Series e-80SC
SPLIT COUPLED VERTICAL IN-LINE CENTRIFUGAL PUMP
PERFORMANCE CURVES - 60 HZ
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Centrifugal Pump Energy Efficiency Information

The U.S. Department of Energy introduced Pump Energy Conservation Standards in January of 2016. These standards apply to five styles of clean water pumps in 1800 and 3600 nominal motor speeds. Pump manufacturers must sell only compliant products after January 27, 2020. Compliant products have Pump Energy Indexes (PEI) equal to or below 1.0 either in Constant Load (CL) or Variable Load (VL) applications.

In support of the U.S. DOE Pump Energy Conservation Standards, the North American Pump Manufacturers Association, The Hydraulic Institute, introduced its own Energy Rating (ER) Metric for clean water pumps which also requires certification of pump manufacturer’s test laboratories. Compliant products have Energy Ratings (ER) above 1.0 either in Constant Load (CL) or Variable Load (VL) applications.

All Bell & Gossett Centrifugal Pump products already comply with U.S. Department of Energy Pump Energy Conservation Standards and Hydraulic Institute Standards for Energy Ratings. Specific PEI and ER data is shown on each pump performance curve where applicable and on the pump nameplate.

For more information, visit http://bellgossett.com/e-series-pumps/# or http://er.pumps.org/ratings/home
Series e-80SC

1800 RPM PUMP CURVES

Energy Efficiency Ratings:
Pump & Motor: PEICL: 0.83 ERCL: 17
Pump, Motor & Drive: PEIVL: 0.47 ERVL: 53

Date: 7/31/2015

Bell & Gossett

1.5x1.5x7C
1750 RPM

Energy Efficiency Ratings:
Pump & Motor: PEICL: 0.96 ERCL: 4
Pump, Motor & Drive: PEIVL: 0.51 ERVL: 49

Date: 7/31/2015

Bell & Gossett

2x2x7B
1750 RPM

Energy Efficiency Ratings:
Pump & Motor: PEICL: 0.96 ERCL: 4
Pump, Motor & Drive: PEIVL: 0.51 ERVL: 49

Date: 7/31/2015
Series e-80SC

Energy Efficiency Ratings:
Pump & Motor: PEICL: 0.89   ERCL: 11
Pump, Motor & Drive: PEIVL: 0.48   ERVL: 52

Bell & Gossett
2.5x2.5x7B
1750 RPM

Series e-80SC

Energy Efficiency Ratings:
Pump & Motor: PEICL: 0.94   ERCL: 6
Pump, Motor & Drive: PEIVL: 0.51   ERVL: 49

Bell & Gossett
3x3x7C
1750 RPM
Series e-80SC

**Bell & Gossett**

**4x4x7B**

1750 RPM

Energy Efficiency Ratings:
- Pump & Motor: $PE_{ICL}: 0.97$  $ER_{CL}: 3$
- Pump, Motor & Drive: $PE_{IVL}: 0.48$  $ER_{VL}: 52$

*6” and below requires oversized diameter and angle trim. See manual.
Series e-80SC

Energy Efficiency Ratings:
Pump & Motor: PEICL: 0.92, ERCL: 8
Pump, Motor & Drive: PEIVL: 0.46, ERVL: 54

6x6x7B
1750 RPM

Series e-80SC

Energy Efficiency Ratings:
Pump & Motor: PEICL: 0.87, ERCL: 13
Pump, Motor & Drive: PEIVL: 0.44, ERVL: 56

2x2x9.5C
1750 RPM
Series e-80SC

1800 RPM PUMP CURVES

Energy Efficiency Ratings:
Pump & Motor: PEICL: 0.80   ERCL: 20
Pump, Motor & Drive: PEIVL: 0.46   ERVL: 54

Bell & Gossett

2.5x2.5x9.5C 1750 RPM

Date: 7/31/2015

Energy Efficiency Ratings:
Pump & Motor: PEICL: 0.92   ERCL: 8
Pump, Motor & Drive: PEIVL: 0.46   ERVL: 54

Bell & Gossett

1.5x1.5x9.5B 1750 RPM

Date: 7/31/2015
Energy Efficiency Ratings:
Pump & Motor: PEICL: 0.94  ERCL: 6
Pump, Motor & Drive: PEIVL: 0.47  ERVL: 53

