



VARMINE H₂O SOLUTIONS

"Let's Decode Water"

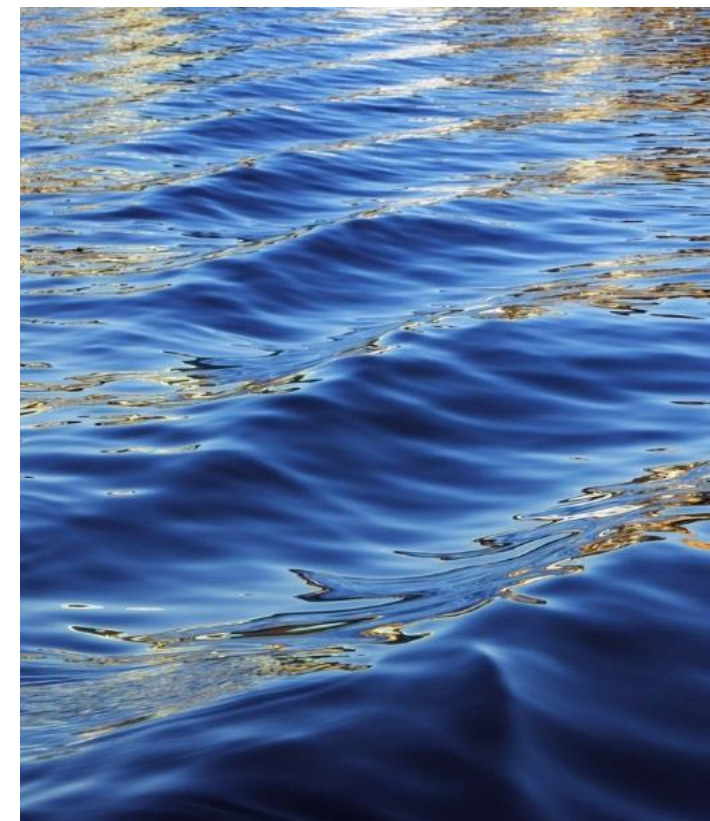


VARMINE H₂O SOLUTIONS



C.R.I. PUMPS

Pumping trust. Worldwide.



**Authorised Supplier of Centrifugal Pumps for
Industry & Commercial Segment.**

-TYPE OF PUMPS WE CAN SUPPLY YOU WITH-



- **CRI PUMPS- A WIDE RANGE OF QUALITY PUMPS**



- **Pumps for all Applications:**

1. Heating and hot water service systems.
2. Cooling and air-conditioning systems.
3. Industrial applications.
4. Pressure boosting and liquid transfer.
5. Groundwater supply.
6. Domestic water supply.
7. Sewage and wastewater.
8. Environmental applications.
9. Dosing.
10. Renewable energy systems.



VARMINE H₂O SOLUTIONS

CRI- CENTRIFUGAL MONOBLOCKPUMPSETS

Virat



ACM Series



Centrifugal Monoblock Pumpsets ACM & VIRAT Series

C.R.I. Centrifugal Monoblock pumpsets are powered by a totally enclosed fan cooled AC induction two pole motor. Motor stator is made of low watt loss silicon steel laminations assembled under pressure and rigidly locked in the frame. The windings are of high-grade enameled copper wire offer excellent resistance and are varnish impregnated. Construction of motor frame and usage of quality materials result in high performance and low temperature rise thereby increasing the life cycle of the motor.

SPECIFICATIONS	ACM	VIRAT
Power range	0.37 kW - 2.2 kW (0.5 HP - 3 HP)	0.37 kW - 1.5 kW (0.5 HP - 2 HP)
Speed	2880 RPM	
Version	1Ph - 220 - 240V; 3Ph - 380 - 415V, 50Hz AC Supply.	
Maximum total head	60 metre	34 metre
Maximum flow rate	18 lps (64.8m ³ /hr)	9 lps (32.4m ³ /hr)
Maximum suction lift	7 metre	
Degree of protection	IP 44 / IP 54	
Class of insulation	B	
Maximum ambient temperature	40°C	
Sealing	Mechanical seal	
Type of duty	S1 (Continuous)	
Method of starting	Permanent Split Capacitor (PSC)	
Direction of rotation	1Ph - Clockwise from driving end; 3Ph - Electrically reversible	
Nominal pumpset size (Suction x Delivery)	25 x 25, 32 x 25, 40 x 32, 40 x 40, 50 x 40, 50 x 50, 65 x 50, 80 x 65, 80 x 80, 100 x 80 & 100 x 100 mm	

SALIENT FEATURES

- High operating efficiency resulting in lower power consumption
- Good suction lift characteristics
- Inbuilt with thermal overload protector in all single phase pumpsets upto 2 HP
- Specially designed for wide voltage operation
- SS 304 impellers are used in specific pump models to increase the life of the pump
- Dynamically balanced rotating parts including rotor and impeller ensures minimum vibration and longer life
- Back pull-out design for easy servicing and repair
- Double shielded ball bearings, so no need of external lubrication
- Available in CI & Aluminium frame

APPLICATIONS

- Domestic
- Irrigation
- Farms
- Gardens
- Industry
- Civil applications

PERFORMANCE CHART



ACM SERIES
SINGLE STAGE CENTRIFUGAL MONOBLOCK PUMPSETS

2880 RPM, At Rated Voltage - Single Phase -220 - 240 Volts;
Three Phase - 380 - 415 Volts, 50Hz, A.C. Supply.

Model	Body	kW	HP	Suction x Delivery in mm	m ³ /hr	DISCHARGE																Star Rating		
						0	1.4	2.2	2.6	3.8	4.2	4.6	5.4	6.1	6.8	7.6	8.3	9.0	9.7	10.4	11.2		11.9	
						0	0.4	0.6	0.7	1.0	1.2	1.3	1.5	1.7	1.9	2.1	2.3	2.5	2.7	2.9	3.1	3.3		
						Head in Metres																		
ACM-0*	CI	0.37	0.5	25x25		19	18	17	16	15	15	14	13	9	8									
ACM-2S	CI	0.37	0.5	25x25		29		26	25	24	23	23	22	18									5	
ACM-44	CI	0.55	0.75	25x25		35		30	29	28	28	28	26	17	18								5	
T/ACM-2	AL	0.75	1	25x25		31		28	27	26	25	25	24	23	18	13								
ACM-24	CI	0.75	1	25x25		34	31	31	30	30	30	30	25											
ACM-28 / T/ACM-28	AL	1.1	1.5	32x25		43				38	37	37	36	35	35	34	33	32	31	30	28	23		

