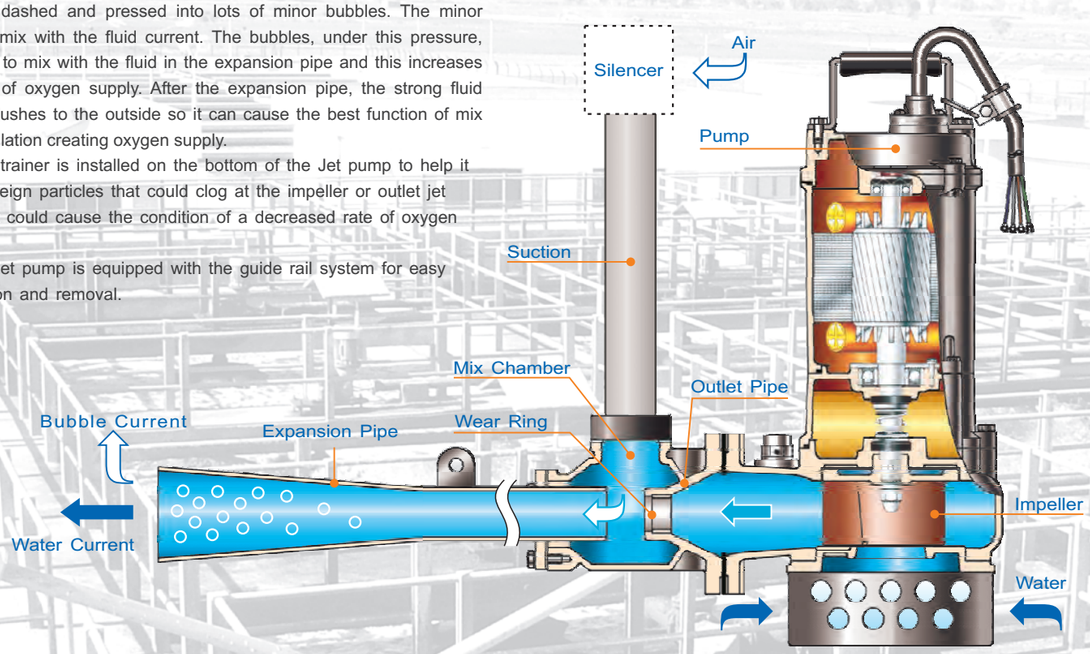
CONSTRUCTION DESCRIPTION

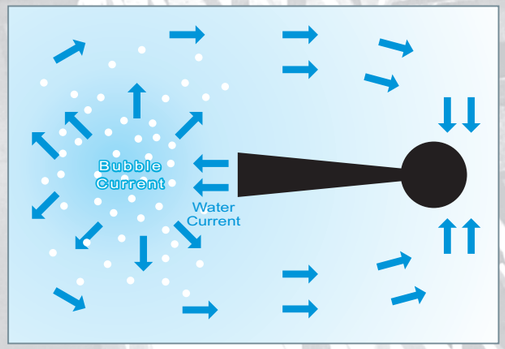
► The impeller of the submersible Jet pump produces a high volume pressure that forces the fluid to pass through the narrow pipe, which in turn, creates the strong jet fluid current and negative pressure. This created negative pressure, compared with the atmosphere's pressure, is what causes it to pull the air into the mix chamber. The air in the mix room is dashed and pressed into lots of minor bubbles. The minor bubbles mix with the fluid current. The bubbles, under this pressure, continue to mix with the fluid in the expansion pipe and this increases the rate of oxygen supply. After the expansion pipe, the strong fluid current flushes to the outside so it can cause the best function of mix and circulation creating oxygen supply.

