

Series e-82SC

Split-Coupled Twin Vertical In-Line Mounted Centrifugal
Pump Performance Curves



Service and support from the most trusted name in the industry – Bell & Gossett

The Bell & Gossett name has always stood for uncompromising quality and dependability. That's evident in the way every one of our centrifugal pumps is built and backed by our outstanding customer service and support team.

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- Centrifugal Pumps
- Air/Dirt Separators
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- Expansion Tanks
- Heat Exchangers
- PIC Valves
- Replacement Parts
- Suction Diffuser and Triple Duty Valve
- Wastewater/Stormwater

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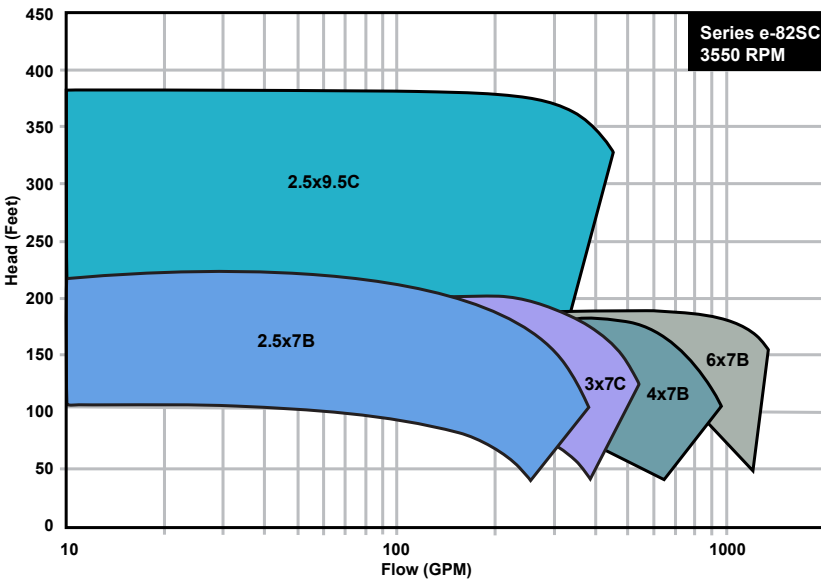
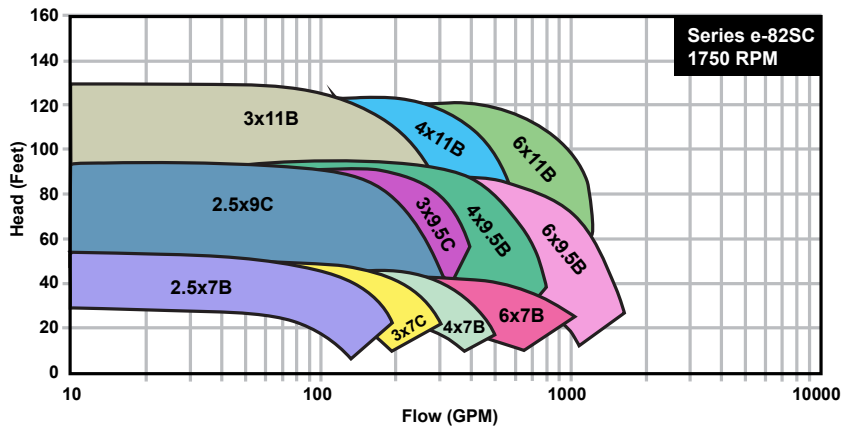
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MODEL LIST

No.	e-82SC Model ¹	2-Pole	4-Pole	6-Pole
1	2.5x2.5x7	•	•	•
2	2.5x2.5x9.5	•	•	•
3	3x3x7	•	•	•
4	3x3x9.5		•	•
5	3x3x11		•	•
6	4x4x7	•	•	•
7	4x4x9.5		•	•
8	4x4x11		•	•
9	6x6x7	•	•	•
10	6x6x9.5		•	•
11	6x6x11		•	•

¹Pump model nomenclature: (Discharge diameter) x (Suction diameter) x (Impeller diameter) in inches

e-82SC PUMP PERFORMANCE RANGE (STANDBY OPERATION)



GENERAL INTRODUCTION

The e-82 and e-82SC twin vertical in-line centrifugal pumps are an ideal solution for parallel staging or back-up capacity. Our expanded line of energy efficient in-line pumps include 11 new close coupled and 11 new split coupled models. The pumps are stainless steel fitted, matching the hydraulics and the flange to flange dimensions of the current pumps, with double the power in a compact footprint. Parallel pumping provides redundant capacity and the capability to meet duty requirements with smaller horsepower motors and drives and improved pump efficiency at reduced flow. As system load is reduced, pumps can be de-staged to achieve higher motor and drives efficiencies.

Applications

- Hydronic heating and cooling systems
- Light industrial process
- General service
- Pressure boosting
- OEM applications

Hydraulic Specifications

- Maximum flow: **approx. 1,400 GPM standby and approx. 2,500 GPM parallel**
- Maximum head: **approx. 400 ft.**
- Hydraulic performance compliant with ANSI/HI 14.6 and ISO 9906:2012 (Grade 2B)

Fluid Temperature Range

- Standard configuration: **-20 to 225°F**

Maximum Operating Pressure

- Casing working pressure: **175 psi**

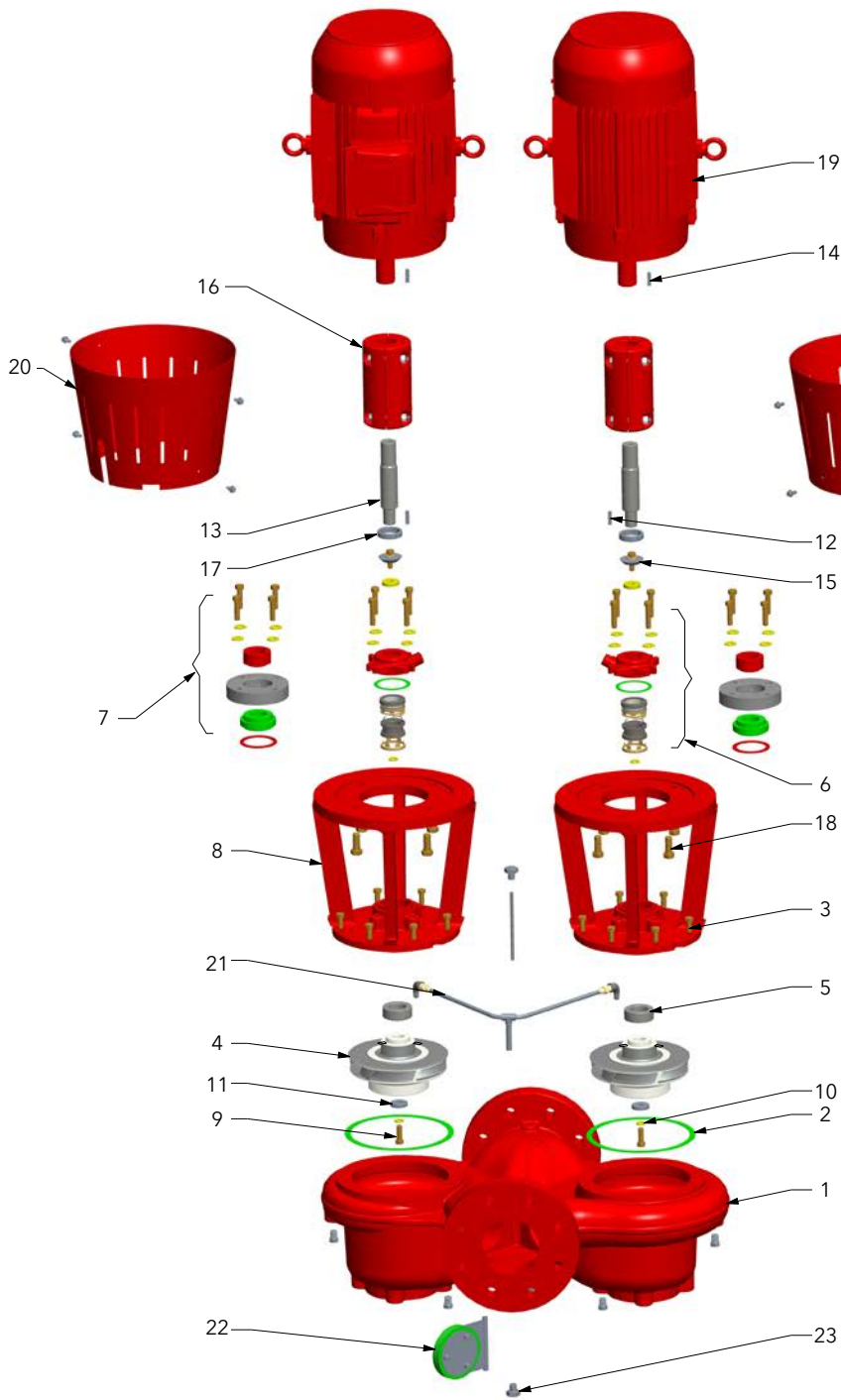
Flange Drilling Specifications

- ASME/ANSI B16.1, 125#

Motor Specifications

- **NEMA Premium** efficiency per EISA 2010
- 2, 4, 6-pole ranges
- Maximum 3-phase ambient temperature: **104°F [40°C]**
- Inverter-Duty Ready
- Open Drip Proof (ODP) enclosure (standard)
- Performances according to **NEMA MG-1**
- **Class F** insulation
- Standard voltages: Three Phase, 208/230/460 Volt

e-82SC GENERAL EXPLODED VIEW



e-82SC LEGEND

NO	Description	QTY
1	Volute	1
2	Volute Gasket	2
3	Volute Capscrew	*
4	Impeller	2
5	Throttle Bushing (Bearing)	2
6	Inside Mechanical Seal	2
7	Outside Mechanical Seal	2
8	Motor Bracket	8
9	Impeller Bolt	2
10	Impeller Lockwasher	2
11	Impeller Washer	2
12	Impeller Key	2
13	Shaft	2
14	Coupler Key	2
15	Tapered Capscrew Kit	2
16	Coupler, Split	2
17	Collar	2
18	Motor Bracket Capscrew	8
19	Motor	2
20	Guard	2
21	Flush Line Assembly	1
22	Flapper Assembly	1
23	Self Sealing Screw	2

*Quantity varies with pump size

MECHANICAL SEALS

Material	e-82SC Standard Seal Configuration		e-82SC Optional Seal Configuration		
	Standard, EPR/Carbon/Ceramic	Optional, Viton/Carbon/Ceramic	Optional, EPR/Carbon/Tungsten Carbide ¹	Optional, EPR/Silicon Carbide/Silicon Carbide ¹	Optional, Viton/Carbon/Tungsten Carbide ¹
Operating temperature range	-20 to 250 °F	-10 to 225 °F	-20 to 250 °F	-20 to 250 °F	-20 to 250 °F
pH range limits	7.0 to 9.0	7.0 to 9.0	7.0 to 11.0	7.0 to 12.5	7.0 to 9.0
Resistance to dissolved solids	Low	Low	Low-Medium	Medium-High	Low-Medium
Maximum glycol/water concentration	50/50%	50/50%	50/50%	60/40%	50/50%

¹Requires external flush

MATERIAL CONFIGURATIONS

Component	Standard Option		Other Options
Casing	Cast Iron	Ductile Iron	-
Impeller	Stainless Steel		-
Wear Ring	-		Stainless Steel

¹Available installed with flush line only

²Available installed with a sight flow indicator or as a standalone kit

³Available as kit only

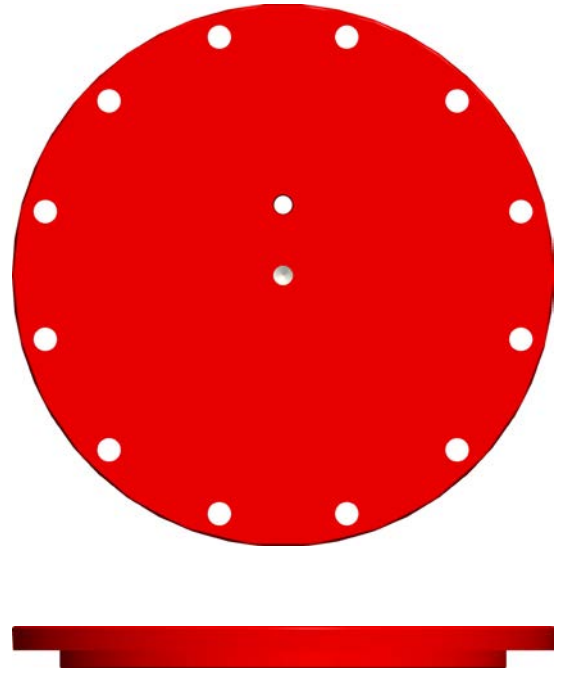
Other Accessories
Sight Flow Indicator ¹
Cuno Filter ²
Sediment Separator ²
Heat Exchanger ³
Flange Supports
Blind Flange

e-82SC PUMP ACCESSORIES

Blind Flange

Description

- When the blind flange is installed, one of the e-82SC twin in-line pump rotating assemblies may be removed. This allows for the pump to operate in standby mode while maintenance can be performed on the non-operational motor or rotating assembly. Refer to the e-82SC pump instruction manual for more information about the e-82SC blind flange.



Variable Frequency Drives (VFDs) Overview

Description

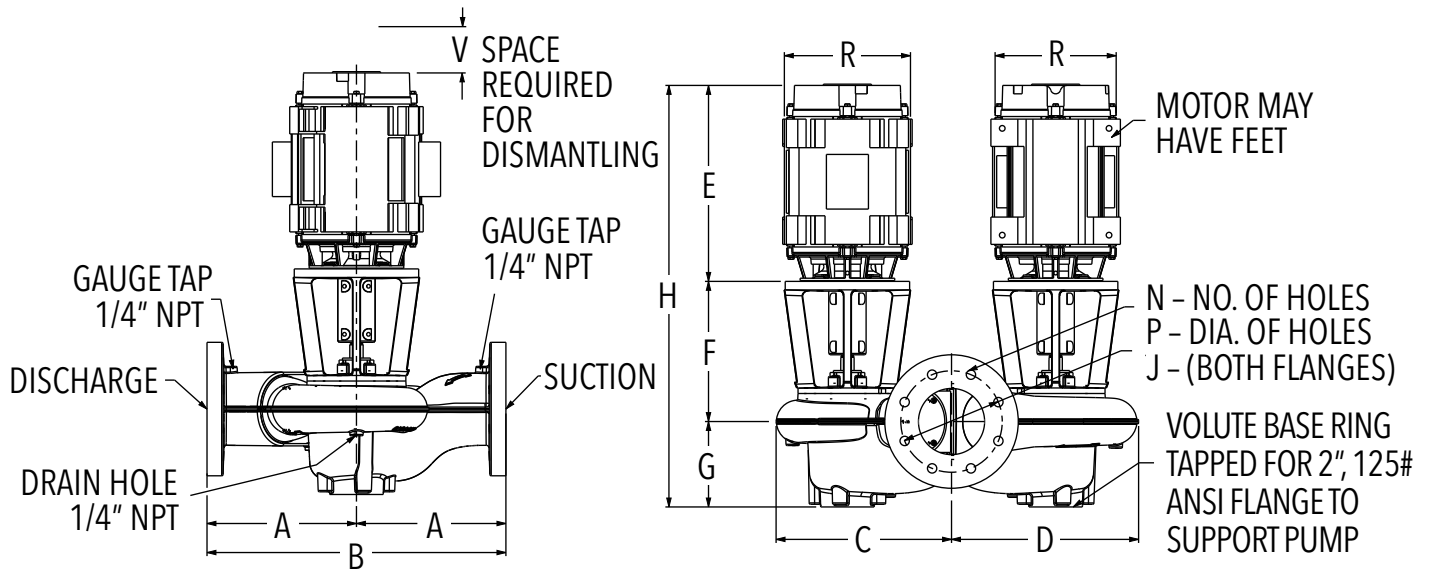
- Integrated Technologic® IPC Variable Speed Controller

Attributes

- 230/460/575V
- 1.5 to 125 hp range options
- Temperature rating: 14°F to 113°F [-10°C to 45°C]
- Sensored or sensorless control
- Built-in BACnet, Modbus RTU, N2 Metasys, FLN
- 2 analog inputs, 1 analog output
- 4 digital inputs, 2 digital outputs
- Mains disconnect with optional fuses
- UL TYPE 12 & IP55 enclosure
- Certified by ETL
- Fan-cooled via temperature controller

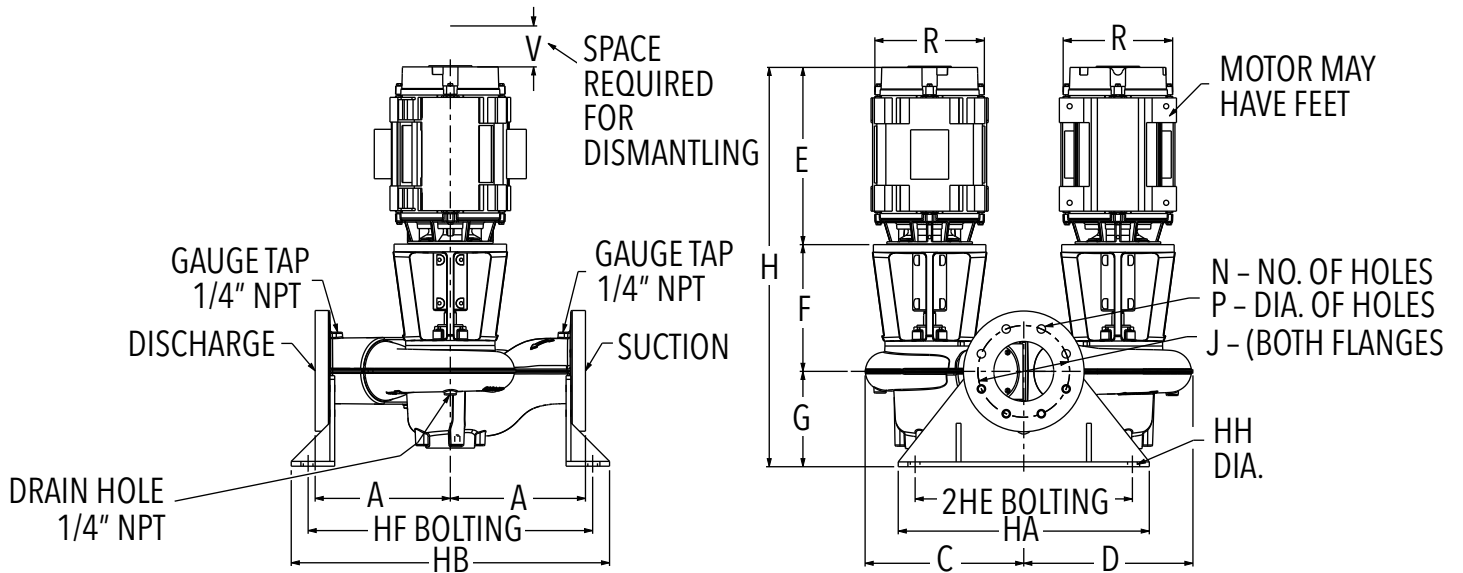
e-82SC PUMP DIMENSIONAL DATA

e-82SC 2.5x2.5x7



e-82SC Standard Configuration DIMENSIONS - inches (mm)													
MOTOR FRAME	A	B	C	D	E (max)	F	G	H (max)	125# ANSI			R	V (min)
									J	N	P		
143TC	9.00 (229)	18.00 (457)	12.19 (310)	12.58 (320)	12.05 (306)	11.66 (296)	6.00 (152)	29.71 (755)	5.50 (140)	4	0.75 (19)	7.19 (183)	4.50 (114)
145TC	9.00 (229)	18.00 (457)	12.19 (310)	12.58 (320)	12.05 (306)	11.66 (296)	6.00 (152)	29.71 (755)	5.50 (140)	4	0.75 (19)	7.19 (183)	4.50 (114)
182TC	9.00 (229)	18.00 (457)	12.19 (310)	12.58 (320)	12.25 (311)	11.94 (303)	6.00 (152)	30.19 (767)	5.50 (140)	4	0.75 (19)	8.75 (222)	4.50 (114)
184TC	9.00 (229)	18.00 (457)	12.19 (310)	12.58 (320)	13.25 (337)	11.94 (303)	6.00 (152)	31.19 (792)	5.50 (140)	4	0.75 (19)	8.75 (222)	4.50 (114)
213TC	9.00 (229)	18.00 (457)	12.19 (310)	12.58 (320)	14.88 (378)	11.94 (303)	6.00 (152)	32.82 (834)	5.50 (140)	4	0.75 (19)	10.63 (270)	4.50 (114)
215TC	9.00 (229)	18.00 (457)	12.19 (310)	12.58 (320)	14.88 (378)	11.94 (303)	6.00 (152)	32.82 (834)	5.50 (140)	4	0.75 (19)	10.63 (270)	4.50 (114)
254TC	9.00 (229)	18.00 (457)	12.19 (310)	12.58 (320)	19.44 (494)	11.94 (303)	6.00 (152)	37.38 (949)	5.50 (140)	4	0.75 (19)	12.31 (313)	4.50 (114)

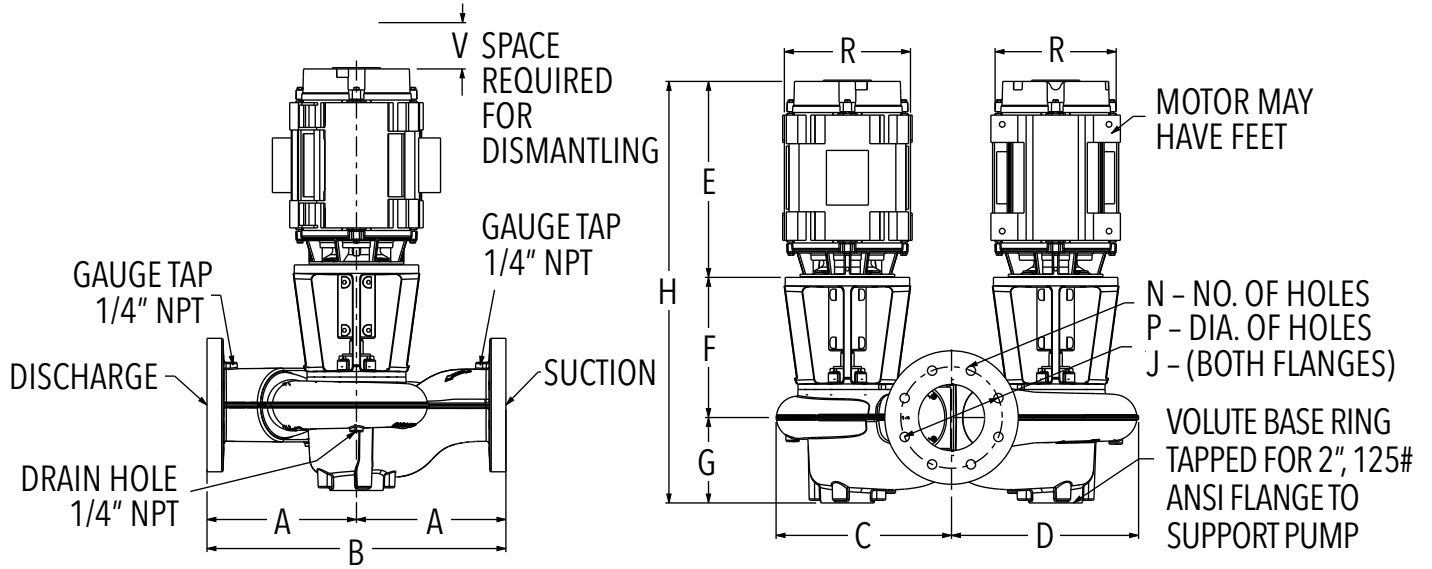
Dimensions are subject to change. Not to be used for construction purposes unless certified.
NOTE: For TEFC add 1-1/2" to dimensions E & H.



e-82SC with Flange Support DIMENSIONS - inches (mm)							
MOTOR FRAME	HF BOLTING	HB	2HE BOLTING	HA	HH DIA	G	H (max)
143TC	20.20 (513)	23.70 (602)	21.50 (546)	25.00 (635)	0.88 (22)	7.00 (178)	30.71 (780)
145TC	20.20 (513)	23.70 (602)	21.50 (546)	25.00 (635)	0.88 (22)	7.00 (178)	30.71 (780)
182TC	20.20 (513)	23.70 (602)	21.50 (546)	25.00 (635)	0.88 (22)	7.00 (178)	31.19 (792)
184TC	20.20 (513)	23.70 (602)	21.50 (546)	25.00 (635)	0.88 (22)	7.00 (178)	32.19 (818)
213TC	20.20 (513)	23.70 (602)	21.50 (546)	25.00 (635)	0.88 (22)	7.00 (178)	33.81 (859)
215TC	20.20 (513)	23.70 (602)	21.50 (546)	25.00 (635)	0.88 (22)	7.00 (178)	33.81 (859)
254TC	20.20 (513)	23.70 (602)	21.50 (546)	25.00 (635)	0.88 (22)	7.00 (178)	38.38 (975)