Model	Body	kW	HP	Suction x Delivery in mm	m ³ /hr	DISCHARGE																
						0	8	10	11	12	13	14	15	16	17	18	19	20				
						0	2.2	2.8	3.1	3.3	3.6	3.9	4.2	4.4	4.7	5.0	5.3	5.6				
						Head in Metres																
ACM-60 WV/ES	CI	0.37	0.5	50x50		14	13	13	13	13	12	12	12	11	11	10	10	10	10	10	9	

Model	Body	kW	HP	Suction x Delivery in mm	m ³ /hr	DISCHARGE																	
						0	10.8	14.4	18.0	21.6	25.2	28.8	32.4	36.0	39.6	43.2	46.8	50.4					
						0	3	4	5	6	7	8	9	10	11	12	13	14					
						Head in Metres																	
T/ACM-6 / S-ACM-6 SPL	CI	0.75	1	50x50		13	12	12	11	10	8												
ACM-40(S) WV / LV	CI/AL	0.75	1	80x80		9			9	9	8	8	8	7	7	6	6						
S/ACM-18 SPL	CI	1.1	1.5	50x40		23	18	15	11														
S/ACM-9 SPL	CI	1.1	1.5	50x50		17		14	12	11	8	4											
S/ACM-20 SPL	CI	1.1	1.5	65x50		15	15	14	14	14	13	11	8										
ACM-42	AF	1.1	1.5	80x80		14	13	13	13	12	12	11	10	9	8	8	6	5					
S/ACM-19 / ACM-19* T/ACM-19 / S/ACM-19 SPL	CI	1.5	2	50x50		24	21	20	19	16	14												

PERFORMANCE CHART

ACM SERIES
SINGLE STAGE CENTRIFUGAL MONOBLOCK PUMPSETS

2880 RPM, At Rated Voltage - Single Phase -220 - 240 Volts;
Three Phase - 380 - 415 Volts, 50Hz, A.C. Supply.



Model	Body	kW	HP	Suction x Delivery in mm	m ³ /hr	DISCHARGE																	
						0	10.8	14.4	18.0	21.6	25.2	28.8	32.4	36.0	39.6	43.2	46.8	50.4	54.0	57.6	61.2	64.8	
						0	3	4	5	6	7.1	8	9	10	11	12	13	14	15	16	17	18	
ACM-54		0.75	1	80x80	Head in Metres	13		12	11	11	10	10	9	8	8	7	6						
ACM-51 / ACM-51WV	AF	0.75	1	80x80		9					9	8	8	7	7	6	5						
S/ACM-21 / ACM-21* /SW/ACM-21	CI	1.5	2	65x50		22	21	20	19	18	17	15	12	9									
ACM-22*	CI	1.5	2	80x65		16							12	11	10	9	8	7					
SW/ACM-58 -ES	CI	1.5	2	80x65		16					14	13	12	11	9								
SW/ACM-59 - ES	CI	1.5	2	80x80		15					14	13	12	11	9								
S/ACM-23 / ACM-23* /SW/ACM-23	CI	1.5	2	80x80		17		15	15	14	14	13	12	11	10	9	8	7	6				
ACM-23S WV	CI	1.5	2	80x80		15					12	12	11	10	10	9	8	7	6	5			
ACM-62	CI	1.5	2	80x80		14			13	12	12	11	10	9	8	8	6	5					
ACM-36	CI	1.5	2	100x100		15			14	14	14	14	13	13	12	12	11	10	9	8	7		
S/ACM-47 / T/ACM-47 /S/ACM-47 SPL	CI	2.2	3	50x50		36			31	13	8												
S/ACM-29 / ACM-29*	CI	2.2	3	65x50		25				23	22	21	19	17	15	13	11						
S/ACM-30 / ACM-30*	CI	2.2	3	80x65		19.5			18	18	18	17	17	16	16	15	14	13	12	11			
S/ACM-31 / ACM-31	CI	2.2	3	80x80		19							17	16	15	14	13	12	11	10	9	8	
S/ACM-34	CI	2.2	3	100x100		16				15	15	15	14	14	14	13	13	12	11	10	9	7	
ACM-64	CI	2.2	3	100x100		15			14	14	14	14	13	13	12	12	11	10	9	8	7		

Model	Body	kW	HP	Suction x Delivery in mm	m ³ /hr	DISCHARGE																			
						0	4	6	8	10	11	12	13	18	20	22	24	24	25	27	32	34	38	40	45
						0	1.1	1.7	2.2	2.8	3.1	3.3	3.6	5.0	5.6	6.1	6.7	6.8	6.9	7.5	8.9	9.4	10.6	11.1	12.5
ACM-40 WV ES / WV	AL	0.75	1	80x80	Head in Metres	13									12	11	11	11	11	10	9	9	8	7	6
ACM-40 (S)	AL	0.75	1	80x80		9		8	8	7	6	5													
S/ACM-45	CI	2.2	3	50x40		37						33	33	32	30	28	26	23	20						

PERFORMANCE CHART



ACM SERIES
SINGLE STAGE CENTRIFUGAL MONOBLOCK PUMPSETS

2880 RPM, At Rated Voltage - Single Phase -220 - 240 Volts;
Three Phase - 380 - 415 Volts, 50Hz, A.C. Supply.

Model	Body	kW	HP	Suction x Delivery in mm	m ³ /hr		DISCHARGE																Star Rating			
					0	1.4	2.2	2.6	3.8	4.2	4.6	5.4	6.1	6.8	7.6	8.3	9.0	9.7	10.4	11.2	11.9	12.6		13.3		
ACM A0*	AI	0.37	0.5	25x25	Head in Metres	0	0.4	0.6	0.7	1.0	1.2	1.3	1.5	1.7	1.8	2.1	2.3	2.5	2.7	2.9	3.1	3.3	3.5	3.7		
ACM A1* WV / ES	AL/CI	0.37	0.5	25x25		18		16	16	14	13	13	12													
ACM A1	AL/CI	0.37	0.5	25x25		20		20	20	18	18	17														
ACM A2S	AL	0.37	0.5	25x25		27		24	23	22	21	20	19	13												5
ACM A12	CI	0.37	0.5	40x40											14	14	13	13	11.3	12	12	12	11	10		
ACM A25	CI	0.37	0.5	32x25		22			20	19	19	18	17	17	16	15										
ACM A48 WV / DF / ES	CI	0.37	0.5	40x40		16									12	12	12	11	11	10	9	9	8	7		
ACM A2*	AL/CI	0.75	1	25x25		33		31	30	29	28	28	27	14												5
ACM A24*	CI	0.75	1	25x25		34		32	32	31	30	30	29	15												5
ACM A3-H	AL	0.75	1	32x25		28				24	23	23	22	22	21	20	19	18	15	14						
ACM A10*	CI	0.75	1	40x40	23									20	20	19	19	18	17	17	16	15	14	13	3	

