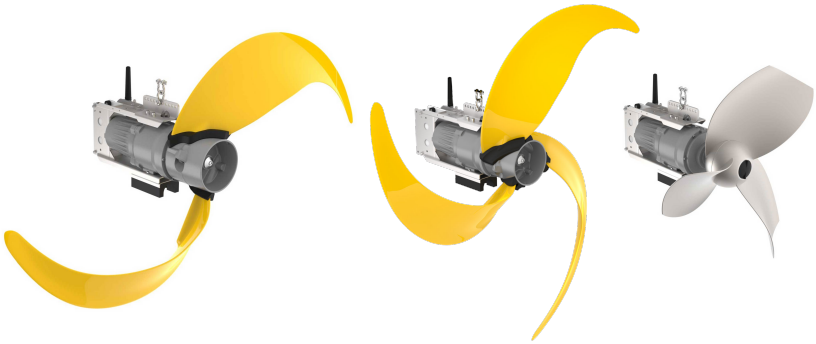
FLYGT xylem

Technical Specification
90066601_1.0

EN



Flygt SR 4410, SR 4430, SR 4460

50 Hz

xylem

1 Technical specification

1.1 Products included

EN

Mixer	Explosion-proof drive unit	Induction motor	IE3 motor classification
4410.800		X	X
4430.010		X	
4430.800		X	X
4460.010		X	
4460.090	X	X	
4460.800		X	X
4460.820		X	X

No warm-liquid version is available.

1.2 Product description

Usage

Mixer intended for mixing liquid and sludge containing fibers and solids where very high thrust in relation to consumed power is wanted. The mixer is designed to be operated completely immersed in the liquid.

Hydraulic unit

Thin-sectioned, non-clogging, backswept propeller with double-curved blades.

Mixer	Polyurethane propeller blades on a cast iron hub	Stainless steel, three-bladed propeller
4410.800	X	
4430.010/.800	X	
4460.010/.090	X	X
4460.800	X	
4460.820		X

Installation

- Tripod guide bar system, 100×100 mm (4×4 in)
- Single guide bar system, 100×100 mm (4×4 in), or 100×150 mm (4×6 in)

  Only applicable for mixers with three-bladed propellers and specific propeller diameters.
  - 4410 with a propeller diameter of 1.4 m (55 in), 1.6 m (63 in), 1.8 m (71 in), 2.0 m (79 in), and 2.2 m (87 in)
  - 4430 with a propeller diameter of 1.4 m (55 in) and 1.6 m (63 in)
  - 4460 with a SS propeller diameter of 1.0 m (39 in) and 1.25 m (49 in)

Monitoring equipment

Mixer	Thermal contacts opening temperature 125°C (257°F)	Thermal contacts opening temperature 140°C (284°F)	Leakage sensor in the stator housing (FLS), optional	Leakage sensor in the oil housing (KOD), optional
4410.800	X		X	X
4430.010	X		X	X
4430.800	X		X	X
4460.010	X		X	X
4460.090	X		X	
4460.800	X		X	X

Mixer	Thermal contacts opening temperature 125°C (257°F)	Thermal contacts opening temperature 140°C (284°F)	Leakage sensor in the stator housing (FLS), optional	Leakage sensor in the oil housing (KOD), optional
4460.820		X		

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Cables

- SUBCAB heavy-duty submersible cable
- SUBCAB screened heavy-duty submersible cable

Cable length

Cable type	Length m (ft)
SUBCAB heavy-duty submersible cable	10 m (30 ft)
	16 m (53 ft)
	20 m (65 ft)
SUBCAB screened heavy-duty submersible cable	10 m (30 ft)
	20 m (65 ft)

