Series e-80SC
SPLIT COUPLED VERTICAL IN-LINE CENTRIFUGAL PUMP
PERFORMANCE CURVES - 60 HZ
Series e-80SC

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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

Bell & Gossett
1.5x1.5x7C
1750 RPM

Energy Efficiency Ratings:
Pump & Motor: PEICL: 0.96 ERCL: 4
Pump, Motor & Drive: PEIVL: 0.57 ERVL: 49

Bell & Gossett
2x2x7B
1750 RPM

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

Pump, Motor & Drive: PEIVL: 0.48   ERVL: 52

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

Date: 7/31/2015

2.5x2.5x7B
1750 RPM

Bell & Gossett

Series e-80SC

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

Date: 7/31/2015

3x3x7C
1750 RPM

Bell & Gossett
Series e-80SC

1800 RPM PUMP CURVES

Energy Efficiency Ratings:
Pump & Motor: \text{PEICL: 0.80} \quad \text{ERCL: 8}
Pump, Motor & Drive: \text{PEIVL: 0.42} \quad \text{ERVL: 58}

Energy Efficiency Ratings:
Pump & Motor: \text{PEICL: 0.92} \quad \text{ERCL: 8}
Pump, Motor & Drive: \text{PEIVL: 0.46} \quad \text{ERVL: 54}

Bell & Gossett

2.5x2.5x9.5C
1750 RPM

Energy Efficiency Ratings:
Pump & Motor: \text{PEICL: 0.80} \quad \text{ERCL: 8}
Pump, Motor & Drive: \text{PEIVL: 0.42} \quad \text{ERVL: 58}

Energy Efficiency Ratings:
Pump & Motor: \text{PEICL: 0.80} \quad \text{ERCL: 8}
Pump, Motor & Drive: \text{PEIVL: 0.42} \quad \text{ERVL: 58}

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

1800 RPM PUMP CURVES

Energy Efficiency Ratings:
Pump & Motor: PEICL: 0.94 ERCL: 6
Pump, Motor & Drive: PEIVL: 0.47 ERVL: 53

Series e-80SC

Bell & Gossett

3x3x9.5C
1750 RPM

Energy Efficiency Ratings:
Pump & Motor: PEICL: 0.95 ERCL: 5
Pump, Motor & Drive: PEIVL: 0.47 ERVL: 53

Series e-80SC

Bell & Gossett

4x4x9.5B
1770 RPM

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

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

Bell & Gossett

5x5x9.5B
1770 RPM

Energy Efficiency Ratings:
Pump & Motor: PEICL: 0.99  ERCL: 1
Pump, Motor & Drive: PEIVL: 0.48  ERVL: 52

Bell & Gossett

6x6x9.5B
1770 RPM
Series e-80SC

1800 RPM PUMP CURVES

Energy Efficiency Ratings:
Pump & Motor: PEICL: 0.95  ERCL: 5
Pump, Motor & Drive: PEIVL: 0.46  ERVL: 54

Bell & Gossett

8x8x9.5B
1770 RPM

Date: 7/31/2015

Bell & Gossett

3x3x11B
1750 RPM

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

1800 RPM PUMP CURVES

Bell & Gossett

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

Series e-80SC - 1800 rpm

Design Point: ---

Static Head: 0 ft

Size: 5x5x11
Speed: 1785 rpm
Dia: 11 in
Curve: ---

Series e-80SC

Bell & Gossett

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

5x5x11B
1750 RPM

8x8x11B
1750 RPM

5x5x11
1785 RPM
Series e-80SC

Energy Efficiency Ratings:
Pump & Motor: $PEICL_{e-80SC} = 0.97$, $ERCL_{e-80SC} = 3$
Pump, Motor & Drive: $PEIVL_{e-80SC} = 0.48$, $ERVL_{e-80SC} = 52$

1800 RPM PUMP CURVES

Series e-80SC

Bell & Gossett

3x3x13.5
1785 RPM

Energy Efficiency Ratings:
Pump & Motor: $PEICL_{e-80SC} = 0.89$, $ERCL_{e-80SC} = 11$
Pump, Motor & Drive: $PEIVL_{e-80SC} = 0.44$, $ERVL_{e-80SC} = 56$

