

Submittal Data Sheet

Wilco NL-HE - Base Mounted End Suction Pumps

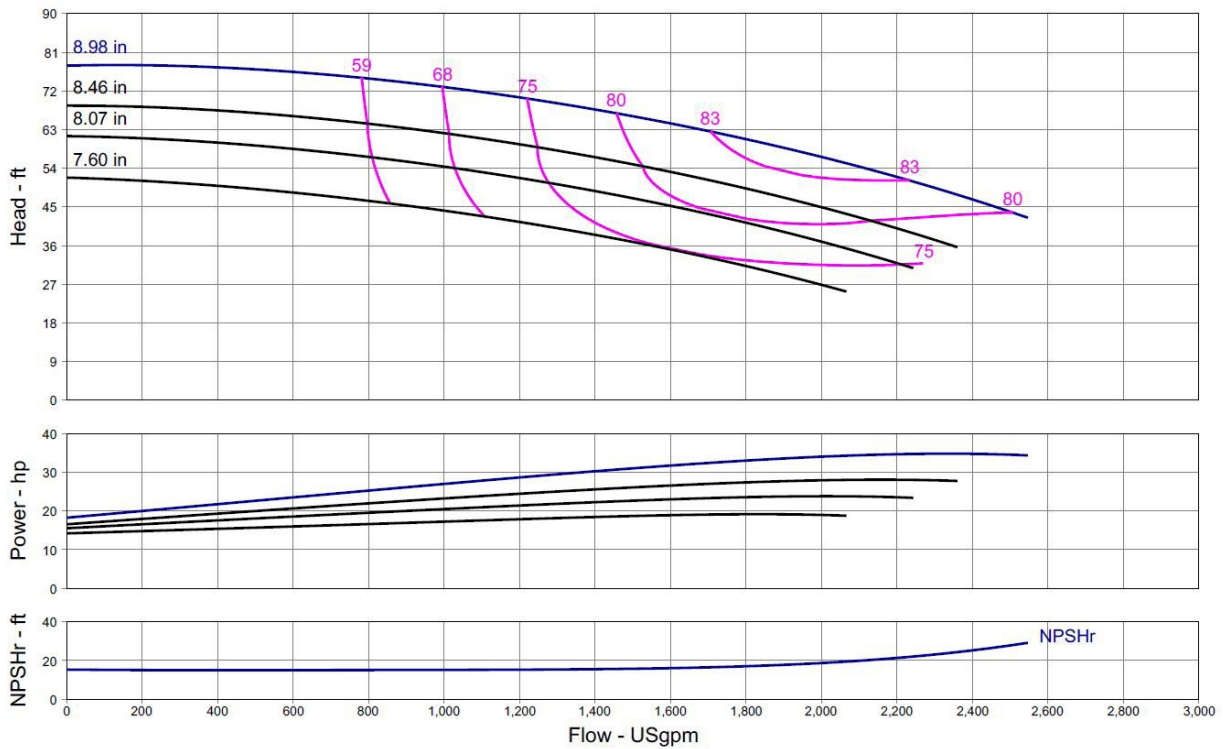


NL-HE 8 x 6 x 8 (4 Pole)



Project:	
Engineer:	
Contractor:	
Submitted By:	Date:
Approved By:	Date:

Tag #	Model #	Flow (USGPM)	Head (Feet)	HP	Enclosure	Frame	Cycle	Phase	Voltage	RPM
	NL-HE 8 x 6 x 8						60Hz	3		



Technical Data	
PEI	
0.95	
Approved Fluids	
Heating Water	
Cooling and cold water	
Pressure /Temperature Ratings	
Ambient Temperature:	+5 °F to +104 °F (-15 °C to +40 °C)
Max Working Pressure & Temperature:	189 psi (up to 284 °F Fluid Temperature) 232 psi (up to 248 °F Fluid Temperature)
Water-Glycol Mixtures for 20-40% glycol and fluid temp ≤ 104°F (40°C)	

Materials of Construction	
Pump Housing	EN-GL-250 Gray Cast Iron
Impeller	EN 1.4408 Cast Stainless Steel
Impeller (optional)	CC480K Bronze or EN-GJL 1030 Cast Iron
Pump Shaft	1.4021 + QT700 Stainless Steel
Mechanical Seal	Carbon/silicon carbide/EPDM (E1)
Other Mechanical Seals	Avail. on request
Additional Spacer Coupling	Avail. on request
Other:	

Approval Stamp

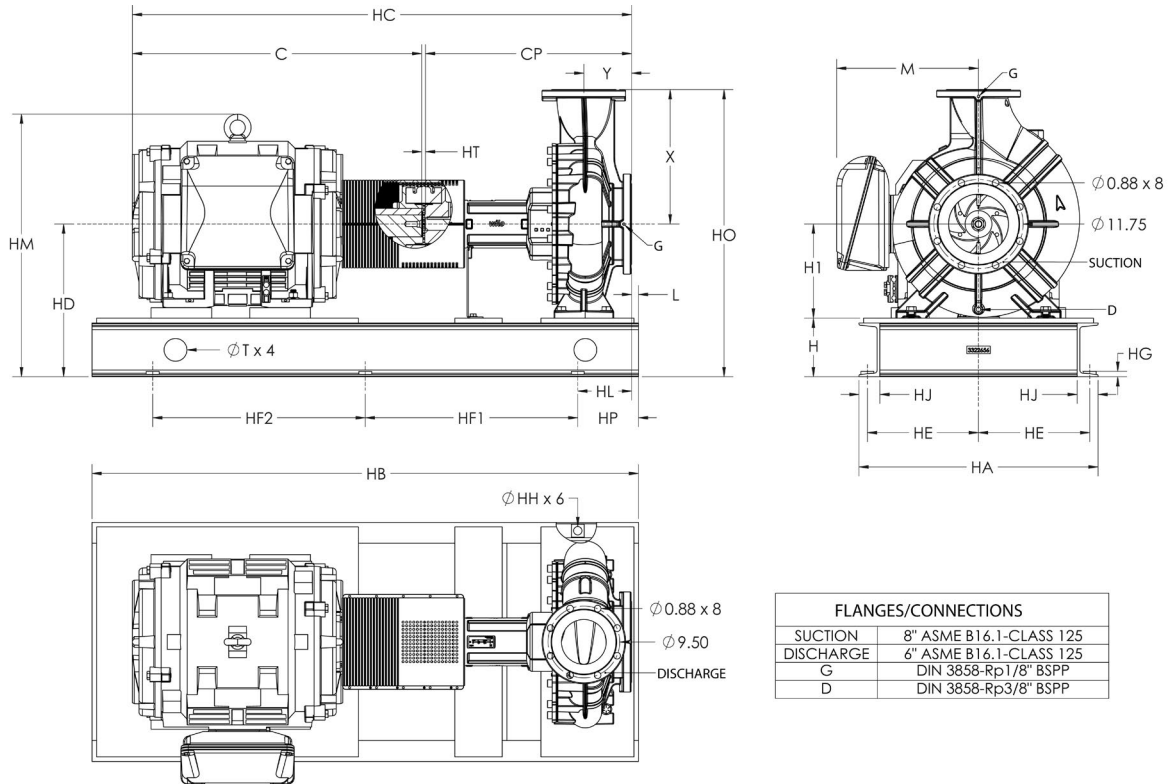
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Wilo NL-HE – Base Mounted End Suction Pumps



