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Models: **UMDZ750/50/1**
UADZ750/50/1
UMDZ750/50/3
UADZ750/50/3
UADZ750/50/1-FSLC

MODEL NUMBER STRUCTURE

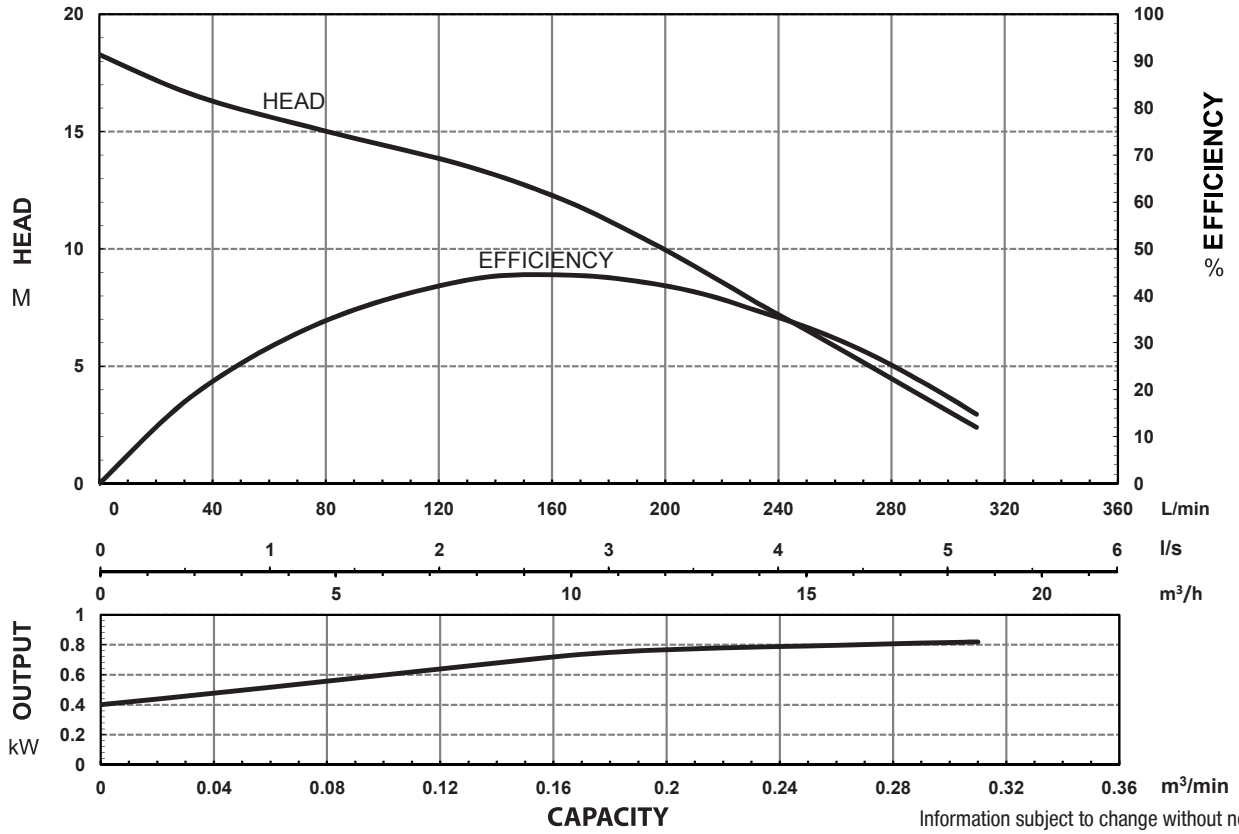
U	Ultraflow
M	'M' indicates Manual, without floatswitch
	'A' indicates Automatic, with floatswitch
D	'D' indicates 'Drainage' series
Z	'Z' indicates series
750	Power consumption in 'Watts'
50	Outlet size
1	'1' indicates 240 volt single phase
	'3' indicates 415 volt three phase

'FSLC' and 'FSV' indicates pump is fitted with a fixed arm bracket for floatswitch models which are used in applications to prevent the floatswitch from interfering with the sides of small pump wells

SPECIFICATIONS

Power	0.75kW / 1.0HP	
Frequency	50Hz	
Discharge	50mm / 2 inch female BSP	
Weight (Excl cable)	18Kg – Single Phase Models	
	17Kg – Three Phase Models	
Solid Passage	7 mm	
Phase	1ø	3ø
Voltage	240	415
Full Load Amps	4.8	1.9
Maximum Liquid Temperature	0-40° C	
Maximum Submersion Depth	30m (100 feet)	
Motor type	Dry motor	
Motor Speed	2 Pole (2800 rpm)	
Motor Insulation	Class B	
Motor Protection	IP68	
Protector	Auto cut	
Motor Bearings	Ball Type	
Seal Method	Dual Mechanical seal	
	Upper: Carbon/Ceramic	
	Lower; Silicon/Silicon	
Impeller Type	Semi-open	
Motor Cover Construction	FC-200 Cast Iron	
Motor Casing Construction	304 Stainless Steel	
Motor Shaft Construction	410 Stainless Steel	
Pump Casing Construction	FC-200 Cast Iron	
Impeller Construction	FC-200 Cast Iron	
Strainer Construction	304 Stainless Steel	
Cable Material	H07RN-F	

