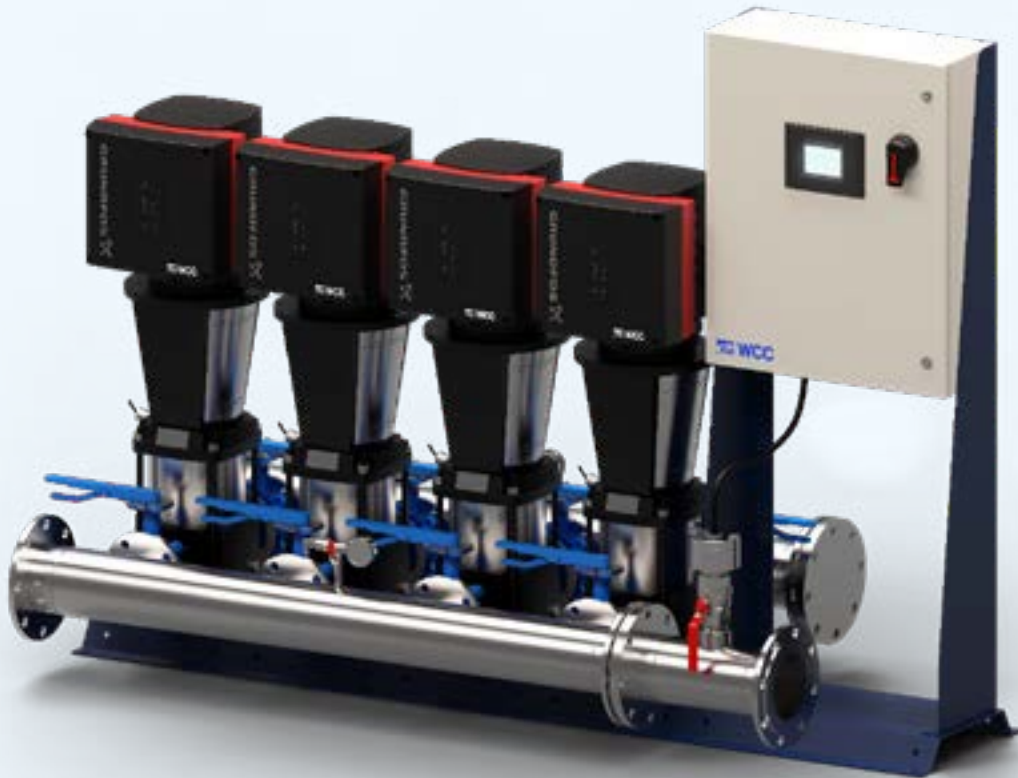




Intelligent pressure booster systems with LENS™ water quality monitoring



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



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

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

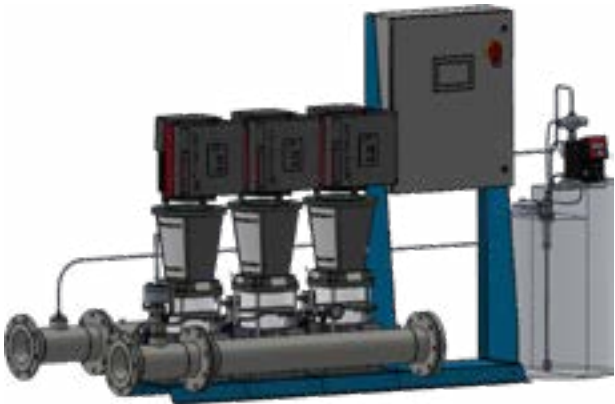
Min/Max Working Temps (liquid)	32°/158°F
Min/Max Working Temps (ambient)	32°/104°F
Max Working Pressure	200 PSI*

*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.



