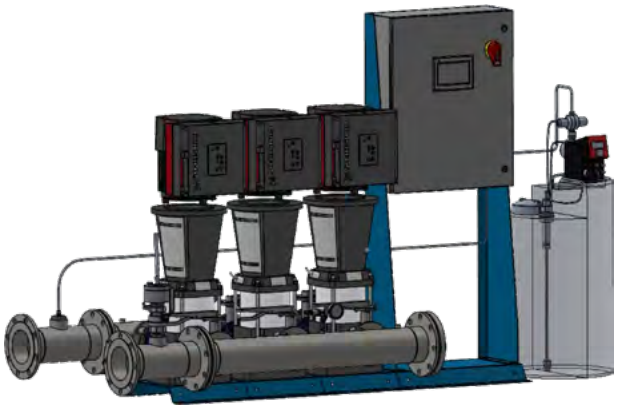
Min/Max Working Temps (liquid)	32˚/158˚F
Min/Max Working Temps (ambient)	32˚/104˚F
Max Working Pressure	200 PSI*

*For standard systems (high-pressure systems available)

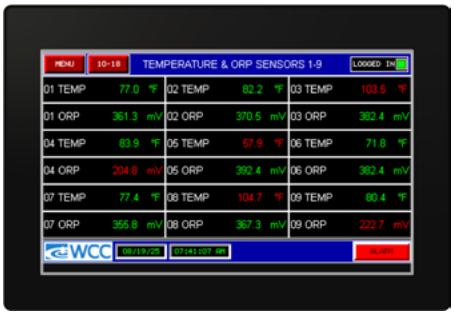
Minimum Hydropneumatic Tank Volume*

Booster System Models	Minimum Volume (Nominal)	WCC Model (Optional)
BP-50 Series	13 US Gal.	BP-HT13 (13 Gal. ASME)
BP-100 Series	40 US Gal.	BP-HT40 (40 Gal. ASME)
BP-150 Series	60 US Gal.	BP-HT60 (60 Gal. ASME)
BP-200 Series	80 US Gal.	BP-HT80 (80 Gal. ASME)

*Hydropneumatic tank to be contractor-installed, downstream of booster system with a verified (dry) air charge equal to 0.7 x system outlet pressure setpoint. Larger tanks may be required in some applications.



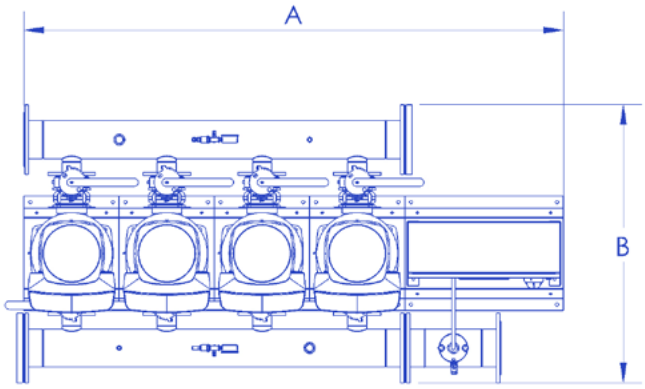
Example of external equipment control:
Booster with integrated chlorine injector



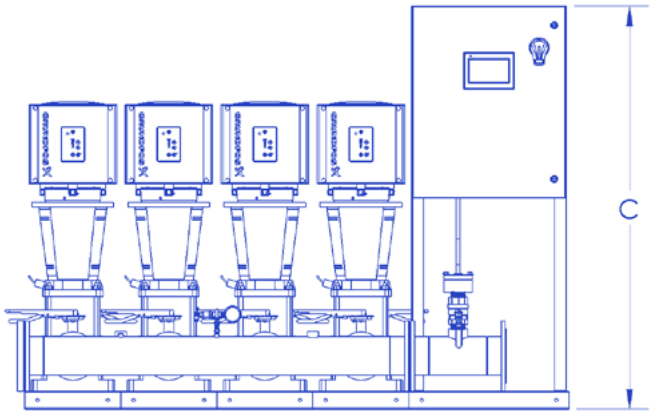
Example of ASHRAE 188 water temperature and quality monitoring via booster panel

Product Dimensions

Note: “E” systems do not include control panel.
Subtract 13” from dimension A (length).



