

Experience the ultimate convenience.
Enter the new era of
Intelligent Water Pumping.

V-Guard Pumps & Motors



V-Guard Industries Ltd. ,
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SCAN TO AVAIL THE
**DIGITAL
WARRANTY**
BY REGISTERING YOUR
PRODUCT ONLINE

V-Guard Care
0120 485 0100
1860 180 3000
customercare@vguard.in
9633503333

www.vguard.in/home/customer-care
CIN: L31200KL1996PLC010010





Lasting Performance

The making of V-Guard's Pumps and Motors begins with the procurement of top-grade castings and the finest components. The state-of-the-art manufacturing process is closely monitored with stringent quality checks that meet and exceed international quality standards. The Pumps are built to be sturdy, compact and most importantly, powerful. The Motors make the perfect counterpart for the Pumps by way of delivering superior performance with the least consumption of power. All of this, combined with V-Guard's promise of enriching the consumer's life with thoughtfully engineered products, has come together to make the impeccable combination of V-Guard's Pumps and Motors.

Salient Features



99.9% Copper motor winding



Wide voltage range operation



Assured Quality via Stringent QA process



Guaranteed performance



Silent operation

Products available

AQUSMART PUMPS

| Power Range- 0.37 - 1.5kW (0.5 to 2.0HP) | Flow Range - 10000 - 550LPH
| Head Range - Up to 193m (630 ft) | Electronics-Enabled Smart Pumping Solutions



REGENERATIVE PUMPS

Premium Series | Neon & Revo Series |
Neon N Series | Super & Wonder Suction Series
| Slow Speed Series

CENTRIFUGAL PUMPS

VC-Normal Voltage Series | VCN & Blue Series
| VC-Special & Low Voltage Series | Extended Shaft Series
| VCSW Series | VP Series



BOOSTER PUMPS

Centrifugal Booster Series | Regenerative
Mini Booster Series | Circulatory Series

JET CENTRIFUGAL PUMPS

VJ & VJO Series | Neon Series



OPENWELL PUMPS

VOS & VOSS Series | VOSR Series | Revo Series
| Nova & VOSK Series | VOSV Series

BOREWELL SUBMERSIBLE PUMPS

3" VBS3 & VBS3AM Series | 2.5" NOVA Series | 3" VBS03 Series | 3.5" VBS4SAM Series
| 4" VBS Series | 4" VBSN & VBSNAM Series | 4" NEON Series | 4" VBSR Series
| 4" VBS2 Series | 4" VBSRAM Series | 4" VBSO & VBSAM Series | 4" NOVA Series





BOREWELL COMPRESSOR PUMP FOR LIFTING WATER WITH AIR DISTRIBUTOR PIPE
Monobloc Compressor Pumps
I Belt Driven Compressor pumps

SEWAGE PUMPS

Dry type submersible induction motor I With SS fasteners
I Rugged cast iron pump housing



PRESSURE WASH PUMPS
Powered by copper wound induction motor
I Reinforced pressure hose

PUMP CONTROL PANELS

Powder coated MS and Acrylonitrile Butadiene Styrene (ABS) Panels available
I Provided with pushbutton for voltmeter for enhanced life



THREE PHASE SQUIRREL CAGE MOTORS (IE2)
Three phase Electric motors conform to IS 12615
I Comes in Cast Iron body as well as aluminium body

SINGLE PHASE SQUIRREL CAGE MOTORS

Single phase standard duty and heavy duty motors with performance conform to IS 996 I Comes in Cast Iron body and aluminium body



SINGLE PHASE COMMERCIAL SQUIRREL CAGE MOTORS
Single phase commercial duty motors with performance conform to IS 996 I Comes in MS body

High-pressure pumps for low-stress water solutions

V-GUARD PUMPS are designed and developed by V-Guard Industries Ltd., the company which has carved a niche for itself in the last 44 years with a wide range of electrical & electronic products that are used and trusted by more than 50 million people across India. V-Guard Pumps are made from top-grade castings, finest components and high-quality Gun metal using state-of-the-art technology, to conform to the latest International standards. Besides, each and every stage in the manufacturing process is closely monitored through stringent quality tests to ensure impeccable standards, superior performance and unmatched durability. V-Guard Pumps are available in more than 350 models, ranging from 0.18 HP to 3.00 HP to suit all domestic requirements.

IMPORTANT NOTE

- All performance data & technical specifications given in this brochure are based on our lab tests conducted at standard conditions and are likely to change with various field conditions. Friction and flow losses in pipe fittings have not been calculated.
- As improvements are made in design from time to time, specifications and performance are subject to change without prior information.
- The 'Power' shown in the table indicates the output power of the motor; i.e, input power to the pump. So the actual power consumption, that is the input to the motor will be higher than this output and this fact has to be considered while calculating the connected load.





AQUASmart+ SERIES



Speciality

- Smart Automatic water level controller.
- Pump controlled through a simple mobile application.
- Protects the pump from dry-runs, overload and voltage fluctuations.
- Real-time water level indicator and water consumption trend graph.
- Enabled with smooth voice interactivity.
- Equipped with a unique anti-theft lock system.
- Inbuilt scheduler with real-time settings.
- State-of-the-art aesthetic design for efficient and seamless performance.
- 12 months service warranty.



AQUASmart+

AQUASmart+ Pumps

Smart, Compact and Efficient

Aquasmart pumps are designed for efficient and smooth automatic performance. All operations are controlled through a simple mobile application.

*Max. liquid temperature 45°C

Smart Automatic water level controller

Senses the water level in the tank and automatically turns ON & OFF to provide an uninterrupted flow of water.

Smart mobile application control

Pump controlled through a simple mobile application.

CSR induction motors as prime mover

Provides constant speed and better torque.

99.99% Super enamelled copper windings

Constitutes efficient and long lasting motor.

Superior quality electrical stampings

Ascertain highly efficient motor.

SS410 motor shaft

Offers rust free, stuck free persistent operation.

High quality double sealed ball bearings

For a smooth & silent functioning.

F Class insulation

Improved insulation protection and prevents unwanted energy losses.

Wide voltage band operation

Maintaining consistent performance.

Operating/Technical specifications

Input supply: 1Φ AC, 180-240V*, 50Hz
(*Voltage required at motor input terminal)

Power range: 0.75kW (1HP)

Head range: Up to 53m

Flow range: 3800 - 550 LPH

Rated Speed: 2800rpm

Type of duty: S1 (Continuous)

Insulation class: F

Rotation: Counter clockwise*, when viewed from pump side

PERFORMANCE DETAILS & CURVES

MODEL	POWER		PIPE SIZE (CM)		HEAD IN METERS VS DISCHARGE IN LPH																
	HP	kW	Suction	Delivery	M	6	9	12	15	18	21	24	27	30	33	36	39	42	45	50	53
Aquasmart+	1	0.75	2.5	2.5	LPH	3800	3600	3400	3200	3000	2750	2550	2350	2150	1900	1750	1550	1300	1050	750	550



AQUASmart Pumps

Smooth, Silent and Efficient.

V-Guard Aquasmart Pumps detects the water level in the tank and automatically turns ON & OFF to provide an uninterrupted flow of water. It comes with a Smart Scheduler and a Timer function.

*Max. liquid temperature 45°C

Inbuilt Automatic water level controller

Senses the water level in the tank and automatically turns ON & OFF to provide an uninterrupted flow of water.

Real-time Scheduler

Schedule a set time for the pump's operation whenever you want.

Timer

A timer can be set to shut off the pump as per your requirement.

Device Internal Logs

It automatically logs encountered faults, longest single run & total run time, etc.

99.99% Super enamelled copper windings

Constitutes efficient and long lasting motor.

Superior quality electrical stampings

Ascertain highly efficient motor.

SS410 motor shaft

Offers rust free, stuck free persistent operation.

High quality double sealed ball bearings

For a smooth & silent functioning.

Wide voltage band operation

Maintaining consistent performance.

Operating/Technical specifications

Input supply: 1Φ AC, 180-240V*, 50Hz
(*Voltage required at motor input terminal)

Power range: 0.37 - 1.5kW
(0.5 to 2.0HP)

Head range: Up to 193m

Flow range: 10000 - 550 LPH

Rated Speed: 2800rpm

Type of duty: S1 (Continuous)

Insulation class: B

Rotation: Counter clockwise*,
when viewed from pump side

AQUASmart SERIES



Speciality

- Inbuilt Automatic water level controller
Real-time Scheduler
- A timer can be set to shut off the pump as per your requirement.
- Superior protection from dry run, high/low voltage, overload & locked rotor.
- An inbuilt, smart digital display.
- It automatically logs encountered faults, longest single run, total run time, etc.
- 12 months service warranty.



AQUASmart SF150



AQUASmart CH60



AQUASmart OS-F90



AQUASmart T1013AP-RA



PERFORMANCE DETAILS & CURVES

MODELS	POWER		PIPE SIZE (CM)		TOTAL HEAD IN METERS VS DISCHARGE IN LPH																
	HP	kW	Suction	Delivery	M	6	9	12	15	18	21	24	27	30	33	36	39	42	45		
AQUASmart CH60	0.5	0.37	2.5	2.5	LPH	5500	5000	4400	3600	1900											
AQUASmart SF150	1	0.75	2.5	2.5		2700	2550	2450	2200	2000	1850	1650	1500	1300	1200	1050	850	700	550		

MODELS	POWER		PIPE SIZE (CM)		TOTAL HEAD IN METERS VS DISCHARGE IN LPH								
	HP	kW	Suction	Delivery	M	6	9	12	15	18	21	24	27
AQUASMART OS-F90	1	0.75	2.5	2.5	LPH	*	*	10000	9000	8000	6500	4200	2000

Models	Power		Pipe size (cm)	Total head in metre Vs Discharge in LPH/LPM											
				LPM	80	70	60	50	45	40	35	30	20	15	0
	HP	kW	LPH	4800	4200	3600	3000	2700	2400	2100	1800	1200	900	0	
AQUASmart T1010AP-RC	1.0	0.75	3.2	Head in Metre	*	33	42	48	51	54	57	59	63	64	68
AQUASmart T1013AP-RA	1.0	0.75	3.2		*	*	*	33	44	53	61	68	83	90	98
AQUASmart T1514AP-RC	1.5	1.1	3.2		47	60	70	79	84	88	91	94	98	100	106
AQUASmart T1520AP-RA	1.5	1.1	3.2		*	*	32	55	67	77	87	98	116	123	145
AQUASmart T1525AP-RA	1.5	1.1	3.2		*	*	40	69	84	96	109	123	145	154	180
AQUASmart T2030AP-RA	2.0	1.5	3.2		*	*	*	83	101	115	131	147	174	184	216

Models	Power		Pipe size (cm)	Total head in metre Vs Discharge in LPH/LPM										
				LPM	55	50	45	40	35	30	25	20	15	0
	HP	kW		LPH	3300	3000	2700	2400	2100	1800	1500	1200	900	0
AQUASmart-OT0115	1.0	0.75	3.2	Head in Metre	48	58	68	78	82	90	96	100	103	106
AQUASmart-OT1520	1.5	1.1	3.2		●	60	78	93	105	115	124	134	137	140
AQUASmart-OT0228	2.0	1.5	3.2		90	110	127	145	158	168	180	187	193	197
● Overloading region														

*Overloading region



Regenerative Pumps

Compact, Lucrative, and Hassle free.

For clear, cold* water free from abrasive & chemically aggressive particles to satisfy the needs of Domestic water supply, gardens and Lawn sprinklers.

*Max. liquid temperature 45°C

TEFC*, CSR* / CSCR* / CSIR* induction motors as prime mover

Provides constant speed and better torque.
(*Totally enclosed fan cooled, *Capacitor start and run, #Capacitor start Capacitor run & *Capacitor start induction run)

Cast iron and Aluminium extruded/die-casted Motor body*

Makes extremely compact and light weight.
(*Except for VSP series)

Forged Brass impeller

Ensures prolonged life.

99.99% Super enamelled copper windings

Constitutes efficient and long lasting motor.

Superior quality electrical stampings

Ascertain highly efficient motor.

High quality alloy steel motor shaft

Offers rust free, stuck free persistent operation.

Double sealed ball bearings with life lubrication

Enables smooth and silent functioning.

High quality mechanical seal with graphite face

Contributes leak free operation.

Equipped with Thermal Overload Protector (T.O.P)

Assures safe and secure operation.

Wide voltage band operation

Maintaining consistent performance.

Operating/Technical specifications

Input supply: 1Φ AC, 180-240V*, 50Hz
(*Voltage required at motor input terminal)

Power range: 0.18 – 1.5kW (0.25 to 2HP)

Head range: Up to 63m

Flow range: 6200 – 300LPH

Rated Speed: 2800rpm

Type of duty: S1 (Continuous)

Insulation class: F/B

Rotation: Counter clockwise, when viewed from pump side

Premium Series

VSPA, VSPAD, VSPRC & VSPAR Series



Speciality

- Premium quality pump sets.
- ISI Models available.
- Brass inserted casing for improved performance and serviceability in VSPAR Series.
- Light weight, compact, powder coated aluminium die-casted body in VSPAR & VSPAD Series.
- Cast Iron/powder coated aluminium extruded/Die Casted body.
- F-Class electrical insulation in VSPAR & VSPAD Series while B-Class in VSPA Series.
- Energy efficient motor.
- Stainless steel hardware (except VSPA series).
- IP 55 dust proof and splash proof (only for VSPAR).
- Available models from 0.25 - 1.5HP.
- 12/24/25 months service warranty.



VSPAR-F180



VSPAD-F150



IRONPRIME SF01

PERFORMANCE DETAILS

Models	Power		Pipe size (cm)		Total head in metre Vs Discharge in LPH																			
	HP	kW	Suction	Delivery	m	6	9	12	15	18	21	24	27	30	33	36	39	42	45	50	53	55	60	63
Super Premium Model																								
VSPAR-F180**	1.0	0.75	2.5	2.5	LPH	3800	3500	3200	3000	2800	2600	2500	2350	2150	2050	1850	1700	1600	1400	1200	1100	1000	700	
*Super premium model with 25 months service warranty.																								
Premium Models																								
VSPA-Q60	0.25	0.18	2.0	2.0	LPH	1500	1300	1100	925	750														
VSPA-H80 PRO	0.5	0.37	2.5	2.5		1850	1700	1500	1300	1100	925	750	500											
VSPAD-H100*	0.5	0.37	2.5	2.5		2200	1840	1700	1550	1400	1250	1150	980	720										
VSPAD-F110	1.0	0.75	2.5	2.5		2550	2350	2150	1950	1730	1500	1250	1000	750										
VSPAD-F150*	1.0	0.75	2.5	2.5		3550	3350	3100	3000	2800	2550	2450	2200	2050	1900	1700	1500	1300	1100					
VSPA-F160-PRO*	1.0	0.75	2.5	2.5		3600	3450	3300	3100	2900	2700	2550	2300	2100	1950	1750	1550	1350	1200	950				
VSPAD-FH180	1.5	1.1	2.5	2.5		4500	4350	4200	4000	3800	3650	3450	3250	3000	2800	2600	2400	2200	2000	1700	1450	1300	900	600
Models	Power		Pipe size (cm)			Total head in metre Vs Discharge in LPH																		
	HP	kW	Suction	Delivery	m	6	9	12	15	18	21	24	27	30	33	36	39	42	45	50	53	55	60	63
Premium Models																								
IRONPRIME SH01	0.5	0.37	2.5	2.5	LPH	2400	2250	2050	1850	1600	1350	1100	800											
VSPRC-H80-PRO	0.5	0.37	2.5	2.5		1900	1650	1400	1250	1050	850	650	450											
IRONPRIME SF01	1.0	0.75	2.5	2.5		3200	2950	2700	2500	2300	2100	1900	1700	1500	1250	1000	750							
VSPRC-TW200	2.0	1.5	3.2	2.5		6200	5800	5500	5250	5000	4800	4600	4350	4150	3900	3700	3450	3180	2950	2550	2300	2125	1800	1500
*ISI Models		# Overloading region																						

*ISI Models #Overloading region

VFILL, CARNA & NERISSA Series

Speciality

- Aluminium extruded powder coated motor body.
- High quality alloy steel motor shaft.
- Wound with super-enameled Class H (180°C) copper wire (1st in segment)
- B Class electrical insulation.
- Powder coated castings.
- Superior Hydraulic design for faster self-priming.
- Rubber sealed ball bearing with long-life lubrication.
- 12/18 months service warranty.



VFILL SF01



VFILL SH01



VFILL SH02



CARNA SH01



NERISSA SF01

PERFORMANCE DETAILS

Models	Power		Pipe size [cm]		Total head in metre Vs Discharge in LPH									
	HP	kW	Suction	Delivery	m	6	9	12	15	18	21	24	27	30
V FILL Series - Normal voltage models														
VFILL SH01	0.5	0.37	2.5	2.5	LPH	1450	1300	1150	1000	800	600	400		
VFILL SH02	0.5	0.37	2.5	2.5		1850	1700	1500	1300	1100	925	750	500	
VFILL SF01	1.0	0.75	2.5	2.5		3000	2700	2400	2150	1900	1650	1400	1100	800
CARNA Series - Normal voltage models														
CARNA SH01	0.5	0.37	2.5	2.5	LPH	1450	1300	1150	1000	800	600	400		
CARNA SF01	1.0	0.75	2.5	2.5		3000	2700	2400	2150	1900	1650	1400	1100	800
NERISSA Series - High voltage models (270-200V)														
NERISSA SH01	0.5	0.37	2.5	2.5	LPH	1450	1300	1150	1000	800	600			
NERISSA SF01	1.0	0.75	2.5	2.5		2600	2350	2100	1900	1700	1480	1280	1050	750

NEON Series

Speciality

- ISI models are available.
- Aluminium extruded powder coated motor body.
- Powder coated castings (NEON-RH110 & NEON RF 110).
- High Quality alloy steel Motor shaft.
- B-Class electrical insulation.
- Zinc coated hardware.
- 12/24 months service warranty.
- Available models from 0.5 - 1.5HP.



NEON-RF150



NEON-RF110



NEON-RFH150

PERFORMANCE DETAILS

Models	Power		Pipe size (cm)		Total head in metre Vs Discharge in LPH																
	HP	kW	Suction	Delivery	m	6	9	12	15	18	21	24	27	30	33	36	39	42	45	48	50
NEON-NH60	0.5	0.37	2.5	2.5	LPH	1500	1300	1100	925	750											
NEON-RH110*	0.5	0.37	2.5	2.5		2100	1950	1800	1550	1400	1250	1100	900	750	550						
NEON-RF110	1.0	0.75	2.5	2.5		2420	2200	2000	1780	1550	1350	1100	900	580							
NEON-RF130	1.0	0.75	2.5	2.5		2100	1950	1750	1600	1450	1250	1100	950	750	600	450					
NEON-RF150*	1.0	0.75	2.5	2.5		2700	2550	2450	2200	2000	1850	1650	1500	1300	1200	1050	850				
NEON-RFH150	1.5	1.1	2.5	2.5		4500	4200	3900	3700	3500	3250	3000	2750	2500	2250	2000	1750	1500	1275	1050	950
*ISI models																					

XYRO Series



- Speciality
- Aluminium extruded powder coated motor body.
 - 100% copper main winding
 - High Quality alloy steel Motor shaft.
 - B-Class electrical insulation.
 - Powder coated castings.
 - Rubber sealed ball bearing with long-life lubrication.
 - 12 months service warranty.



XYRO SH01



XYRO SF01

PERFORMANCE DETAILS

Models	Power		Pipe size (cm)		Total head in metre Vs Discharge in LPH									
	HP	kW	Suction	Delivery	m	6	9	12	15	18	21	24	27	30
XYRO Series - High voltage models (270-200V)														
XYRO SH01	0.5	0.37	2.5	2.5	LPH	1450	1300	1150	1000	800	600			
XYRO SF01	1.0	0.75	2.5	2.5		2600	2350	2100	1900	1700	1480	1280	1050	750

SUPER & WONDER Suction Series



- Speciality
- Faster self priming capability
 - Aluminium extruded motor body with FG 200 Castings.
 - Cast Iron motor body is also available. (VSPS series & VSPA W F100)
 - ISI models available in Super & Wonder suction Series.
 - FG-260 castings in VSPS-H100.
 - High Quality alloy steel Motor shaft.
 - B-Class electrical insulation.
 - Zinc coated hardwares.
 - Available up to 1.0HP.
 - 12/18 months service warranty.



VSPA W-F100



NEON-WSH100



VSPS-H100

PERFORMANCE DETAILS

Models	Power		Pipe size (cm)		Total head in metre Vs Discharge in LPH												
	HP	kW	Suction	Delivery	m	6	9	12	15	18	21	24	27	30	33	36	38
Super Suction Models																	
VSPASN-H100	0.5	0.37	2.5	2.5	LPH	1950	1675	1500	1350	1250	1125	1000	850	600			
VSPSN-H100	0.5	0.37	2.5	2.5		1950	1675	1500	1350	1250	1125	1000	850	600			
VSPAS-H100	0.5	0.37	2.5	2.5		2100	1700	1550	1400	1250	1100	1000	800	550			
VSPS-H100*	0.5	0.37	2.5	2.5		2300	1900	1780	1600	1450	1300	1200	1000	750			
VSPS-F100	1.0	0.75	2.5	2.5		3200	3000	2800	2550	2400	2300	2150	1900	1700	1500	1300	1100
Wonder Suction Models																	
NOVA-WSH100	0.5	0.37	2.5	2.5	LPH	1700	1500	1300	1100	900	700	500	300				
NEON-WSH100	0.5	0.37	1.25	1.25		1600	1500	1300	1150	1050	900	750	600	400			
NEON-WSF100	1.0	0.75	2.5	2.5		2150	2000	1850	1700	1500	1350	1200	1050	850			
VSPA W-F100	1.0	0.75	2.5	2.5		2200	2000	1850	1700	1500	1350	1200	1050	950			
*ISI model																	

Slow Speed Series
VSP Series



Speciality

- 1440 rpm motors with Minimum wear and tear.
- Higher self-priming capabilities.
- Rigid Cast Iron/MS Body imparts longer endurance and easy maintenance.
- High tensile brass impeller.
- B-Class electrical insulation.
- 12 months service warranty.



VSPM-F130



VSP-H80



VSPR-F130

PERFORMANCE DETAILS

Models	Power		Pipe size (cm)		Total head in metre Vs Discharge in LPH													
	HP	kW	Suction	Delivery	m	6	9	12	15	18	21	24	27	30	33	36	39	42
VSPN-H80 / 1440	1.0	0.75	2.5	2.5	LPH	2500	2300	2100	1800	1500	1100	800						
VSP-H80 / 1440	0.5	0.37	2.5	2.5		2500	2300	2100	1900	1650	1300	1100						
VSPN-F130/1440	1.0	0.75	2.5	2.5		3300	3200	3100	2850	2700	2450	2200	2000	1800	1550	1350	1050	750
VSPM-F130 / 1440	1.0	0.75	2.5	2.5		3300	3100	2900	2650	2400	2150	1900	1650	1400	1175	950	725	500
VSPC-F130 / 1440	1.0	0.75	2.5	2.5		3400	3300	3200	2950	2800	2550	2300	2100	1900	1650	1450	1150	850
Single Capacitor Models																		
VSPR-H80 / 1440	0.5	0.37	2.5	2.5	LPH	2800	2500	2300	2050	1850	1350	1000						
VSPR-F130 / 1440	1.0	0.75	2.5	2.5		3300	3200	3100	2800	2600	2450	2150	1950	1700	1450	1200	950	750

Precautions to use Regenerative Pumps !

