



C.R.I. PUMPS

Pumping trust... Worldwide.



- More Durability and Hygiene.
- High Operating Efficiency.
- Motor designed with a High Cooling Effect.
- Designed for Wide Voltage Operation.
- Sturdy and Compact.



Vision, Mission and Values

To be the industry leader providing best-in-class fluid management solutions to individual and institutional customers and societies in our chosen markets.

We will achieve this through our dedicated efforts to enhance the welfare of all our stakeholders and by living by our values of **Commitment, Reliability and Innovation.**



ABOUT C.R.I.

C.R.I. ranks high among the world's fastest-growing fluid management solutions provider with a wide global presence. C.R.I. offers Pumps, Motors, IoT Driven Pumps, IoT Drives & Controllers, Pipes, Wires & Cables, Solar Pumps and Controllers to meet the pumping needs of its wide customer base.



60+ Years
of Engineering
Expertise



120+ Countries
have our strong
global presence



21+
Manufacturing Units
around the World



30000+ Outlets
to serve our
Customers



9000+
Products for various
applications



1500+
Service Centres to
support our Customers



16 Times
EEPC Award Winner
for Export Excellence



8 Times
NEC Award Winner
for Energy Savings



**Fludyn Advanced Technology
Centre** Recognized by Ministry of
Science & Technology, Govt. of India.

C.R.I. PIPES - C.R.I.'s state-of-the-art manufacturing facility at Ahmedabad & Hosur produces all kinds of best quality PVC, UPVC, CPVC Pipes & Fittings. The plants are empowered with fully automated machines that control the manufacturing process.

C.R.I. WIRES & CABLES - C.R.I.'s Wires & Cables are manufactured at its state-of-the-art manufacturing facility. The systems at the manufacturing facility are ISO-9001 certified and the products manufactured to meet the relevant standards.

C.R.I. SOLAR PUMPING SYSTEM - C.R.I. manufactures sustainable Solar Pumping Systems designed to work with best in class efficiency. With this C.R.I. emphasizes its focus towards greener technology.



Centrifugal Monoblock Pumpset - ACM / ADM / 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.

SALIENT FEATURES

- High operating efficiency resulting in lower power consumption
- 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.

APPLICATION

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

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	Single phase 220 - 240V; Three phase 380 - 415V, 50Hz, A.C. Supply	
Maximum total head	60 Metre	34 Metre
Maximum flow rate	18 LPS (64.8m ³ /hr)	8.33 LPS (29.99m ³ /hr)
Maximum suction lift	7 Metre	
Class of insulation	B	
Maximum ambient temperature	40°C	
Sealing	Mechanical seal	
Method of starting	Permanent Split Capacitor (PSC)	
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 100 mm	



PERFORMANCE CHART

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

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

SINGLE STAGE CENTRIFUGAL MONOBLOCK PUMPSET - ACM Series

Model	Body	kW	HP	Suction x Delivery in mm	m³/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	
ACM-0*	CI	0.37	0.5	25x25	Head in Metres	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	m³/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
ACM-60 WV/ES	CI	0.37	0.5	50x50	Head in Metres	14	13	13	13	13	12	12	12	11	11	10	10	9

Model	Body	kW	HP	Suction x Delivery in mm	m³/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
T/ACM-6* / S-ACM-6	CI	0.75	1	50x50	Head in Metres	13	12	12	11	10	8							
ACM-38	CI	0.75	1	65x50														
ACM-40S* LV	CI/AL	1.1	1.5	80x80		9.9				9.7	9.7	9.4	8.9	8.3	7.9	7.4		
S/ACM-18	CI	1.1	1.5	50x40		23	18	15	11									
S/ACM-9	CI	1.1	1.5	50x50		17		14	12	11	8	4						
S/ACM-20	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
ACM-42 WV	AF	1.1	1.5	80x80		14	13.4	13	12.6	12.2	11.6	11	10	9.1	8.2	7.5	6.4	5.4
S/ACM-19 / ACM-19* T/ACM-19*	CI	1.5	2	50x50		24	21	20	19	16	14							

* Marked pumpset are having ISI licence. WV - Wide voltage operation | LV - Low voltage operation | ES - Extension Shafts available | S - Slick | H - High head

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PERFORMANCE CHART

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

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

SINGLE STAGE CENTRIFUGAL MONOBLOCK PUMPSET - ACM Series

Model	Body	kW	HP	Suction x Delivery in mm	m³/hr	0	7.2	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	2	3	4	5	6	7.1	8	9	10	11	12	13	14	15	16	17	18
ACM-54	AF	0.75	1	80x80	Head in Metres	13			12	11	11	10	10	9	8	8	7	6					
ACM-21LV / S/ACM-21 / ACM-21*/SW/ACM-21LV	CI	1.5	2	65x50		22		21	20	19	18	17	15	12	9								
ACM-22* / S / 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	CI	1.5	2	80x80		15						14	13	12	11	9							
T/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*/ACM-23SWV	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	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 / S / ACM-64	CI	2.2	3	100x100		15				14	14	14	14	13	13	12	12	11	10	9	8	7	
ACM-27 / S / ACM-27	CI	1.5	2	50x50		33.5	33	32.5	32	30	16												
ACM-42N	CI	1.1	1.5	80x80		8.8							8.7	8.6	8.4	8.0	7.3	6.8					
S/ACM-22S	CI	1.5	2	80x65		15				13.5	13	12	11	10.5	9.5	8.6	8	7					