Top View



Front View

See pages 4-5 for dimensional data

Standard Models

440-480V/3 Phase Booster Pump Systems

See instructions below for model selection

Booster Pump Models (Enter A, S, or E)	HP	Qty Pumps	Flow Rate (gpm)	Pressure Boost (psi)	FLA	Dimensions* (A x B x C)	Inlet/Outlet Flanges (in)	Est. Weight (Lbs)
BP□50-35-3X2-1	3	2	100	35	7.6	55 x 38 x 63	3	505
BP□50-35-3X3-1	3	3	150	35	11.4	70 x 38 x 63	3	691
BP□50-35-3X4-1	3	4	200	35	15.2	85 x 38 x 63	3	848
BP□50-35-4X2-1	3	2	100	35	7.6	55 x 40 x 63	4	519
BP□50-35-4X3-1	3	3	150	35	11.4	70 x 40 x 63	4	693
BP□50-35-4X4-1	3	4	200	35	15.2	85 x 40 x 63	4	866
BP□50-70-3X2-1	5	2	100	70	12	55 x 38 x 63	3	567
BP□50-70-3X3-1	5	3	150	70	18	70 x 38 x 63	3	785
BP□50-70-3X4-1	5	4	200	70	24	85 x 38 x 63	3	908
BP□50-70-4X2-1	5	2	100	70	12	55 x 40 x 63	4	581
BP□50-70-4X3-1	5	3	150	70	18	70 x 40 x 63	4	786
BP□50-70-4X4-1	5	4	200	70	24	85 x 40 x 63	4	990
BP□100-35-4X2-1	5	2	200	35	12	55 x 40 x 63	4	581
BP□100-35-4X3-1	5	3	300	35	18	70 x 40 x 63	4	786
BP□100-35-4X4-1	5	4	400	35	24	85 x 42 x 63	4	990
BP□100-35-6X3-1	5	3	300	35	18	70 x 44 x 63	6	823
BP□100-35-6X4-1	5	4	400	35	24	85 x 44 x 63	6	1021
BP□100-70-4X2-1	7.5	2	200	70	17.6	55 x 40 x 63	4	603
BP□100-70-4X3-1	7.5	3	300	70	26.4	70 x 40 x 63	4	819
BP□100-70-4X4-1	7.5	4	400	70	35.2	85 x 40 x 63	4	1034
BP□100-70-6X3-1	7.5	3	300	70	26.4	70 x 44 x 63	6	856
BP□100-70-6X4-1	7.5	4	400	70	35.2	85 x 44 x 63	6	1065
BP□150-35-4X2-1	7.5	2	300	35	17.6	55 x 40 x 63	4	651
BP□150-35-4X3-1	7.5	3	450	35	26.4	70 x 40 x 63	4	891
BP□150-35-6X3-1	7.5	3	450	35	26.4	70 x 44 x 63	6	928
BP□150-35-6X4-1	7.5	4	600	35	35.2	85 x 44 x 63	6	1161
BP□150-70-4X2-1	10	2	300	70	25.9	55 x 40 x 63	4	711
BP□150-70-4X3-1	10	3	450	70	38.85	70 x 40 x 63	4	981
BP□150-70-6X3-1	10	3	450	70	38.85	70 x 44 x 63	6	998
BP□150-70-6X4-1	10	4	600	70	51.8	85 x 44 x 63	6	1281
BP□200-35-6X2-1	7.5	2	400	35	17.6	55 x 44 x 63	6	709
BP□200-35-6X3-1	7.5	3	600	35	26.4	70 x 44 x 63	6	979
BP□200-35-6X4-1	7.5	4	800	35	35.2	85 x 44 x 63	6	1229
BP□200-70-6X2-1	15	2	400	70	34.5	55 x 44 x 63	6	859
BP□200-70-6X3-1	15	3	600	70	51.75	70 x 44 x 63	6	1194
BP□200-70-6X4-1	15	4	800	70	69	85 x 44 x 63	6	1529

For full PLC panel with LENS™ water quality monitoring, enter A into model number.