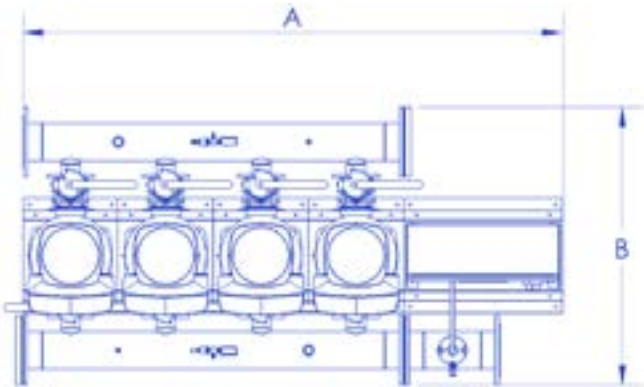
Example of external equipment control: Booster with integrated chlorine injector



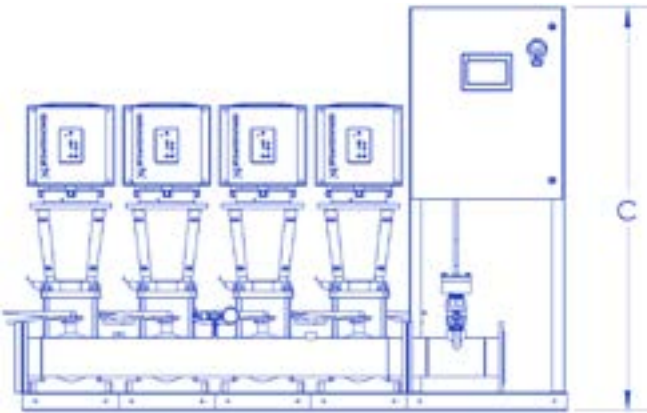
Example of ASHRAE 188 water temperature and quality monitoring via booster panel

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 A 50-35-3X2-1	3	2	100	35	7.6	55 x 38 x 63	3	621
BP A 50-35-3X3-1	3	3	150	35	11.4	70 x 38 x 63	3	813
BP A 50-35-3X4-1	3	4	200	35	15.2	85 x 38 x 63	3	1010
BP A 50-35-4X2-1	3	2	100	35	7.6	55 x 40 x 63	4	645
BP A 50-35-4X3-1	3	3	150	35	11.4	70 x 40 x 63	4	844
BP A 50-35-4X4-1	3	4	200	35	15.2	85 x 40 x 63	4	1044
BP A 50-70-3X2-1	5	2	100	70	12	55 x 38 x 63	3	683
BP A 50-70-3X3-1	5	3	150	70	18	70 x 38 x 63	3	913
BP A 50-70-3X4-1	5	4	200	70	24	85 x 38 x 63	3	1146
BP A 50-70-4X2-1	5	2	100	70	12	55 x 40 x 63	4	712
BP A 50-70-4X3-1	5	3	150	70	18	70 x 40 x 63	4	944
BP A 50-70-4X4-1	5	4	200	70	24	85 x 40 x 63	4	1179
BP A 100-35-4X2-1	5	2	200	35	12	55 x 40 x 63	4	716
BP A 100-35-4X3-1	5	3	300	35	18	70 x 40 x 63	4	922
BP A 100-35-4X4-1	5	4	400	35	24	85 x 42 x 63	4	1149
BP A 100-35-6X3-1	5	3	300	35	18	70 x 44 x 63	6	976
BP A 100-35-6X4-1	5	4	400	35	24	85 x 44 x 63	6	1209
BP A 100-70-4X2-1	7.5	2	200	70	17.6	55 x 40 x 63	4	736
BP A 100-70-4X3-1	7.5	3	300	70	26.4	70 x 40 x 63	4	982
BP A 100-70-4X4-1	7.5	4	400	70	35.2	85 x 40 x 63	4	1226
BP A 100-70-6X3-1	7.5	3	300	70	26.4	70 x 44 x 63	6	1036
BP A 100-70-6X4-1	7.5	4	400	70	35.2	85 x 44 x 63	6	1287
BP A 150-35-4X2-1	7.5	2	300	35	17.6	55 x 40 x 63	4	787
BP A 150-35-4X3-1	7.5	3	450	35	26.4	70 x 40 x 63	4	1055
BP A 150-35-6X3-1	7.5	3	450	35	26.4	70 x 44 x 63	6	1107
BP A 150-35-6X4-1	7.5	4	600	35	35.2	85 x 44 x 63	6	1381
BP A 150-70-4X2-1	10	2	300	70	25.9	55 x 40 x 63	4	850
BP A 150-70-4X3-1	10	3	450	70	38.85	70 x 40 x 63	4	1152
BP A 150-70-6X3-1	10	3	450	70	38.85	70 x 44 x 63	6	1204
BP A 150-70-6X4-1	10	4	600	70	51.8	85 x 44 x 63	6	1510
BP A 200-35-6X2-1	7.5	2	400	35	17.6	55 x 44 x 63	6	878
BP A 200-35-6X3-1	7.5	3	600	35	26.4	70 x 44 x 63	6	1170
BP A 200-35-6X4-1	7.5	4	800	35	35.2	85 x 44 x 63	6	1469
BP A 200-70-6X2-1	15	2	400	70	34.5	55 x 44 x 63	6	1037
BP A 200-70-6X3-1	15	3	600	70	51.75	70 x 44 x 63	6	1412
BP A 200-70-6X4-1	15	4	800	70	69	85 x 44 x 63	6	1792