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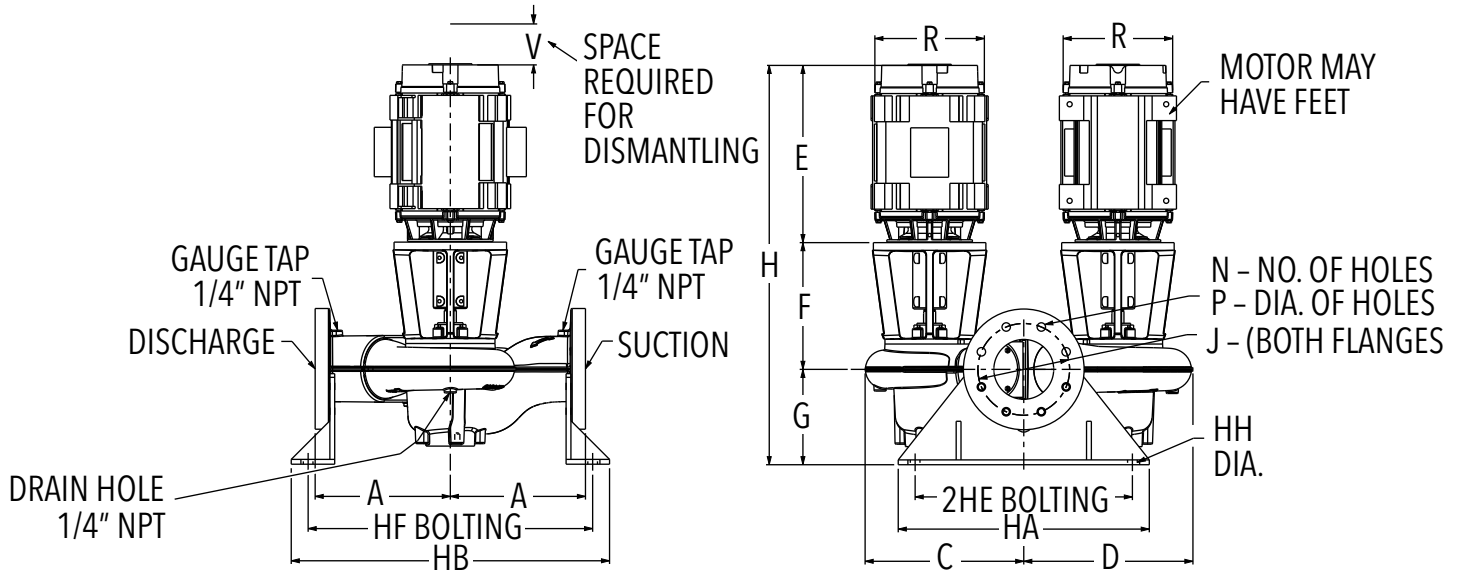
e-82SC 2.5x2.5x9.5



e-82SC Standard Configuration DIMENSIONS - inches (mm)													
MOTOR FRAME	A	B	C	D	E (max)	F	G	H (max)	125# ANSI			R	V (min)
									J	N	P		
143TC	10.75 (273)	21.50 (546)	14.93 (379)	15.36 (390)	12.05 (306)	11.64 (296)	6.25 (159)	29.94 (760)	5.50 (140)	4	0.75 (19)	7.19 (183)	4.75 (121)
145TC	10.75 (273)	21.50 (546)	14.93 (379)	15.36 (390)	12.05 (306)	11.64 (296)	6.25 (159)	29.94 (760)	5.50 (140)	4	0.75 (19)	7.19 (183)	4.75 (121)
182TC	10.75 (273)	21.50 (546)	14.93 (379)	15.36 (390)	12.25 (311)	11.89 (302)	6.25 (159)	30.39 (772)	5.50 (140)	4	0.75 (19)	8.75 (222)	4.75 (121)
184TC	10.75 (273)	21.50 (546)	14.93 (379)	15.36 (390)	13.25 (337)	11.89 (302)	6.25 (159)	31.39 (797)	5.50 (140)	4	0.75 (19)	8.75 (222)	4.75 (121)
213TC	10.75 (273)	21.50 (546)	14.93 (379)	15.36 (390)	14.88 (378)	11.89 (302)	6.25 (159)	33.02 (839)	5.50 (140)	4	0.75 (19)	10.63 (270)	4.75 (121)
215TC	10.75 (273)	21.50 (546)	14.93 (379)	15.36 (390)	14.88 (378)	11.89 (302)	6.25 (159)	33.02 (839)	5.50 (140)	4	0.75 (19)	10.63 (270)	4.75 (121)
284TSC	10.75 (273)	21.50 (546)	14.93 (379)	15.36 (390)	22.06 (560)	14.70 (373)	6.25 (159)	43.01 (1092)	5.50 (140)	4	0.75 (19)	14.13 (359)	6.00 (152)
286TSC	10.75 (273)	21.50 (546)	14.93 (379)	15.36 (390)	23.56 (598)	14.70 (373)	6.25 (159)	44.51 (1131)	5.50 (140)	4	0.75 (19)	14.13 (359)	6.00 (152)
324TSC	10.75 (273)	21.50 (546)	14.93 (379)	15.36 (390)	24.63 (626)	14.70 (373)	6.25 (159)	45.58 (1158)	5.50 (140)	4	0.75 (19)	15.56 (395)	6.00 (152)
326TSC	10.75 (273)	21.50 (546)	14.93 (379)	15.36 (390)	26.13 (664)	14.70 (373)	6.25 (159)	47.08 (1196)	5.50 (140)	4	0.75 (19)	15.56 (395)	6.00 (152)
364TSC	10.75 (273)	21.50 (546)	14.93 (379)	15.36 (390)	28.06 (713)	14.70 (373)	6.25 (159)	49.01 (1245)	5.50 (140)	4	0.75 (19)	18.75 (476)	6.00 (152)

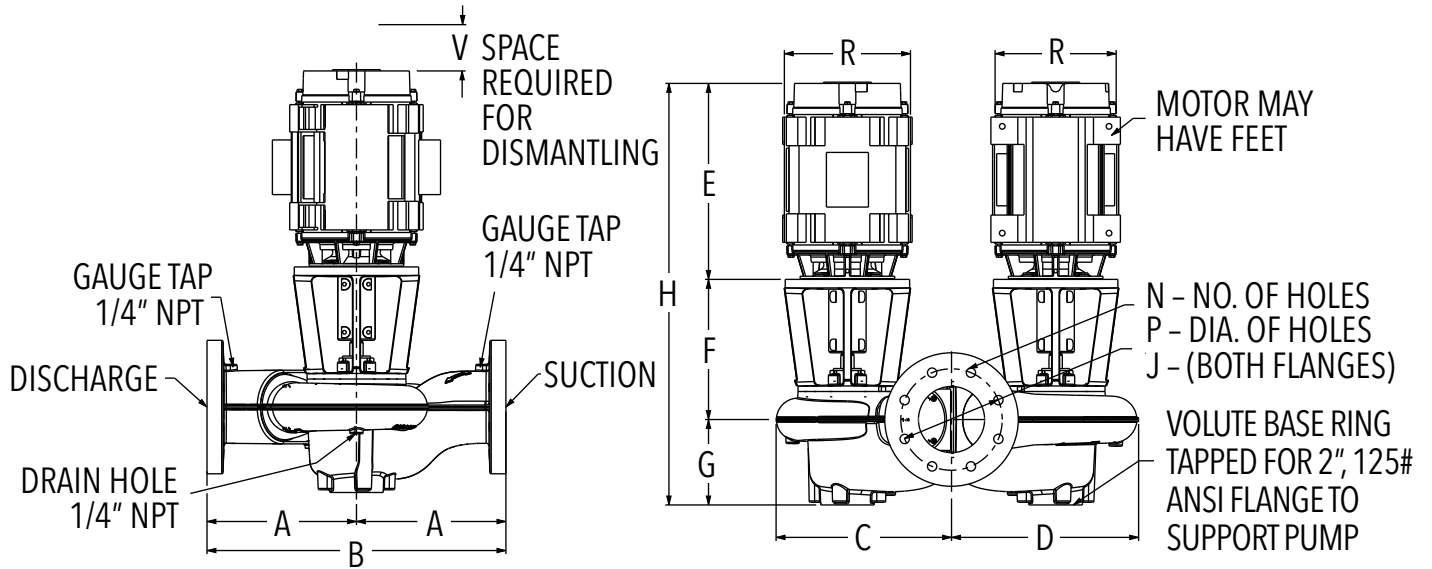
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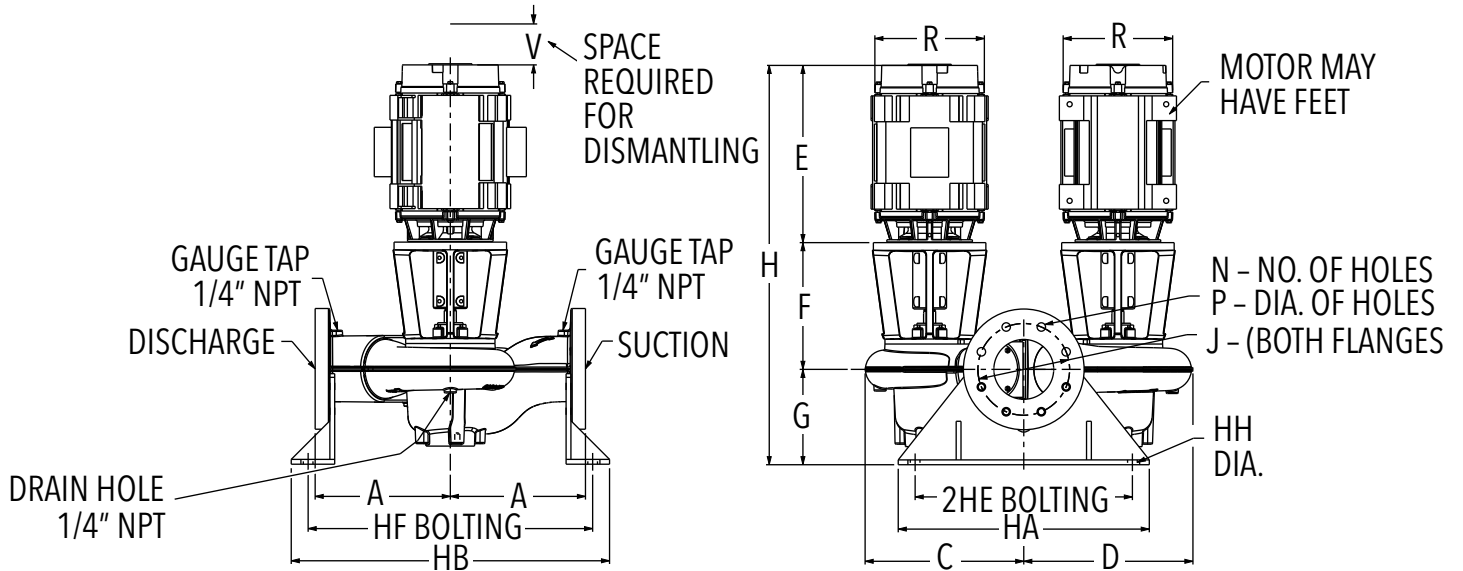
e-82SC with Flange Support DIMENSIONS - inches (mm)							
MOTOR FRAME	HF BOLTING	HB	2HE BOLTING	HA	HH DIA	G	H (max)
143TC	23.73 (603)	27.23 (692)	21.50 (546)	25.00 (635)	0.88 (22)	7.00 (178)	30.69 (779)
145TC	23.73 (603)	27.23 (692)	21.50 (546)	25.00 (635)	0.88 (22)	7.00 (178)	30.69 (779)
182TC	23.73 (603)	27.23 (692)	21.50 (546)	25.00 (635)	0.88 (22)	7.00 (178)	31.14 (791)
184TC	23.73 (603)	27.23 (692)	21.50 (546)	25.00 (635)	0.88 (22)	7.00 (178)	32.14 (816)
213TC	23.73 (603)	27.23 (692)	21.50 (546)	25.00 (635)	0.88 (22)	7.00 (178)	33.76 (858)
215TC	23.73 (603)	27.23 (692)	21.50 (546)	25.00 (635)	0.88 (22)	7.00 (178)	33.76 (858)
284TSC	23.73 (603)	27.23 (692)	21.50 (546)	25.00 (635)	0.88 (22)	7.00 (178)	43.76 (1112)
286TSC	23.73 (603)	27.23 (692)	21.50 (546)	25.00 (635)	0.88 (22)	7.00 (178)	45.26 (1150)
324TSC	23.73 (603)	27.23 (692)	21.50 (546)	25.00 (635)	0.88 (22)	7.00 (178)	46.33 (1177)
326TSC	23.73 (603)	27.23 (692)	21.50 (546)	25.00 (635)	0.88 (22)	7.00 (178)	47.83 (1215)
364TSC	23.73 (603)	27.23 (692)	21.50 (546)	25.00 (635)	0.88 (22)	7.00 (178)	49.76 (1264)

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 NOTE: For TEFC add 1-1/2" to dimensions E & H.



e-82SC Standard Configuration DIMENSIONS - inches (mm)													
MOTOR FRAME	A	B	C	D	E (max)	F	G	H (max)	125# ANSI			R	V (min)
									J	N	P		
143TC	9.50 (241)	19.00 (483)	13.17 (334)	13.83 (351)	12.05 (306)	11.75 (298)	6.25 (159)	30.05 (763)	6.00 (152)	4	0.75 (19)	7.19 (183)	4.50 (114)
145TC	9.50 (241)	19.00 (483)	13.17 (334)	13.83 (351)	12.05 (306)	11.75 (298)	6.25 (159)	30.05 (763)	6.00 (152)	4	0.75 (19)	7.19 (183)	4.50 (114)
182TC	9.50 (241)	19.00 (483)	13.17 (334)	13.83 (351)	12.25 (311)	12.00 (305)	6.25 (159)	30.50 (775)	6.00 (152)	4	0.75 (19)	8.75 (222)	4.50 (114)
184TC	9.50 (241)	19.00 (483)	13.17 (334)	13.83 (351)	13.25 (337)	12.00 (305)	6.25 (159)	31.50 (800)	6.00 (152)	4	0.75 (19)	8.75 (222)	4.50 (114)
213TC	9.50 (241)	19.00 (483)	13.17 (334)	13.83 (351)	14.88 (378)	12.00 (305)	6.25 (159)	33.13 (841)	6.00 (152)	4	0.75 (19)	10.63 (270)	4.50 (114)
215TC	9.50 (241)	19.00 (483)	13.17 (334)	13.83 (351)	14.88 (378)	12.00 (305)	6.25 (159)	33.13 (841)	6.00 (152)	4	0.75 (19)	10.63 (270)	4.50 (114)
254TC	9.50 (241)	19.00 (483)	13.17 (334)	13.83 (351)	19.44 (494)	12.00 (305)	6.25 (159)	37.69 (957)	6.00 (152)	4	0.75 (19)	12.31 (313)	4.50 (114)
256TC	9.50 (241)	19.00 (483)	13.17 (334)	13.83 (351)	21.19 (538)	12.00 (305)	6.25 (159)	39.44 (1002)	6.00 (152)	4	0.75 (19)	12.31 (313)	4.50 (114)

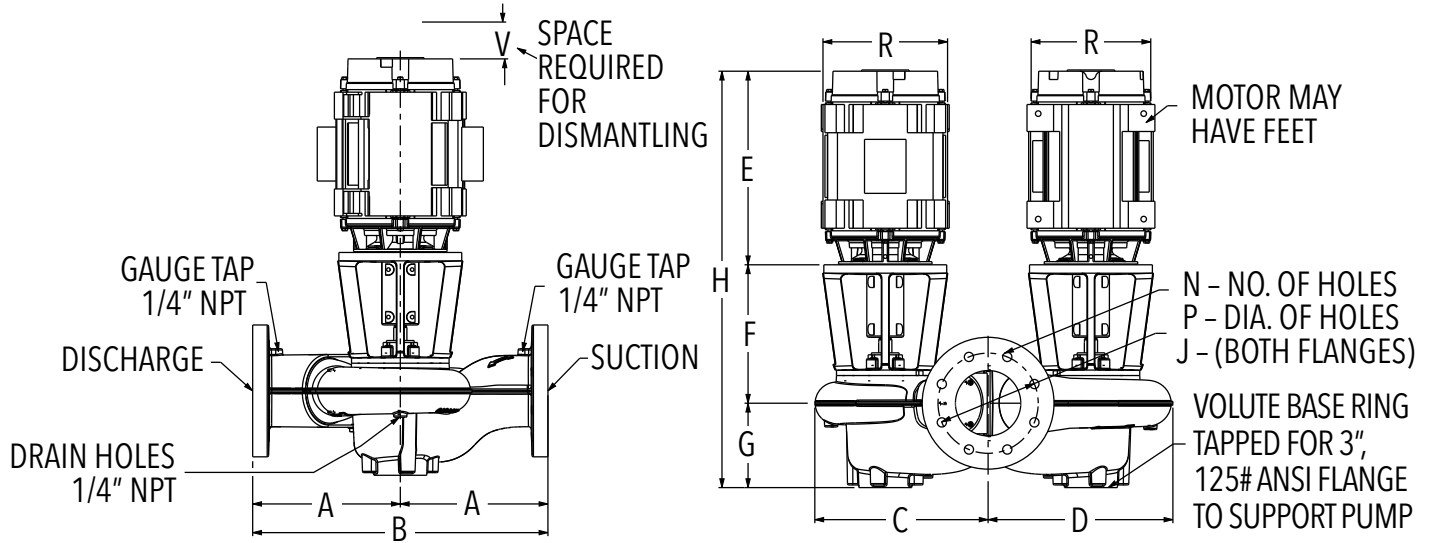
Dimensions are subject to change. Not to be used for construction purposes unless certified.
 NOTE: For TEFC add 1-1/2" to dimensions E & H.



e-82SC with Flange Support DIMENSIONS - inches (mm)							
MOTOR FRAME	HF BOLTING	HB	2HE BOLTING	HA	HH DIA	G	H (max)
143TC	20.95 (532)	24.45 (621)	21.50 (546)	25.00 (635)	0.88 (22)	7.75 (197)	31.55 (801)
145TC	20.95 (532)	24.45 (621)	21.50 (546)	25.00 (635)	0.88 (22)	7.75 (197)	31.55 (801)
182TC	20.95 (532)	24.45 (621)	21.50 (546)	25.00 (635)	0.88 (22)	7.75 (197)	32.00 (813)
184TC	20.95 (532)	24.45 (621)	21.50 (546)	25.00 (635)	0.88 (22)	7.75 (197)	33.00 (838)
213TC	20.95 (532)	24.45 (621)	21.50 (546)	25.00 (635)	0.88 (22)	7.75 (197)	34.63 (879)
215TC	20.95 (532)	24.45 (621)	21.50 (546)	25.00 (635)	0.88 (22)	7.75 (197)	34.63 (879)
254TC	20.95 (532)	24.45 (621)	21.50 (546)	25.00 (635)	0.88 (22)	7.75 (197)	39.19 (995)
256TC	20.95 (532)	24.45 (621)	21.50 (546)	25.00 (635)	0.88 (22)	7.75 (197)	40.94 (1040)

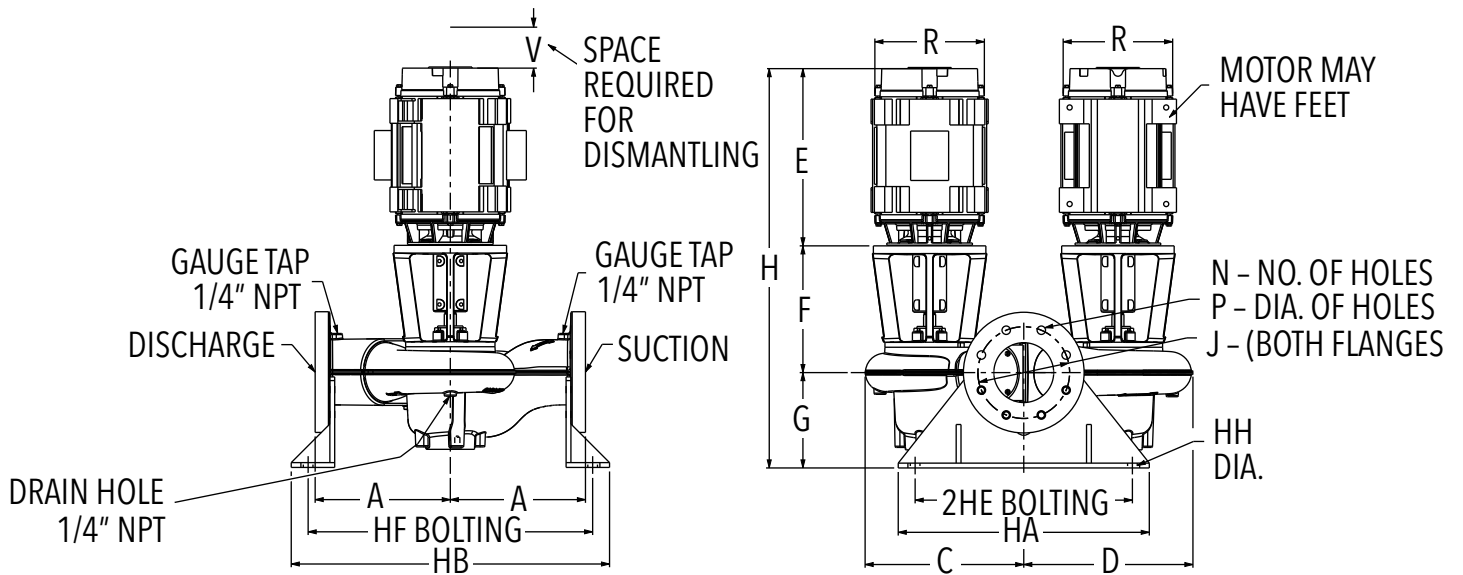
Dimensions are subject to change. Not to be used for construction purposes unless certified.
 NOTE: For TEFC add 1-1/2" to dimensions E & H.

e-82SC 3x3x9.5



e-82SC Standard Configuration DIMENSIONS - inches (mm)													
MOTOR FRAME	A	B	C	D	E (max)	F	G	H (max)	125# ANSI			R	V (min)
									J	N	P		
143TC	11.50 (292)	23.00 (584)	16.52 (420)	16.96 (431)	12.05 (306)	11.70 (297)	6.25 (159)	30.00 (762)	6.00 (152)	4	0.75 (19)	7.19 (183)	4.75 (121)
145TC	11.50 (292)	23.00 (584)	16.52 (420)	16.96 (431)	12.05 (306)	11.70 (297)	6.25 (159)	30.00 (762)	6.00 (152)	4	0.75 (19)	7.19 (183)	4.75 (121)
182TC	11.50 (292)	23.00 (584)	16.52 (420)	16.96 (431)	12.25 (311)	11.94 (303)	6.25 (159)	30.44 (773)	6.00 (152)	4	0.75 (19)	8.75 (222)	4.75 (121)
184TC	11.50 (292)	23.00 (584)	16.52 (420)	16.96 (431)	13.25 (337)	11.94 (303)	6.25 (159)	31.44 (799)	6.00 (152)	4	0.75 (19)	8.75 (222)	4.75 (121)
213TC	11.50 (292)	23.00 (584)	16.52 (420)	16.96 (431)	14.88 (378)	11.94 (303)	6.25 (159)	33.07 (840)	6.00 (152)	4	0.75 (19)	10.63 (270)	4.75 (121)
215TC	11.50 (292)	23.00 (584)	16.52 (420)	16.96 (431)	14.88 (378)	11.94 (303)	6.25 (159)	33.07 (840)	6.00 (152)	4	0.75 (19)	10.63 (270)	4.75 (121)

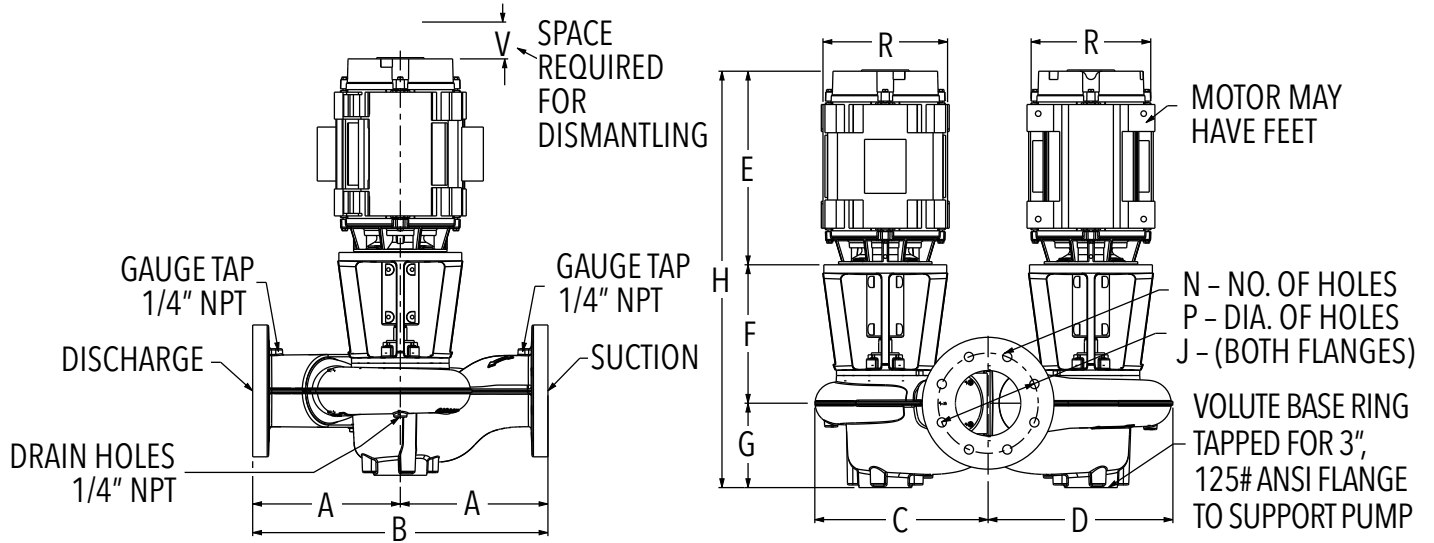
Dimensions are subject to change. Not to be used for construction purposes unless certified.
NOTE: For TEFC add 1-1/2" to dimensions E & H.



e-82SC with Flange Support DIMENSIONS - inches (mm)							
MOTOR FRAME	HF BOLTING	HB	2HE BOLTING	HA	HH DIA	G	H (max)
143TC	25.10 (638)	28.60 (726)	21.50 (546)	25.00 (635)	0.88 (22)	7.75 (197)	31.50 (800)
145TC	25.10 (638)	28.60 (726)	21.50 (546)	25.00 (635)	0.88 (22)	7.75 (197)	31.50 (800)
182TC	25.10 (638)	28.60 (726)	21.50 (546)	25.00 (635)	0.88 (22)	7.75 (197)	31.94 (811)
184TC	25.10 (638)	28.60 (726)	21.50 (546)	25.00 (635)	0.88 (22)	7.75 (197)	32.94 (837)
213TC	25.10 (638)	28.60 (726)	21.50 (546)	25.00 (635)	0.88 (22)	7.75 (197)	34.56 (878)
215TC	25.10 (638)	28.60 (726)	21.50 (546)	25.00 (635)	0.88 (22)	7.75 (197)	34.56 (878)

Dimensions are subject to change. Not to be used for construction purposes unless certified.
 NOTE: For TEFC add 1-1/2" to dimensions E & H.