Dimensions & Weights

Wilo NL-HE



FLANGES/CONNECTIONS	
SUCTION	8" ASME B16.1-CLASS 125
DISCHARGE	6" ASME B16.1-CLASS 125
G	DIN 3858-Rp1/8" BSPP
D	DIN 3858-Rp3/8" BSPP

NL-HE 8 x 6 x 8

Motor							Dimensions - Inches																								
HP	ENCL	Frame	Volt	RPM	EFF	PF	H	H1	X	HD	HO	HM	M	HA	HE	HG	HJ	Y	HT	HC	C	CP	L	HL	T	HH	HP	HF1	HF2	HB	Wt. (lb)
20	ODP	254/6T	208-230/460	1770	93	0.81	5.9	11	15.7	16.9	32.7	22.7	9.5	27.7	12.9	0.64	2.4	6.3	0.50	45.8	20.5	24.8	0.45	5.55	2.25	0.95	6.0	19	19	50	825
20	TEFC	254/6T	208-230/460	1765	93	0.84	5.9	11	15.7	16.9	32.7	25.6	10.5	27.7	12.9	0.64	2.4	6.3	0.50	50.4	25.0	24.8	0.45	5.55	2.25	0.95	6.0	19	19	50	977
20	ODP	254/6T	575	1770	93	0.81	5.9	11	15.7	16.9	32.7	22.7	9.5	27.7	12.9	0.64	2.4	6.3	0.50	45.8	20.5	24.8	0.45	5.55	2.25	0.95	6.0	19	19	50	824
20	TEFC	254/6T	575	1765	93	0.84	5.9	11	15.7	16.9	32.7	25.6	10.5	27.7	12.9	0.64	2.4	6.3	0.50	50.4	25.0	24.8	0.45	5.55	2.25	0.95	6.0	19	19	50	975
25	ODP	284T	208-230/460	1770	93.6	0.84	5.9	11	15.7	16.9	32.7	25.6	11.9	27.7	12.9	0.64	2.4	6.3	0.50	48.5	23.2	24.8	0.45	5.55	2.25	0.95	6.0	19	19	50	981
25	TEFC	284/6T	208-230/460	1765	93.6	0.84	6.0	11	15.7	17.0	32.8	26.1	11.1	27.7	12.9	0.64	2.4	6.3	0.50	53.2	27.9	24.8	0.50	5.50	2.25	0.95	6.0	22	22	56	1084
25	ODP	284T	575	1770	93.6	0.84	5.9	11	15.7	16.9	32.7	25.6	11.9	27.7	12.9	0.64	2.4	6.3	0.50	48.5	23.2	24.8	0.45	5.55	2.25	0.95	6.0	19	19	50	980
25	TEFC	284/6T	575	1765	93.6	0.84	6.0	11	15.7	17.0	32.8	26.1	11.1	27.7	12.9	0.64	2.4	6.3	0.50	53.2	27.9	24.8	0.50	5.50	2.25	0.95	6.0	22	22	56	1082
30	ODP	284/6T	208-230/460	1770	94.1	0.84	5.9	11	15.7	16.9	32.7	25.6	11.9	27.7	12.9	0.64	2.4	6.3	0.50	50.0	24.7	24.8	0.45	5.55	2.25	0.95	6.0	19	19	50	1034
30	TEFC	284/6T	208-230/460	1765	93.6	0.84	6.0	11	15.7	17.0	32.8	26.1	11.1	27.7	12.9	0.64	2.4	6.3	0.50	53.2	27.9	24.8	0.50	5.50	2.25	0.95	6.0	22	22	56	1128
30	ODP	284/6T	575	1770	94.1	0.84	5.9	11	15.7	16.9	32.7	25.6	11.9	27.7	12.9	0.64	2.4	6.3	0.50	50.0	24.7	24.8	0.45	5.55	2.25	0.95	6.0	19	19	50	1033
30	TEFC	284/6T	575	1765	93.6	0.84	6.0	11	15.7	17.0	32.8	26.1	11.1	27.7	12.9	0.64	2.4	6.3	0.50	53.2	27.9	24.8	0.50	5.50	2.25	0.95	6.0	22	22	56	1126
40	ODP	324T	208-230/460	1775	94.1	0.84	6.0	11	15.7	17.0	32.8	26.7	13.4	27.7	12.9	0.64	2.4	6.3	0.50	51.1	25.8	24.8	0.50	5.50	2.25	0.95	6.0	22	22	56	1120
40	TEFC	324/6T	208-230/460	1770	94.1	0.85	6.0	11	15.7	17.0	32.8	27.4	12.6	27.7	12.9	0.64	2.4	6.3	0.50	56.4	31.1	24.8	0.50	5.50	2.25	0.95	6.0	22	22	56	1244
40	ODP	324T	575	1775	94.1	0.84	6.0	11	15.7	17.0	32.8	26.7	13.4	27.7	12.9	0.64	2.4	6.3	0.50	51.1	25.8	24.8	0.50	5.50	2.25	0.95	6.0	22	22	56	1118
40	TEFC	324/6T	575	1770	94.1	0.85	6.0	11	15.7	17.0	32.8	27.4	12.6	27.7	12.9	0.64	2.4	6.3	0.50	56.4	31.1	24.8	0.50	5.50	2.25	0.95	6.0	22	22	56	1241