PERFORMANCE CURVES



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22-24 Sommerville Circuit, Emu Plains NSW 2750
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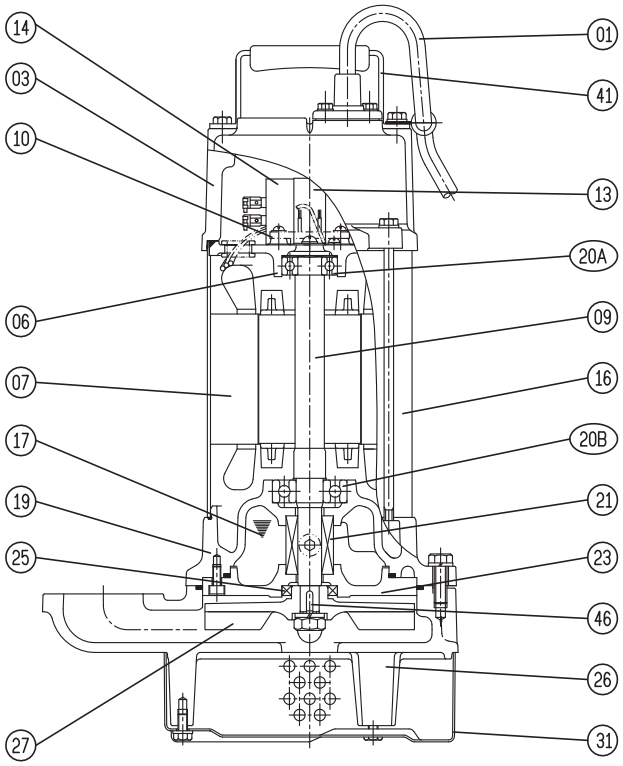
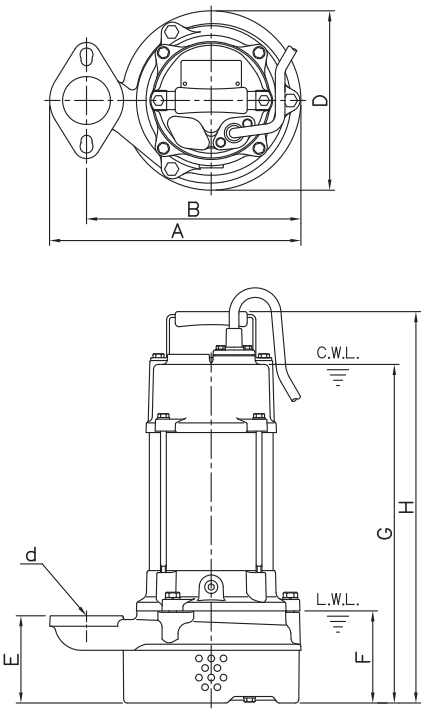
SECTIONAL DRAWING & MATERIALS LIST



PART NUMBER	DESCRIPTION	MATERIAL
01	Cable	HO7RN-F
03	Upper Motor Cap	Cast Iron FC-200
06	Upper Bearing Housing	Cast Iron FC-200
07	Motor Stator	
09	Shaft (With Rotor)	(Shaft) Stainless Steel 410
10	Auto Cut Out Overload	
14	Capacitor (for 240 volt models, transformer relay for UADZ750/50/3)	
16	Motor Casing	304 Stainless Steel
17	Lubricant	Turbine Oil
19	Lower Bearing Housing	Cast Iron FC-200
20A	Upper Bearing	
20B	Lower Bearing	
21	Mechanical Seal	Upper: Carbon/Ceramic Lower: Silicon/Silicon
23	Mechanical Seal Housing	Cast Iron FC-200
25	Oil Seal	Nitrile
26	Pump Casing	Cast Iron FC-200
27	Impeller	Cast Iron FC-200
31	Strainer	304 Stainless Steel
36	Outlet Flange	Cast Iron FC-200
41	Handle	304 Stainless Steel
46	Impeller Key	304 Stainless Steel
47	O'rings	
55	Oil Plug	304 Stainless Steel
FL	Floatswitch	

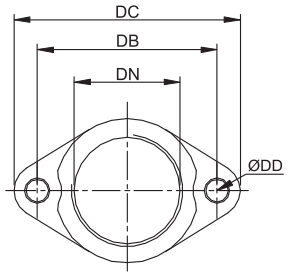
When ordering spare parts as above, simply add the pump model number to the part number from the list above. For example, a power lead (part '01'). the complete spare part name would be written as '01-UADZ750/50/1'.

DIMENSIONAL DRAWING



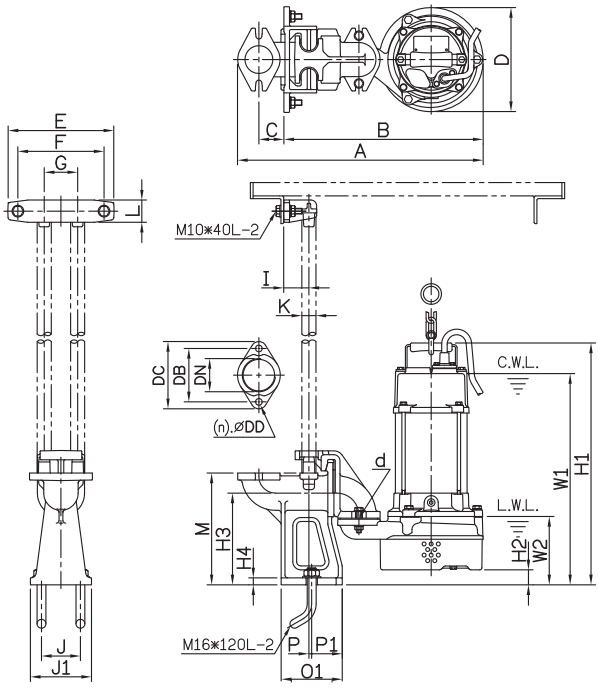
DIMENSIONS - mm							
d	A	B	D	E	F	G	H
50	262	224	187	91	90	353	408

ELBOW (FLANGE) SET



DIMENSIONS - mm			
DN	DB	DC	DD
50	96	121	12

GUIDE RAIL SYSTEM DIMENSIONS USING GR50B GUIDE RAIL KIT



DIMENSIONS - mm																						
d	A	B	C	D	E	F	G	I	J	J1	K	L	M	O1	P	P1	W1	W2	H1	H2	H3	H4
50	443	359	45	187	190	155	60	45	70	110	19	40	201	110	5	55	380	123	435	27	165	13

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Models: **UMCN750/50/1**
UACN750/50/1
UMCN750/50/3
UACN750/50/3
UACN750/50/1-FSLC