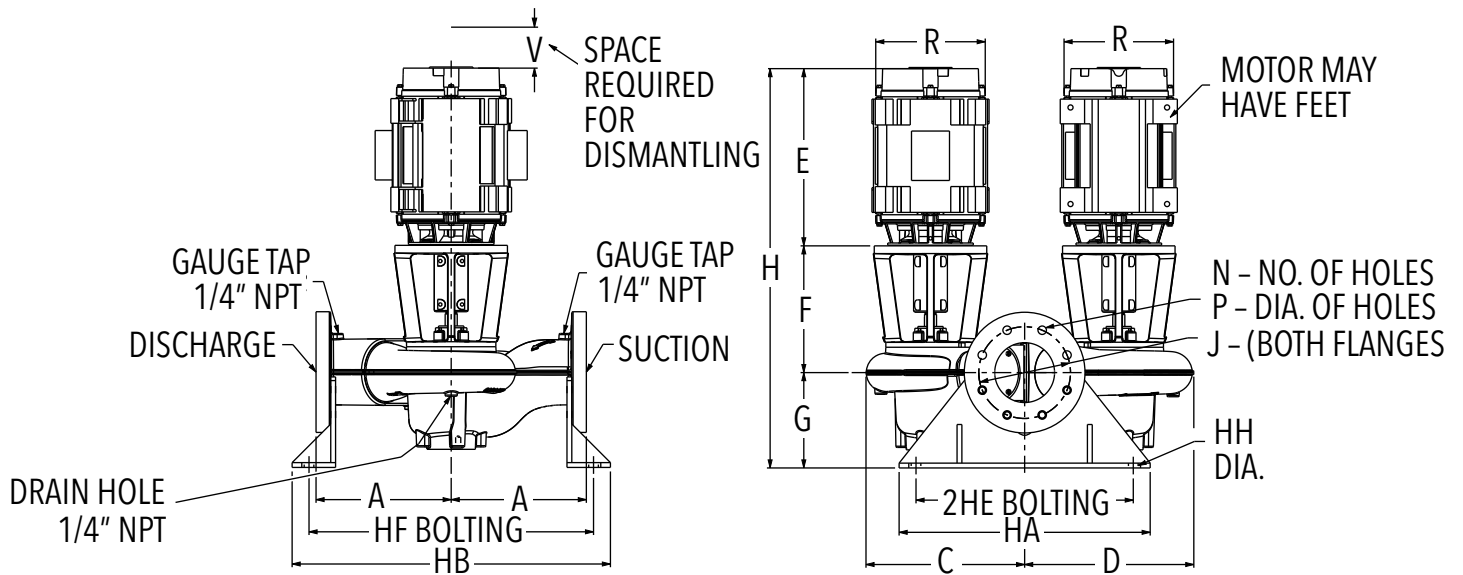
e-82SC 3x3x11



e-82SC Standard Configuration DIMENSIONS - inches (mm)													
MOTOR FRAME	A	B	C	D	E (max)	F	G	H (max)	125# ANSI			R	V (min)
									J	N	P		
213TC	12.00 (305)	24.00 (610)	16.75 (425)	16.84 (428)	14.88 (378)	11.25 (286)	6.75 (171)	32.88 (835)	6.00 (152)	4	0.75 (19)	10.63 (270)	5.50 (140)
215TC	12.00 (305)	24.00 (610)	16.75 (425)	16.84 (428)	14.88 (378)	11.25 (286)	6.75 (171)	32.88 (835)	6.00 (152)	4	0.75 (19)	10.63 (270)	5.50 (140)
254TC	12.00 (305)	24.00 (610)	16.75 (425)	16.84 (428)	19.44 (494)	11.25 (286)	6.75 (171)	37.44 (951)	6.00 (152)	4	0.75 (19)	12.31 (313)	5.50 (140)

Dimensions are subject to change. Not to be used for construction purposes unless certified.

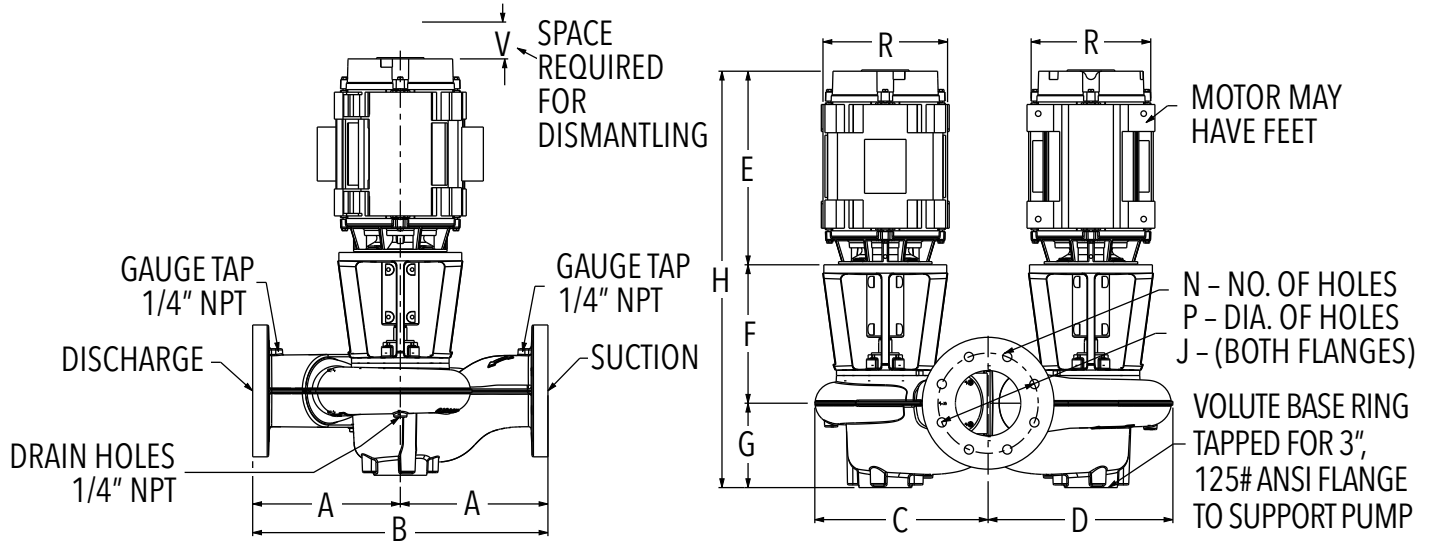
NOTE: For TEFC add 1-1/2" to dimensions E & H.



e-82SC with Flange Support DIMENSIONS - inches (mm)							
MOTOR FRAME	HF BOLTING	HB	2HE BOLTING	HA	HH DIA	G	H (max)
213TC	25.94 (659)	29.44 (748)	21.50 (546)	25.00 (635)	0.88 (22)	7.75 (197)	33.88 (860)
215TC	25.94 (659)	29.44 (748)	21.50 (546)	25.00 (635)	0.88 (22)	7.75 (197)	33.88 (860)
254TC	25.94 (659)	29.44 (748)	21.50 (546)	25.00 (635)	0.88 (22)	7.75 (197)	38.44 (976)

Dimensions are subject to change. Not to be used for construction purposes unless certified.
 NOTE: For TEFC add 1-1/2" to dimensions E & H.

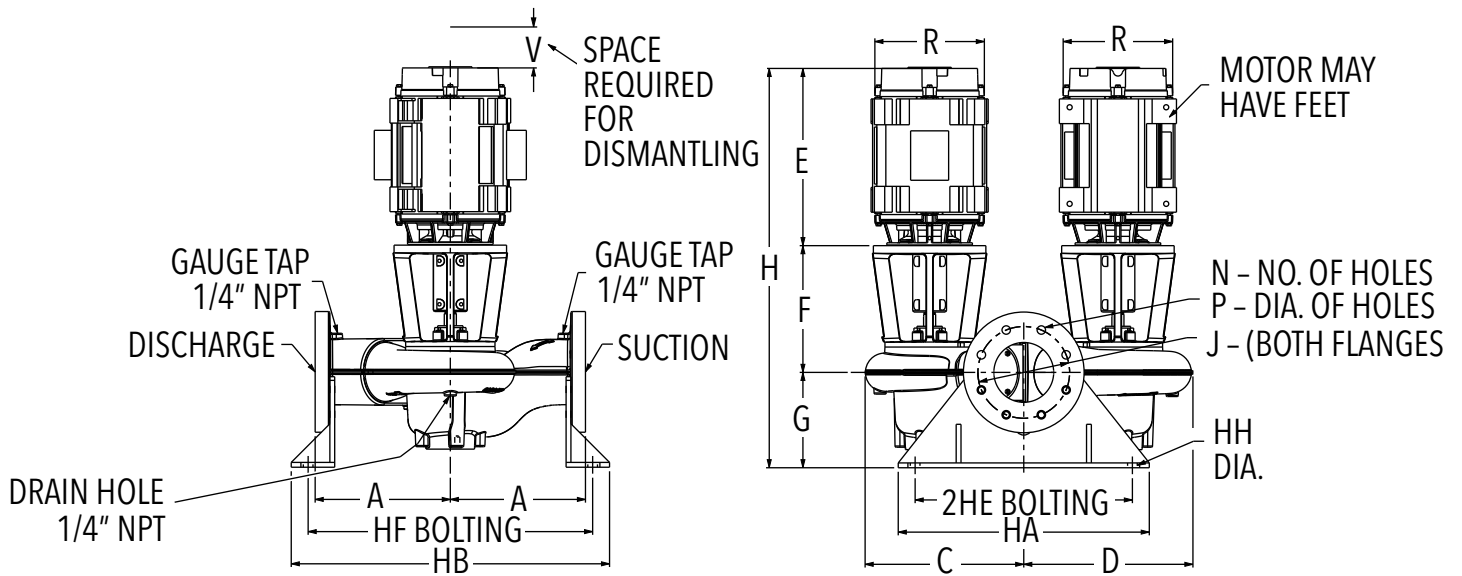
e-82SC 4x4x7



e-82SC Standard Configuration DIMENSIONS - inches (mm)													
MOTOR FRAME	A	B	C	D	E (max)	F	G	H (max)	125# ANSI			R	V (min)
									J	N	P		
143TC	10.50 (267)	21.00 (533)	14.53 (369)	15.12 (384)	12.05 (306)	11.80 (300)	6.91 (175)	30.76 (781)	7.50 (191)	8	0.75 (19)	7.19 (183)	4.75 (121)
145TC	10.50 (267)	21.00 (533)	14.53 (369)	15.12 (384)	12.05 (306)	11.80 (300)	6.91 (175)	30.76 (781)	7.50 (191)	8	0.75 (19)	7.19 (183)	4.75 (121)
182TC	10.50 (267)	21.00 (533)	14.53 (369)	15.12 (384)	12.25 (311)	12.19 (310)	6.91 (175)	31.35 (796)	7.50 (191)	8	0.75 (19)	8.75 (222)	4.75 (121)
184TC	10.50 (267)	21.00 (533)	14.53 (369)	15.12 (384)	13.25 (337)	12.19 (310)	6.91 (175)	32.35 (822)	7.50 (191)	8	0.75 (19)	8.75 (222)	4.75 (121)
256TC	10.50 (267)	21.00 (533)	14.53 (369)	15.12 (384)	21.19 (538)	12.25 (311)	6.91 (175)	40.35 (1025)	7.50 (191)	8	0.75 (19)	12.31 (313)	5.00 (127)
284TSC	10.50 (267)	21.00 (533)	14.53 (369)	15.12 (384)	22.06 (560)	14.87 (378)	6.91 (175)	43.84 (1113)	7.50 (191)	8	0.75 (19)	14.13 (359)	6.00 (152)
286TSC	10.50 (267)	21.00 (533)	14.53 (369)	15.12 (384)	23.56 (598)	14.87 (378)	6.91 (175)	45.34 (1152)	7.50 (191)	8	0.75 (19)	14.13 (359)	6.00 (152)
324TSC	10.50 (267)	21.00 (533)	14.53 (369)	15.12 (384)	24.63 (626)	14.87 (378)	6.91 (175)	46.41 (1179)	7.50 (191)	8	0.75 (19)	15.56 (395)	6.00 (152)

Dimensions are subject to change. Not to be used for construction purposes unless certified.

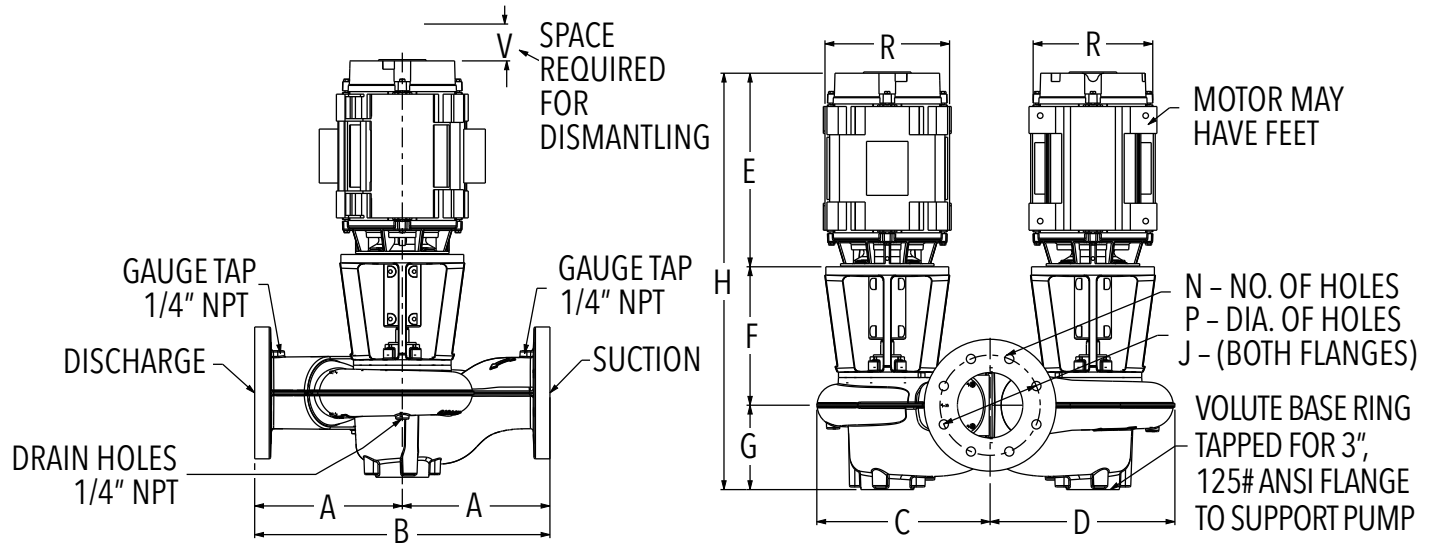
NOTE: For TEFC add 1-1/2" to dimensions E & H.



e-82SC with Flange Support DIMENSIONS - inches (mm)							
MOTOR FRAME	HF BOLTING	HB	2HE BOLTING	HA	HH DIA	G	H (max)
143TC	22.66 (576)	26.16 (664)	21.50 (546)	25.00 (635)	0.88 (22)	9.02 (229)	32.87 (835)
145TC	22.66 (576)	26.16 (664)	21.50 (546)	25.00 (635)	0.88 (22)	9.02 (229)	32.87 (835)
182TC	22.66 (576)	26.16 (664)	21.50 (546)	25.00 (635)	0.88 (22)	9.02 (229)	33.46 (850)
184TC	22.66 (576)	26.16 (664)	21.50 (546)	25.00 (635)	0.88 (22)	9.02 (229)	34.46 (875)
256TC	22.66 (576)	26.16 (664)	21.50 (546)	25.00 (635)	0.88 (22)	9.02 (229)	42.46 (1078)
284TSC	22.66 (576)	26.16 (664)	21.50 (546)	25.00 (635)	0.88 (22)	9.02 (229)	45.95 (1167)
286TSC	22.66 (576)	26.16 (664)	21.50 (546)	25.00 (635)	0.88 (22)	9.02 (229)	47.45 (1205)
324TSC	22.66 (576)	26.16 (664)	21.50 (546)	25.00 (635)	0.88 (22)	9.02 (229)	48.52 (1232)

Dimensions are subject to change. Not to be used for construction purposes unless certified.
 NOTE: For TEFC add 1-1/2" to dimensions E & H.

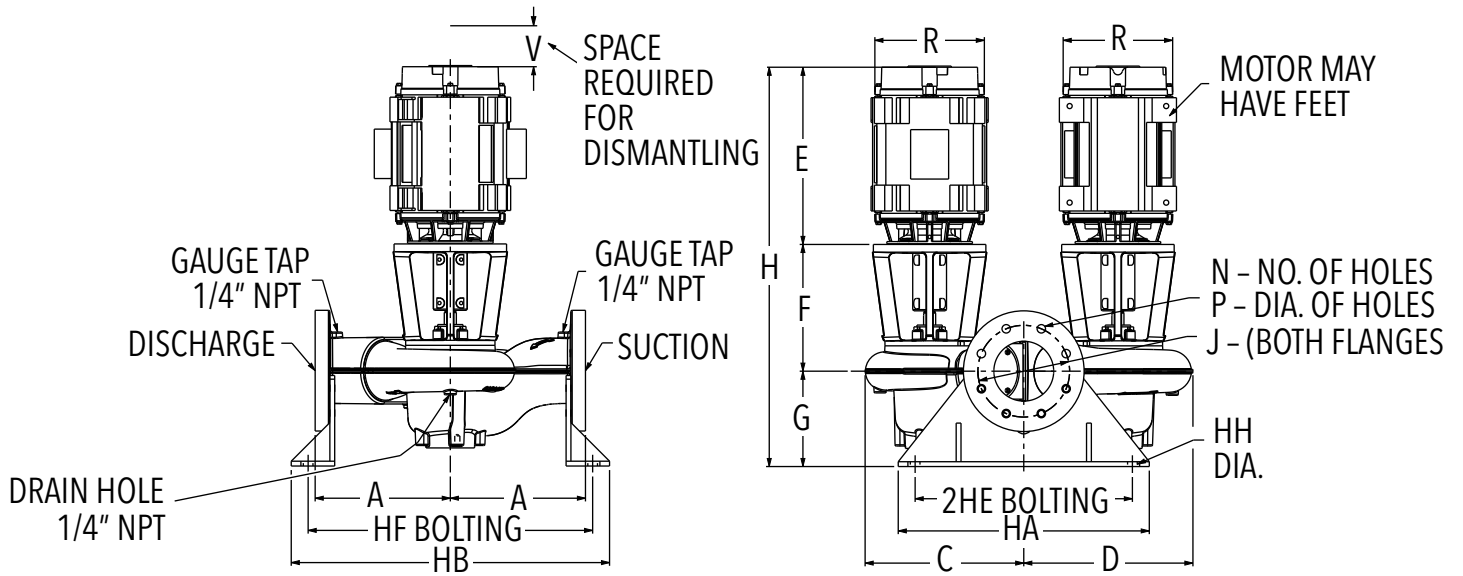
e-82SC 4x4x9.5



e-82SC Standard Configuration DIMENSIONS - inches (mm)													
MOTOR FRAME	A	B	C	D	E (max)	F	G	H (max)	125# ANSI			R	V (min)
									J	N	P		
182TC	12.50 (318)	25.00 (635)	15.41 (392)	16.23 (412)	12.25 (311)	12.75 (324)	7.31 (186)	32.31 (821)	7.50 (191)	8	0.75 (19)	8.75 (222)	5.00 (127)
184TC	12.50 (318)	25.00 (635)	15.41 (392)	16.23 (412)	13.25 (337)	12.75 (324)	7.31 (186)	33.31 (846)	7.50 (191)	8	0.75 (19)	8.75 (222)	5.00 (127)
213TC	12.50 (318)	25.00 (635)	15.41 (392)	16.23 (412)	14.88 (378)	12.75 (324)	7.31 (186)	34.94 (888)	7.50 (191)	8	0.75 (19)	10.63 (270)	5.00 (127)
215TC	12.50 (318)	25.00 (635)	15.41 (392)	16.23 (412)	14.88 (378)	12.75 (324)	7.31 (186)	34.94 (888)	7.50 (191)	8	0.75 (19)	10.63 (270)	5.00 (127)
254TC	12.50 (318)	25.00 (635)	15.41 (392)	16.23 (412)	19.44 (494)	12.75 (324)	7.31 (186)	39.50 (1003)	7.50 (191)	8	0.75 (19)	12.31 (313)	5.00 (127)

Dimensions are subject to change. Not to be used for construction purposes unless certified.

NOTE: For TEFC add 1-1/2" to dimensions E & H.

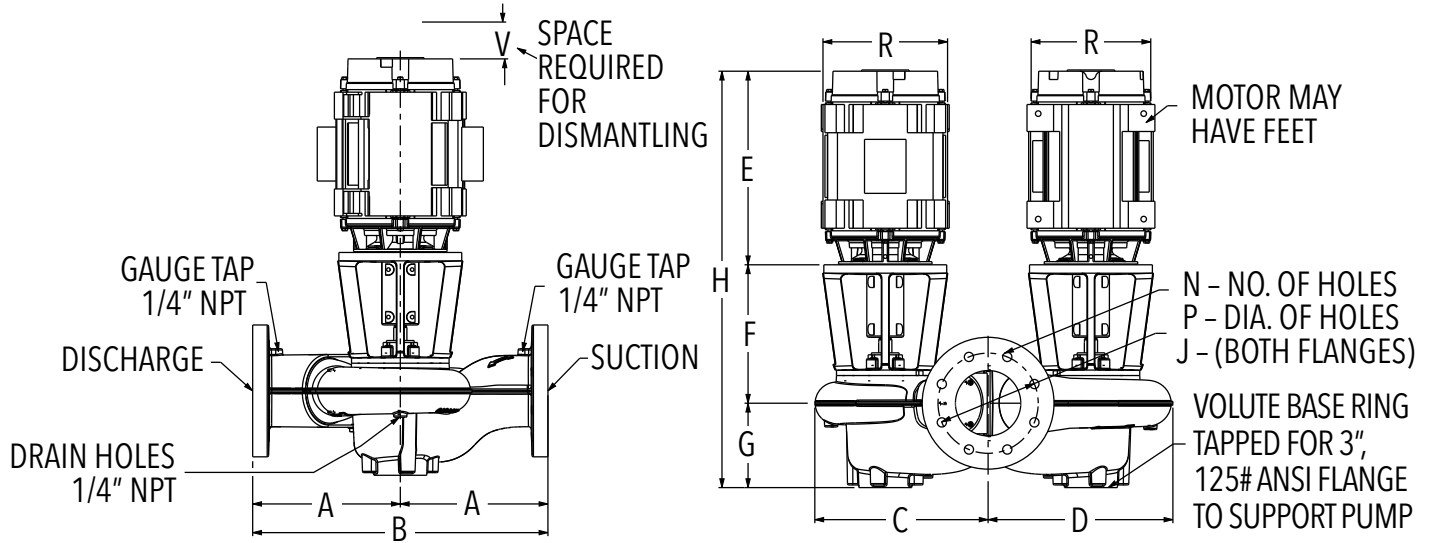


e-82SC with Flange Support DIMENSIONS - inches (mm)							
MOTOR FRAME	HF BOLTING	HB	2HE BOLTING	HA	HH DIA	G	H (max)
182TC	26.66 (677)	30.16 (766)	21.50 (546)	25.00 (635)	0.88 (22)	9.02 (229)	34.02 (864)
184TC	26.66 (677)	30.16 (766)	21.50 (546)	25.00 (635)	0.88 (22)	9.02 (229)	35.02 (890)
213TC	26.66 (677)	30.16 (766)	21.50 (546)	25.00 (635)	0.88 (22)	9.02 (229)	36.65 (931)
215TC	26.66 (677)	30.16 (766)	21.50 (546)	25.00 (635)	0.88 (22)	9.02 (229)	36.65 (931)
254TC	26.66 (677)	30.16 (766)	21.50 (546)	25.00 (635)	0.88 (22)	9.02 (229)	41.21 (1047)

Dimensions are subject to change. Not to be used for construction purposes unless certified.