Submittal Data Sheet

Wilo NL-HE – Base Mounted End Suction Pumps

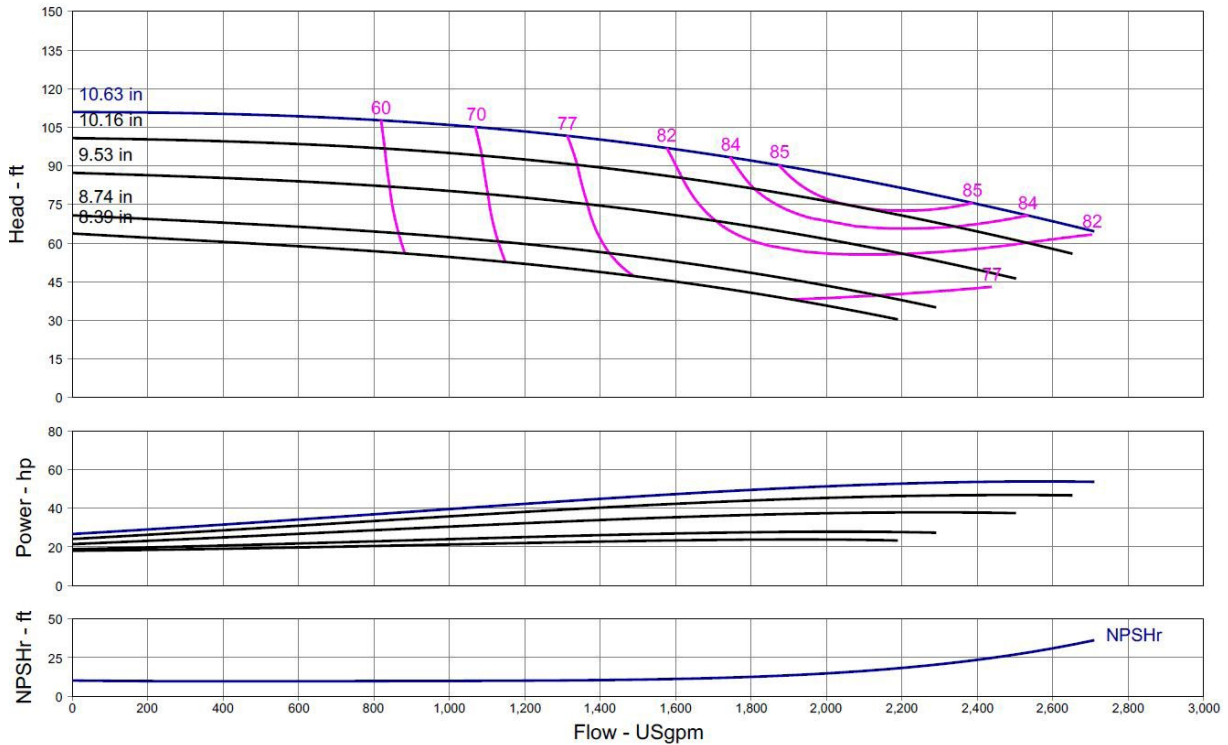


NL-HE 8 x 6 x 10 (4 Pole)



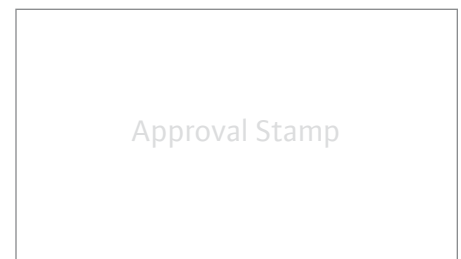
Project:	
Engineer:	
Contractor:	
Submitted By:	Date:
Approved By:	Date:

Tag #	Model #	Flow (USGPM)	Head (Feet)	HP	Enclosure	Frame	Cycle	Phase	Voltage	RPM
	NL-HE 8 x 6 x 10						60Hz	3		



Technical Data	
PEI	
0.96	
Approved Fluids	
Heating Water	
Cooling and cold water	
Pressure /Temperature Ratings	
Ambient Temperature:	+5 °F to +104 °F (-15 °C to +40 °C)
Max Working Pressure & Temperature:	189 psi (up to 284 °F Fluid Temperature) 232 psi (up to 248 °F Fluid Temperature)
Water-Glycol Mixtures for 20-40% glycol and fluid temp ≤ 104°F (40°C)	

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Pump Shaft	1.4021 + QT700 Stainless Steel
Mechanical Seal	Carbon/silicon carbide/EPDM (E1)
Other Mechanical Seals	Avail. on request
Additional Spacer Coupling	Avail. on request
Other:	