- Ensure sufficient ventilation to the pump set and then cover it suitably for protection against unfavorable conditions of weather.
- Connect quality strainers at suction pipe to check entry of foreign particles in to.
- Use standard and proper size cable for electrical connection.
- Cable joint should be intact and as per Instruction manual.
- If seems as if stuck, do electrically isolate the pump set first and then rotate it manually for any stuck; if not, then restart it.



Centrifugal Pumps

Sturdy, Durable and Ace pumping.

For clear, cold* water free from abrasive & chemically aggressive particles to satisfy the needs of domestic water supply, gardens, small farms, irrigation and agricultural applications, draining of wells and tanks, filling water in swimming pool.

*Max. liquid temperature 45°C

TEFC, Capacitor start and run type induction motor

Provides constant speed and better torque.

Rigid Cast Iron-FG200/Aluminium extruded Motor body

Ensures constructional ruggedness for long lasting consistent performance.

Cast iron impeller*

Ensures prolonged operating life.

(*Except for BLUE-CH45, BLUE-CH60, VCN-H80 (Noryl) and VCA-TF80 (Gun metal)).

99.99% Super enamelled copper windings

Constitutes efficient and long lasting motor.

Superior quality electrical stampings

Ascertains highly efficient motor.

High quality alloy steel motor shaft

Offers rust free, stuck free persistent operation.

Double sealed ball bearings with life lubrication

Enables smooth and silent functioning.

High quality mechanical seal with graphite face

Contributes leak free operation.

Equipped with Thermal Overload Protector (T.O.P)

Assures safe and secure operation.

Wide voltage band operation

Maintaining consistent performance.

Operating/Technical specifications

Input supply: 1Φ AC, 120-240V*, 50Hz
[*Voltage required at motor input terminal]

Power range: 0.37 – 2.2kW (0.5 to 3HP)

Head range: Up to 42m

Flow range: 67200 – 400LPH

Rated Speed: 2800rpm

Type of duty: S1 (Continuous)

Insulation class: F/B

Rotation: Counter clockwise, when viewed from pump side



VC Series - Normal Voltage



Speciality

- Premium quality pump sets.
- Energy efficient motor.
- ISI Models and Star rated models available.
- Cast iron impeller.
- High quality alloy steel motor shaft.
- F-Class electrical insulation in VCS F80; rest of all are B-class.
- Available up to 3HP.
- 12/24 months service warranty.



VC-H60



VCA-TF90



VCS-F80

PERFORMANCE DETAILS

Models	Power		Pipe size (cm)		Total head in metre Vs Discharge in LPH													
	HP	KW	Suction	Delivery	m	3	6	9	12	15	18	21	24	27	30	33	42	
VC-H40	0.5	0.37	4.0	4.0	LPH	*	12000	10000	6500									
VC-H45*	0.5	0.37	2.5	2.5		*	5300	4500	3300	2100								
VC-H50	0.5	0.37	2.5	2.5		*	6000	5000	3500	2300								
VC-H60*	0.5	0.37	2.5	2.5		*	7000	6500	6000	4800	2500							
VC-H80	0.5	0.37	2.5	2.5		*	*	*	6500	5500	4500	3600	1250					
VCA-TF80	0.75	0.55	2.5	2.5		*	*	*	7000	6000	5000	4000	2500	600				
VCA-TF90	0.75	0.55	2.5	2.5		*	*	*	7800	7000	6200	5500	5000	3300				
VC-F25	1.0	0.75	7.5	7.5		62000	45000	23000										
VC-F40	1.0	0.75	5.0	5.0		27000	25000	19000	13000									
VC-F60*	1.0	0.75	4.0	4.0		*	15000	13200	12500	7150	5500							
VC-F80	1.0	0.75	3.2	2.5		*	*	*	9700	9000	8000	6800	5500					
VCS-F80	1.0	0.75	3.2	2.5		*	*	*	8600	7200	6500	5500	4000					
VC-F100	1.0	0.75	3.2	2.5		*	*	*	8500	8300	7700	7100	6200	5500	4450			
VC-FH35	1.5	1.1	7.5	7.5		*	38000	28000	23000@10mtr									
VC-FH40	1.5	1.1	6.5	5.0		34000	30000	26000	23000									
VC-FH45	1.5	1.1	5.0	5.0		31100	28500	25500	22000	17100								
VC-FH70	1.5	1.1	5.0	4.0		*	20000	19000	17000	12800	10000	5000						
VC-FH100	1.5	1.1	4.0	3.2		*	*	*	*	12000	10500	9000	6900	3000				
VC-FH140	1.5	1.1	3.2	2.5		*	*	*	*	7500	7400	6800	6200	5600	5000	4000	2000	
VC-TW30	2.0	1.5	10	10		67200	57600	42000										
VC-TW40	2.0	1.5	7.5	7.5		*	50000	40000	33000									
VC-TW70	2.0	1.5	6.5	5.0		*	*	*	28000	25000	21000	13000						
VC-TW80	2.0	1.5	4.0	4.0		*	*	*	16080	15300	14280	13500	11000					
VCS-TW100	2.0	1.5	4.0	3.2		*	*	*	14500	13500	12500	11000	9000	7500	5000			
VCR-TW100	2.0	1.5	5.0	4.0		*	*	*	*	*	21500	20500	19000	16200	7000			
REVO-CRTW100	2.0	1.5	5.0	4.0		*	*	*	*	*	20000	18000	15000	12000	5800			
VC-TW110	2.0	1.5	4.0	4.0		*	*	*	*	*	*	10800	9600	8100	5700	3900		
VC-TR120	3.0	2.2	5.0	5.0		*	*	*	*	30000	28500	25000	23000	17000	12000			
*Star rated model *ISI models * Over loading region																		

* Star rated model * ISI Models * Over loading region

VCN, BLUE & CARNA Series



Speciality

- Anti-corrosive Polymer pump side. For pumping Saline Water. (VCN PH80)
- Aluminium extruded Motor body* [*Cast Iron body for VCN-F60, VCN-F40].
- ISI models available in VCN series.
- Available with Cast iron / Noryl impeller.
- Comes with B-Class / F-Class (VCN-F80) electrical insulation.
- 12 months service warranty.



VCN-F40



BLUE-CH45



CARNA-CH60



VCNP-H80

PERFORMANCE DETAILS

Models	Power		Pipe size (cm)		Total head in metre Vs Discharge in LPH								
	HP	KW	Suction	Delivery	m	3	6	9	12	15	18	21	24
VCN-H80	0.5	0.37	2.5	2.5	LPH	*	*	*	6000	5000	4000	3300	1000
VCNP-H80	0.5	0.37	2.5	2.5		6600	6200	5800	5100	4300	3600	2400	600
VCN-F25	1.0	0.75	7.5	7.5		50000	36000	20000@8mtr					
VCN-F40	1.0	0.75	5.0	5.0		27000	25000	15000	9000				
VCN-F60	1.0	0.75	5.0	4.0		*	19000	17300	12600	7800			
VCN-F80	1.0	0.75	2.5	2.5		*	*	*	8000	6800	6500	5500	4000
VCN-FH40	1.5	1.1	5.0	5.0		30000	26000	22000	12000				
VCN-TR50	3.0	2.2	10.0	10.0		*	67000	55000	36000				

Models	Power		Pipe size (cm)		Total head in metre Vs Discharge in LPH								
	HP	kW	Suction	Delivery	m	6	9	12	15	18	21	24	27
BLUE-CH45*	0.5	0.37	2.5	2.5	LPH	5000	4000	2600	1800				
BLUE-CH60*	0.5	0.37	2.5	2.5		6500	6000	5500	3600	1900			
BLUE-CF80	1	0.75	3.2	2.5		*	*	9000	8500	7000	6000	4000	
BLUE-CF90	1	0.75	2.5	2.5		*	*	7800	7300	6600	5800	5100	3400
Models	Power		Pipe size (cm)		Total head in metre Vs Discharge in LPH								
	HP	kW	Suction	Delivery	m	6	9	12	15	18	21	23	
CARNA-CH45	0.5	0.37	2.5	2.5	LPH	5000	4000	2600	1800				
CARNA-CH60	0.5	0.37	2.5	2.5		5500	5000	4400	3600	1900			
CARNA-CH80	0.5	0.37	2.5	2.5		*	*	6800	6000	4900	2900	1900	

* Star Rated Models # ISI Models * Overloading region

VC Series - Special & Low Voltages



Speciality

- Low voltage models (Voltage range 120-200V) as well as wide voltage models are available.
- Rigid Cast Iron-FG200 Motor body.
- B-Class & F-Class electrical insulation.
- Available up to 3 HP.
- 12 months service warranty.



VCL-H40



VCL-TW40



VCS-TW30

PERFORMANCE DETAILS

Models	Power		Pipe size (cm)		Total head in metre Vs Discharge in LPH											
	HP	kW	Suction	Delivery	m	3	6	9	12	15	18	21	24	27	30	
Special Voltage Models																
VCS-F40	1.0	0.75	5.0	5.0	LPH	30000	26000	21000	15000							
VCS-FH50	1.5	1.1	6.5	5.0		*	35000	28000	22000	15500						
VCS-TW30	2.0	1.5	10	10		62500	53000	38000								
VCS-TW40	2.0	1.5	7.5	7.5		*	53500	45000	31000							
VCSE-TW40#	2.0	1.5	7.5	7.5		*	53500	45000	31000							
VCSN-TW40	2.0	1.5	7.5	7.5		*	45000	35000	20000							
VCS-TW70 PLUS	2.0	1.5	6.5	5.0		*	35000	30000	25000	20000	12000					
VCS-TW80	2.0	1.5	5.0	5.0		*	*	*	25000	20000	16000	10000				
VCS-TR50	3.0	2.2	10.0	10.0		*	67000	59000	48500	24000						
VCSN-TR50	3.0	2.2	10.0	10.0		*	67000	55000	36000							
VCS-TR120	3.0	2.2	5.0	5.0		*					30000	28000	25000	30000	17000	12000
Low Voltage Models																
VCL-H40	0.5	0.37	4.0	4.0	LPH	12000	9500	8000	5000							
VCL-H45	0.5	0.37	2.5	2.5		*	5300	4500	3300	2100						
VCL-H50	0.5	0.37	10	10		*	5300	4500	3300	2100						
VCL-F40	1.0	0.75	5.0	5.0		27000	25000	19000	13000							
VCL-TW30	2.0	1.5	10	10		57000	48000	33000								
VCL-TW40	2.0	1.5	7.5	7.5		*	44000	33500	20000							
*Overloading region #Extended shaft																

*Overloading region *Extended shaft

Special Application Centrifugal Pumps
Extended Shaft



Speciality

- Specially designed to operate with prime movers other than induction motors and in certain situations as a prime mover for other machines as well.
- Rigid Cast Iron-FG200 body ensures constructional ruggedness.
- Equipped with B-Class insulation.
- 12 months service warranty.



VCN-F40



VCE-H40



VCE-TW40

PERFORMANCE DETAILS

Models	Power		Pipe size (cm)		Total head in metre Vs Discharge in LPH				
	HP	kW	Suction	Delivery	m	3	6	9	12
VCE-H30	0.5	0.37	4.0	4.0	LPH	18000	15000	9000	
VCE-H40	0.5	0.37	4.0	4.0		12000	9500	8000	6000
VCE-F25	1.0	0.75	7.5	7.5		62000	45000	23000	
VCE-F40	1.0	0.75	5.0	5.0		27000	25000	19000	13000
VCE-TW40	2.0	1.5	7.5	7.5		*	50000	40000	33000
* Overloading region									

VCSW Series (Self-Priming Centrifugal Jet)



Speciality

- Aluminium extruded motor body with FG 200 Castings.
- Available with Cast Iron, Noryl and Stainless steel Impeller.
- Having B-Class electrical insulation.
- Suction Capacity upto 9 metre.
- 12 months service warranty.



VCSWS-F120



VCSW-F120



VCSW-F120 PRO



VCSW-NH70

PERFORMANCE DETAILS

Models	Power		Pipe size (cm)		Total head in metre Vs Discharge in LPH													
	HP	kW	Suction	Delivery	m	3	6	9	12	15	18	21	24	27	30	33	36	39
VCSW-NH70	0.5	0.37	2.5	2.5	LPH	*	2170	2000	1700	1300	950	500						
VCSW-H90	0.5	0.37	2.5	2.5		*	3500	3300	3250	3150	2850	2400	1750	1350				
VCSW-F120	1.0	0.75	2.5	2.5		*	3700	3600	3450	3300	3150	2900	2700	2300	1750	900	600	
VCSWS-F120	1.0	0.75	2.5	2.5		*	3700	3600	3450	3300	3150	2900	2700	2300	1750	900	600	
VCSW-F120 PRO	1.0	0.75	2.5	2.5		*	3700	3600	3450	3300	3150	2950	2700	2300	1750	1200	800	400
* Overloading region																		

POWERFUL PUMPS.
V-GUARD PUMPS.





Booster Pumps

Up-surged, Incessant and Reliable.

For clear, cold* water free from abrasive & chemically aggressive particles to satisfy the needs of residential pressure boosting applications

*Max. liquid temperature 90°C

Aluminium pressure die-casted body

For non-corrosive, long lasting life.

Brass/SS/Noryl Impeller

For rust free and consistent performance.

99.9% pure copper winding wires

Provides better electrical operational characteristics.

Superior quality electrical stampings

Ascertain highly efficient motor.

SS410 motor shaft

Offers rust free, stuck free persistent operation.

High quality double sealed ball bearings

For a smooth & silent functioning.

F Class insulation

Improved insulation protection and prevents unwanted energy losses.

SS Hardwares

Ensures endurance against aggressive corrosion failures.

World class pressure tanks

Imported tanks are meant to assure safe working and prolonged operational consistency.

Operating/Technical specifications

Input supply: 1Φ AC, 180-240V*, 50Hz
(*Voltage required at motor input terminal)

Power range: 0.14 – 1.1kW
(0.18 to 1.5HP)

Flow range: 7900 - 450 LPH

Pressure range: 1.5 - 4.5 bar

Rated Speed: 2800rpm

Type of duty: S1 (Continuous)

Insulation class: F

Rotation: Counter clockwise*, when viewed from pump side
(*Anti clockwise for VB24-F5E)

Centrifugal Booster Series

Speciality

- Premium quality pump sets.
- Rust preventive Aluminium die-casted motor body.
- Rigid built cast iron casings.
- Stainless steel hardwares.
- Fitted with hot water seal.
- Imported pressure tank.
- F-class insulation.
- Suitable for hot water application.
- Float switch for dry run protection.

Accessories



Pressure Tank



Pressure sensing switch



Pressure gauge



Float switch



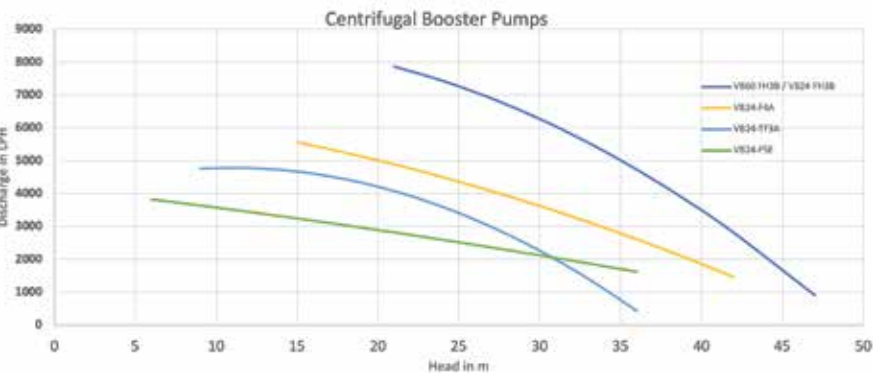
VB60-FH3B

PERFORMANCE DETAILS & CURVES

Models	Power		Pipe size (cm)		Total head in metre Vs Discharge in LPH														
	HP	kW	Suction	Delivery	m	6	9	12	15	18	21	24	27	30	33	36	39	42	47
VB18-H2A	0.5	0.37	2.5	2.5	LPH	*	5250	4400	3600	2650	1750	1100 @23m							
VB18-H3E	0.5	0.37	2.5	2.5			3000	2550	2200	1500	1000								
VB24-TF3A	0.75	0.55	2.5	2.5		*	*	5250	5000	4450	4000	3450	2900	2300	1800	1100			
VB24-F5E	1.0	0.75	2.5	2.5		3750	3650	3500	3300	3100	2800	2500	2300	2100	1900	1650			
VB24-F4A	1.0	0.75	2.5	2.5		*	*	*	5600	5250	4900	4400	4000	3700	3150	2650	2150	1350	
VB24-FH3B	1.5	1.1	2.5	2.5		*	*	*	*	*	7900	7400	6800	6150	5800	5000	3500	2700	1000
VB60-FH3B	1.5	1.1	2.5	2.5		*	*	*	*	*	7900	7400	6800	6150	5800	5000	3500	2700	1000

Models	Power		Pump Stage	Type of Tank	Tank Capacity (L)	Drawdown capacity (L)	Pressure setting range (kg/cm ²)	Max capacity (LPH)	Approximate suitable for
	HP	kW							
VB18-H2A	0.5	0.37	2	Inline	18	7	1.0 to 2.0	3000	2 Bathrooms
VB18-H3E	0.5	0.37	3	Inline	18	7	1.0 to 2.0	1500	2 Bathrooms
VB24-TF3A	0.75	0.55	3	Inline	24	10	2.0 to 3.5	5600	3 Bathrooms
VB24-F5E	1.0	0.75	5	Inline	24	10	1.5 to 3.5	3750	3 Bathrooms
VB24-F4A	1.0	0.75	4	Inline	24	12	2.0 to 4.0	6000	4 Bathrooms
VB24-FH3B	1.5	1.1	3	Inline	24	12	2.0 to 4.0	9500	5 Bathrooms
VB60-FH3B	1.5	1.1	3	Inline	60	35	2.0 to 4.5	9500	5 Bathrooms

*Overloading region



Regenerative Mini Booster Pumps

Speciality

- Premium quality pump sets.
- Rust preventive Aluminium die-casted/extruded* (VB1 H1S LITE) motor body.
- Rigid built cast iron casing.
- Stainless steel hardware.
- Brass impeller.
- Imported pressure tank.
- F/B - class insulation.
- Suitable for hot water application.

Accessories



Pressure Tank



Pressure sensing switch



VB1-H1S



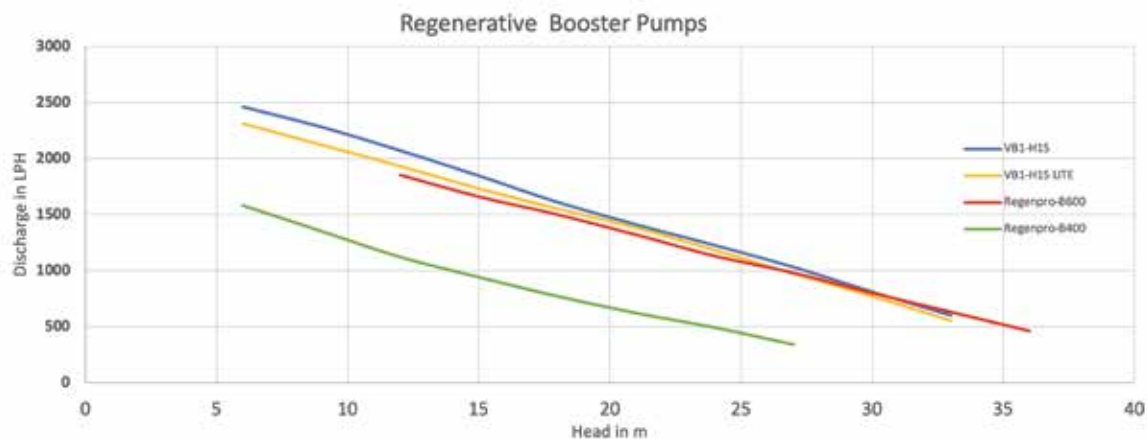
VB1-H1S LITE

PERFORMANCE DETAILS & CURVES

Models	Power		Pump Stage	Tank Capacity (L)	Drawdown capacity (L)	Presetting pressure (kg/cm²)	Max capacity (LPH)	Approximate suitable for
	HP	kW						
VB1-H1S	0.5	0.37	1	1	0.5	1.5 to 3.0	2460	2 Bathrooms
VB1-H1S LITE	0.5	0.37	1	1	0.5	1.5 to 3.0	2310	1 Bathrooms
REGENPRO-B600	0.5	0.37	1	1	0.5	2.0 (cut in)	1855	2 Bathrooms
REGENPRO-B400	0.5	0.37	1	1	0.5	2.0 (cut in)	1580	1 Bathrooms

Models	Power		Pipe size (cm)		Total head in metre Vs Discharge in LPH											
	HP	kW	Suction	Delivery	m	6	9	12	15	18	21	24	27	30	33	36
VB1-H1S	0.5	0.37	2.5	2.5	LPH	2460	2280	2070	1845	1610	1410	1225	1030	810	600	
VB1-H1S LITE	0.5	0.37	2.5	2.5		2310	2120	1930	1730	1550	1380	1180	970	770	550	

Models	Power		Pipe size (cm)		Total head in metre Vs Discharge in LPH											
	HP	kW	Suction	Delivery	m	6	9	12	15	18	21	24	27	30	33	36
REGENPRO-B600	0.5	0.37	2.5	2.5	LPH			1855	1660	1500	1320	1130	980	800	630	460
REGENPRO-B400	0.5	0.37	2.5	2.5		1580	1350	1120	940	770	620	490	340			



Circulatory Pumps

Speciality

- High efficiency Inline circulating pump.
- Vibration-less, noiseless operation.
- Generates constant pressure.
- B class electrical insulation.
- IP 44 protection.
- Automatic and Manual operation.
- Suitable for hot water application.



VCB14-F030



VCB25-F040

Operating/Technical specifications

Input supply: 1Φ AC, 160-240V*, 50Hz
(*Voltage required at motor input terminal)
Current: 0.54 A
Power: 140W [0.18HP]
Pressure: 1bar
Discharge: 1800LPH
Max.Head: 9 metre
Insulation Class: B
Pipe Size: 1.2 cm x 1.2 cm

Operating/Technical specifications

Input supply: 1Φ AC, 160-240V*, 50Hz
(*Voltage required at motor input terminal)
Current: 1.13 A
Power: 250W [0.33HP]
Pressure: 1.3 bar
Discharge: 3000LPH
Max.Head: 13 metre
Insulation Class: F
Pipe Size: 2 cm x 2 cm

Precautions to use Booster Pumps !

