



Submersible Dewatering Pumps

Sakuragawa Pumps are high capacity submersible dewatering pumps. These pumps are powerful, efficient and dependable. These pumps are designed to be used for major dewatering jobs, particularly when bigger volume of water is required to be handled.

They have extremely high capacity and are excellent in heavy-duty oriented conditions.

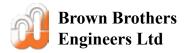
Applications:

- Drainage out of Sumps, Pits, Quarries, Minings, Cellars
- Dams, Harbour & Agricultural Irrigation projects
- Tunnels, Caisson Dewaterings, Power station constructions, Storm or Emergency water removal, Contractors & Rental companies.









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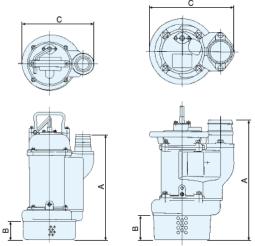


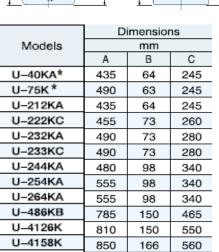
U-K Series – Heavy Duty Dewatering

Model	Dischar mm	rge Dia. inch	MAX m	Head ft	MAX Co m³/min	apacity L/sec	Materials	Motor (Output V	kg	List Price										
U-212KA	50	2	18	59	0.4	6.7	CI/CI/ST RUBBER	0.75	415	17.5	\$1,717										
U-222KC	50	2	24	78	0.48	8	CI/SGI/ST RUBBER	1.5	415	27	\$2,472										
U-232KA	50	2	29	95	0.55	9.1	HCI/SGI/ST RUBBER	2.2	415	32	\$3,227										
U-233KC	80	3	26	85	0.7	11.7	HCI/SGI/ST RUBBER	2.2	415	32	\$2,987										
U-244KA	100	4	20	65	1.5	25	HCI/SGI/ST RUBBER	3	415	46	\$4,154										
U-254KA	100	4	23	75	1.5	25	HCI/SGI/ST RUBBER	3.7	415	58	\$4,772										
U-264KA	100	4	25	82	1.5	25	HCI/SGI/ST RUBBER	4.5	415	58	\$5,013										
U-486KB	150	6	17	55	3.5	58	SGI/CI/SGI	5.5	415	124	\$6,901										
U-4126K	150	6	23	75	4.5	75	SGI/CI/SGI	9	415	180	\$9,064										
U-4158K	200	8	18	59	6	100	SGI/CI/SGI	11	415	200	\$9,476										
U-4308KB	200	8	25	82	8	133	SGI/CI/SGI	22	415	340	\$20,291										
Standard - S	Supplied	with 10m	power	cable.					Standard - Supplied with 10m power cable.												

DIMENSIONS

PERFORMANCE CURVES

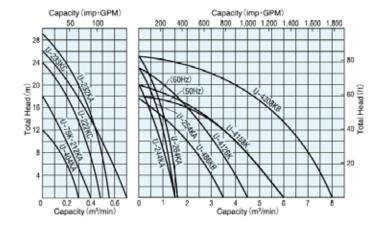




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212

630



U-4308KB

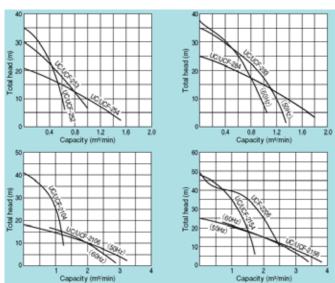


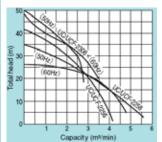


UC-UCF Series – Heavy Duty Dewatering

Model	Discha	rge Dia.	MAX	Head	MAX Ca	apacity	Materials	Motor	Output	kg	Lint Duin a
Model	mm	inch	m	ft	m³/min	L/sec		kW	\overline{V}		List Price
UC-252	50	2	35	114	0.65	10.8	HCI/SGI/ALU RUBB	3.7	415	51	\$6,077
UC-253	80	3	30	98	1	16.7	HCI/ST/ALU RUBB	3.7	415	49	\$5,596
UC-254	100	4	20	65	1.5	25	HCI/ST/ALU RUBB	3.7	415	49	\$5,596
UC-283	80	3	35	114	1.35	22.5	HCI/ST/ALU RUBB	5.5	415	49	\$5,974
UC-284	100	3	25	82	1.8	30	HCI/ST/ALU RUBB	5.5	415	49	\$5,974
UC-2104	100	4	41	134	1.3	21.7	HCI/SGI/ALU RUBB	7.5	415	82	\$8,824
UC-2106	150	4	18	59	3.2	53	HCI/ST/ALU RUBB	7.5	415	79	\$8,824
UC-2154	100	6	48	157	1.7	28	HCI/SGI/ALU RUBB	11	415	87	\$9,545
UC-2156	150	6	25	82	3.8	63	HCI/ST/ALU RUBB	11	415	84	\$9,545
UC-2256	150	8	42	137	4.2	70	SGI/SGI/ALU RUBB	19	415	167	\$16,102
UC-2258	200	8	35	114	5.6	93	HCI/ST/ALU RUBB	19	415	157	\$16,102
UC-2306	150	6	50	164	2.7	45	SGI/SGI/ALU RUBB	22	415	170	\$18,849
UCF-252	50	2	35	114	0.65	10.8	HCI/SGI/CI RUBB	3.7	415	89	\$6,695
UCF-253	80	3	30	98	1	16.7	HCI/ST/CI RUBB	3.7	415	82	\$6,317
UCF-254	100	4	20	65	1.5	25	HCI/ST/CI RUBB	3.7	415	84	\$6,317
UCF-283	80	3	35	114	1.35	22.5	HCI/ST/CI RUBB	5.5	415	82	\$6,695
UCF-284	100	4	25	82	1.8	30	HCI/ST/CI RUBB	5.5	415	84	\$6,695
UCF-2104	100	4	41	134	1.3	21.7	HCI/SGI/CI RUBB	7.5	415	118	\$9,545
UCF-2106	150	6	18	59	3.2	53	HCI/ST/CI RUBB	7.5	415	113	\$9,545
UCF-2154	100	4	48	157	1.7	28	HCI/SGI/CI RUBB	11	415	123	\$9,991
UCF-2156	150	6	25	82	3.8	63	HCI/ST/CI RUBB	11	415	118	\$9,991
UCF-2206	150	6	49	161	2.5	41.7	HCI/SGI/CI RUBB	15	415	139	\$12,154
UCF-2256	150	6	42	137	4.2	70	HCI/SGI/CI RUBB	19	415	231	\$16,686
UCF-2258	200	8	35	114	5.6	93	HCI/ST/CI RUBB	19	415	224	\$16,686
UCF-2306	150	6	50	164	2.7	45	HCI/SGI/CI RUBB	22	415	231	\$19,707
Standard - S	Supplied	with 10m j	power c	able.							