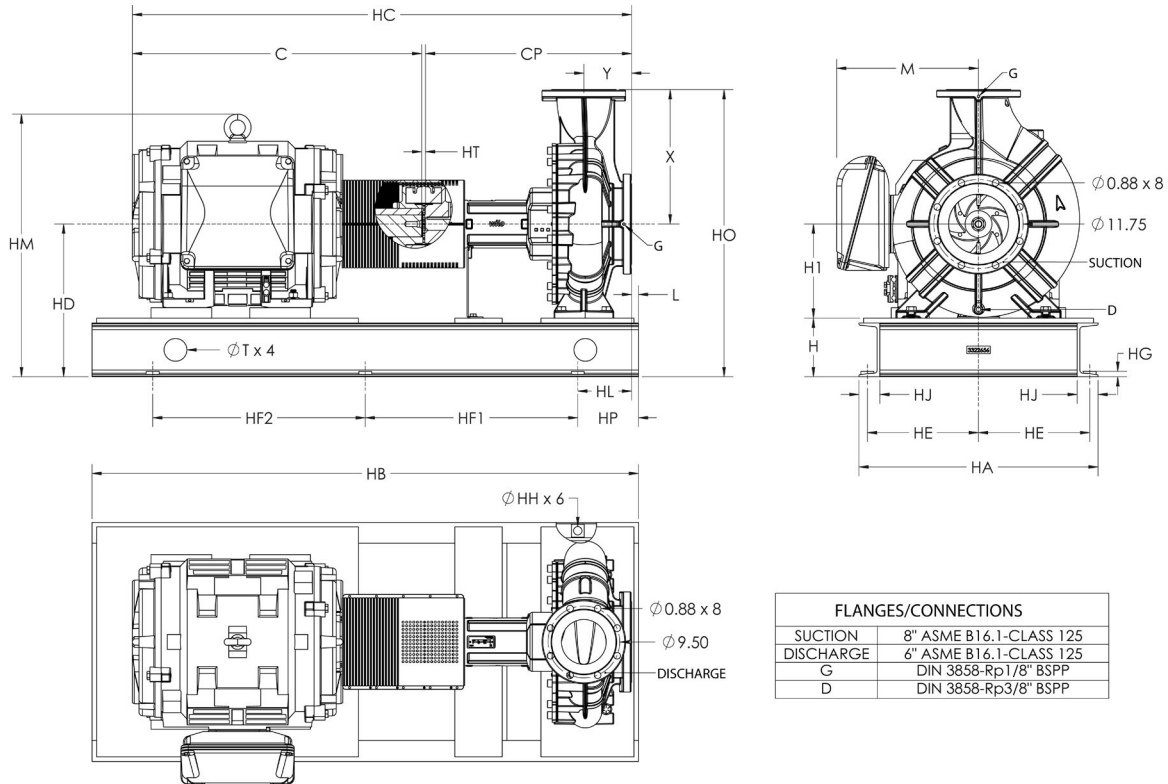
Submittal Data Sheet

Wilo NL-HE - Base Mounted End Suction Pumps



Dimensions & Weights

Wilo NL-HE



NL-HE 8 x 6 x 10

Motor							Dimensions - Inches																								
HP	ENCL	Frame	Volt	RPM	EFF	PF	H	H1	X	HD	HO	HM	M	HA	HE	HG	HJ	Y	HT	HC	C	CP	L	HL	T	HH	HP	HF1	HF2	HB	Wt. (lb.)
25	ODP	284T	208-230/460	1770	93.6	0.84	5.9	11	14.8	16.9	31.7	25.6	11.9	26.2	12.2	0.64	2.4	6.3	0.50	50.8	23.2	27.2	0.35	6.15	2.25	0.95	6.5	21	21	55	1056
25	TEFC	284/6T	208-230/460	1765	93.6	0.84	5.9	11	14.8	16.9	31.7	26.1	11.1	26.2	12.2	0.64	2.4	6.3	0.50	55.6	27.9	27.2	0.35	6.15	2.25	0.95	6.5	21	21	55	1120
25	ODP	284T	575	1770	93.6	0.84	5.9	11	14.8	16.9	31.7	25.6	11.9	26.2	12.2	0.64	2.4	6.3	0.50	50.8	23.2	27.2	0.35	6.15	2.25	0.95	6.5	21	21	55	1055
25	TEFC	284/6T	575	1765	93.6	0.84	5.9	11	14.8	16.9	31.7	26.1	11.1	26.2	12.2	0.64	2.4	6.3	0.50	55.6	27.9	27.2	0.35	6.15	2.25	0.95	6.5	21	21	55	1118
30	ODP	284/6T	208-230/460	1770	94.1	0.84	5.9	11	14.8	16.9	31.7	25.6	11.9	26.2	12.2	0.64	2.4	6.3	0.50	52.3	24.7	27.2	0.35	6.15	2.25	0.95	6.5	21	21	55	1103
30	TEFC	284/6T	208-230/460	1765	93.6	0.84	5.9	11	14.8	16.9	31.7	26.1	11.1	26.2	12.2	0.64	2.4	6.3	0.50	55.6	27.9	27.2	0.35	6.15	2.25	0.95	6.5	21	21	55	1157
30	ODP	284/6T	575	1770	94.1	0.84	5.9	11	14.8	16.9	31.7	25.6	11.9	26.2	12.2	0.64	2.4	6.3	0.50	52.3	24.7	27.2	0.35	6.15	2.25	0.95	6.5	21	21	55	1102
30	TEFC	284/6T	575	1765	93.6	0.84	5.9	11	14.8	16.9	31.7	26.1	11.1	26.2	12.2	0.64	2.4	6.3	0.50	55.6	27.9	27.2	0.35	6.15	2.25	0.95	6.5	21	21	55	1155
40	ODP	324T	208-230/460	1775	94.1	0.84	5.9	11	14.8	16.9	31.7	26.7	13.4	26.2	12.2	0.64	2.4	6.3	0.50	53.5	25.8	27.2	0.35	6.15	2.25	0.95	6.5	21	21	55	1167
40	TEFC	324/6T	208-230/460	1770	94.1	0.85	6.0	11	14.8	17.0	31.8	27.4	12.6	26.2	12.2	0.64	2.4	6.3	0.50	58.8	31.1	27.2	0.40	6.60	2.25	0.95	7.0	23	23	60	1331
40	ODP	324T	575	1775	94.1	0.84	5.9	11	14.8	16.9	31.7	26.7	13.4	26.2	12.2	0.64	2.4	6.3	0.50	53.5	25.8	27.2	0.35	6.15	2.25	0.95	6.5	21	21	55	1165
40	TEFC	324/6T	575	1770	94.1	0.85	6.0	11	14.8	17.0	31.8	27.4	12.6	26.2	12.2	0.64	2.4	6.3	0.50	58.8	31.1	27.2	0.40	6.60	2.25	0.95	7.0	23	23	60	1328
50	ODP	324/6T	208-230/460	1775	94.5	0.84	5.9	11	14.8	16.9	31.7	26.7	13.4	26.2	12.2	0.64	2.4	6.3	0.50	55.0	27.3	27.2	0.35	6.15	2.25	0.95	6.5	21	21	55	1230
50	TEFC	324/6T	208-230/460	1775	94.5	0.83	6.0	11	14.8	17.0	31.8	27.4	12.6	26.2	12.2	0.64	2.4	6.3	0.50	58.8	31.1	27.2	0.40	6.60	2.25	0.95	7.0	23	23	60	1352
50	ODP	324/6T	575	1775	94.5	0.84	5.9	11	14.8	16.9	31.7	26.7	13.4	26.2	12.2	0.64	2.4	6.3	0.50	55.0	27.3	27.2	0.35	6.15	2.25	0.95	6.5	21	21	55	1227
50	TEFC	324/6T	575	1775	94.5	0.83	6.0	11	14.8	17.0	31.8	27.4	12.6	26.2	12.2	0.64	2.4	6.3	0.50	58.8	31.1	27.2	0.40	6.60	2.25	0.95	7.0	23	23	60	1349
60	ODP	364/5T	208-230/460	1780	95	0.85	6.0	11	14.8	17.0	31.8	29.2	15.6	26.2	12.2	0.64	2.4	6.3	0.50	57.3	29.7	27.2	0.40	6.60	2.25	0.95	7.0	23	23	60	1497
60	TEFC	364/5T	208-230/460	1780	95	0.83	6.1	11	14.8	17.1	31.8	26.1	16.0	28.7	13.4	0.64	2.4	6.3	0.50	62.1	34.5	27.2	0.50	7.50	2.25	0.95	8.0	25	25	66	1723
60	ODP	364/5T	575	1780	95	0.85	6.0	11	14.8	17.0	31.8	29.2	15.6	26.2	12.2	0.64	2.4	6.3	0.50	57.3	29.7	27.2	0.40	6.60	2.25	0.95	7.0	23	23	60	1494
60	TEFC	364/5T	575	1780	95	0.83	6.1	11	14.8	17.1	31.8	26.1	16.0	28.7	13.4	0.64	2.4	6.3	0.50	62.1	34.5	27.2	0.50	7.50	2.25	0.95	8.0	25	25	66	1716