Energy Efficiency Ratings:
Pump & Motor: PEICL: 0.95  ERCL: 5
Pump, Motor & Drive: PEIVL: 0.47  ERVL: 53
Series e-80SC

1800 RPM PUMP CURVES

Energy Efficiency Ratings:
- Pump & Motor: PEICL: 0.97, ERCL: 3
- Pump, Motor & Drive: PEIVL: 0.48, ERVL: 52

Bell & Gossett

5x5x9.5B
1770 RPM

Bell & Gossett

6x6x9.5B
1770 RPM

Date: 10/31/2015
Series e-80SC

Energy Efficiency Ratings:
Pump & Motor: $\text{PE}_{\text{ICL}}: 0.95 \quad \text{ER}_{\text{CL}}: 5$
Pump, Motor & Drive: $\text{PE}_{\text{IVL}}: 0.46 \quad \text{ER}_{\text{VL}}: 54$

Bell & Gossett

8x8x9.5B
1770 RPM

Series e-80SC

Energy Efficiency Ratings:
Pump & Motor: $\text{PE}_{\text{ICL}}: 0.95 \quad \text{ER}_{\text{CL}}: 5$
Pump, Motor & Drive: $\text{PE}_{\text{IVL}}: 0.48 \quad \text{ER}_{\text{VL}}: 52$

Bell & Gossett

3x3x11B
1750 RPM
Series e-80SC

1800 RPM PUMP CURVES

Energy Efficiency Ratings:
- Pump & Motor: PEICL: 0.96, ERCL: 4
- Pump, Motor & Drive: PEIVL: 0.47, ERVL: 53

Bell & Gossett

4x4x11B
1750 RPM

Date: 7/31/2015

Energy Efficiency Ratings:
- Pump & Motor: PEICL: 0.97, ERCL: 3
- Pump, Motor & Drive: PEIVL: 0.48, ERVL: 52

Bell & Gossett

6x6x11B
1750 RPM

Date: 10/31/2015
Series e-80SC

1800 RPM PUMP CURVES

Energy Efficiency Ratings:
Pump & Motor: PEICL: 0.97   ERCL: 3
Pump, Motor & Drive: PEIVL: 0.47   ERVL: 53

Company:
Name: Xylem
Date: 09/05/2019
Catalog: Xylem.Bell and Gossett.e-80SC.60 (1242), Vers 0.13.0

Series e-80SC

Design Point: ---
Static Head: 0 ft
Size: 5x5x11
Dia: 11 in
Curve: ---

Bell & Gossett

Energy Efficiency Ratings:
Pump & Motor: PEICL: 0.96   ERCL: 4
Pump, Motor & Drive: PEIVL: 0.47   ERVL: 53

5x5x11
1785 RPM
Series e-80SC

1800 RPM PUMP CURVES

Energy Efficiency Ratings:
Pump & Motor: PEICL: 0.96   ERCL: 4
Pump, Motor & Drive: PEIVL: 0.47   ERVL: 53

Bell & Gossett

5x5x13.5
1750 RPM

Date: 09/05/2019

Company: Xylem
Catalog: Xylem.Bell and Gossett.e-80SC.60 (1242), Vers 0.13.0

e-80SC - 1800 rpm
Design Point: ---
Static Head: 0 ft
Size: 6x6x13.5
Speed: 1785 rpm
Dia: 13.5 in
Curve: ---

CAPACITY
TOTAL HEAD

Bell & Gossett

6x6x13.5
1785 RPM

Date: 10/31/2015

Company: Bell & Gossett

Energy Efficiency Ratings:
Pump & Motor: PEICL: 0.92   ERCL: 8
Pump, Motor & Drive: PEIVL: 0.45   ERVL: 55
Series e-80SC

Energy Efficiency Ratings:
Pump & Motor: PECL: 0.99 ERCL: 1
Pump, Motor & Drive: PEIVL: 0.49 ERVL: 51

Bell & Gossett
8x8x13.5B
1770 RPM

1800 RPM PUMP CURVES

Series e-80SC

Energy Efficiency Ratings:
Pump & Motor: PECL: 0.97 ERCL: 3
Pump, Motor & Drive: PEIVL: 0.47 ERVL: 53

Bell & Gossett
10x10x13.5
1770 RPM

Date: 11/02/2003
Series e-80SC

Energy Efficiency Ratings:
Not applicable: double suction pump design - out of DOE regulation scope.