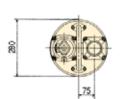


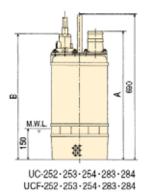


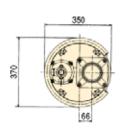


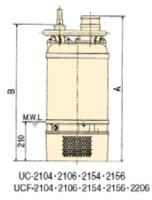
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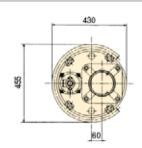
Hose-coupling type

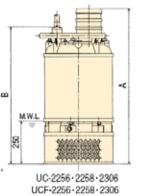








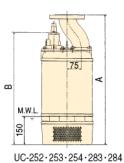




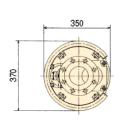
Model	A	В
UC/UCF-252	585	595
UC/UCF-253	610	595
UC/UCF-254	610	595
UC/UCF-283	610	595
UC/UCF-284	610	595
UC/UCF-2104	775	725
UC/UCF-2106	825	725
UC/UCF-2154	740	690
UC/UCF-2156	790	690
UCF-2206	840	740
UC/UCF-2256	900	795
UC/UCF-2258	930	795
UC/UCF-2306	900	795

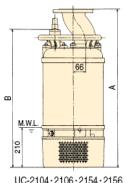
Center-flange type



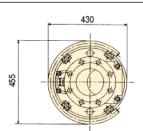


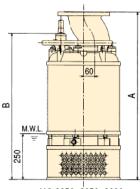
UC-252 · 253 · 254 · 283 · 284 UCF-252 · 253 · 254 · 283 · 284





UC-2104 · 2106 · 2154 · 2156 UCF-2104 · 2106 · 2154 · 2156 · 2206

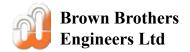




UC-2256 · 2258 · 2306 UCF-2256 · 2258 · 2306

Model	Α	В
UC/UCF-252	680	595
UC/UCF-253	690	595
UC/UCF-254	700	595
UC/UCF-283	690	595
UC/UCF-284	700	595
UC/UCF-2104	835	725
UC/UCF-2106	860	725
UC/UCF-2154	800	690
UC/UCF-2156	825	690
UCF-2206	875	740
UC/UCF-2256	910	795
UC/UCF-2258	950	795
UC/UCF-2306	910	795



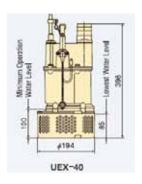


UEX Series – Level Sensor Automatic Operation.

Model	Disch Dia.mm	MAX Head m ft	MAX Ca m³/min	apacity L/sec	Materials	Motor (Output V	Weight kg	List Price
UEX-40A	50	12 39	0.19	3.1	SGI/CI/ST RUBBER	0.4	240	11.5	POA
UEX-222A	50	20 65	0.4	6.7	SGI/CI/ST	1.5	415	21	POA
UEX-233A	80	24 78	0.6	10.0	SGI/CI/ST	2.2	415	25	POA
UEX-253A	80	28 91	0.82	13.7	SGI/CI/ST	3.7	415	39	POA
Standard - U	EX -40A &	222A Supplied	with 5m pov	ver cable	UEX-233A & 253A Sur	nnlied wit	h 10m no	ower cable	,

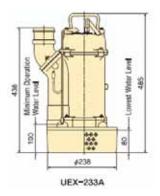
DIMENSIONS



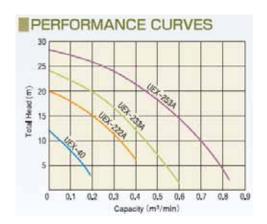




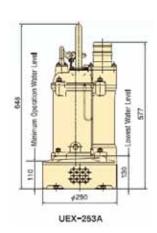




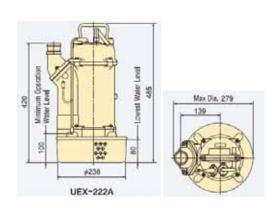












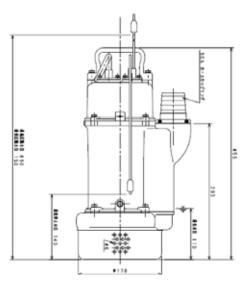




UOX Series - Level Sensor Automatic high/low

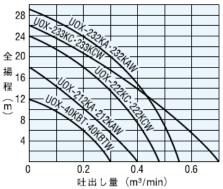
Model	Discha mm	rge Dia. inch	MAX m	Head ft	MAX Co m³/min		Materials	Motor (Output V	Weight kg	List Price
UOX-40KBT	50	2	11	36	0.25	4.0	SGI/CI/ST RUBBER	0.4	415	18	POA
UOX-212KA	50	2	18	59	0.40	6.7	SGI/CI/ST RUBBER	0.75	415	20	POA
UOX-222KC	50	2	24	78	0.48	8.0	SGI/CI/ST RUBBER	1.5	415	28	POA
UOX-232KA	50	2	29	95	0.55	9.1	SGI/CI/CI RUBBER	2.2	415	34	POA
UOX-233KC	80	3	26	85	0.70	11.6	SGI/CI/ST RUBBER	2.2	415	35	POA
3 SENSOR PUM	PS FOR	2 PUMP	OPER	ATION	Ī						
UOX-40KBTW	50	2	11	36	0.25	4.0	SGI/CI/ST RUBBER	0.4	415	18	POA
UOX-212KAW	50	2	18	59	0.40	6.7	SGI/CI/ST RUBBER	0.75	415	20	POA
UOX-222KCW	50	2	24	78	0.48	8.0	SGI/CI/ST RUBBER	1.5	415	28	POA
UOX-232KAW	50	2	29	95	0.55	9.1	SGI/CI/CI RUBBER	2.2	415	34	POA
UOX-233KCW	80	3	26	85	0.70	11.6	SGI/CI/ST RUBBER	2.2	415	35	POA
Standard - Suppli	ed with 1	0m powe	r cable,	except	UOX- 40K	CBT & K	BTW These units a	re suppli	ed with	5m power	cable.

DIMENSIONS







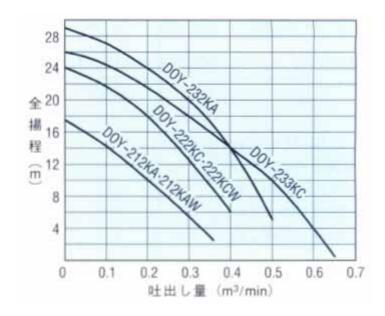






UOY Series Float Switch High / Low

Model	Disch Di mm	harge ia. inch	MAX m	Head ft	MAX Capacity m³/min L/sec		Materials	Motor kW	Motor Output kW V		List Price		
UOY-40	50	2	10	32	0.25	4.0	SGI/CI/ST RUBBER	0.4	415	17	POA		
UOY-40W	50	2	10	32	0.25	4.0	SGI/CI/ST RUBBER	0.4	415	17	POA		
UOY-212KA	50	2	17	55	0.35	5.8	SGI/CI/ST RUBBER	0.75	415	20	POA		
UOY-222KC	50	2	24	78	0.40	6.7	SGI/SGI/ST RUBBER	1.5	415	28	POA		
UOY-232KA	80	3	28	91	0.50	8.3	HC/CI/CI RUBBER	2.2	415	34	POA		
UOY-233KC	50	2	26	85	0.65	10.8	HC/CI/ST RUBBER	2.2	415	35	POA		
3 AUTOMATIC	FLOAT	PUMP	S FOR	2 PUN	MP OPER	ATION							
UOY-212KAW	50	2	17	55	0.35	5.8	SGI/CI/ST RUBBER	0.75	415	20	POA		
UOY-222KCW	50	2	24	78	0.40	6.7	SGI/SGI/ST RUBBER	1.5	415	28	POA		
Standard - Suppli	Standard - Supplied with 10m power cable, except UOY- 40 & 40W These units are supplied with 5m power cable.												





New Zealand Prices - 2013 . All prices do not include GST and are subject to change without notice

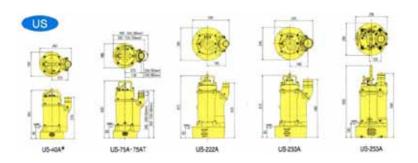




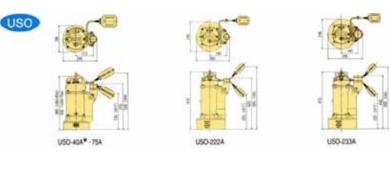
US/USO/US-A Series Vortex Impeller Dewatering.