Model	Body	kW	HP	Suction x Delivery in mm	m ³ /hr		DISCHARGE																Star Rating		
					0	3.8	4.2	4.6	5.4	6.1	6.8	7.6	8.3	9.0	9.7	10.4	11.2	11.9	12.6	13.3					
ACM A11*	CI	0.75	1	50x40	Head in Metres	0	1.1	1.2	1.3	1.5	1.7	1.9	2.1	2.3	2.5	2.7	2.9	3.1	3.3	3.5	3.7				
ACM A15*	AI	1.1	1.5	40x32		19									16	16	15	15	15	15	15	14	14		3
ACM A18*	CI	1.1	1.5	50x40		30				28	27	27	27	27	26	25	25	24	22	19	14	12			5
						23	21	21	21	21	20	20	20	19	19	19	18	18	17	16	16				

Model	Body	kW	HP	Suction x Delivery in mm	m ³ /hr		DISCHARGE																		
					0	4.5	6.8	7.3	7.6	8.2	8.4	8.6	9.0	14.0	15.0	22.5	24.0	25.6	26.0	30.0					
ACM A3(H)	AL	0.75	1	25x25	Head in Metres	0	1.3	1.9	2.0	2.1	2.2	2.3	2.4	2.5	3.9	4.2	6.3	6.7	7.1	7.8	8.3				
ACMA6* / SW/ACMA8 WV / ES	CI	0.75	1	50x50		34	31	30	29	29	29	29	28	28											
ACM A20*	CI	1.1	1.5	65x50		14							14	14	13	12	12	10	9	8	8				
ACM A20S	CI	1.1	1.5	65x50		18										17	17	14	13	12	11	9			9
ACM A9*	CI	1.1	1.5	50x50		15											14	11	11	10					
ACM A9S	CI	1.1	1.5	50x50		14			14							14	13	12	10	9	9	6			

PERFORMANCE CHART



ACM SERIES
SINGLE STAGE CENTRIFUGAL MONOBLOCK PUMPSETS

2880 RPM, At Rated Voltage - Single Phase -220 - 240 Volts;
Three Phase - 380 - 415 Volts, 50Hz, A.C. Supply.

Model	Body	kW	HP	Suction x Delivery in mm	DISCHARGE														
					m ³ /hr	0	6	8	10	11	12	13	14	15	16	17	18	19	23.76
ACM50 & ACM50WV	CI	0.75	1	50x50	lps	0	1.7	2.2	2.8	3.1	3.3	3.6	3.9	4.2	4.4	4.7	5	5.3	6.6
ACM 52	AF	0.75	1	50x50	Head in Metres	14	14	14	13	13	13	12	12	12	11	11	10	10	10

Model	Body	kW	HP	Suction x Delivery in mm	DISCHARGE							
					m ³ /hr	0	25	27	32	34	38	40
ACM-53	AF	0.75	1	80x80	lps	0.0	7.0	7.5	8.9	9.4	10.6	11.1
					Head in Metres	12	10	10	9	8	7	7

ADM SERIES
DOUBLE STAGE CENTRIFUGAL MONOBLOCK PUMPSETS

2880 RPM, At Rated Voltage - Single Phase -220 - 240 Volts;
Three Phase - 380 - 415 Volts, 50Hz, A.C. Supply.

Model	Body	kW	HP	Stage	Suction x Delivery in mm	DISCHARGE								
						m ³ /hr	0	3	4.8	6	7.2	8.4	9.6	10.8
ADM 5	CI	1.5	2	2	40x32	lps	0	0.8	1.3	1.7	2	2.3	2.7	3.0
						Head in Metres	60	54	47	41	36	31	23	15

MATERIAL OF CONSTRUCTION - PUMPSET

Part Name	Material
Rear Cover / Bracket	Cast Iron
Motor Frame	Cast Iron / Aluminium
Shaft	SS 410
Impeller	Cast Iron / SS 304 / Noryl
Pump Casing	Cast Iron
Mechanical Seal	Carbon & Ceramic

PERFORMANCE CHART



VIRAT SERIES
SINGLE STAGE CENTRIFUGAL MONOBLOCK PUMPSETS

2880 RPM, At Rated Voltage - Single Phase -220 - 240 Volts;
Three Phase - 380 - 415 Volts, 50Hz, A.C. Supply.

Virat

Model	Body	kW	HP	Suction x Delivery in mm	m ³ /hr	DISCHARGE																Star Rating				
						0	1.37	2.20	2.59	3.78	4.18	4.61	5.40	6.12	6.84	7.56	8.28	9.00	9.72	10.44	11.16		11.88	12.60	13.32	
						0	0.38	0.61	0.72	1.05	1.16	1.28	1.50	1.70	1.90	2.10	2.30	2.50	2.70	2.90	3.10	3.30	3.50	3.70		
VIRAT 525	AL	0.37	0.5	25x25	Head in Metres	18		16	16	14	13	13	12													
VIRAT 525N/ES	AL	0.37	0.5	25x25		19	18	17	16	15	15	14	13	9	8											
VIRAT 525M/ES	AL	0.37	0.5	25x25		21		20	19	18	18	17														
VIRAT 525H	AL	0.37	0.5	25x25		27		24	23	22	21	20	19												5	
VIRAT 1025*	AL	0.75	1	25x25		33		31	30	29	28	28													5	
VIRAT 1025HH*	AL	0.75	1	25x25		34		32	32	31	30	30	29												5	
VIRAT 1025M*	AL	0.75	1	32x25		28				24	23	23	22	22	21	20	19	18	15	14						
VIRAT 1040*	CI	0.75	1	40x40		23									20	20	19	19	18	17	17	16	15	14	13	3
VIRAT 1532	AL	1.1	1.5	40x32		30							28	27	27	27	26	25	25	24	22	19	14	12		

Model	Body	kW	HP	Suction x Delivery in mm	m ³ /hr	DISCHARGE													
						0	6.84	7.56	8.28	9.00	9.72	10.44	11.16	11.88	12.60	13.32			
						0	1.90	2.10	2.30	2.50	2.70	2.90	3.10	3.30	3.50	3.70			
VIRAT 540 / ES / DF	AL	0.37	0.5	40x40	Head in Metres	15	13	13	12	12	12	11	11	10	10	10	7		