MANUAL **AUTOMATIC** **FSLC-FIXED ARM FLOAT****

SPECIFICATIONS

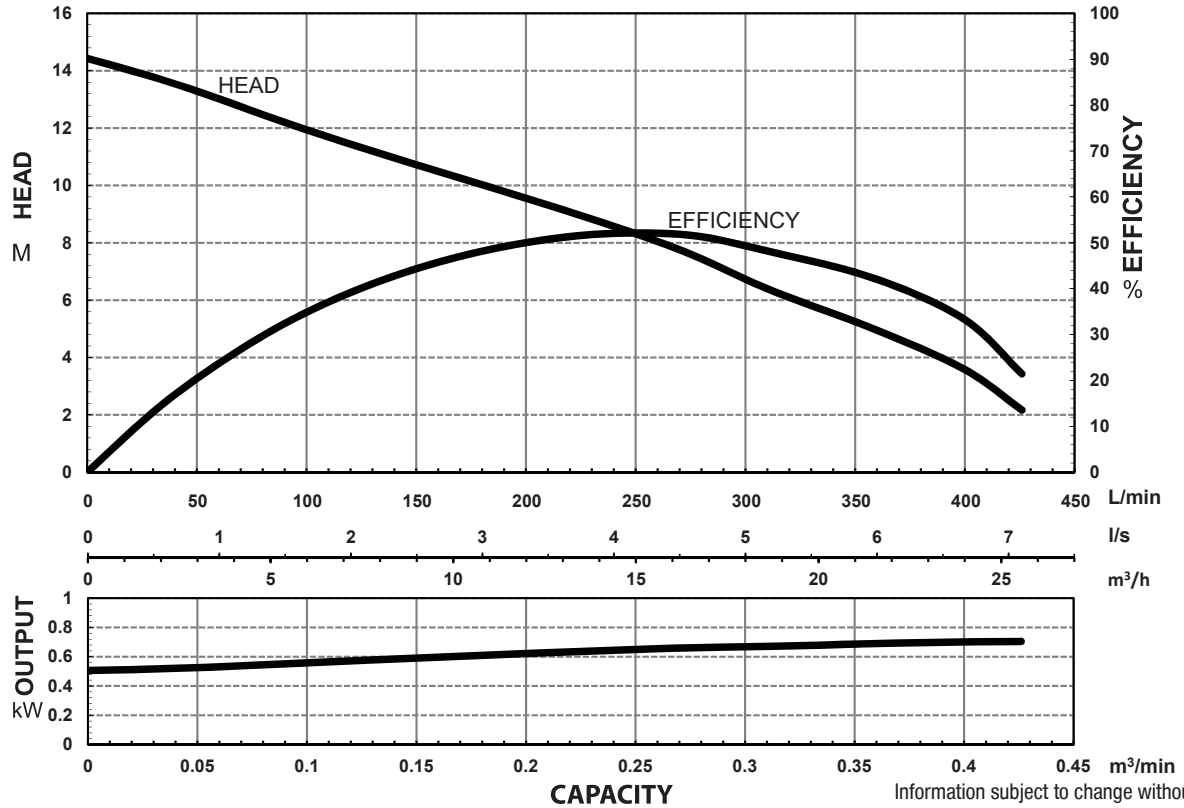
Power	0.75kW / 1.0HP	
Frequency	50Hz	
Discharge	50mm / 2 inch female BSP	
Weight (Excl cable)	18Kg - Single Phase Models	
	17Kg - Three Phase Models	
Solid Passage	26 mm	
Phase	1ø	3ø
Voltage	240	415
Full Load Amps	5.0	1.8
Maximum Liquid Temperature	0-40° C	
Maximum Submersion Depth	30m (100 feet)	
Motor type	Dry motor	
Motor Speed	2 Pole (2800 rpm)	
Motor Insulation	Class B	
Motor Protection	IP68	
Protector	Auto cut	
Motor Bearings	Ball Type	
Seal Method	Dual Mechanical seal	
	Upper: Carbon/Ceramic	
	Lower; Silicon/Silicon	
Impeller Type	Semi Open	
Motor Cover Construction	FC-200 Cast Iron	
Motor Casing Construction	304 Stainless Steel	
Motor Shaft Construction	410 Stainless Steel	
Pump Casing Construction	FC-200 Cast Iron	
Impeller Construction	FC-200 Cast Iron with tungsten cutting tip	
Cable Material	H07RN-F	

MODEL NUMBER STRUCTURE

U	Ultraflow
M	'M' indicates Manual, without floatswitch
	'A' indicates Automatic, without floatswitch
C	'C' indicates 'Cutter' series
N	'N' indicates new series
750	Power consumption in 'Watts'
50	Outlet size
1	'1' indicates 240 volt single phase
	'3' indicates 415 volt three phase

FSLC indicates pump is fitted with a fixed stainless steel arm bracket for floatswitch models which are used in applications to prevent the floatswitch from interfering with the sides of small pump wells

PERFORMANCE CURVES



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Models: **UMCN750/50/1**
UACN750/50/1
UMCN750/50/3
UACN750/50/3
UACN750/50/1-FSLC

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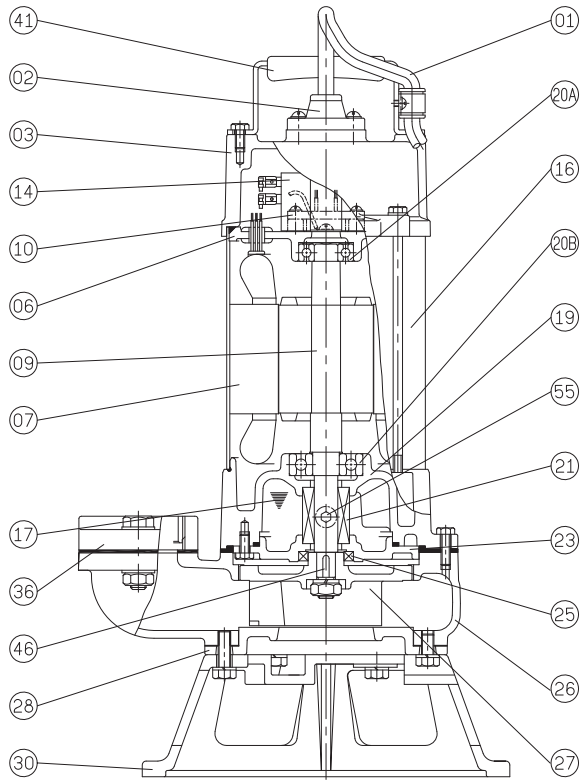
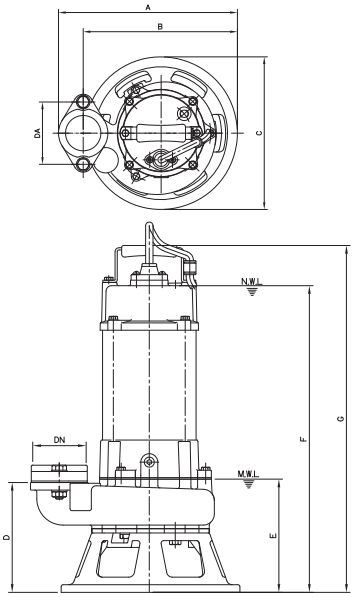
SECTIONAL DRAWING & MATERIALS LIST