- Pump should be protected against weather by giving proper covering.
- The pump must be used for handling clear, cold fresh water, having the (Max. liquid temperature 45°C, Equipped with hot water seal upto 90°C) characteristics specified as Max. Chloride ion density 500 ppm, Total solids - 3000 ppm, pH value - 6.5 to 8, Specific gravity 1.004, Hardness: 300 mg.
- All pipe joints must be leak proof; it is advisable to use GI/PVC pipes with ISI mark.
- Check the pre-charged air pressure inside the pressure tank periodically to ensure the smooth working of pressure booster pump.
- A bypass line should be provided to facilitate normal flow of water in the absence of electricity.
- The difference in pressure should not be lesser than 1.9 bar in Centrifugal Booster Pumps.



Jet Centrifugal Pumps

Persistent, Steadfast and Lofty up lifter.

For clear, cold* water free from abrasive & chemically aggressive particles to satisfy the needs of deep water source- lifting applications. Also suitable for 5, 7.5, 10 & 15 cm borewell applications.

*Max. liquid temperature 45°C

Dynamically Balanced Impeller

Provides better consistent performance

Specially designed Gunmetal Jet Assembly

Ensures corrosion free long life.

TEFC, CSCR type induction motors as prime mover

Provides constant speed and better torque.

99.99% Super enamelled copper winding

Constitutes efficient and long lasting motor.

Superior quality electrical stamping

Ascertain highly efficient motor

High quality alloy steel motor shaft

Offers rust free, stuck free persistent operation.

Double sealed ball bearings with life lubrication

Enables smooth and silent functioning.

High quality mechanical seal with graphite face

Contributes leak free operation

Equipped with Thermal Overload Protector (T.O.P)

Assures safe and secure operation.

Wide voltage band operation

Allows maintaining consistent performance.

Operating/Technical specifications

Input supply: 1Φ AC, 180-240V*, 50Hz
(*Voltage required at motor input terminal)

Power range: 0.37 – 1.1kW (0.5 to 1.5HP)

Head range: Up to 70m

Flow range: 3400 – 100LPH

DLWL Range: Up to 70m

Rated Speed: 2800rpm

Type of duty: S1 (Continuous)

Insulation class: B

Rotation: Counter clockwise, when viewed from pump side

VJ & VJ0 Series

Speciality

- Premium quality pump sets.
- CI FG200 Impeller. (Except for VJON Models)
- Cast Iron/Gunmetal Jet assembly.
- B-class electrical insulation.
- Energy efficient motor.
- Available up to 1.5HP.
- 12 months service warranty.



VJON-F100

Accessories



Jet assembly

PRV



VJ-H70

PERFORMANCE DETAILS

Models	Power		Pipe size (cm)	DLWL* in metre Vs Discharge in LPH																
	HP	KW	Suc X Pre X Del	m	9	12	15	18	21	24	27	30	33	36	39	42	45	48	51	54
VJ -H70	0.5	0.37	3.2x2.5x2.5	LPH	1450	1250	1050	800	600											
VJG - F80	1.0	0.75	4x3.2x2.5		1700	1620	1500	1425	1350	1300										
VJ-FH180BW	1.5	1.1	3.2x2.5x2.5		*	*	*	*	*	*	1100	1075	1050	1000	900	800	750	700	650	500
*Depth to low water level																				

*Depth to low water level

Models	Power		Pipe size (cm)	DLWL in metre Vs Discharge in LPH									
	HP	kW	Suc X Pre X Del	m	9	12	15	18	21	24	27	30	
VJON-F80	1.0	0.75	4x3.2x2.5	LPH	2000	1500	1000	500					
VJON-F100BW	1.0	0.75	3.2x2.5x2.5		1550	1300	1200	1125	1000	850	750	675	

VJP2 & VJT Series



VJP2-F100



VJT-F200

PERFORMANCE DETAILS

Models	Power		Pipe size (cm)	DLWL in metre Vs Discharge in LPH									
	HP	kW	Suc X Pre X Del	m	30	35	40	45	50	55	60	65	70
VJT-F200	1.0	0.75	3.2x2.5x2.5	LPH	*	1080	936	720	504	324	210	130	100

Models	Power		Pipe size (cm)	DLWL in metre Vs Discharge in LPH									
	HP	kW	Suc X Pre X Del	m	6	9	12	15	18	21	24	27	30
VJP2-F100*	1.0	0.75	3.2x2.5x2.5	LPH	*	1800	1550	1300	1000	700	550	300	100
VJP2H-F100**	1.0	0.75	3.2x2.5x2.5		*	1800	1550	1300	1000	700	550	300	100

*Packer Jet **High Voltage design (Working range 200-280V)

NEON Series

Speciality

- FG 200 CI Impeller
- Aluminium extruded motor body with FG 200 Casting for Neon JF80
- Brass/Cast Iron jet assembly
- High Quality alloy steel Motor shaft
- B-Class electrical insulation

Accessories



Jet assembly



PRV

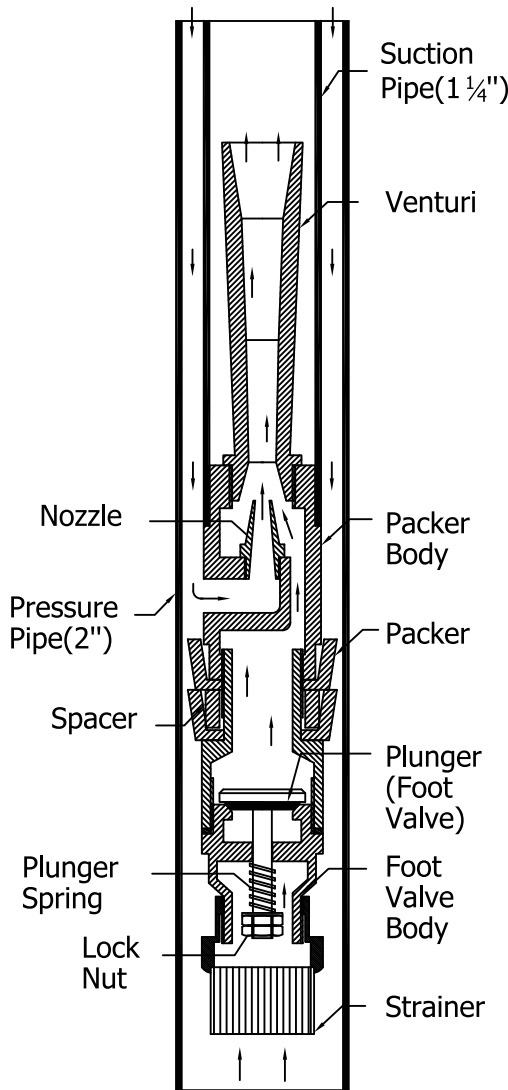


NEON-JF80

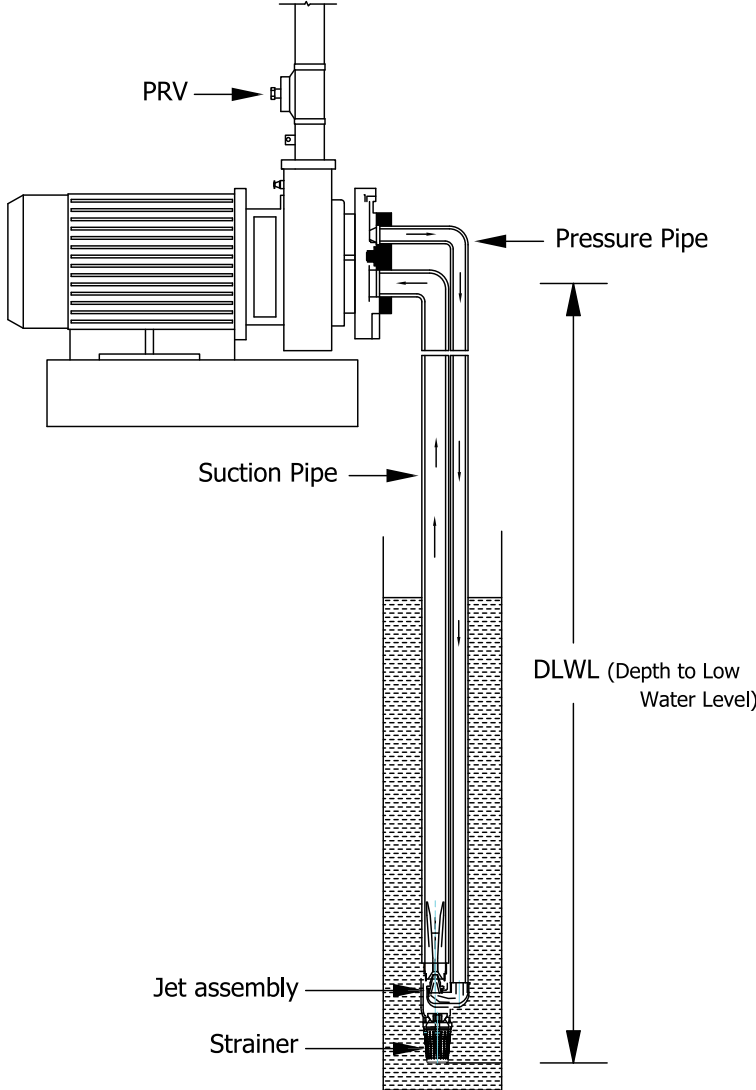
PERFORMANCE DETAILS

Models	Power		Pipe size (cm)	DLWL in metre Vs Discharge in LPH												
	HP	kW	Suc X Pre X Del	m	6	9	12	15	18	21	24	27	30	33	36	39
NEON-JF 80	1.0	0.75	4.0x3.2x2.5	LPH	*	1600	1520	1400	1325	1250	1200					
NEON-JF100BWP	1.0	0.75	3.2x2.5x2.5		*	1150	1025	975	925	825	750	600	500			
NEON-JF150BW	1.0	0.75	3.2x2.5x2.5		*	*	*	*	1100	1075	1050	1025	975	900	850	725

Jet Pump Installation



Packer Jet



Jet Pump Installation

Precautions to use Jet Centrifugal Pumps !

- Suitably cover the pump set for getting protected against bad weather.
- Use standard and proper size cable for electrical connection.
- Cable joint should be intact and as per Instruction manual.
- If seems as if stuck, do electrically isolate the pump set first and then rotate it manually for any stuck. If not, then restart it.
- Periodically regulate the pressure regulating valve to get maximum discharge under varying DLWL.
- Select a pump that is best suited for the DLWL requirements as per field conditions and capability to deliver the required volume of water. Wrong selection may cause lower efficiency and more power consumption.
- Never use high head pumps for low head applications. If used, it may cause over heating and lead to winding burning of motor.
- All pipe joints must be leak proof. It is advisable to use GI/PVC pipes with ISI mark.



Openwell Submersible Pumps

Priming free, Vibration free, Noise free.

For clear, cold* water free from abrasive & chemically aggressive particles to satisfy the needs of household water supply, drip irrigation, gardens, water fountains, water sprinkling and light/medium industrial applications.

*Max. liquid temperature 45°C

Cast Iron/SS Motor body*

Provides protection against structural failures due to corrosion.

Cast Iron impeller*

Ensures constructional ruggedness, for long lasting consistent performance.

(*Noryl Impeller in Nova, VOSK & VOSV series)

Triple layered poly wrapped copper wires

For better insulation protection and durability.

Superior quality electrical stampings

Ascertain highly efficient motor.

SS410 motor shaft

Offers rust free, stuck free persistent operation.

LTB Bush bearings

Marine class water lubricated bush bearings for smooth & silent functioning.

Marine grade electrical joints

Improves insulation protection and prevents unwanted energy losses.

Operating/Technical specifications

Input supply: 1ΦAC, 180-240V*, 50Hz
(*Voltage required at motor input terminal)

Power range: 0.37 – 2.2kW (0.5 to 3HP)

Head range: Up to 91m

Flow range: 28000 - 1300LPH

Rated Speed: 2800rpm

Type of duty: S1 (Continuous)

Insulation class: B

Rotation: Counter clockwise, when viewed from pump side

Water Cooled Horizontal Openwell Submersible Pumps VOS, VOSS & VOSR Series

Speciality

- Rust preventive SS Body with matt finish in VOSS series.
- Rigid built cast iron body in VOS series except for 0.5HP variants.
- High quality stainless steel hardware.
- Energy efficient motor.
- BEE 5 star rated & ISI Models available.
- Prolonged motor life.
- Special voltage (250-450V) models also available*
[*Applicable for VOSS 2-TW100].
- 24 months service warranty.
- Available up to 3HP.



VOSS-F90



VOS-FH110



VOSR-F90

Accessories



Control Panel

PERFORMANCE DETAILS

Models	Power		Pipe size (cm)	Total head in metre Vs Discharge in LPH															Star Rating
	HP	kW	Suction X Delivery	m	6	9	12	15	18	21	24	27	30	33	36	39	42	45	
V0S-F90#	1.0	0.75	3.2 x 2.5	LPH	*	*	10100	9500	7500	5300	3600	3450							5 Star
VOSS-F90#	1.0	0.75	3.2 x 2.5		*	*	10100	9500	7500	5300	3600	3450							5 Star
V0SR-F90#	1.0	0.75	3.2 x 2.5		*	*	9200	8300	6900	4500	2800	2400							5 Star
VOSS-FH80	1.5	1.1	4.0 x 4.0		*	*	13000	12000	11000	9000	8000								3 Star
VOS-FH110	1.5	1.1	3.2 x 2.5		*	*	*	9700	9100	8600	8000	7200	6300	4500					
VOSS-FH110	1.5	1.1	3.2 x 2.5		*	*	*	9700	9100	8600	8000	7200	6300	4500					
VOS-FH150	1.5	1.1	2.5 x 2.5		*	*	*	*	*	*	*	7200	6800	6300	5300	4500	3200	1300	
VOSS-FH150	1.5	1.1	2.5 x 2.5		*	*	*	*	*	*	*	7200	6800	6300	5300	4500	3200	1300	
V0SS-TW100	2.0	1.5	5.0 x 5.0		*	*	*	14500	13000	12000	10500	9000	7500						
VOSS-TR100	3.0	2.2	5.0 x 5.0		*	*	*	28000	26000	24000	21000	15000	6500						
*Denotes overloading region • Except V0SS-FH110 & V0SS-FH150. # 24 Months Warranty																			

*Denotes overloading region • Except VOSS-FH110 & VOSS-FH150. # 24 Months Warranty

REVO Series

- Speciality
- Reliable motor construction.
 - Rust preventive SS Body with matt finish.
 - Stainless steel hardwares.
 - Available up to 2 HP.
 - BEE 5 star rated & ISI models available
 - Cast iron* impeller models available for smooth & silent operation.
- [*Except for REVO-OSSH60 with Noryl impeller]



REVO-OSSH60



REVO-OSSFH130



REVO-OSSF110

Accessories



Control Panel

PERFORMANCE DETAILS

Models	Power		Pipe size (cm)	Total head in metre Vs Discharge in LPH													Star Rating
	HP	kW	Suction X Delivery	m	6	9	12	15	18	21	24	27	30	33	36	38	
REVO-OSSH60	0.5	0.37	2.5 x 2.5	LPH	9000	8100	7000	4300									4 Star
REVO-OSSF110	1.0	0.75	3.2 x 2.5		*	*	*	*	8600	8000	7000	6000	4500	3000			
REVO-OSSFH130	1.5	1.1	3.2 x 2.5		*	*	*	*	*	6400	6000	5600	4800	4200	3300	2500	
REVO-OSSTW100	2.0	1.5	5.0 x 5.0		*	*		18000	17250	16250	14750	12500	9150	8000@28m			

*Denotes overloading region

NOVA, VOSW & VOSK Series

- Speciality
- Pressure regulating diaphragm
 - Rust preventive SS Body with matt finish
 - Noryl impellers for smooth & silent operation
 - Stainless steel hardwares



NOVA-OSSH60



NOVA-OSSF80



VOSK-F90 GRAND

Accessories



Control Panel

PERFORMANCE DETAILS

Models	Power		Pipe size (cm)	Total head in metre Vs Discharge in LPH								Star Rating
	HP	kW	Suction X Delivery	m	6	9	12	15	18	21	24	
NOVA-OSSH60	0.5	0.37	2.5 x 2.5	LPH	9000	8100	7000	4300				4 Star
NOVA-OSSF80	1.0	0.75	2.5 x 2.5		9000	8500	7800	7300	6300	5500	4500	5 Star

Models	Power		Pipe size (cm)	Total head in metre Vs Discharge in LPH										Star Rating
	HP	kW	Suction X Delivery	m	6	9	12	15	18	21	24	27	30	
VOSK-H60	0.5	0.37	2.5 x 2.5	LPH	9000	8100	7000	4300						4 Star
VOSK-F90	1.0	0.75	2.5 x 2.5		*	*	10000	9000	8000	6500	4200	2000		5 Star
VOSK-F110	1.0	0.75	2.5 x 2.5		*	*	*	9500	8500	7000	5000	3000	900	5 Star

*Denotes overloading region

Models	Power		Pipe size (cm)	Total head in metre Vs Discharge in LPH									
	HP	kW	Suction X Delivery	m	6	9	12	15	18	21	24	27	30
VOSK-H60 GRAND	0.5	0.37	2.5 x 2.5	LPH	9000	8100	7000	4300					
VOSK-F90 GRAND	1.0	0.75	2.5 x 2.5		*	*	10000	9000	8000	6500	4200	2000	
VOSK-F110 GRAND	1.0	0.75	2.5 x 2.5		*	*	*	9500	8500	7000	5000	3000	1000

*Denotes overloading region

Water Cooled Vertical/ Horizontal Openwell Submersible Pumps VOSSM & VOSV Series

Speciality

- Suitable for both Openwell & 10 cm/150 cm borewell applications (Model for 10 cm borewell-VOSV-F140).
- Rust preventive SS Body with matt finish.
- Noryl impeller and diffuser for smooth & silent operation.
- Stainless steel hardwares.
- 3 metre 3 core cable.
- Available up to 1.5HP.



VOSSM



VOSV-F140

Accessories



Control Panel

PERFORMANCE DETAILS

Models	Power		Pipe size (cm)	Delivery	Total head in metre Vs Discharge in LPH													
	HP	kW			m	18	24	30	36	42	45	48	54	60	66	72	75	84
VOSSM-1005	1.0	0.75	3.2	1.5		4000	3300	2700	1500									
VOSSM-1007	1.0	0.75	3.2			*	*	4000	3300	2700	1500							
VOSSM-1012	1.0	0.75	3.2			*	*	*	*	*	4000	3800	3500	3250	3000	2400	1500	
VOSSM-1515	1.5	1.1	3.2			*	*	*	*	*	*	*	4000	3800	3600	3400	3250	2700
VOSV-F140	1.0	0.75	2.5			4300	3900	3400	2600	1500								

*Denotes overloading region

Precautions to use Openwell Submersible Pumps !

- Fill the motor with enough clear, cold drinking water before installation.
- Use standard and proper size cable for connection.
- Cable joint should be intact and as per Instruction manual.
- Electrical connections are to be made as per circuit diagrams given in instruction manual/capacitor box.
- Do not operate the pump set without minimum submergence of 1.5m.



Borewell Submersible Pumps

Priming free, Efficient and Tranquil.

For clear, cold* water free from abrasive & chemically aggressive particles to satisfy the needs of household water supply, agricultural applications, multi-storied buildings and light/medium industrial applications.

*Max. liquid temperature 45°C

SS Motor body

Provides protection against structural failures due to corrosion.

Noryl Bowl sets

Impellers & diffusers maintain the dimensional stability for consistent performance.

Triple layered copper*/99.99% super enamelled# copper wires

For better insulation protection and durability.

Superior quality electrical stamping

Ascertain highly efficient motor.

Stainless steel motor shaft

Offers rust free, stuck free persistent operation.

LTB Bush bearings*/double sealed ball bearings# with life lubrication

Marine class water lubricated bush bearings for smooth & silent functioning.

Marine grade electrical joints

Improves insulation protection and prevents unwanted energy losses.

*For water cooled models # For oil cooled models

Operating/Technical specifications

Input supply: 1ΦAC, 180-240V*, 50Hz
[*Voltage required at motor input terminal]

Power range: 0.37 – 2.2kW (0.5 to 3HP)

Head range: Up to 240m

Flow range: 21600 - 600 LPH

Rated Speed: 2800rpm

Type of duty: S1 (Continuous)

Insulation class: B

Rotation: Counter clockwise, when viewed from top side



V3 Borewell Submersible Pumps
VBS3AM / VBSN3AM / REVO3 Series - Water Cooled

Speciality

- Premium quality pump sets with 72/75 mm Pump OD.
- Rust preventive SS Body with matt finish.
- Rigid built cast iron housing parts.
- Graded cast iron components with CED-COATING for corrosion resistance in REVO3 series
- SS Shaft with dynamically balanced copper rotor / Aluminium rotor* [*VBSN3AM, REVO3 Models].
- Energy efficient motor.
- Stainless steel hardwares.
- Water lubricated SS thrust bearing and LTB bush bearings for motor.
- Wide voltage band 180-240v.
- Poly wrapped winding wire with Least leakage.
- Hylum pad prevents initial stuck possibilities.
- Non return valve to avoid return flow and sand accumulation in pump.
- Rubber diaphragm balances the pressure fluctuations.

Accessories



Control Panel

Control Panel (For VBS3AM, VBSN3AM, REVO3, Series only), Cable joining kit, Nylon strainer, Cable guard.



PERFORMANCE DETAILS

Models	Power		Pipe size (cm)	Total head in metre Vs Discharge in LPH/LPM											
	HP	kW		LPM	60	50	45	40	35	30	25	20	15	10	0
				LPH	3600	3000	2700	2400	2100	1800	1500	1200	900	600	0
VBS3AM-F250/20	1.0	0.75	3.2	Head in Metre	23	37	43	48	53	58	62	66	70	73	78
VBS3AM-FH325/20	1.5	1.1	3.2		55	64	68	71	74	77	81	85	90	95	100
VBS3AM-FH400/30	1.5	1.1	3.2		25	47	56	65	72	80	90	100	107	115	123
Models	Power		Pipe size (cm)	Total head in metre Vs Discharge in LPH/LPM											
	HP	kW		LPM	60	50	45	40	35	30	25	20	15	10	0
				LPH	3600	3000	2700	2400	2100	1800	1500	1200	900	600	0
VBSN3AM-F120/12*	1.0	0.75	3.2	Head in Metre	25	31	34	36	38	40	42	44	45	47	50
VBSN3AM-F130/10	1.0	0.75	3.2		25	29	32	35	37	39	41	43	44	45	50
VBSN3AM-F170/13	1.0	0.75	2.5		33	40	44	47	49	51	53	55	57	59	65
VBSN3AM-F250/20	1.0	0.75	3.2		23	37	43	48	53	58	62	66	70	73	78
Models	Power		Pipe size (cm)	Total head in metre Vs Discharge in LPH/LPM											
	HP	kW		LPM	60	50	45	40	35	30	25	20	15	10	0
				LPH	3600	3000	2700	2400	2100	1800	1500	1200	900	600	0
REV03 T1010AP-CJ*	1.0	0.75	3.2	Head in Metre	21	26	28	30	32	33	35	37	38	39	42
REV03 T1010AP-RG	1.0	0.75	3.2		25	29	32	35	37	39	41	43	44	45	50
REV03 T1012AP-CJ*	1.0	0.75	3.2		25	31	34	36	38	40	42	44	45	47	50
REV03 T1013AP-RG	1.0	0.75	2.5		33	40	44	47	49	51	53	55	57	59	65
REV03 T1016AP-CH*	1.0	0.75	3.2		29	37	42	45	48	51	54	58	61	64	68
REV03 T1020AP-CD	1.0	0.75	3.2		23	37	43	48	53	58	62	66	70	73	78
* Outer diameter of the pump is 72 mm															

3” Borewell Submersible Pumps
NOVA 03T / 02.5T SERIES - Oil Cooled

Speciality

- Premium quality pump sets with 66/75 mm Pump OD.
- SS body and shaft for both pump and motor
- Food grade paraffin oil filled
- Dynamically balanced rotor
- Anti-friction ball bearings with lifelong lubrication
- 99.99% pure super enamelled copper wire
- Rubber diaphragm balances the pressure fluctuations
- Non return valve to avoid return flow and sand accumulation in pump.