Materials

Item	Material
Gear housing	Cast iron, ASTM 35B
Stator housing	Cast iron, ASTM 35B
Oil housing	Cast iron, ASTM 35B
Shaft	Stainless steel, ASTM/AISI 431
Propeller blades	4410, 4430: Reinforced polyurethane plastic 4460: • Reinforced polyurethane plastic • Stainless steel EN 1.4462
Hub	4410, 4430: Cast iron, ASTM 35B 4460: • Cast iron, ASTM 35B • Stainless steel EN 1.4404/ASTM 316L
Lifting device	Stainless steel, ASTM 316L
Stand unit	Stainless steel, ASTM 316L
Oil, oil housing	Paraffin oil ISO VG32
Oil, gear housing	• Mineral oil with additives, viscosity close to ISO VG 220 • 4460 optional configuration up to 60°C (140°F): Synthetic oil with additives, viscosity close to ISO VG 680
O-rings	Nitrile rubber

Surface treatment

Two-component top coating on primer.

- Standard version
- Optional corrosion resistant version
- Optional MBBR wear resistant version

Color: Navy Gray on cast iron parts.

Shaft seals

Inner seals	Outer seal
Lip seals	• Corrosion resistant cemented carbide (WCCR) / WCCR • Silicon carbide (RSiC) / RSiC

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Options and accessories

- Installation systems
- Lifting equipment
- Special cables
- Zinc anodes
- Electrical equipment such as control panels, monitoring equipment, variable frequency drives

1.3 Dimensions and weight

Dimensions

See the dimensional drawing.

Weight

Mixer	Weight, kg (lbs)
4410.800	290 (639.3)
4430.010	280 (617.3)
4430.800	310 (683.4)
4460.010	320 (705.5)
4460.090	320 (705.5)
4460.800	330 (727.5)
4460.820	290 (639.3)

1.4 Application limits

Data	Description
Liquid temperature	Maximum 40°C (104°F) 4460: Optional configuration up to 60°C (140°F)
Liquid viscosity	Maximum 5000 cp
pH of the mixed liquid	6–11
Chlorides in mixed liquid	Maximum 220 ppm
Depth of immersion	Maximum 20 m (65 ft)

Biogas application limits for 4460.820, 12 kW

Data	Description
Feed organic dry matter (oDM) content	6% – 12%
Feed oDM load	≤ 5 kg/day/m^3 digester volume
Feed fibres cut to length	≤ 5 cm
Feed debris content	None
Feed manure type	Cow, horse, pig
Feedstock not allowed	Dry chicken dunk
Digester retention time	≥ 30 days
Mixers in operation	All

1.5 Motor data

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Feature	Description
Motor type	4410: Squirrel-cage 4– or 6–pole induction motor 4430: Squirrel-cage 2– or 4–pole induction motor 4460: Squirrel-cage 2– or 4–pole induction motor
Frequency	50 Hz
Supply	3-phase
Starting method	• Direct on-line • Star-delta • Variable frequency drive (VFD)
Maximum starts for each hour	30 evenly spaced starts for each hour
Voltage variation	• Continuously running: Maximum ±5% • Intermittently running: Maximum ±10%
Voltage imbalance between the phases	Maximum of 2%
Stator insulation class	H (180°C [356°F])

Motor encapsulation

Motor encapsulation is in accordance with IP68.

1.6 Motor rating

Table 1: 400V, 50 Hz, 3-phase

Product	Propeller diameter, maximum mm	Rotations per minute, rpm	Poles	Rated Power, kW	Rated Current, A	Starting Current, A	Power factor cosφ
4410.800	2500	1465	4	2.3	4.7	30	0.81
4410.800	2500	960	6	0.9	2.3	9.1	0.71
4430.010	2500	1420	4	4.3	9.1	38	0.84
4430.010	1600	2875	2	4.4	8.5	65	0.92
4430.800	2500	1475	4	4.3	8.8	68	0.79
4460.010/.090	2500	1455	4	5.7	12	78	0.84
4460.010/.090	1300	2900	2	7.5	14	116	0.91
4460.800	2500	1470	4	5.7	11.1	83	0.82
4460.820	1250	2940	2	7.5	13	144	0.93
4460.820	1250	2930	2	12.0	22	214	0.86

1.7 Thrust data

Performance measurement standard

Performance according to ISO 21630:2007.