Model	Body	kW	HP	Suction x Delivery in mm	m³/hr	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 40S	CI	0.75	1	80x80	Head in Metres	9.9	9.8	9.8	9.8	9.7	9.7	9.7	9.6	9.5	9.4	9.3	9.2	9.1	9.1	9.0	8.5	8.3	7.7	7.4	6.6
ACM-40 WV ES / WV	AL	0.75	1	80x80		13									12	11	11	11	11	10	9	9	8	7	6
S/ACM-45	CI	2.2	3	50x40		37						33	33	32	30	28	26	23	20						

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PERFORMANCE CHART

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

SINGLE STAGE CENTRIFUGAL MONOBLOCK PUMPSET - ACM Series

Model	Body	kW	HP	Suction x Delivery in mm	m ³ /hr Ips	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	18		16	16	14	13	13	12												
ACM A1*	AL/CI	0.37	0.5	25x25		20		19.8	19.6	18.4	17.9	17.3													
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	113	12	12	12	11	10	
ACM A48 WV / DF / ES	CI	0.37	0.5	40x40		16									12	12	12	11	11	10	9	9	8	7	
ACM A48N AF / DF / ES	CI	0.37	0.5	40x40		12.5					12	11.8	11.6	11.3	11.2	10.9	10.5	10	9.6	9.3	8.8				
ACM 60N / ES	CI	0.37	0.5	50x50		12.2				12	11.9	11.8	11.7	11.6	11.4	11.2	11	10.9	10.8	10.5	10.3	10	9.7	9.3	
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

Model	Body	kW	HP	Suction x Delivery in mm	m³/hr Ips	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	Star Rating
						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 A11*	CI	0.75	1	50x40	Head in Metres	19								16	16	15	15	15	15	14	14	3
ACM A15*	AI	1.1	1.5	40x32		30				28	27	27	27	26	25	25	24	22	19	14	12	5
ACM A18*	CI	1.1	1.5	50x40		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	m³/hr lps	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	28.0	30.0	
						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* / ACMA6 WV / ES	CI	0.75	1	50x50	Head in Metres	14						14	14	13	12	12	10	9	8	8		
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	
ACM A20*	CI	1.1	1.5	65x50		18										17	17	14	13	12	11	9
ACM A20S	CI	1.1	1.5	65x50		15									14	13	13	10	10	9	8	8

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PERFORMANCE CHART

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

SINGLE STAGE CENTRIFUGAL MONOBLOCK PUMPSET - ACM Series

Model	Body	kW	HP	Suction x Delivery in mm	m³/hr	0	6	8	10	11	12	13	14	15	16	17	18	19	23.76
						Ips	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
ACM50 & ACM50 ES	CI	0.75	1	50x50	Head in Metres	14	14	14	13	13	13	12	12	12	11	11	10	10	

DOUBLE STAGE CENTRIFUGAL MONOBLOCK PUMPSET - ADM Series

Model	Body	kW	HP	Stage	Suction x Delivery in mm	m³/hr	0	3	4.8	6	7.2	8.4	9.6	10.8
							Ips	0.8	1.3	1.7	2	2.3	2.7	3.0
ADM 5	CI	1.5	2	2	40x32	Head in Metres	60	54	47	41	36	31	23	15

SINGLE STAGE CENTRIFUGAL MONOBLOCK PUMPSET - VIRAT Series

Model	Body	kW	HP	Suction x Delivery in mm	m³/hr	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	Star Rating
						Ips	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 524	AL	0.37	0.5	25x25	Head in Metres	15	14	13	12.5	12	11	10	9	7	5										
VIRAT 525	AL	0.37	0.5	25x25		18		16	16	14	13	13	12												
VIRAT 525N/ES	AL/CI	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

Model	Body	kW	HP	Suction x Delivery in mm	m³/hr	0	6.84	7.56	8.28	9.00	9.72	10.44	11.16	11.88	12.60	13.32
						Ips	1.90	2.10	2.30	2.50	2.70	2.90	3.10	3.30	3.50	3.70
VIRAT 540 / ES	AL/CI	0.37	0.5	40x40	Head in Metres	15	13	13	12	12	12	11	11	10	10	7

* Marked pumpset are having ISI licence. WV - Wide voltage operation | LV - Low voltage operation | ES - Extension Shafts available | S - Sleaf | H - High head



PERFORMANCE CHART

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

SINGLE STAGE CENTRIFUGAL MONOBLOCK PUMPSET - VIRAT Series

Model	Body	kW	HP	Suction x Delivery in mm	m³/hr	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
VIRAT 1550	CI	1.1	1.5	50x50		14			14					14	13	12	10	9	9	6	

Model	Body	kW	HP	Suction x Delivery in mm	m³/hr	0	10.80	14.40	18.00	21.60	25.20
						0	3.00	4.00	5.00	6.00	7.00
VIRAT 2050M*	CI	1.5	2	50x50	Head in Metres	23	21	20	18	15	9

ACM - 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

VIRAT - 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

* Marked pumpset are having ISI licence. ES - Extension Shafts available | DF - Dual Flange | HH - High head



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In view of continuous developments, the information / performance / descriptions / specifications / illustrations mentioned in this catalogue are subject to change without notice.