NOTE: For TEFC add 1-1/2" to dimensions E & H.

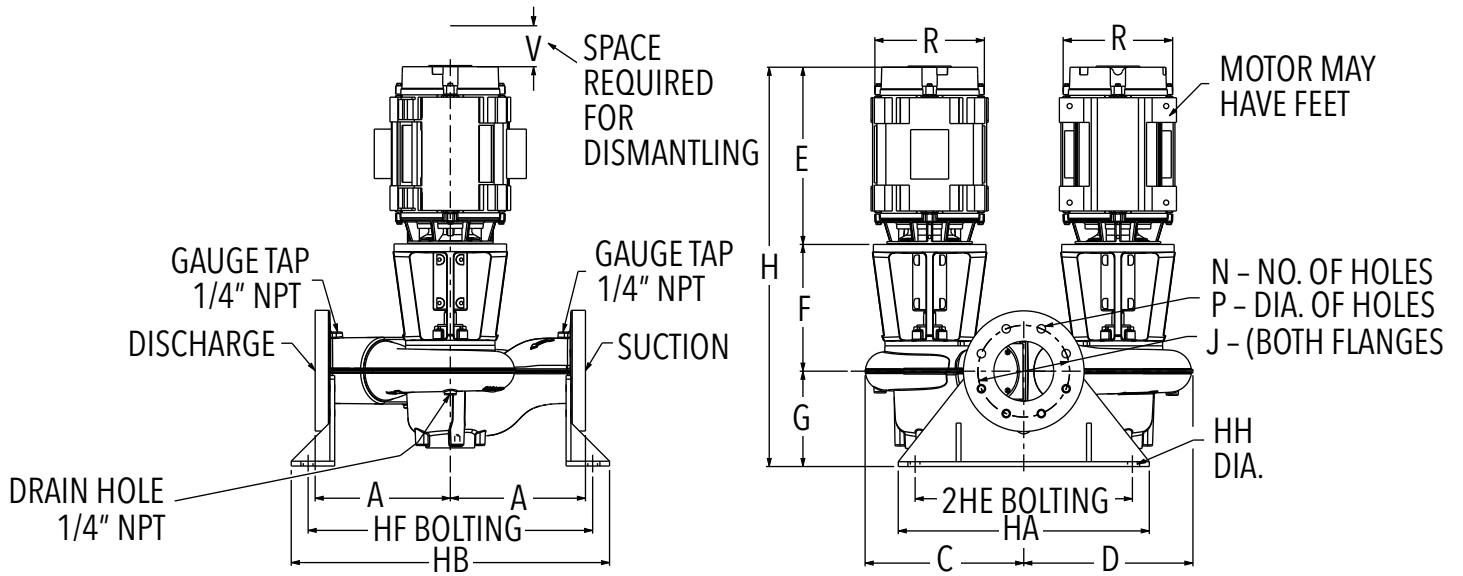
e-82SC 4x4x11



e-82SC Standard Configuration DIMENSIONS - inches (mm)													
MOTOR FRAME	A	B	C	D	E (max)	F	G	H (max)	125# ANSI			R	V (min)
									J	N	P		
213TC	13.00 (330)	26.00 (660)	15.88 (403)	16.55 (420)	14.88 (378)	11.44 (291)	7.50 (191)	33.82 (859)	7.50 (191)	8	0.75 (19)	8.75 (222)	5.75 (146)
215TC	13.00 (330)	26.00 (660)	15.88 (403)	16.55 (420)	14.88 (378)	11.44 (291)	7.50 (191)	33.82 (859)	7.50 (191)	8	0.75 (19)	8.75 (222)	5.75 (146)
254TC	13.00 (330)	26.00 (660)	15.88 (403)	16.55 (420)	19.44 (494)	11.44 (291)	7.50 (191)	38.38 (975)	7.50 (191)	8	0.75 (19)	10.63 (270)	5.75 (146)
256TC	13.00 (330)	26.00 (660)	15.88 (403)	16.55 (420)	21.19 (538)	11.44 (291)	7.50 (191)	40.13 (1019)	7.50 (191)	8	0.75 (19)	10.63 (270)	5.75 (146)
284TC	13.00 (330)	26.00 (660)	15.88 (403)	16.55 (420)	22.06 (560)	13.50 (343)	7.50 (191)	43.06 (1094)	7.50 (191)	8	0.75 (19)	12.31 (313)	5.75 (146)

Dimensions are subject to change. Not to be used for construction purposes unless certified.

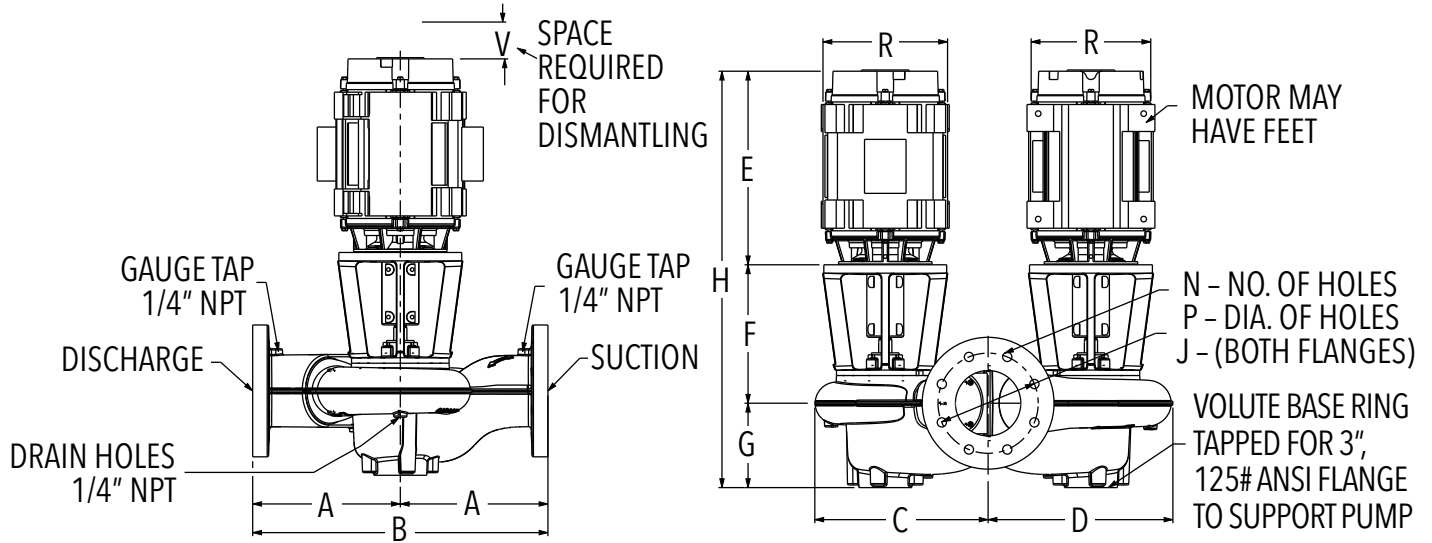
NOTE: For TEFC add 1-1/2" to dimensions E & H.



e-82SC with Flange Support DIMENSIONS - inches (mm)							
MOTOR FRAME	HF BOLTING	HB	2HE BOLTING	HA	HH DIA	G	H (max)
213TC	27.66 (703)	31.16 (791)	21.50 (546)	25.00 (635)	0.88 (22)	9.02 (229)	35.33 (897)
215TC	27.66 (703)	31.16 (791)	21.50 (546)	25.00 (635)	0.88 (22)	9.02 (229)	35.33 (897)
254TC	27.66 (703)	31.16 (791)	21.50 (546)	25.00 (635)	0.88 (22)	9.02 (229)	39.90 (1013)
256TC	27.66 (703)	31.16 (791)	21.50 (546)	25.00 (635)	0.88 (22)	9.02 (229)	41.65 (1058)
284TC	27.66 (703)	31.16 (791)	21.50 (546)	25.00 (635)	0.88 (22)	9.02 (229)	44.58 (1132)

Dimensions are subject to change. Not to be used for construction purposes unless certified.
 NOTE: For TEFC add 1-1/2" to dimensions E & H.

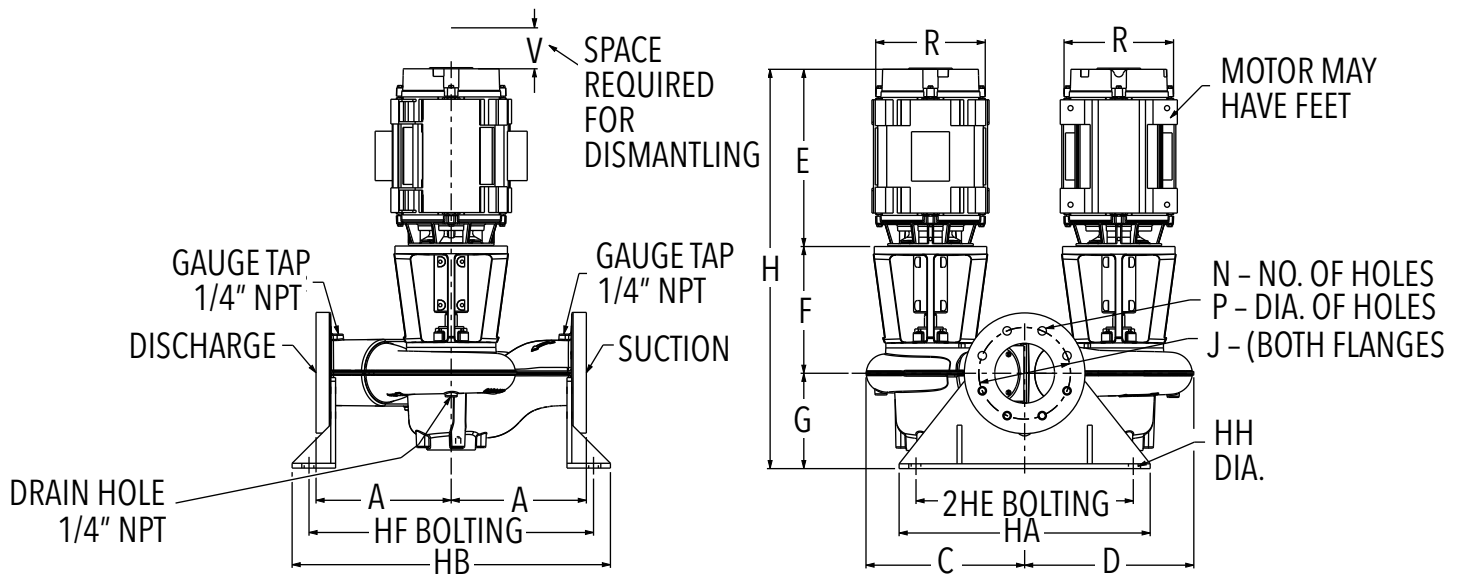
e-82SC 6x6x7



e-82SC Standard Configuration DIMENSIONS - inches (mm)													
MOTOR FRAME	A	B	C	D	E (max)	F	G	H (max)	125# ANSI			R	V (min)
									J	N	P		
143TC	14.00 (356)	28.00 (711)	16.50 (419)	17.47 (444)	12.05 (306)	12.71 (323)	8.00 (203)	32.76 (832)	9.50 (241)	8	0.88 (22)	7.19 (183)	5.25 (133)
145TC	14.00 (356)	28.00 (711)	16.50 (419)	17.47 (444)	12.05 (306)	12.71 (323)	8.00 (203)	32.76 (832)	9.50 (241)	8	0.88 (22)	7.19 (183)	5.25 (133)
182TC	14.00 (356)	28.00 (711)	16.50 (419)	17.47 (444)	12.25 (311)	12.94 (329)	8.00 (203)	33.19 (843)	9.50 (241)	8	0.88 (22)	8.75 (222)	5.25 (133)
184TC	14.00 (356)	28.00 (711)	16.50 (419)	17.47 (444)	13.25 (337)	12.94 (329)	8.00 (203)	34.19 (868)	9.50 (241)	8	0.88 (22)	8.75 (222)	5.25 (133)
213TC	14.00 (356)	28.00 (711)	16.50 (419)	17.47 (444)	14.88 (378)	12.94 (329)	8.00 (203)	35.82 (910)	9.50 (241)	8	0.88 (22)	10.63 (270)	5.25 (133)
215TC	14.00 (356)	28.00 (711)	16.50 (419)	17.47 (444)	14.88 (378)	12.94 (329)	8.00 (203)	35.82 (910)	9.50 (241)	8	0.88 (22)	10.63 (270)	5.25 (133)
286TSC	14.00 (356)	28.00 (711)	16.50 (419)	17.47 (444)	23.56 (598)	15.67 (398)	8.00 (203)	47.23 (1200)	9.50 (241)	8	0.88 (22)	14.13 (359)	6.00 (152)
324TSC	14.00 (356)	28.00 (711)	16.50 (419)	17.47 (444)	24.63 (626)	15.67 (398)	8.00 (203)	48.30 (1227)	9.50 (241)	8	0.88 (22)	15.56 (395)	6.00 (152)
326TSC	14.00 (356)	28.00 (711)	16.50 (419)	17.47 (444)	26.13 (664)	15.67 (398)	8.00 (203)	49.80 (1265)	9.50 (241)	8	0.88 (22)	15.56 (395)	6.00 (152)
364TSC	14.00 (356)	28.00 (711)	16.50 (419)	17.47 (444)	28.06 (713)	15.67 (398)	8.00 (203)	51.73 (1314)	9.50 (241)	8	0.88 (22)	18.75 (476)	6.00 (152)
365TSC	14.00 (356)	28.00 (711)	16.50 (419)	17.47 (444)	28.06 (713)	15.67 (398)	8.00 (203)	51.73 (1314)	9.50 (241)	8	0.88 (22)	18.75 (476)	6.00 (152)

Dimensions are subject to change. Not to be used for construction purposes unless certified.

NOTE: For TEFC add 1-1/2" to dimensions E & H.

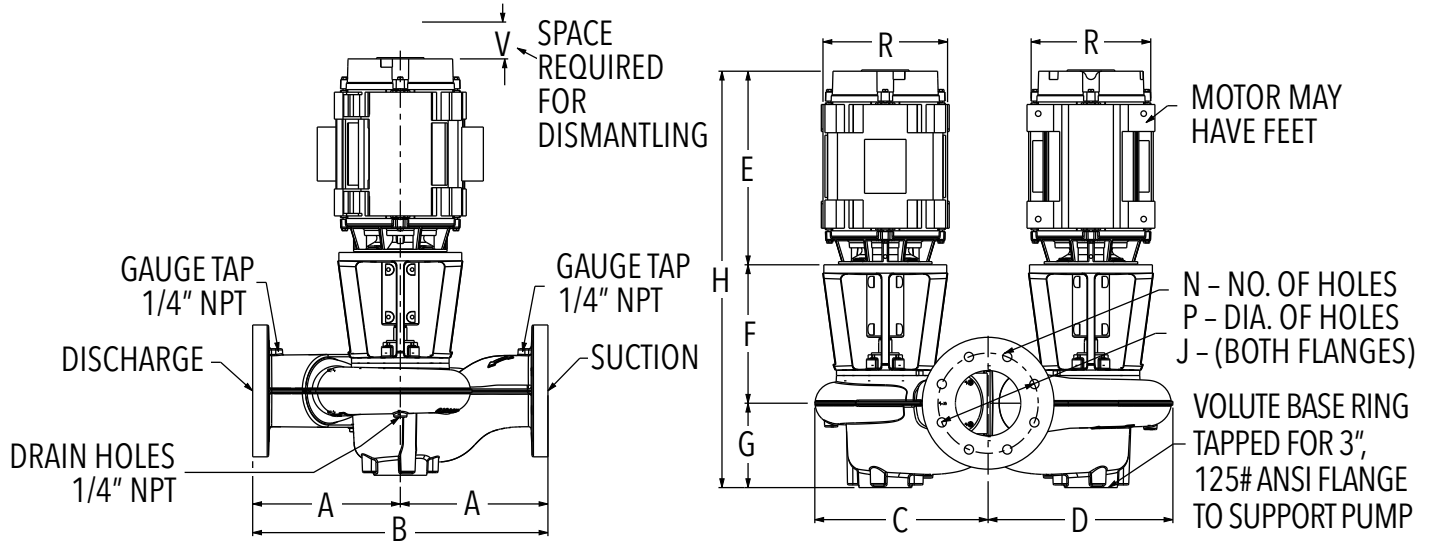


e-82SC with Flange Support DIMENSIONS - inches (mm)							
MOTOR FRAME	HF BOLTING	HB	2HE BOLTING	HA	HH DIA	G	H (max)
143TC	29.50 (749)	33.00 (838)	22.50 (572)	26.00 (660)	1.00 (25)	9.88 (251)	34.63 (880)
145TC	29.50 (749)	33.00 (838)	22.50 (572)	26.00 (660)	1.00 (25)	9.88 (251)	34.63 (880)
182TC	29.50 (749)	33.00 (838)	22.50 (572)	26.00 (660)	1.00 (25)	9.88 (251)	35.06 (891)
184TC	29.50 (749)	33.00 (838)	22.50 (572)	26.00 (660)	1.00 (25)	9.88 (251)	36.06 (916)
213TC	29.50 (749)	33.00 (838)	22.50 (572)	26.00 (660)	1.00 (25)	9.88 (251)	37.69 (957)
215TC	29.50 (749)	33.00 (838)	22.50 (572)	26.00 (660)	1.00 (25)	9.88 (251)	37.69 (957)
286TSC	29.50 (749)	33.00 (838)	22.50 (572)	26.00 (660)	1.00 (25)	9.88 (251)	49.10 (1247)
324TSC	29.50 (749)	33.00 (838)	22.50 (572)	26.00 (660)	1.00 (25)	9.88 (251)	50.17 (1274)
326TSC	29.50 (749)	33.00 (838)	22.50 (572)	26.00 (660)	1.00 (25)	9.88 (251)	51.67 (1312)
364TSC	29.50 (749)	33.00 (838)	22.50 (572)	26.00 (660)	1.00 (25)	9.88 (251)	53.60 (1362)
365TSC	29.50 (749)	33.00 (838)	22.50 (572)	26.00 (660)	1.00 (25)	9.88 (251)	53.60 (1362)

Dimensions are subject to change. Not to be used for construction purposes unless certified.

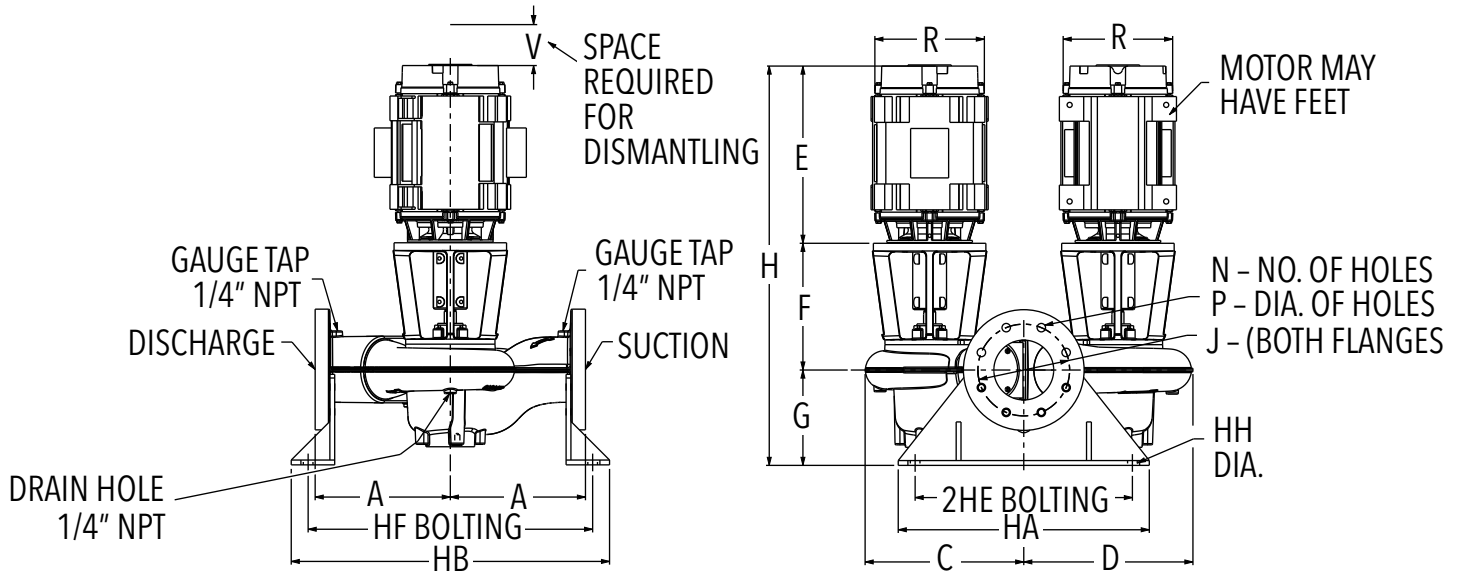
NOTE: For TEFC add 1-1/2" to dimensions E & H.

e-82SC 6x6x9.5



e-82SC Standard Configuration DIMENSIONS - inches (mm)													
MOTOR FRAME	A	B	C	D	E (max)	F	G	H (max)	125# ANSI			R	V (min)
									J	N	P		
213TC	16.75 (425)	33.50 (851)	20.82 (529)	22.83 (580)	14.88 (378)	12.56 (319)	9.29 (236)	36.73 (933)	9.50 (241)	8	0.88 (22)	10.63 (270)	5.50 (140)
215TC	16.75 (425)	33.50 (851)	20.82 (529)	22.83 (580)	14.88 (378)	12.56 (319)	9.29 (236)	36.73 (933)	9.50 (241)	8	0.88 (22)	10.63 (270)	5.50 (140)
254TC	16.75 (425)	33.50 (851)	20.82 (529)	22.83 (580)	19.44 (494)	12.56 (319)	9.29 (236)	41.29 (1049)	9.50 (241)	8	0.88 (22)	12.31 (313)	5.50 (140)
256TC	16.75 (425)	33.50 (851)	20.82 (529)	22.83 (580)	21.19 (538)	12.56 (319)	9.29 (236)	43.04 (1093)	9.50 (241)	8	0.88 (22)	12.31 (313)	5.50 (140)
284TC	16.75 (425)	33.50 (851)	20.82 (529)	22.83 (580)	22.06 (560)	15.13 (384)	9.29 (236)	46.48 (1180)	9.50 (241)	8	0.88 (22)	14.13 (359)	5.50 (140)
286TC	16.75 (425)	33.50 (851)	20.82 (529)	22.83 (580)	23.56 (598)	15.13 (384)	9.29 (236)	47.98 (1219)	9.50 (241)	8	0.88 (22)	14.13 (359)	5.50 (140)

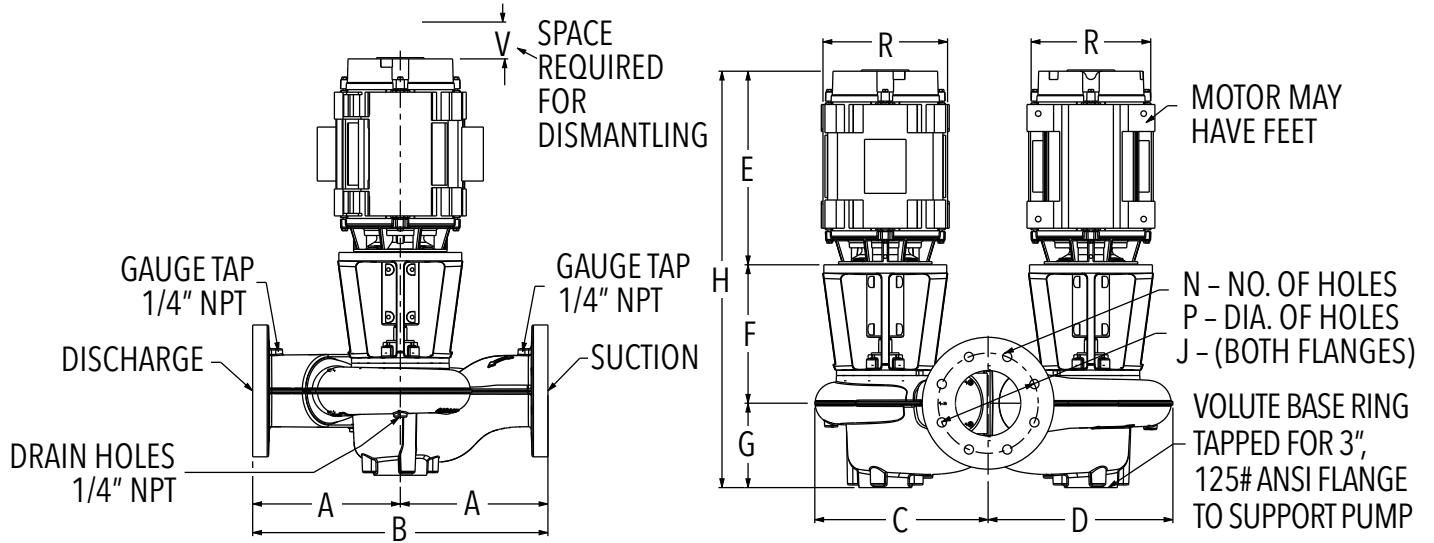
Dimensions are subject to change. Not to be used for construction purposes unless certified.
NOTE: For TEFC add 1-1/2" to dimensions E & H.



e-82SC with Flange Support DIMENSIONS - inches (mm)							
MOTOR FRAME	HF BOLTING	HB	2HE BOLTING	HA	HH DIA	G	H (max)
213TC	34.78 (883)	38.28 (972)	22.50 (572)	26.00 (660)	1.00 (25)	9.88 (251)	37.31 (948)
215TC	34.78 (883)	38.28 (972)	22.50 (572)	26.00 (660)	1.00 (25)	9.88 (251)	37.31 (948)
254TC	34.78 (883)	38.28 (972)	22.50 (572)	26.00 (660)	1.00 (25)	9.88 (251)	41.88 (1064)
256TC	34.78 (883)	38.28 (972)	22.50 (572)	26.00 (660)	1.00 (25)	9.88 (251)	43.63 (1108)
284TC	34.78 (883)	38.28 (972)	22.50 (572)	26.00 (660)	1.00 (25)	9.88 (251)	47.06 (1195)
286TC	34.78 (883)	38.28 (972)	22.50 (572)	26.00 (660)	1.00 (25)	9.88 (251)	48.56 (1233)

Dimensions are subject to change. Not to be used for construction purposes unless certified.
 NOTE: For TEFC add 1-1/2" to dimensions E & H.