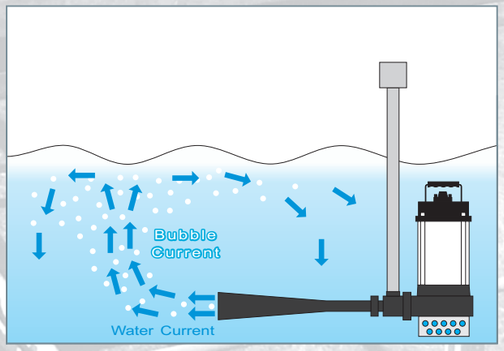
► The strainer is installed on the bottom of the Jet pump to help it avoid foreign particles that could clog at the impeller or outlet jet pipe that could cause the condition of a decreased rate of oxygen supply.

► The Jet pump is equipped with the guide rail system for easy installation and removal.



CURRENT DRAWING

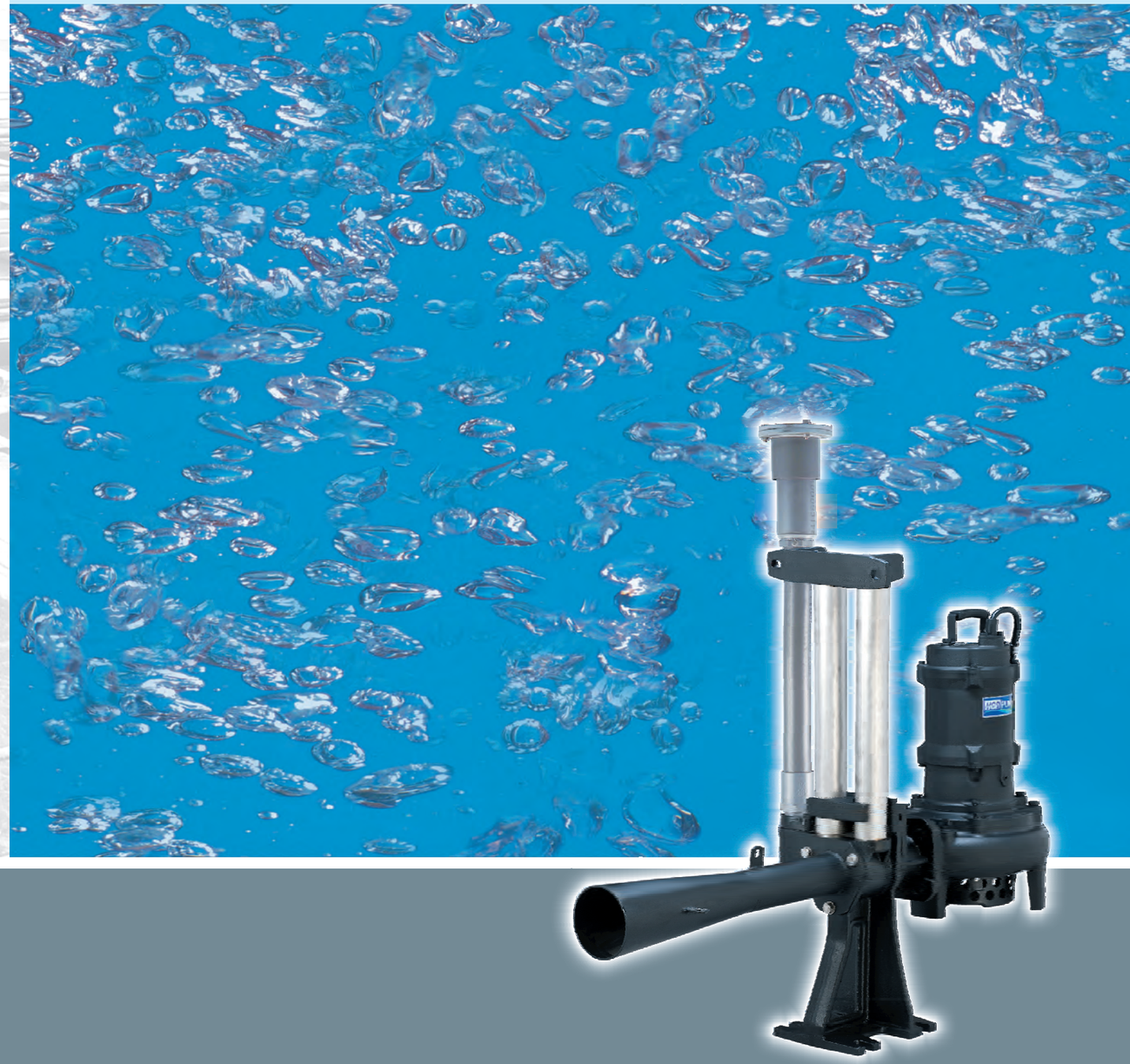




HCP PUMP

50Hz & 60Hz

Innovation • Professionalism • Service



JP/JF SERIES

SUBMERSIBLE EJECTOR PUMPS

AGENT :

Innovation • Professionalism • Service
HCP PUMP MANUFACTURER CO., LTD.

DJJEN0-1102A

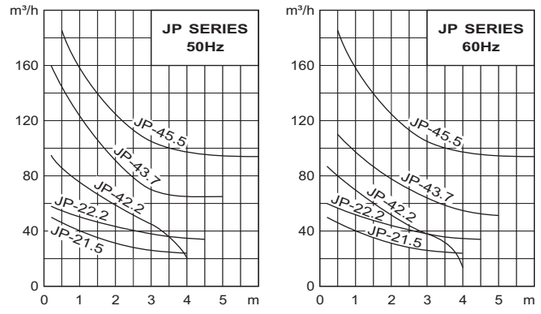
JP SERIES
SUBMERSIBLE EJECTOR PUMPS

■SPECIFICATIONS

Item		Description
Limits Of Use	Liquid Temp.	0~40°C
	Applications	Waste Water • Sewage • Industrial Waste Water
Type	Motor	2P：JP-21.5、JP-22.2 4P：JP-42.2、JP-43.7、JP-45.5 • Dry Motor
	Insulation	½HP ~ 3HP (0.4kW ~ 2.2kW)：Class B 5HP ~ 7.5HP (3.7kW ~ 5.5kW)：Class F
	Protection	IP68
	Protector	Auto-cut
	Bearing	Ball Type
	M.seal	Double M.seals
	Impeller	Semi-open
Material	Upper Cover	FC-200
	Motor Frame	FC-200
	Main Shaft	2P : SUS403 • 4P : 420J2
