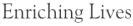


W. R. TALWALKER BROTHERS PVT. LTD.



An ISO 9001:2015 Certified Company Authorised Distributors For Kirloskar Products





Pressure Boosting (Hydro Pneumatic) System

Customised Solutions to Suit the user demand





Hotels



Textiles



Airports



Municipal Corporations



Steel Industry



Metros



Automotive



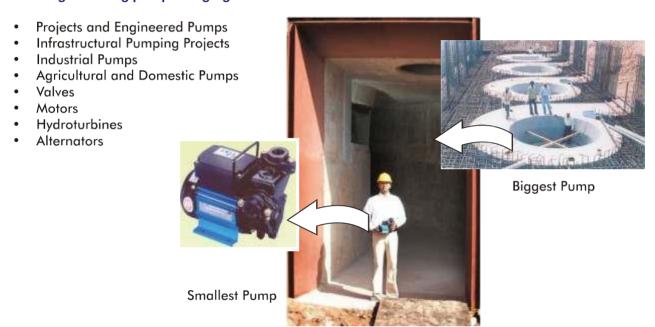
Chemicals



KIRLOSKAR BROTHERS LIMITED

Established 1888 A Kirloskar Group Company Kirloskar Brothers Limited (KBL) is the flagship company of the Kirloskar Group. Established in 1888 and incorporated in 1920, it is known as a leading and innovative solution provider in hydraulic machines and systems the world over. KBL manufacturers rotodynamic pumps from 0.1 kW to 26 mW across its 14 factories on 6 continents. As an ISO 9001, 14001 and OHSAS 18001 company it has robust processes and systems as well modern manufacturing facilities, skilled human resources and significant technical strength in design and application engineering. KBL has in house ferrous and non ferrous foundries as well as one of Asia's largest hydraulic research centre with a testing facility to test pumps up to 50000 m³/hour, 4500 kW motors in both 50 Hz and 60 Hz configurations.

Offering including pumps ranging from 0.1 kW to 26000 kW



KBL's proud manager standing at the discharge pipe of KBL's large pump and holding KBL's smallest pump

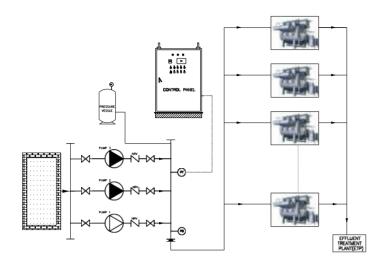


Manufacturing unit at Kirloskarvadi Celebrating 100 Years (1910-2010)



'YAMUNA', Global headquarters of Kirloskar Brothers Limited is among the Greenest Building in India with LEED Certificed Platinum Rating

Segments and Applications



Residential/ Commercial/ Industrial Buildings

Airports

Hotels

Municipal Corporation

Automotive

Textiles

Steel/ Cement/ Process/ Pharma Industries

Power

IT Parks

Hospitals

Sugar Industries

Multiplexes

Bottling Plant

KBL's Comprehensive Solutions for Pressure Boosting Industry

Type of systems

· Constant speed system - Fx1 -

Tank filling, Water transfer, Residential housing, Small size commercial - Residential buildings

Cascade system - MX
 (only 1 VFD common to all pumps) -

Medium size commercial - Residential buildings, Demand based industrial applications

 All pump VFD system - EX (all pumps having their individual VFD) - Townships, Hospitals, Airports, Malls, Metros, Demand based industrial applications



Listed - Packaged Pumping System



Our Offerings

Pumps

Long and short coupled pumps, Single and double suction pumps, Vertical inline multistage pumps, Horizontal multistage pumps and Submersible pumps

Motors

EFF2, EFF1 and premium efficiency

Control Panel

Wall and floor mounted panels

Energy Saving and Efficiency Sustainable Coatings

Glass flake coating on Pumps, Valves, Tanks, Pipes etc.

Accessories

Skid (Suction and Discharge header, NRVs, Isolating valves, Pressure switch/ Pressure transmitter), Pressurized tank, Solenoid valves, Float switches

Service Backup

24x7 Service backup, Energy audit, O and M Contract, etc.