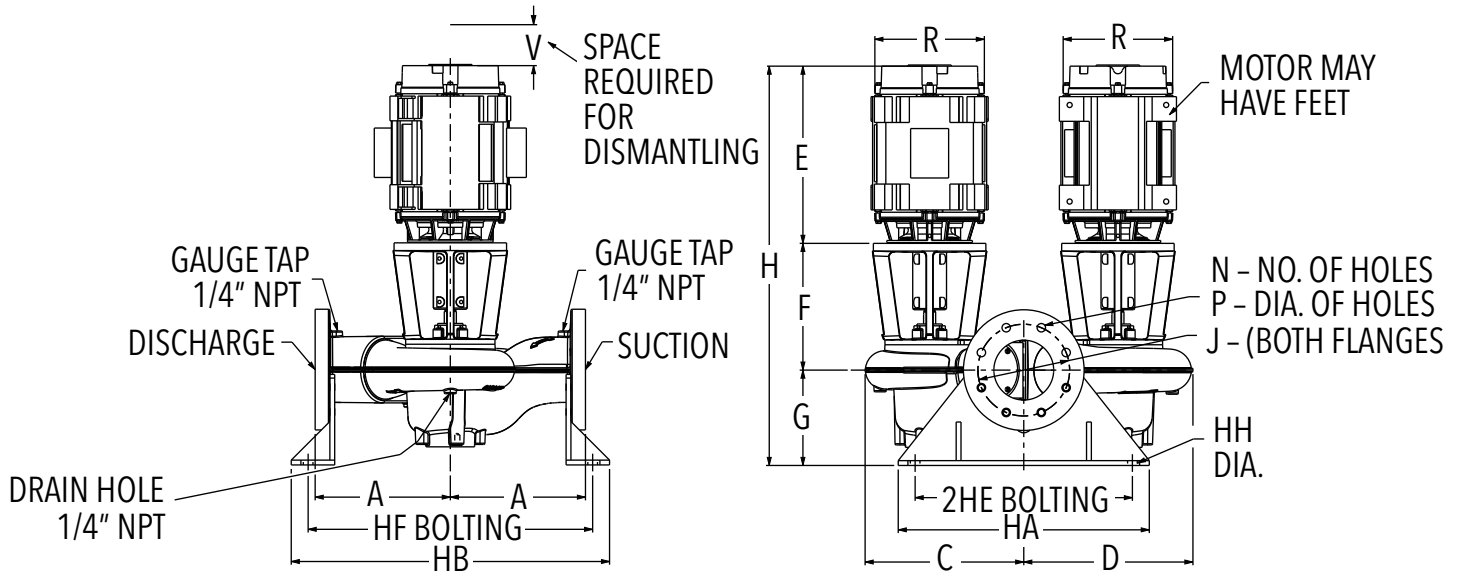
e-82SC 6x6x11



e-82SC Standard Configuration DIMENSIONS - inches (mm)													
MOTOR FRAME	A	B	C	D	E (max)	F	G	H (max)	125# ANSI			R	V (min)
									J	N	P		
284TC	16.00 (406)	32.00 (813)	21.29 (541)	22.83 (580)	22.06 (560)	13.63 (346)	9.25 (235)	44.94 (1141)	9.50 (241)	8	0.88 (22)	14.13 (359)	6.00 (152)
286TC	16.00 (406)	32.00 (813)	21.29 (541)	22.83 (580)	23.56 (598)	13.63 (346)	9.25 (235)	46.44 (1180)	9.50 (241)	8	0.88 (22)	14.13 (359)	6.00 (152)
324TSC	16.00 (406)	32.00 (813)	21.29 (541)	22.83 (580)	24.63 (626)	13.63 (346)	9.25 (235)	47.51 (1207)	9.50 (241)	8	0.88 (22)	15.56 (395)	6.00 (152)

Dimensions are subject to change. Not to be used for construction purposes unless certified.

NOTE: For TEFC add 1-1/2" to dimensions E & H.

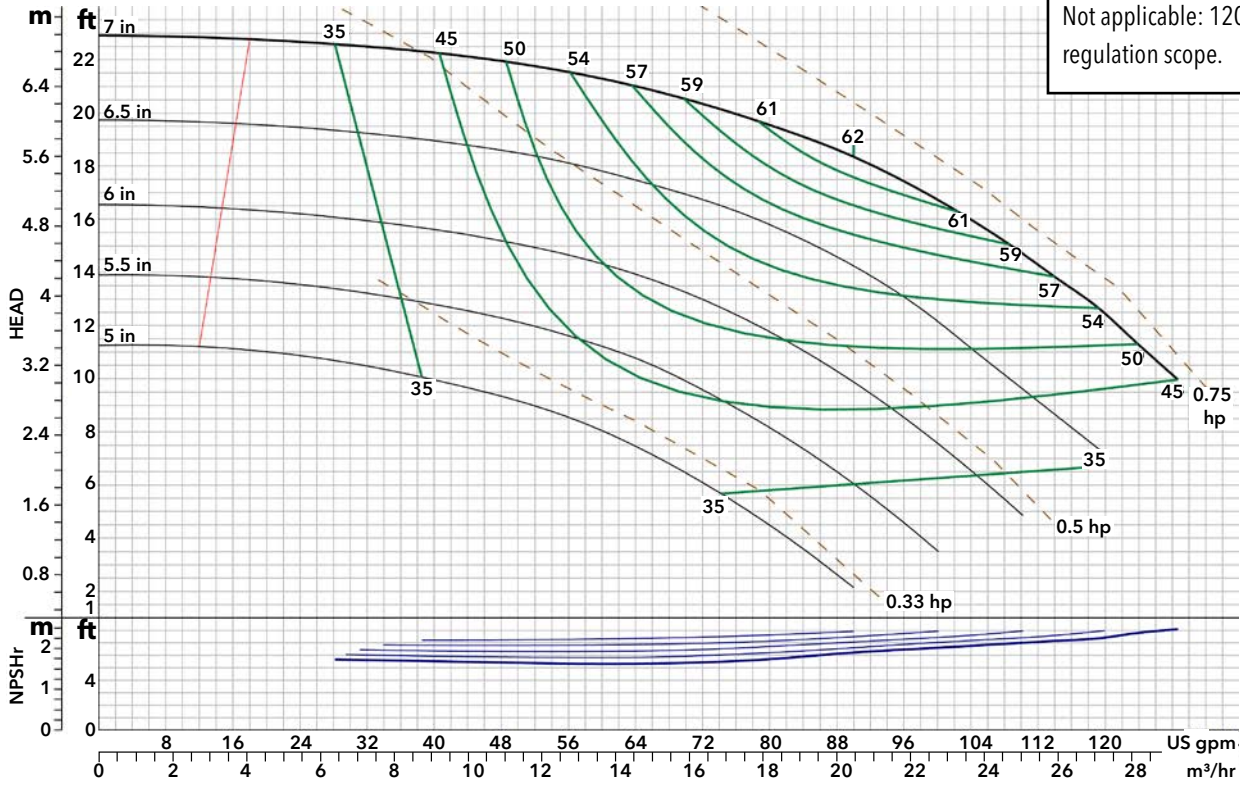


e-82SC with Flange Support DIMENSIONS - inches (mm)							
MOTOR FRAME	HF BOLTING	HB	2HE BOLTING	HA	HH DIA	G	H (max)
284TC	33.38 (848)	36.88 (937)	22.50 (572)	26.00 (660)	1.00 (25)	9.88 (251)	45.56 (1157)
286TC	33.38 (848)	36.88 (937)	22.50 (572)	26.00 (660)	1.00 (25)	9.88 (251)	47.06 (1195)
324TSC	33.38 (848)	36.88 (937)	22.50 (572)	26.00 (660)	1.00 (25)	9.88 (251)	48.13 (1222)

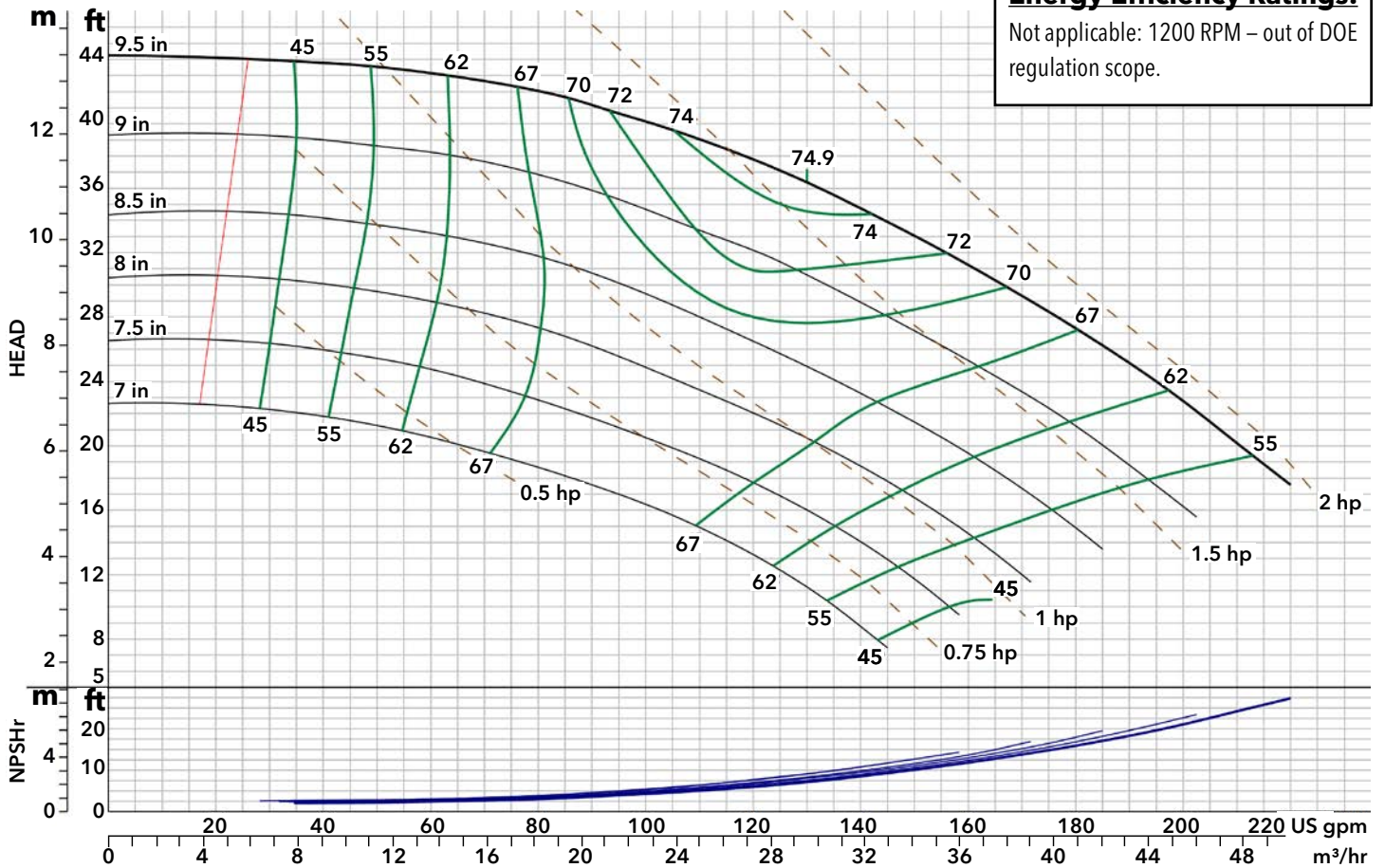
Dimensions are subject to change. Not to be used for construction purposes unless certified.
 NOTE: For TEFC add 1-1/2" to dimensions E & H.

6 Pole Performance Data

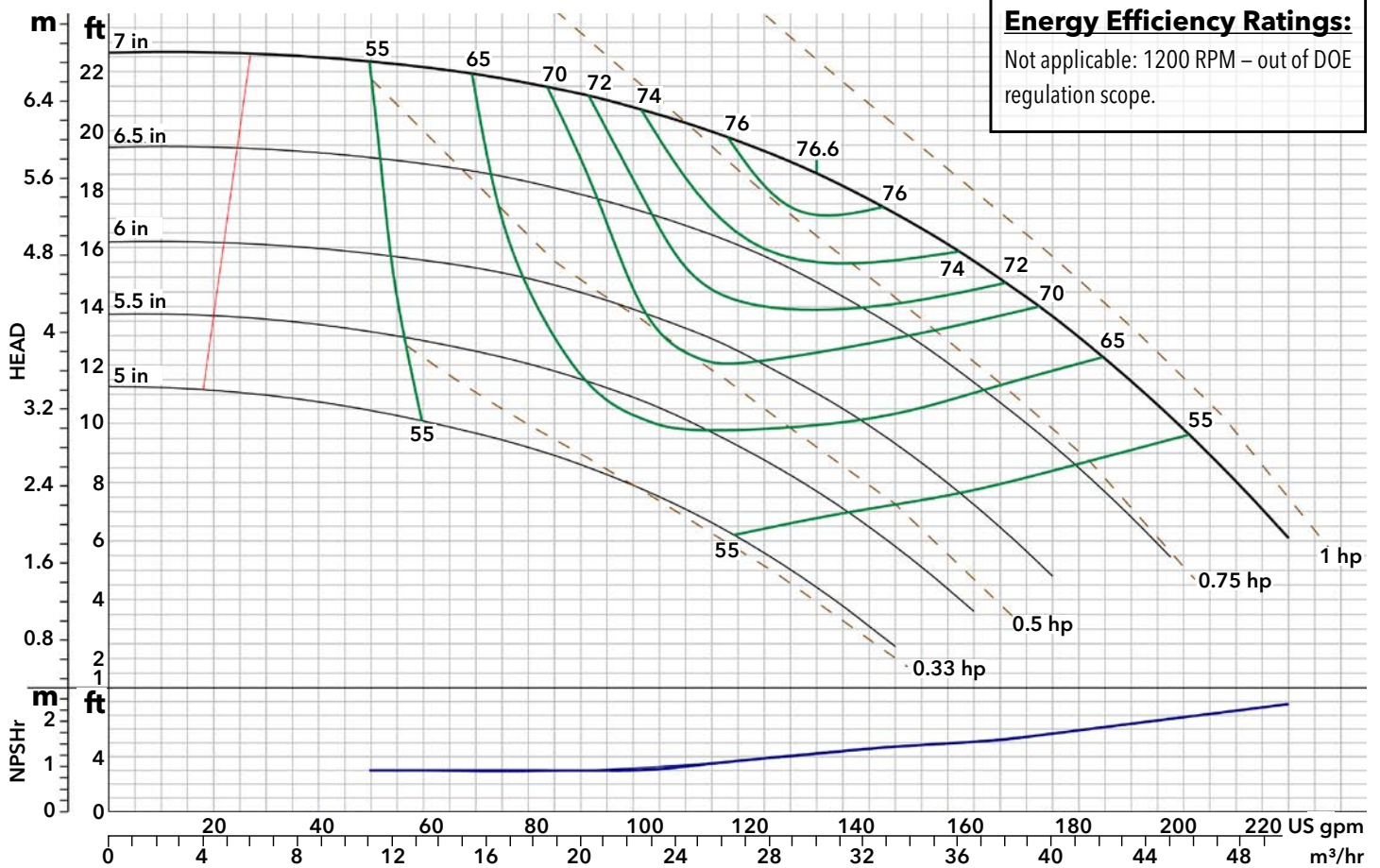
e-82SC 2.5x2.5x7 Standby Operation (1150 RPM)



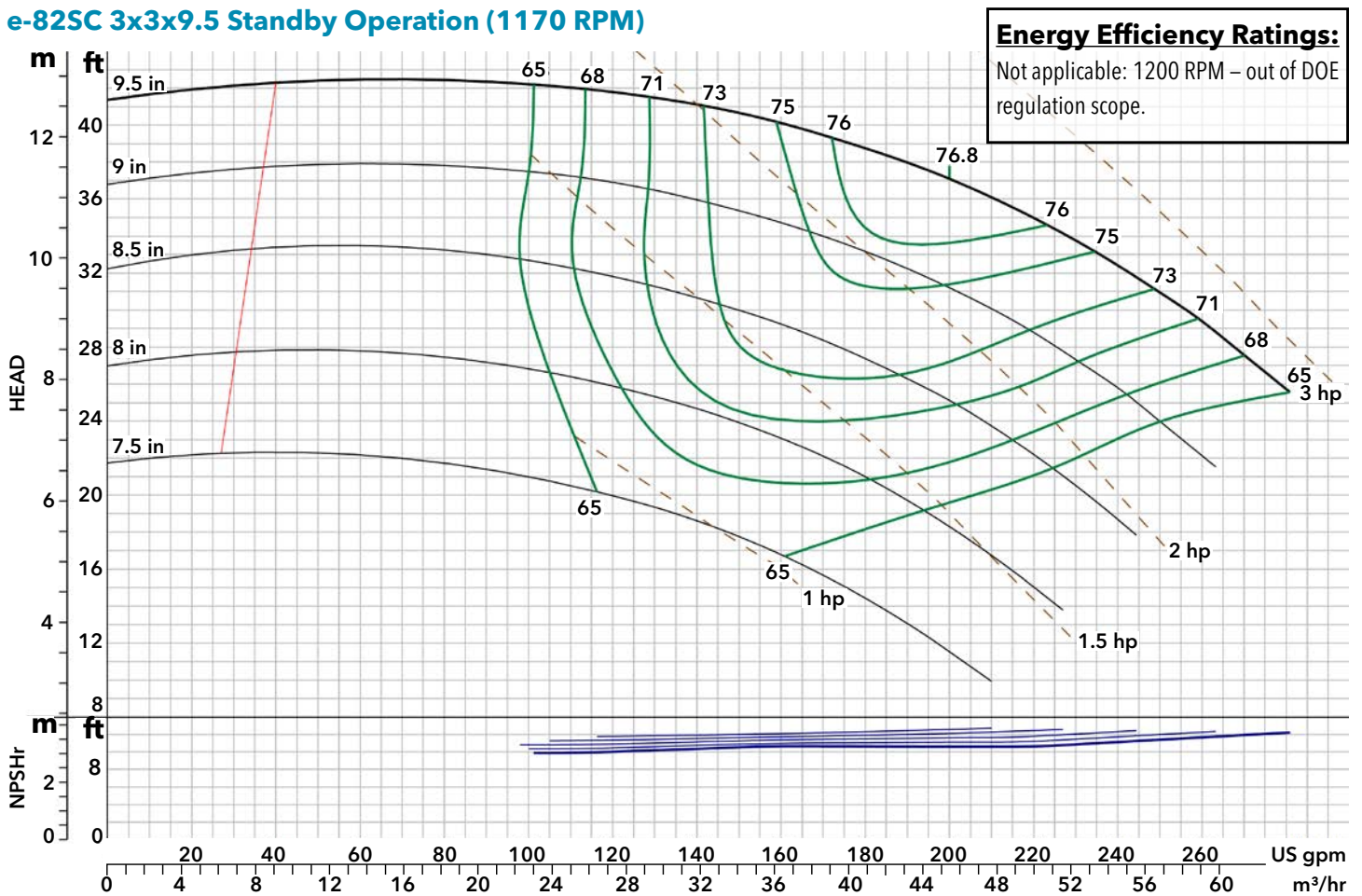
e-82SC 2.5x2.5x9.5 Standby Operation (1170 RPM)



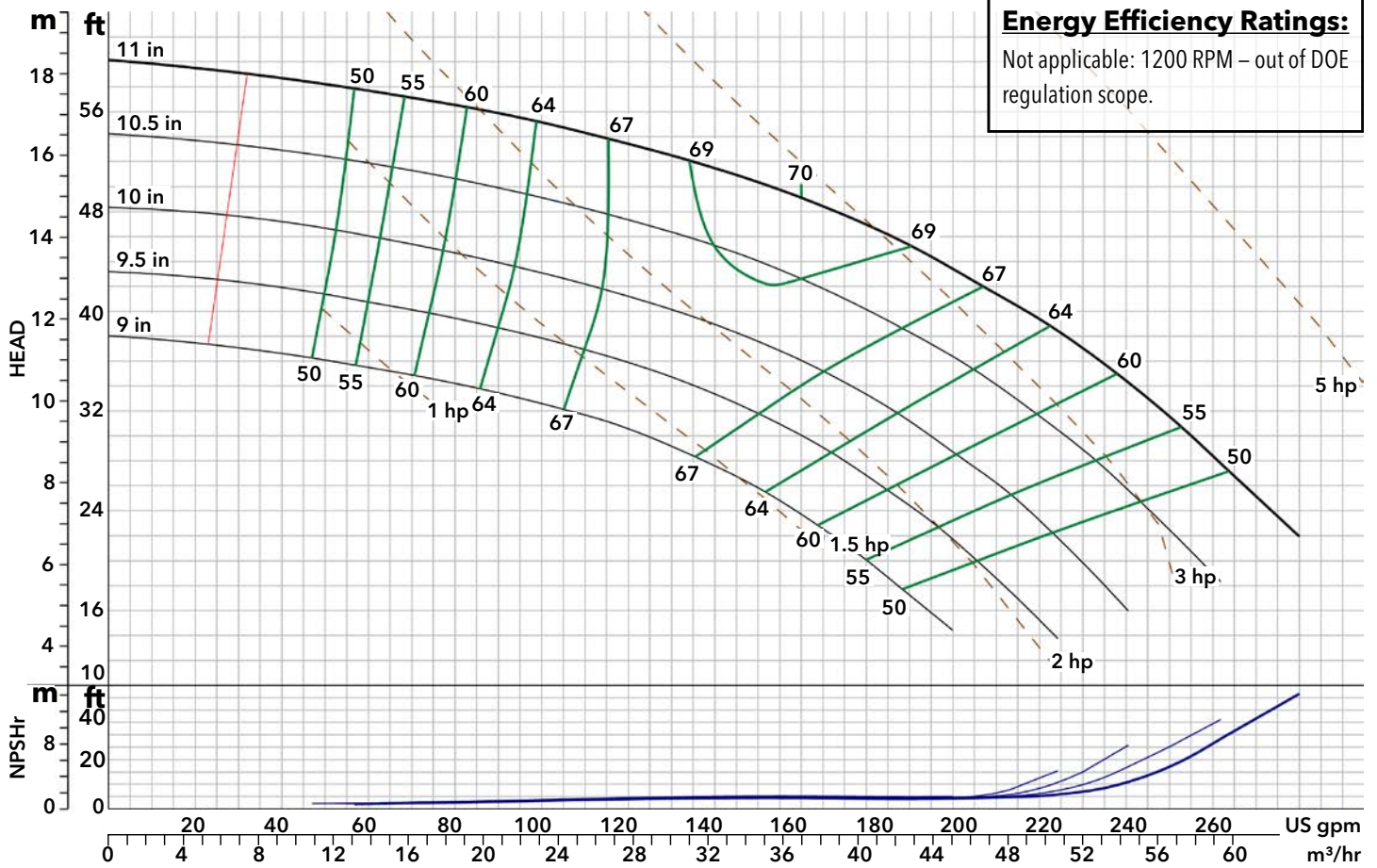
e-82SC 3x3x7 Standby Operation (1180 RPM)