PERFORMANCE DETAILS

Models	Power		Pipe size (cm)	Total head in metre Vs Discharge in LPH/LPM									
	HP	kW		LPM	90	80	70	60	50	40	30	20	0
				LPH	5400	4800	4200	3600	3000	2400	1800	1200	0
NOVA - 03TAM0112	1.0	0.75	3.2	Head in Metre	15	25	32	37	42	45	47	48	49
NOVA - 03TAM1524	1.5	1.1	3.2		31	51	63	75	84	89	93	97	99

Models	Power		Pipe size (cm)	Total head in metre Vs Discharge in LPH/LPM												
	HP	kW		LPM	40	50	45	40	35	30	25	20	15	10	5	0
				LPH	3600	3000	2700	2400	2100	1800	1500	1200	900	600	300	0
NOVA - 03TAM1526	1.5	1.1	3.2	Head in Metre	13	44	57	69	77	83	87	90	93	95	97	100
NOVA - 03TAM1531	1.5	1.1	3.2		16	52	68	82	91	99	104	107	111	114	116	119

Models	Power		Pipe size (cm)	Total head in metre Vs Discharge in LPH/LPM									
				LPM	40	35	30	25	20	15	10	5	0
	HP	kW		LPH	2400	2100	1800	1500	1200	900	600	300	0
NOVA-02.5TAM0524**	0.5	0.37	2.5	Head in Metre	12	26	36	43	50	54	58	62	66
*Outer diameter of the pump is 66 mm * Without control panel model also available													

Accessories



Control Panel



Slim V4 Borewell Submersible Pumps
VBS4SAM & NOVA 4T Series - Water Cooled

Speciality

- SS body for both pump and motor.
- Rigid built cast iron housing parts.
- SS Shaft with dynamically balanced rotor.
- Energy efficient motor.
- Stainless steel hardwares.
- Water lubricated SS thrust bearing and LTB bush bearings for motor.
- Wide voltage band 180-240v.
- Poly wrapped winding wire with Least leakage.
- Non return valve to avoid return flow and sand accumulation in pump.
- Rubber diaphragm balances the pressure fluctuations.

Accessories



Control Panel

Control Panel, Cable joining kit, Nylon strainer, Cable guard.



PERFORMANCE DETAILS

Models	Power		Pipe size (cm)	Total head in metre Vs Discharge in LPH/LPM													
				LPM	70	65	60	50	45	40	35	30	25	20	15	10	0
	HP	kW		LPH	4200	3900	3600	3000	2700	2400	2100	1800	1500	1200	900	600	0
VBS4SAM-F180/15	1.0	0.75	2.5	Head in Metre			25	35	39	45	47	50	53	56	59	61	65
NOVA-4T0235	2.0	1.5	2.5		37	54	65	89	100	115	122	128	134	138	142	147	153
NOVA-4T0240	2.0	1.5	2.5			23	40	80	92	102	120	133	140	148	155	160	167

Models	Power		Pipe size (cm)	Total head in metre Vs Discharge in LPH/LPM													
				LPM	95	75	70	65	60	55	50	40	35	30	25	10	0
	HP	kW		LPH	5700	4500	4200	3900	3600	3300	3000	2400	2100	1800	1500	600	0
NOVA-4T0225	2.0	1.5	3.2	Head in Metre	28	65	74	79	83	87	90	97	99	101	103	111	117

V4 Borewell Submersible Pumps
VFILL Series - Water Cooled

Speciality

- Graded cast iron components with CED-COATING for corrosion resistance with uniform coating.
- With CARBON JOURNAL BEARINGS for smooth operations.
- Aluminium rotor model with enhanced low voltage performance.
- Rust preventive SS hardware & body with matte finish.
- SS shaft with dynamically balanced rotor.
- Energy efficient motor.
- Poly wrapped winding wire with least leakage.
- Built-in NRV prevents backflow and sand accumulation in the pump.
- Coming with digital panel box.

Accessories



Control Panel

Control Panel* (For VFILL-P Series only), Cable joining kit, Nylon strainer, Cable guard.



PERFORMANCE DETAILS

Models	Power		Pipe size (cm)	Total head in metre Vs Discharge in LPH/LPM													Star Rating
				LPM	80	70	60	50	45	40	35	30	20	15	0		
	HP	kW		LPH	4800	4200	3600	3000	2700	2400	2100	1800	1200	900	0		
VFILL 1008AP-RC	1.0	0.75	4.0	Head in Metre		26	34	38	41	43	46	47	50	51	55	2 Star	
VFILL 1010AP-RC	1.0	0.75	3.2			33	42	48	51	54	57	59	63	64	68	4 Star	
VFILL 1013AP-RA	1.0	0.75	3.2					33	44	53	61	68	83	90	98	3 Star	
VFILL 1512A-RC	1.5	1.1	3.2		39	50	59	67	71	74	77	79	84	86	90	5 Star	
VFILL 1514AP-RC	1.5	1.1	4.0		47	60	70	79	84	88	91	94	98	100	106	5 Star	
VFILL 1520AP-RA	1.5	1.1	4.0				32	55	67	77	87	98	116	123	145	2 Star	
VFILL 1525AP-RA	1.5	1.1	3.2				40	69	84	96	109	123	145	154	180	2 Star	
VFILL 2019AP-RC	1.5	1.1	3.2		64	81	95	107	114	119	123	127	133	135	143	5 Star	
VFILL 2025AP-RA	1.5	1.1	3.2				40	69	84	96	109	123	145	154	180	2 Star	
VFILL 2030AP-RA	1.5	1.1	3.2					83	101	115	131	147	174	184	216	3 Star	
☞Models are also available without control panel																	

Models	Power		Pipe size (cm)	Total head in metre Vs Discharge in LPH/LPM												Star Rating
				LPM	180	160	140	120	100	90	80	70	60	50	0	
	HP	kW		LPH	10800	9600	8400	7200	6000	5400	4800	4200	3600	3000	0	
VFILL 1008AP-CE	1.0	0.75	4.0	Head in Metre			17	25	32	35	38	41	43	45	51	5 Star
VFILL 1508A-CG	1.5	1.1	4.0		12	22	29	35	40	43	45	47	49	50	56	5 Star
VFILL 1512AP-CE	1.5	1.1	4.0				25	37	49	54	58	62	65	68	77	5 Star
VFILL 2010A-CG	2.0	1.5	5.0		15	28	36	44	50	54	56	59	61	63	70	4 Star
VFILL 2010A-RE	2.0	1.5	5.0					28	41	45	49	53	59	63	75	
VFILL 2015A-CE	2.0	1.5	4.0				32	47	62	68	73	78	82	85	96	5 Star
☐Models are also available without control panel																

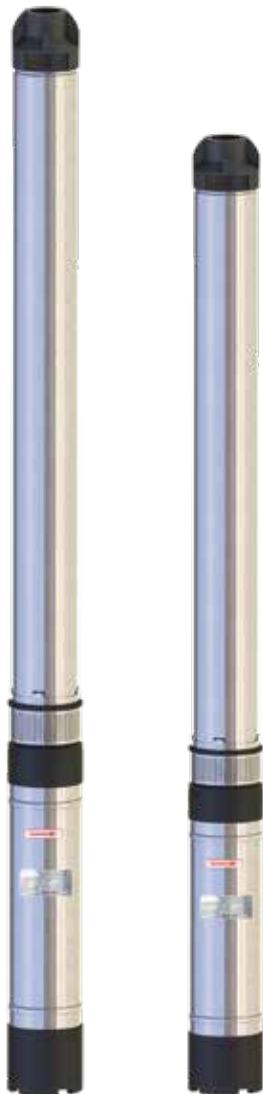
V4 Borewell Submersible Pumps
REVO Series - Water Cooled

Speciality

- Polymer bush bearings with SS pads for smooth operations
- The rubber diaphragm is provided at the bottom of the motor to compensate thermal expansion of water.
- Wear-resistant high-strength engineering polymer impellers and diffusers with stainless steel inserts.
- Graded cast iron components with CED-coating for corrosion resistance with uniform coating, resulting in longer life.
- Wide Voltage operation and with a higher torque percentage.
- SS + carbon Thrust bearing combination.
- Stainless steel Motor Shaft, pump shaft, Motor body & pump body ensures the longer life.
- Poly-wrapped winding wire with the least leakage
- Built-in NRV prevents backflow and sand accumulation in the pump

Accessories

Cable joining kit, Nylon strainer, Cable guard.



PERFORMANCE DETAILS

Models	Power		Pipe size (cm)	Total head in metre Vs Discharge in LPH/LPM												
				LPM	90	80	70	60	50	45	40	35	30	20	15	
	HP	kW		LPH	5400	4800	4200	3600	3000	2700	2400	2100	1800	1200	900	
REVO T0507A-RA	0.5	0.37	3.2	Head in Meter					15	20	26	31	36	42	44	50
REVO T1007A-CD	1.0	0.75	3.2		22	26	30	34	37	38	39	40	41	42	43	45
REVO T1010A-CD	1.0	0.75	3.2		31	37	42	47	51	52	54	55	56	58	59	61
REVO T1512A-RC	1.5	1.1	3.2			39	50	59	67	71	74	77	79	84	86	90
REVO T1514A-RC	1.5	1.1	3.2			46	59	69	78	83	87	90	93	98	100	106
REVO T2015A-CD	2.0	1.5	3.2		45	54	61	69	76	78	80	81	83	86	87	90
REVO T2018A-CD	2.0	1.5	3.2		53	64	73	81	87	89	91	92	94	97	99	103

V4 Borewell Submersible Pumps
VBSR Series - Water Cooled

Speciality

- Rust preventive SS Body with matt finish.
- Rigid built cast iron housing parts.
- Stainless steel hardware.
- SS Shaft with dynamically balanced copper rotor.
- Water lubricated SS thrust bearing and LTB bush bearings for motor.
- Wide voltage band 180 -240v.
- Poly wrapped winding wire with Least leakage.
- Non return valve to avoid return flow and sand accumulation in pump.
- Rubber diaphragm balances the pressure fluctuations.
- Energy efficient motor.

Accessories

Cable joining kit, Nylon strainer, Cable guard.



PERFORMANCE DETAILS

Models	Power		Pipe size (cm)	Total head in metre Vs Discharge in LPH/LPM												Star Rating	
	HP	kW		LPM	120	110	100	90	80	70	60	50	40	30	20		0
				LPH	7200	6600	6000	5400	4800	4200	3600	3000	2400	1800	1200		0
VBSR-TW240/10	2.0	1.5	5.0	Head in Metre	23	29	35	40	45	49	54	58	62	66	68	72	3 Star

Models	Power		Pipe size (cm)	Total head in metre Vs Discharge in LPH/LPM												Star Rating
				LPM	360	330	300	270	240	210	180	150	120	90	0	
	HP	kW		LPH	21600	19800	18000	16200	14400	12600	10800	9000	7200	5400	0	
VBSR-TW90/6 #	2.0	1.5	5.0	Head in Metre	11	13	15	17	18	20	21	22	24	25	29	
VBSR-TR120/8 *#	3.0	2.2	5.0		14	17	20	23	26	28	30	32	34	35	40	
VBSR-TR135/9 *	3.0	2.2	6.5		19	22	25	28	31	33	35	38	40	42	45	3 Star
VBSRJ-TR200/12 *	3.0	2.2	6.5		24	30	35	39	42.5	46	50	54	57	60	65	

#ISI models * Mixed flow models

Models	Power		Pipe size (cm)	Total head in metre Vs Discharge in LPH/LPM												Star Rating
	HP	kW		LPM	180	160	140	120	100	90	80	70	60	50	0	
			LPH	10800	9600	8400	7200	6000	5400	4800	4200	3600	3000	0		
VBSR-TW180/10#	2.0	1.5	5.0	Head in Metre	16	24	34	40	46	49	53	56	58	61	64	3 Star
VBSR-TW300/15 Ⅲ	2.0	1.5	4.0				24	40	56	63	69	75	78	82	92	2 Star
VBSR-TR300/15 Ⅲ	3.0	2.2	5.0		24	40	56	70	80	83	86	89	92	93	100	3 Star
VBSR-TR400/20	3.0	2.2	4.0				35	59	80	90	96	100	104	108	122	



V4 Borewell Submersible Pumps
VBS2 Series - Water Cooled

Speciality

- High discharge mixed / radial flow model.
- Wide voltage band 200-380v.
- Rust preventive SS Body with matt finish.
- Rigid built cast iron housing parts.
- SS Shaft with dynamically balanced copper rotor.
- Energy efficient motor.
- Stainless steel hardware.
- Water lubricated SS thrust bearing and LTB bush bearings for motor.
- Poly wrapped winding wire with Least leakage.
- Rubber diaphragm balances the pressure fluctuations.

Accessories



Control Panel

Cable joining kit, Nylon strainer, Cable guard.



PERFORMANCE DETAILS

Models	Power		Pipe size (cm)	Total head in metre Vs Discharge in LPH/LPM											
				LPM	360	330	300	270	240	210	180	150	120	90	0
	HP	KW		LPH	21600	19800	18000	16200	14400	12600	10800	9000	7200	5400	0
VB52AM-TW90/6#	2.0	1.5	5.0	Head in Metre	11	13	15	17	18	20	21	22	24	25	29
VB52AM-TR135/9#	3.0	2.2	6.5		19	22	25	28	31	33	35	38	40	42	45
#Without panel models also available															

Models	Power		Pipe size (cm)	Total head in metre Vs Discharge in LPH/LPM												
				LPM	200	180	160	140	120	100	90	80	70	60	50	0
	LPH	12000		10800	9600	8400	7200	6000	5400	4800	4200	3600	3000	0		
VBS2-TW180/10	2.0	1.5	5.0	Head in Metre		16	24	34	40	46	49	53	56	58	60	64
VBS2-TR240/12	3.0	2.2	5.0		20	33	42	52	60	67						80
VBS2-TR300/15	3.0	2.2	5.0			24	40	56	70	80	83	86	89	92	93	100

V4 Borewell Submersible Pumps
VBSRAM Series - Water Cooled

Speciality

- SS Shaft with dynamically balanced Copper rotor.
- High operating efficiency.
- Clearance increased bowl sets.
- Corrosion resistant stainless steel body for motor & pump.
- Water lubricated motor with easily rewindable stator.
- Specially designed six segment fixed type SS thrust bearing to withstand high axial load.

Accessories



Control Panel

Control Panel, Cable joining kit, Nylon strainer, Cable guard.



Models	Power		Pipe size (cm)	Total head in metre Vs Discharge in LPH/LPM													Star Rating
				LPM	90	80	70	60	50	45	40	35	30	20	15	0	
	HP	kW		LPH	5400	4800	4200	3600	3000	2700	2400	2100	1800	1200	900	0	
VBSRAM-F220/10	1.0	0.75	3.2	Head in Metre					26	35	40	45	50	60	65	69	4 Star
VBSRAM-F330/15#	1.0	0.75	3.2						24	38	50	59	68	83	90	98	
VBSRAM-FH330/14#	1.5	1.1	3.2			43	56	69	77	82	86	90	94	96	99	103	
VBSRAM-FH440/20	1.5	1.1	3.2						32	50	66	78	90	110	120	134	3 Star
VBSRAM-FH550/25	1.5	1.1	3.2						40	63	83	98	113	138	150	168	4 Star
VBSRAM-TW425/19	2.0	1.5	3.2			58	76	93	105	111	117	122	127	132	135	140	4 Star
VBSRAM-TW525/25	2.0	1.5	3.2						40	63	83	98	113	138	150	163	3 Star
VBSRAM-TW650/30	2.0	1.5	3.2						48	75	99	117	135	165	180	199	2 Star
VBSRAM-TR750/30	3.0	2.2	3.2			90	117	144	165	174	183	191	198	211	217	229	3 Star
VBSRAM-TR800/40	3.0	2.2	3.2						64	100	132	156	180	220	240	260	2 Star
#ISI models																	

Models	Power		Pipe size (cm)	Total head in metre Vs Discharge in LPH/LPM													Star Rating
				LPM	200	180	160	140	120	100	90	80	70	60	50	0	
	HP	kW		LPH	12000	10800	9600	8400	7200	6000	5400	4800	4200	3600	3000	0	
VBSRAM-TW225/13	2.0	1.5	4.0	Head in Metre				22	35	49	55	60	65	68	71	80	5 Star
VBSRAM-TW300/15	2.0	1.5	4.0					24	40	56	63	69	75	78	82	92	4 Star



V4 Borewell Submersible Pumps
NOVA Series – Oil Cooled

Speciality

- Stainless steel Motor Shaft, pump shaft, Motor body & pump body, Upperhousing, bracket ensures the longer life
- Food grade paraffin oil filled
- Dynamically balanced rotor
- Anti-friction ball bearings with lifelong lubrication
- B-Class Electrical insulation
- Wide voltage band (180 -240v) operation
- 99.99% pure super enamelled copper wire
- Non return valve to avoid return flow and sand accumulation in pump
- Rubber diaphragm balances the pressure fluctuations
- Ease of maintenance

Accessories



Control Panel

Control Panel* (For NOVA-OTM / OTAM Series only), Cable joining kit, Nylon strainer, Cable guard.



PERFORMANCE DETAILS

Models	Power		Pipe size (cm)	Total head in metre Vs Discharge in LPH/LPM										
				LPM	55	50	45	40	35	30	25	20	15	0
	HP	kW		LPH	3300	3000	2700	2400	2100	1800	1500	1200	900	0
NOVA-OTAM00507*	0.5	0.37	3.2	Head in Metre	13	21	27	32	36	40	43	45	46	48
NOVA-OTAM0115*	1.0	0.75	3.2		48	58	68	78	82	90	96	100	103	106
NOVA-OTAM1520*	1.5	1.1	3.2			60	78	93	105	115	124	134	137	140
NOVA-OTAM0228	2.0	1.5	3.2		90	110	127	145	158	168	180	187	193	197

*Models are also available without control panel

Models	Power		Pipe size (cm)	Total head in metre Vs Discharge in LPH/LPM											
				LPM	140	120	100	90	80	70	60	50	40	30	20
	HP	kW		LPH	8400	7200	6000	5400	4800	4200	3600	3000	2400	1800	1200
NOVA-OTAM0108*	1.0	0.75	3.2	Head in Metre			13	21	28	36	41	46	51	53	54
NOVA-OTAM0110*	1.0	0.75	3.2						15	29	40	50	58	64	72
NOVA-OT1512	1.5	1.1	3.2					39	49	58	66	73	78	81	82
NOVA-OT1508	1.5	1.1	4.0		19	29	37	40	44	46	48	49	51	52	54
NOVA-OTAM1515*	1.5	1.1	3.2						22	43	61	76	88	96	102
NOVA-OT0216	2.0	1.5	4.0		32	55	70	77	84	89	93	96	99	101	103
NOVA-OTAM0320	3.0	2.2	3.2		39	68	90	100	109	116	121	126	129	132	135

*Models are also available without control panel

Precautions to use Borewell Submersible Pumps !

- Fill the motor with enough clear, cold drinking water (except oil cooled series) before installation.
- Use standard and proper size cable for connection.
- Cable joint should be intact and as per Instruction manual.
- Electrical connections are to be made as per circuit diagrams given in instruction manual/capacitor box.
- Do not operate the pump set without water under any circumstance, as this will cause damage to the motor.



Borewell Compressor Pump
For Lifting Water with Air Distributor Pipe

Robust, Long lasting and Efficient.

For clear, cold* water free from abrasive & chemically aggressive particles to satisfy the needs of water lifting from borewells having fewer yields, muddy water and at places where tube well pumps are not suitable.

*Max. liquid temperature 45°C

Cast Iron Motor body

Ensures constructional ruggedness for long lasting consistent performance.

Superior quality electrical stamping

Ascertain highly efficient motor.

Special steel alloy motor shaft

Offers rust free, stuck free persistent operation.

Splash lubrication

It reduces frictional damages in machine elements.

Special Cast iron Cylinder

Deep finned for quick heat dissipation.

Aluminium alloy Piston

Automotive low expansion type.

Special Steel alloy Valve Plate

For high resistance, high efficiency and for self-floating.

Operating/Technical specifications

Input supply: 1ΦAC, 180-240V*, 50Hz
[*Voltage required at motor input terminal]

Power range: 0.75 – 1.5kW (1HP to 2HP)

Maximum Head: 180m.

Type of duty: S1 (Continuous)

Insulation class: B

Rotation: Clockwise, when viewed from motor side



Monobloc Compressor Pumps

Speciality

- Compact design.
- Less maintenance required.
- Head range up to 120m.
- Available 1HP to 1.5HP.
- 12 months warranty.

Accessories

Air distributor.



VMC-FH400

PERFORMANCE DETAILS

			VMC-F300	VMC-F400	VMC-FH400
Capacity (HP/kW)			1.0/0.75	1.0/0.75	1.5/1.1
Water pipe size (cm)			2.5	2.5	2.5
Air pipe Size (cm)			1.2	1.2	1.2
Operatng Pressure (kg/cm2)			7	9	9
Speed in RPM			1440	1440	1440
Weight (kg)			40	43.5	45
Total Head (m)	Pumping Height (m)	Lifting Height (m)	Discharge in LPH		
30	5	25	1400	1525	1725
30	15	15	1800	2000	2200
30	25	5	3900	4200	4200
61	15	45	1100	1250	1450
61	30	30	1225	1350	1550
61	45	15	2600	3000	3000
91	25	70	900	1100	1200
91	45	45	1050	1300	1300
91	70	25	2300	2600	2700
122	30	90		900	1050
122	60	60		1200	1250
122	90	30		2500	2600

Belt Driven Compressor Pumps

Speciality

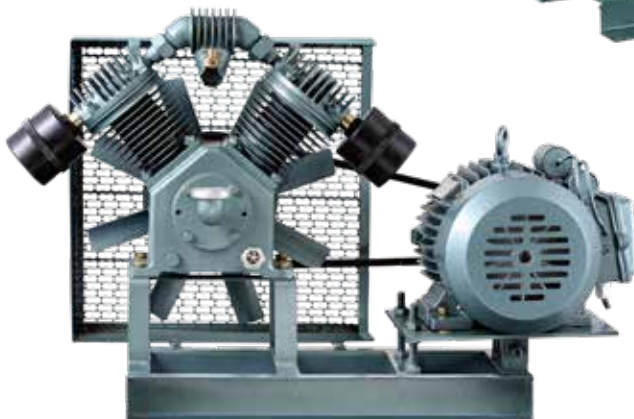
- Available in two types - Twin stage & Single stage.
- Lower operation temperature.
- Vibration absorption.
- 12 months warranty.
- Available 1.0 HP to 2 HP.
- Head range upto 180m.