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

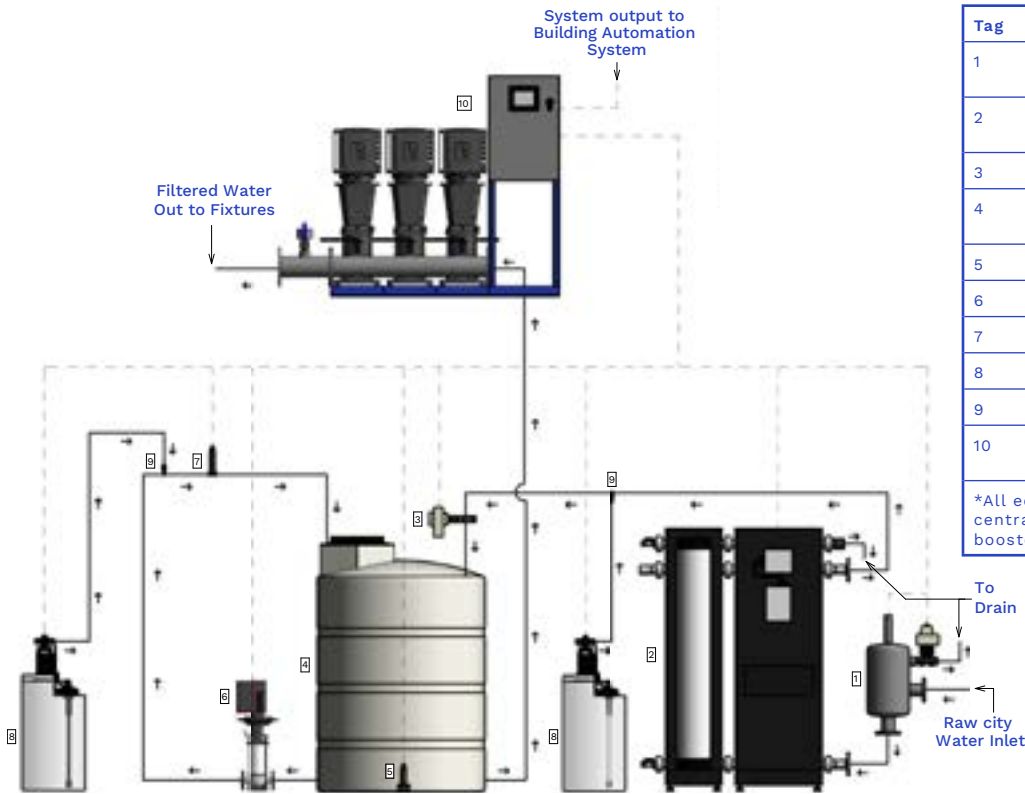
Booster Pump Models (Enter A , S , or E)	HP	Qty Pumps	Flow Rate (gpm)	Pressure Boost (psi)	FLA	Dimensions* (A x B x C) (in)	Inlet/Outlet Flanges (in)	Est. Weight (lbs)
BP A 50-35-3X2-2	3	2	100	35	13.2	55 x 38 x 63	3	649
BP A 50-35-3X3-2	3	3	150	35	19.8	70 x 38 x 63	3	836
BP A 50-35-3X4-2	3	4	200	35	26.4	85 x 38 x 63	3	1042
BP A 50-35-4X2-2	3	2	100	35	13.2	55 x 40 x 63	4	660
BP A 50-35-4X3-2	3	3	150	35	19.8	70 x 40 x 63	4	867
BP A 50-35-4X4-2	3	4	200	35	26.4	85 x 40 x 63	4	1076
BP A 50-70-3X2-2	5	2	100	70	21.8	55 x 38 x 63	3	655
BP A 50-70-3X3-2	5	3	150	70	32.7	70 x 38 x 63	3	873
BP A 50-70-3X4-2	5	4	200	70	43.6	85 x 38 x 63	3	1090
BP A 50-70-4X2-2	5	2	100	70	21.8	55 x 40 x 63	4	684
BP A 50-70-4X3-2	5	3	150	70	32.7	70 x 40 x 63	4	905
BP A 50-70-4X4-2	5	4	200	70	43.6	85 x 40 x 63	4	1123
BP A 100-35-4X2-2	5	2	200	35	21.8	55 x 40 x 63	4	686
BP A 100-35-4X3-2	5	3	300	35	32.7	70 x 40 x 63	4	882
BP A 100-35-4X4-2	5	4	400	35	43.6	85 x 40 x 63	4	1093
BP A 100-35-6X3-2	5	3	300	35	32.7	70 x 44 x 63	6	936
BP A 100-35-6X4-2	5	4	400	35	43.6	85 x 44 x 63	6	1153