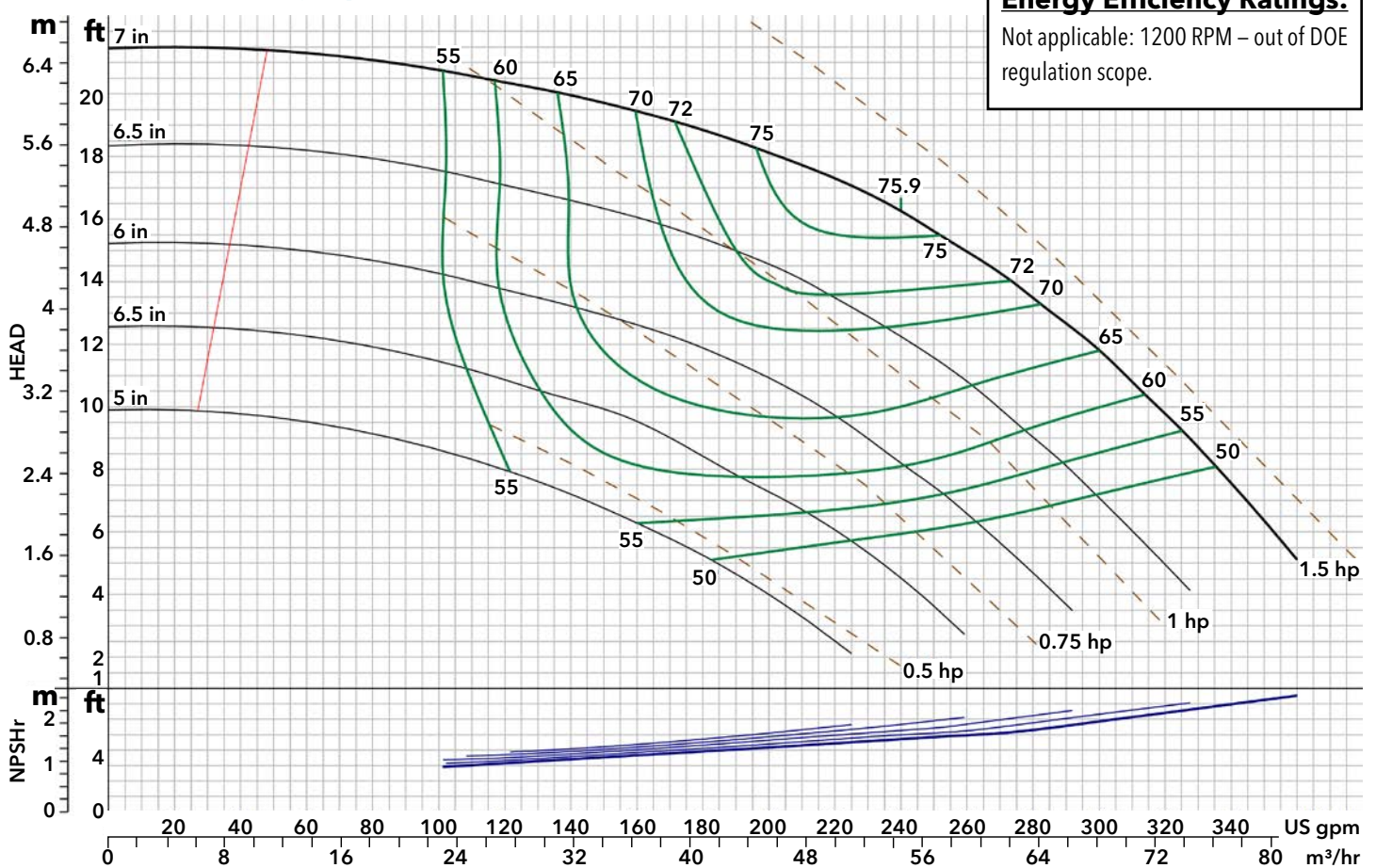
e-82SC 3x3x9.5 Standby Operation (1170 RPM)



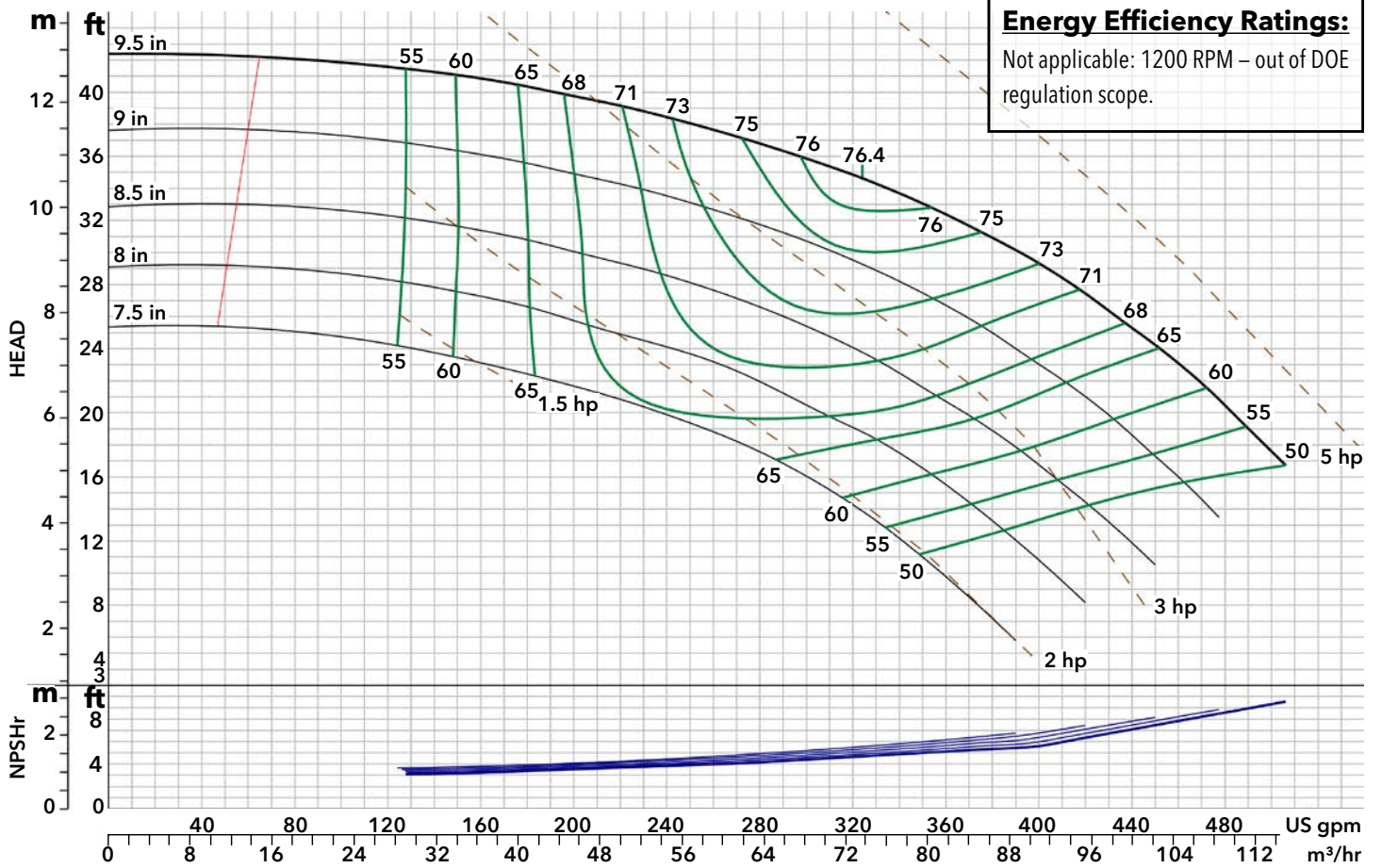
e-82SC 3x3x11 Standby Operation (1170 RPM)



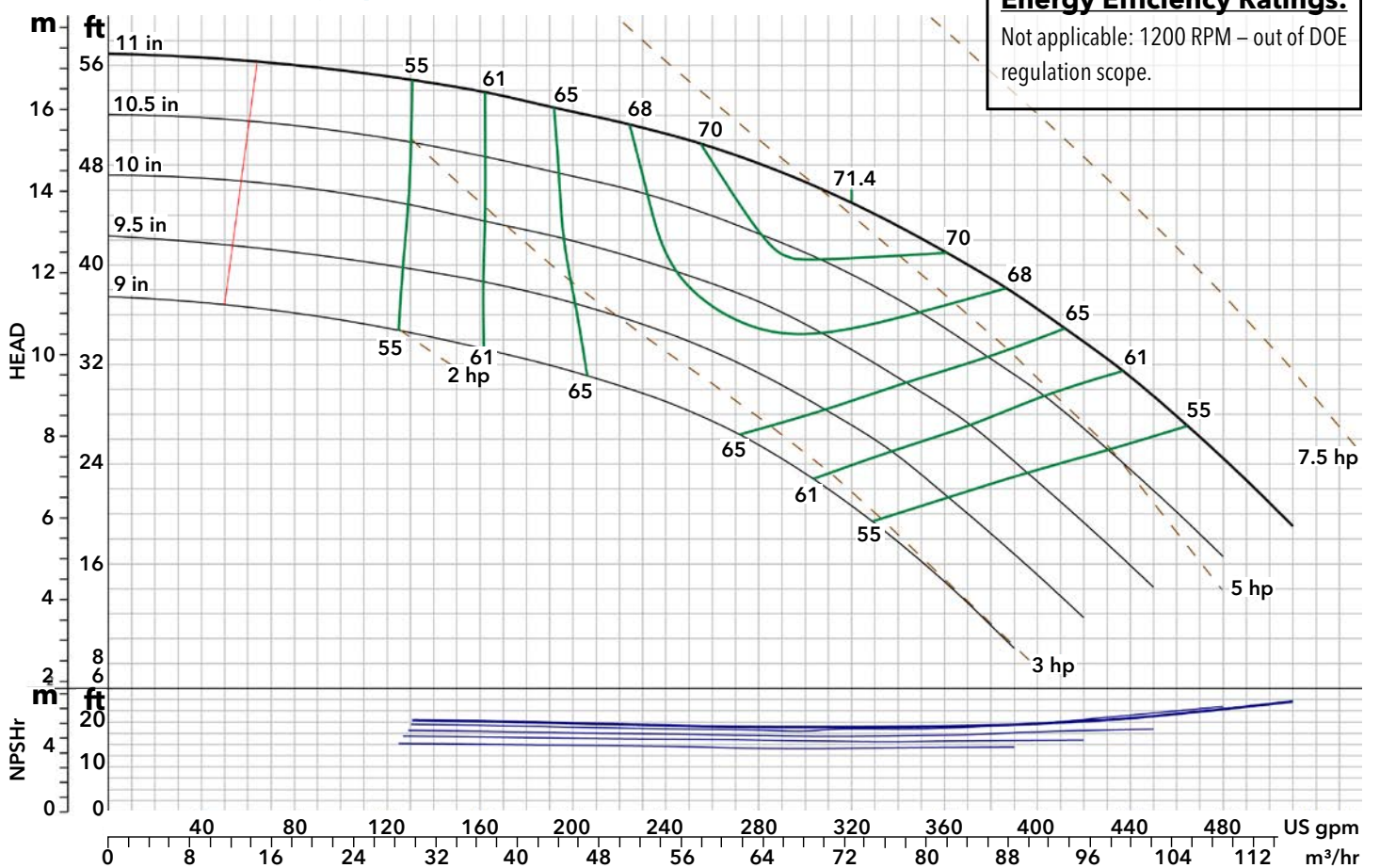
e-82SC 4x4x7 Standby Operation (1150 RPM)



e-82SC 4x4x9.5 Standby Operation (1170 RPM)



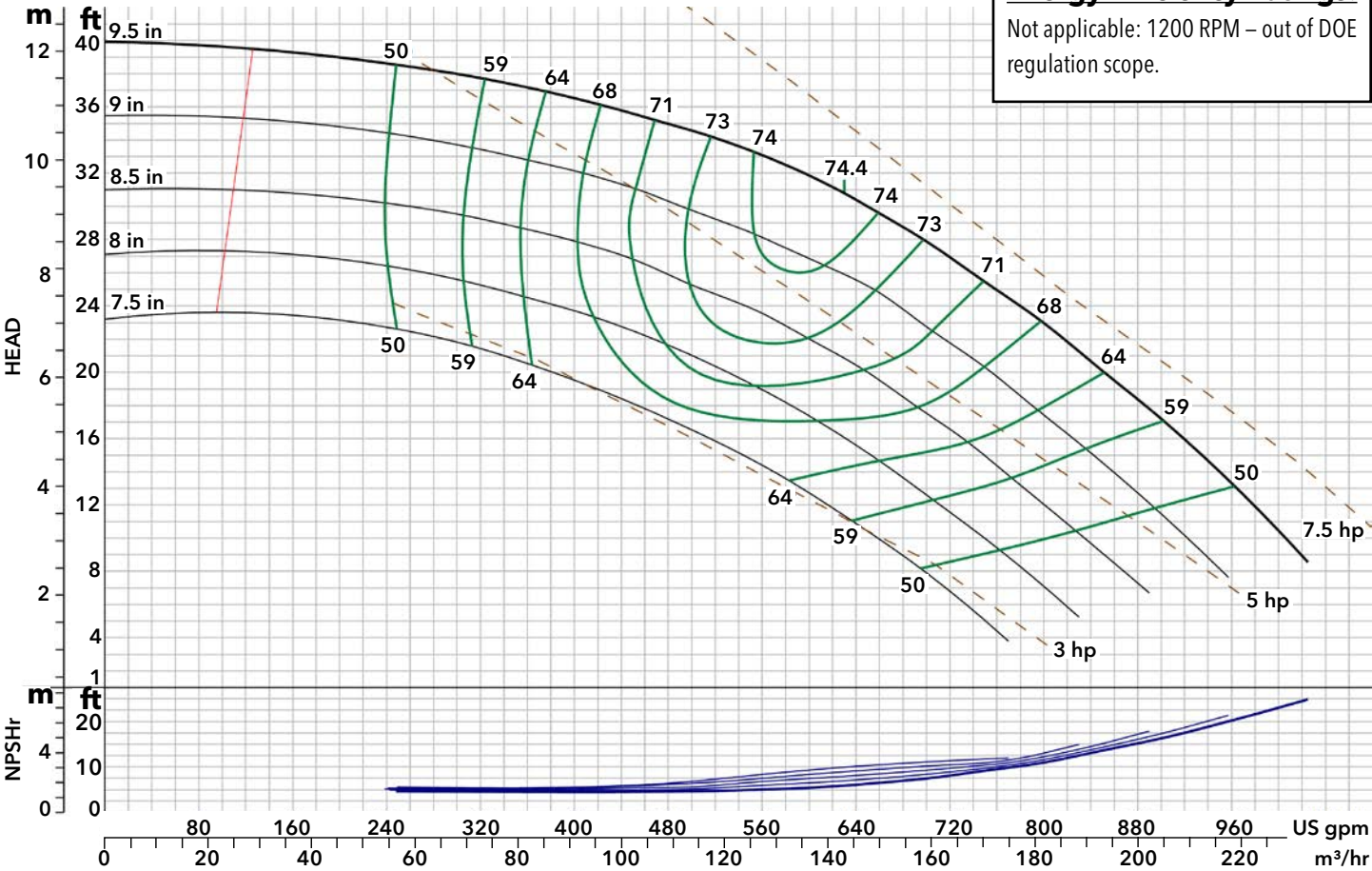
e-82SC 4x4x11 Standby Operation (1170 RPM)



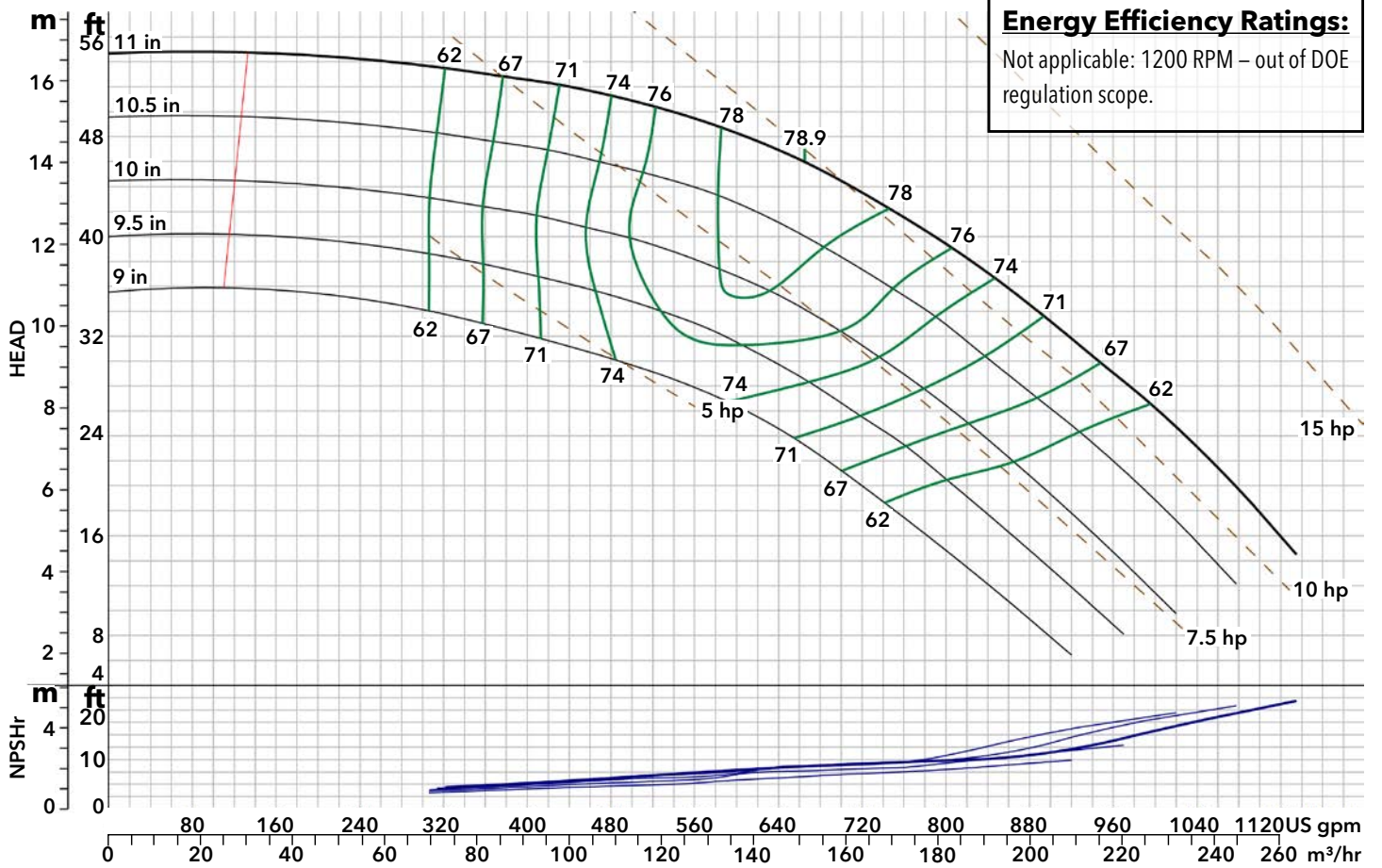
e-82SC 6x6x7 Standby Operation

Data coming soon

e-82SC 6x6x9.5 Standby Operation (1170 RPM)

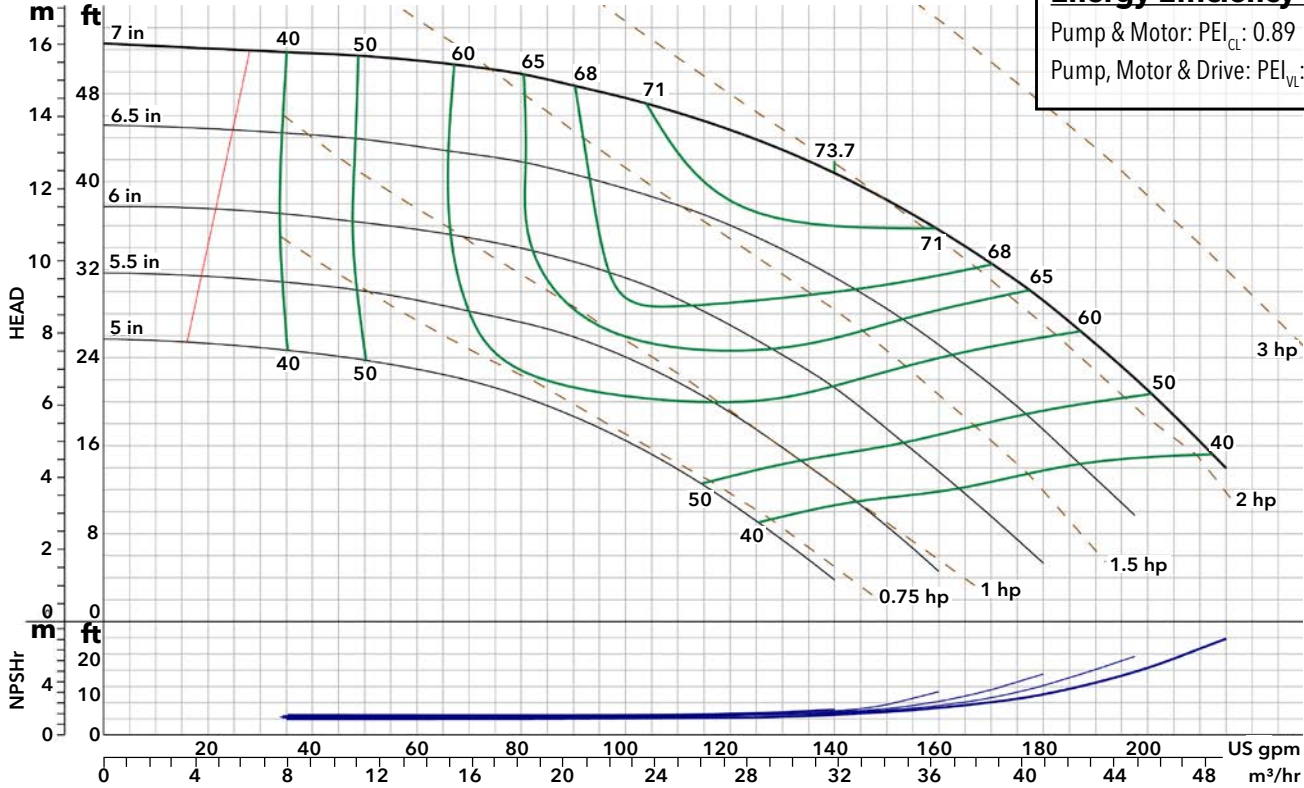


e-82SC 6x6x11 Standby Operation (1170 RPM)