Model	Body	kW	HP	Suction x Delivery in mm	m ³ /hr	DISCHARGE																		
						0	4.50	6.80	7.31	7.60	8.21	8.39	8.57	9.00	14.04	14.98	22.50	23.98	25.60	28.01	29.99			
						0	1.25	1.89	2.03	2.11	2.28	2.33	2.38	2.50	3.90	4.16	6.25	6.66	7.11	7.78	8.33			
VIRAT 1025H	AL	0.75	1	32x25	Head in Metres	33	30	29	29	28	28	27	27	26										
VIRAT 1050 / ES	CI	0.75	1	50x50		14							14	13	12	12	10	9	8	8	7			
VIRAT 1525H	AL	1.1	1.5	32x25		34	31	30	29	29	29	29	28	28										
VIRAT 1550M	CI	1.1	1.5	65x50		15									14	13	13	10	10	9	8	8	8	
VIRAT 1550 / ES	CI	1.1	1.5	50x50		14			14						14	13	12	10	9	9	6			

PERFORMANCE CHART



Virat

VIRAT SERIES
SINGLE STAGE CENTRIFUGAL MONOBLOCK PUMPSETS

2880 RPM, At Rated Voltage - Single Phase -220 - 240 Volts;
Three Phase - 380 - 415 Volts, 50Hz, A.C. Supply.

Model	Body	kW	HP	Suction x Delivery in mm	DISCHARGE						
					m ³ /hr	0	10.80	14.40	18.00	21.60	25.20
					lps	0	3.00	4.00	5.00	6.00	7.00
					Head in Metres	23	21	20	18	15	9
VIRAT 2050*	CI	1.5	2	50x50							

MATERIAL OF CONSTRUCTION - PUMPSET

Part Name	Material
Pump Casing	Cast Iron
Impeller	Cast Iron & Noryl
Front Bracket	Cast Iron
Motor Frame	Cast Iron & Aluminium
Back Cover	Cast Iron & Aluminium
Mechanical Seal	Carbon & Ceramic
Cooling Fan	Polypropylene
Cooling Fan Cover	Mild Steel



PRODUCT & APPLICATION OVERVIEW – SMART & SOLAR PUMPS

NEXTGEN PUMPS



NEXT GEN
PRODUCTS

Smart Pump for Smart People

- Pressure Boosting System - (BRISK, Tiny Force)
- Smart Pumps - (i-Smart)
- Sewage & Drainage Pumps

Power range - 0.30kW (0.4HP) to 2.2kW (3HP)

Head range - 2 mtrs to 55 mtrs

Flow range - 0.1 lps (0.4m³/hr) to 12 lps (43 m³/hr)

SOLAR PUMPING SYSTEM



- Highly durable
- Eco-friendly
- Universal - 50/60hz pumps can be used
- Dry run protection with external feedback
- Extremely hardwearing water lubricated bearing
- High operating efficiency & low maintenance
- Operator panel (Optional Remote Monitoring System)
- Corrosion resistant Stainless Steel ensures longer life
- System having provision for operating through Solar & Electricity by power sharing methodology

Monoblock Pumpset

Power range - 0.37kW (0.5HP) to 7.5kW (10HP)

Head range - 45 mtrs

Flow range - 2,56,000 lpd

Borewell Submersible Pumpset

Power range - 0.37kW (0.5HP) to 7.5kW (10HP)

Head range - 100 mtrs - 150 mtrs

Flow range - 1,96,000 lpd

Openwell Submersible Pumpset

Power range - 0.37kW (0.5HP) to 3.7kW (5HP)

Head range - 50 mtrs

Flow range - 2,47,500 lpd



AIR BREAK MOTOR STARTERS



Relay Range	: 2.5 Amps to 32 Amps
Rated Operational Voltage	: 200-440V, 50Hz 3 Phase
Contactor	: 4 pole
Wide Band of Operating Voltage	: 70% to 110% of rated coil voltage
Pick-up Voltage	: Minimum 70% of coil rating
Ambient Temperature	: -25°C to 55°C



CAST IRON VALVES

IS : 10805
CML - 2087452



Foot Valve	
Material of Construction	Cast Iron
Type	Screw type & Flange type
Available nominal size in mm	50 mm to 100 mm



Check Valve	
Material of Construction	Cast Iron
Type	Square type & Round type
Available nominal size	32 mm to 100 mm



Non-Return Valve	
Material of Construction	Cast Iron
Type	Standard & Heavy
Available nominal size in mm	50 mm to 100 mm



Air Valve	
Material of Construction	Cast Iron
Type	Single acting & Double acting
Available nominal size	25 mm

PIPES (PLUMBING & AGRI)

- UV Resistant • Strong & Light Weight
- Fire Resistant • Easy to install
- Corrosion & Chemical Resistant
- Cost Effective



Agri Pipe :	
uPVC Column	: 33mm to 140mm (Bell & Coupler Type)
RPVC	: 20mm to 400mm
HDPE	: 20mm to 630mm
Casing & Screen	: 40mm to 300mm
Grey Casing	: 110mm to 250mm
SDR Casing	: 110mm to 225mm

Plumbing Pipe :

uPVC	: 15mm to 150mm Pipes & Fittings and Solvents from 29.5ml to 946ml in tube & tin
CPVC	: 15mm to 100mm Pipes & Fittings and Solvents from 25ml to 1000ml in tube & tin
SWR	: 75mm to 160mm Pipes & Fittings and Solvents from 25ml to 5000ml in tube, tin & can

WIRES & CABLES



Voltage rating :	Upto 1100 volts - AC Supply
Temperature range :	-10°C to +70°C / -40°C to +90°C
Insulation & Sheathing material :	Flexible waterproof PVC / FR PVC / FRLSH PVC
Conductor :	High conductivity annealed/bunched copper

Available sizes:

Housing Wire :	0.5mm ² to 50.0mm ²
Round Cable (2, 3, & 4 Core) :	0.5mm ² to 16.0mm ²
Flat Cable (3 & 4 Core) :	1.0mm ² to 50.0mm ²

DIGITAL CAPACITOR BOX



- Effective Over Load Protection
- Heavy duty MS Panel
- Smooth and safe start
- Digital LED Display
- Digital Control Box

Power Range :	0.37kW (0.5HP) to 2.2kW (3HP)
Contactor :	2 Pole
Rated Operating Voltage :	240 V, 50 Hz Supply

DIGITAL CONTROLLER



- IoT enabled Remote Operation
- 100% Protection
- Automatic On & Off
- Inbuilt Water-level monitor
- Real-time Timer
- Digital LED Display