Bell & Gossett
12x12x13
1780 RPM

Energy Efficiency Ratings:
Not applicable: double suction pump design - out of DOE regulation scope.

Series e-80SC

Bell & Gossett
14x14x14
1780 RPM

Energy Efficiency Ratings:
Not applicable: double suction pump design - out of DOE regulation scope.
Series e-80SC

Energy Efficiency Ratings:
Not applicable: maximum Hp below 1 Hp and 1200 RPM - out of DOE regulation scope.

Bell & Gossett

1.5x1.5x7C
1150 RPM

1200 RPM PUMP CURVES

Series e-80SC

Energy Efficiency Ratings:
Not applicable: maximum Hp below 1 Hp and 1200 RPM - out of DOE regulation scope.

Bell & Gossett

2x2x7B
1150 RPM
Series e-80SC

Energy Efficiency Ratings:
Not applicable: maximum Hp below 1 Hp and 1200 RPM - out of DOE regulation scope.

Bell & Gossett

2.5x2.5x7B
1150 RPM

Series e-80SC

Energy Efficiency Ratings:
Not applicable: maximum Hp below 1 Hp and 1200 RPM - out of DOE regulation scope.

Bell & Gossett

3x3x7C
1150 RPM
Energy Efficiency Ratings:
Not applicable: 1200 RPM - out of DOE regulation scope.

"6” and below requires oversized diameter and angle trim. See manual.
Energy Efficiency Ratings:
Not applicable: 1200 RPM - out of DOE regulation scope.
Series e-80SC

1200 RPM PUMP CURVES

Energy Efficiency Ratings:
Not applicable: 1200 RPM - out of DOE regulation scope.

Series e-80SC

Bell & Gossett

2x2x9.5C
1150 RPM

Energy Efficiency Ratings:
Not applicable: 1200 RPM - out of DOE regulation scope.

Series e-80SC

Bell & Gossett

2.5x2.5x9.5C
1170 RPM

Energy Efficiency Ratings:
Not applicable: 1200 RPM - out of DOE regulation scope.
Energy Efficiency Ratings:
Not applicable: 1200 RPM - out of DOE regulation scope.

Series e-80SC

1200 RPM PUMP CURVES

Bell & Gossett
3x3x9.5C
1150 RPM

Bell & Gossett
4x4x9.5B
1170 RPM

Energy Efficiency Ratings:
Not applicable: 1200 RPM - out of DOE regulation scope.
Energy Efficiency Ratings:
Not applicable: 1200 RPM - out of DOE regulation scope.

1200 RPM PUMP CURVES

Series e-80SC

Bell & Gossett

5x5x9.5B
1170 RPM

Energy Efficiency Ratings:
Not applicable: 1200 RPM - out of DOE regulation scope.

Bell & Gossett

6x6x9.5B
1170 RPM
Energy Efficiency Ratings:
Not applicable: 1200 RPM - out of DOE regulation scope.
Series e-80SC

Bell & Gossett

Energy Efficiency Ratings:
Not applicable: 1200 RPM - out of DOE regulation scope.

Series e-80SC

Bell & Gossett

Energy Efficiency Ratings:
Not applicable: 1200 RPM - out of DOE regulation scope.
Series e-80SC

Energy Efficiency Ratings:
Not applicable: 1200 RPM - out of DOE regulation scope.

1200 RPM PUMP CURVES

Series e-80SC

Bell & Gossett

6x6x11B
1170 RPM

Total Head

Capacity

NPSHr (ft) (m)

Series e-80SC

Bell & Gossett

8x8x11B
1150 RPM

Total Head

Capacity

NPSHr (ft) (m)
Series e-80SC

1200 RPM PUMP CURVES

Energy Efficiency Ratings:
Not applicable: 1200 RPM - out of DOE regulation scope.