	M.seal	Upper : Carbon/Ceramic Lower : Silicon/Silicon
	Casing	FC-200
	Impeller	FC-200
	Cable	VCT or H07RN-F or SJOW/SOW
Aerator	Mix Chamber	FC-200
	Wear Ring	SUS304
	Expansion Pipe	SS41
Optional		Pumps can be customized to fit specitications

JP SERIES　　JP SERIES + GRS SERIES

■PERFORMANCE CURVES



■PERFORMANCE SPEC.

50Hz

Model	Power HP (kW)	Suction Pipe mm (inch)	Air Volume (Depth) m³/h (m)	Oxygen Supply kgO²/h	Max Depth (feet)	Capacity m³/h	Solid Passage mm (inch)	Weight - kg(lb) 1Ø	Weight - kg(lb) 3Ø	Tank Max Dimension - m(feet) Length	Width	Height	Accessories Ejector	GRS	Silencer
JP-21.5	2 (1.5)	32 (1½")	26 (3)	1.2~1.4	4 (13')	60	20 (¾")	37(82)	32(71)	4 (13')	4 (13')	4 (13')	J-1¼B	JT-1¼B	1¼"
JP-22.2	3 (2.2)	32 (1½")	38 (3)	1.9~2.2	4.5 (14¾')	66	20 (¾")	39(86)	35(77)	4 (13')	4 (13')	4.5 (14¾')	J-1¼B	JT-1¼B	1¼"
JP-42.2	3 (2.2)	50 (2")	45 (3)	2.2~2.6	4 (13')	66	35 (1½")		62(137)	5 (16½')	5 (16½')	4 (13')	J-2C	JT-2C	2"
JP-43.7	5 (3.7)	50 (2")	70 (3)	2.9~3.4	5 (16½')	95	35 (1½")		71(157)	6 (19¾')	6 (19¾')	5 (16½')	J-2C	JT-2C	2"
JP-45.5	7½ (5.5)	50 (2")	104 (3)	6.1~7.0	6 (19¾')	126	35 (1½")		147(324)	7 (23')	7 (23')	6 (19¾')	J-2D	JT-2D	2"