Flexibility in Pump Offering for Pressure Boosting System

Vertical / Horizontal multistage centrifugal pumps



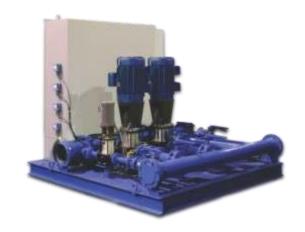
IL / KCIL / KSIL





RKBV

RKB









Specifications and Features

System Head
Liquid Temperature
Frequency

System Flow

Mounting

Pump head and Base

Impeller

Up to 400 m³/ hr
(1760 USgpm)
Up to 240m (788 ft)
(-) 20°C to (+)120°C
50Hz/ 60Hz

Skid/ Customized Mounting CI/ SS

SS304/ SS316 (All wetted parts)

System Fl

System Head Liquid Temperature Frequency

Mounting

Casing

Impeller

Up to 4000 m³/ hr (17600 USgpm) Up to 850m (2788 ft) (-) 20°C to (+)100°C 50Hz/ 60Hz

Skid/ Customized Mounting Cast Iron/ Cast Steel/ CF8M(SS) Cast Iron/ Bronze/ Cast Steel/ CF8M(SS)

Flexibility in Pump Offering for Pressure Boosting System

End Suction Pumps





Monobloc

Split Case Pumps





SCT/ DSM/ i-HT/ UP





Specifications and Features

System Head Liquid Temperature Frequency

Mounting

System Flow

Casing

Impeller

Up to 5000 m³/hr (22000 USgpm) Up to 120m (394 ft) (-) 20°C to (+)100°C 50Hz/60Hz

Skid/ Customized Mounting Cast Iron/ Cast Steel/ CF8M(SS) Cast Iron/ Bronze/ Cast Steel/ CF8M(SS)





System Flow

System Head
Liquid Temperature
Frequency

Mounting

Casing

Impeller

Up to 10000 m³/hr (44000 USgpm) Up to 240m (788 ft) (-) 20°C to (+)100°C 50Hz/60Hz

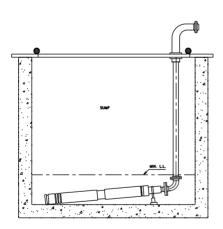
Skid/ Customized Mounting Cast Iron/ Cast Steel/ CF8M(SS) Cast Iron/ Bronze/ Cast Steel/ CF8M(SS)

Flexibility in Pump Offering for Pressure Boosting System

Submersible Pumps



KS/ KU/ HH/ KOS



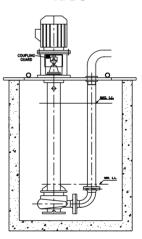
Specifications and Features

System Flow	Up to 150 m ² / hr
	(660 USgpm)
System Head	Up to 178m (584 ft)
Liquid Temperature	(-) 20°C to (+)90°C
Frequency	50Hz
Mounting	Skid/Customized
	Mounting
Pump Housing	SS410
Impeller	Noryl

Wet Pit Pumps



KPDS



System Flow	Up to 4000 m³/ hr
	(17600 USgpm)
System Head	Up to 150m (492 ft)
Liquid Temperature	(-) 20°C to (+)90°C
Frequency	50Hz/60Hz
Mounting	Skid/Customized

3			
	Mounting		
Casing	Cast Iron/ Cast Steel/		
	CF8M(SS)/ Duplex Steel		
Impeller	Cast Iron/Bronze/		
	Cast Steel/ CF8M(SS)		
	Chrome Steel/ Duplex		
	Steel		

ShowerJoy Pressure Boosting System



Single stage

Specification	SJ-42420	SJ-32820	SJ-52820	SJ-42820	SJ-53220
Rating	0.37/0.5	0.55/0.75	0.75/1.0	1.1/1.5	1.1/1.5
Suc/De	25 x 25	25 x 25	25 x 25	25 x 25	25 x 25
Tank Size	20	20	20	20	20
Maximum Head	32	38	40	45	46
Discharge (lpm)	24-40	9-40	30-48	10-40	24-48

