

FLO-KWIP

CONTRACTOR SUBMERSIBLE PUMPS



AR SERIES

**ABRASION RESISTANT,
STRONG, AND LOW WEIGHT**

**DRAINAGE / DEWATERING PUMPS
FOR CIVIL CONSTRUCTION, QUARRIES, MINES...**

FLO-KWIP AR SERIES

Contractor Submersible Pumps

Features And Materials

Design Features Standard Across The Range

For the harsh demanding duties of construction sites, quarries, mines etc.

1. Pump Outer Casing and Castings in Aluminium and/or Galvanised Steel for light-weight and strength
2. Quality, reliable motor
Insulation: Class F (+155c), IEC 85 Squirrel case induction motors. Single phase motors include built-in capacitor. Built-in contactor standard on all 3-phase models (except largest model - AR540)
3. Stainless steel shafts and fasteners.
4. Impeller in Cr – Alloyed white cast iron, 55RC for excellent wear resistance.
5. Wear parts in Natural rubber.
6. Top Discharge and Cooling Jacket (outer casing) provides effective cooling whenever water is being pumped – even when pump is only partially submerged.

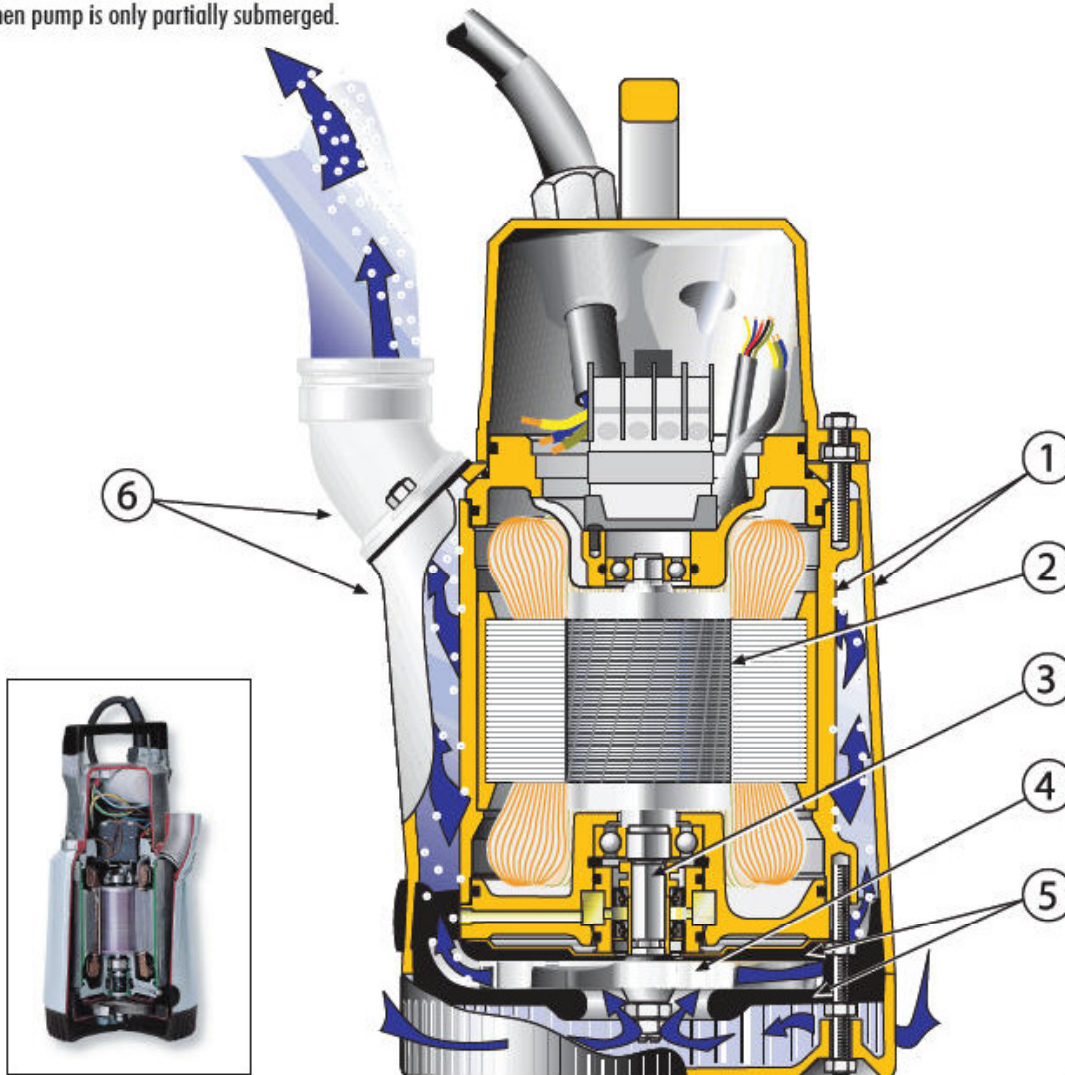
Plus: -

- Adjustable wear parts
- Robust design
- Protection Class IP68
- Motor Protection: Thermal switch in each winding (135c)
- Seals designed and proven to suit each model for long life, fast service and cost effectiveness

Cable – oil and wear resistant rubber cable type H07RN-F

Designed for:

- Heavy duty pumping of abrasive, dirty or clean water. Not for flammable liquids.
- Max submersible depth is 20m, Max temperature of pumped liquid +40c. Max density of liquid 1.100 kg / m³. Ph of liquid between 5 to 8



FLO-KWIP AR SERIES

Contractor Submersible Pumps

Pumps for the arduous conditions of General and Civil Construction Site Dewatering, Rental Companies, Quarries and Mining industries, Municipal Utilities, Fire Brigades, Navy, Shipyards, Fish Farms etc.

For Operators who wish to Optimise Performance / Weight Ratio, Quality / Cost, And Ease Of Maintenance / Working Life.