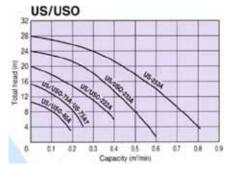
Model	Dischar, mm	ge Dia. inch	MAX m	Head ft	MAX Co m³/min		Materials	Motor C	Output V	kg	List Price
MANUAL											
US-222A	50/80	2/3	20	65	0.40	6.7	SGI/ST RUBBER/CI	1.5	415	19.5	POA
US-233A	80	3	24	78	0.60	10	SGI/ST RUBBER/CI	2.2	415	24	POA
US-253A	80/100	3/4	28	91	0.80	13.3	SGI/ST RUBBER/CI	3.7	415	38.5	POA
AGITATOR											
US-222AA	50/80	2/3	16	52	0.45	7.5	SGI/ST RUBBER/CI	1.5	415	25	POA
US-233AA	80	3	24	78	0.60	10	SGI/ST RUBBER/CI	2.2	415	29	POA
US-253AA	50	2	24	78	0.85	14.1	SGI/ST RUBBER/SGI	3.7	415	45	POA
AUTOMATIC											
USO-222A	50	2	20	65	0.40	6.7	SGI/ST RUBBER/CI	1.5	415	20	POA
USO-233A	50	2	24	78	0.60	10	SGI/ST RUBBER/CI	2.2	415	24.5	POA
US-75AT	50/80	2/3	15	49	0.25	4.1	SGI/ST RUBBER/CI	0.75	415	19.5	POA
USO-40A	50	2	10	32	0.18	3	SGI/ST RUBBER/CI	0.4	240	17.5	POA
USO-75A	50/80	2/3	15	49	0.25	4.1	SGI/ST RUBBER/CI	0.75	240	21.5	POA
Standard - Suppl	ied with 1	0m pow	er cable	except	USO- 40,	75A & A	T These units are supplie	d with 5m	power	cable.	

DIMENSIONS

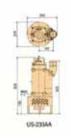


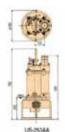


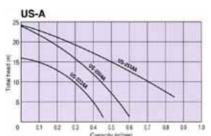
















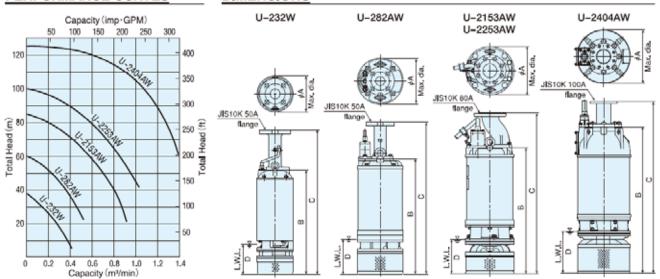
U-W Series - High Head

Model	Discha mm	rge Dia. inch	MAX m	Head ft	MAX Co m³/min	-	Materials	Motor kW	Output V	kg	List Price
U-232W (TDH 26m)	50	2	38	124	0.4	6.7	SGI/SGI/SGI	2.2	415	45	POA
U-232W (TDH 30m)	50	2	38	124	0.4	6.7	HCI/CI/CI	2.2	415	45	POA
U-282AW	50	2	60	196	0.5	8.3	HCI/CI/CI	5.5	415	100	POA
U-2153AW	80	3	85	278	0.9	15	HCI/SGI/SGI	11	415	145	POA
U-2253AW	80	3	100	328	1	16.7	HCI/SGI/CI	19	415	260	POA
U-2404AW	100	4	125	410	1.4	23.3	HCI/SGI/SGI	30	415	425	POA

Standard - U-232W Supplied with 10m power cable. U-282W Supplied with 15m power cable. U-2153AW, U-2253AW & U-2404AW Each supplied with 20m power cable.

PERFORMANCE CURVES

DIMENSIONS



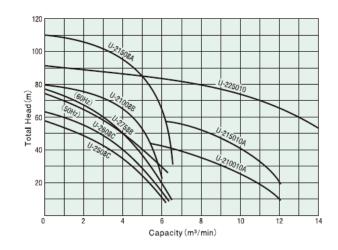


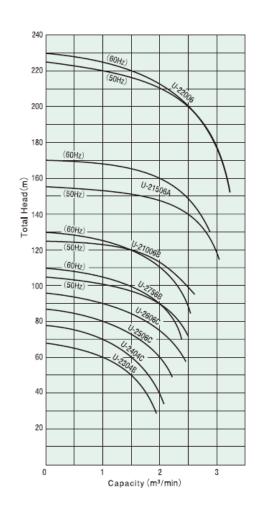


U Series (High Head)

Model	Discha mm	rge Dia. inch	MAX m	Head ft	MAX Co m³/min	apacity L/sec	Materials	Motor kW	Output V	kg	List Price
U-2304B	100	4	68	223	1.8	30	HCI/SGI/SGI	22	415	280	POA
U-2404C	100	4	78	256	2.1	35	HCI/SGI/SGI	30	415	380	POA
U-2506C (TDH 80 m)	150	6	87	285	2.3	38	HCI/SGI/SGI	37	415	485	POA
U-2506C (TDH 60 m)	150	6	87	285	2.3	38	HCI/SGI/SGI	37	415	485	POA
U-2606C (TDH 90 m)	150	6	97	318	2.4	40	HCI/SGI/SGI	45	415	485	POA
U-2606C (TDH 75 m)	150	6	97	318	2.4	40	HCI/SGI/SGI	45	415	485	POA
U-2756B	150	6	110	360	2.5	42	HCI/SGI/SGI	55	415	545	POA
U-21006B	150	6	125	410	2.6	43	HCI/SGI/SGI	75	415	980	POA
U-21506A (50Hz)	150	6	155	508	3.0	50	HCI/SGI/SGI	110	415	1,080	POA
U-21506A (60Hz)	150	6	155	508	3.0	50	HCI/SGI/SGI	110	415	1,080	POA
U-2508C	200	8	58	190	6.1	102	HCI/SGI/CI	37	415	510	POA
U-2608C	200	8	62	203	6.2	103	HCI/SGI/CI	45	415	510	POA
U-2758B	200	8	73	239	6	100	HCI/SGI/SGI	55	415	560	POA
U-21008B	200	8	80	262	6	100	HCI/SGI/SGI	75	415	980	POA
Standard - St	ipplied w	ith 20m po	ower cal	ole.							

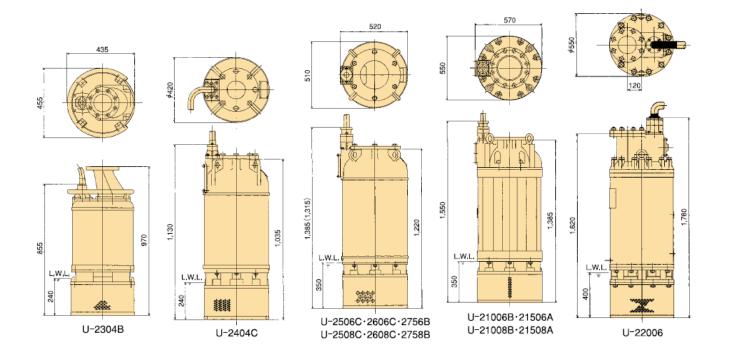










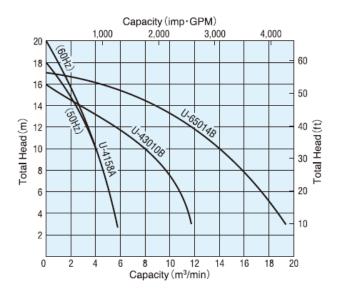


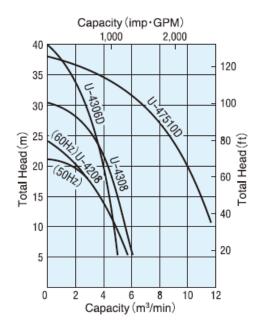




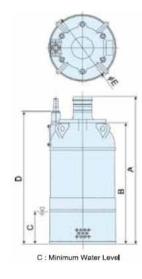
U Series (High Capacity)