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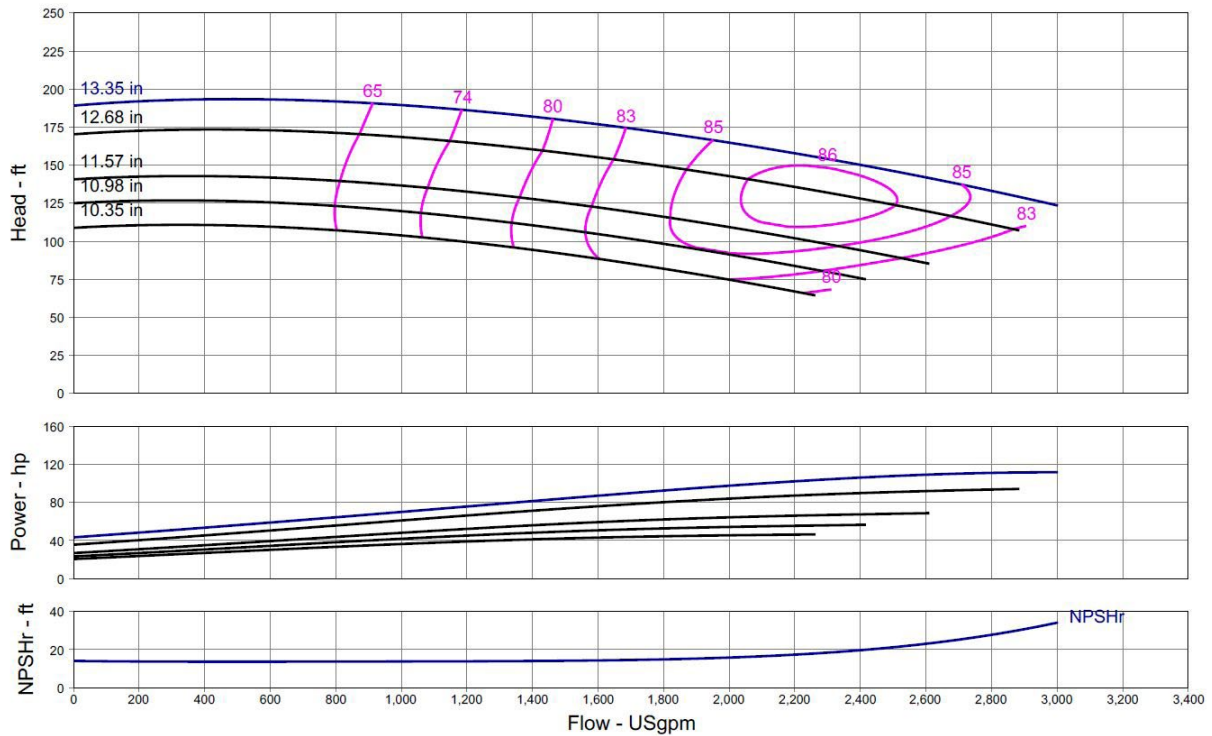


NL-HE 8 x 6 x 12 (4 Pole)



Project:	
Engineer:	
Contractor:	
Submitted By:	Date:
Approved By:	Date:

Tag #	Model #	Flow (USGPM)	Head (Feet)	HP	Enclosure	Frame	Cycle	Phase	Voltage	RPM
	NL-HE 8 x 6 x 12						60Hz	3		



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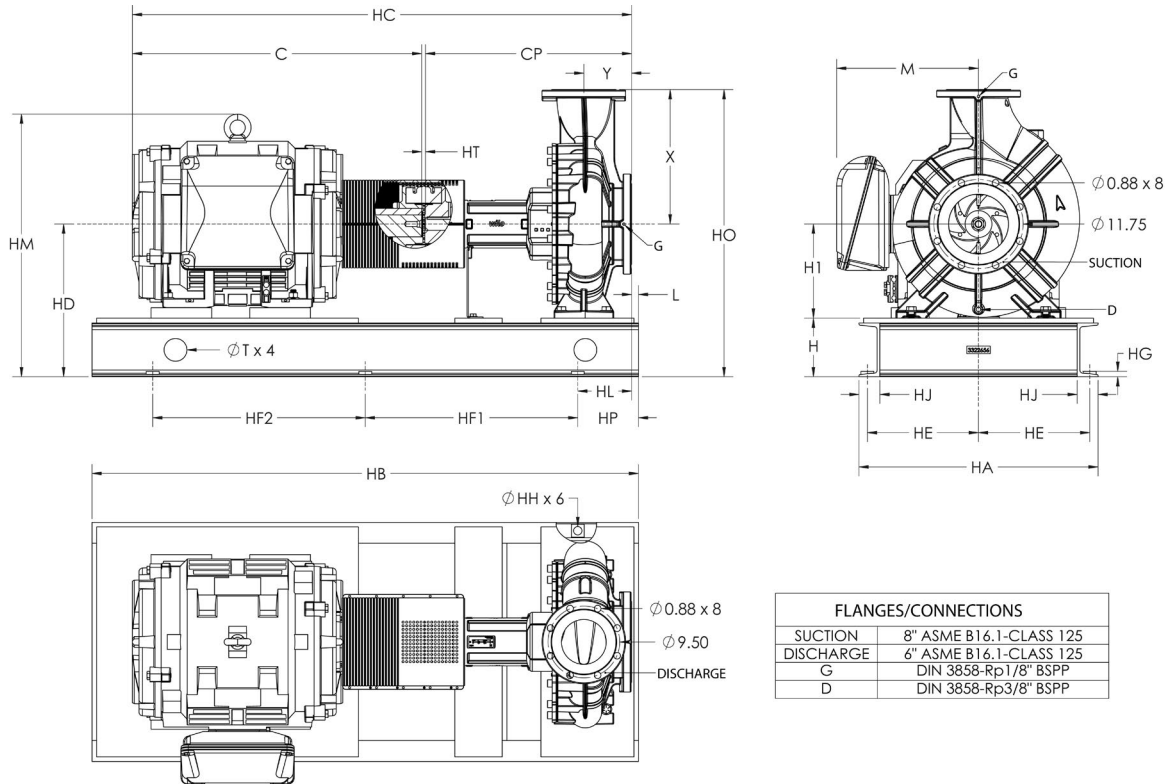
Submittal Data Sheet