PRODUCT & APPLICATION OVERVIEW – BOREWELL PUMPS

RESIDENTIAL PUMPS



- Borewell submersible pumpset - (80mm to 100mm)
- Openwell submersible pumpset - (Plano, CSS, Selfy+)
- Surface monoblock pumpset - (ACM, Virat, Jet, SS monoblock)
- Selfpriming pumpset - (Selfy, Mini pump, Shalo)

Power range - 0.37kW (0.5HP) to 7.5kW (10HP)
Head range - 6 mtrs to 487 mtrs
Flow range - 0.9 lps (3.4m³/hr) to 18 lps (64.8 m³/hr)

AGRICULTURE PUMPS



- Borewell submersible pumpset - (80mm to 200mm)
- Openwell submersible pumpset - (CSM, CV, RYKER)
- Surface monoblock pumpset - (ACM, Virat, Jumbo)

Power range - 1.5kW (2.0HP) to 63.4kW (85HP)
Head range - 5 mtrs to 780 mtrs
Flow range - 0.16 lps (0.5 m³/hr) to 62 lps (223.2 m³/hr)

STAINLESS STEEL PUMPS



- Borewell submersible pumpset - (100mm & 150mm)
- Corrosion resistant SS304 grade stainless steel
- High operating efficiency ensures more power saving
- Smooth surface finish results friction free fluid flow

Power range - 0.37kW (0.5HP) to 18.5kW (25HP)
Head range - 13 mtrs to 780 mtrs
Flow range - 0.1 lps (0.4m³/hr) to 22 lps (80 m³/hr)

STEELIX



Deepwell Centrifugal Jet Pumpsets AJ & BP Series

AJ Series



C.R.I. Deep well Jet Centrifugal Pumpsets volute chamber and impellers are designed to give the best possible hydraulic efficiency and suction lift characteristics. These Pumpsets are powered by a totally enclosed fan cooled (TEFC) and screen protected drip proof (SPDP), AC induction two pole motor, suitable for continuous duty. Motor stator is made of low watt loss ferro silicon steel laminations. The winding are of high grade enameled copper wire and are varnish impregnated. Construction of motor frame and usage of quality materials result in high performance and low temperature raise, thereby increasing the life cycle of the motor.

C.R.I. Deep well Jet Centrifugal pumpsets are available in twin type and packer type versions. Twin type is suitable for borewells with a diameter of 75mm and above. In twin type jet Pumpsets, there are two pipes viz. suction pipe and pressure pipe which connects the jet assembly to the pump. Pressurized water flows through the pressure pipe to the nozzle from the pump casing. Water sucked through the foot valve and the water passing through the nozzle mix together and flow through the suction pipe into the pump. Packer type jet pump is suitable for 50mm and 75mm borewells. The casing of tube well does the function of pressure pipe, i.e. Pressurized water flows through the tube well casing and enters the nozzle. Hence one pipe is eliminated.

SPECIFICATIONS

	AJ & BP
Power range	0.37 kW - 1.5 kW (0.5HP - 2HP)
Speed	2880 RPM
Version	Single phase 220 - 240V; Three phase 380 - 415V, 50HZ AC Supply
Maximum suction lift/ head	92 metre
Maximum flow rate	50 lpm (3 m ³ /hr)
Degree of protection	IP 44/ IP 54
Class of insulation	B
Direction of rotation	1Ph - Clockwise from driving end, (A18, A19, A40, A41) - CCW from driving end Three phase - Electrically Reversible
Type of duty	S1 (Continuous)
Method of starting	Permanent Split Capacitor (PSC)
Nominal pumpset size (S x P x D)	32 x 25 x 25 & 40 x 32 x 25 mm

SALIENT FEATURES

- Good suction lift characteristics
- High operating efficiency resulting in lower power consumption
- Inbuilt thermal over load protector
- The pumpset can be installed both in horizontal and vertical position
- Available in CI, Bronze and Noryl Impellers
- Available in Aluminium & CI Frame motor body

APPLICATIONS

- Domestic
- Farms
- Gardens
- Civil applications



VARMINE H₂O SOLUTIONS

CRI DEEPWELL CENTRIFUGAL JET PUMPS



VARMINE H₂O SOLUTIONS

PERFORMANCE CHART



AJ SERIES
SINGLE STAGE CENTRIFUGAL JET PUMPSETS

2880 RPM, At Rated Voltage - Single Phase - 220 - 240 Volts;
Three Phase - 380 - 415 Volts 50Hz, A.C. Supply.

Model	Body	kW	HP	Min. Bore Dia in mm	Pipe Size in mm			Delivery Head in mtrs	m ³ /hr	DISCHARGE													
					Suction	Pressure	Delivery			0.39	0.49	0.60	0.79	1.00	1.39	1.80	2.20	2.59	3.00				
									lpm	6.65	8.27	10	13.33	16.67	23.33	30	36.67	43.33	50				
A5/AJ5*	AL/CI	0.37	0.5	100	32	25	25	13.7	Head in Metres	31	29	27	23	21	16								
A6/AJ2*	CI	0.75	1	100	32	25	25	15.2				32	30	25	20	14							
A6/AJ9*	CI	0.75	1	100	32	25	25	15.2		41	39	35	31	26	22								
A25/AJ2*	AL	0.75	1	100	32	25	25	15.2		36	34	33	30	28	22	17	13						
A25/AJ9*	AL	0.75	1	100	32	25	25	15.2		42	39	36	31	25	15								
A26/AJ7*	AL	0.75	1	115	40	32	25	15.2		25	25	24	23	22	20	18	16	14	13				
A9/AJ9	AL	1.1	1.5	100	32	25	25	15.2		52	48	45	39	22									

AJ SERIES
DOUBLE STAGE CENTRIFUGAL JET PUMPSETS
- HORIZONTAL MODEL

2880 RPM, At Rated Voltage - Single Phase - 220 - 240 Volts;
Three Phase - 380 - 415 Volts 50Hz, A.C. Supply.

Model	Body	kW	HP	No. of Stages	Min. Bore Dia in mm	Pipe Size in mm			Delivery Head in mtrs	m ³ /hr	DISCHARGE															
						Suction	Pressure	Delivery			0.30	0.35	0.40	0.44	0.45	0.46	0.49	0.55	0.58	0.60	0.62	0.64	0.65	0.66	0.68	0.70
									lpm	5	5.83	6.67	7.33	7.5	7.67	8.33	9.17	9.67	10	10.33	10.67	10.83	11	11.33	11.67	
A40/AJ1	CI	1.1	1.5	2	100	32	25	25	16.8	Head in Metres	85	82	76	73	71	71	69	68	66	64	63	62	60	58	57	56
A18/AJ1	CI	1.5	2	2	100	32	25	25	16.8		92	89	85	82	81	79	78	74	72	71	70	69	66	65	62	52