SR 4410.800

Table 2: 4-pole 3-phase, 2.3 kW, 2-bladed propeller (1 of 2)

Speed, rpm	Diameter: 1.4 m			Diameter: 1.6 m			Diameter: 1.8 m		
	F_{thrust} N	P_{in} kW	Prop. code	F_{thrust} N	P_{in} kW	Prop. code	F_{thrust} N	P_{in} kW	Prop. code
26	410	0.65	447	600	0.76	445	850	0.92	443
28	480	0.73	407	700	0.88	405	970	1.08	403
31	570	0.86	457	830	1.06	455	1150	1.30	453
33	650	1.00	417	950	1.24	415	1330	1.56	413

Speed, rpm	Diameter: 1.4 m			Diameter: 1.6 m			Diameter: 1.8 m		
	F_{thrust} N	P_{in} kW	Prop. code	F_{thrust} N	P_{in} kW	Prop. code	F_{thrust} N	P_{in} kW	Prop. code
36	790	1.24	467	1150	1.55	465	1600	1.98	463
41	980	1.60	427	1430	2.07	425	-	-	-
42	1070	1.79	477	1550	2.31	475	-	-	-
47	1330	2.38	437	-	-	-	-	-	-

Table 3: 4-pole 3-phase, 2.3 kW, 2-bladed propeller (2 of 2)

Speed, rpm	Diameter: 2.0 m			Diameter: 2.2 m			Diameter: 2.5 m		
	F_{thrust} N	P_{in} kW	Prop. code	F_{thrust} N	P_{in} kW	Prop. code	F_{thrust} N	P_{in} kW	Prop. code
26	1090	1.10	442	1370	1.19	441	1680	1.35	440
28	1260	1.29	402	1570	1.41	401	1910	1.58	400
31	1490	1.58	452	1850	1.77	451	2210	1.91	450
33	1710	1.89	412	2110	2.12	411	2490	2.27	410
36	2050	2.42	462	-	-	-	-	-	-

Table 4: 4-pole 3-phase, 2.3 kW, 3-bladed propeller (1 of 2)

Speed, rpm	Diameter: 1.4 m			Diameter: 1.6 m			Diameter: 1.8 m		
	F_{thrust} N	P_{in} kW	Prop. code	F_{thrust} N	P_{in} kW	Prop. code	F_{thrust} N	P_{in} kW	Prop. code
26	540	0.83	26243140	770	0.98	26243160	1070	1.21	26243180
28	620	0.97	28203140	890	1.17	28203160	1230	1.42	28203180
31	740	1.17	31253140	1060	1.42	31253160	1450	1.74	31253180
33	850	1.36	33213140	1210	1.67	33213160	1660	2.09	33213180
36	1020	1.71	36263140	1460	2.14	36263160	-	-	-
41	1270	2.26	41223140	-	-	-	-	-	-
42	1380	2.53	42273140	-	-	-	-	-	-

Table 5: 4-pole 3-phase, 2.3 kW, 3-bladed propeller (2 of 2)

Speed, rpm	Diameter: 2.0 m			Diameter: 2.2 m			Diameter: 2.5 m		
	F_{thrust} N	P_{in} kW	Prop. code	F_{thrust} N	P_{in} kW	Prop. code	F_{thrust} N	P_{in} kW	Prop. code
26	1360	1.42	26243200	1680	1.54	26243220	2000	1.69	26243250
28	1560	1.69	28203200	1920	1.85	28203220	2260	2.01	28203250
31	1840	2.10	31253200	2250	2.31	31253220	2610	2.46	31253250
33	2110	2.53	33213200	-	-	-	-	-	-

Table 6: 6-pole 3-phase, 0.9 kW, 2-bladed propeller (1 of 2)