Accessories

Belt, hardwares/fasteners.



VBCM-F400



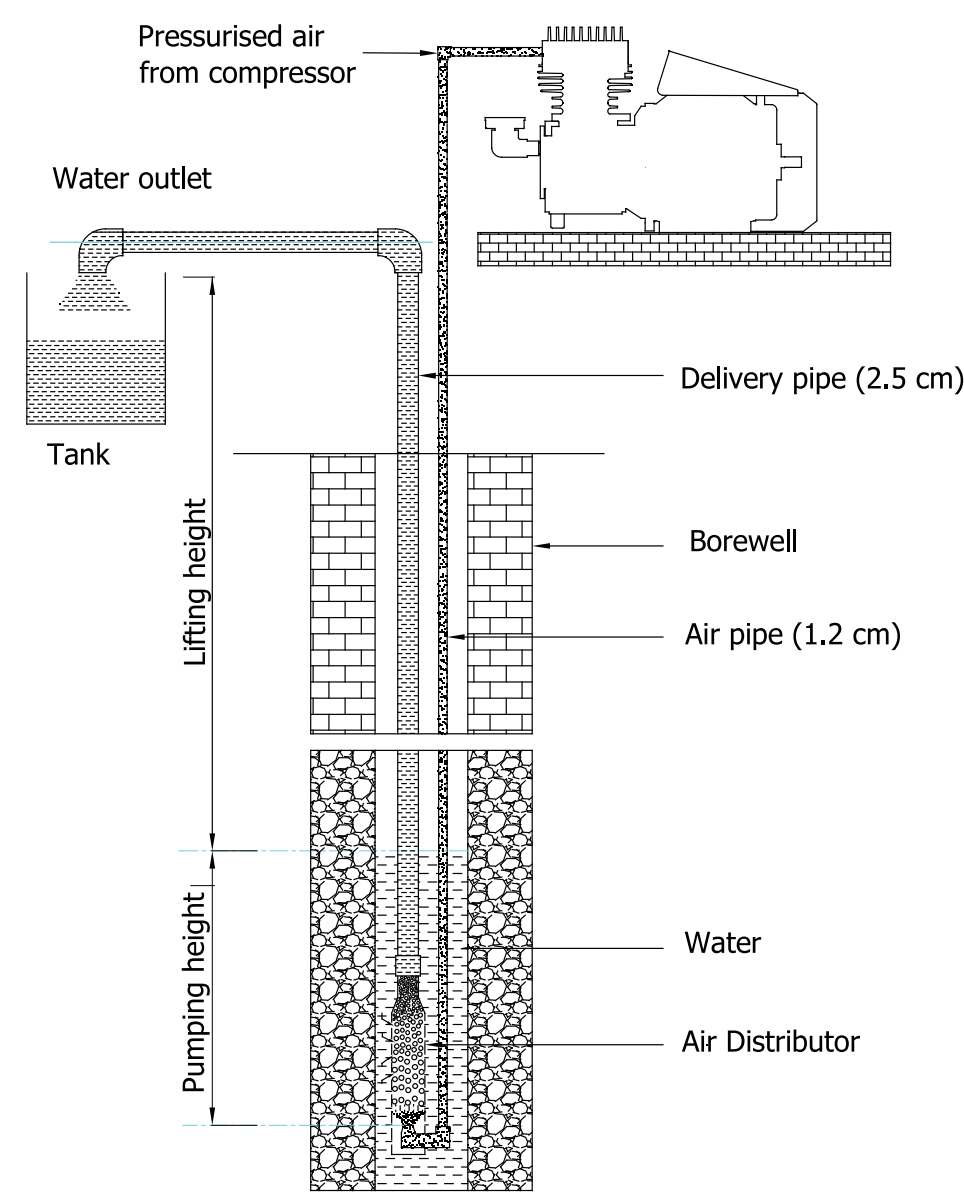
VBCDM-TW600

PERFORMANCE DETAILS

			VBCM-F400	VBCM-FH400	VBCDM-TW600
Capacity (HP/kW)			1.0/0.75	1.5/1.1	2/1.5
Water pipe size (cm)			2.5	2.5	2.5
Air pipe Size (cm)			1.2	1.2	1.2
Operating Pressure (kg/cm²)			7	7	13
Speed in RPM			1200	900	580
Weight (kg)			29	30	45
Belt			A 38	A 38	B 48
Total Head (m)	Pumping Height (m)	Lifting Height (m)	Discharge in LPH		
30	5	25	1500	1700	2300
30	15	15	1800	2000	3500
30	25	5	4000	4000	7200
61	15	45	1100	1300	1900
61	30	30	1200	1400	2500
61	45	15	2800	2800	6000
91	25	70	900	1000	1650
91	45	45	1100	1100	2000
91	70	25	2400	2500	5000
122	30	90	800	950	1300
122	60	60	950	1000	2000
122	90	30	2300	2400	4500
152	30	120			900
152	75	75			1100
152	120	30			4000
183	60	120			700
183	90	90			1000
183	120	60			3500



Compressor Pump Installation



Precautions to use Borewell Compressor Pump For Lifting Water with Air Distributor Pipe !

- Cable joint should be intact and as per Instruction manual.
- Use standard and proper size cable for connection.
- Pump should be installed in a well-ventilated area and kept away from sunlight and rainfall.
- Motor must be connected to the power supply only through a motor starter; if the starter is tripped at the time of starting, unscrew the air relief valve fitted on the outlet nipple (on delivery side) and allow the air inside the cylinder to escape. Then close the valve and start the compressor.
- Ensure the direction of the fan should be same as the direction indicated on compressor pulley. Clean air filter once in a week. Use GI pipe as air pipe for 4.5 to 6 metre from the outlet, because air coming from the compressor is too hot to damage PVC pipe (if used).
- Check the oil level in the crank case daily (oil level should be within the circle marked on the oil level indicator), ensure that sufficient quantity of oil is present.
- The oil (SAE 40) in the pump has to be removed after 150 hours of working after installation. Then it is required to change the oil for every 500 hours of working.



Sewage Pumps

Robust, Long lasting and Efficient.

The sewage pumps are specifically designed for pumping domestic sewage and effluent liquids with a pH value of 6.5 - 8.5. These pumps are designed for fully submerged continuous operation.

*Max. liquid temperature 40°C

CSCR Induction motors as prime mover.

Provides constant speed and better torque.

The dual silicon carbide mechanical seal system and extra oil seal protection

Protects the motor from sewage contamination, to provide you exceptionally long pump service life. Contributes leak free operation.

Equipped with auto reset motor protector

Prevents the motor damage from abnormal heat and current.

99.99% ; Super enameled copper windings

Constitutes efficient and long-lasting motor.

Stainless shaft and fasteners

For enhanced life.

Rugged cast iron pump housing, impeller and motor casing

Long life of operation even with rough condition of usages.

Operating/Technical specifications

Input supply: 1ΦAC, 180-240V*, 50Hz
[*Voltage required at motor input terminal]

Power range: 0.75 - 1.5kW (1HP to 2HP)

Flow range: 3700 - 6000

Rated Speed: 2800

Type of duty: S1 (Continuous)

Insulation class: B

Rotation: Clockwise, when viewed from motor side



Sewage Pumps

Speciality

- Dry type submersible induction motor (For submersible models)
- Shaft and fasteners are in stainless steel to enhance life
- Impeller and casing are coated with chemical resistance coating to improve life and performance
- Solid handling size upto 20 mm
- Cable connectors filled with resin to prevent water leakage into the motor through the cable wire
- Dual mechanical seal prevents water entry into the dry motor portion at two interfaces, one at pump portion to oil chamber and another at oil chamber to dry motor portion
- Compact in construction
- High Efficiency
- Long Durability



VSW5-F25US



VSW5-FH45US



VSW5-TW55US

PERFORMANCE DETAILS 1PH MODELS

Models	Power		Pipe size (cm)	Total head in metre Vs Discharge in LPH					
	HP	kW	Delivery	m	3	6	9	12	15
VSW5-F25US	1.0	0.75	5.0	LPH	24800	19000	7500		
VSW5R-F40US	1.0	0.75	5.0		20700	16000	12300	7000	
VSW5-FH45US	1.5	1.1	5.0		26000	20500	14000	6000	
VSW5-TW55US	2.0	1.5	5.0		*	30000	25200	20000	12000

Models	Power		Pipe size (cm)	Total head in metre Vs Discharge in LPH					
	HP	kW	Delivery	m	3	6	9	12	15
VSW5-F50 CT	1.0	0.75	5.0	LPH	16200	14300	12100	10000	6300

Models	Power		Pipe size (cm)	Total head in metre Vs Discharge in LPH					
	HP	kW	Delivery	m	3	5	7	8	9
VDWS-H20US	0.5	0.37	3.2	LPH	9300	6700	3600		
VDWS-F25P	1.0	0.75	4.0		8500	6500	4200	3100	

SELF PRIMING SEWAGE MODEL

Models	Power		Pipe size (cm)		Total head in metre Vs Discharge in LPH					
	HP	kW	Suction	Delivery	m	6	9	12	14.5	16
VSWM-F50	1.0	0.75	4.0	4.0	LPH	15800	12900	7900	3000	

3PH MODELS

Models	Power		Pipe size (cm)	Total head in metre Vs Discharge in LPH					
	HP	kW	Delivery	m	3	6	9	12	15
VSWST-F25US	1.0	0.75	5.0	LPH	24800	19000	7500		
VSWST-FH45US	1.5	1.1	5.0		26000	20500	14000	6000	
VSWST-TW55US	2.0	1.5	5.0		*	30000	25200	20000	12000
*Overloading region									



VDWS-F25P

Precautions to use Sewage Pumps !

- The pumping medium temperature must not exceed 40 degree Celsius
- PH range of medium between 6.5-8.5
- Ensure proper earthing to avoid electrical risks
- The depth of water must be less than 5 meters, more than 0.5 meters (Applicable for submersible models)
- The pump must not be operated in dry condition
- The allowable particle size is upto 20 mm for VSW5 series & 10 mm for VDWS series



Pressure Wash Pumps

Smooth, Silent and Efficient.

The pressure wash pumps are specially designed for high pressure cleaning solution with less consumption of water.

*Max. liquid temperature 40°C

Powered by copper wound induction motor*.

Constitutes efficient and long-lasting motor.

Equipped with auto reset motor protector

Prevents the motor damage from abnormal heat and current.

Highly durable steel reinforced hoses

For enhanced life even in rough condition.

Dual filter system for enhanced water filtration.

Protect's the pump from sewage contamination, to provide you

*(Used universal motor).



Pressure Wash Pumps

Speciality

- Automatic operation
- Consume less water for cleaning.
- Powerful and versatile.
- Added accessories for special application.
- Low operational noise.
- Highly durable reinforced hoses.
- Powered by copper wound motor with F class insulation*.
- Extreme pressure and vacuum# for effective cleaning.

*Except Hybrid model. # In selected model.

Technical Specifications



Model	Hyper Wash-1590
Voltage/Freq.	200V-240V/50Hz
Motor Type	Induction Motor
Working Pressure	90bar
Max. Pressure	135bar
Flow max.	6.0 L/min
Power	1500 Watts
Power Cable Length	5 Meter
Hose Length	5 Meter
Handle	Yes
Soap Tank	Yes
Wheels	No
Gross Weight	14.5 Kg



Model	Hyper Wash-18110
Voltage/Freq.	200V-240V/50Hz
Motor Type	Induction Motor
Working Pressure	110bar
Max. Pressure	140bar
Flow max.	7.0 L/min
Power	1800w
Power Cable Length	5 Meter
Hose Length	5 Meter
Handle	Yes
Soap Tank	Yes
Wheels	Yes
Gross Weight	18.5 Kg



Model	Hyper Wash-1690B
Voltage/Freq.	200V-240V/50Hz
Motor Type	Carbon Brush Motor
Working Pressure	90 bar
Max. Pressure	140bar
Flow max.	6.0 L/min
Power	1600w
Power Cable Length	5 Meter
Hose Length	5 Meter
Handle	Yes
Soap Tank	Yes
Wheels	No
Gross Weight	6 Kg

Precautions to use Pressure Wash Pumps !

- The pumping medium temperature must not exceed 40 degree Celsius.
- Ensure proper earthing to avoid electrical risks.
- Do not operate the pump set without water under any circumstance, as this will cause damage to the pump.
- All accessories / pipe joints must be leak proof.
- Use standard and proper size cable for connection.
- Recommended for domestic use only.



Pump Control Panels

Speciality

- Powder coated MS enclosure for complete corrosion resistance ⁽¹⁾
- High quality virgin Acrylonitrile Butadiene Styrene (ABS) used ⁽²⁾
- Fitted with premium quality Miniature Circuit Breaker for rapid overload & short circuit protection
- Fitted with Heavy Duty Start & Run Capacitors
- Designed for easy & quick mounting
- Pleasing aesthetic look
- Premium panels with superior quality voltmeter & ammeters ⁽³⁾
- Premium panels with high quality AC contactors with rugged design ⁽³⁾
- Provided with pushbutton for voltmeter for enhanced life
- Fitted with premium quality connectors & wire joints.



Openwell									
Sl.No	Panel Code	Running	Starting	MCB (A)	Contactar (A)	Ammeter	Voltmeter	Panel material	Panel Type
1	N055-H60 (OW Panel 25µF)	25	Nil	6	Nil	Nil	Nil	ABS	Regular
2	O5-H60 (OW Panel 36µF)	36	Nil	6	Nil	Nil	Nil	ABS	Regular
3	OSK-H60 GRAND (OW Panel 36µF)	36	Nil	6	Nil	Nil	Nil	ABS	Regular
4	O5-F90 (OW Panel 30, 40/60µF)	30	40/60	10	Nil	Nil	Nil	Metal	Regular
5	O55-F90 (OW Panel 45µF)	45	Nil	10	Nil	Nil	Nil	ABS	Regular
6	O5-RF90 (OW Panel 36µF)	36	Nil	10	Nil	Nil	Nil	ABS	Regular
7	OSK-F90 GRAND (OW Panel 50µF)	50	Nil	10	Nil	Nil	Nil	ABS	Regular
8	O55-F110 (OW Panel 45µF)	45	Nil	16	Nil	Nil	Nil	ABS	Regular
9	OSK-F110 (OW Panel 50µF)	50	Nil	10A	Nil	Nil	Nil	ABS	Regular
10	OSK-F110 GRAND (OW Panel 50µF)	50	Nil	10	Nil	Nil	Nil	ABS	Regular
11	O5-FH150 (OW Panel 75, 60/80µF)	75	60/80	16	Nil	Nil	Nil	Metal	Regular
12	O55-TW100 (OW Panel 60, 100/120µF)	60	100/120	16	Nil	Nil	Nil	Metal	Regular
13	O5V-FH300 (OW Panel 60, 40/60µF)	60	40/60	10A	Nil	Nil	Nil	Metal	Regular
14	O5V-F120 (OW Panel 36, 40/60µF)	36	40/60	10A	Nil	Nil	Nil	Metal	Regular
15	O5V-F150 (OW Panel 50, 40/60µF)	50	40/60	10A	Nil	Nil	Nil	Metal	Regular
16	O55-FH130 (OW Panel 90, 60/80µF)	90	60/80	16A	Nil	Nil	Nil	Metal	Regular

Tubewell									
Sl.No	Panel Code	Running	Starting	MCB (A)	Contactar (A)	Ammeter	Voltmeter	Panel material	Panel Type
1	3BAM-1012 (BW Panel 50, 100/120µF)	50	100/120	10	12	(0-30A)	(0-300V)	Metal	Regular
2	3BAM-1018 (BW Panel 60, 100/120µF)	60	100/120	10	12	(0-30A)	(0-300V)	Metal	Regular
3	BAM-1508 (BW Panel 60, 100/120µF)	60	100/120	16	16	(0-30A)	(0-300V)	Metal	Regular
4	BAMR-1015 (BW Panel 36, 100/120µF)	36	100/120	10	12	(0-30A)	(0-300V)	Metal	Regular
5	BAMR-1520 (BW Panel 50, 120/150µF)	50	120/150	16	16	(0-30A)	(0-300V)	Metal	Regular
6	BAMR-2030 (BW Panel 90, 150/200µF)	90(45+45)	150/200	16	16	(0-30A)	(0-300V)	Metal	Regular
7	BAMR-3009 (BW Panel 90, 150/200µF)	90(45+45)	150/200	20	25	(0-30A)	(0-300V)	Metal	Regular
8	BAMR-3040 (BW Panel 136, 200/250µF)	136(100+36)	200/250	25	25	(0-30A)	(0-300V)	Metal	Regular
9	VBM72F16R (BW Panel 72,150/200µF)	72	150/200	16A	16A-2P	(0-30A)	(0-300V)	Metal	Regular
10	VBM72E16R (BW Panel 72,120/1500µF)	72	120/150	16A	16A-2P	Digital	Digital	Metal	Regular
11	VBM25D6D (BW Panel 25,100/120µF)	25	100/120	6A	25A- 1P	Digital	Digital	Metal	Regular
12	VBM36D6D (BW Panel 36,100/120µF)	36	100/120	6A	25A- 1P	Digital	Digital	Metal	Regular
13	VBM50D10D (BW Panel 50,100/120µF)	50	100/120	10A	25A- 1P	Digital	Digital	Metal	Regular
14	VBM50E10D (BW Panel 50,120/150µF)	50	120/150	10A	25A- 1P	Digital	Digital	Metal	Regular
15	VBM60D10D (BW Panel 60,100/120µF)	60	100/120	10A	25A- 1P	Digital	Digital	Metal	Regular
16	VBM60D10DE (BW Panel 60,100/120µF)	60	100/120	10A	25A- 1P	Digital	Digital	Metal	Regular
17	VBM60F16D (BW Panel 60,150/200µF)	60	150/200	16A	25A- 1P	Digital	Digital	Metal	Regular
18	VBM72F16D (BW Panel 72,150/200µF)	72	150/200	16A	25A-1P	Digital	Digital	Metal	Regular
19	VBM50E10R2 (BW Panel 50-660V,120/150µF)	50-660V	120/150-440V	10A	12A-4P	(0-30A)	(0-300V)	Metal	Regular
20	VBM75F16R2 (BW Panel 75-660V,150/200µF)	75-660V	150/200-440V	16A	16A-4P	(0-30A)	(0-300V)	Metal	Regular
21	VBM36D6 (BW Panel 36,100/120µF)	36	100/120	6A	Nil	(0-30A)	(0-300V)	Metal	Regular
22	VBM36D10 (BW Panel 36,100/120µF)	36	100/120	10A	Nil	(0-30A)	(0-300V)	Metal	Regular
23	VBM50D10 (BW Panel 50,100/120µF)	50	100/120	10A	Nil	(0-30A)	(0-300V)	Metal	Regular

(1)Applicable for panels with Sheet metal body. (2) Applicable for panels with plastic / ABS body. (3) Applicable for premium borewell submersible pump panels.

Electronic Control Switch								
Sl.No	Model Code	Type	Pipe Size	Type of Mounting	Starting Pressure	Maximum Pressure	Maximum Pump Current	Gross Weight
1	Automatic Pump Controller	VAPC-03	1" BSP	Inline Vertical	1.2 Bar	10 Bar	10 Amps	1 Kg
2	Automatic Pump Controller	VAPC-H	1" BSP	Inline Vertical	1.2 Bar	10 Bar	10 Amps	1 Kg
3	Automatic Pump Controller	VAPC-PRO	1" BSP	Inline Vertical	1.2 Bar	10 Bar	10 Amps	1 Kg

Cable Selection Chart

CABLE SELECTION CHART FOR BOREWELL PUMPS									
Motor Rating		Cable Size in sq.mm							
VOLTS	kW	HP	1.0	1.5	2.5	4.0	6.0	10	
220-240V	0.37	0.5	80	120	190	290	430	780	Maximum Length in Metres
	0.55	0.75	70	105	170	250	380	700	
	0.75	1.0	50	75	125	190	280	520	
	0.93	1.25	45	70	110	170	250	440	
	1.1	1.5	-	65	110	160	240	420	
	1.5	2.0	-	60	100	150	210	380	
	1.86	2.5	-	-	80	120	180	320	
	2.2	3.0	-	-	60	90	140	240	

CABLE SELECTION CHART FOR OPEN WELL PUMPS										
Motor Rating		Cable Size in sq.mm								
VOLTS	kW	HP	1.0	1.5	2.5	4.0	6.0	10		
220-240V	0.37	0.5	90	135	220	330	490	850	Maximum Length in Metres	
	0.55	0.75	7.0	115	190	280	420	730		
	0.75	1.0	60	85	138	210	310	530		
	0.93	1.25	57	80	135	200	300	510		
	1.1	1.5	-	70	115	170	260	440		
	1.5	2.0	-	65	100	150	230	390		
	1.86	2.5	-	-	85	130	190	330		
	2.2	3.0	-	-	65	100	150	260		

Note: * The table states maximum allowable length of three core flat PVC sheathed, submersible copper cables for installation of single phase submersible pumps.
* The Maximum Voltage drop considered here is 20 V.

GENERAL POINTS TO BE CONSIDERED WHILE INSTALLING A PUMP

- Pump should be located as near as possible to the water source.
- Reduce the number of pipe fittings and replace 'elbows' with 'bends' in the pipe connection.
- Minimize the usage of flexible green hose pipes because it causes higher friction loss.
- Use only recommended pipe size. Use ISI marked pipes having minimum friction loss.
- Provide proper shielding for the pump to prevent water entry. Ensure that it does not block the air circulation to the pump.
- Install the pump in a dry place. Do not cover the pump with material such as plastic cover, polyethylene sheet, rubber sheet, canvas clothes, etc., because it can hold moisture. Higher moisture content will lead to burning of windings.
- Do not operate the pump at peak hours/other than recommended voltage range.

- Use proper gauge wire with sufficient length for electrical connection. Avoid excess length of wires otherwise it may cause Voltage drop. Cable joint should be insulated properly and also avoid loose contacts in the joints.
- It is better to use a good motor starter.
- Use ISI marked foot valve with good quality strainer.
- Avoid using of Submersible pumps in plastic tanks, if used it should be properly earthed.