Wilo NL-HE - Base Mounted End Suction Pumps



Dimensions & Weights

Wilo NL-HE



NL-HE 8 x 6 x 12

Motor							Dimensions - Inches																								
HP	ENCL	Frame	Volt	RPM	EFF	PF	H	H1	X	HD	HO	HM	M	HA	HE	HG	HJ	Y	HT	HC	C	CP	L	HL	T	HH	HP	HF1	HF2	HB	Wt. (lb)
50	ODP	324/6T	208-230/460	1775	94.5	0.84	6.0	11	15.7	17.0	32.8	26.7	13.4	27.7	12.9	0.64	2.4	6.3	0.50	55.0	27.3	27.2	0.40	5.60	2.25	0.95	6.0	22	22	56	1312
50	TEFC	324/6T	208-230/460	1775	94.5	0.83	6.0	11	15.7	17.0	32.8	27.4	12.6	27.7	12.9	0.64	2.4	6.3	0.50	58.8	31.1	27.2	0.50	6.50	2.25	0.95	7.0	24	24	62	1418
50	ODP	324/6T	575	1775	94.5	0.84	6.0	11	15.7	17.0	32.8	26.7	13.4	27.7	12.9	0.64	2.4	6.3	0.50	55.0	27.3	27.2	0.40	5.60	2.25	0.95	6.0	22	22	56	1309
50	TEFC	324/6T	575	1775	94.5	0.83	6.0	11	15.7	17.0	32.8	27.4	12.6	27.7	12.9	0.64	2.4	6.3	0.50	58.8	31.1	27.2	0.50	6.50	2.25	0.95	7.0	24	24	62	1415
60	ODP	364/5T	208-230/460	1780	95	0.85	6.0	11	15.7	17.0	32.8	29.2	15.6	27.7	12.9	0.64	2.4	6.3	0.50	57.3	29.7	27.2	0.40	5.60	2.25	0.95	6.0	22	22	56	1539
60	TEFC	364/5T	208-230/460	1780	95	0.83	6.0	11	15.7	17.0	32.8	26.0	16.0	27.7	12.9	0.64	2.4	6.3	0.50	62.1	34.5	27.2	0.50	6.50	2.25	0.95	7.0	24	24	62	1697
60	ODP	364/5T	575	1780	95	0.85	6.0	11	15.7	17.0	32.8	29.2	15.6	27.7	12.9	0.64	2.4	6.3	0.50	57.3	29.7	27.2	0.40	5.60	2.25	0.95	6.0	22	22	56	1536
60	TEFC	364/5T	575	1780	95	0.83	6.0	11	15.7	17.0	32.8	26.0	16.0	27.7	12.9	0.64	2.4	6.3	0.50	62.1	34.5	27.2	0.50	6.50	2.25	0.95	7.0	24	24	62	1690
75	ODP	364/5T	208-230/460	1780	95	0.85	6.0	11	15.7	17.0	32.8	29.2	15.6	27.7	12.9	0.64	2.4	6.3	0.50	57.3	29.7	27.2	0.40	5.60	2.25	0.95	6.0	22	22	56	1586
75	TEFC	364/5T	208-230/460	1780	95.4	0.83	6.0	11	15.7	17.0	32.8	26.0	16.0	27.7	12.9	0.64	2.4	6.3	0.50	62.1	34.5	27.2	0.50	6.50	2.25	0.95	7.0	24	24	62	1760
75	ODP	364/5T	575	1780	95	0.85	6.0	11	15.7	17.0	32.8	29.2	15.6	27.7	12.9	0.64	2.4	6.3	0.50	57.3	29.7	27.2	0.40	5.60	2.25	0.95	6.0	22	22	56	1583
75	TEFC	364/5T	575	1780	95.4	0.83	6.0	11	15.7	17.0	32.8	26.0	16.0	27.7	12.9	0.64	2.4	6.3	0.50	62.1	34.5	27.2	0.50	6.50	2.25	0.95	7.0	24	24	62	1756
100	ODP	404/5T	208-230/460	1780	95.4	0.86	6.0	11	15.7	17.0	32.8	29.2	15.6	27.7	12.9	0.64	2.4	6.3	0.50	61.8	34.1	27.2	0.50	6.50	2.25	0.95	7.0	24	24	62	1786
100	TEFC	404/5T	208-230/460	1780	95.4	0.87	7.7	11	15.7	18.7	34.5	28.3	16.0	31.5	14.7	0.72	2.8	6.3	0.50	67.4	39.7	27.2	0.90	7.10	3.00	1.10	8.0	28	28	72	2246
100	ODP	404/5T	575	1780	95.4	0.86	6.0	11	15.7	17.0	32.8	29.2	15.6	27.7	12.9	0.64	2.4	6.3	0.50	61.8	34.1	27.2	0.50	6.50	2.25	0.95	7.0	24	24	62	1780
100	TEFC	404/5T	575	1780	95.4	0.87	7.7	11	15.7	18.7	34.5	28.3	16.0	31.5	14.7	0.72	2.8	6.3	0.50	67.4	39.7	27.2	0.90	7.10	3.00	1.10	8.0	28	28	72	2239
125	ODP	404/5T	208-230/460	1780	95.4	0.86	6.0	11	15.7	17.0	32.8	29.2	15.6	27.7	12.9	0.64	2.4	6.3	0.50	61.8	34.1	27.2	0.50	6.50	2.25	0.95	7.0	24	24	62	1862
125	TEFC	444/5T	208-230/460	1780	95.4	0.85	7.7	11	15.7	18.7	34.5	30.5	18.6	31.5	14.7	0.72	2.8	6.3	1.40	73.7	45.1	27.2	0.90	7.10	3.00	1.10	8.0	28	28	72	2697
125	ODP	404/5T	575	1780	95.4	0.86	6.0	11	15.7	17.0	32.8	29.2	15.6	27.7	12.9	0.64	2.4	6.3	0.50	61.8	34.1	27.2	0.50	6.50	2.25	0.95	7.0	24	24	62	1857
125	TEFC	444/5T	575	1780	95.4	0.85	7.7	11	15.7	18.7	34.5	30.5	18.6	31.5	14.7	0.72	2.8	6.3	1.40	73.7	45.1	27.2	0.90	7.10	3.00	1.10	8.0	28	28	72	2693