PART NUMBER	DESCRIPTION	MATERIAL
01	Cable	HO7RN-F
02	Cable Gland/Base	
03	Upper Motor Cap	Cast Iron FC-200
06	Upper Bearing Housing	Cast Iron FC-200
07	Motor Stator	
09	Shaft With (With Rotor)	(Shaft) Stainless Steel 410
10	Auto Cut Out Overload	
14	Capacitor (240 volt models)	
	Transformer relay for UACN750/50/3)	
16	Motor Casing	304 Stainless Steel
17	Lubricant	Turbine Oil
19	Lower Bearing Housing	Cast Iron FC-200
20A & 20B	Upper Bearing & Lower Bearing	
21	Mechanical Seal	Upper: Carbon/Ceramic
		Lower: Silicon/Silicon
23	Mechanical Seal Housing	Cast Iron FC-200
25	Oil Seal	Nitrile
26	Pump Casing	Cast Iron FC-200
27	Impeller	Cast Iron FC-200
28	Casing Cover	Cast Iron FC-200
30	Base Foot	Cast Iron FC-200
36	Outlet Flange	Cast Iron FC-200
41	Handle	304 Stainless Steel
46	Impeller Key	304 Stainless Steel
47	O'rings	
55	Oil Plug	304 Stainless Steel
FL	Floatswitch	

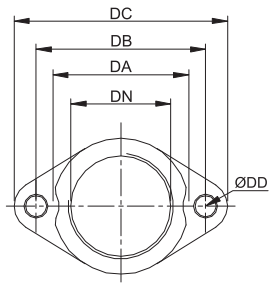
To ordering spare parts as above, it will be necessary to add the model number of the code listed above. For example, a power lead for a UACN750/50/1 would be written as '01- UACN750/50/1'.

DIMENSIONAL DRAWING



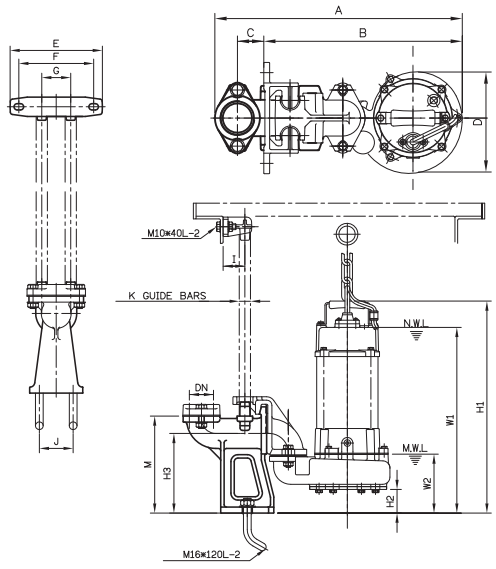
DIMENSIONS								
DN	DA	A	B	C	D	E	F	G
50	96	276	238	235	143	145	406	460

ELBOW (FLANGE) SET



DIMENSIONS - mm				
DN	DA	DB	DC	DD
50	77	96	121	12

GUIDE RAIL SYSTEM DIMENSIONS USING GR50B GUIDE RAIL KIT



DIMENSIONS																
DA	A	B	C	D	E	F	G	I	J	K	M	W1	W2	H1	H2	H3
50	425	341	45	173	190	155	60	50	60	19	201	381	110	435	53	165

PUMP BASE FOOT TO BE DETACHED FOR GUIDE RAIL APPLICATIONS

Information subject to change without notice.