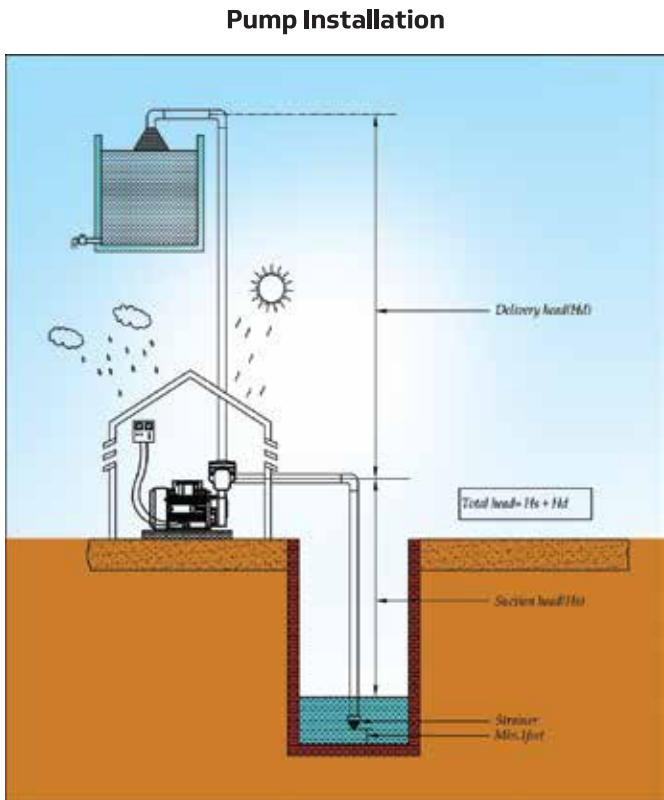
SELECTION OF PUMPS

Before selecting a pump, the **total head** against which the pump has to work must be calculated. The following factors are to be considered while calculating the total head (see fig.).

Suction Head (Hs): The vertical distance between the top of the water level in the well and the center of the pump. While calculating suction head we have to consider the lowest possible water level in the well (lowest level considering the seasonal variations).

Delivery Head (Hd): The vertical distance between the pump side and the top of the delivery pipe i.e., the level at which water is to be delivered.

Friction Head (Hf): The loss due to pipe and pipe fittings must be calculated.



Head loss due to friction at pipe and pipe fittings (HF)	
Pipe lies in a horizontal position	The friction loss will be in the ratio of 10:1 (i.e. for each 10 feet/10 metre of pipe, head loss will be 1 feet/1 metre)
Pipe lies in an inclined position	The friction loss will be in the ratio of 8:1 (i.e. for each 8 feet/8 metre of pipe, head loss will be 1 feet/1 metre)
Bend	The friction loss will be 2 feet for each bend
Elbow	The friction loss will be 3 feet for each elbow

Total head of the pump Hs + Hd + Hf

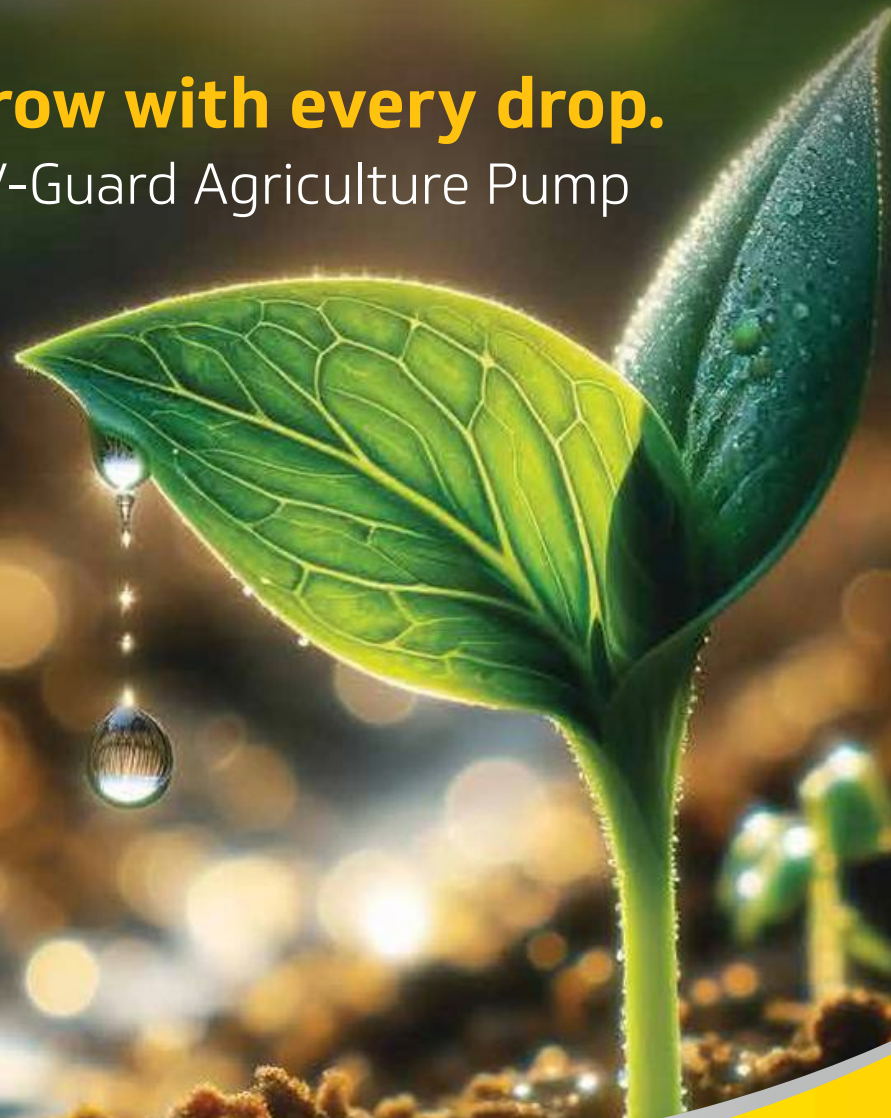
Besides that, we have to consider/check the recommended Voltage range of the pump, in order to suit the voltage availability at site.

CONVERSION CHART	
1 Metre	3.28 feet
1 Foot	0.305 metre
1 Foot	12 inch
1 Inch	25.4 mm
1 Kg/cm ²	10.33 m of water column
1 HP	746 watts
1 Litre	0.001 cubic metre
1 Cubic metre	1000 litre
1 Gallon	3.78 litre
1 PSI	0.0703 kg/cm ²



Grow with every drop.

V-Guard Agriculture Pump



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V-Guard Three Phase Pumps

SRC, VBT, VOT & VCT SERIES

• Smooth • Silent • Efficient



ASSURED QUALITY
VIA STRINGENT
QA PROCESS



WIDE VOLTAGE
RANGE OPERATION



99.9% COPPER
MOTOR WINDING



GUARANTEED
PERFORMANCE

6" RADIAL FLOW BORE WELL SUBMERSIBLE PUMPSET (SRC SERIES - WATER COOLED)

Specifications : • Version: Three phase 50Hz. AC Supply. • Working Voltage Range: 300V - 440V **
• Type of Duty : S1 (Continuous) • Maximum Liquid temperature : 35°C. I Speed : 2800 RPM

PRODUCT FEATURES

Water cooled water lubricated Electric Motor as prime mover. • High quality Electrical grade Stamping used as Motor Core. • Copper Winding Wire with high quality three layer insulation wrapping. • Stainless Steel Motor Body to prevent rust formation. • Specially designed Pressure Diaphragm to compensate excess pressure generated inside the motor. • Diffusers and Housings made from high grade Cast Iron. • Specially designed fixed type SS Thrust Bearing. • High quality Carbon impregnated polymer Thrust Pad with Stainless steel base for longer life. • Special grade LTB-4 Bushes used inside the Motor for high wear-resistance and longer life. • Higher Operating Efficiency & Low Maintenance cost.

Applications: Water supply for industrial establishment, Irrigation of farms, Agriculture use, Use at construction sites, Water supply to high rise buildings.



SRC

Model	Stages	Capacity		Pipe Size	Rated Current	Panel Suggested		Performance Chart							
		HP	kW	(cm)	(A)			Discharge in LPM							
								480	450	400	350	300	230	160	0
SRC-0505	5	5.0	3.7	5.0	10.9	D.O.L.	Head in Meter	14	20	30	40	46	54	59	65
SRC-0606	6	6.0	4.5	5.0	13.0	D.O.L.		17	24	36	48	55	65	70	78
SRC-7508	8	7.5	5.5	5.0	15.5	D.O.L.		22	32	48	64	74	85	95	104
Model	Stages	Capacity		Pipe Size	Rated Current	Panel Suggested		Performance Chart							
		HP	kW	(cm)	(A)			Discharge in LPM							
								400	340	310	280	240	180	130	0
SRC-0506	6	5.0	3.7	5.0	10.9	D.O.L.	Head in Meter	20	37	43	48	55	64	68	75
SRC-10012	12	10.0	7.5	5.0	15.5	D.O.L.		40	74	86	96	110	128	136	150
Model	Stages	Capacity		Pipe Size	Rated Current	Panel Suggested		Performance Chart							
		HP	kW	(cm)	(A)			Discharge in LPM							
								360	330	290	240	200	150	90	0
SRC-0608	8	6.0	4.5	5.0	13	D.O.L.	Head in Meter	28	40	52	64	72	80	86	92
SRC-7510	10	7.5	5.5	5.0	15.5	D.O.L.		35	50	65	80	90	100	108	115
Model	Stages	Capacity		Pipe Size	Rated Current	Panel Suggested		Performance Chart							
		HP	kW	(cm)	(A)			Discharge in LPM							
								300	280	240	190	170	140	75	0
SRC-0508	8	5.0	3.7	5.0	10.9	D.O.L.	Head in Meter	27	33	53	67	72	78	85	90
SRC-0610	10	6.0	4.5	5.0	13	D.O.L.		33	42	67	83	90	98	107	113
SRC-7512	12	7.5	5.5	5.0	15.5	D.O.L.		40	50	80	100	108	117	128	135
SRC-10016	16	10.0	7.5	5.0	21.0	D.O.L.		54	66	106	134	144	156	170	180
SRC-12520	20	12.5	9.3	5.0	27.0	D.O.L.		66	84	134	166	180	196	214	226
Model	Stages	Capacity		Pipe Size	Rated Current	Panel Suggested		Performance Chart							
		HP	kW	(cm)	(A)			Discharge in LPM							
								230	210	180	155	130	100	60	0
SRC-0510	10	5.0	3.7	5.0	10.9	D.O.L.	Head in Meter	30	50	70	83	91	97	101	107
SRC-0612	12	6.0	4.5	5.0	13	D.O.L.		36	60	84	100	110	116	122	128
SRC-7515	15	7.5	5.5	5.0	15.5	D.O.L.		45	75	105	125	137	145	152	160
SRC-10020	20	10.0	7.5	5.0	21.0	D.O.L.		60	100	140	166	182	194	202	214
Model	Stages	Capacity		Pipe Size	Rated Current	Panel Suggested		Performance Chart							
		HP	kW	(cm)	(A)			Discharge in LPM							
								180	160	140	115	105	90	65	0
SRC-0512	12	5.0	3.7	5.0	10.9	D.O.L.	Head in Meter	66	75	85	97	100	105	114	128
SRC-0615	15	6.0	4.5	5.0	13	D.O.L.		83	94	107	122	125	131	143	160
SRC-7518	18	7.5	5.5	5.0	15.5	D.O.L.		99	113	128	146	150	158	171	192
SRC-7520	20	7.5	5.5	5.0	15.5	D.O.L.		110	125	142	162	167	175	190	213

Model	Stages	Capacity		Pipe Size	Rated Current	Panel Suggested	Performance Chart								
		HP	kW	(cm)	(A)			Discharge in LPM							
								180	150	120	95	80	60	30	0
SRC-0308	8	3.0	2.2	5.0	7.1	D.O.L.	Head in Meter	22	36	48	56	60	65	70	73
SRC-0310	10	3.0	2.2	5.0	7.1	D.O.L.		27	45	60	70	75	81	88	92
SRC-0515	15	5.0	3.7	5.0	10.9	D.O.L.		41	68	90	105	113	122	131	137
SRC-0620	20	6.0	4.5	5.0	13	D.O.L.		54	90	120	140	150	162	175	183

**Voltage required at motor input terminal during working time

6” RADIAL FLOW BORE WELL SUBMERSIBLE PUMPSET (VBT6H SERIES)

Specifications : • Version: Three phase 50Hz. AC Supply. • Working Voltage Range: 300V - 440V **
• Type of Duty : S1 (Continuous) • Maximum Liquid temperature : 35°C. • Speed : 2800 RPM

PRODUCT FEATURES

Water filled water cooled Electric Motor as prime mover. • High quality Electrical grade Stamping used as Motor Core.
• High wear resistant LTB-4 Bushes inside the Motor ensures longer life. • SS-202 Motor Body for better cooling and protection.
• 50 Feet per stage pump side design for high head application. • Stainless Steel Diffusers and dynamically balanced SS Impellers. • SS-410 Motor Shaft & dynamically balanced Cu Brazed Rotor. • SS-410 Pump Shaft with Nitrile Rubber and LTB4 Journal Bushes in Pump side for trouble free working in sandy areas. • Higher Operating Efficiency. • Low Maintenance cost.
• Specially designed thrust bearing for lower power consumption. • Double up thrust bearing system in pump side for longer life.

Applications: Water supply for industrial establishment, Irrigation of farms, Agriculture use, Use at construction sites, Water supply to high rise buildings.

Model	Stages	Capacity		Pipe Size	Rated Current	Panel Suggested	Performance Chart									
		HP	kW	(cm)	(A)			Discharge in LPM								
								490	470	420	375	340	300	250	0	
VBT6H-0504	04	5.0	3.7	6.5	12.5	D.O.L.	Head in Meter	16	20	30	36	40	44	48	60	
VBT6H-0605	05	6.0	4.5	6.5	15.3	D.O.L.		20	25	37	45	50	55	60	75	
VBT6H-7506	06	7.5	5.5	6.5	18.0	D.O.L.		24	30	45	54	60	66	72	90	
VBT6H-10008	08	10.0	7.5	6.5	21.3	D.O.L.		32	40	60	72	80	88	96	120	

Model	Stages	Capacity		Pipe Size	Rated Current	Panel Suggested	Performance Chart									
		HP	kW	(cm)	(A)			Discharge in LPM								
								390	360	330	290	260	230	140	0	
VBT6H-0505	05	5.0	3.7	5.0	12.5	D.O.L.	Head in Meter	20	30	40	50	55	60	70	75	
VBT6H-0606	06	6.0	4.5	5.0	15.3	D.O.L.		24	36	48	60	66	72	84	90	
VBT6H-7508	08	7.5	5.5	5.0	18.0	D.O.L.		32	48	64	80	88	96	112	120	
VBT6H-10010	10	10.0	7.5	5.0	21.3	D.O.L.		40	60	80	100	110	120	140	150	

Model	Stages	Capacity		Pipe Size	Rated Current	Panel Suggested	Performance Chart									
		HP	kW	(cm)	(A)			Discharge in LPM								
								285	260	230	205	190	140	90	0	
VBT6H-0506	06	5.0	3.7	5.0	12.5	D.O.L.	Head in Meter	40	50	60	66	70	80	85	90	
VBT6H-0608	08	6.0	4.5	5.0	15.3	D.O.L.		53	66	80	88	93	106	113	120	
VBT6H-7510	10	7.5	5.5	5.0	18.0	D.O.L.		66	83	100	110	116	133	141	150	
VBT6H-10012	12	10.0	7.5	5.0	21.3	D.O.L.		80	100	120	132	140	160	170	180	

Model	Stages	Capacity		Pipe Size	Rated Current	Panel Suggested	Performance Chart									
		HP	kW	(cm)	(A)			Discharge in LPM								
								215	200	180	160	140	120	80	0	
VBT6H-0508	08	5.0	3.7	5.0	12.5	D.O.L.	Head in Meter	50	60	70	80	90	100	110	120	
VBT6H-0610	10	6.0	4.5	5.0	15.3	D.O.L.		62	75	87	100	112	125	137	150	
VBT6H-7512	12	7.5	5.5	5.0	18.0	D.O.L.		75	90	105	120	135	150	165	180	
VBT6H-10016	16	10.0	7.5	5.0	21.3	D.O.L.		100	120	140	160	180	200	220	240	

6” MIXED FLOW BORE WELL SUBMERSIBLE PUMPSET (VBT6M SERIES)

Specifications : • Version: Three phase 50Hz. AC Supply. • Working Voltage Range: 300V - 440V **
• Type of Duty : S1 (Continuous) • Maximum Liquid temperature : 35°C. • Speed : 2800 RPM

PRODUCT FEATURES

• Water cooled water lubricated Electric Motor as prime mover. • High quality Electrical grade Stamping used as Motor Core.
• High wear resistant LTB-4 Bushes inside the Motor ensures longer life. • SS-202 Motor Body for better cooling and protection.
• Dynamically balanced Rotor - vibration free longer life and better Efficiency. • SS-410 Motor Shaft & dynamically balanced Cu Brazed Rotor. • Specially designed Thrust Bearing for lower power consumption. • Higher Operating Efficiency. • Low Maintenance cost & Noise free Operation.

Applications: Water supply for industrial establishment, Irrigation of farms, Agriculture use, Use at construction sites, Water supply to high rise buildings.

Model	Stages	Capacity		Pipe Size	Rated Current	Panel Suggested	Performance Chart									
		HP	kW	(cm)	(A)		Discharge in LPM									
							600	560	520	480	430	360	180	0		
VBT6M-0505	05	5.0	3.7	6.5	11.5	D.O.L.	Head in Meter	16	21	25	29	33	37	41	44	
VBT6M-0606	06	6.0	4.5	6.5	13.5	D.O.L.		20	25	30	35	40	45	50	55	
VBT6M-7508	08	7.5	5.5	6.5	17.0	D.O.L.		27	33	40	47	53	60	67	73	
VBT6M-10010	10	10.0	7.5	6.5	21.3	D.O.L.		32	42	50	58	66	74	82	88	

Model	Stages	Capacity		Pipe Size	Rated Current	Panel Suggested	Performance Chart									
		HP	kW	(cm)	(A)		Discharge in LPM									
							760	710	650	590	510	410	60	0		
VBT6M-0504	04	5.0	3.7	6.5	11.5	D.O.L.	Head in Meter	13	16	20	24	28	32	36	37	
VBT6M-0605	05	6.0	4.5	6.5	13.5	D.O.L.		16	20	25	30	35	40	45	46	
VBT6M-7506	06	7.5	5.5	6.5	17.0	D.O.L.		19	24	30	36	42	48	54	56	
VBT6M-10008	08	10.0	7.5	6.5	21.3	D.O.L.		26	32	40	48	56	64	72	74	

Model	Stages	Capacity		Pipe Size	Rated Current	Panel Suggested	Performance Chart									
		HP	kW	(cm)	(A)		Discharge in LPM									
							830	800	740	650	550	400	200	0		
VBT6M-0503	03	5.0	3.7	7.5	11.5	D.O.L.	Head in Meter	10	12	15	18	21	24	27	28	
VBT6M-0604	04	6.0	4.5	7.5	13.5	D.O.L.		13	16	20	24	28	32	36	38	
VBT6M-7505	05	7.5	5.5	7.5	17.0	D.O.L.		16	20	25	30	35	40	45	47	
VBT6M-10006	06	10.0	7.5	7.5	21.3	D.O.L.		19	24	30	36	42	48	54	57	

Model	Stages	Capacity		Pipe Size	Rated Current	Panel Suggested	Performance Chart									
		HP	kW	(cm)	(A)		Discharge in LPM									
							1000	950	850	750	640	500	300	0		
VBT6M-0603	03	6.0	4.5	10.0	13.5	D.O.L.	Head in Meter	9	12	15	18	21	24	27	30	
VBT6M-7504	04	7.5	5.5	10.0	17.0	D.O.L.		12	16	20	24	28	32	36	40	
VBT6M-10005	05	10.0	7.5	10.0	21.3	D.O.L.		16	20	25	30	35	40	45	50	

4" BORE WELL SUBMERSIBLE PUMPSET
(VBT4 & VBT4M SERIES)

Specifications : • Version: Three phase 50Hz. AC Supply. • Working Voltage Range: 300V - 440V ** • Type of Duty : S1 (Continuous) • Maximum Liquid temperature : 35°C. • Speed : 2800 RPM

PRODUCT FEATURES

Corrosion resistant Stainless Steel Body & Shaft for longer life. • High Electrical and Mechanical Efficiency. • Dynamically balanced Rotor. • Specially designed Thrust Bearing to withstand axial thrust loads. • High efficiency. • Low power consumption. • Injection moulded Noryl Impeller & Diffuser, Cast Iron Bowl* hence consistent in performance.



Model	Stages	Capacity		Pipe Size	Rated Current	Panel Suggested	Performance Chart									
							Discharge in LPH									
		HP	kW	(cm)	(A)		3000	2760	2520	2280	1920	1600	1260	660	0	
VBT4-0230	30	2.0	1.5	3.2	5.2	D.O.L.	Head in Meter	30	45	75	90	120	135	150	180	195

Model	Stages	Capacity		Pipe Size	Rated Current	Panel Suggested	Performance Chart								
							Discharge in LPH								
		HP	kW	(cm)	(A)		9000	8400	8100	7200	6600	5700	4500	0	
VBT4-0316	16	3.0	2.2	4.0	7.5	D.O.L.	Head in Meter	20	32	40	48	60	72	80	96
VBT4-0319	19	3.0	2.2	4.0	7.5	D.O.L.		24	38	48	57	71	85	95	114

Model	Stages	Capacity		Pipe Size	Rated Current	Panel Suggested	Performance Chart									
							Discharge in LPH									
		HP	kW	(cm)	(A)		5700	5400	5100	4500	3900	3300	2700	2100	0	
VBT4-0325	25	3.0	2.2	3.2	7.5	D.O.L.	Head in Meter	20	40	60	80	100	120	140	160	175
VBT4-0330	30	3.0	2.2	3.2	7.5	D.O.L.		24	48	72	96	120	144	168	192	210

Model	Stages	Capacity		Pipe Size	Rated Current	Panel Suggested	Performance Chart												
								Discharge in LPH											
		HP	kW	(cm)	(A)			6000	5500	5100	4500	3900	3300	2700	1800	0			
VBT4-0540	40	5.0	3.7	3.2	11.6	D.O.L.	Head in Meter	32	64	96	128	160	192	224	256	280			

Model	Stages	Capacity		Pipe Size	Rated Current	Panel Suggested	Performance Chart									
							Discharge in LPH									
		HP	kW	(cm)	(A)		9300	8900	8100	7200	5800	4100	3100	0		
VBT4-0527	27	5.0	3.7	4.0	11.6	D.O.L.	Head in Meter	30	50	70	90	120	150	153	162	
VBT4-0530	30	5.0	3.7	4.0	11.6	D.O.L.		34	60	80	100	130	162	167	180	
VBT4-0535	35	5.0	3.7	4.0	11.6	D.O.L.			38	58	79	128	158	180	210	

Model	Stages	Capacity		Pipe Size	Rated Current	Panel Suggested	Performance Chart											
							Discharge in LPM											
		HP	kW	(cm)	(A)		360	330	300	270	240	210	180	150	120	90	0	
VBS4T-0309	09	3.0	2.2	6.5	7.5	D.O.L.	Head in Meter	19	22	25	28	31	33	35	38	40	42	45
VBSJ4T-0312	12	3.0	2.2	6.5	8.5	D.O.L.		24	30	35	39	42.5	46	50	54	57	60	65

Model	Stages	Capacity		Pipe Size	Rated Current	Panel Suggested	Performance Chart												
							Discharge in LPM												
		HP	kW	(cm)	(A)		150	140	135	120	110	95	75	0					
VBS4T-0316	16	3.0	2.2	4.0	7.5	D.O.L.	Head in Meter	20	32	40	48	60	72	80	96				

Model	Stages	Capacity		Pipe Size	Rated Current	Panel Suggested	Performance Chart												
								Discharge in LPM											
		HP	kW	(cm)	(A)			350	325	300	275	250	225	200	175	150	125	75	0
VBT4M-0310	10	3.0	2.2	5.0	7.5	D.O.L.	Head in Meter	28	32	35	37	39	42	44	47	49	51	54	58

OPEN WELL SUBMERSIBLE PUMPSET (VOTCR,VOTCRA, VOTCE & VOTSA SERIES)

Specifications : • Version: Three phase 50Hz. AC Supply. • Working Voltage Range: 300V - 440V ** • Type of Duty : S1 (Continuous) • Maximum Liquid temperature : 35°C. • Speed : 2800 RPM

PRODUCT FEATURES

Water cooled water lubricated Electric Motor as prime mover. • High quality Electrical grade Stamping used as Motor Core. • Dynamically balanced Motor Shaft with Copper/Aluminium die casted Rotor. • Cast Iron/SS Motor Body. • Dynamically balanced Cast Iron radial flow Impeller. • Higher Operating Efficiency. • Low Maintenance cost & Noise free Operation. • Supplied with Strainer.