Example: BP A 200-35-6X4-1

For full PLC panel, enter S into model number.

Example: BP S 200-35-6X4-1

For basic app-controlled system with electrical disconnect only, enter E into model number.

Example: BP E 200-35-6X4-1

*Subtract 13” from dimension A (length) for “E” series systems

Standard Models

200-240V/3 Phase Booster Pump Systems

See instructions below for model selection

Booster Pump Models (Enter A, S, or E)	HP	Qty Pumps	Flow Rate (gpm)	Pressure Boost (psi)	FLA	Dimensions* (A x B x C) (in)	Inlet/Outlet Flanges (in)	Est. Weight (lbs)
BP□50-35-3X2-2	3	2	100	35	13.2	55 x 38 x 63	3	519
BP□50-35-3X3-2	3	3	150	35	19.8	70 x 38 x 63	3	713
BP□50-35-3X4-2	3	4	200	35	26.4	85 x 38 x 63	3	876
BP□50-35-4X2-2	3	2	100	35	13.2	55 x 40 x 63	4	533
BP□50-35-4X3-2	3	3	150	35	19.8	70 x 40 x 63	4	714
BP□50-35-4X4-2	3	4	200	35	26.4	85 x 40 x 63	4	894
BP□50-70-3X2-2	5	2	100	70	21.8	55 x 38 x 63	3	541
BP□50-70-3X3-2	5	3	150	70	32.7	70 x 38 x 63	3	746
BP□50-70-3X4-2	5	4	200	70	43.6	85 x 38 x 63	3	920
BP□50-70-4X2-2	5	2	100	70	21.8	55 x 40 x 63	4	555
BP□50-70-4X3-2	5	3	150	70	32.7	70 x 40 x 63	4	747
BP□50-70-4X4-2	5	4	200	70	43.6	85 x 40 x 63	4	938
BP□100-35-4X2-2	5	2	200	35	21.8	55 x 40 x 63	4	541
BP□100-35-4X3-2	5	3	300	35	32.7	70 x 40 x 63	4	747
BP□100-35-4X4-2	5	4	400	35	43.6	85 x 40 x 63	4	938
BP□100-35-6X3-2	5	3	300	35	32.7	70 x 44 x 63	6	784
BP□100-35-6X4-2	5	4	400	35	43.6	85 x 44 x 63	6	969
BP□100-70-4X2-2	7.5	2	200	70	33.2	55 x 40 x 63	4	629
BP□100-70-4X3-2	7.5	3	300	70	49.8	70 x 40 x 63	4	858
BP□100-70-4X4-2	7.5	4	400	70	66.4	85 x 40 x 63	4	1086
BP□100-70-6X3-2	7.5	3	300	70	49.8	70 x 44 x 63	6	895
BP□100-70-6X4-2	7.5	4	400	70	66.4	85 x 44 x 63	6	1117
BP□150-35-4X2-2	7.5	2	300	35	33.2	55 x 40 x 63	4	679
BP□150-35-4X3-2	7.5	3	450	35	49.8	70 x 40 x 63	4	891
BP□150-35-6X3-2	7.5	3	450	35	49.8	70 x 44 x 63	6	970
BP□150-35-6X4-2	7.5	4	600	35	66.4	85 x 44 x 63	6	1217
BP□200-35-6X2-2	7.5	2	400	35	33.2	55 x 44 x 63	6	737
BP□200-35-6X3-2	7.5	3	600	35	49.8	70 x 44 x 63	6	1021
BP□200-35-6X4-2	7.5	4	800	35	66.4	85 x 44 x 63	6	1285

For full PLC panel with LENS™ water quality monitoring, enter A into model number.