Speed, rpm	Diameter: 1.4 m			Diameter: 1.6 m			Diameter: 1.8 m		
	F_{thrust} N	P_{in} kW	Prop. code	F_{thrust} N	P_{in} kW	Prop. code	F_{thrust} N	P_{in} kW	Prop. code
18	180	0.29	647	270	0.33	645	370	0.38	643
19	210	0.32	607	310	0.37	605	430	0.44	603
20	250	0.37	657	360	0.44	655	510	0.52	653
22	290	0.42	617	420	0.50	615	580	0.60	613
24	350	0.51	667	500	0.61	665	700	0.73	663
27	430	0.63	627	620	0.77	625	860	0.95	623

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Table 7: 6-pole 3-phase, 0.9 kW, 2-bladed propeller (2 of 2)

Speed, rpm	Diameter: 2.0 m			Diameter: 2.2 m			Diameter: 2.5 m		
	F_{thrust} N	P_{in} kW	Prop. code	F_{thrust} N	P_{in} kW	Prop. code	F_{thrust} N	P_{in} kW	Prop. code
18	480	0.44	642	610	0.46	641	780	0.54	640
19	550	0.51	602	700	0.53	601	890	0.62	600
20	650	0.61	652	820	0.64	651	1040	0.75	650
22	750	0.70	612	940	0.75	611	1180	0.88	610
24	890	0.87	662	1120	0.95	661	1380	1.10	660

Table 8: 6-pole 3-phase, 0.9 kW, 3-bladed propeller (1 of 2)

Speed, rpm	Diameter: 1.4 m			Diameter: 1.6 m			Diameter: 1.8 m		
	F_{thrust} N	P_{in} kW	Prop. code	F_{thrust} N	P_{in} kW	Prop. code	F_{thrust} N	P_{in} kW	Prop. code
18	240	0.36	18243140	340	0.42	18243160	470	0.50	18243180
19	270	0.41	19203140	390	0.49	19203160	540	0.57	19203180
20	320	0.49	20253140	460	0.57	20253160	640	0.67	20253180
22	370	0.56	22213140	530	0.66	22213160	730	0.78	22213180
24	450	0.67	24263140	640	0.80	24263160	870	0.98	24263180
27	550	0.85	27223140	780	1.05	27223160	-	-	-
28	600	0.94	28273140	-	-	-	-	-	-

Table 9: 6-pole 3-phase, 0.9 kW, 3-bladed propeller (2 of 2)

Speed, rpm	Diameter: 2.0 m			Diameter: 2.2 m			Diameter: 2.5 m		
	F_{thrust} N	P_{in} kW	Prop. code	F_{thrust} N	P_{in} kW	Prop. code	F_{thrust} N	P_{in} kW	Prop. code
18	590	0.55	18243200	740	0.57	18243220	930	0.61	18243250
19	680	0.65	19203200	850	0.67	19203220	1060	0.72	19203250
20	800	0.78	20253200	1000	0.81	20253220	1230	0.89	20253250
22	920	0.92	22213200	1140	0.97	22213220	1380	1.07	22213250

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Table 10: 4-pole 3-phase, 4.3 kW, 2-bladed propeller (1 of 2)

Speed, rpm	Diameter: 1.4 m			Diameter: 1.6 m			Diameter: 1.8 m		
	F_{thrust} N	P_{in} kW	Prop. code	F_{thrust} N	P_{in} kW	Prop. code	F_{thrust} N	P_{in} kW	Prop. code
26	410	0.70	447	600	0.84	445	850	1.00	443
28	480	0.80	407	700	0.96	405	970	1.14	403
31	570	0.94	457	830	1.13	455	1160	1.36	453
33	650	1.08	417	950	1.30	415	1330	1.60	413
36	790	1.29	467	1150	1.60	465	1600	2.03	463
41	990	1.65	427	1430	2.12	425	1990	2.72	423
42	1070	1.84	477	1560	2.37	475	2160	3.07	473
47	1340	2.43	437	1930	3.18	435	2660	4.20	433

Table 11: 4-pole 3-phase, 4.3 kW, 2-bladed propeller (2 of 2)