Model	Body	kW	HP	No. of Stages	Min. Bore Dia in mm	Pipe Size in mm			Delivery Head in mtrs	m ³ /hr	DISCHARGE															
						Suction	Pressure	Delivery			0.14	0.16	0.17	0.18	0.20	0.23	0.25	0.27	0.28	0.29	0.31	0.32	0.33	0.35	0.38	
									lpm	8.3	9.7	10.3	11.0	12.2	13.7	15.0	16.2	16.7	17.5	18.3	19.2	20.0	20.8	22.5		
A18/AJ9	CI	1.5	2	2	100	32	25	25	55	Head in Metres	73	68	64	61	58	55	52	49	46	43	40	37	35	33	33	28

Model	Body	kW	HP	No. of Stages	Min. Bore Dia in mm	Pipe Size in mm			Delivery Head in mtrs	m ³ /hr	DISCHARGE														
						Suction	Pressure	Delivery			0.14	0.22	0.30	0.35	0.42	0.53	0.61	0.73	0.82	0.92	1.03				
									lpm	2.38	3.67	5.07	5.82	6.95	8.77	10.12	12.2	13.67	15.25	17.17					
A40S/AJ9	CI	1.1	1.5	2	100	32	25	25	15.2	Head in Metres	54	51.5	49	48	46	42	39	35	33	30	23				

PERFORMANCE CHART



AJ SERIES

DOUBLE STAGE CENTRIFUGAL JET PUMPSETS
- HORIZONTAL MODEL

2880 RPM, At Rated Voltage - Single Phase -220 - 240 Volts;

Three Phase - 380 - 415 Volts, 50Hz, A.C. Supply.

Model	Body	kW	HP	No. of Stages	Min. Bore Dia in mm	Pipe Size in mm			Delivery Head in mtrs	m ³ /hr	DISCHARGE										
						Suction	Pressure	Delivery			lpm	0.49	0.54	0.60	0.66	0.72	0.79	0.84	0.90	1.00	1.09
A40/AJ9*	CI	1.1	1.5	2	100	32	25	25	16.8	Head in Metres	61	58	56	54	51	49	47	43	39	25	16

Model	Body	kW	HP	No. of Stages	Min. Bore Dia in mm	Pipe Size in mm			Delivery Head in mtrs	m ³ /hr	DISCHARGE											
						Suction	Pressure	Delivery			lpm	0.33	0.38	0.40	0.46	0.54	0.60	0.65	0.68	0.70	0.72	0.73
A10N/AJ1	CI/AL	0.75	1	2	100	32	25	25	15.2	Head in Metres	60	57	55	52	47	45	41	40	37	36	34	28

Model	Body	kW	HP	No. of Stages	Min. Bore Dia in mm	Pipe Size in mm			Delivery Head in mtrs	m ³ /hr	DISCHARGE											
						Suction	Pressure	Delivery			lpm	0.35	0.45	0.55	0.70	0.79	0.90	1.02	1.08	1.09		
A10N/AJ9	CI	0.75	1	2	100	32	25	25	15.2	Head in Metres	53	47	44	38	35	33	30	27	27	21	18	18.33

Model	Body	kW	HP	No. of Stages	Min. Bore Dia in mm	Pipe Size in mm			Delivery Head in mtrs	m ³ /hr	DISCHARGE													
						Suction	Pressure	Delivery			lpm	0.72	0.79	0.86	0.94	1.01	1.08	1.15	1.22	1.3	1.37	1.44	1.51	1.62
A10N/AJ1(LH)	CI	0.75	1	1	100	32	25	25	50	Head in Metres	37	35	34	33	32	30	29	28	27	27	26	24	19	11

PERFORMANCE CHART



SPDP SERIES
CENTRIFUGAL JET PUMPSETS
- HORIZONTAL MODEL

2880 RPM, At Rated Voltage - Single Phase - 220 - 240 Volts;
Three Phase - 380 - 415 Volts 50Hz, A.C. Supply.

Model	Body	kW	HP	Min. Bore Dia in mm	Pipe Size in mm			Delivery Head in mtrs	m ³ /hr	DISCHARGE								
					Suction	Pressure	Delivery			0.25	0.35	0.49	0.54	0.63	0.70	0.85	0.92	0.94
A10/AJ10	AL	0.75	1	100	32	25	25	15.2	4.17	5.83	8.17	9.00	10.12	11.67	14.17	15.33	15.67	16.33
								Head in Metres	58	55	49	46	43	40	37	33	30	28

Model	Body	kW	HP	Min. Bore Dia in mm	Pipe Size in mm			Delivery Head in mtrs	m ³ /hr	DISCHARGE								
					Suction	Pressure	Delivery			0.39	0.49	0.60	0.79	1.00	1.39	1.80	2.20	2.59
A12/AJ2S	SS	0.75	1	100	32	25	25	15.2	6.65	8.27	10	13.33	16.67	23.33	30	36.67	43.33	50
								Head in Metres	33	30	28	23	18	6				

BP SERIES
SINGLE STAGE CENTRIFUGAL JET PUMPSETS

2880 RPM, At Rated Voltage - Single Phase - 220 - 240 Volts;
Three Phase - 380 - 415 Volts 50Hz, A.C. Supply.

PACKER TYPE

Model	Body	kW	HP	Min. Bore Dia in mm	Pipe Size in mm			Delivery Head in mtrs	m ³ /hr	DISCHARGE								
					Suction	Pressure	Delivery			0	0.39	0.49	0.60	0.79	1.00	1.39	1.80	
BP8/2	CI/AL	0.75	1	50	32	25	25	15.2	0	6.65	8.27	10	13.33	16.67	23.33	30		
BP9/2	AL	0.75	1	50	32	25	25	15.2	32	27	25	24	21	20	16	13		
BP8/3	AL	0.75	1	80	40	32	25	15.2	45	33	31	28	22	18				
								Head in Metres	54	30	29	28	26	24	21	17		

MATERIAL OF CONSTRUCTION - PUMPSET

Part Name	Material
Pump Casing	Cast Iron
Bracket / Rear Cover	Cast Iron
Impeller	Cast Iron / Bronze / Noryl
Motor Frame	Cast Iron / Aluminium / Mild Steel / SS
Shaft	SS 410
Mechanical Seal	Carbon & Ceramic
Jet Assembly	Gun metal



VARMINE H₂O SOLUTIONS

REGENERATIVE SELF PRIMING MONOSET PUMP SETS

Regenerative Selfpriming Monoset Pumpsets SELFY Series



C.R.I. Selfy Regenerative Selfpriming Monoset Pumps are powered by a totally enclosed fan cooled (TEFC) and Screen Protected Drip Proof (SPDP) AC induction two pole and four pole motors suitable for continuous duty. Motor stator is made of low watt loss silicon steel lamination. Construction of motor frame and usage of quality materials result in high performance and low temperature raise, thereby increasing the life cycle of the motor.