Model	Discha	rge Dia.	MAX	Head	MAX Ca		Materials	Motor (-	kg	List Price
	mm	inch	m	ft	m³/min	L/sec		kW	V		
U-4158A	200	8	18	59	5.2	86	HCI/SGI/CI	11	415	177	POA
U-4208	200	8	21	68	6.0	100	HCI/SGI/HCI	15	415	277	POA
U-4306D	150	6	40	131	4.0	66	HCI/CI/HCI	22	415	365	POA
U-4308(TDH 22M)	200	8	30	98	6.1	101	HCI/CI/HCI	22	415	440	POA
U-4308(TDH 15M)	200	8	30	98	6.1	101	HCI/CI/HCI	22	415	440	POA
U-43010B	250	10	16	52	11.8	196	HCI/CI/HCI	22	415	355	POA
U-65014B	350	14	17	55	19.0	315	HCI/CI/HCI	37	415	700	POA
U-47510D	250	10	38	125	11.7	194	HCI/SGI/HCI	55	415	730	POA
Standard - Supplied with 10m power cable. Except for the U-47510D:- supplied with 20m power cable.											











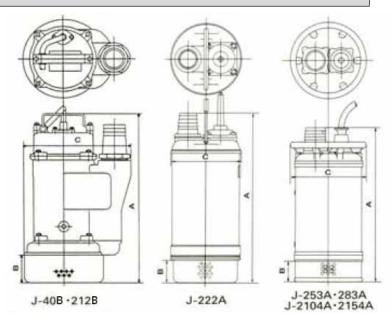


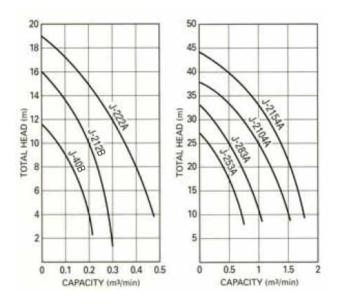
J Series - 316SS Units

Model	Discha mm	rge Dia. inch	MAX m	X Head ft	MAX Co m³/min	apacity L/sec	Motor (Output V	Phase	Weight kg	List Price
J-40B	50	2	11.5	37	0.23	3.8	0.4	415	1	19	POA
J-40BT	50	2	11.5	37	0.23	3.8	0.4	415	3	19	POA
J-212B	50	2	16.0	52	0.30	5.0	0.75	415	3	20	POA
J-222A	50	2	19.0	62	0.47	7.8	1.5	415	3	37	POA
J-253A	80	3	27.0	88	0.75	12.5	3.7	415	3	92	POA
J-283A	80	3	33.0	108	1.20	20.0	5.5	415	3	98	POA
J-2104A	100	4	38.0	124	1.50	25.0	7.5	415	3	127	POA
J-2154A	100	4	44.0	144	1.60	26.5	11	415	3	137	POA

Standard - J40 Supplied with 5m power cable. J-212 to J-283 supplied with 10m power cable. J-2104 & J-2154 Supplied with 20m power cable

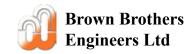
	DIMENSIONS							
MODELS	mm							
	A	В	C					
J-40B	390	65	245					
J-212B	390	65	245					
J-222A	470	63	195					
J-253A	625	87	315					
J-283A	655	87	315					
J-2104A	710	96	360					
J-2154A	740	96	360					





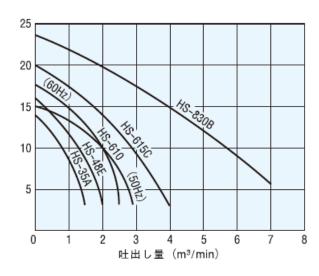






HS-NHS Series – Sand & Dredger Pump Series With HCI Agitator.