Series e-80SC

Bell & Gossett

4x4x13.5
1750 RPM

Energy Efficiency Ratings:
Pump & Motor: $PEICL_{e-80SC} = 0.97$, $ERCL_{e-80SC} = 3$
Pump, Motor & Drive: $PEIVL_{e-80SC} = 0.48$, $ERVL_{e-80SC} = 52$
Series e-80SC

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

1800 RPM PUMP CURVES

Company:
Name:
Date: 09/05/2019

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: ---

Series e-80SC

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

Bell & Gossett

5x5x13.5
1750 RPM

6x6x13.5
1785 RPM
**Series e-80SC**

**1800 RPM PUMP CURVES**

**Bell & Gossett**

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

**12x12x13**

- 1780 RPM
- 250HP
- 200HP
- 150HP
- 125HP
- 100HP

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

**14x14x14**

- 1780 RPM
- 300HP
- 250HP
- 200HP
- 150HP

**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.

1200 RPM PUMP CURVES

1.5x1.5x7C
1150 RPM

Bell & Gossett

2x2x7B
1150 RPM

Bell & Gossett

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

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

**Bell & Gossett**

**6x6x7B**
**1150 RPM**

**Bell & Gossett**

**1.5x1.5x9.5B**
**1150 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

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

Bell & Gossett

3x3x9.5C
1150 RPM

Date: 7/31/2015

Bell & Gossett

4x4x9.5B
1170 RPM

Date: 7/31/2015
Energy Efficiency Ratings:
Not applicable: 1200 RPM - out of DOE regulation scope.

Bell & Gossett
5x5x9.5B
1170 RPM

Series e-80SC

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.

Date: 7/31/2015
Energy Efficiency Ratings:
Not applicable: 1200 RPM - out of DOE regulation scope.

Bell & Gossett

1200 RPM PUMP CURVES

Series e-80SC

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

Bell & Gossett

Series e-80SC

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
1200 RPM PUMP CURVES

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

Bell & Gossett
3x3x13.5
1180 RPM

Series e-80SC

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

Bell & Gossett
4x4x13.5
1150 RPM
Series e-80SC

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

Bell & Gossett 5x5x13.5 1180 RPM

CAPACITY

TOTAL HEAD

NPSHr
(Ft) (M)

Date: 7/31/2015

Series e-80SC

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

Bell & Gossett 6x6x13.5 1190 RPM

CAPACITY

TOTAL HEAD

NPSHr
(Ft) (M)
Series e-80SC

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

Bell & Gossett

8x8x13.5B
1150 RPM

1200 RPM PUMP CURVES

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

Bell & Gossett

10x10x13.5
1150 RPM

Series e-80SC

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

1200 RPM PUMP CURVES

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

Series e-80SC

Bell & Gossett

14x14x14
1180 RPM
Series e-80SC

Energy Efficiency Ratings:
Pump & Motor: PEICL: 0.87   ERCL: 18
Pump, Motor & Drive: PEIVL: 0.42   ERVL: 58

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

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

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: PEICL: 0.90   ERCL: 10
Pump, Motor & Drive: PEIVL: 0.45   ERVL: 55

3600 RPM PUMP CURVES

Bell & Gossett
2.5x2.5x7B
3550 RPM

Series e-80SC

Energy Efficiency Ratings:
Pump & Motor: PEICL: 0.89   ERCL: 11
Pump, Motor & Drive: PEIVL: 0.45   ERVL: 55

Date: 7/31/2015

Bell & Gossett
3x3x7C
3550 RPM

Date: 7/31/2015

Total Head (M)

Capacity (GPM)

Total Head (M)

Capacity (M³/H)
Series e-80SC

Bell & Gossett

Energy Efficiency Ratings:
Pump & Motor: PEICL: 0.95 ERCL: 5
Pump, Motor & Drive: PEIVL: 0.50 ERVL: 50

6x6x7B
3550 RPM

Series e-80SC

Energy Efficiency Ratings:
Pump & Motor: PEICL: 0.74 ERCL: 26
Pump, Motor & Drive: PEIVL: 0.40 ERVL: 60

1.5x1.5x9.5B
3525 RPM

Date: 7/31/2015

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