Speed, rpm	Diameter: 2.0 m			Diameter: 2.2 m			Diameter: 2.5 m		
	F_{thrust} N	P_{in} kW	Prop. code	F_{thrust} N	P_{in} kW	Prop. code	F_{thrust} N	P_{in} kW	Prop. code
26	1090	1.16	442	1380	1.26	441	1690	1.40	440
28	1260	1.34	402	1580	1.47	401	1910	1.63	400
31	1490	1.63	452	1850	1.81	451	2220	1.98	450

Speed, rpm	Diameter: 2.0 m			Diameter: 2.2 m			Diameter: 2.5 m		
	F_{thrust} N	P_{in} kW	Prop. code	F_{thrust} N	P_{in} kW	Prop. code	F_{thrust} N	P_{in} kW	Prop. code
33	1710	1.94	412	2110	2.16	411	2500	2.32	410
36	2060	2.48	462	2510	2.75	461	2920	2.87	460
41	2550	3.34	422	3050	3.68	421	3480	3.71	420
42	2760	3.77	472	3290	4.13	471	3720	4.10	470

Table 12: 4-pole 3-phase, 4.3 kW, 3-bladed propeller (1 of 2)

Speed, rpm	Diameter: 1.4 m			Diameter: 1.6 m			Diameter: 1.8 m		
	F_{thrust} N	P_{in} kW	Prop. code	F_{thrust} N	P_{in} kW	Prop. code	F_{thrust} N	P_{in} kW	Prop. code
26	540	0.92	26243140	780	1.08	26243160	1070	1.27	26243180
28	620	1.04	28203140	890	1.23	28203160	1230	1.47	28203180
31	740	1.23	31253140	1060	1.47	31253160	1460	1.80	31253180
33	850	1.41	33213140	1220	1.73	33213160	1670	2.15	33213180
36	1020	1.75	36263140	1470	2.19	36263160	2010	2.74	36263180
41	1270	2.30	41223140	1820	2.91	41223160	2480	3.71	41223180
42	1390	2.57	42273140	1980	3.27	42273160	2680	4.19	42273180
47	1710	3.43	47233140	2430	4.44	47233160	-	-	-

Table 13: 4-pole 3-phase, 4.3 kW, 3-bladed propeller (2 of 2)

Speed, rpm	Diameter: 2.0 m			Diameter: 2.2 m			Diameter: 2.5 m		
	F_{thrust} N	P_{in} kW	Prop. code	F_{thrust} N	P_{in} kW	Prop. code	F_{thrust} N	P_{in} kW	Prop. code
26	1360	1.47	26243200	1680	1.59	26243220	2000	1.73	26243250
28	1560	1.74	28203200	1920	1.90	28203220	2270	2.05	28203250
31	1850	2.15	31253200	2260	2.35	31253220	2620	2.51	31253250
33	2120	2.57	33213200	2570	2.82	33213220	2950	2.97	33213250
36	2530	3.30	36263200	3040	3.61	36263220	3440	3.70	36263250
41	3110	4.49	41223200	3670	4.87	41223220	4080	4.78	41223250
42	3360	5.08	42273200	-	-	-	-	-	-

Table 14: 2-pole 3-phase, 4.4 kW, 2-bladed propeller

Speed, rpm	Diameter: 1.4 m			Diameter: 1.6 m		
	F_{thrust} N	P_{in} kW	Prop. code	F_{thrust} N	P_{in} kW	Prop. code
52	1610	3.11	247	2320	4.12	245
56	1840	3.74	207	-	-	-

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Table 15: 4-pole 3-phase, 4.3 kW, 2-bladed propeller (1 of 2)

Speed, rpm	Diameter: 1.4 m			Diameter: 1.6 m			Diameter: 1.8 m		
	F_{thrust} N	P_{in} kW	Prop. code	F_{thrust} N	P_{in} kW	Prop. code	F_{thrust} N	P_{in} kW	Prop. code
26	420	0.73	447	610	0.86	445	850	1.02	443
28	480	0.82	407	700	0.98	405	980	1.16	403
30	550	0.93	30302140	800	1.11	30302160	1130	1.33	30302180
31	570	0.96	457	830	1.14	455	1170	1.38	453
32	630	1.04	32312140	910	1.25	32312160	1280	1.53	32312180
33	660	1.09	417	960	1.31	415	1350	1.62	413
35	710	1.17	35322140	1040	1.42	35322160	1450	1.78	35322180
36	750	1.24	36332140	1100	1.52	36332160	1540	1.92	36332180