mm		1727 17 1	Head	MAX C	apacity	Materials	Motor Output		kg	Lind Dulin
mm inch		m ft		m³/min	L/sec		kW V			List Price
80	3	14	46	1.5	25.0	HCI/SGI/CI/HCI	3.7	415	110	POA
80	3	19	62	1.4	23.3	HCI/SGI/CI/HCI	5.5	415	119	POA
100	4	16	52	2.2	36.5	HCI/SGI/CI/HCI	5.5	415	119	POA
150	6	15	49	2.6	43.0	HCI/SGI/CI/HCI	7.5	415	200	POA
150	6	20	65	4.0	66.7	HCI/SGI/CI/HCI	11	415	240	POA
100	4	36	118	2.2	36.5	HCI/SGI/CI/HCI	15	415	350	POA
100	4	42	138	2.8	46.4	HCI/SGI/CI/HCI	22	415	420	POA
200	8	23	75	6.0	100.0	HCI/SGI/CI/HCI	22	415	355	POA
100	4	22	72	3.1	51.7	HCI/SGI/SGI/HCI	11	415	265	POA
100	4	22	72	3.1	51.7	HCI/SGI/SGI/HC	11	415	310	POA
150	6	31	101	5.0	83.3	HCI/SGI/SGI/HC	22	415	430	POA
150	6	31	101	5.0	83.3	HCI/SGI/SGI/HC	22	415	535	POA
150	6	20	65	6.0	100.0	HCI/SGI/SGI/HC	22	415	620	POA
150	6	20	65	6.0	100.0	HCI/SGI/SGI/HC	22	415	710	POA
150	6	30	98	7.2	120.0	HCI/SGI/HCI/HC	37	415	785	POA
150	6	30	98	7.2	120.0	HCI/SGI/HCI/HC	37	415	930	POA
200	8	25	82	10.5	175.0	HCI/SGI/HCI/HC	37	415	815	POA
200	8	25	82	10.5	175.0	HCI/SGI/HCI/HC	37	415	975	POA
150	6	36	118	6.8	113.3	HCI/SGI/HCI/HC	55	415	870	POA
150	6	36	118	6.8	113.3	HCI/SGI/HCI/HC	55	415	985	POA
200	8	30	98	10.7	178.0	HCI/SGI/HCI/HC	55	415	915	POA
200	8	30	98	10.7	178.0	HCI/SGI/HCI/HC	55	415	1,075	POA
200	8	41	134	10.5	175.0	HCI/SGI/HCI/HC	75	415	2,200	POA
200	8	41	134	10.5	175.0	HCI/SGI/HCI/HC	75	415	2,360	POA
250	10	28	92	16.0	267.0	HCI/SGI/HCI/HC	75	415	2,700	POA
250	10	28	92	16.0	267.0	HCI/SGI/HCI/HC	75	415	2,900	POA
	80 100 150 150 100 100 200 100 100 150 150 150 150 150 200 200 150 200 200 200 250 250	80 3 100 4 150 6 150 6 100 4 100 4 100 4 100 4 150 6 150 6 150 6 150 6 150 6 200 8 200 8 200 8 200 8 200 8 200 8 200 8 200 8 200 8 200 8 200 8 200 8 200 8 250 10	80 3 19 100 4 16 150 6 20 100 4 36 100 4 42 200 8 23 100 4 22 100 4 22 150 6 31 150 6 30 150 6 20 150 6 30 200 8 25 200 8 25 150 6 36 200 8 30 200 8 30 200 8 30 200 8 30 200 8 41 200 8 41 200 8 41 250 10 28 250 10 28	80 3 19 62 100 4 16 52 150 6 15 49 150 6 20 65 100 4 36 118 100 4 42 138 200 8 23 75 100 4 22 72 100 4 22 72 150 6 31 101 150 6 31 101 150 6 20 65 150 6 20 65 150 6 30 98 200 8 25 82 200 8 25 82 200 8 25 82 150 6 36 118 150 6 36 118 150 6 36 118 200 8 <	80 3 19 62 1.4 100 4 16 52 2.2 150 6 15 49 2.6 150 6 20 65 4.0 100 4 36 118 2.2 100 4 42 138 2.8 200 8 23 75 6.0 100 4 22 72 3.1 100 4 22 72 3.1 150 6 31 101 5.0 150 6 31 101 5.0 150 6 31 101 5.0 150 6 31 101 5.0 150 6 30 98 7.2 150 6 30 98 7.2 200 8 25 82 10.5 200 8 25 82 10.5 <td>80 3 19 62 1.4 23.3 100 4 16 52 2.2 36.5 150 6 15 49 2.6 43.0 150 6 20 65 4.0 66.7 100 4 36 118 2.2 36.5 100 4 42 138 2.8 46.4 200 8 23 75 6.0 100.0 100 4 22 72 3.1 51.7 100 4 22 72 3.1 51.7 150 6 31 101 5.0 83.3 150 6 31 101 5.0 83.3 150 6 31 101 5.0 83.3 150 6 20 65 6.0 100.0 150 6 30 98 7.2 120.0 200 8</td> <td>80 3 19 62 1.4 23.3 HCI/SGI/CI/HCI 100 4 16 52 2.2 36.5 HCI/SGI/CI/HCI 150 6 15 49 2.6 43.0 HCI/SGI/CI/HCI 150 6 20 65 4.0 66.7 HCI/SGI/CI/HCI 100 4 36 118 2.2 36.5 HCI/SGI/CI/HCI 200 8 23 75 6.0 100.0 HCI/SGI/CI/HCI 100 4 22 72 3.1 51.7 HCI/SGI/SGI/HCI 100 4 22 72 3.1 51.7 HCI/SGI/SGI/HCI 150 6 31 101 5.0 83.3 HCI/SGI/SGI/HCI 150 6 31 101 5.0 83.3 HCI/SGI/SGI/HCI 150 6 31 101 5.0 83.3 HCI/SGI/SGI/HCI 150 6 30 98 7.2 <t></t></td> <td>80 3 19 62 1.4 23.3 HCI/SGI/CI/HCI 5.5 100 4 16 52 2.2 36.5 HCI/SGI/CI/HCI 5.5 150 6 15 49 2.6 43.0 HCI/SGI/CI/HCI 7.5 150 6 20 65 4.0 66.7 HCI/SGI/CI/HCI 11 100 4 36 118 2.2 36.5 HCI/SGI/CI/HCI 15 100 4 42 138 2.8 46.4 HCI/SGI/CI/HCI 22 200 8 23 75 6.0 100.0 HCI/SGI/CI/HCI 22 100 4 22 72 3.1 51.7 HCI/SGI/SGI/HCI 11 100 4 22 72 3.1 51.7 HCI/SGI/SGI/HCI 11 150 6 31 101 5.0 83.3 HCI/SGI/SGI/HC 22 150 6 31 101</td> <td>80 3 19 62 1.4 23.3 HCl/SGI/CI/HCI 5.5 415 100 4 16 52 2.2 36.5 HCl/SGI/CI/HCI 5.5 415 150 6 15 49 2.6 43.0 HCl/SGI/CI/HCI 7.5 415 150 6 20 65 4.0 66.7 HCl/SGI/CI/HCI 11 415 100 4 36 118 2.2 36.5 HCl/SGI/CI/HCI 15 415 100 4 42 138 2.8 46.4 HCl/SGI/CI/HCI 22 415 200 8 23 75 6.0 100.0 HCl/SGI/SGI/HCI 11 415 100 4 22 72 3.1 51.7 HCl/SGI/SGI/HCI 11 415 150 6 31 101 5.0 83.3 HCl/SGI/SGI/HC 22 415 150 6 31 101 <td< td=""><td>80 3 19 62 1.4 23.3 HCl/SGI/Cl/HCI 5.5 415 119 100 4 16 52 2.2 36.5 HCl/SGI/Cl/HCI 5.5 415 119 150 6 15 49 2.6 43.0 HCl/SGI/Cl/HCI 7.5 415 200 150 6 20 65 4.0 66.7 HCl/SGI/Cl/HCI 11 415 240 100 4 36 118 2.2 36.5 HCl/SGI/Cl/HCI 15 415 350 100 4 42 138 2.8 46.4 HCl/SGI/Cl/HCI 22 415 355 100 4 42 138 2.8 46.4 HCl/SGI/Cl/HCI 22 415 355 100 4 22 72 3.1 51.7 HCl/SGI/Cl/HCI 22 415 355 100 4 22 72 3.1 51.7 HCl/SGI</td></td<></td>	80 3 19 62 1.4 23.3 100 4 16 52 2.2 36.5 150 6 15 49 2.6 43.0 150 6 20 65 4.0 66.7 100 4 36 118 2.2 36.5 100 4 42 138 2.8 46.4 200 8 23 75 6.0 100.0 100 4 22 72 3.1 51.7 100 4 22 72 3.1 51.7 150 6 31 101 5.0 83.3 150 6 31 101 5.0 83.3 150 6 31 101 5.0 83.3 150 6 20 65 6.0 100.0 150 6 30 98 7.2 120.0 200 8	80 3 19 62 1.4 23.3 HCI/SGI/CI/HCI 100 4 16 52 2.2 36.5 HCI/SGI/CI/HCI 150 6 15 49 2.6 43.0 HCI/SGI/CI/HCI 150 6 20 65 4.0 66.7 HCI/SGI/CI/HCI 100 4 36 118 2.2 36.5 HCI/SGI/CI/HCI 200 8 23 75 6.0 100.0 HCI/SGI/CI/HCI 100 4 22 72 3.1 51.7 HCI/SGI/SGI/HCI 100 4 22 72 3.1 51.7 HCI/SGI/SGI/HCI 150 6 31 101 5.0 83.3 HCI/SGI/SGI/HCI 150 6 31 101 5.0 83.3 HCI/SGI/SGI/HCI 150 6 31 101 5.0 83.3 HCI/SGI/SGI/HCI 150 6 30 98 7.2 <t></t>	80 3 19 62 1.4 23.3 HCI/SGI/CI/HCI 5.5 100 4 16 52 2.2 36.5 HCI/SGI/CI/HCI 5.5 150 6 15 49 2.6 43.0 HCI/SGI/CI/HCI 7.5 150 6 20 65 4.0 66.7 HCI/SGI/CI/HCI 11 100 4 36 118 2.2 36.5 HCI/SGI/CI/HCI 15 100 4 42 138 2.8 46.4 HCI/SGI/CI/HCI 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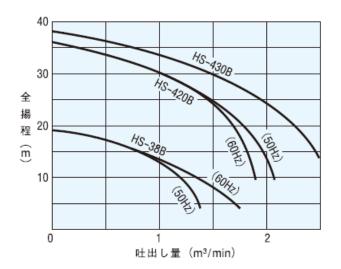




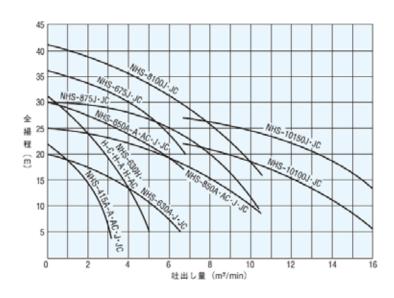


Brown Brothers Engineers Ltd

PERFORMANCE CURVES







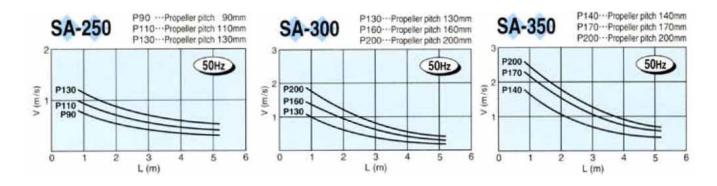






SA Series - CI Casing & SS Propeller Submersible Mixers.