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ultraflow™

Models: **UMDZ750/50/1**
UADZ750/50/1
UMDZ750/50/3
UADZ750/50/3
UADZ750/50/1-FSLC

MODEL NUMBER STRUCTURE

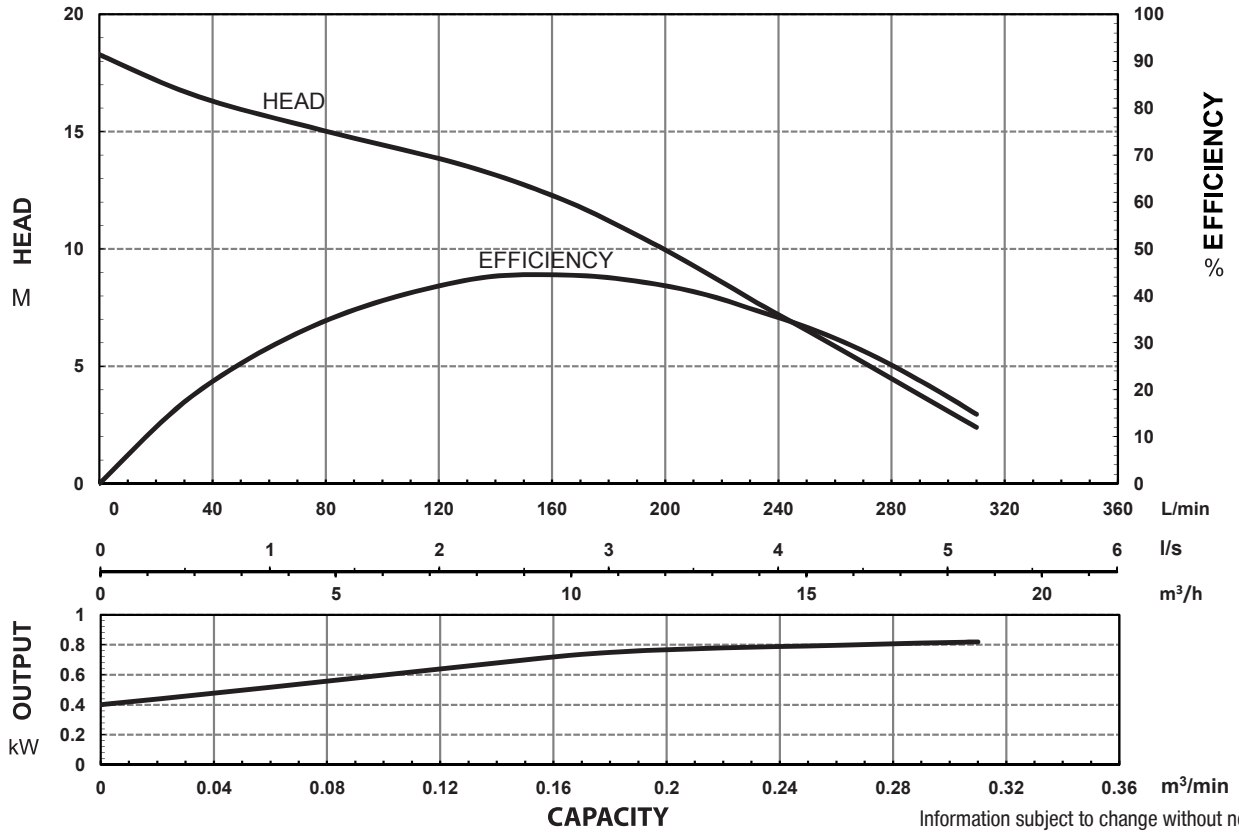
U	Ultraflow
M	'M' indicates Manual, without floatswitch
	'A' indicates Automatic, with floatswitch
D	'D' indicates 'Drainage' series
Z	'Z' indicates series
750	Power consumption in 'Watts'
50	Outlet size
1	'1' indicates 240 volt single phase
	'3' indicates 415 volt three phase

'FSLC' and 'FSV' indicates pump is fitted with a fixed arm bracket for floatswitch models which are used in applications to prevent the floatswitch from interfering with the sides of small pump wells

SPECIFICATIONS

Power	0.75kW / 1.0HP	
Frequency	50Hz	
Discharge	50mm / 2 inch female BSP	
Weight (Excl cable)	18Kg – Single Phase Models	
	17Kg – Three Phase Models	
Solid Passage	7 mm	
Phase	1ø	3ø
Voltage	240	415
Full Load Amps	4.8	1.9
Maximum Liquid Temperature	0-40° C	
Maximum Submersion Depth	30m (100 feet)	
Motor type	Dry motor	
Motor Speed	2 Pole (2800 rpm)	
Motor Insulation	Class B	
Motor Protection	IP68	
Protector	Auto cut	
Motor Bearings	Ball Type	
Seal Method	Dual Mechanical seal	
	Upper: Carbon/Ceramic	
	Lower; Silicon/Silicon	
Impeller Type	Semi-open	
Motor Cover Construction	FC-200 Cast Iron	
Motor Casing Construction	304 Stainless Steel	
Motor Shaft Construction	410 Stainless Steel	
Pump Casing Construction	FC-200 Cast Iron	
Impeller Construction	FC-200 Cast Iron	
Strainer Construction	304 Stainless Steel	
Cable Material	H07RN-F	

PERFORMANCE CURVES



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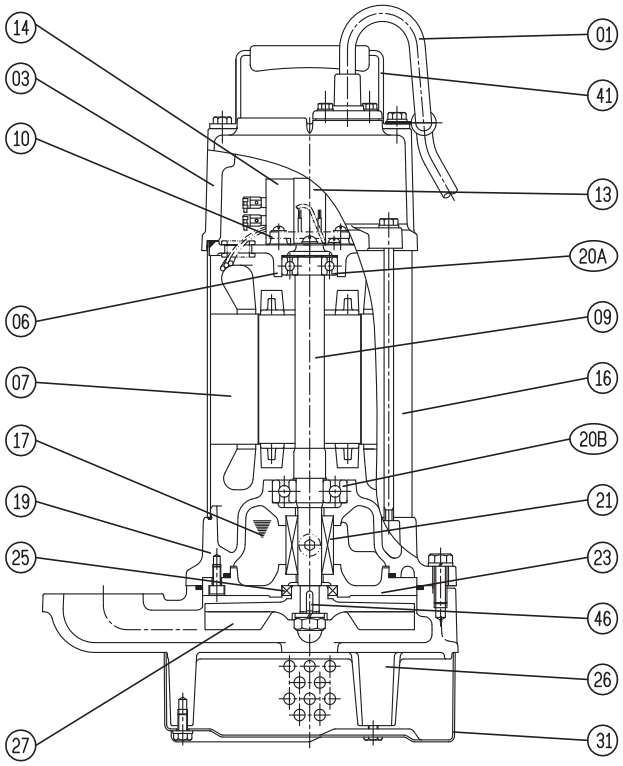
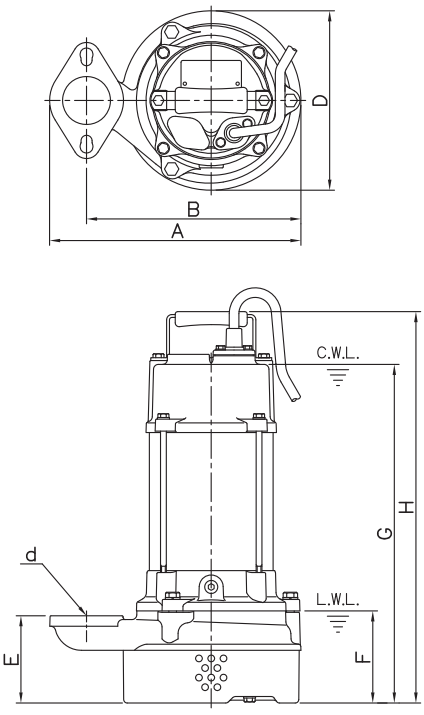
SECTIONAL DRAWING & MATERIALS LIST