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Speed, rpm	Diameter: 1.4 m			Diameter: 1.6 m			Diameter: 1.8 m		
	F_{thrust} N	P_{in} kW	Prop. code	F_{thrust} N	P_{in} kW	Prop. code	F_{thrust} N	P_{in} kW	Prop. code
37	800	1.31	467	1170	1.62	465	1630	2.06	463
38	860	1.41	38342140	1250	1.77	38342160	1750	2.26	38342180
39	900	1.48	39352140	1310	1.87	39352160	1830	2.38	39352180
40	970	1.62	40362140	1420	2.07	40362160	1980	2.64	40362180
41	1000	1.68	427	1460	2.15	425	2040	2.75	423
43	1090	1.87	477	1590	2.39	475	2230	3.09	473
45	1220	2.15	45372140	1790	2.77	45372160	2490	3.62	45372180
48	1370	2.45	437	1990	3.21	435	2770	4.24	433

Table 16: 4-pole 3-phase, 4.3 kW, 2-bladed propeller (2 of 2)

Speed, rpm	Diameter: 2.0 m			Diameter: 2.2 m			Diameter: 2.5 m		
	F_{thrust} N	P_{in} kW	Prop. code	F_{thrust} N	P_{in} kW	Prop. code	F_{thrust} N	P_{in} kW	Prop. code
26	1100	1.18	442	1390	1.28	441	1700	1.41	440
28	1270	1.36	402	1600	1.49	401	1930	1.65	400
30	1460	1.58	30302200	1820	1.75	30302220	2180	1.92	30302250
31	1510	1.65	452	1880	1.84	451	2250	2.00	450
32	1660	1.85	32312200	2050	2.06	32312220	2440	2.21	32312250
33	1740	1.97	412	2150	2.19	411	2540	2.34	410
35	1870	2.16	35322200	2310	2.39	35322220	2710	2.53	35322250
36	1990	2.33	36332200	2440	2.58	36332220	2850	2.70	36332250
37	2110	2.50	462	2570	2.77	461	2990	2.88	460
38	2260	2.74	38342200	2750	3.04	38342220	3170	3.12	38342250
39	2360	2.90	39352200	2860	3.21	39352220	3280	3.27	39352250
40	2550	3.23	40362200	3070	3.56	40362220	3500	3.58	40362250
41	2630	3.37	422	3160	3.70	421	3590	3.70	420
43	2870	3.80	472	3420	4.15	471	3850	4.08	470
45	3210	4.46	45372200	-	-	-	4200	4.62	45372250

Table 17: 4-pole 3-phase, 4.3 kW, 3-bladed propeller (1 of 2)

Speed, rpm	Diameter: 1.4 m			Diameter: 1.6 m			Diameter: 1.8 m		
	F_{thrust} N	P_{in} kW	Prop. code	F_{thrust} N	P_{in} kW	Prop. code	F_{thrust} N	P_{in} kW	Prop. code
26	540	0.94	26243140	780	1.09	26243160	1080	1.28	26243180
28	630	1.06	28203140	900	1.25	28203160	1250	1.49	28203180
30	720	1.20	30303140	1030	1.43	30303160	1420	1.75	30303180
31	740	1.24	31253140	1070	1.49	31253160	1480	1.83	31253180
32	820	1.36	32313140	1180	1.65	32313160	1620	2.05	32313180
33	860	1.43	33213140	1240	1.75	33213160	1700	2.18	33213180
35	920	1.55	35323140	1330	1.92	35323160	1830	2.38	35323180
36	980	1.66	36333140	1410	2.07	36333160	1950	2.57	36333180
37	1040	1.78	37263140	1500	2.21	37263160	2060	2.76	37263180
38	1120	1.94	38343140	1610	2.41	38343160	2210	3.04	38343180
39	1160	2.04	39353140	1680	2.55	39353160	2310	3.22	39353180
40	1260	2.24	40363140	1810	2.82	40363160	2500	3.58	40363180
41	1300	2.33	41223140	1870	2.93	41223160	2570	3.74	41223180
43	1420	2.59	43273140	2040	3.29	43273160	2800	4.23	43273180
45	1590	2.99	45373140	2280	3.84	45373160	-	-	-
48	1770	3.44	48233140	2540	4.47	48233160	-	-	-