60Hz

Model	Power HP (kW)	Suction Pipe mm (inch)	Air Volume (Depth) m³/h (m)	Oxygen Supply kgO²/h	Max Depth (feet)	Capacity m³/h	Solid Passage mm (inch)	Weight - kg(lb) 1Ø	Weight - kg(lb) 3Ø	Tank Max Dimension - m(feet) Length	Width	Height	Accessories Ejector	GRS	Silencer
JP-21.5	2 (1.5)	32 (1½")	26 (3)	1.2~1.4	4 (13')	60	20 (¾")	37(82)	32(71)	4 (13')	4 (13')	4 (13')	J-1¼B	JT-1¼B	1¼"
JP-22.2	3 (2.2)	32 (1½")	38 (3)	1.9~2.2	4.5 (14¾')	66	20 (¾")	39(86)	35(77)	4 (13')	4 (13')	4.5 (14¾')	J-1¼B	JT-1¼B	1¼"
JP-42.2	3 (2.2)	50 (2")	38 (3)	1.9~2.2	4 (13')	66	35 (1½")		60(132)	5 (16½')	5 (16½')	4 (13')	J-2C	JT-2C	2"
JP-43.7	5 (3.7)	50 (2")	64 (3)	2.9~3.4	5 (16½')	95	35 (1½")		70(154)	6 (19¾')	6 (19¾')	5 (16½')	J-2C	JT-2C	2"
JP-45.5	7½ (5.5)	50 (2")	105 (3)	6.1~7.0	6 (19¾')	120	35 (1½")		144(317)	7 (23')	7 (23')	6 (19¾')	J-2D	JT-2D	2"

■FEATURE

► Special Mix Chamber design – Provides maximum air suction and produces the maximum amount of small air bubbles, which increases the rate of oxygen supply.

► High Efficiency Sewage Impeller design – Suitable for most all sewage environments.

► Submersible design – The Jet pump runs very quietly while submerged in the water and you can also install the silencer on the air suction pipe to decrease any noise levels. The Jet pump design can save the cost of construction of a silencer room which is required with our GRS (guide rail system) for ease of installation and maintenance.

►Submersible Ejector Pump job site

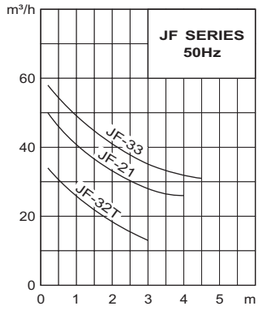
JF SERIES
SUBMERSIBLE EJECTOR PUMPS

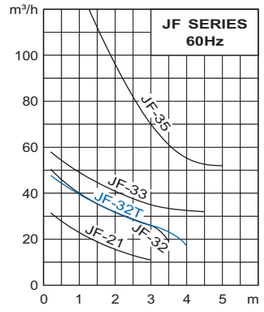
■SPECIFICATIONS

Item		Description
Limits Of Use	Liquid Temp.	0~40°C
	Applications	Waste Water • Sewage • Industrial Waste Water
Type	Motor	2P • Dry Motor
	Insulation	½HP ~ 3HP (0.4kW ~ 2.2kW)：Class B 5HP (3.7kW)：Class F
	Protection	IP68
	Protector	Auto-cut
	Bearing	Ball Type
	M.seal	Double M.seals
	Impeller	Semi-open
Material	Upper Cover	FC-200
	Motor Frame	SUS-304
	Main Shaft	1HP (0.75kW) : SUS410 2HP ~ 5HP (1.5kW ~ 3.7kW) : SUS403
	M.seal	Upper : Carbon/Ceramic Lower : Silicon/Silicon
	Casing	FC-200
	Impeller	FC-200
	Cable	VCT or H07RN-F or SJOW/SOW
Aerator	Mix Chamber	FC-200
	Wear Ring	SUS304
	Expansion Pipe	SS41
Optional		Pumps can be customized to fit specitications

JF SERIES　　JF SERIES + GRS SERIES

■PERFORMANCE CURVES





■PERFORMANCE SPEC.