PART NUMBER	DESCRIPTION	MATERIAL
01	Cable	HO7RN-F
03	Upper Motor Cap	Cast Iron FC-200
06	Upper Bearing Housing	Cast Iron FC-200
07	Motor Stator	
09	Shaft (With Rotor)	(Shaft) Stainless Steel 410
10	Auto Cut Out Overload	
14	Capacitor (for 240 volt models, transformer relay for UADZ750/50/3)	
16	Motor Casing	304 Stainless Steel
17	Lubricant	Turbine Oil
19	Lower Bearing Housing	Cast Iron FC-200
20A	Upper Bearing	
20B	Lower Bearing	
21	Mechanical Seal	Upper: Carbon/Ceramic Lower: Silicon/Silicon
23	Mechanical Seal Housing	Cast Iron FC-200
25	Oil Seal	Nitrile
26	Pump Casing	Cast Iron FC-200
27	Impeller	Cast Iron FC-200
31	Strainer	304 Stainless Steel
36	Outlet Flange	Cast Iron FC-200
41	Handle	304 Stainless Steel
46	Impeller Key	304 Stainless Steel
47	O'rings	
55	Oil Plug	304 Stainless Steel
FL	Floatswitch	

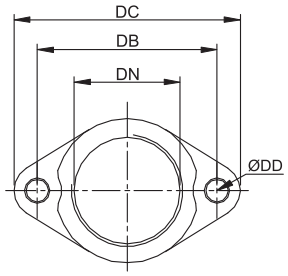
When ordering spare parts as above, simply add the pump model number to the part number from the list above. For example, a power lead (part '01'). the complete spare part name would be written as '01-UADZ750/50/1'.

DIMENSIONAL DRAWING



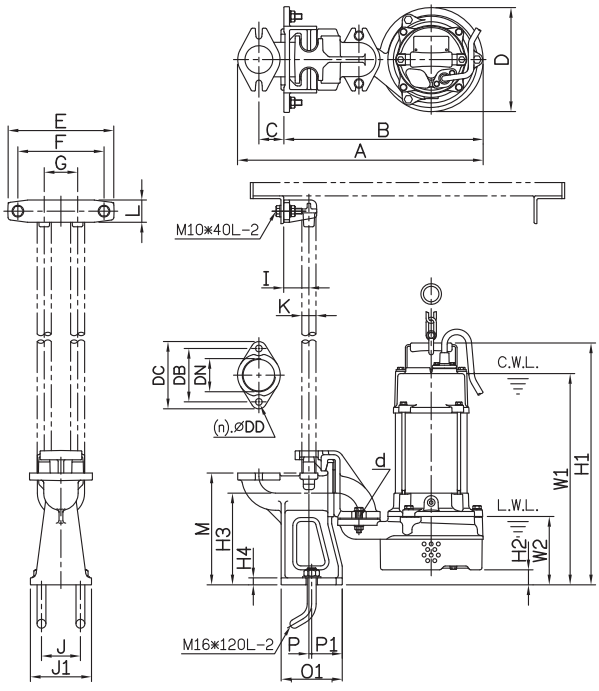
DIMENSIONS - mm							
d	A	B	D	E	F	G	H
50	262	224	187	91	90	353	408

ELBOW (FLANGE) SET



DIMENSIONS - mm			
DN	DB	DC	DD
50	96	121	12

GUIDE RAIL SYSTEM DIMENSIONS USING GR50B GUIDE RAIL KIT



DIMENSIONS - mm																						
d	A	B	C	D	E	F	G	I	J	J1	K	L	M	O1	P	P1	W1	W2	H1	H2	H3	H4
50	443	359	45	187	190	155	60	45	70	110	19	40	201	110	5	55	380	123	435	27	165	13

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SEWAGE GRINDER
SUBMERSIBLE PUMPS

UM/UAGN1000/32/1
UM/UAGN1000/32/3
UAGN1000/32/1-FSLC

UM/UAGN1500/32/1
UAGN1500/32/3
UAGN1500/32/1-FSLC

UMGN1500/32/3
UMGN2200/32/3

UMGN1500/SEG/1
UMGN1500/SEG/3
UMGN2200/SEG/3

UMGN2200/50/3
UMGN3700/50/3

GUIDE RAIL SYSTEM

FEATURES

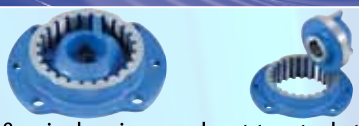
- CE & ISO 9001 certified
- All metal construction
- Dual mechanical seal + lip seal in oil bath
- Silicon carbide faces to lower seal
- Double bearing at lower end of electric motor
- Capacitors & relays for 240 volt models are built in motor cap
- Can be installed with a guide rail system
- Anti-wicking, epoxy filled cabled gland

APPLICATIONS

GRIND AND PUMP

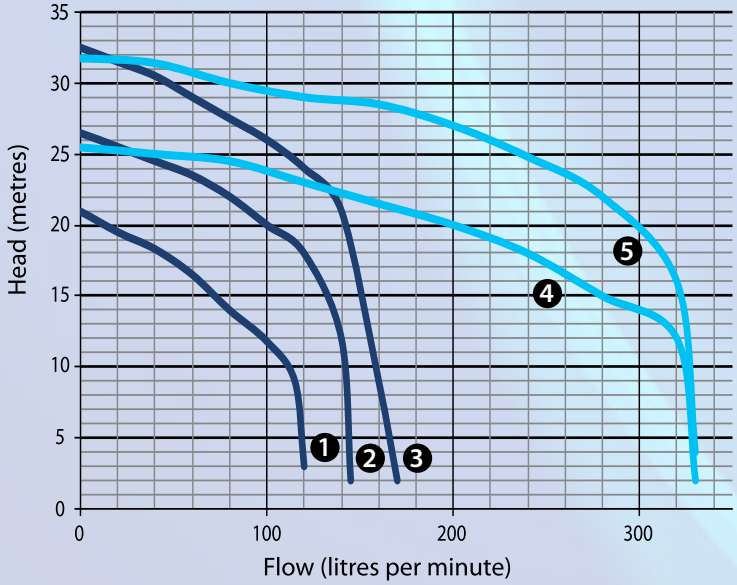
- Raw sewage
- Non-abrasive sludges & slurries
- Agricultural liquid wastes
- Trade waste disposal
- Liquid with soft solids
- For applications with high static heads &/or long distances