Manufactured in Europe, with the benefit of many years experience in pump manufacture and proven internationally in a host of applications, FLO-KWIP AR Contractor Submersible Pumps are an excellent combination of User-Friendliness, Durability, Ease - of - Maintenance, Quality, and Cost Effectiveness for Plant Owners and Operators who require a pump that is Simply Better.



1. User Friendliness

Ease of portability due to

- Aluminium and/or Galvanised Steel pump casings, quality componentry and efficient compact design, resulting in Pumps that are significantly lighter than traditional Cast Iron construction.
- 15m cable length on AR10, 20m standard on all other models.
- Available in Manual or Auto versions – Auto with Float or Electronic level control
- Top Discharge provides Motor cooling even when used for low-level pump – out
- Accessories – a range of special accessories is available for enhanced Versatility.
- Easier to Handle, Service and Install

2. Durability & Reliability

Abrasion Resistance – Chrome Alloy Impellers 55Rc, and Rubber wear parts. Shaft and hardware in stainless steel. Adjustable wear parts. Designed to meet harsh "real life" requirements pumping water containing sand, clay, drill cuttings, rock fines etc.

3. Serviceability

Ease of Maintenance, inexpensive service, along with extended working life, is a key feature integral to the FLO-KWIP AR Pump design. Extensive experience confirms the practical effectiveness of seal design selected specifically to suit pump size for long life, economical service and low weight.

4. Quality/Cost Effectiveness

Quality components, design and construction, along with compactness, efficiency and economical maintenance produce a reliable range of pumps that represent a sound investment for contractors and rental companies.



Comprehensive Range:

Flow rates from 100 to 18,000 Litres / min,
Discharge Ports from 50mm (2") to 250mm (10").
Heads to 82m
(or more with Serial Couplings).