VOTCRA



VOTSA



VOTCE

Model	Stages	Capacity		Pipe Size	Rated Current	Panel Suggested		Performance Chart							
		HP	kW	(cm)	(A)			Head in Meter							
								15	18	21	24	27	30	33	36
VOTCR-0380	1	3.0	2.2	6.5 x 5.0	7.1	D.O.L.	Discharge in LPM	545	490	428	352	255			
VOTCR-05100	1	5.0	3.7	6.5 x 5.0	10.9	D.O.L.		*	665	610	535	460	395	287	170
VOTCE-0380	1	3.0	2.2	6.5 x 5.0	7.1	D.O.L.		490	435	370	250	120			
VOTCE-05100	1	5.0	3.7	6.5 x 5.0	10.9	D.O.L.		*	625	560	500	416	350	240	120
VOTCRA-0380	1	3.0	2.2	6.5 x 5.0	7.1	D.O.L.	545	490	428	352	255				
VOTCRA-05100	1	5.0	3.7	6.5 x 5.0	10.9	D.O.L.	*	665	610	535	460	395	287	170	

Model	Stages	Capacity		Pipe Size	Rated Current	Panel Suggested	Performance Chart					
		HP	kW	(cm)	(A)		Discharge in LPM	Head in Meter				
	16	19	22	24	26	28						
VOTCR-0580	1	5.0	3.7	7.5 x 6.5	10.9	D.O.L.		650	590	530	440	330
VOTCE-0580	1	5.0	3.7	7.5 x 6.5	10.9	D.O.L.	620	560	500	400	300	0
VOTCRA-0580	1	5.0	3.7	7.5 x 6.5	10.9	D.O.L.	650	590	530	440	330	0

Model	Stages	Capacity		Pipe Size	Rated Current	Panel Suggested	Performance Chart										
								Head in Meter									
		HP	kW	(cm)	(A)			11	20	25	30	35	38	41	43	47	51
VOTCRA-05140	1	5.0	3.7	6.5 x 5.0	10.9	D.O.L.	Discharge in LPM	520	510	500	480	440	400	310	0		
VOTCRA-75150	1	7.5	5.5	6.5 x 5.0	15.8	D.O.L.		*	*	650	590	520	480	430	390	270	0

Model	Stages	Capacity		Pipe Size	Rated Current	Panel Suggested	Performance Chart								
								Head in Meter							
		HP	kW	(cm)	(A)			15	18	21	24	27	30	33	36
VOTSA 0290	1	2.0	1.5	5.0 x 4.0	5.0	D.O.L.	Discharge in LPM	235	215	190	160	130	0		

**Voltage required at motor input terminal during working time *Overloading region



CENTRIFUGAL MONOBLOC PUMPSET (VCT SERIES)

Specifications : • Version: Three phase 50Hz. AC Supply. • Working Voltage Range: 340V - 440V **
• Type of Duty : S1 (Continuous) • Maximum Liquid temperature : 35°C. • Speed : 2800 RPM

COMMON FEATURES

• Rewindable squirrel cage Electric Motor as prime mover. • High quality Electrical grade Stamping used as Motor Core.
• Dynamically balanced Motor Shaft with Aluminium die casted Rotor. • Super enamelled Copper Winding Wire. • Rigid Cast Iron Motor Body. • Totally Enclosed Fan Cooled Motor. • Dynamically balanced Cast Iron radial flow Impeller. • Higher Operating efficiency. • Low maintenance cost & noise free operation.

Model	Stages	Capacity		Pipe Size	Rated Current	Panel Suggested	Performance Chart					
		HP	kW	(cm)	(A)		Discharge in LPM	Head in Meter				
								6	8	10	12	15
VCT-0240	1	2.0	1.5	7.5 x 7.5	3.5	D.O.L.		833	700	583	483	
VCT-0350	1	3.0	2.2	10.0 x 10.0	5.5	D.O.L.	1133	966	633	533		
VCT-0355	1	3.0	2.2	8.0 x 8.0	5.0	D.O.L.		866	766	633	533	

**Voltage required at motor input terminal during working time

The performance data & technical specifications given in this brochure are based on our lab tests conducted at standard conditions & rated voltage of supply and are likely to change with various field conditions. Friction and flow losses in pipe fittings have not been calculated.

As improvements are made in design from time to time, specifications and performance are subjected to change without prior information. For latest details, you may get in touch with our Branches.



V-Guard Electric Motors

Improved efficiency Power packed performance

The most powerful performance in extreme conditions...

V-Guard Motors are designed and developed by V-Guard industries Ltd., the company which has carved a niche for itself in the last 40 years with a wide range of electrical & electronic products that are used and trusted by more than 50 million people across India. V-Guard motors are made from top grade castings & finest components using state-of-the-art technology, to the latest International Standards. Each and every state in the manufacturing process is closely monitored through stringent quality tests to ensure impeccable standards, superior performance and unmatched durability. V-guard motors are available in more than 100 models ranging from 0.25 HP to 3.0 HP in single phase segment and 0.5 HP to 20 HP in three phase segments.



LINE OPERATED THREE PHASE AC MOTORS (IE2)

Three Phase Squirrel Cage

PRODUCT RANGE

Output range	: 0.5 to 20HP (0.37 kW to 15kW)
Frame size	: 71 to 180L
Phase	: Three
No. of pole	: 2/4/6
Insulation	: Class F
Enclosure material	: Cast Iron frame
Type of enclosure	: Totally Enclosed Fan Cooled (TEFC)
Mounting Type	: Foot (B3), Flange (B5), Face (B14) and combinations



SALIENT FEATURES

- Superior Energy Efficient Motor as per IS 12615 – Lower power consumption
- High efficient stator laminations with superior low loss CRNO steel
- Suitable for VFD applications
- Robust & Optimized designs
- Lower heat generation

STANDARDS & REFERENCES

V-Guard 3 Phase Induction motors conform to the following Indian & International standards

Title	Indian Standards	International Standards
Three phase induction motor	: IS : 12615 - 2018	IEC 60034 – 1
Method of determining losses & efficiency	: IS : 15999 - 2011	IEC 60034 – 2
Dimensions & Output for electric machines	: IS : 1231 – 1974	IEC 60072 - 1
	(Foot mounted motors)	
	IS : 2223 – 1983	
	(Flange mounted motors)	
Classification of degree of protection	: IS : 4691 – 1985	IEC 60034 – 5
Noise limit	: IS : 12065 – 1987	IEC 60034 – 9
Vibration limit	: IS : 12075 – 1987	IEC 60034 – 14
Terminal marking & direction of rotation	: IS : 4728 – 1975	IEC 60034 – 8
Symbols of construction and mounting arrangement	: IS : 2253 – 1974	IEC 60034 – 7
Method of Cooling	: IS : 6362 – 1971	



DERATION FOR HIGHER AMBIENT & ALTITUDE

DERATING FACTORS: The deration factors applicable under different conditions are given below:

Operating conditions: 415V ± 10%,50Hz ± 5%

Table A: Permissible output as % of standard output for different Ambient temperatures

40°C	45°C	50°C	55°C	60°C	65°C
100%	100%	92%	85%	78%	70.5%

Table B: Permissible output as % of standard output at different altitude in meters. (Above MSL)

1000m	1500m	2000m	2500m	3000m	3500m	4000m
100%	95%	90%	84%	78%	75%	70%

Table C: Permissible output as % of standard output for different % of unbalance in Voltage

1%	2%	3%	4%	5%
100%	95%	90%	78%	70%

Table D: Permissible output as % of standard output at different voltages

Voltage	100%	90%	85%	80%	70%
40°C Ambient	100%	100%	90%	85%	75%
45°C Ambient	100%	90%	85%	80%	70%

EFFECT OF VARIATION OF VOLATGE AND FREQUENCY ON THE CHARACTERISTICS OF MOTOR

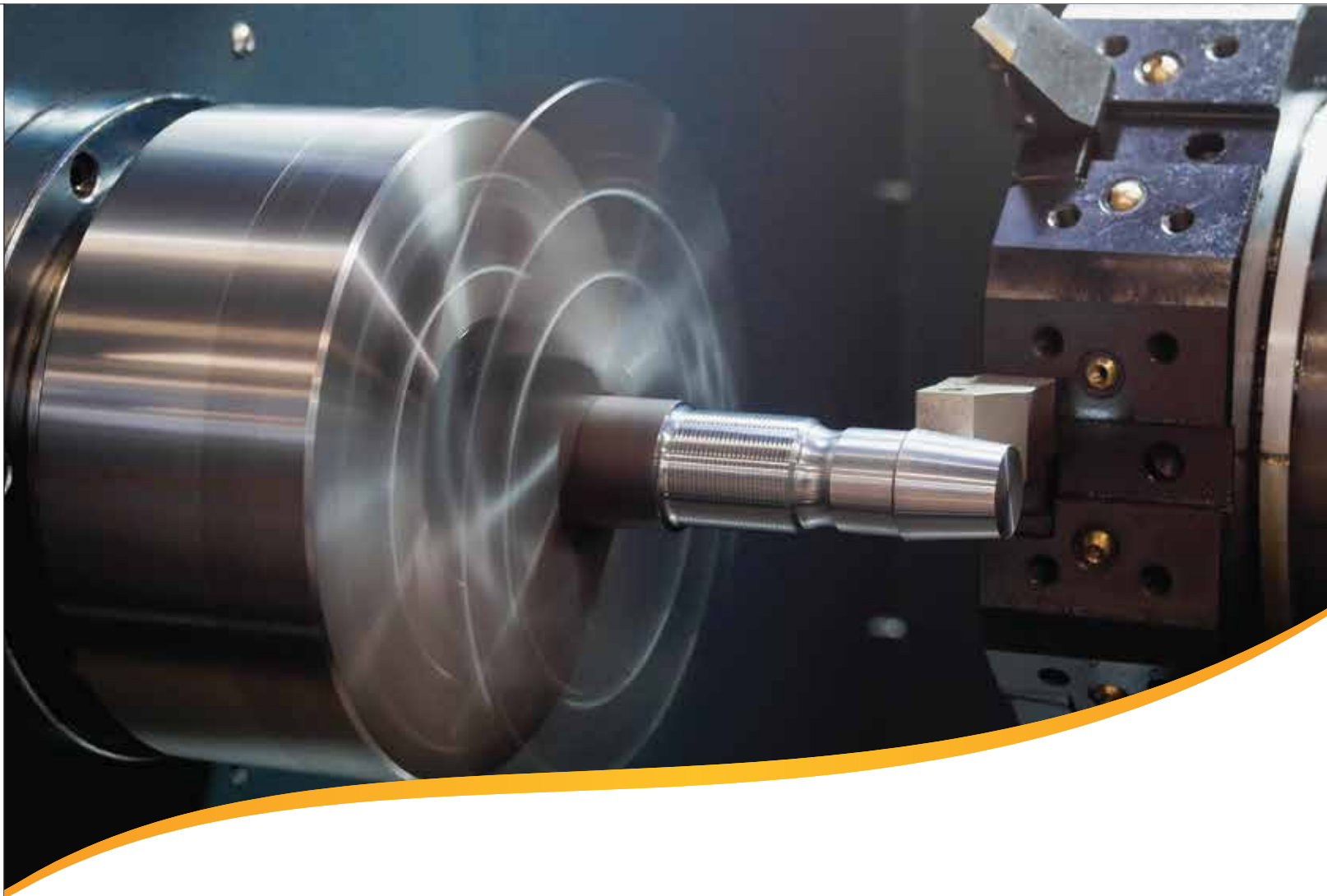
Characteristics	Voltage		Frequency	
	110%	90%	105%	95%
TORQUE Starting & Maximum	Increase 21%	Decrease 19%	Decrease 10%	Increase 11%
SPEED Synchronous Full load	No Change Increase 1%	No Change Decrease 1.5%	Increase 5% Increase 5%	Decrease 5% Decrease 5%
CURRENT No Load Starting Full Load Temp. Rise Overload Capacity Magnetic Noise	Increase 10-15% Increase 10-12% Decrease 7% Decrease 3-4% Increase 21% Slight Increase	Decrease 10-12% Decrease 10-12% Increase 11% Increase 6-7% Decrease 19% Slight Decrease	Decrease 5-6% Decrease 5-6% Slight Decrease Slight Decrease Slight Decrease Slight Decrease	Increase 5-6% Increase 5-6% Slight Increase Slight Increase Slight Increase Slight Increase
EFFICIENCY Full Load	Increase 0.5-1.0%	Decrease 2%	Slight Increase	Slight Decrease
POWER FACTOR	Decrease 3%	Increase 1%	Slight Increase	Slight Decrease

PERMISSIBLE TEMPERATURE RISE

Standard three phase motors are manufactured with Class ‘F’ insulation and temperature rise restricted to Class ‘B’

Class of insulation	Max. Permissible Temp. Limit °C	Max. Permissible temp rise for windings at Amb. Temp. in °C		
		40	45	50
A	105	60	55	50
B	130	80	75	70
F	155	105	100	90
H	180	125	120	115

Temperature rise and maximum temperature at the hottest points of the winding Tmax according to the temperature classes of IEC 600034-1/IS 12615.



↓ 2 nd characteristic numeral	→ 1 st characteristic numeral	Non-protected machine	Machine protected against solid objects greater than 50 mm	Machine protected against solid objects greater than 12 mm	Machine protected against solid objects greater than 2.5 mm	Machine protected against solid objects greater than 1 mm	Dust-protected machine	Dust-tight machines
Non-protected machine		0	1	2	3	4	5	6
Machine protected against dripping water		1						
Machine protected against dripping water when tilted up to 15°		2						
Machine protected against spraying water up to 60°		3						
Machine protected against splashing water		4				IP 44		
Machine protected against water jets		5					IP 55	
Machine protected against heavy seas		6						
Machine protected against the effects of immersion		7						
Machine protected against the effects of continuous submersion		8						

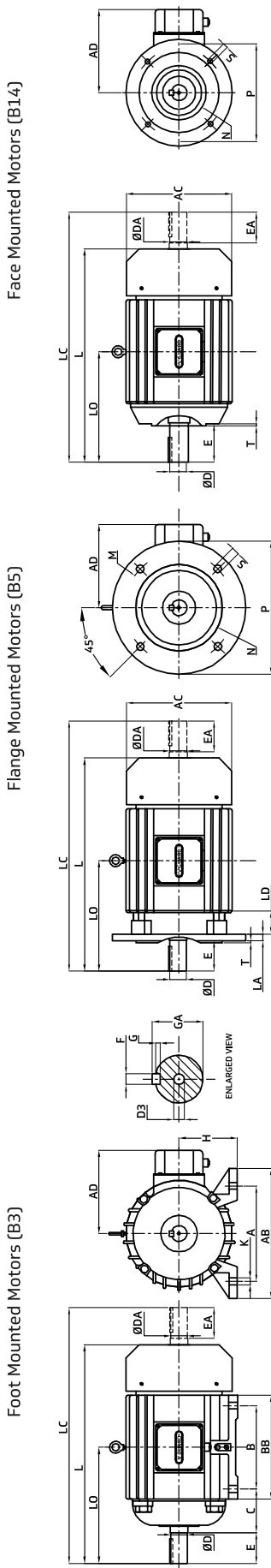




MOUNTING ARRANGEMENTS

Mounting	Foot Mounted	Flange Mounted	Face Mounted	Foot Cum Flange	Foot Cum Face
Basic	B3 /IM 1001	B5 /IM 3001	B14 /IM 3601	B35 / IM 2001	B34 / IM 2101
Variations	B6,B7,B8,V5 & V6	V1 & V3	V18 & V19	V15 & V 36	-
Frames	71 to 200L	71 to 200L	71 to 200L	71 to 200L	71 to 200L

MOUNTING AND OVERALL DIMENSIONS



FRAME SIZE	COMMON DIMENSIONS										FOOT MOUNT (B3)				FLANGE MOUNT (B5)						FACE MOUNT (B14)							
	ØD, ØDA	E, EA	F	GA	G	ØD3	L	LC	LO	AD	ØAC	A	B	C	H	ØK	ØM	ØN	ØP	S	T max.	LD min	ØM	ØN	ØP	ØS	T max.	
63	11j6	23	4	12.5	8.5	M4	208	237	103	93	118	100	80	40	63	7	115	95j6	140	10	3	9	16	75	60	90	M5	2.5
71	14j6	30	5	16	11	M5	253	285	125	115	140	112	90	45	71	7	130	110j6	160	10	3.5	9	16	85	70	105	M6	2.5
80	19j6	40	6	21.5	15.5	M6	280	321	140	126	160	125	100	50	80	10	165	130j6	200	12	3.5	10	20	100	80	120	M6	3
90S	24j6	50	8	27	20	M8	320	358	168	136	178	140	100	56	90	10	165	130j6	200	12	3.5	10	20	115	95	140	M8	3
90L	24j6	50	8	27	20	M8	320	384	168	136	178	140	125	56	90	10	165	130j6	200	12	3.5	10	20	115	95	140	M8	3
100L	28j6	60	8	31	24	M10	375	438	193	150	200	160	140	63	100	12	215	180j6	250	15	4	11	24	130	110	160	M8	3.5
112M	28j6	60	8	31	24	M10	388	454	200	168	225	190	140	70	112	12	215	180j6	250	15	4	11	24	-	-	-	-	-
132S	38k6	80	10	41	33	M12	445	531	239	210	260	216	140	89	132	12	265	230j6	300	15	4	12	24	-	-	-	-	-
132M	38k6	80	10	41	33	M12	483	569	256	210	260	216	178	89	132	12	265	230j6	300	15	4	12	24	-	-	-	-	-
160M	42k6	110	12	45	37	M16	606	724	323	254	320	254	210	108	160	15	300	250j6	350	19	5	13	32	-	-	-	-	-
160L	42k6	110	12	45	37	M16	649	785	355	254	320	254	254	108	160	15	300	250j6	350	19	5	13	32	-	-	-	-	-

Dimensions of foot mounted motors as per IS: 1231-1974, Flange & face mounted motors as per IS: 2223-1983. All dimensions are in mm.