Table 18: 4-pole 3-phase, 4.3 kW, 3-bladed propeller (2 of 2)

Speed, rpm	Diameter: 2.0 m			Diameter: 2.2 m			Diameter: 2.5 m		
	F_{thrust} N	P_{in} kW	Prop. code	F_{thrust} N	P_{in} kW	Prop. code	F_{thrust} N	P_{in} kW	Prop. code
26	1380	1.49	26243200	1700	1.61	26243220	2030	1.76	26243250
28	1590	1.76	28203200	1950	1.92	28203220	2300	2.08	28203250
30	1810	2.08	30303200	2220	2.27	30303220	2590	2.42	30303250
31	1880	2.18	31253200	2310	2.38	31253220	2680	2.53	31253250
32	2060	2.43	32313200	2510	2.66	32313220	2900	2.81	32313250
33	2170	2.59	33213200	2630	2.84	33213220	3020	2.98	33213250
35	2330	2.85	35323200	2820	3.12	35323220	3220	3.23	35323250
36	2470	3.08	36333200	2980	3.37	36333220	3390	3.46	36333250
37	2620	3.32	37263200	3140	3.63	37263220	3550	3.69	37263250
38	2810	3.66	38343200	3350	3.99	38343220	3760	4.00	38343250
39	2930	3.88	39353200	3490	4.22	39353220	3900	4.20	39353250
40	3170	4.33	40363200	3750	4.69	40363220	4150	4.58	40363250
41	3260	4.52	41223200	-	-	-	4260	4.73	41223250

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Table 19: 4-pole 3-phase, 5.7 kW, 2-bladed propeller

Speed, rpm	Diameter: 1.8 m			Diameter: 2.0 m			Diameter: 2.2 m			Diameter: 2.5 m		
	F_{thrust} N	P_{in} kW	Prop. code	F_{thrust} N	P_{in} kW	Prop. code	F_{thrust} N	P_{in} kW	Prop. code	F_{thrust} N	P_{in} kW	Prop. code
37	1630	2.19	463	2100	2.61	462	2560	2.89	461	2980	3.00	460
41	2030	2.86	423	2620	3.49	422	3150	3.83	421	3580	3.83	420
43	2220	3.22	473	2860	3.92	472	3400	4.27	471	3830	4.20	470
48	2760	4.35	433	3550	5.31	432	4130	5.68	431	4540	5.31	430

Table 20: 4-pole 3-phase, 5.7 kW, 3-bladed propeller

Speed, rpm	Diameter: 1.8 m			Diameter: 2.0 m			Diameter: 2.2 m			Diameter: 2.5 m		
	F_{thrust} N	P_{in} kW	Prop. code	F_{thrust} N	P_{in} kW	Prop. code	F_{thrust} N	P_{in} kW	Prop. code	F_{thrust} N	P_{in} kW	Prop. code
37	2050	2.88	37263180	2610	3.45	37263200	3130	3.76	37263220	3530	3.82	37263250
41	2560	3.86	41223180	3240	4.62	41223200	3830	4.99	41223220	4240	4.84	41223250
43	2790	4.34	43273180	3530	5.21	43273200	4130	5.59	43273220	4540	5.30	43273250
48	3450	5.92	48233180	-	-	-	-	-	-	5370	6.60	48233250