Single Stage Booster



Mutistage

0 10 11	01.7000.4140	01.0000.4140	01 (000 (1))
Specification	SJ-72824MS	SJ-83224MS	SJ-63824MS
Rating	0.75/1.0	1.1/1.5	1.1/1.5
Suc/Del	25 x 25	25 x 25	25 x 25
Tank Size	24	24	24
Maximum Head	33	45	46
Discharge (lpm)	35-65	30-72	36-60

Multi Stage Booster

Application

- * High pressure showers/ wall shower panels
- * High pressure supply to Bungalows/small apartments/ hostels/ small hotels
- * Gardening with lawn sprinklers
- * Domestic washing of cars
- * Small farms

Material of construction

Pump Casing	Stainless steel
Impeller	Stainless steel/ Noryl (Multistage)
Mechanical Seal	Carbon/ Ceramic
Pressure switch	Danfos make
Pressure tank	Aluminium

Control Panels





Floor mounted VFD panel for pressure boosting system



Skid mounted VFD panel



Fixed speed panel







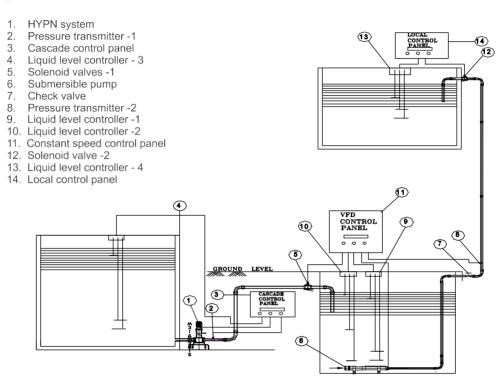
PLC

Salient Features of Control Panel

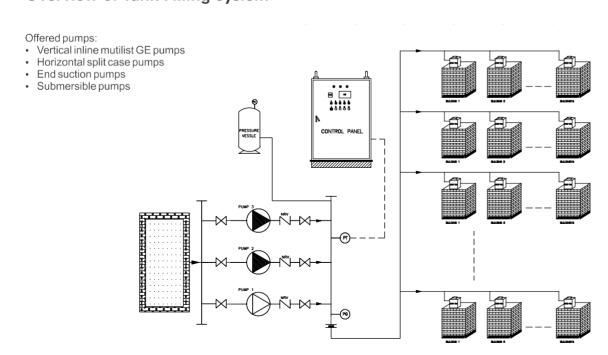
Sr. No.	Feature	All variable speed	Cascade	Fixed speed
1	Pressure control device	Pressure transmitter	Pressure transmitter	Pressure switch
2	Setting of pressure	On HMI	On HMI	On pressure switch
3	Controller	PLC based	PLC based	Microcontroller based
4	Display unit	4 line 20 characters HMI	4 line 20 characters HMI	LED display
5	VFD	All pump	Common to all pump	Not required
6	Rotation of pumps on VFD(Each pump)	\checkmark	\checkmark	Not applicable
7	Bypass of VFD in case of failure	\checkmark	$\overline{\checkmark}$	Not applicable
8	Switchgear	Standard	Standard	Standard
9	Enclosure	Panel IP 42 Eq IP 54 optional	Panel IP 42 Eq IP 54 optional	Dedicated controller In plastic housing
10	Maximum nos. of pumps in parallel operation	Up to 12	Up to 8	Up to 4
11	Pump alternation	\checkmark	\checkmark	\checkmark
12	Standby pump alternation	\checkmark	\checkmark	Not avl
13	Equal running hours of pumps	\checkmark	\checkmark	\checkmark
14	User selectable working and standby pump configuration	\checkmark	V	Not avl
15	Auto Take Over Of Stand By Pump In Case Of Working Pump Failure	\checkmark	\checkmark	\checkmark
16	Alarms and messages. alarm history last 100 faults	On HMI	On HMI	On LED display/ lamp
17	Display of system parameters like set pressure, actual pressure	On HMI	On HMI	On pressure gauge
18	Fixed or rtc based set points	\checkmark	\checkmark	Not avl
19	High pressure cutout	\checkmark	\checkmark	V
20	Dry run protection	\checkmark	\checkmark	V

Tank Filling System: An Emerging Trend

· Schematic Diagram



Overview of Tank Filling System



Major Customers













































W. R. TALWALKER BROTHERS PVT. LTD.

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Authorised Distributors For Kirloskar Products

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