SPECIFICATIONS

SELFY

Power range	0.37 kW & 0.75 kW (0.5HP & 1HP)
Speed	1440 & 2880 RPM
Version	Single phase 220 – 240V, 50Hz AC Supply
Maximum total head	55 metre
Maximum flow rate	64 lpm (3.82 m ³ /hr)
Degree of protection	IP 44
Class of insulation	'B'
Direction of rotation	Clockwise from driving end
Type of duty	S1 (Continuous)
Method of starting	CSCR / Permanent Split Capacitor (PSC)
Maximum suction lift	Upto 8 metre (slow speed) / Upto 6 metre (high speed)
Nominal pumpset size (S x D)	25 x 25 mm

SALIENT FEATURES

- Good suction lift characteristics
- Accurate function of centrifugal governor & switch ensures the longer life of the motor
- Specially designed mesh is provided in pump to avoid foreign particles
- Special graded casting used in pump portion to prevent the wear & tear
- High tensile brass impeller is used to increase the life of pump

APPLICATIONS

- Domestic
- Washing
- Gardens
- Civil applications

PERFORMANCE CHART



SELFY SERIES

REGENERATIVE SELFPRIMING MONOBLOCK PUMPSETS

1440 / 2880 RPM At Rated Voltage - Single Phase - 220 - 240 Volts, 50Hz, A.C. Supply

Model	Body	kW	HP	Suction x Delivery in mm	Speed in RPM	Suction Capacity in mtrs	m ³ /hr lpm	DISCHARGE											
								0	0.61	0.80	1.01	1.40	1.80	2.20	2.60	3.00	3.38	3.82	
SELFY 50	AL	0.37	0.5	25x25	2880	6	Head in Metres	0	10	13	17	23	30	37	43	50	56	64	
SELFY 51	CI	0.37	0.5	25x25	2880	6		50	41	38	34	27	19	13	10				
SELFY 52	CI	0.37	0.5	25x25	1440	8		29	26	25	24	23	18	15	10	8			
SELFY 53/54	CI	0.37	0.5	25x25	1440	8		29	26	25	24	23	18	15	10	8			
SELFY 100	MS	0.75	1	25x25	1440	8		45			39	35	32	28	24	17	12		
SELFY 102/106	CI	0.75	1	25x25	1440	8		50			42	38	36	33	28	20	14	13	
SELFY 103/104	AI/CI	0.75	1	25x25	2800	8		55	48	46	43	34	27						
SELFY 105	MS	0.75	1	25x25	1440	8		415	38	35	32	29	24	20	16	12	8	4	

MATERIAL OF CONSTRUCTION - PUMPSET

Part Name	Material
Pump casing	Cast Iron
Motor body	Cast Iron / Mild Steel / Aluminium
Shaft	SS - 410
Impeller	High Tensile Brass
Bracket	Cast Iron
Mechanical Seal	Carbon & Ceramic



VARMINE H₂O SOLUTIONS

Self Priming & Non-Self
Priming
Monoblock Pump Sets.



Selfpriming / Non-selfpriming Monoblock Pumpsets

Royale / Xcite / Shine / Dora / Dhoom / Champee & Miki Series



C.R.I. Selfpriming monoblock pumpsets are power-driven by a totally enclosed fan cooled AC induction two pole motor, suitable for continuous duty. Motor stator is made of low watt loss silicon laminations assembled under pressure and rigidly locked in the frame. The windings are of high - grade enameled copper wire and are varnish impregnated. Construction of motor frames and usage of quality materials result in high performance, noise free operation and low temperature rise thereby increasing the life cycle of the motor. Pumps volute chamber and impellers are designed to give the best possible hydraulic efficiency and suction lift characteristics. Non-selfpriming pumps with end suction and radial delivery.

SPECIFICATIONS

ROYALE / XCITE / SHINE / DORA / DHOOM / CHAMPEE & MIKI

Power range	0.18kW - 1.1kW (0.25HP - 1.5HP)
Speed	2880 RPM
Versions	1Ph - 220-240 V; 3Ph - 380-415 V, 50 Hz AC supply.
Maximum total head	100 metre
Maximum flow rate	3800 lph (3.8 m ³ /hr)
Degree of protection	IP 44
Direction of rotation	Clockwise from driving end
Class of insulation	B
Type of duty	S1 (Continuous)
Maximum suction lift	Upto 8 metre
Maximum liquid temperature	330c
Maximum ambient temperature	400c
Nominal size (suction x delivery)	15 x 15, 20 x 20 & 25 x 25 mm

SALIENT FEATURES

- Upto 100metre (328 feet) working capacity
- Built-in with imported Thermal Overload Protector
- Specially designed for wide voltage operation
- Powder coated multi-color stator body
- Sturdy and compact
- Double sealed ball bearing, so no need of external lubrication
- Pumpset available with extension shaft for multi purpose application

APPLICATIONS

- Domestic
- Small garden
- Pressure boosting
- Civil applications
- RO Applications
- House Watering Systems

PERFORMANCE CHART



DORA

Model	kW	HP	Type	Suction x Delivery in mm	Suction Capacity in mtrs	Total Head in metre / feet									
						6	8	10	12	15	18	21	25	30	
						20	26	33	39	49	59	69	82	98	
Discharge in LPH															
DORA 50	0.37	0.5	SELF PRIMING	25x25	8	2016	1872	1750	1512	1332	1000	800	360		
DORA 100	0.75	1	SELF PRIMING	25x25	8	3000	2800	2600	2450	2320	2100	1880	1720	1320	

Shine

Model	kW	HP	Type	Suction x Delivery in mm	Suction Capacity in mtrs	Total Head in metre / feet									
						6	8	10	12	15	18	21	25	30	
						20	26	33	39	49	59	69	82	98	
Discharge in LPH															
SHINE 50/50 PLUS	0.37	0.5	SELF PRIMING	25x25	8	2088	2000	1800	1600	1400	1220	1000	760		
SHINE 100/100 PLUS	0.75	1	SELF PRIMING	25x25	8	3050	2850	2650	2500	2350	2120	1900	1800	1400	