GRINDER & GRINDER RING



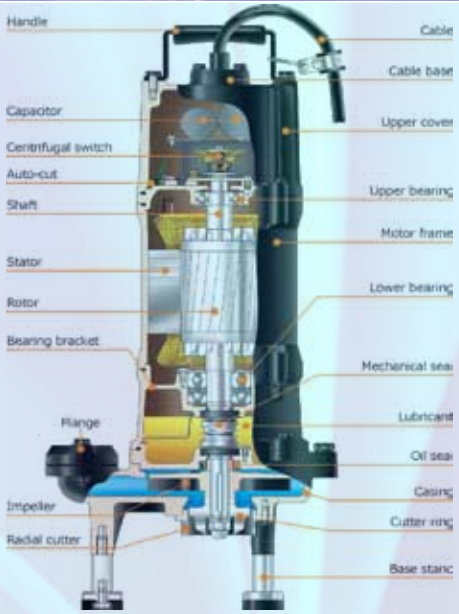
Grinder & grinder ring are heat treated stainless steel, hardened to 55-60 Rockwell 'C'

PERFORMANCE CURVES



1. UM/UAGN1000/32/1, UM/UAGN1000/32/3, UAGN1000/32/1-FSLC
2. UM/UAGN1500/32/1, UM/UAGN1500/32/3 UAGN1500/32/1-FSLC, UMG1500/SEG/1 UMG1500/SEG/3
3. UMGN2200/32/3 UMGN2200/SEG/3
4. UMGN2200/50/3
5. UMGN3700/50/3

CROSS-SECTION



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SEWAGE GRINDER
SUBMERSIBLE PUMPS

MATERIALS

POWER CABLE	HO7RN
HANDLE	304 grade stainless steel
MOTOR CAP & CASING	Cast iron
SEAL HOUSING	Cast iron
DUAL MECHANICAL SEAL	Silicon carbide faces to lower seal, carbon ceramic faces to upper seal, nitrile elastomers
LIP SEAL	Nitrile
IMPELLER	Cast iron
CASING & COVER PLATE	Heat treated stainless steel hardened to Rockwell 'C'
SHAFT	304 grade stainless steel
FASTENERS	304 grade stainless steel

ELECTRICAL DATA

MODEL	VOLTS	kW	FULL LOAD AMPS	RPM	IP	CABLE LENGTH
UMG/UAGN1000/32/1 (& FSLC)	240	1.0	6.4	2900	68	10m
UMG/UAGN1000/32/3	415	1.0	2.3	2900	68	10m
UMG/UAGN1500/32/1 (& FSLC)	240	1.5	9.8	2900	68	10m
UMG/UAGN1500/32/3	415	1.5	3.4	2900	68	10m
UMGN1500/SEG/1	240	1.5	9.8	2900	68	10m
UMGN1500/SEG/3	415	1.5	3.4	2900	68	10m
UMGN2200/32/3	415	2.2	4.8	2900	68	10m
UMGN2200/SEG/3	415	2.2	4.8	2900	68	10m
UMGN2200/50/3	415	2.2	5.2	2900	68	10m
UMGN3700/50/3	415	3.7	7.7	2900	68	10m

DIMENSIONS & WEIGHT

MODEL	DISCHARGE	LENGTH	WIDTH	HEIGHT	WEIGHT
UMG/UAGN1000/32/1	32mm	249mm	177mm	555mm	28kg
UMGN1000/32/3	32mm	249mm	177mm	530mm	25kg
UAGN1000/32/3	32mm	249mm	177mm	555mm	28kg
UAGN1000/32/1-FSLC	32mm	299mm	177mm	555mm	28kg
UMG/UAGN1500/32/1	32mm	285mm	203mm	597mm	36kg
UAGN1500/32/3	32mm	285mm	203mm	597mm	36kg
UMGN1500/32/3	32mm	285mm	203mm	546mm	33kg
UAGN1500/32/1-FSLC	32mm	335mm	203mm	597mm	36kg
UAGN1500/SEG/1	DN40	255mm	203mm	596mm	36kg
UMGN1500/SEG/3	DN40	255mm	203mm	546mm	33kg
UMGN2200/32/3	32mm	285mm	203mm	546mm	35kg
UMGN2200/SEG/3	DN40	255mm	203mm	546mm	35kg
UMGN2200/50/3	50mm	393mm	243mm	543mm	51kg
UMGN3700/50/3	50mm	393mm	243mm	543mm	53kg

Information subject to change without notice.

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Email: sales@ultraflowaustralia.com.au Web: www.ultraflowaustralia.com.au

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WASTEWATER VORTEX
SUBMERSIBLE PUMPS

UM/UAVN400/50/1
UM/UAVN400/50/3
UAVN400/50/1 – FSLC
UM/UAVN750/50/1
UM/UAVN750/50/3
UAVN750/50/1 – FSLC

UM/UAVN1500/80/1
UM/UAVN1500/80/3

UM/UAVNLS1500/80/1
UM/UAVNLS1500/80/3
UMVN2200/80/3

UMVN3700/80/3

UMVN5500/100/3

GUIDE RAIL SYSTEM

FEATURES

- CE & ISO 9001 certified
- All metal construction
- Dual mechanical seal + lip seal in oil bath
- Silicon carbide faces to lower seal
- Capacitors & relays for 240 volt models are built in motor cap
- Can be installed with a guide rail system
- Anti-wicking, epoxy filled cabled gland

