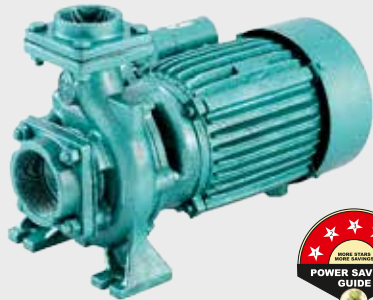




Virat



ACM Series



ADM 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 Series	Virat Series
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 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																			
					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			
					lps	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	3.5	3.7		
ACM 0*	CI/AL	0.37	0.5	25x25	Head in Metres	19.0	17.5	16.7	16.4	15.0	14.5	14.0	13.0	9.0	8.0											
ACM 2S	AL	0.37	0.5	25x25		28.6		25.8	25.4	24.0	23.4	23.0	22.0	18.2												
ACM 43/ACM 43 ES	CI/AL	0.37	0.5	40X40		14.5									12.9	12.7	12.4	12.1	11.7	11.1	10.5	10.1	9.9	7.0		
ACM 44 ES	AL	0.55	0.75	25X25		34.5		29.6	29.0	28.2	28.0	27.8	26.4	17.0	18.0											
ACM 2*	AL	0.75	1	25X25		31.0		27.5	27.0	26.0	25.2	25.0	24.0	23.0	17.5	13.0										
ACM 24	AL	0.75	1	25X25		34.0	31.0	30.8	30.4	30.2	30.0	29.6	24.5													
ACM 10-LV	AL	0.75	1	40X40		20.0												17.8	17.0	15.0	15.2	14.0	13.5	12.2	9.6	
ACM 28	AL	1.1	1.5	32X25		43.0				37.5	37.2	36.8	36.1	35.4	34.5	33.5	32.8	32.0	31.0	29.8	28.3	23.0				
S/ACM 16(E)	CI	1.5	2	65 x 50		31.4										30.2	30	29.7	29.4	29.1	28.8	28.6	28.3	28	27.4	

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		
					lps	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	13.2	13	12.8	12.5	12	12	11.5	11	10.5	10	9.5	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				
					lps	0	3	4	5	6	7	8	9	10	11	12	13	14			
S/ACM 6/ACM 6* LV/ES	AL	0.75	1	50x50	Head in Metres	13.0	12.0	11.5	10.5	10.0	8.0										
ACM 40(S) WV/LV	AL	0.75	1	80x80		9.0			8.7	8.5	8.3	8.0	7.7	7.0	6.7	6.2	5.5				
S/ACM18 / ACM18* /LV	CI	1.1	1.5	50x40		23.0	17.9	14.8	10.8												
S/ACM9 / ACM 9*	CI	1.1	1.5	50x50		17.0		13.9	12.4	10.8	8.4	4.0									
S/ACM20 / ACM 20*	CI	1.1	1.5	65x50		15.0	14.5	14.4	14.2	14.1	12.9	10.9	8.3								
ACM 42 WV	CI	1.1	1.5	80x80		14.0	13.4	13.0	12.6	12.2	11.6	11.0	10.0	9.1	8.2	7.5	6.4	5.4			
S/ACM19 / ACM 19* SW/ACM19	CI	1.5	2	50x50		23.5	21.0	20.0	18.5	16.3	13.7										

* Marked pumpsets are having ISI licence # Marked pumpsets are having BEE star label WV - Wide voltage operation LV - Low voltage operation ES - Extension Shafts available S - Sleek H - High head



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 lps	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		
S/ACM21/ACM 21* / SW/ACM21 / ACM 21 WV	CI	1.5	2	65X50	Head in Metres	22.0	20.5	20.0	19.0	17.5	16.5	15.0	11.5	8.5										
S/ACM 22/ACM 22* / SW/ACM22 / ACM 22 WV	CI	1.5	2	80X65		16.0								12.0	11.0	9.7	8.6	7.6	7.0					
ACM 21 (S)	CI	1.5	2	65X50		21.0	20.0	19.7	19.0	17.4	15.7	13.7	10.8											
S/ACM22S/ACM 22S WV	CI	1.5	2	80X65		15.0			13.5	13.0	12.0	11.0	10.5	9.5	8.6	8.0	7.0							
ACM 58 / SW/ACM58	CI	1.5	2	80x65		15.5					14	13	12	11	9									
ACM 59/SW/ACM59	CI	1.5	2	80x80		15					14	13	12	11	9									
S/ACM23/ACM 23* / SW/ACM 23	CI	1.5	2	80X80		17.0		15.3	14.8	14.3	13.8	13.0	12.0	11.0	10.2	9.2	8.0	6.9	5.7					
S/ACM23S / ACM 23S WV	CI	1.5	2	80X80		14.5				12.3	11.5	10.7	9.7	9.5	9.0	8.2	7.2	6.0	5.0					
ACM 37	CI	1.5	2	100 X80		14.5			14.0	13.8	13.6	13.4	13.0	12.7	12.3	11.6	10.8	10.0	8.9	7.9	6.9	5.7		
ACM 36	CI	1.5	2	100X100		15.0			14.2	14.0	13.8	13.5	13.0	12.8	12.4	12.0	11.3	10.3	9.4	8.0	7.0			
S/ACM47/ACM 47	CI	2.2	3	50X50		36.0			30.5	12.5	8.0													