Miki

Model	kW	HP	Type	Suction x Delivery in mm	Suction Capacity in mtrs	Total Head in metre / feet												
						6	8	10	12	15	18	21	25	26	28	30	35	
						20	26	33	39	49	59	69	82	85	92	98	115	
Discharge in LPH																		
MIKI 50	0.37	0.5	SELF PRIMING	25x25	8	2100	1928	1802	1557	1372	1030	824	600	450	250			
MIKI 51	0.37	0.5	SELF PRIMING	25x25	8	2150	2060	1854	1648	1442	1256	1030	782	550	300			
MIKI 100	0.75	1	SELF PRIMING	25x25	8	3340	3186	3060	2916	2700	2412	2160	1872	1755	1638	1404	830	

XCITE

Model	kW	HP	Type	Suction x Delivery in mm	Suction Capacity in mtrs	Total Head in metre / feet											
						6	8	10	12	15	18	21	25	30	35	40	45
						20	26	33	39	49	59	69	82	98	115	131	148
Discharge in LPH																	
XCITE 50*	0.37	0.5	SELF PRIMING	25x25	8	2000	1900	1800	1700	1600	1100	920	680				
XCITE 51*/C PLUS 51	0.37	0.5	SELF PRIMING	25x25	8	2300	2200	2050	1850	1700	1512	1300	900				
XCITE 100*/C PLUS 100/ES	0.75	1	SELF PRIMING	25x25	8	3100	2900	2592	2520	2450	2250	2100	1900	1620	1350	1000	825

PERFORMANCE CHART



Model	kW	HP	Type	Suction x Delivery in mm	Suction Capacity in mtrs	Total Head in metre / feet														
						6	8	10	12	15	18	21	25	30	35	40	45	50	55	58
						20	26	33	39	49	59	69	82	98	115	131	148	164	180	190
Discharge in LPH																				
ROYALE 51*	0.37	0.5	SELF PRIMING	25x25	8	2700	2550	2300	2150	2000	1700	1500	1260	864						
ROYALE 52*/ ES	0.37	0.5	SELF PRIMING	25x25	8	3150	2950	2808	2600	2448	2200	2088	1800	1500						
ROYALE 100*	0.75	1	SELF PRIMING	25x25	8	3100	3000	2900	2700	2600	2480	2350	2196	1980	1728	1368				
ROYALE 101	0.75	1	SELF PRIMING	25x25	8	3400	3300	3250	3200	3150	3000	2950	2736	2376	2200	1550	1200			
ROYALE 150	1.1	1.5	SELF PRIMING	25x25	8	3888	3800	3750	3700	3600	3500	3400	3300	3060	2750	2450	2000	1350		
ROYALE D PLUS 50	0.37	0.5	SELF PRIMING	25x25	8	2800	2736	2550	2350	2160	1944	1728	1365	936	504					
ROYALE D PLUS 51	0.37	0.5	SELF PRIMING	25x25	8	3100	3060	2970	2880	2592	2268	2088	1656	1080	650					
ROYALE D PLUS 100	0.75	1	SELF PRIMING	25x25	8	3350	3269	3276	3258	3204	3096	2880	2592	2268	1980	1692	1404	1080	756	576
ROYALE D PLUS 101	0.75	1	SELF PRIMING	25x25	8	3400	3350	3357	3340	3285	3174	2952	2656	2324	2029	1734	1434	1107	775	590
ROYALE E PLUS 100	0.75	1	SELF PRIMING	25x25	8	3350	3269	3276	3258	3204	3096	2880	2592	2268	1980	1692	1404	1080	756	576
ROYALE E PLUS 101	0.75	1	SELF PRIMING	25x25	8	3400	3350	3357	3340	3285	3174	2952	2656	2324	2029	1734	1434	1107	775	590



WONDER SUCTION

Model	kW	HP	Type	Suction x Delivery in mm	Suction Capacity in mtrs	Total Head in metre / feet														
						6	8	10	12	15	18	21	25	30	35	40	45	50	55	
						20	26	33	39	49	59	69	82	98	115	131	148	164	180	
Discharge in LPH																				
DHOOM 51	0.37	0.5	WONDER SUCTION	25x25	8	1550	1520	1500	1480	1350	1200	1090	850							
DHOOM 52	0.37	0.5	WONDER SUCTION	15x15	8	1370	1270	1150	1100	1020	900	800	520							
DHOOM 53	0.37	0.5	WONDER SUCTION	25x25	8	1580	1480	1400	1350	1300	1000	850	550							
DHOOM 75	0.55	0.75	WONDER SUCTION	25x25	8	1900	1850	1775	1700	1620	1400	1200	950	500						
DHOOM 100	0.75	1	WONDER SUCTION	25x25	8	2450	2350	2200	2100	1900	1750	1600	1450	1200	750					
DHOOM 150	1.1	1.5	WONDER SUCTION	25x25	8	3200	3150	3100	3000	2950	2900	2800	2700	2500	2350	2000	1650	1200	750	
DHOOM 52 D PLUS	0.37	0.5	WONDER SUCTION	15x15	8	1880	1833	1761	1660	1458	1295	1108	800	594						
DHOOM 75 D PLUS	0.5	0.75	WONDER SUCTION	25x25	8	2048	1995	1925	1865	1775	1656	1500	1286	924	453					
DHOOM 100 D PLUS	0.75	1	WONDER SUCTION	25x25	8	2085	2018	1928	1849	1715	1640	1475	1250	978	706					

PERFORMANCE CHART



SPECIALLY DESIGNED FOR R.O. APPLICATION

Model	kW	HP	Type	Suction x Delivery in mm	Suction Capacity in mtrs	Total Head in metre / feet																		
						6	8	10	12	15	18	21	25	30	35	40	45	50	55	60	70	80	90	100
						20	26	33	39	49	59	69	82	98	115	131	148	164	180	197	230	262	295	328
Discharge in LPH																								
CHAMPEE100	0.75	1	NON SELFPRIMING	25x25	8	1700	1650	1600	1550	1500	1400	1380	1300	1200	1100	1000	900	800	700	650	480	320	180	
CHAMPEE150	1.1	1.5	NON SELFPRIMING	25x25	8	3300	3200	3024	2950	2900	2800	2700	2600	2400	2250	2200	2100	2000	1850	1750	1200	900	400	150

MATERIAL OF CONSTRUCTION - PUMPSET

Part Name	Material
Pump Casing	Cast Iron
Bracket & Rear Cover	Cast Iron / Aluminium
Volute Casing	Forged SS / Brass
Rotor	Aluminium Die Cast
Motor Body	Aluminium Extruded / Die Cast / Cast Iron
Motor Shaft	SS 410
Cooling Fan	Poly Propylene - Co Polimer
Cooling Fan Cover	Poly Propylene - Co Polimer / MS
Impeller	High Tensile Brass
Mechanical Seal	Carbon & Ceramic



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