NOMENCLATURE

How to read the model code : VIT4A80-10

Letter	What it means
V	V-Guard
I	Industrial motor
T	Three Phase
2/4/6/8	2-2880RPM; 4-1440RPM; 6-960 RPM 8-740RPM
A/B/C/D/E	A-Foot Mount (B3); B-Flange Mount; C-Face Mount (B14); D-Foot cum flange (B35); E-Foot cum face (B34)
Frame size	63,71,80,90S,90L,100L,112M,132S,132M,160M,160L,200L
Power output	Q-0.25hp; H-0.5hp; TF-0.75 hp10-1hp;15-1.5hp;75-7.5hp;100-10hp;200-20hp

THREE PHASE AC SQUIRREL CAGE INDUCTION MOTORS

Voltage	: 415 Volts ±10%, 3Ø A.C	Frequency	: 50Hz ± 5%
Combined Variation	: ±10%	Ambient temperature	: 40°C
Insulation	: Class 'F'	Winding temperature rise	: Designed to operate within class 'B' limit
Duty	: Continuous (S1)	Protection class	: IP 55
Altitude	: Up to 1000 meters above MSL	Service Factor	: 1.15

PERFORMANCE CHARACTERISTICS OF ENERGY EFFICIENT INDUCTION MOTOR

2 Pole 3000 RPM									
Output		Model*	Frame	FL Speed (rpm)	FL Current (Amps)	FL Torque (kg-m)	TB / T	IB / I	Efficiency [%]
HP	kW								
0.50	0.37	VIT2A71-H	71	2750	1.2	0.13	1.7	6.5	72.2
0.75	0.55	VIT2A71-TF	71	2760	1.6	0.19	1.7	6.5	74.8
1.0	0.75	VIT2A80-10	80	2780	2.0	0.26	1.7	6.5	77.4
1.5	1.1	VIT2A80-15	80	2790	2.8	0.38	1.7	6.5	79.6
2.0	1.5	VIT2A90S-20	90S	2800	3.7	0.52	1.7	6.5	81.3
3.0	2.2	VIT2A90L-30	90L	2810	5.0	0.76	1.7	7.0	83.2
5.0	3.7	VIT2A100L-50	100L	2820	8.0	1.28	1.6	7.0	85.5
7.5	5.5	VIT2A132S-75	132S	2830	11.0	1.89	1.6	7.0	87.0
10.0	7.5	VIT2A132S-100	132S	2840	15.0	2.57	1.6	7.0	88.1
15.0	11.0	VIT2A160M-150	160M	2860	21.5	3.74	1.6	7.0	89.4
20.0	15.0	VIT2A160M-200	160M	2870	29.0	5.09	1.6	7.0	90.3
4 Pole 1500 RPM									
Output		Model*	Frame	FL Speed (rpm)	FL Current (Amps)	FL Torque (kg-m)	TB / T	IB / I	Efficiency [%]
HP	kW								
0.50	0.37	VIT4A71-H	71	1330	1.4	0.27	1.7	6.0	70.1
0.75	0.55	VIT4A80-TF	80	1340	1.7	0.40	1.7	6.0	75.1
1.0	0.75	VIT4A80-10	80	1360	2.2	0.54	1.7	6.0	79.6
1.5	1.1	VIT4A90S-15	90S	1370	2.9	0.78	1.7	6.0	81.4
2.0	1.5	VIT4A90L-20	90L	1380	3.8	1.06	1.7	6.0	82.8
3.00	2.20	VIT4A100L-30	100L	1390	5.1	1.54	1.7	7.0	84.3
5.0	3.7	VIT4A112M-50	112M	1410	8.1	2.55	1.6	7.0	86.3
7.5	5.5	VIT4A132S-75	132S	1420	11.4	3.77	1.6	7.0	87.7
10.0	7.5	VIT4A132M-100	132M	1430	15.4	5.11	1.6	7.0	88.7
15.0	11.0	VIT4A160M-150	160M	1440	22.0	7.44	1.6	7.0	89.8
20.0	15.0	VIT4A160L-200	160L	1440	30.0	10.14	1.6	7.0	90.6
6 Pole 1000 RPM									
Output		Model*	Frame	FL Speed (rpm)	FL Current (Amps)	FL Torque (kg-m)	TB / T	IB / I	Efficiency [%]
HP	kW								
0.50	0.37	VIT6A80-H	80	870	1.4	0.41	1.6	6.0	69.0
0.75	0.55	VIT6A80-TF	80	870	1.9	0.62	1.6	6.0	72.9
1.0	0.75	VIT6A90S-10	90S	890	2.3	0.82	1.6	6.0	75.9
1.5	1.1	VIT6A90L-15	90L	900	3.2	1.19	1.6	6.0	78.1
2.0	1.5	VIT6A100L-20	100L	900	4.0	1.62	1.6	6.0	79.8
3.0	2.2	VIT6A112M-30	112M	910	5.5	2.35	1.5	7.0	81.8
5.0	3.7	VIT6A132S-50	132S	920	8.8	3.91	1.5	7.0	84.3
7.5	5.5	VIT6A132M-75	132M	920	12.7	5.82	1.5	7.0	86.0
10.0	7.5	VIT6A160M-100	160M	930	16.7	7.85	1.5	7.0	87.2
15.0	11.0	VIT6A160L-150	160L	935	23.0	11.45	1.4	7.0	88.7
20.0	15.0	VIT6A180L-200	180L	940	30.5	15.53	1.4	7.0	89.7

All performance figures are subjected to IS: 12615 – 2018, IS: 325 – 1996 & IEC 60034 – 1

* Corresponding Flange & Face Mount models are available with same features

FL Speed : Minimum Speed at Rated Output

FL Torque : Maximum Torque at Rated Output

IB / I : Maximum Breakaway Current in terms of Full load Current

FL Current : Maximum Current at Rated Output

TB / T : Minimum Breakaway Torque in terms of Full load Torque



Single Phase Squirrel Cage



PRODUCT RANGE

Output range	: 0.5 to 3HP (0.37 kW to 2.2kW)
Frame size	: 80 to 112M
Phase	: Single
No. of pole	: 4
Enclosure material	: Cast Iron frame
Type of enclosure	: Totally Enclosed Fan Cooled (TEFC) Drip proof (DP)
Mounting Type	: Foot (B3), Flange (B5), Face (B14) and combinations

SALIENT FEATURES

- Standard designs as per IS, NEMA standards
- Super Enamel coated Copper winding wire
- Single phase motors are fitted with T.O.P.
- Customized motor design capability
- Low maintenance cost

STANDARDS & REFERENCES

V-Guard Single Phase Induction Motors conform to the following Indian & International standards

Title	Indian Standards	International Standards
Single phase induction motors	: IS : 996 – 2009	
Method of determining losses & efficiency	: IS : 7572 – 1974	
Dimensions & Output for electric machines	: IS : 1231 – 1974	IEC 60072 - 1
	(Foot mounted motors)	
	IS : 2223 – 1983	
	(Flange mounted motors)	

NOMENCLATURE

How to read the model code : VIS4A90-HDG

Letter	What it means
V	V-Guard
I	Industrial motor
S	Single Phase
4	1440RPM
A/B/C/D/E	A-Foot Mount (B3); B-Flange Mount (B5); C-Face Mount (B14); D-Foot cum flange (B35); E-Foot cum face (B34)
Frame size	63,71,80,90S,90L,100L,112M
Power output	Q-0.25hp; H-0.5hp;TF-0.75;10-1hp;15-1.5hp;20-2hp; 30-3hp
R, S & D	R-CSR S- CSIR & D -CSCR
X	Heavy duty application



SINGLE PHASE AC SQUIRREL CAGE INDUCTION MOTORS

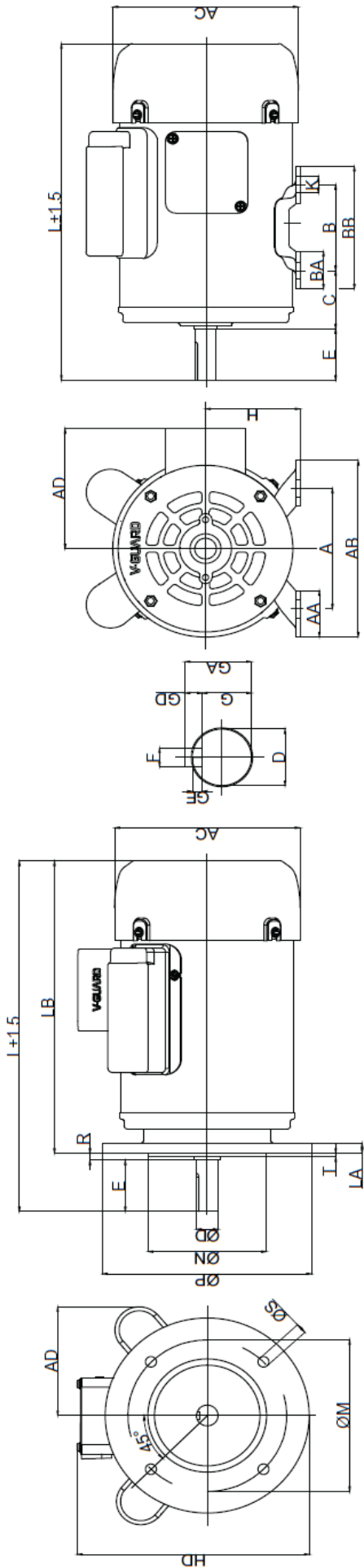
Voltage	: 220 Volts ±10%, 1Ø A.C	Frequency	: 50Hz ± 5%
Combined Variation	: ±10%	Ambient temperature	: 40°C
Insulation	: Class 'B'/'F'	Protection class	: IP 44
Duty	: Continuous (S1)	Direction	: Bi-directional

PERFORMANCE CHARACTERISTICS OF SINGLE PHASE AC SQUIRREL CAGE INDUCTION MOTORS

4 Pole 1500 RPM											
220V, 50Hz Single Phase Motors (CI frame)											
Sl. No	HP	kW	Model	Mounting	Enclosure	Frame	Amps	RPM	Rated Torque	Connection	Insulation
1	0.5	0.37	VIS4A80-HD	Foot	TEFC	80	3	1420	0.25	CSCR	Class 'B'
2	1	0.75	VIS4A90L-10D	Foot	TEFC	90L	6	1440	0.51	CSCR	Class 'B'
3	1	0.75	VIS4A100L-10D	Foot	TEFC	100L	6	1440	0.51	CSCR	Class 'B'
4	1.5	1.1	VIS4A100L-15D	Foot	TEFC	100L	8	1440	0.74	CSCR	Class 'B'
5	2	1.5	VIS4A100L-20DX	Foot	TEFC	100L	12	1420	1.03	CSCR	Class 'B'
6	2	1.5	VIS4A112M-20D	Foot	TEFC	112M	11	1440	1.01	CSCR	Class 'F'
7	3	2.2	VIS4A112M-30D	Foot	TEFC	112M	14	1440	1.49	CSCR	Class 'F'
8	3	2.2	VIS4B112M-30D	Flange	TEFC	112M	14	1440	1.49	CSCR	Class 'F'

All performance figures are subjected to IS: 996-2009
* IP not applicable





Sl.No.	Model	Frame	SHAFT					FOOT					FLANGE					GENERAL												
			ØD	E	ED	F	GD	GA	GE	G	EF	A	B	C	H	K (slot)	ØM	ØN	ØP	R	n	ØS	T	L	LA	HD	AB	AC	AD	BB
1	VIS4BBS6E1-HST	IEC 71	14	30	20	5	5	16	3	11	22.5	-	-	-	-	-	130	110	160	0	4	10	3.5	305	10	190	-	178	115	-
2	VIS4BBS6E1-HDT	IEC 71	14	30	20	5	5	16	3	11	22.5	-	-	-	-	-	130	110	160	0	4	10	3.5	295	10	190	-	178	115	-
3	VIS4BBS6E1-10DT	IEC 80	19	40	28	6	6	21.5	3.5	15.5	31	-	-	-	-	-	165	130	200	0	4	12	3.5	360	11	210	-	178	100	-
4	VIS4B100SE1-20D	IEC 90	24	50	36	8	7	27	4	20	40	-	-	-	-	-	165	130	200	0	4	12	3.5	370	11	225	-	200	100	-
5	VIS4B100SE1-30D	IEC 100	28	60	44	8	7	31	4	24	48	-	-	-	-	-	215	180	250	0	4	14.5	4	395	11	250	-	200	125	-
1	VIS4AB56E1-QRAL	B56	15.875	48	36	5	5	17.8	2.8	12.8	38.5	124	76	70	88.9	9 x 30	-	-	-	-	-	-	-	215	-	168	171	162	115	98.5
2	VIS4AB56E1-HSAL	B56	15.875	48	36	5	5	17.8	2.8	12.8	38.5	124	76	70	88.9	9 x 30	-	-	-	-	-	-	-	255	-	168	171	162	115	98.5
3	VIS4AB56E1-H5	B56	15.875	48	36	5	5	17.8	2.8	12.8	38.5	124	76	70	88.9	9 x 30	-	-	-	-	-	-	-	240	-	168	171	162	115	98.5
4	VIS4AB56E1-10DAL	B56	15.875	48	36	5	5	17.8	2.8	12.8	38.5	124	76	70	88.9	9 x 30	-	-	-	-	-	-	-	325	-	200	171	178	115	98.5
5	VIS4AB56E1-10S	B56	15.875	48	36	5	5	17.8	2.8	12.8	38.5	124	76	70	88.9	9 x 30	-	-	-	-	-	-	-	325	-	200	171	178	115	98.5
6	VIS4AB56E1-10DT	B56	15.875	48	36	5	5	17.8	2.8	12.8	38.5	124	76	70	88.9	9 x 30	-	-	-	-	-	-	-	325	-	200	171	178	115	98.5
7	VIS4AB56E1-10DT	B56	15.875	48	36	5	5	17.8	2.8	12.8	38.5	124	76	70	88.9	9 x 30	-	-	-	-	-	-	-	320	-	200	171	178	115	98.5
8	VIS4A100SE1-15D	100S	24	50	36	8	7	27	4	20	40	160	112	63	100	12 x 17.5	-	-	-	-	-	-	-	325	-	235	200	200	135	140
9	VIS4A100SE1-20DGN	100S	24	50	36	8	7	27	4	20	40	160	112	63	100	12 x 17.5	-	-	-	-	-	-	-	345	-	235	200	200	135	140
10	VIS4A100SE1-20D	100S	24	50	36	8	7	27	4	20	40	160	112	63	100	12 x 17.5	-	-	-	-	-	-	-	345	-	235	200	200	135	140
11	VIS4A100SE1-20DW	100S	24	50	36	8	7	27	4	20	40	160	112	63	100	12 x 17.5	-	-	-	-	-	-	-	345	-	235	200	200	135	140
12	VIS4A100SE1-30D	100S	24	50	36	8	7	27	4	20	40	160	112	63	100	12 x 17.5	-	-	-	-	-	-	-	370	-	235	200	200	135	140
13	VIS4A100SE1-30DW	100S	24	50	36	8	7	27	4	20	40	160	112	63	100	12 x 17.5	-	-	-	-	-	-	-	370	-	235	200	200	135	140
14	VIS4A100SE1-30DGN	100S	24	50	36	8	7	27	4	20	40	160	112	63	100	12 x 17.5	-	-	-	-	-	-	-	375	-	235	200	200	135	140
1	VIS4A80-HD	80	19	40	28	6	6	21.5	3.5	15.5	31	125	100	50	80	10	-	-	-	-	-	-	-	295	-	210	155	160	80	130
2	VIS4A90L-10D	90	24	50	36	8	7	27	4	20	40	140	125	56	90	10	-	-	-	-	-	-	-	320	-	225	170	180	90	146
3	VIS4A100L-10D	100	24	50	36	8	7	27	4	20	40	160	105	63	100	12	-	-	-	-	-	-	-	335	-	215	200	200	150	140
4	VIS4A100L-15D	100	24	50	36	8	7	27	4	20	40	160	105	63	100	12	-	-	-	-	-	-	-	335	-	215	200	200	150	140
5	VIS4A100L-20DX	100	28	60	44	8	7	31	4	24	48	160	140	63	100	12	-	-	-	-	-	-	-	372	-	270	190	200	100	172
6	VIS4A112M-20D	112	24	50	36	8	7	27	4	20	40	190	140	70	112	12	-	-	-	-	-	-	-	380	-	275	270	225	165	235
7	VIS4A112M-30D	112	24	50	36	8	7	27	4	20	40	190	140	70	112	12	-	-	-	-	-	-	-	380	-	275	270	225	165	235
8	VIS4B112M-30D	112	24	50	36	8	7	27	4	20	40	-	-	-	-	-	-	-	-	-	-	-	-	-	290	-	-	-	-	-

Single Phase Commercial Motors



PRODUCT RANGE

Output range	: 0.25 to 3HP (0.18 kW to 2.2kW)
Frame size	: B56 & 100S
Phase	: Single
No. of pole	: 4
Enclosure material	: MS Frame
Type of enclosure	: Totally Enclosed Fan Cooled (TEFC) Drip Proof Fan Cooled (DPFC), Drip Proof (DP)
Mounting Type	: Foot (B3), Flange (B5)

SALIENT FEATURES

- Power packed performance
- Powder coated enclosure

NOMENCLATURE

How to read the model code : VIS4A100SE1-20DW

Letter	What it means
V	V-Guard
I	Industrial motor
S	Single Phase
4	1440RPM
A/B/C/D/E	A-Foot Mount (B3); B-Flange Mount; C-Face Mount (B14); D-Foot cum flange (B35); E-Foot cum face (B34)
Frame size	B48,B56,100S,
E1	E1-Commercial segment code
Power output	Q-0.25hp; H-0.5hp;TF-0.75;10-1hp;15-1.5hp;20-2hp; 30-3hp
R, S & D	R-CSR S- CSIR & D -CSCR
W, AL	W-Wood cutting series motor, AL-Aluminum winding



SINGLE PHASE COMMERCIAL AC SQUIRREL CAGE INDUCTION MOTORS

Voltage	: 220 Volts ±10%, 1Ø A.C	Frequency	: 50Hz ± 5%
Combined Variation	: ±10%	Ambient temperature	: 40°C
Insulation	: Class 'B'/'F'	Direction	: Bi-directional
Duty	: Continuous (S1)		

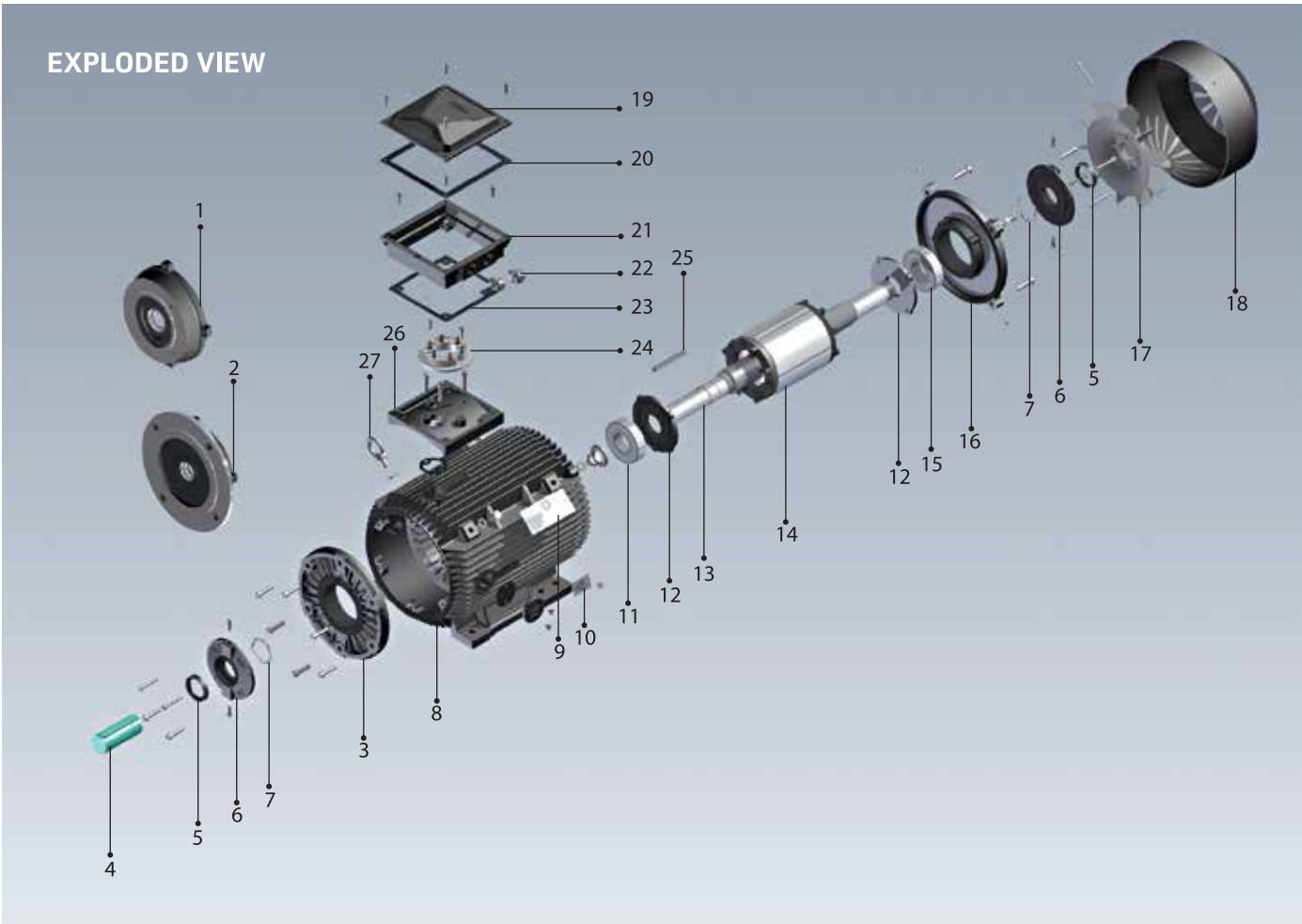
PERFORMANCE CHARACTERISTICS OF SINGLE PHASE COMMERCIAL AC SQUIRREL CAGE INDUCTION MOTORS

4 Pole 1500 RPM											
220V, 50Hz Single Phase Motors (MS Frame, Foot Mounted)											
Sl. No	HP	kW	Model	Mounting	Enclosure	Frame	Amps	RPM	Rated Torque	Connection	Insulation
1	0.25	0.18	VIS4AB56E1-QRAL	Foot	DP	B56	2	1420	0.12	CSR	Class 'B
2	0.5	0.37	VIS4AB56E1-HSAL	Foot	DP	B56	4	1420	0.25	CSIR	Class 'B
3	0.5	0.37	VIS4AB56E1-HS	Foot	DP	B56	4	1420	0.25	CSIR	Class 'B
4	1.0	0.75	VIS4AB56E1-10DAL	Foot	DPFC	B56	6	1420	0.51	CSCR	Class 'B
5	1.0	0.75	VIS4AB56E1-10S	Foot	DPFC	B56	6	1420	0.51	CSIR	Class 'B
6	1.0	0.75	VIS4AB56E1-10D	Foot	DPFC	B56	6	1420	0.51	CSCR	Class 'B
7	1.0	0.75	VIS4AB56E1-10DT	Foot	TEFC	B56	6	1420	0.51	CSCR	Class 'B
8	1.5	1.1	VIS4A100SE1-15D	Foot	TEFC	100S	9	1440	0.74	CSCR	Class 'B
9	2.0	1.5	VIS4A100SE1-20DGN	Foot	TEFC	100S	11	1440	1.01	CSCR	Class 'B
10	2.0	1.5	VIS4A100SE1-20D	Foot	TEFC	100S	11	1440	1.01	CSCR	Class 'F
11	2.0	1.5	VIS4A100SE1-20DW	Foot	TEFC	100S	11	1440	1.01	CSCR	Class 'F
12	3.0	2.2	VIS4A100SE1-30D	Foot	TEFC	100S	14	1440	1.49	CSCR	Class 'F
13	3.0	2.2	VIS4A100SE1-30DW	Foot	TEFC	100S	14	1440	1.49	CSCR	Class 'F
14	3.0	2.2	VIS4A100SE1-30DGN	Foot	TEFC	100S	14	1440	1.49	CSCR	Class 'F

220V, 50Hz Single Phase Motors (MS Frame, Flange Mounted)											
Sl. No	HP	kW	Model	Mounting	Enclosure	Frame	Amps	RPM	Rated Torque	Connection	Insulation
1	0.5	0.37	VIS4AB56E1-HST	Flange	TEFC	IEC 71	4	1420	0.25	CSIR	Class 'B
2	0.5	0.37	VIS4AB56E1-HDT	Flange	TEFC	IEC 71	3	1420	0.25	CSCR	Class 'B
3	1	0.75	VIS4BB56E1-10DT	Flange	TEFC	IEC 80	6	1420	0.51	CSCR	Class 'B
4	2	1.5	VIS4B100SE1-20D	Flange	TEFC	IEC 90	11	1440	1.01	CSCR	Class 'F
5	3	2.2	VIS4B100SE1-30D	Flange	TEFC	IEC 100	14	1440	1.49	CSCR	Class 'F

All performance values are at full load conditions.

Note: As improvements are made in design from time to time, specifications and performance are subjected to change without prior information. For latest details, you may get in touch with our Branches or Service Centres. All pictures shown are for illustration purpose only. Actual product may vary.



LIST OF MOTOR SPARES

1. Face cover (B14)	11. Drive end bearing	21. Terminal box middle
2. Flange cover (B5)	12. Bearing cover inside	22. Cable gland
3. Foot drive end cover (B3)	13. Shaft	23. Terminal box gasket
4. Shaft protection	14. Rotor	24. Terminal connector
5. Oil seal	15. Non-drive end bearing	25. Key
6. Bearing cover outside	16. Back cover	26. Terminal box bottom
7. Wave washer	17. Cooling fan	27. Eye bolt
8. Motor body	18. Fan cover	
9. Nameplate	19. Terminal box top	
10. Earth plate	20. Terminal box gasket lid	

Notes :

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Bring home a better tomorrow
with V-Guard products.



Stabilizer



Water Heater



Fan



Inverter, Battery &
Solar Power System



Solar Water Heater



Pumps & Motors



Wires



MCBs & DBs



Modular
Switches



Mixer Grinder



Induction Stove



Gas Stove



Rice Cooker



Air Cooler



Heat Pump
Water Heaters