Model	Body	kW	HP	Suction x Delivery in mm	m ³ /hr lps	0	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	5	6	7.1	8	9	10	11	12	13	14	15	16	17	18			
S/ACM29/ACM 29*#	CI	2.2	3	65X50	Head in Metres	25.0		23.0	21.9	20.5	19.0	17.4	15.4	13.4	10.9								
S/ACM30/ACM 30*	CI	2.2	3	80X65		19.5	18.4	18.0	17.6	17.2	16.8	16.3	15.6	14.9	14.1	13.3	12.4	11.4					
S/ACM31/ACM 31	CI	2.2	3	80X80		19.0						16.5	15.8	14.8	14.0	13.2	12.3	11.3	10.2	9.0	8.0		
ACM 35	CI	2.2	3	100X80		16.0		15.7	15.6	15.4	15.0	14.6	14.0	13.4	12.6	12.0	10.8	9.8	8.6	6.8			
S/ACM34/ACM 34	CI	2.2	3	100X100		16.0		15.1	14.9	14.6	14.4	14.0	13.7	13.3	13.0	12.0	11.1	9.6	8.5	7.4			

* Marked pumpsets are having ISI licence # Marked pumpsets are having BEE star label WV - Wide voltage operation LV - Low voltage operation ES - Extension Shafts available S - Sleafk H - High head

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	4	6	8	10	11	12	13	18	20	22	24	24	25	27	32	34	38	40	45		
					lps	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 46	AL	0.37	0.5	50X40	Head in Metres	18.7	17.9	17.0	15.5	13.6	12.4	10.8	9.0													
ACM 39	AL	0.75	1	80x65		12.5								11.7	11.0	10.6	10.2	9.8	9.7	9.6	9.1	8.2	7.5	6.5		
ACM 40 WV ES / WV	AL	0.75	1	80X80		12.8										11.5	11.1	10.8	10.7	10.5	10.1	9.0	8.5	7.6	7.0	6
ACM 40 (S)	AL	0.75	1	80 x 80		8.7		8.2	7.6	6.8	5.8	4.8														
ACM 41	AL	1.1	1.5	80X65		14.0												12.3	12.0	11.9	11.4	10.6	9.8	8.9	8.4	6.7
S/ACM45/ACM 45*#/WV	CI	2.2	3	50X40		37.0							33.0	32.8	32.0	30.0	28.0	26.0	23.0	20.0						
ACM 50 WV	CI	1.5	2	40 x 32		37	36	35	34	33	32.5	32	31													

Model	Body	kW	HP	Suction x Delivery in mm	m ³ /hr		DISCHARGE									
					0	6.1	7.0	8.5	11.7	13.5	13.8	13.9	14.4	15.0		
					lps	0	1.7	1.9	2.4	3.2	3.7	3.8	3.9	4.0	4.2	
SW/ACM16/ACM 16*/WV	CI	1.5	2	50 x 40	Head in Metres	31.8			30	29.8	28	27.5	27	26.5	26.4	24.4

Model	Body	kW	HP	Suction x Delivery in mm	m ³ /hr		DISCHARGE																			
					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			
					lps	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 A0*	AI	0.37	0.5	25X25	Head in Metres	18.0		16.0	15.5	14.0	13.0	12.5	12.0													
ACM A1* WV /ES	AL/CI	0.37	0.5	25X25		20.0		19.8	19.6	18.4	17.9	17.3														
ACM A1 AFS	AL	0.37	0.5	25 x 25																						
ACM A2S ES	AL/CI	0.37	0.5	25X25		27.0		24.0	23.4	21.5	20.8	20.4	19.0	13.0												
ACM A12/ACM A12ES	AL/CI	0.37	0.5	40x40												13.8	13.5	13.2	13	12.5	12.1	11.8	11.6	11	10	
ACM A25	CI	0.37	0.5	32X25		22.0			19.5	18.8	18.5	18.1	17.3	16.5	15.7	14.7										
ACM A48 WV/DF/ES	CI	0.37	0.5	40X40		16.0										12.4	12.0	11.7	11.2	10.7	10.0	9.3	8.5	7.7	6.9	
ACM A2*#	AL/CI	0.75	1	25X25		33.0		30.5	30.0	28.8	28.4	28.0	27.0	14.0												
ACM A24*#	AL/CI	0.75	1	25X25		34.0		32.0	31.6	30.7	30.4	30.0	29.2	15.0												
ACM A3	AL/CI	0.75	1	32x25		28.0				23.8	23.4	23.0	22.2	21.5	20.6	19.8	19.0	18.0	15.0	13.5						
ACM A10 (H)*#	AL/CI	0.75	1	40x40	22.5									20.2	19.7	19.2	18.7	18.1	17.4	16.5	15.7	14.9	13.9	12.7		