Model	Propeller Pitch mm	Flow Speed at Guide ring m/s	Capacity m³/min	Motor (Output V	Force N	Weight kg	List Price		
SA-075A	90/110/130	0.93/1.11/1.32	2.8/3.4/4.0	0.75	415	44/62/88	35	POA		
SA-250	90/110/130	0.93/1.11/1.32	2.8/3.4/4.0	1.2	415	44/62/88	34	POA		
SA-300	130/160/200	1.41/1.72/2.02	6.2/7.5/8.8	3.3	415	145/220/300	80	POA		
SA-350	140/170/200	1.54/1.92/2.22	8.4/10.5/12.1	5.5	415	215/335/450	94	POA		
SA-400	200			5.5	415		97	POA		
SA-0.75C	1010/850			0.75	415		61	POA		
SA-0.75D	1010/850			0.75	415		61	POA		
SA-1.5C	1010			1.5	415		77	POA		
SA-1.5D	1010			1.5	415		77	POA		
SA-250V	90/110/130	0.93/1.11/1.32	2.8/3.4/4.0	1.2	415	44/62/88	34	POA		
SA-300V	130/160/200	1.41/1.72/2.02	6.2/7.5/8.8	3.3	415	145/220/300	80	POA		
SA-350V	140/170/200	1.54/1.92/2.22	8.4/10.5/12.1	5.5	415	215/335/450	94	POA		
SA-400V	200			5.5	415		97	POA		
Standard - Supplied with 10m power cable.										







Brown Brothers Engineers Ltd

Additional Information:

Materials:

HCI = High Chrome Iron

SGI = Spheroidal

graphite Iron - Ductile Iron

CI Rubb = Cast Iron + Synthetic Rubber

ST Rubb = Steel + Synthetic Rubber

CI = Cast Iron

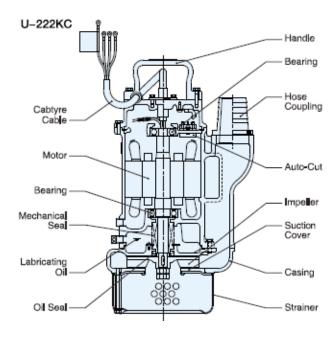
ST = Steel

Alu = Aluminum

Alu Rubb = Aluminum + Synthetic Rubber

Note: Materials listed refer to the Impeller/ Casing/ Suction cover. All shafts are SS. All are fitted with Double Mechanical seals in Oil Baths.

Basic pump cut away.



MOTOR PROTECTOR

Auto-cut, recycling thermal protector is built-in to secure the protection of the motor against temperature rise due to clogging of the impeller, overload, dry-running, voltage drop, etc. U-4308KB is not equipped with Auto-Cut.

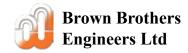
SHAFT SEAL

The twin Mechanical Seals cooled and lubricated in the oil bath system ensure reliable effect and steady service at heavy-duty work sites for a long period of time.

IMPELLER & CASING

The impeller is precisely balanced and abrasion-resistant with a large channel to ensure free of clogging. Together with the hydromechanically well designed volute casing, the impeller will function to the great extent of pumping efficiency. The suction cover is rubberlined, excellent wearing resistant to abrasive particles in water.





Mace Group of Companies NZ STANDARD TERMS AND CONDITIONS OF SALE Version 20/11/2008

1 Defined Terms

"Goods" means all goods supplied from time to time by us to you and (unless the context otherwise requires) includes all proceeds of such goods, provided that: (a) where the Goods supplied are your Inventory, then all references to Goods in these Terms shall, in respect of those Goods, be read as references to Inventory;

(b) where the Goods supplied are not Inventory then all references to Goods in these Terms shall, in respect of those Goods, mean the Goods described in any one or more of the relevant order form, packing slip or invoice (or its equivalent, whatever called) relating to those Goods, on the basis that each such order form, packing slip or invoice (or its equivalent) shall be deemed to be incorporated in, and form part of, these Terms.

Mace Group of Companies Ltd ("The Company", "our", "us" etc) "Inventory" has the meaning given to that term in the PPSA.

"PPSA" means the Personal Property Securities Act 1999 (as amended or substituted from time to

time).

Unless the context otherwise requires, words and phrases shall have the meanings given to them in, or

by virtue of, the PPSA

2 Terms of contract

Any Goods or services supplied to you shall be subject to these Terms unless we agree in writing to change them. If you accept goods or services from us, or deliver Goods to us for servicing, those actions by you will be deemed to be acceptance of these Terms, notwithstanding anything that may be stated to the contrary in your enquiries or your order

3 Price

3.1 The price for goods and services will be either as quoted to you in writing or, if no written quote is provided, at our standard charges applying at the time. Unless otherwise agreed in writing any quoted price may be altered prior to delivery of Goods or provision of services to you, if our costs fluctuate materially. We may withdraw any quotation before it is accepted, and in any event any quotation will lapse without notice 30 days after it is given. All prices and charges are GST exclusive. 3.2 Quotations for the installation of pumps are based on the assumption that the well is clean and in good order. They do not cover any cleaning of the well nor any servicing required due to grit or other foreign matter being drawn from the well. 3.3 Unless otherwise agreed in writing all freight, insurance and delivery charges will be additional to any price quoted.

- 4.1 Payment for goods and services must be made by the 20th day of the month following the date of the invoice relating to those Goods or services. Payments will not be credited until cleared.
- 4.2 If full payment for the Goods or services is not made on the due date, then without prejudice to any other remedies available to us:
- (a) we may cancel or withhold supply of further Goods or services;
- (b) interest on monies overdue shall be charged on a daily basis and be calculated at the rate of 15% per annum during such default, and interest shall continue to accrue both before and after judgment; and
- (c) you shall be responsible for all costs incurred by us in recovering such monies. 4.3 We may from time to time vary your credit limit with us at our discretion, in relation to further purchases of Goods or services. If any purchase would be in excess of your credit limit, we reserve the right to require, prior to delivery of the Goods or services, payment in cash of the amount by which the cost exceeds your credit limit. 9 Compliance with Acts and Regulations Before supplying you with Goods or services, we may at our discretion require all or any of the following:
- (a) payment in advance;
- (b) a guarantee of payment;
- (c) a deposit;
- (d) progress payment;
- (e) a letter of credit.
- 4.4 We may set off against any monies owed by us to you any monies which you owe to us or any of our subsidiaries, related companies or shareholders so that our obligation to you shall be to pay the net balance only.
- 4.5 If any of our subsidiaries, related companies or shareholders owe monies to you then they may set off against those monies any monies owed by you to us in respect of any Goods or services. They will only be liable to pay the net balance owing. You agree that this provision is made for the benefit of our subsidiaries, related companies and shareholders and may be enforced directly by them in their own respective names.
- 4.6 Your obligation under these Terms shall be to pay the full amount owing under these Terms free of all deductions or rights of set off.