Table 21: 2-pole 3-phase, 7.5 kW, 3-bladed stainless steel propeller

Speed, rpm	Diameter: 1.25 m		
	F_{thrust} N	P_{in} kW	Prop. code
69	2860	8.6	287

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Table 22: 4-pole 3-phase, 5.7 kW, 2-bladed propeller

Speed, rpm	Diameter: 1.8 m			Diameter: 2.0 m			Diameter: 2.2 m			Diameter: 2.5 m		
	F_{thrust} N	P_{in} kW	Prop. code	F_{thrust} N	P_{in} kW	Prop. code	F_{thrust} N	P_{in} kW	Prop. code	F_{thrust} N	P_{in} kW	Prop. code
36	1540	1.88	36302180	2000	2.29	36302200	2450	2.55	36302220	2860	2.68	36302250
37	1630	2.02	463	2110	2.47	462	2580	2.75	461	3000	2.85	460
38	1760	2.21	38312180	2270	2.72	38312200	2760	3.01	38312220	3180	3.09	38312250

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Speed, rpm	Diameter: 1.8 m			Diameter: 2.0 m			Diameter: 2.2 m			Diameter: 2.5 m		
	F_{thrust} N	P_{in} kW	Prop. code	F_{thrust} N	P_{in} kW	Prop. code	F_{thrust} N	P_{in} kW	Prop. code	F_{thrust} N	P_{in} kW	Prop. code
39	1830	2.35	39322180	2370	2.88	39322200	2870	3.18	39322220	3290	3.24	39322250
40	1980	2.61	40332180	2560	3.20	40332200	3090	3.52	40332220	3510	3.54	40332250
41	2050	2.72	423	2640	3.34	422	3170	3.66	421	3600	3.66	420
43	2230	3.07	473	2880	3.76	472	3430	4.11	471	3860	4.03	470
45	2500	3.59	45342180	3220	4.41	45342200	3800	4.77	45342220	4220	4.56	45342250
48	2790	4.19	433	3590	5.16	432	4180	5.51	431	4580	5.13	430

Table 23: 4-pole 3-phase, 5.7 kW, 3-bladed propeller

Speed, rpm	Diameter: 1.8 m			Diameter: 2.0 m			Diameter: 2.2 m			Diameter: 2.5 m		
	F_{thrust} N	P_{in} kW	Prop. code	F_{thrust} N	P_{in} kW	Prop. code	F_{thrust} N	P_{in} kW	Prop. code	F_{thrust} N	P_{in} kW	Prop. code
36	1950	2.54	36303180	2480	3.05	36303200	2990	3.34	36303220	3400	3.43	36303250
37	2070	2.74	37263180	2630	3.29	37263200	3150	3.59	37263220	3560	3.65	37263250
38	2220	3.01	38313180	2820	3.62	38313200	3370	3.94	38313220	3780	3.95	38313250
39	2320	3.19	39323180	2940	3.84	39323200	3500	4.17	39323220	3910	4.15	39323250
40	2510	3.55	40333180	3180	4.28	40333200	3770	4.64	40333220	4170	4.52	40333250
41	2580	3.70	41223180	3280	4.47	41223200	3870	4.83	41223220	4280	4.67	41223250
43	2810	4.18	43273180	3570	5.05	43273200	4180	5.42	43273220	4580	5.11	43273250
45	3150	4.91	45343180	3990	5.95	45343200	-	-	-	5000	5.74	45343250
48	3500	5.76	48233180	-	-	-	-	-	-	-	-	-

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Table 24: 2-pole 3-phase, 7.5 kW

Propeller speed, rpm	F_{thrust} N	P_{in} kW	Prop. code
70	2840	7.93	70203125

Table 25: 2-pole 3-phase, 12.1 kW

Propeller speed, rpm	F_{thrust} N	P_{in} kW	Prop. code
80	3660	11.47	80403125

Xylem Water Solutions Global Services AB
556782-9253
361 80 Emmaboda
Sweden

Tel: +46-471-24 70 00
Fax: +46-471-24 74 01
https://tpi.xylem.com

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The original instruction is in English. All non-English instructions are translations of the original instruction.

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