SEE ACCESSORIES
AND OPTIONS
ON BACK PAGE

FLO-KWIP AR SERIES

Product Code - AR Series

Eg. **AR 20** **L** - **A** **3** - **75H**

Series
Rated Power Output
/ 100 watts
(20 = 2.0 KW)

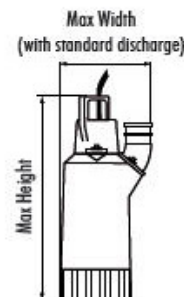
Version
L = Low Head
M = Medium Head
H = High Head

Control
A = Auto
M = Manual

Phase
1 = Single Phase
3 = 3 Phase

Discharge Fitting (mm)
H = Standard Hose - type fitting
T = Threaded MBSP

Product Dimensions
Weights shown
are without cable



AR10

Models

AR10M - Medium Head, Auto or Manual, Single Phase or 3-Ph
eg: AR10M - A1-50H

Discharge Connections
Standard: 50mm (2") Hose-type
Options: 1 1/2" or 2", hose or MBSP

Cable: 15M Max Solids: 4mm

Motor, 1.0KW, 2900RPM
230v/1ph: Rated Current 6.4A
400v/3ph: 2.0A

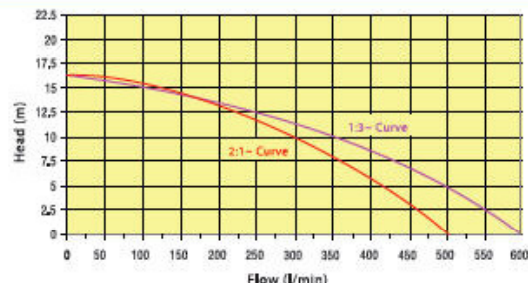
Shaft Seal

Primary and secondary grease lubricated lip seals against wear - sleeve of tungsten carbide. Proven and effective.



Dimensions

Max Width: 217mm, Max Height: 380mm, Weight: 12.5kg



AR20

Models:

AR20L - Low Head (High Volume),
AR20M - Medium Head
Auto or Manual, 1-ph or 3ph

Eg. AR20M - A1 - 75H
Discharge Connections
Std: 75mm (3") Hose - type
Options: 3" or 4", Hose or MBSP
Cable: 20m
Max Solids: 9mm

Motor: 2.0 kw, 2900rpm
230v/1-ph/12A
400v/3-ph/4.2A

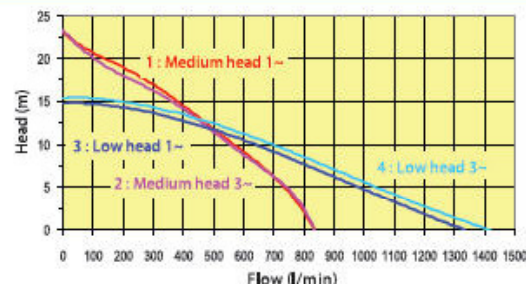
Shaft Seal

Double seals with oil compartment
Primary seal: Silicon carbide against silicon carbide.
Secondary seal: Lip seal



Dimensions

Max Width: 310mm, Weight: 20kg
Max Height: Low Head 475 mm, Medium Head 500 mm



AR30

Models:

AR30M Medium Head, 3-phase,
Auto, Manual.

Eg: AR30M - A3 - 75H
Discharge Connections
Std: 75mm (3") Hose
Options: 75mm (3") or
100mm (4") Hose or MBSP
Cable: 20M
Max Solids: 9mm

Motor: 3.0kw / 400v / 3ph / 50hz,
5.3A, 2900RPM

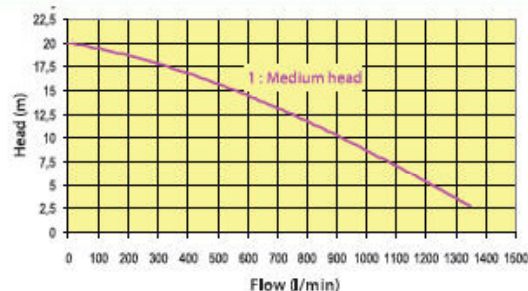
Shaft Seal

Double seals with oil compartment
Primary seal: Silicon carbide against silicon carbide
Secondary seal: Lip seal



Dimensions

Max Width: 310mm, Max Height: 475mm, Weight: 25kg



AR47

Models:

AR47L Low Head / High Volume
AR47M Medium Head
AR47H High Head

Auto/Man, 3 phase
Eg: AR47M - A3 - 100H
Discharge Connections: Std: AR47L & AR47M:
100mm (4"), Hose, AR47H: 75mm (3") Hose
Options: 3" or 4" Hose, 3"
or 4" MBSP Threaded
Cable: 20M
Max Solids: 6mm

Motor: 4.7KW, 3PH,
400V, 2900 RPM, 8.5A

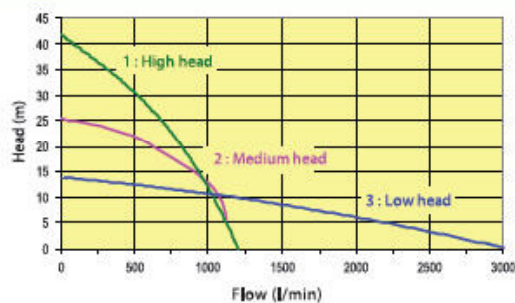
Shaft Seal

Primary seal: Silicon carbide against silicon carbide.
Secondary seal: Silicon carbide against silicon carbide.



Dimensions

Max Width: 330mm, Max Height: AR47L&M: 760 mm, AR47H: 810 mm
Weight: L&M: 55kg, H: 63kg



AR75

Models

AR75M – Medium Head, AR75H – High Head, Auto / Man, 3ph
 Eg: AR75M – A3 – 100H
 Discharge: Std: AR75M 100mm(4") Hose, A75H: 75mm (3") Hose
 Options: 3" or 4" Hose, 3" or 4" MBSP
 Motor: 7.5KW/ 400V, 2900 RPM, 16A
 Cable: 20m
 Max Solids: 6mm

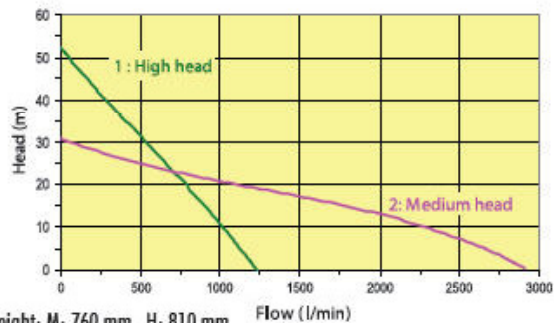
Shaft Seal

Primary seal: Silicon carbide against silicon carbide.
 Secondary seal: Carbon/Ceramic



Dimensions

Max Width: 330mm, Max Height: M: 760 mm, H: 810 mm
 Weight: M:55kg, H:63kg



AR118

Models

AR118L – Low Head, AR118H – High Head, Auto / Man, 3ph
 Eg: AR118L – A3 – 150H
 Motor: 11.8KW / 400V / 3ph, 2900RPM, 23A
 Discharge: Std – L: 150mm (6") Hose
 H: 100mm (4"), Options 4" or 6" Hose or BSP
 Cable: 20m Max Solids: 7mm

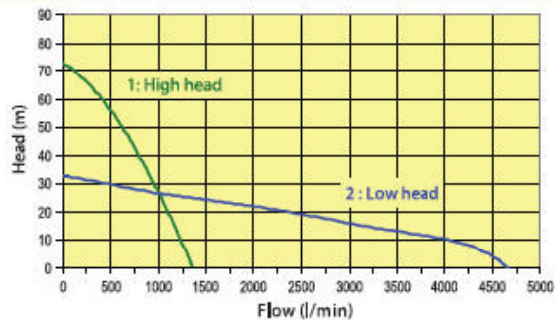
Shaft Seal

Double mechanical seals with oil compartment.
 Primary seal: Tungsten carbide/Ceramic
 Secondary seal: Carbon/Ceramic



