

envirosep PBS

PACKAGED BOILER SYSTEMS

Envirosep has led the way in packaged systems by offering designs and manufacturing integrated solutions for fluid handling, heat transfer and energy recovery for over 20 years. We strive to provide the most cost effective and energy efficient pre-engineered packaged boiler systems to our customers.

Our pre-engineered packaged system, *envirosep PBS*, includes boilers, pumps, valves, fittings, variable frequency drives, and can include hydronic accessories such as expansion tanks, water storage tanks and air separators. Our systems are designed for either new construction or retrofits for HVAC, district heating, and industrial process applications.



FEATURES & BENEFITS

- Our *envirosep PBS* is factory manufactured, tested and UL-listed ensuring quality and NEC code compliance
- Sole source manufacturing responsibility, just one manufacturer to coordinate
- Our *envirosep PBS* is cost effective - offering fixed costs and on-time delivery coordinated with site (factory controlled environment means no weather delays)
- Our packaged boiler system may be configured for 20° or 30° ΔT , with a variety of boiler capacities for any industrial or commercial application
- Each unit may be custom engineered to meet specific system requirements
- Speeds up installation and start-up which provides significant savings to contractors, engineers and facility owners

SYSTEMS DESIGN INCLUDES:

- Condensing or non-condensing boilers
- In-line, circulator or end suction pumps
- Single point power
- Common supply header
- Common return header
- Pre-piped and pressure tested gas piping
- 1/4" diamond plate decking
- H.S.S. base frame
- Lifting lugs

OPTIONAL ACCESSORIES INCLUDES:

- Stainless steel headers
- Copper headers
- Variable frequency drives (VFD)
- Control panel & instrumentation
- Air separator- ASME tangential or In-line
- Expansion tank - ASME, with bladder
- Chemical shot feeder
- Water storage tank



TECHNICAL DATA

SYSTEM CONDITIONS	RANGE
system capacity (MBH)	300 to 16,000
system flow rate (gpm)	60 to 1,600
number of boilers	1 to 4
system ΔT (°F)	20 or 30
motor power (hp)	5 to 40
liquid temperature (°F)	55 to 240
operating pressure (psi)	10 to 150

ACCESSORY COMPONENT OPTIONS	RANGE
air separator (tangential/in-line) (in.)	2 to 8
expansion tank (gal)	6 to 211
chemical shot feeder (gal)	2 to 12
VFD (hp)	5 to 40
storage tank (gal)	100 to 400
control panel interface	BACnet MSTP

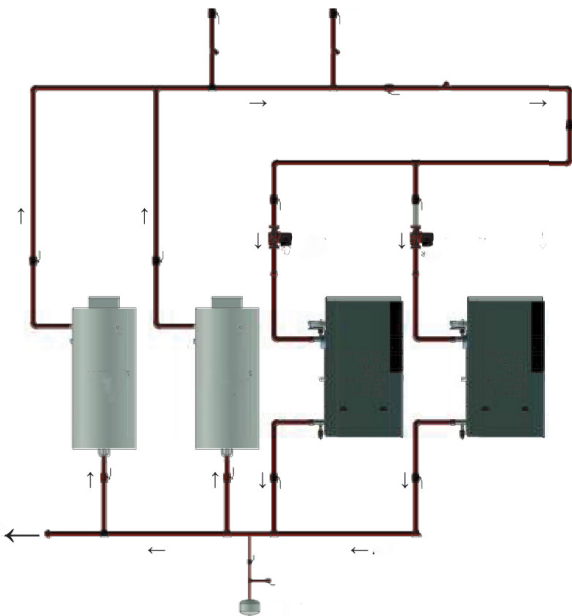


FIGURE 2. Typical schematic of a two (2) boiler system, with in-line circulator pumps and optional water storage tanks.



FIGURE 1. Four (4) boiler envirosep PBS modular skid

SYSTEM CAPACITY

1 & 2 BOILERS

Header Size	MAXIMUM MBH 20 ΔT	MAXIMUM MBH 30 ΔT	MAXIMUM PUMP HP @ 60' TDH
2"	600	1000	5
3"	1800	3000	7.5
4"	4000	6000	10
6"	8000	8000	15

3 BOILERS

Header Size	MAXIMUM MBH 20 ΔT	MAXIMUM MBH 30 ΔT	MAXIMUM PUMP HP @ 60' TDH
2"	N/A	1200	7.5
3"	1500	2700	7.5
4"	3150	6000	10
6"	7500	12,000	20
8"	12,000	N/A	30

4 BOILERS

Header Size	MAXIMUM MBH 20 ΔT	MAXIMUM MBH 30 ΔT	MAXIMUM PUMP HP @ 100' TDH
2"	N/A	1200	10
3"	2000	3000	15
4"	3600	6000	20
6"	8000	8,000	30
8"	1,600	16000	40