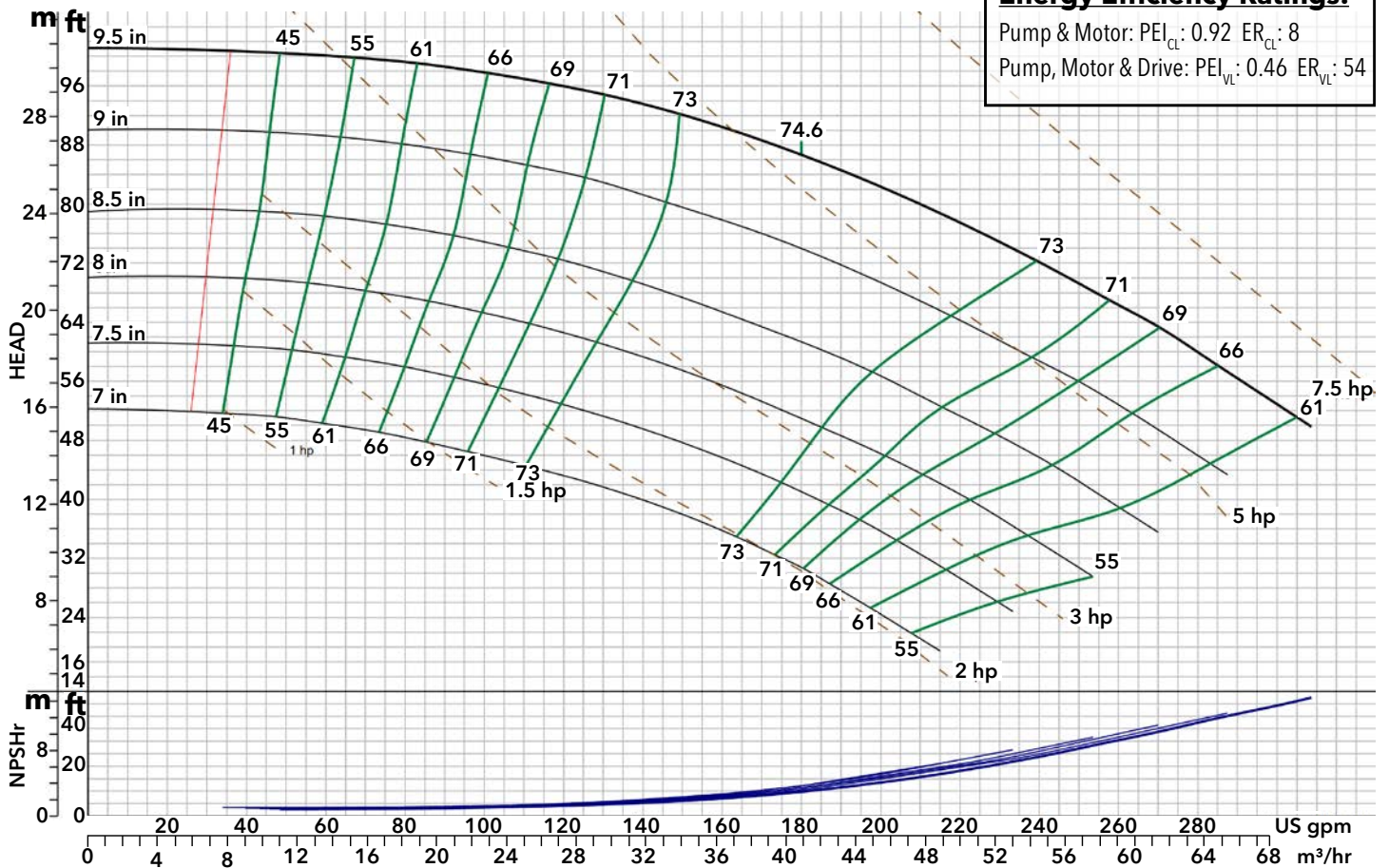


4 Pole Performance Data

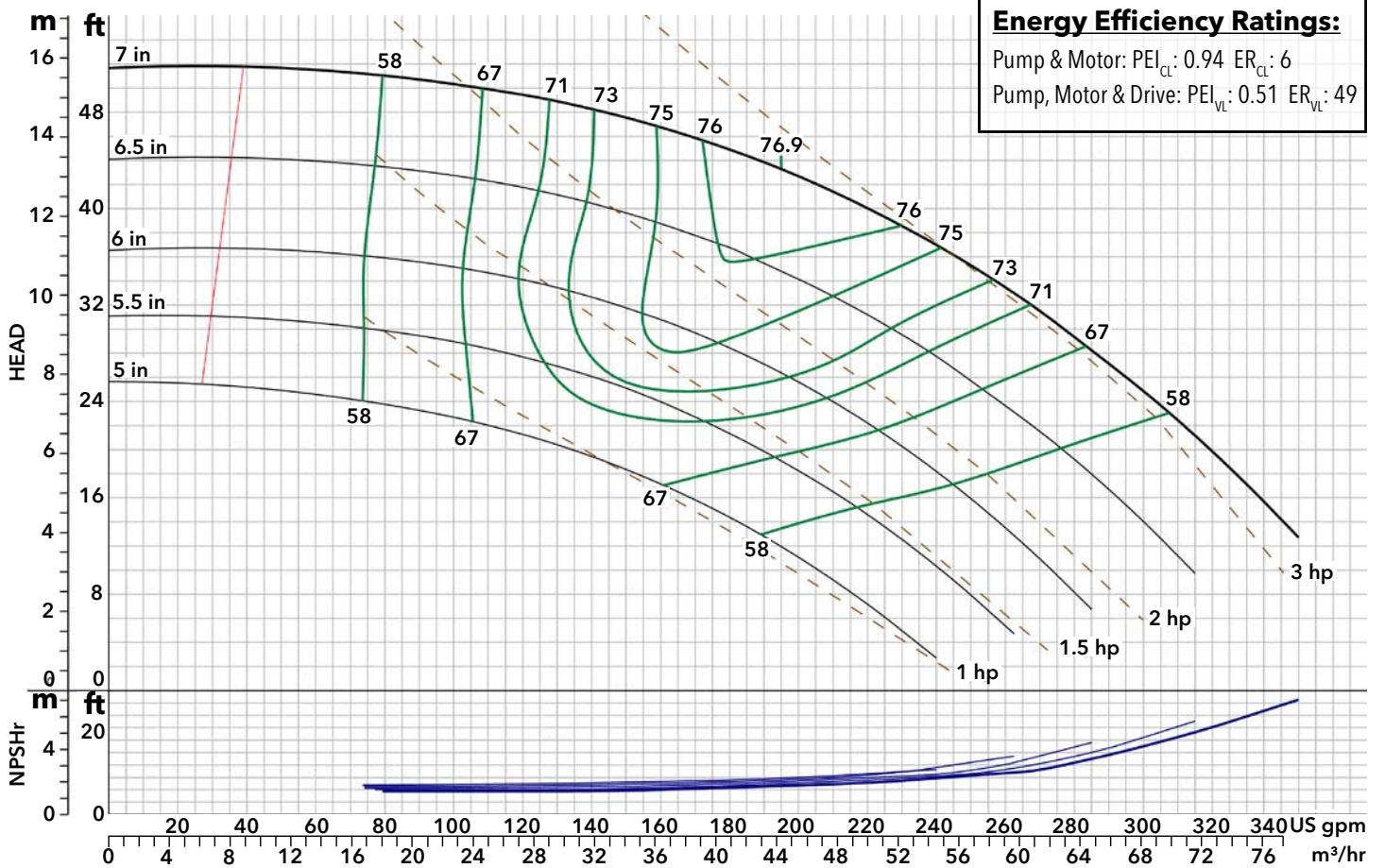
e-82SC 2.5x2.5x7 Standby Operation (1770 RPM)



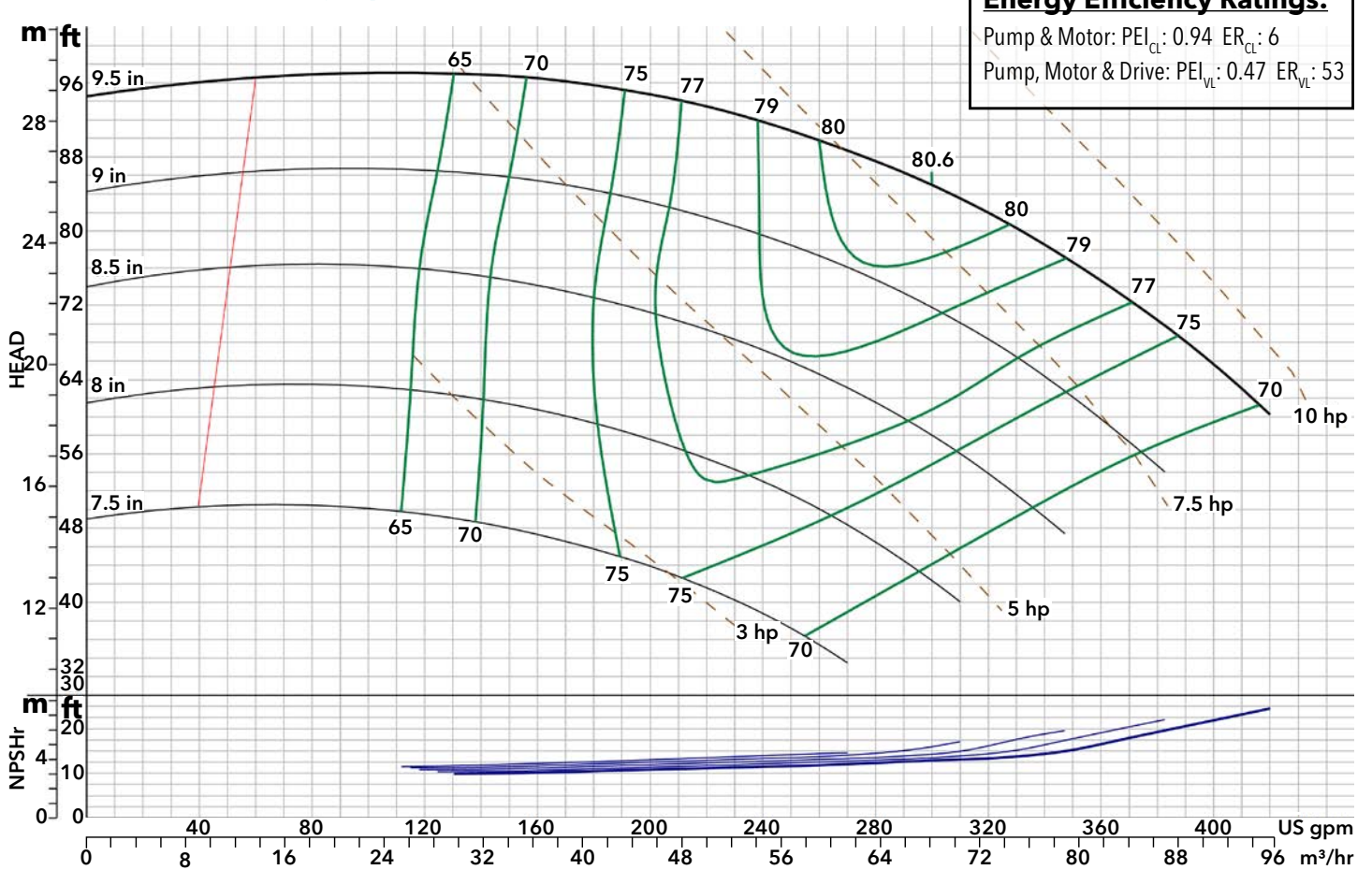
e-82SC 2.5x2.5x9.5 Standby Operation (1780 RPM)



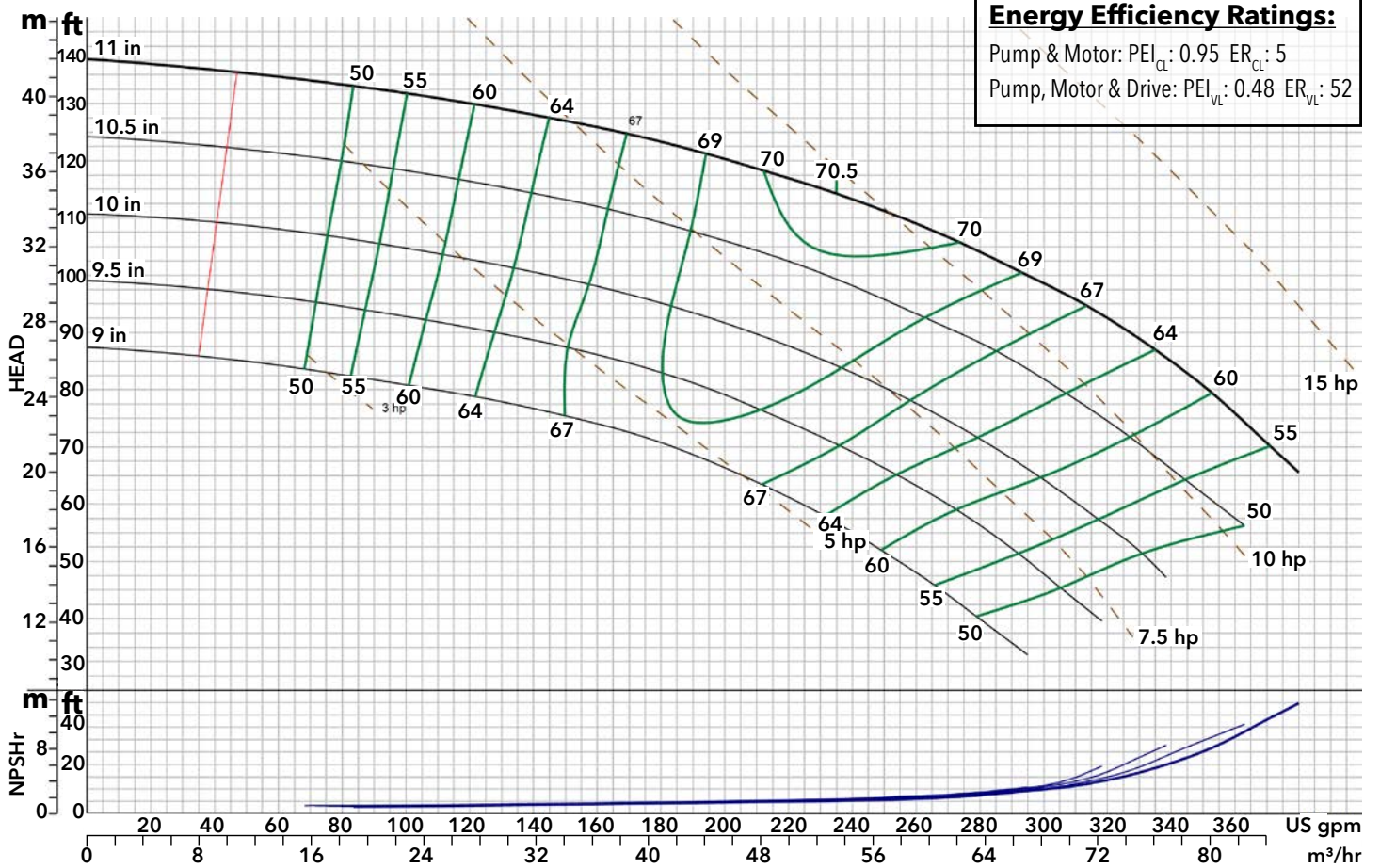
e-82SC 3x3x7 Standby Operation (1780 RPM)



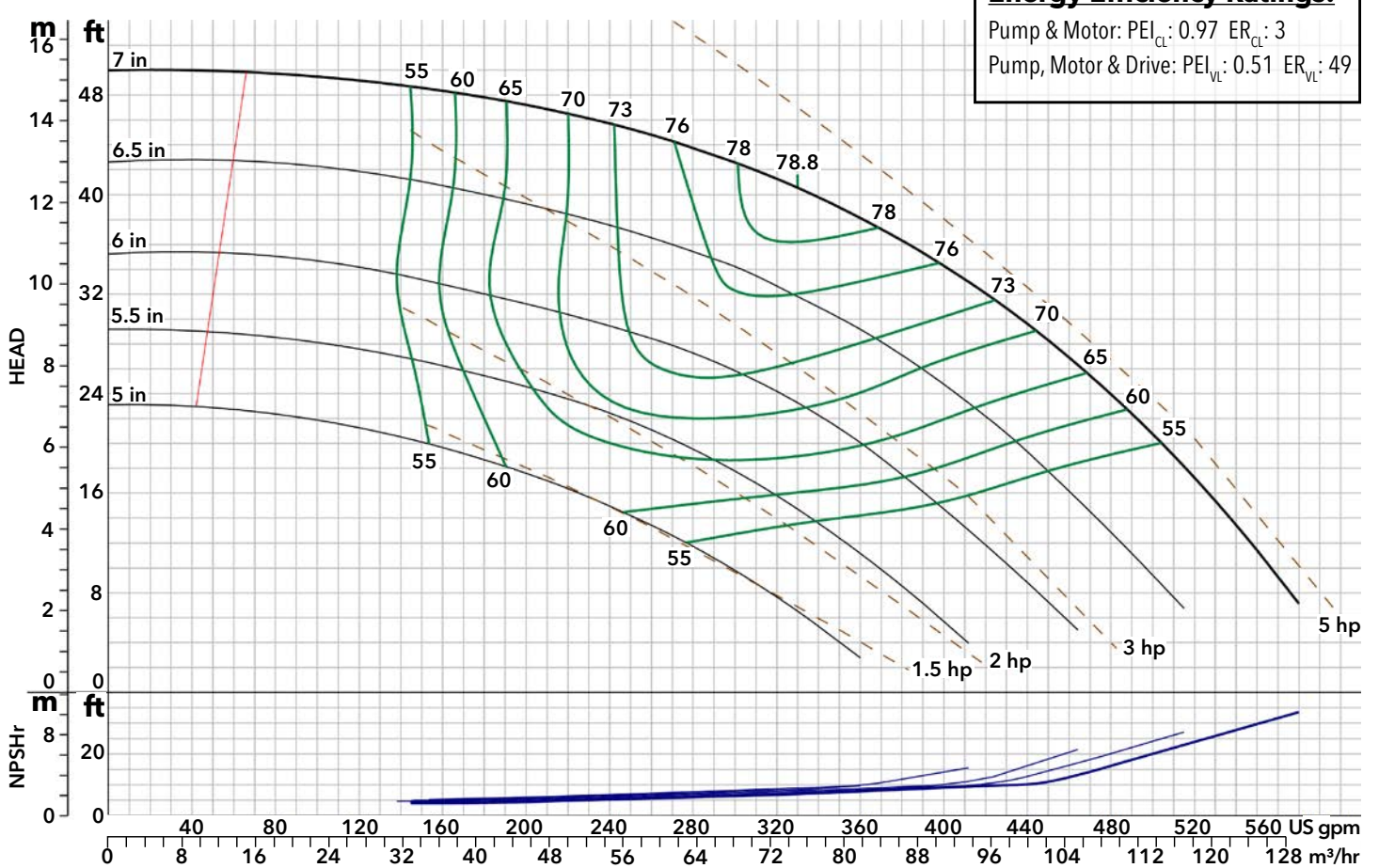
e-82SC 3x3x9.5 Standby Operation (1770 RPM)



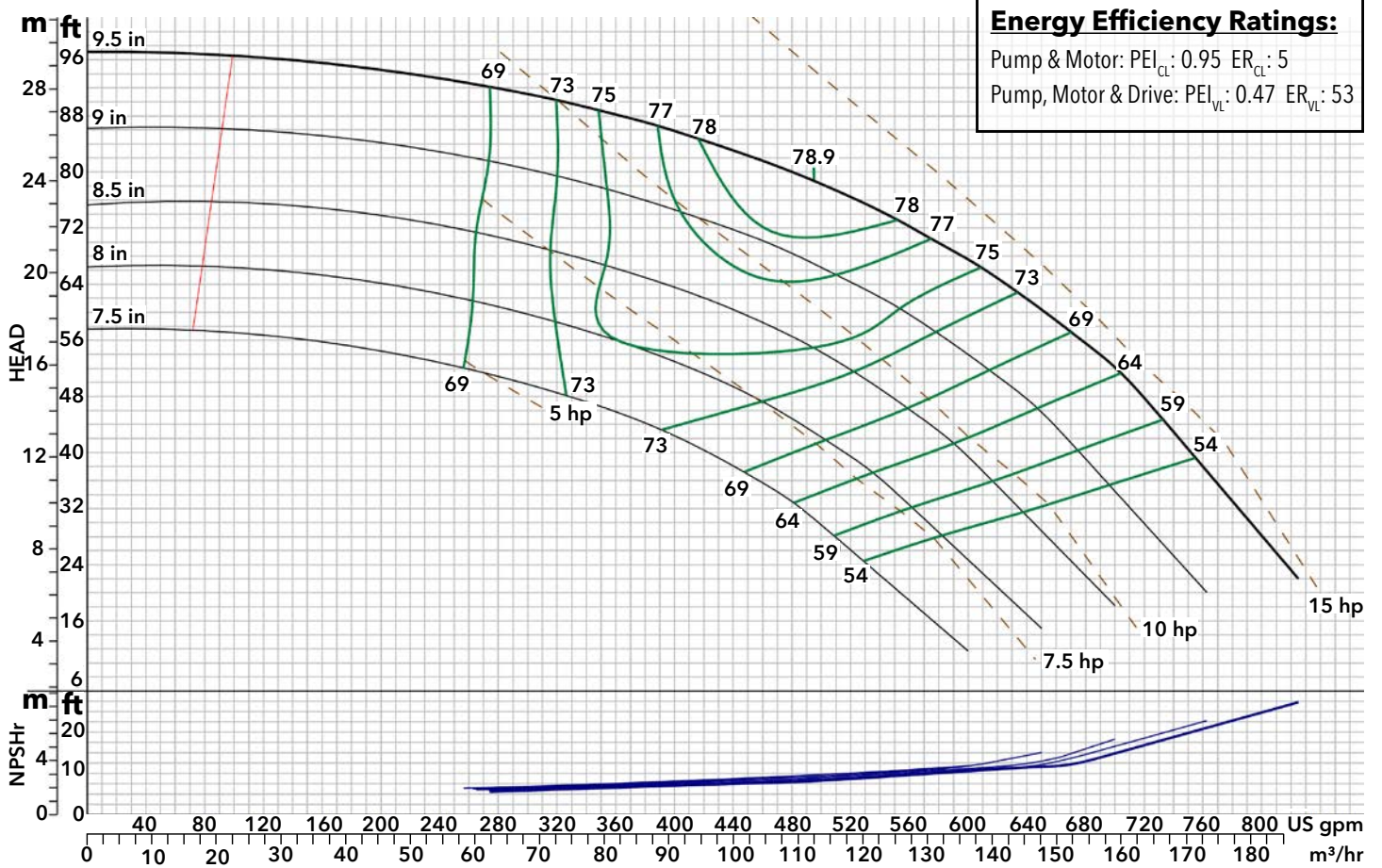
e-82SC 3x3x11 Standby Operation (1770 RPM)



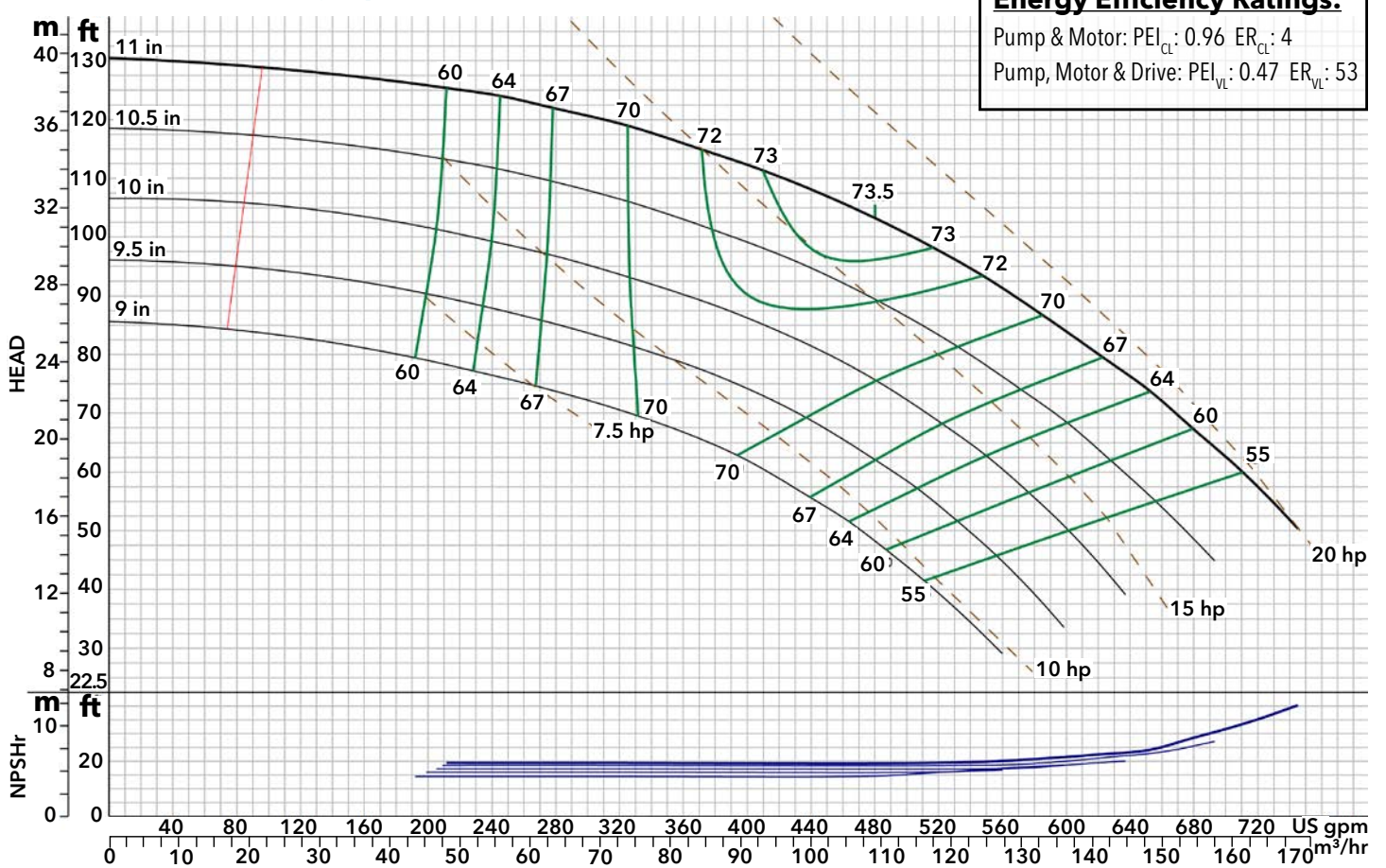
e-82SC 4x4x7 Standby Operation (1750 RPM)



e-82SC 4x4x9.5 Standby Operation (1770 RPM)