BP A 100-70-4X2-2	7.5	2	200	70	33.2	55 x 40 x 63	4	766
BP A 100-70-4X3-2	7.5	3	300	70	49.8	70 x 40 x 63	4	1024
BP A 100-70-4X4-2	7.5	4	400	70	66.4	85 x 40 x 63	4	1282
BP A 100-70-6X3-2	7.5	3	300	70	49.8	70 x 44 x 63	6	1078
BP A 100-70-6X4-2	7.5	4	400	70	66.4	85 x 44 x 63	6	1343
BP A 150-35-4X2-2	7.5	2	300	35	33.2	55 x 40 x 63	4	832
BP A 150-35-4X3-2	7.5	3	450	35	49.8	70 x 40 x 63	4	1100
BP A 150-35-6X3-2	7.5	3	450	35	49.8	70 x 44 x 63	6	1152
BP A 150-35-6X4-2	7.5	4	600	35	66.4	85 x 44 x 63	6	1441
BP A 200-35-6X2-2	7.5	2	400	35	33.2	55 x 44 x 63	6	923
BP A 200-35-6X3-2	7.5	3	600	35	49.8	70 x 44 x 63	6	1215
BP A 200-35-6X4-2	7.5	4	800	35	66.4	85 x 44 x 63	6	1530

For full PLC panel with LENS™ water quality monitoring, enter **A** into model number.Example: BP**A**200-35-6X4-1For full PLC panel, enter **S** into model number.Example: BP**S**200-35-6X4-1For 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
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- ◆ Project-specific installation diagrams
- ◆ Intuitive, adaptable controls
- ◆ Complete, customized 'Operation and Maintenance' manuals



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