Example: BP A 200-35-6X4-1

For full PLC panel, enter S into model number.

Example: BP S 200-35-6X4-1

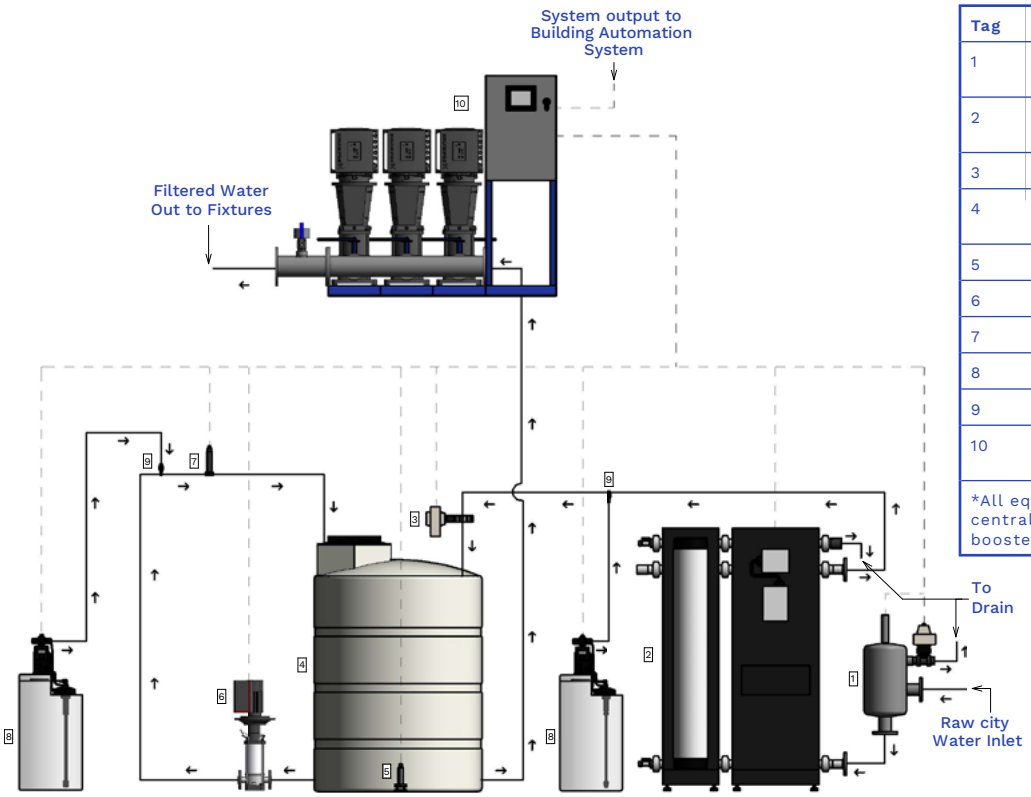
For basic app-controlled system with electrical disconnect only, enter E into model number.

Example: BP E 200-35-6X4-1

*Subtract 13” from dimension A (length) for “E” series systems

One Booster, Total Water System Control

Example: Emergency Backup Water Supply System



Tag	Description
1	Automatic Backwashing Sediment Filter
2	High Capacity Ultrafiltration System
3	Tank Fill Valve
4	Emergency Water Storage Tank
5	Tank Level Sensor
6	Recirculation Pump
7	LENS Chlorine Sensor
8	Chlorine Injection System
9	Chlorine Injection Port
10	WCC Booster System w/ Central Controller

*All equipment shown shall be centrally controlled by WCC booster PLC control panel

Experience the WCC difference

- Easy-to-use system design questionnaires
- 3D (Revit®) renditions for every system
- Custom AIA Division 22® specifications
- Detailed project submittals
- Project-specific installation diagrams
- Intuitive, adaptable controls
- Complete, customized 'Operation and Maintenance' manuals

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