5 Ownership

- 5.1 Ownership in the Goods shall not pass upon delivery, but shall remain with us until full payment for all monies owing by you to us has been made. Until all monies have been paid:
- (a) You will hold the Goods for us in a manner which enables them to be identified as our Goods. As your agent, we (and our employees and agents) may, without prior notice, enter any land or premises where the Goods are kept in order to take possession of and/or remove them and you indemnify us against any liability incurred in connection with such entry, taking of possession and removal.
- (b) If you sell or use any Goods, the proceeds of sale or use (in whatever form) shall be our property and you must pay all such proceeds to us or otherwise deal with such proceeds as we direct irrespective of any terms of credit between you and
- (c) If we take possession of any Goods in accordance with this clause we may sell or dispose of the Goods in such manner and generally on such terms and

conditions as we think fit. You and we agree that section 109(1) of the PPSA is contracted out of in respect of particular Goods if and only for so long as we are not the secured party with priority over all other secured parties in respect of those Goods.

All Goods delivered to or in our possession, for repair or servicing are subject to a lien for any sums owing by you to us, for repairs or servicing carried out on the Goods. Where we retain a lien over any of your Goods and you are more than three months overdue with any monies owing, we may, without further notice, sell the Goods in such a manner and on such terms as we think fit, and may from sale proceeds repay the amounts owing to us for work done, and any expenses of sale.

7 Risk and Delivery 7.1 Unless otherwise agreed, you shall be responsible for the cost of and arranging transportation of all Goods. If we are delivering the Goods to you, we will use reasonable endeavours to see that deliveries are made according to schedule, but shall not be responsible for delivery delays due to causes beyond our control and

you agree to accept delivery as soon as the Goods are able to be delivered. 7.2 Risk in respect of the Goods sold shall pass to you when the Goods leave our point of sale, are delivered to you or your carrier, or the time you pay for the Goods, whichever is the earlier.

7.3 Risk in the customers goods in our possession, for including but not limited to, servicing, inspection, repair remains with the customer. It is the customers responsibility to insure your goods, even if we have arranged transportation of the Goods. 7.4 If you fail to pick up or to accept delivery of the Goods ordered, or request a delay in delivery, you shall pay us reasonable storage charges until such time as delivery is made. You shall also pay for the Goods in full as if the Goods had been

7.5 We shall be entitled to make delivery by installment and each delivery shall be deemed to be a separate contract and the unit price in respect of Goods delivered shall fall due for payment in accordance with clause 4.

8 Specifications

- 8.1 All drawings and technical documents supplied by us to you shall remain our property and must not be used by you or reproduced or brought to the knowledge of any other person without our written consent.
- 8.2 Where the equipment is manufactured to the customer's specification the customer hereby warrants that the manufacture and supply of such equipment by the company will not infringe an intellectual property right, a patent, registered design, trademark, copyright or other proprietary right and the customer indemnifies the company against any liability to or action by a third party for infringement or alleged infringement of any intellectual property right.
- 8.3 All reports, correspondence, drawings, plans, computations, specifications etc prepared or made by us in connection with the contract for the provision of the goods or any tender or quotation shall remain the property of the company and confidential between the company and the purchaser and must not be disclosed, copied or used without the company's prior consent and shall be returned to the company immediately upon the company's request. All right or title to any discovery made while the seller is producing the goods pursuant to any contract for the purchaser shall remain with the company.
- 8.4 All intellectual property remains the property of Mace Group of Companies at all
- 8.5 Where we are required to install Goods we are not responsible for determining or ascertaining the structure soundness or suitability of any building in which the Goods are to be installed.

- 9.1 Where you grant access to us over your property for the purposes of our providing Goods or services to you, you shall ensure compliance with all legislation and regulations in relation to the property, including ensuring the property is in a safe state for us to undertake any necessary work.
- 9.2 If we have any concerns regarding the safety of our employees, in relation to the access and use of your property, we shall be entitled to halt all work on your property, until such time as our safety concerns have been resolved. In that case you shall be responsible for payment of work undertaken by us to that point.

10 Warranties

- 10.1 Except to the extent of written warranties given by us to you, all warranties and representations including those expressed or implied by law, in respect of Goods sold or services supplied are excluded to the extent permitted by law.
- 10.2 We shall not be liable:
- (a) where you have altered or modified the Goods, mis-applied the Goods, or have subjected
- them to any unusual or non-recommended use, servicing or handling;
- (b) for loss caused by any factors beyond our control;
- (c) for any indirect or consequential loss of any kind;
- (d) for any second hand Goods;
- (e) where the terms of any written warranty have not been complied with, or any manufacturers' handbook provided to you has not been complied with;
- (f) for normal wear and tear:
- (g) where electrical Goods have not been used on the correct electrical current or not in the manner or not for the duty recommended by us;
- (h) for failure or damage to pumping equipment caused by sand or any abrasive material.
- (i) for repairs or jobs using customer supplied material
- 10.3 Our total liability under any warranty for defective or damaged Goods supplied by us or in relation to the provision of services is limited at our option to either:
- (a) replacing or repairing the defective or damaged Goods; or
- (b) refunding the price of the defective or damaged Goods or provision of service.
- 10.4 Any Goods returned to us must be returned freight paid. You can claim for any





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reasonable freight charges. All claims must be accompanied by the packing slip or delivery docket, and a copy of the invoice. Claims must be made within 7 days of receipt of the Goods. Where we elect to repair defective Goods, we will use reasonable endeavours to repair the Goods, as soon as practical, but will not be liable for any delay in completing the repairs.

10.5 Goods "ex stock" may be returned freight paid for a handling fee of 10%, provided the Goods (together with a copy of the relevant invoice) are returned within 14 days of delivery of the Goods. You may only return Goods under this clause if the Goods are in the same condition as when purchased. Goods bought on "special" are not returnable.

10.6 Goods specifically purchased, fabricated or machined at the customer's request are not returnable.

11 General Terms

11.1 Mediation

If a dispute arises, we may agree to settle the dispute by mediation before resorting to litigation or arbitration.

11.2 Cancellation by you

You may not cancel any order for Goods or services or part of it without our written consent. If you do so, in addition to any other rights we may have, we may retain any deposit paid and charge you for any costs incurred to date.

11.3 Cancellation by us

We shall be entitled without liability to you to cancel an order or delivery of an order if:

(a) you become insolvent, enter into a scheme of arrangement with creditors (other than with our consent) or you cease or threaten to cease to carry on all or a material part of your business, or have a receiver appointed in respect of any or all of your assets or other steps are taken for your dissolution;

(b) you or we are refused any licences, consents or permits in respect of the Goods or services:

(c) An extraordinary event occurring or a material change affecting the affairs or the financial condition of the purchaser, which gives the company reasonable grounds to conclude that the purchaser may not, or may be unable to, perform or observe its obligations under the contract;

or

(d) you breach any term of these Terms.

11.4 Waiver or variation

Waiver or variation of these Terms by us will only be effective if given in writing by an authorized member of our staff. If we waive any of these Terms the waiver will not affect our rights under these Terms at any future time.

11.5 Severability

Each clause in these Terms is severable and if any clause is held to be illegal or unenforceable then the remaining clauses will remain in full force and effect.

11.6 Governing law

The Contract and these Terms will be interpreted in accordance with and governed by the laws of New Zealand and the New Zealand courts will have non-exclusive jurisdiction in respect of all matters between us.

11.7 The Privacy Act

You and any guarantor (if relevant) authorise us to collect and hold personal information from any source we consider appropriate to be used for the purposes of determining credit worthiness, for communicating promotional activities and product information by us, for debt collection purposes, or for any other related purpose. You further authorise us to disclose personal information held by us for the purposes set out above to any other parties including our subsidiaries, related companies and shareholders. You understand that you have a right of access and may request correction of personal information held by us about you.

11.8 Consumer Guarantees Act (CGA)

If the CGA applies, these terms and conditions shall be read subject to your rights under the CGA, provided that where you are acquiring goods or services for business purposes the CGA shall not apply. Where you on-supply Goods purchased from us to persons for business purposes, you shall, in contracting with those persons, provide that the CGA shall not apply to the extent permitted by law. You shall indemnify us in respect of any failure to comply with this provision.