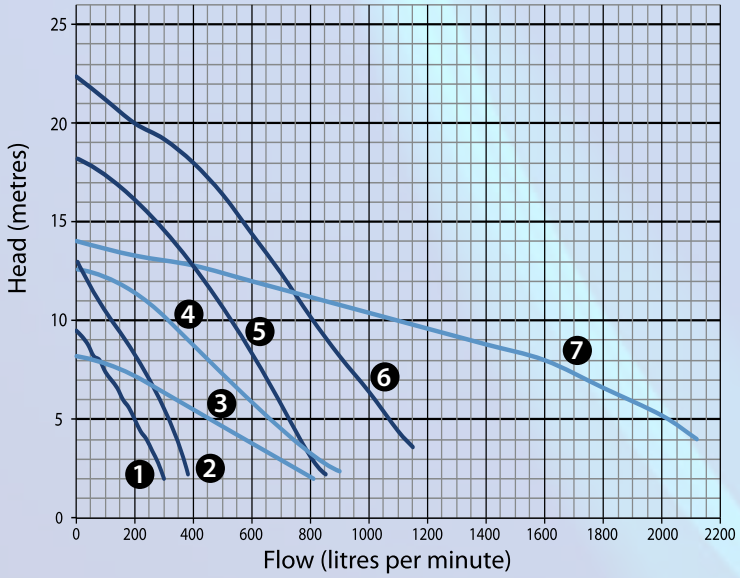
APPLICATIONS

- Raw sewage transfer
- Light sludges and slurries
- Trade waste disposal
- Grey water and septic transfers
- Pumping liquids with soft solids

VORTEX IMPELLER

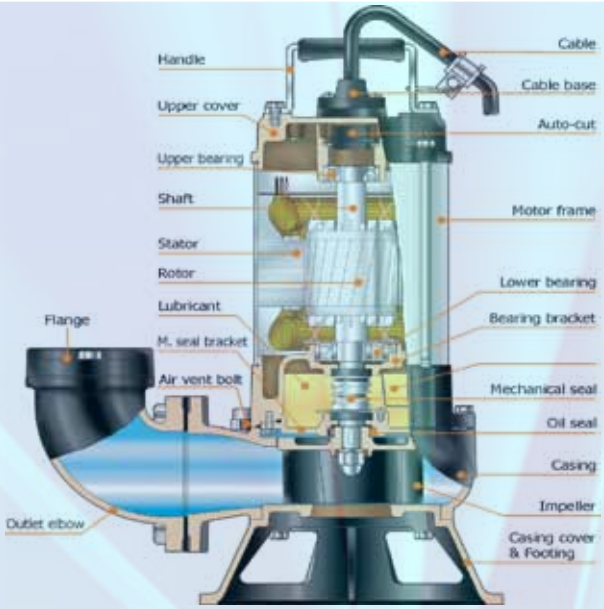
Vortex open bladed impeller
for handling soft solids

PERFORMANCE CURVES



1. UM/UAVN400/50/1, UM/UAVN400/50/3, UAVN400/50/1 – FSLC
2. UM/UAVN750/50/1, UM/UAVN750/50/3, UAVN750/50/1 - FSLC
3. UM/UAVNLS1500/80/1, UM/UAVNLS1500/80/3
4. UM/UAVN1500/80/1, UM/UAVN1500/80/3
5. UM/UAVN2200/80/3
6. UMVN3700/80/3
7. UMVN5500/100/3

CROSS-SECTION



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WASTEWATER VORTEX
SUBMERSIBLE PUMPS

MATERIALS

POWER CABLE	HO7RN
HANDLE	304 grade stainless steel Cast iron for UMVN5500/100/3
MOTOR CASING	304 grade stainless steel for 0.4kW, 0.75kW, & 1.5kW models Cast iron for 1.5kW 'LS' series, 2.2kW, 3.7kW & 5.5kW models
MOTOR CAP	Cast iron
SEAL HOUSING	Cast iron
DUAL MECHANICAL SEAL	Silicon carbide faces to lower seal, carbon ceramic faces to upper seal, nitrile elastomers.
LIP SEAL	Nitrile
CASING & COVER PLATE	Cast iron
IMPELLER	Cast iron
SHAFT	304 grade stainless steel

ELECTRICAL DATA

MODEL	VOLTS	kW	FULL LOAD AMPS	RPM	IP	CABLE LENGTH
UM/UAVN400/50/1 (& FSLC)	240	0.4	3.2	2900	68	10m
UM/UAVN400/50/3	415	0.4	1.3	2900	68	10m
UM/UAVN750/50/1 (& FSLC)	240	0.75	5.0	2900	68	10m
UM/UAVN750/50/3	415	0.75	1.8	2900	68	10m
UM/UAVN1500/80/1	240	1.5	9.8	2900	68	10m
UM/UAVN1500/80/3	415	1.5	3.4	2900	68	10m
UM/UAVNLS1500/80/1	240	1.5	9.8	2900	68	10m
UM/UAVNLS1500/80/3	415	1.5	3.4	2900	68	10m
UM/UAVN2200/80/3	415	2.2	4.8	2900	68	10m
UM/UAVN3700/80/3	415	3.7	7.7	2900	68	10m
UM/UAVN5500/100/3	415	5.5	12.0	1440	68	10m

DIMENSIONS & WEIGHT

MODEL	DISCHARGE	MAX SOLID SIZE	LENGTH	WIDTH	HEIGHT	WEIGHT
UM/UAVN400/50/1	50mm	35mm	237mm	154mm	427mm	16kg
UM/UAVN400/50/3	50mm	35mm	237mm	154mm	427mm	16kg
UAVN400/50/1- FSLC	50mm	35mm	287mm	154mm	427mm	16kg
UM/UAVN750/50/1	50mm	35mm	237mm	154mm	427mm	18kg
UM/UAVN750/50/3	50mm	35mm	237mm	154mm	427mm	18kg
UAVN750/50/1-FSLC	50mm	35mm	287mm	154mm	427mm	18kg
UM/UAVN1500/80/1	80mm	25mm	408mm	258mm	610mm	43kg
UMVN1500/80/3	80mm	25mm	408mm	258mm	530mm	38kg
UAVN1500/80/3	80mm	25mm	408mm	258mm	610mm	43kg
UM/UAVNLS1500/80/1	80mm	76mm	443mm	255mm	700mm	43kg
UMVNLS1500/80/3	80mm	76mm	443mm	255mm	622mm	39kg
UAVNLS1500/80/3	80mm	76mm	443mm	255mm	700mm	43kg
UMVN2200/80/3	80mm	50mm	379mm	202mm	524mm	38kg
UAVN2200/80/3	80mm	50mm	379mm	202mm	607mm	45kg
UMVN3700/80/3	80mm	56mm	478mm	220mm	588mm	56kg
UMVN5500/100/3	100mm	65mm	687mm	405mm	795mm	131kg

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