Dimensions

Max Width: 410mm,
 Max Height: 915 mm, Weight: 95kg



AR265

Models

AR265M - Medium Head Auto / Man, 3ph,
 AR265H - High Head Auto / Man, 3ph
 Motor: 26.5 KW / 400V, 3PH, 2900RPM, 46A
 Discharge: Standard:
 150mm(6") Hose Type for AR265M
 100MM(4") Hose Type for AR265H
 Options: 4" & 6", Hose or BSP
 Cable: 20m Max Solids: To 7mm

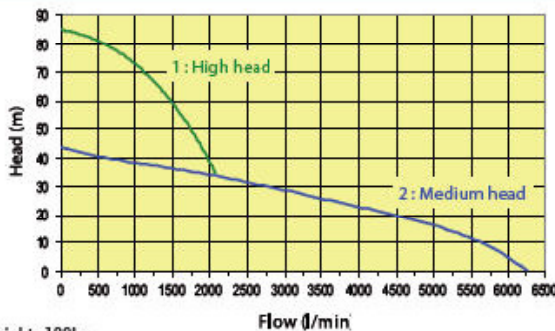
Shaft Seal

Double mechanical seals with oil compartment.
 Primary seal: Tungsten / Ceramic
 Secondary seal: Carbon / Silicon carbide.



Dimensions

Max Width: 452mm,
 Max Height: 1080 mm, Weight: 180kg



AR540

Models

AR540M – Medium Head, Auto(Electronic) / Man, 3ph
 Motor: 54 KW / 415V, 3PH/50HZ, 1450RPM, 100A
 Cables: 20m Max Solids: 12mm

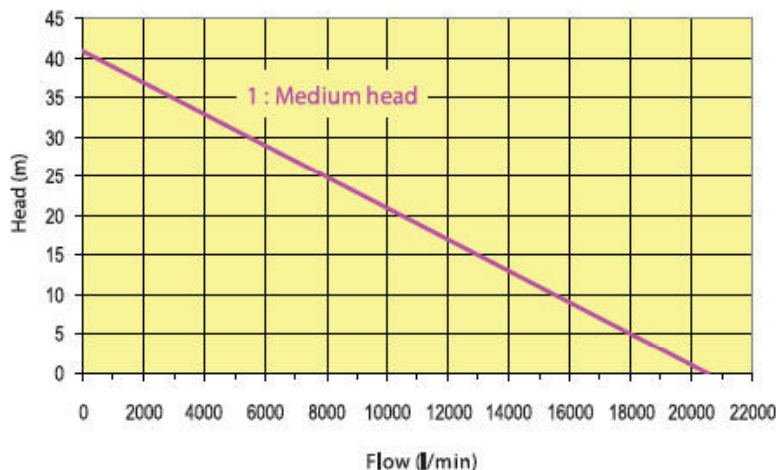
Shaft Seal

Double mechanical seals with oil compartment.
 Primary seal: Tungsten carbide against ceramic seal.
 Secondary seal: Carbon seal against silicon carbide.



Dimensions

Max Width: 600mm,
 Max Height: 1435 mm
 Weight: 510kg



Options

OPTIONAL DISCHARGE CONNECTIONS: - choice of discharge fittings for each pump. Options on size (diameters), hose – type or threaded BSP.

AUTO OR MANUAL OPERATIONS

Depending on model, Auto may be by Float Level switch or Electronic Level Control.

Accessories

Low-level band - Low suction collar

can be fitted to some models to enable pumping down to very low levels. Ideal for foundations, cellars etc.

Serial Couplings

to facilitate higher head capability, 2 (or more) pumps can be connected in series with the serial coupling.

Non-Return Valve

recommended on many applications including high head or long discharge runs to prevent liquid from running back into the pump.

Fire Brigade / Quick Couplings

Also: Zinc Anodes and / or Epoxy coating for assistance with corrosion protection.

Starters

External or Built-in Y/D starter available on some models.



Fire Brigade Couplings



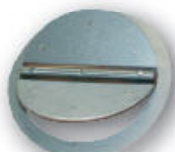
Threaded Discharge



Stainless Steel Strainers



Floor level band



Non-Return Valve



Serial coupling

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