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	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
						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
						lps															
						Head in Metres															
ACM A11*# / WV	ALCI	0.75	1	50x40		19.0								15.7	15.6	15.4	15.2	15.0	14.7	14.4	14.2
ACM A15 (H)*#	AL	1.1	1.5	40x32		29.7				27.7	27.3	27.0	26.5	26.0	25.4	24.8	23.7	21.5	19.0	14.2	12.0
ACM A18 (H)*	CI	1.1	1.5	50x40		23.0	21.3	21.2	21.0	20.6	20.3	20.0	19.7	19.4	18.9	18.6	18.0	17.6	16.9	16.0	15.5

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	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	
						lps																
						Head in Metres																
ACM A3(H)	AL	0.75	1	25X25		34.0	31.0	29.7	29.4	29.2	28.7	28.5	28.2	27.5								
ACMA6*#/SW/ACMA6 WV/ES	AL/CI	0.75	1	50X50		14.0						13.5	13.5	13.4	12.2	12.0	9.5	8.8	8.4	7.5		
ACM A38	CI	0.75	1	65X50		14.9								14.3	13.6	13.5	11.2	10.9	10.4	9.0	8.3	
ACM A20* WV ES/WV	CI	1.1	1.5	65x50		17.5									17	16.9	13.5	13	12.2	10.7	9.4	
ACM A20S	AL	1.1	1.5	65X50		15.0								13.8	13.0	12.9	10.4	9.8	9.1	7.8	7.5	
ACM A8	CI	1.1	1.5	50X40		22.0		20.0	19.5	19.4	19.3	19.2	19.2	19.1	16.5	15.6						
ACM A9* WV/ES/WV	CI	1.1	1.5	50X50		15.0											14.0	11.2	10.5	9.6		
ACM A9S / ACMA9S ES	CI	1.1	1.5	50X50		14.0			13.8					13.5	12.6	12.3	10.0	9.2	8.7	5.9		

* Marked pumpsets are having ISI licence # Marked pumpsets are having BEE star label WV - Wide voltage operation LV - Low voltage operation ES - Extension Shafts available S - Sleafk H - High head

PERFORMANCE CHART

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	m ³ /hr	0	3	4.8	6	7.2	8.4	9.6	10.8
						DISCHARGE	0	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	53.5	47	41	36	31	22.8	14.5

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.



Model	Body	kW	HP	Suction x Delivery in mm	m ³ /hr		DISCHARGE																		
					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	25 x 25	Head in Metres	18		16	15.5	14	13	12.5	12												
VIRAT 525N	AL	0.37	0.5	25 x 25		19	17.5	16.5	16	15	14.5	14	13	9	8										
VIRAT 525M	AL	0.37	0.5	25 x 25		21		19.5	19	18	17.5	17													
VIRAT 525H	AL	0.37	0.5	25 x 25		27		24	23	21.5	20.5	20	19												
VIRAT 1025*#	AL	0.75	1	25 x 25		33		31	30	28.5	28	27.5													
VIRAT 1025HH*#	AL	0.75	1	25 x 25		34		32	31.5	30.5	30	29.5	29												
VIRAT 1025M*	AL	0.75	1	32 x 25		28				23.8	23.4	23	22	21.5	21	19.5	19	18	15	14					
VIRAT 1040*#	CI	0.75	1	40 x 40		23								20	19.5	19	18.5	18	17	16.5	16	15	14	13	
VIRAT 1532	AL	1.1	1.5	40 x 32		30							28	27.2	27	26.5	26	25	24.5	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	AL	0.37	0.5	40 x 40	Head in Metres	14.5	12.8	12.5	12.2	12	11.5	11	10.5	10	9.5	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	32 x 25	Head in Metres	33	30	29	28.5	28	27.5	27	26.5	26									
VIRAT 1050 / ES	CI	0.75	1	50 x 50		14								13.5	13	12.2	12	9.5	9	8	7.5	7	
VIRAT 1525H	AL	1.1	1.5	32 x 25		34	31	30	29.4	29	28.7	28.5	28	27.5									
VIRAT 1550M	CI	1.1	1.5	65 x 50		15									14	13	12.5	10.4	9.8	9	8	7.5	
VIRAT 1550 / ES	CI	1.1	1.5	50 x 50		14			13.8						13.5	12.5	12	10	9	8.5	6		

* Marked pumpsets are having ISI licence

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.

Model	Body	kW	HP	Suction x Delivery in mm	m ³ /hr lps	0	10.80	14.40	18.00	21.60	25.20	28.803	32.40
						DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE
VIRAT 1540	CI	1.1	1.5	50 x 40	Head in Metres	21	18	16					
VIRAT 2050*	CI	1.5	2	50 x 50		23	21	20	18	15	9		
VIRAT 2050M*	CI	1.5	2	65 x 50		21	20	19.5	19	17	16	14	11

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