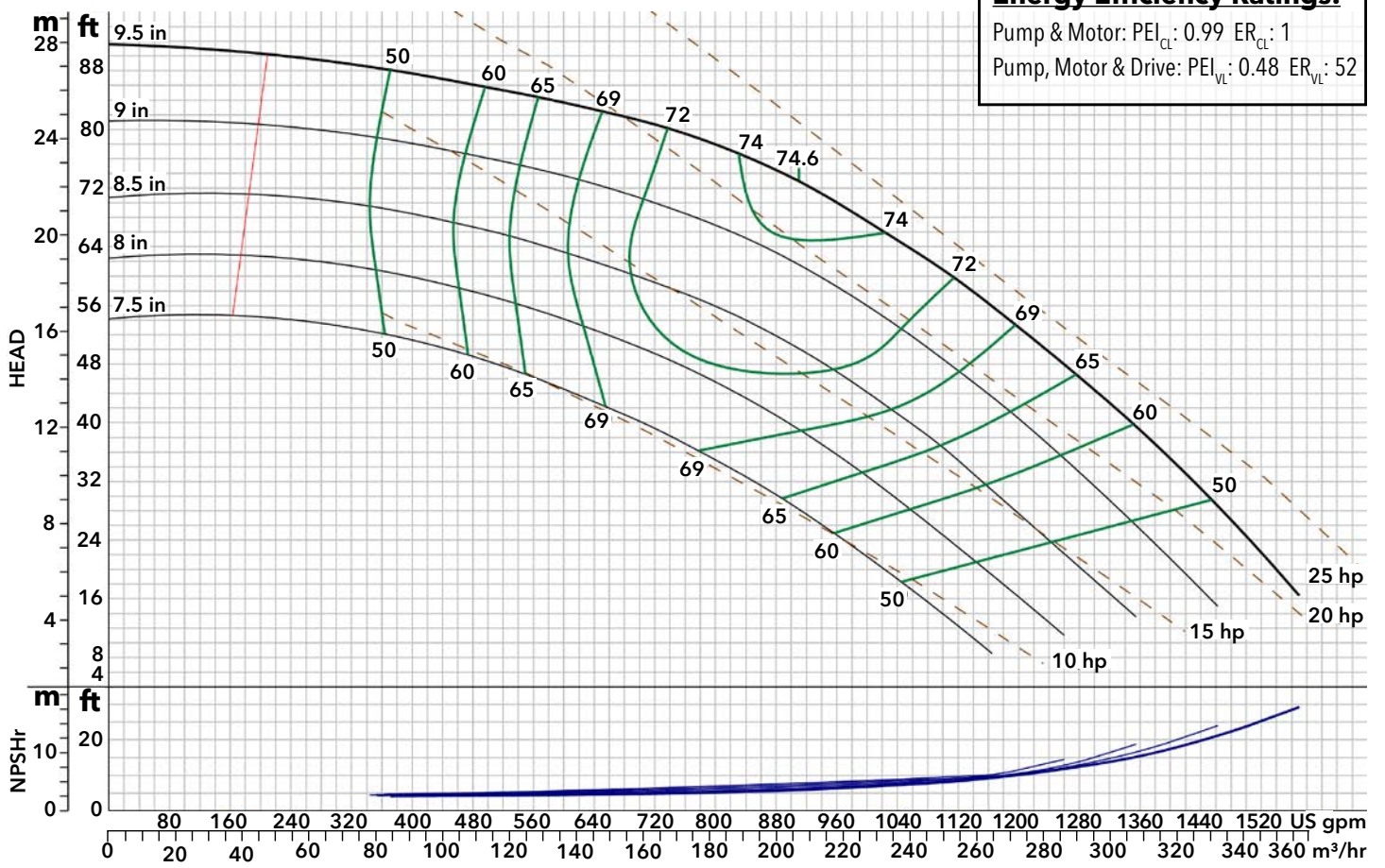


e-82SC 4x4x11 Standby Operation (1770 RPM)

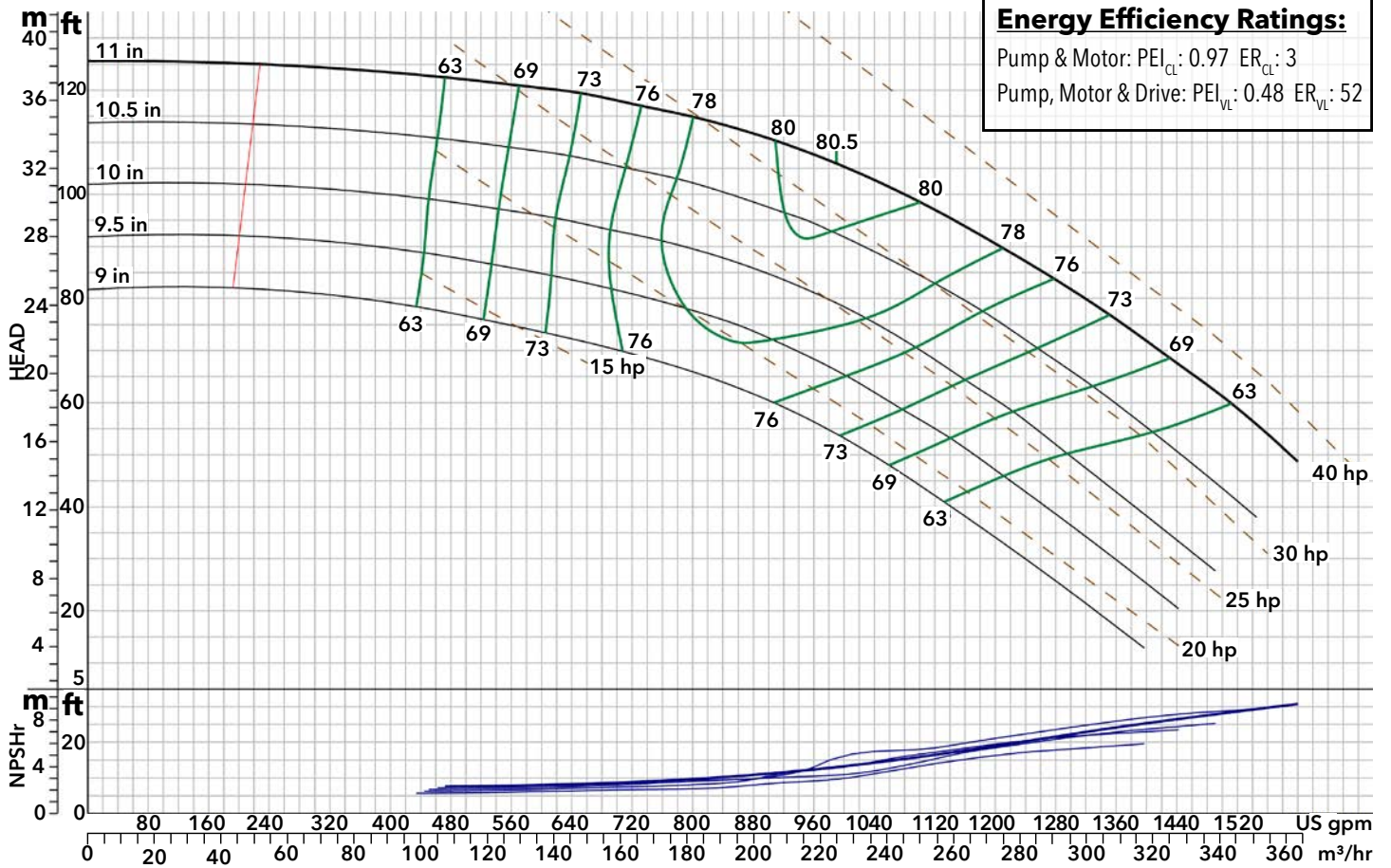


Data coming soon

e-82SC 6x6x9.5 Standby Operation (1770 RPM)

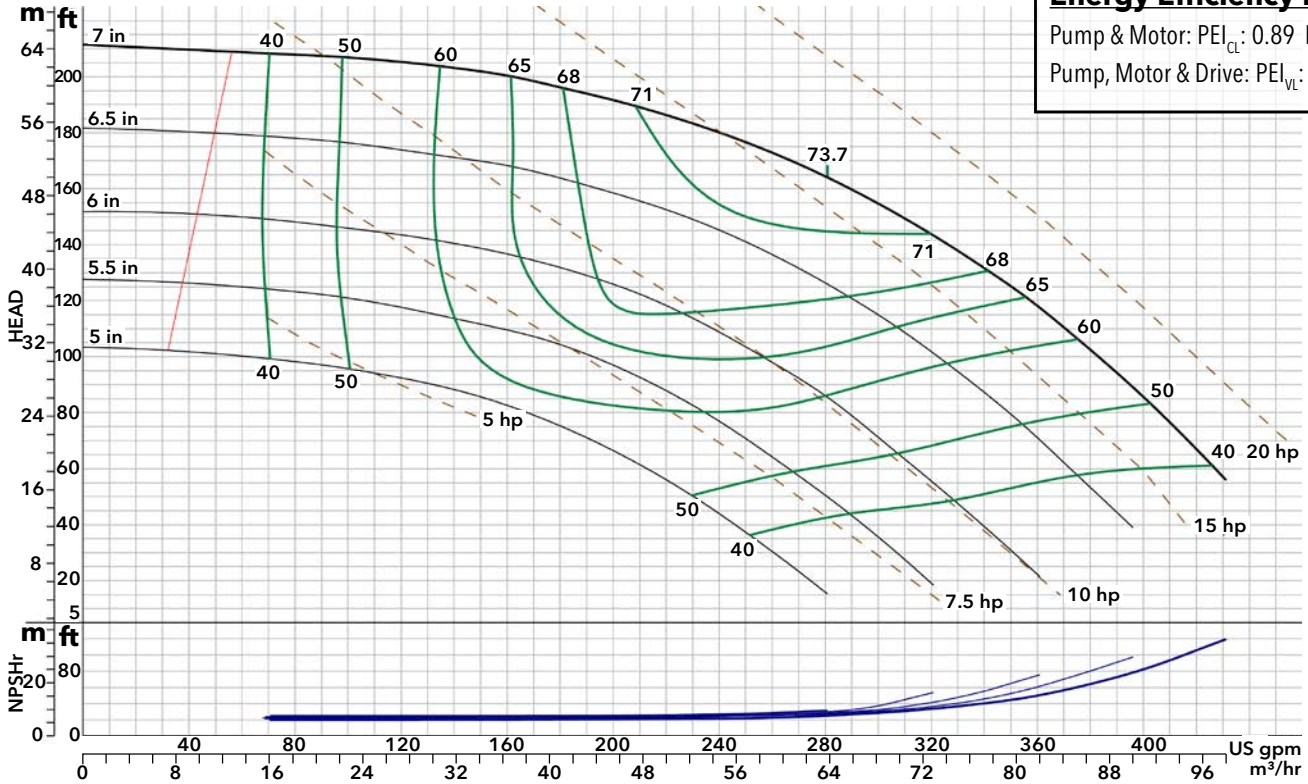


e-82SC 6x6x11 Standby Operation (1770 RPM)

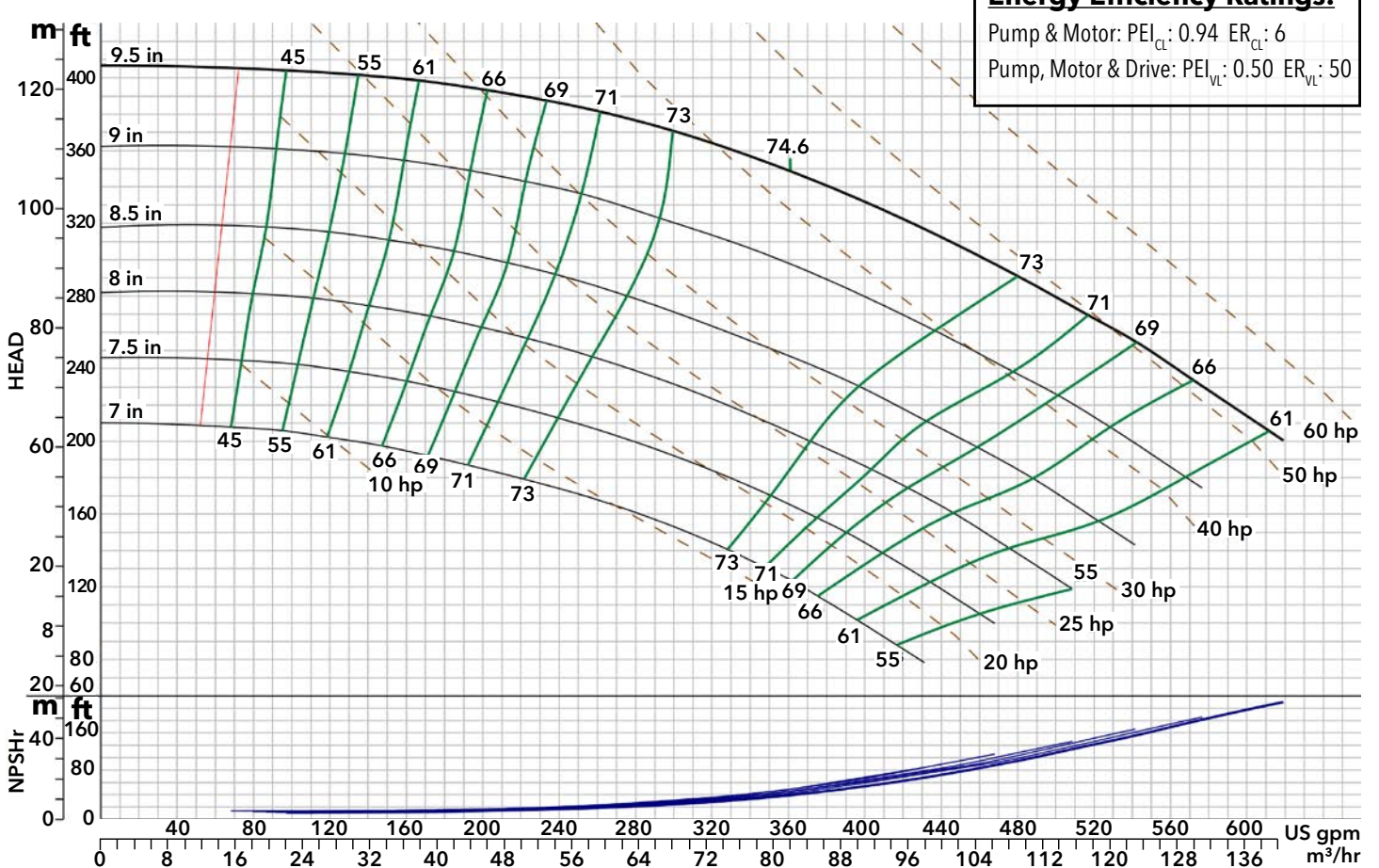


2 Pole Performance Data

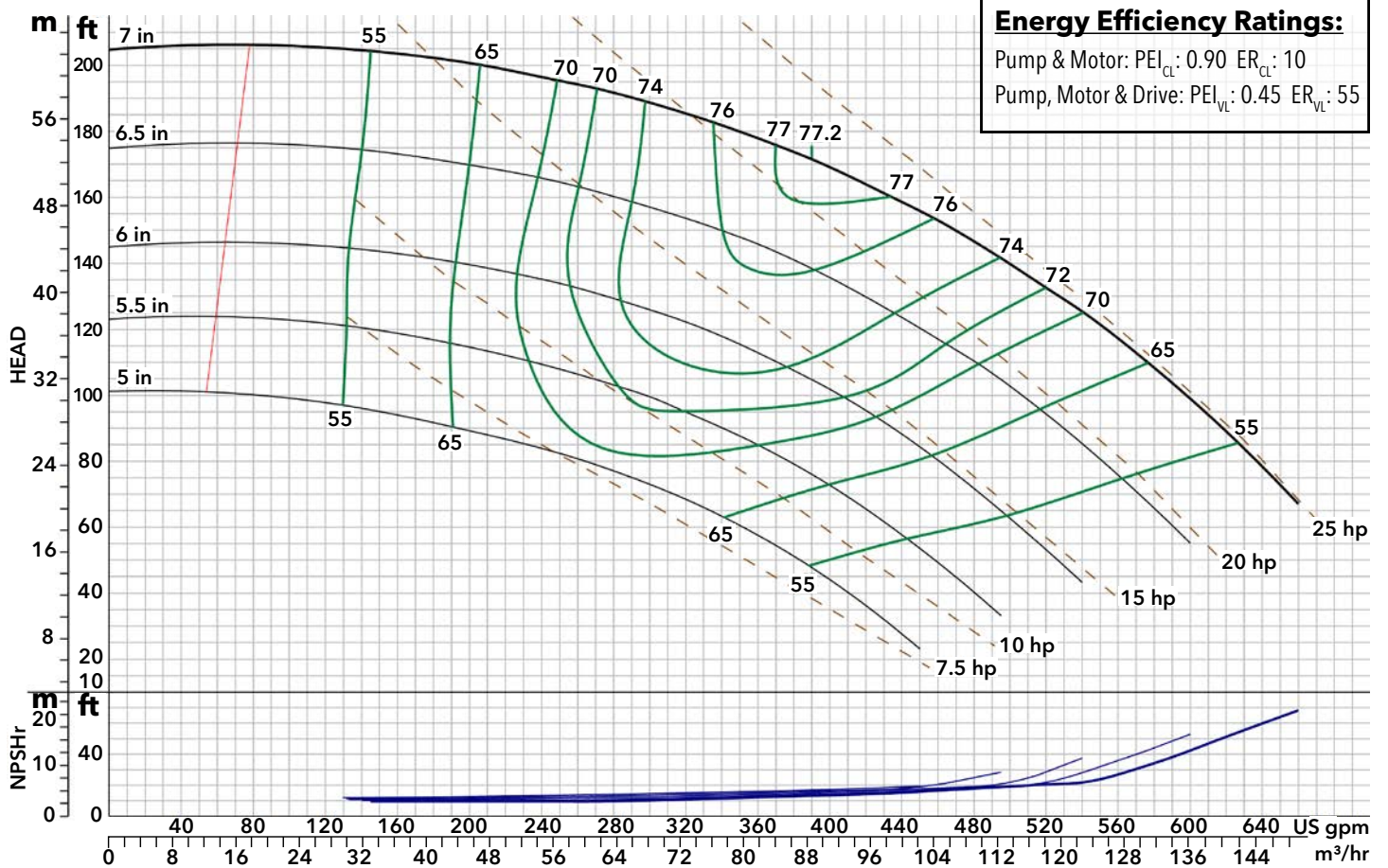
e-82SC 2.5x2.5x7 Standby Operation (3550 RPM)



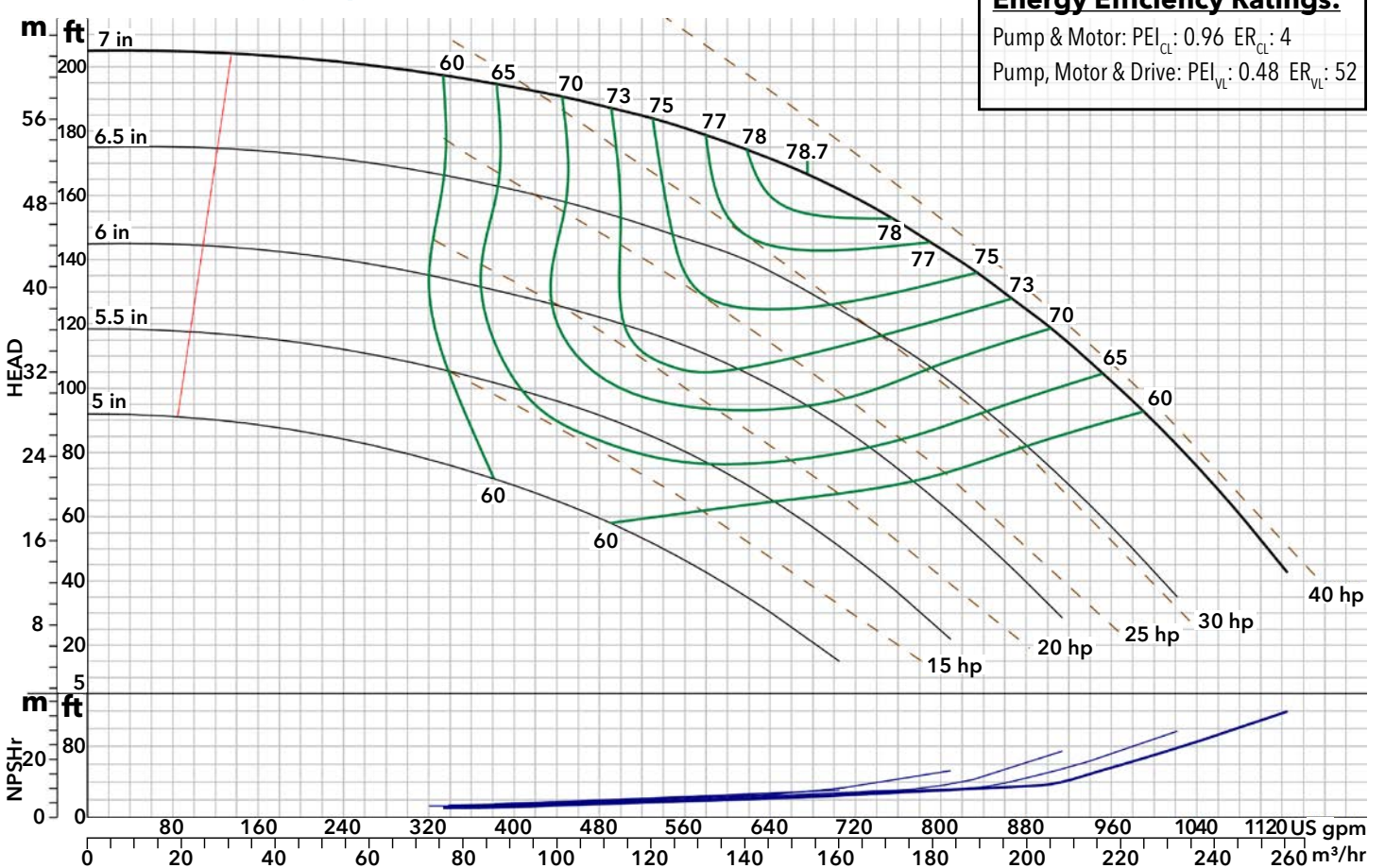
e-82SC 2.5x2.5x9.5 Standby Operation (3550 RPM)



e-82SC 3x3x7 Standby Operation (3550 RPM)



e-82SC 4x4x7 Standby Operation (3550 RPM)



Data coming soon

Useful Pump Formulas

Pressure (PSI) =	$\frac{\text{Head (Feet)} \times \text{Specific Gravity}}{2.31}$
Head (Feet) =	$\frac{\text{Pressure (PSI)} \times 2.31}{\text{Specific Gravity}}$
Vacuum (in. of Mercury) =	Dynamic Suction Lift (Feet) x .883 x Specific Gravity
Horsepower (Brake) =	$\frac{\text{GPM} \times \text{Head (Feet)} \times \text{Specific Gravity}}{3960 \times \text{Pump Efficiency}}$
Horsepower (Water) =	$\frac{\text{GPM} \times \text{Head (Feet)} \times \text{Specific Gravity}}{3960}$
Efficiency (Pump) =	$\frac{\text{Horsepower (Water)}}{\text{Horsepower (Brake)}} \times 100\%$
NPSH (Available) =	Positive Factors - Negative Factors

Affinity Laws: Effect of varying speed or impeller diameter.

	GPM Capacity	Head (Feet)	BHP
Impeller Diameter Change	$Q_2 = \frac{D_2}{D_1} \times Q_1$	$H_2 = \left(\frac{D_2}{D_1}\right)^2 \times H_1$	$P_2 = \left(\frac{D_2}{D_1}\right)^3 \times P_1$
Speed Change	$Q_2 = \frac{\text{RPM}_2}{\text{RPM}_1} \times Q_1$	$H_2 = \left(\frac{\text{RPM}_2}{\text{RPM}_1}\right)^2 \times H_1$	$P_2 = \left(\frac{\text{RPM}_2}{\text{RPM}_1}\right)^3 \times P_1$

Where Q = GPM, H = Head, P = BHP, D = Impeller Diameter, RPM = Pump Speed

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- 2) a leading global water technology company.

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