Submittal Data Sheet

Wilo NL-HE – Base Mounted End Suction Pumps

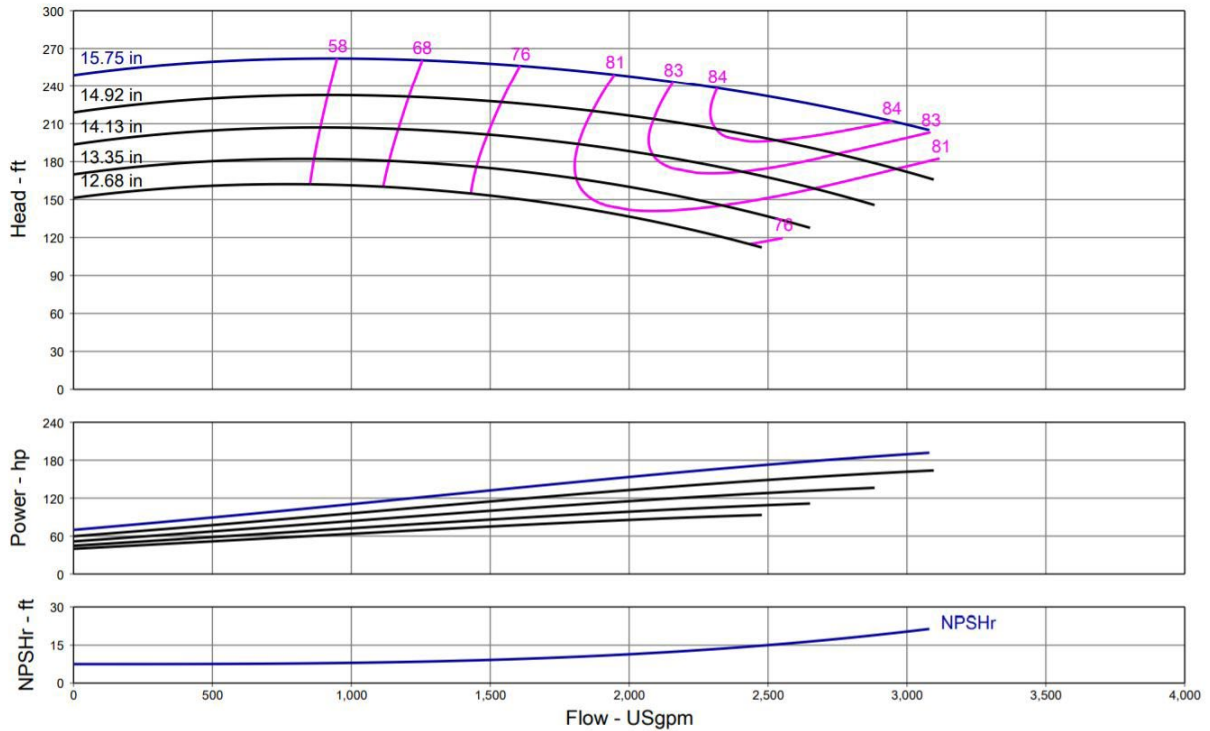


NL-HE 8 x 6 x 16 (4 Pole)



Project:	
Engineer:	
Contractor:	
Submitted By:	Date:
Approved By:	Date:

Tag #	Model #	Flow (USGPM)	Head (Feet)	HP	Enclosure	Frame	Cycle	Phase	Voltage	RPM
	NL-HE 8 x 6 x 16						60Hz	3		



Technical Data	
PEI	
0.96	
Approved Fluids	
Heating Water	
Cooling and cold water	
Pressure /Temperature Ratings	
Ambient Temperature:	+5 °F to +104 °F (-15 °C to +40 °C)
Max Working Pressure & Temperature:	189 psi (up to 284 °F Fluid Temperature) 232 psi (up to 248 °F Fluid Temperature)
Water-Glycol Mixtures for 20-40% glycol and fluid temp ≤ 104°F (40°C)	

Materials of Construction	
Pump Housing	EN-GL-250 Gray Cast Iron
Impeller	EN 1.4408 Cast Stainless Steel
Impeller (optional)	CC480K Bronze or EN-GJL 1030 Cast Iron
Pump Shaft	1.4021 + QT700 Stainless Steel
Mechanical Seal	Carbon/silicon carbide/EPDM (E1)
Other Mechanical Seals	Avail. on request
Additional Spacer Coupling	Avail. on request
Other:	