Series e-80SC

3x3x13.5
1180 RPM

Bell & Gossett

Energy Efficiency Ratings:
Not applicable: 1200 RPM - out of DOE regulation scope.

Series e-80SC

4x4x13.5
1150 RPM

Bell & Gossett

Date: 7/21/2015

NPSHr (Ft) (M)

0 2 4 6

0 10 20 30

0 25 50 75 100 125

(GPM)

(m³/h)

CAPACITY

TOTAL HEAD

CAPACITY

TOTAL HEAD

GPM
Energy Efficiency Ratings:
Not applicable: 1200 RPM - out of DOE regulation scope.

Series e-80SC

Bell & Gossett

5x5x13.5
1180 RPM

6x6x13.5
1190 RPM

Date: 7/31/2015
Series e-80SC 1200 RPM PUMP CURVES

**Energy Efficiency Ratings:**

Not applicable: 1200 RPM - out of DOE regulation scope.

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**Series e-80SC**

Bell & Gossett

8x8x13.5B
1150 RPM

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**Series e-80SC**

Bell & Gossett

10x10x13.5
1150 RPM

---
Energy Efficiency Ratings:
Not applicable: 1200 RPM and double suction pump design - out of DOE regulation scope.

Series e-80SC

Bell & Gossett
12x12x13
1180 RPM

Series e-80SC

Bell & Gossett
14x14x14
1180 RPM
Series e-80SC

Energy Efficiency Ratings:
Pump & Motor: PEICL: 0.87   ERCL: 13
Pump, Motor & Drive: PEIVL: 0.44   ERVL: 56

3600 RPM PUMP CURVES

Series e-80SC

Bell & Gossett
1.5x1.5x7C
3550 RPM

Energy Efficiency Ratings:
Pump & Motor: PEICL: 0.82   ERCL: 18
Pump, Motor & Drive: PEIVL: 0.42   ERVL: 58

Series e-80SC

Bell & Gossett
2x2x7B
3550 RPM

Energy Efficiency Ratings:
Pump & Motor: PEICL: 0.87   ERCL: 13
Pump, Motor & Drive: PEIVL: 0.44   ERVL: 56
Series e-80SC

Energy Efficiency Ratings:
Pump & Motor: PEIC: 0.89  ERCL: 10
Pump, Motor & Drive: PEIV: 0.45  ERVL: 55

5500 RPM PUMP CURVES

Energy Efficiency Ratings:
Pump & Motor: PEIC: 0.90  ERCL: 10
Pump, Motor & Drive: PEIV: 0.45  ERVL: 55
Series e-80SC

3600 RPM PUMP CURVES

**Energy Efficiency Ratings:**
- Pump & Motor: PEI = 0.96, ER = 4
- Pump, Motor & Drive: PEIVL = 0.48, ERV = 52

**Bell & Gossett**

4x4x7B
3550 RPM

**Series e-80SC**

**Energy Efficiency Ratings:**
- Pump & Motor: PEI = 0.94, ER = 6
- Pump, Motor & Drive: PEIVL = 0.48, ERV = 52

**Bell & Gossett**

5x5x7B
3550 RPM

**Company:**
- Xylem

**Catalog:**
- Xylem.Bell and Gossett.e-80SC.60 (1242), Vers 0.13.0

**Size:**
- 4x4x7B
- 5x5x7B

**Speed:**
- 3550 rpm

**Dia:**
- 7 in

**Curve:**
- ---
Xylem |ˈzɪləm|

1) The tissue in plants that brings water upward from the roots;
2) a leading global water technology company.

We’re a global team unified in a common purpose: creating advanced technology solutions to the world’s water challenges. Developing new technologies that will improve the way water is used, conserved, and re-used in the future is central to our work. Our products and services move, treat, analyze, monitor and return water to the environment, in public utility, industrial, residential and commercial building services settings. Xylem also provides a leading portfolio of smart metering, network technologies and advanced analytics solutions for water, electric and gas utilities. In more than 150 countries, we have strong, long-standing relationships with customers who know us for our powerful combination of leading product brands and applications expertise with a strong focus on developing comprehensive, sustainable solutions.

For more information on how Xylem can help you, go to www.xyleminc.com

We value your feedback. Please take our 3 question survey at bellgossett.com/survey to let us know how we are doing.