12 PPSA 1999 and as amended

12.1 Security:

You acknowledge and agree that:

(a) by assenting to these Terms, you grant a security interest (by virtue of the retention of title clause in clause 5 of these Terms) to us in all Goods previously supplied by us to you (if any) and all after acquired Goods supplied by us to you (or for your account); and

(b) these Terms shall apply notwithstanding anything, express or implied, to the contrary contained in your purchase order.

12.2 Financing Statement:

You undertake to

(a) sign any further documents and/or provide any further information (which information you warrant to be complete, accurate and up-to-date in all respects) which we may reasonably require to enable registration of a financing statement or financing change statement on the Personal Property Securities Register;

(b) not register a financing change statement or a change demand in respect of the Goods (as those terms are defined in the PPSA) without our prior written consent; and

(c) give us not less than 14 days prior written notice of any proposed change in your name and/or any other change in your details (including, but not limited to, changes in your address, facsimile number, trading name or business practice). 12.3 Waiver

You waive your right to receive a verification statement in respect of any financing statement or financing change statement relating to the security interest.

12.4 Contracting out

(a) You agree that nothing in sections 114(1)(a), 133 and 134 of the PPSA shall apply to these Terms and, with our agreement, contract out of such sections. (b) To the maximum extent permitted by law you waive your rights and contract out of your rights under the sections referred to in section 107(2)(c) to (e) and (g) to (i) of the PPSA.

13 Notices

Any notice to be given to the customer shall be deemed to be given 48 hours after it being posted by ordinary post or immediately if sent by email, fax or telegram to the physical address, email address or appropriate facsimile number of the customer set out in the contract or to the customer's registered office or to the customer's last known address.

14. Indemnity

The customer shall comply with all instructions of the company in relation to the handling, fitting and installation and use of the equipment and notwithstanding such compliance the customer shall keep the company indemnified against all costs, claims, demand expenses and liabilities of whatsoever nature, including without prejudice to the generality of the foregoing, claims for death, personal injury, damage to property and consequential loss (including loss of profits) which may be made against the company or which the company may sustain, pay, incur as a result of or in connection with the manufacture, sale, export, import or use of the equipment unless such cost, claim, demand, expense or liability shall be directly and solely attributable to the negligence of the company or the negligence of a duly authorised employee or agent of the company

15. Dimensions and Specifications

Dimensions and specification referred to the contract, a catalogue or other publication maintained or issued by the Company are estimates only. Unless it is agreed in writing, it is not a condition of contract that the goods will correspond precisely to the dimensions, specifications or customary tolerances.

16. Health and Safety

The customer shall be responsible to ensure that applicable health and safety regulations are observed and other appropriate steps taken in relation to the storage, handling and use of the equipment and the health and safety of the Company's staff working on the customer's premises.

17 Force majeure The Company shall not be liable to the purchaser for any defect, loss, damage or delay caused by strike, lockout, damage to or breakdown of plant government interference, war, act of war, storm, tempest, fire, flood, riot, explosion, earthquake force majeure or any other cause beyond the reasonable control of the company.

18 We reserve the right to change these terms and conditions of sale at any time and any amendments will be displayed on our website.

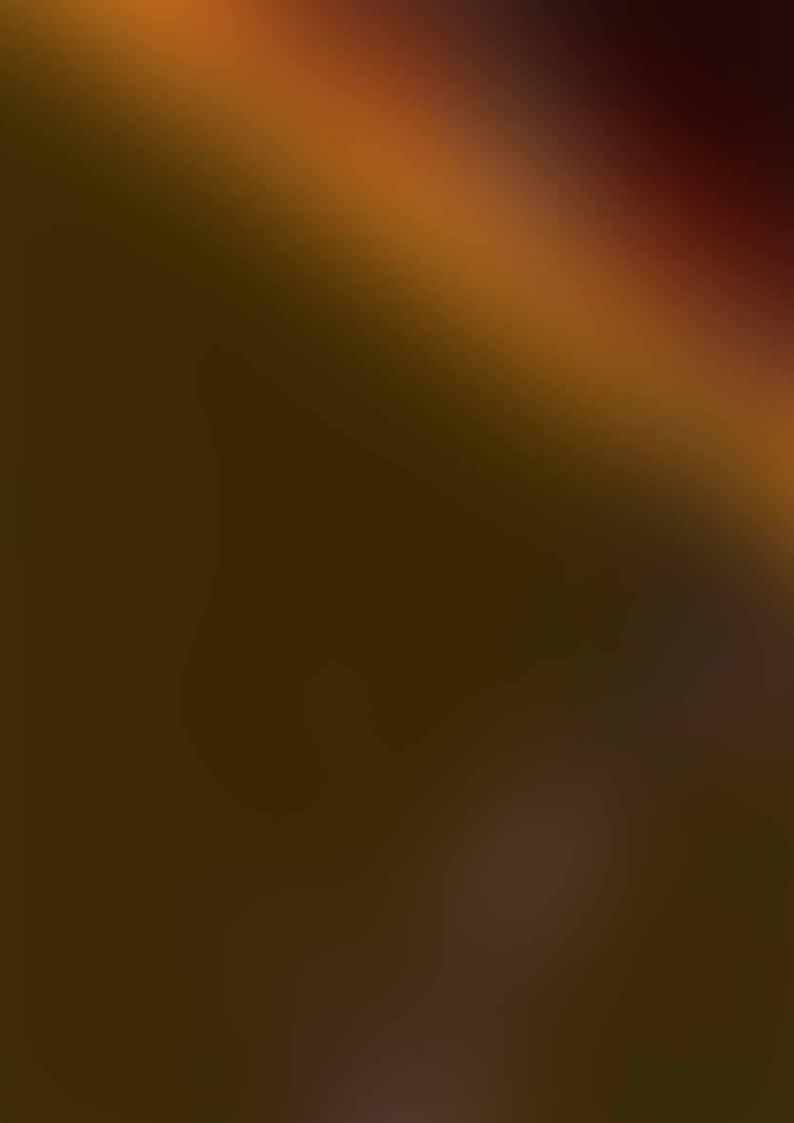
19 Compliance with laws

The Company will comply with all legislation, codes and standards specified in the Contract and the Company is under no liability as a failure to meet any other legislation, codes or standard. If, after the Contract date, there are any changes in any legislation, regulations or standards with which the company must comply, then the Customer agrees to reimburse or pay to the company an amount equal to additional cost incurred by the Company relating to such compliance.

20 The company reserves the right to subcontract the performance of this contract or any part thereof to any other party or person it may determine

21 The customer may not assign or transfer or purport to assign or transfer any of its rights or obligations under or in connection with the contract to any other person whatsoever.

NOTES





Brown Brothers Engineers Ltd

Branches

Christchurch - 197 Durham Street, Christchurch - 8011

Telephone - 03 365 0279Facsimile - 03 366 6616

Auckland - 124A Hugo Johnston Drive, Penrose, Auckland - 1642

■ Telephone - 09 525 8282■ Facsimile - 09 525 8284

Hamilton - 97C Norton Road, Frankton, Hamilton - 3242

Telephone - 07 847 5280Facsimile - 07 847 1580

Wellington - 9 Aglionby Street, Lower Hutt, Wellington - 5045

■ Telephone - 04 570 1500■ Facsimile - 04 570 1499

Dunedin - 10 Timaru Street, Dunedin

■ Telephone - 03 456 2562■ Facsimile - 03 456 2564

Timaru - Unit 6 39 North Street, Timaru

Telephone - 03 683 1686Facsimile - 03 683 1687

■ Website: www.brownbros.co.nz