Approval Stamp

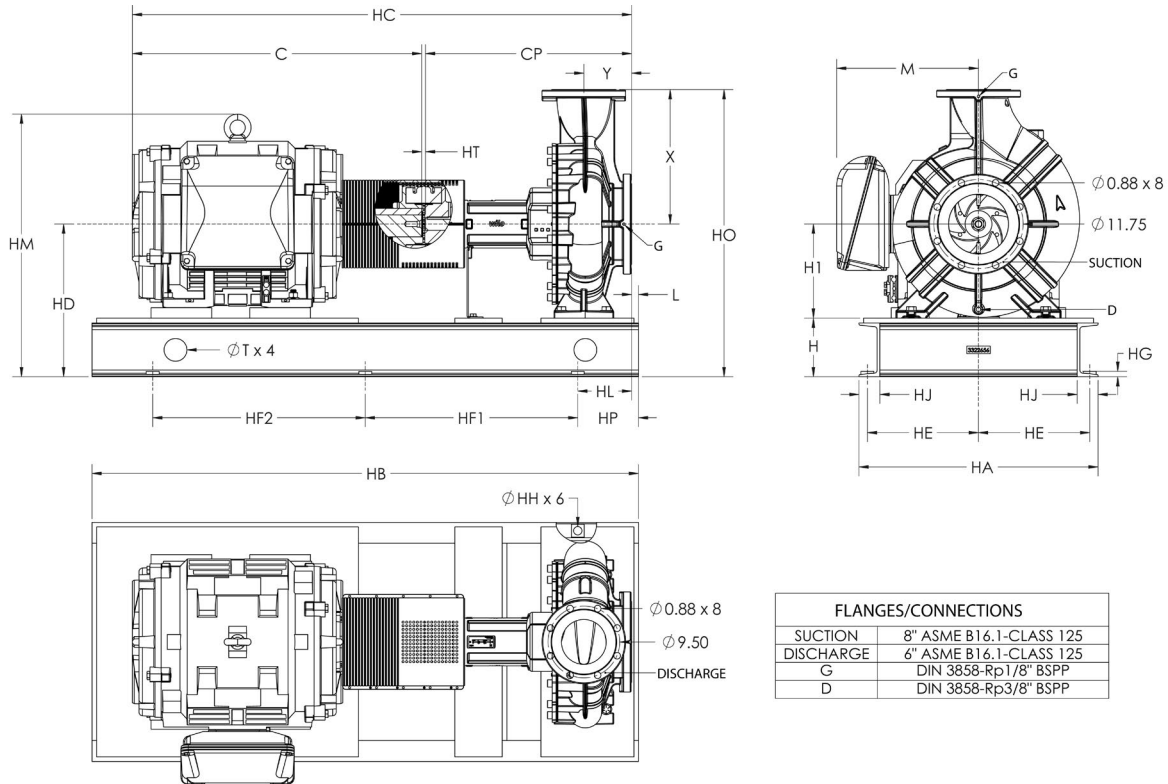
Submittal Data Sheet

Wilo NL-HE - Base Mounted End Suction Pumps



Dimensions & Weights

Wilo NL-HE



NL-HE 8 x 6 x 16

Motor							Dimensions - Inches																								
HP	ENCL	Frame	Volt	RPM	EFF	PF	H	H1	X	HD	HO	HM	M	HA	HE	HG	HJ	Y	HT	HC	C	CP	L	HL	T	HH	HP	HF1	HF2	HB	Wt. (lb)
100	ODP	404/5T	208-230/460	1780	95.4	0.86	6.0	12.4	17.7	18.4	36.1	30.6	15.6	27.7	12.9	0.64	2.4	6.3	0.50	61.8	34.1	27.2	0.50	6.50	2.25	0.95	7.0	24	24	62	1904
100	TEFC	404/5T	208-230/460	1780	95.4	0.87	7.7	12.4	17.7	20.1	37.8	29.7	16.0	31.5	14.7	0.72	2.8	6.3	0.50	67.4	39.7	27.2	0.90	7.10	3.00	1.10	8.0	28	28	72	2364
100	ODP	404/5T	575	1780	95.4	0.86	6.0	12.4	17.7	18.4	36.1	30.6	15.6	27.7	12.9	0.64	2.4	6.3	0.50	61.8	34.1	27.2	0.50	6.50	2.25	0.95	7.0	24	24	62	1898
100	TEFC	404/5T	575	1780	95.4	0.87	7.7	12.4	17.7	20.1	37.8	29.7	16.0	31.5	14.7	0.72	2.8	6.3	0.50	67.4	39.7	27.2	0.90	7.10	3.00	1.10	8.0	28	28	72	2357
125	ODP	404/5T	208-230/460	1780	95.4	0.86	6.0	12.4	17.7	18.4	36.1	30.6	15.6	27.7	12.9	0.64	2.4	6.3	0.50	61.8	34.1	27.2	0.50	6.50	2.25	0.95	7.0	24	24	62	1980
125	TEFC	444/5T	208-230/460	1780	95.4	0.85	7.7	12.4	17.7	20.1	37.8	31.9	18.6	31.5	14.7	0.72	2.8	6.3	1.40	73.7	45.1	27.2	0.90	7.10	3.00	1.10	8.0	28	28	72	2818
125	ODP	404/5T	575	1780	95.4	0.86	6.0	12.4	17.7	18.4	36.1	30.6	15.6	27.7	12.9	0.64	2.4	6.3	0.50	61.8	34.1	27.2	0.50	6.50	2.25	0.95	7.0	24	24	62	1975
125	TEFC	444/5T	575	1780	95.4	0.85	7.7	12.4	17.7	20.1	37.8	31.9	18.6	31.5	14.7	0.72	2.8	6.3	1.40	73.7	45.1	27.2	0.90	7.10	3.00	1.10	8.0	28	28	72	2814
150	ODP	444/5T	460	1784	95.8	0.85	7.7	12.4	17.7	20.1	37.8	34.6	18.7	31.5	14.7	0.72	2.8	6.3	1.40	66.9	38.3	27.2	0.90	7.10	3.00	1.10	8.0	28	28	72	2554
150	TEFC	444/5T	208-230/460	1780	95.8	0.85	7.7	12.4	17.7	20.1	37.8	31.9	18.6	31.5	14.7	0.72	2.8	6.3	1.40	73.7	45.1	27.2	0.90	7.10	3.00	1.10	8.0	28	28	72	3028
150	ODP	444/5T	575	1784	95.8	0.85	7.7	12.4	17.7	20.1	37.8	34.6	18.7	31.5	14.7	0.72	2.8	6.3	1.40	66.9	38.3	27.2	0.90	7.10	3.00	1.10	8.0	28	28	72	2550
150	TEFC	444/5T	575	1780	95.8	0.85	7.7	12.4	17.7	20.1	37.8	31.9	18.6	31.5	14.7	0.72	2.8	6.3	1.40	73.7	45.1	27.2	0.90	7.10	3.00	1.10	8.0	28	28	72	3019
200	ODP	444/5T	460	1783	95.8	0.84	7.7	12.4	17.7	20.1	37.8	34.6	18.7	31.5	14.7	0.72	2.8	6.3	1.40	68.4	39.8	27.2	0.90	7.10	3.00	1.10	8.0	28	28	72	2629
200	TEFC	445/7T	208-230/460	1785	96.2	0.85	7.7	12.4	17.7	20.1	37.8	36.6	20.6	32.5	15.2	0.72	2.8	6.3	1.40	77.2	48.7	27.2	0.90	8.10	3.00	1.10	9.0	31	31	80	3601
200	ODP	444/5T	575	1780	95	0.84	7.7	12.4	17.7	20.1	37.8	34.6	18.7	31.5	14.7	0.72	2.8	6.3	1.40	68.4	39.8	27.2	0.90	7.10	3.00	1.10	8.0	28	28	72	2629
200	TEFC	445/7T	575	1785	96.2	0.85	7.7	12.4	17.7	20.1	37.8	36.6	20.6	32.5	15.2	0.72	2.8	6.3	1.40	77.2	48.7	27.2	0.90	8.10	3.00	1.10	9.0	31	31	80	3584