50Hz

Model	Power HP (kW)	Suction Pipe mm (inch)	Air Volume (Depth) m³/h (m)	Oxygen Supply kgO²/h	Max Depth (feet)	Capacity m³/h	Solid Passage mm (inch)	Weight - kg(lb) 1Ø	Weight - kg(lb) 3Ø	Tank Max Dimension - m(feet) Length	Width	Height	Accessories Ejector	GRS	Silencer
JF-21	1 (0.75)	25 (1")	15.5 (2.5)	0.4~0.5	3 (9¾')	24	20 (¾")	19(42)	18(40)	3 (9¾')	2.5 (8¼')	3 (9¾')	J-1A	JT-1A	1"
JF-32T	2 (1.5)	32 (1½")	28 (3)	1.3~1.5	4 (13')	48	20 (¾")	36(79)	31(68)	4 (13')	4 (13')	4 (13')	J-1¼B	JT-1¼B	1¼"
JF-33	3 (2.2)	32 (1½")	35 (3)	1.6~1.8	4.5 (14¾')	60	20 (¾")	38(84)	32(71)	4 (13')	4 (13')	4.5 (14¾')	J-1¼B	JT-1¼B	1¼"

60Hz

Model	Power HP (kW)	Suction Pipe mm (inch)	Air Volume (Depth) m³/h (m)	Oxygen Supply kgO²/h	Max Depth (feet)	Capacity m³/h	Solid Passage mm (inch)	Weight - kg(lb) 1Ø	Weight - kg(lb) 3Ø	Tank Max Dimension - m(feet) Length	Width	Height	Accessories Ejector	GRS	Silencer
JF-21	1 (0.75)	25 (1")	13 (2.5)	0.4~0.5	3 (9¾')	21	20 (¾")	19(42)	18(40)	3 (9¾')	2.5 (8¼')	3 (9¾')	J-1A	JT-1A	1"
JF-32	2 (1.5)	32 (1½")	26 (3)	1.2~1.4	3.5 (11½')	40	20 (¾")		27(60)	4 (13')	4 (13')	3.5(11½')	J-1¼B	JT-1¼B	1¼"
JF-32T	2 (1.5)	32 (1½")	26 (3)	1.2~1.4	4 (13')	40	20 (¾")	36(79)	31(68)	4 (13')	4 (13')	4 (13')	J-1¼B	JT-1¼B	1¼"
JF-33	3 (2.2)	32 (1½")	35 (3)	1.6~1.8	4.5 (14¾')	54	20 (¾")	38(84)	32(71)	4 (13')	4 (13')	4.5 (14¾')	J-1¼B	JT-1¼B	1¼"
JF-35	5 (3.7)	50 (2")	70 (3)	3.2~3.7	5 (16½')	66	20 (¾")		38(84)	6 (19¾')	6 (19¾')	5 (16½')	J-2C	JT-2C	2"

■APPLICATIONS

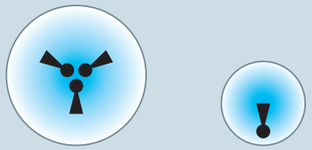
► Living wastewater, manholes, stock farms, wastewater treatment, supplies the oxygen to a slurry treatment tank.

► To produce the water current in fountain pools or water tanks to help avoid accumulation and decay on the bottom of tank and pool.

► Aquaculture farm, oxygen supply for water tank.

■SUGGESTED INSTALLATION DRAWING

►Rectangular Tank



►Circular Tank